UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

EARTHQUAKE DATA REPORT

JANUARY 1991

by

U.S. Geological Survey

NATIONAL EARTHQUAKE INFORMATION CENTER[1]

Open File Report 91-601

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1991

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EDR No. 1-91
Part 1 of 2
P. 1-174

U. S. DEPARTMENT OF THE INTERIOR

Geological Survey

EARTHQUAKE DATA REPORT

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

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

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

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

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

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

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

Hypocenter Symbols

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

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

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

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

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

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

References

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

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

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

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

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

JAN 01, 1991 00h 06m 31.40± 0.91s
18.068 N ± 5.3km 105.847 W ± 4.3km
DEPTH = 35.0 ± 7.2 km
5.5mb (38 obs.) 6.2Msz (27 obs.)
OFF COAST OF JALISCO, MEXICO (54)
Ms 6.6 (BRK). Mo=6.0*10**18 Nm (PPT).
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=203 Dip=83 Slip= 7
NP2: 112 83 173
Principal Axes:
T Plg=10 Azm= 68
P 0 158
Comment: The focal mechanism is poorly controlled and correspands ta strike-slip faulting with a small reverse component. The preferred fault plane is not determined.
RADIATED ENERGY
No. of sta: 4 Focal mech. F
Energy 2.1±0.9*10**14 Nm
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 32C
Centraid Location:
Origin Time 00:06:37.5 0.3
Lat 18.36N 0.03 Lon 106.01W 0.03
Dep 15.0 FIX Half-duration 5.6
Moment Tensor; Scale 10**18 Nm
Mrr= 0.11 0.08 Mtt=-0.49 0.10
Mff= 0.38 0.12 Mrt= 0.00 0.00
Mrf= 0.00 0.00 Mtf=-2.72 0.08
Principal Axes:
T Val= 2.70 Plg= 0 Azm=230
N 0.11 90 180
P -2.80 0 140
Best Double Couple:Mo=2.8*10**18
NP1:Strike=275 Dip=90 Slip=-180
NP2: 5 90 0

MNZ	1.74	55	eP	07	00.00	0.2
			(S)	07	36.00	
AGX	5.05	41	iP	07	48.17	1.4
MZX	5.14	354	iP	07	45.67	-2.3
			iS	08	39.00	
ACX	5.84	101	iP	08	01.94	4.0X
CRX	5.99	76	iP	08	03.65	3.2X
			(S)	09	29.06	
III	6.07	86	iP	08	00.81	-0.6
			iS	09	14.97	
UNM	6.44	78	eP	08	04.00	-2.7X
			(S)	09	46.00	
IIA	6.90	80	iP	08	13.20	0.4
PPM	6.92	81	iP	08	13.67	0.0
IIT	7.21	81	iP	08	19.65	2.1
IISM	8.09	82	iP	08	30.54	1.1
OXX	8.76	95	(P)	08	42.91	4.0X
LVVM	9.05	78	(P)	08	44.38	1.6
EVV	9.98	86	(P)	08	56.09	0.5
TPX	13.40	102	(P)	09	48.03	6.3X
ALQ	16.82	358	ePc	10	26.70	0.6
	1.3s	817.31nm			5.7mb	
GLA	16.96	333	eP	10	28.00	0.3
IKP	17.21	329	eP	10	33.70	2.8X
BAR	17.51	328	eP	10	35.00	0.4
MEO	17.86	20	iPc	10	37.00	-1.9
CPE	17.89	328	eP	10	42.70	3.5X
PLM	18.15	329	eP	10	43.00	0.4
TPC	18.39	332	eP	10	45.00	-0.5
SCI	18.73	325	eP	10	55.40	5.8X
RVR	18.92	329	eP	10	52.00	0.1
CIS	18.98	326	eP	10	57.80	5.2X
PAS	19.44	328	ePd	10	57.11	-0.8
MWC	19.44	328	eP	10	59.00	0.8
SBB	19.70	330	eP	11	00.00	-0.9
GSC	19.73	333	eP	11	01.00	-0.3
BIX	19.92	24	iP	11	02.00	-1.0
SBC	20.47	326	ePd	11	09.42	0.6
			eS	15	14.66	
CLC	20.52	332	eP	11	08.00	-1.4
ABL	20.52	327	P	11	10.50	0.9
PV09	20.56	353	eP	11	09.90	-0.2
ISA	20.80	330	eP	11	17.00	4.7X
MSU	21.11	346	P	11	15.40	-0.2
BCH	21.23	326	P	11	15.80	-0.9
OLY	21.55	33	P	11	19.20	-0.6
GOL	21.56	1	ePd	11	19.80	-0.4
GLD	21.61	1	P	11	21.00	0.3
PRI	22.27	327	eP	11	28.50	1.4
			epP	11	33.50	18kmX
TNP	22.28	336	P	11	28.80	1.4
FRI	22.46	330	eP	11	28.40	-0.4
			epP	11	33.00	17kmX
BONR	22.62	334	P	11	31.00	0.3
LLA	22.77	327	eP	11	32.90	0.9
PRS	22.78	326	eP	11	32.00	0.0
			epP	11	38.40	23kmX
DUG	22.86	346	P	11	34.80	1.9
PWLA	23.11	40	P	11	33.50	-1.7
CMB	23.61	330	ePc	11	40.57	0.4
			pP	11	45.00	16kmX
CCM	23.66	30	ePc	11	40.92	0.4
			eS	16	02.39	
MHC	23.69	327	eP	11	42.00	1.0
FVM	24.00	31	iPc	11	42.10	-1.7
ELC	24.08	34	P	11	43.00	-1.6
BKS	24.40	327	eP	11	48.30	0.6
	1.1s	333.00nm			5.8mb	
	Z 20s	101.00um			6.3Msz	
	N 20s	44.00um				
	E 20s	155.00um				
			iS	16	20.80	
			e	16	40.00	
			eLQ	17	06.00	
			eLR	18	22.40	
BRK	24.41	327	eP	11	48.80	1.0
			eLR	18	20.00	
ZSP	24.46	327	eP	11	49.60	1.3
PRM	26.35	48	P	12	04.50	-1.6
WDC	26.65	331	eP	12	06.10	-2.7X
UPA	27.10	106	ePc	12	20.00	6.9X
	2.0s	329.41nm			5.6mb	
	Z 20s	28.37um			5.8Msz	
FHC	27.51	329	eP	12	16.70	0.0
LHS	27.66	49	P	12	15.50	-2.6X
LRM	28.21	350	eP	12	23.10	-0.2
BLA	29.36	44	eP	12	32.00	-1.5
	1.3s	0.21nm			2.7mb X	
CLE	31.27	37	iP	12	50.10	-0.1
LON	31.49	339	P	12	52.20	0.0
CBN	31.93	45	eP	12	58.00	1.9
			e	13	36.00	
HOOC	32.08	113	ePd	12	57.02	-0.9
BUGC	32.21	112	ePd	13	01.02	2.1
SES	32.52	354	ePc	13	01.00	-0.1
	1.6s	867.00nm			6.4mb	
PSO	32.64	118	eP	13	04.00	1.0
PURC	32.88	115	ePd	13	03.65	-1.5
SCP	33.02	41	ePc	13	02.60	-3.0X
			ec	13	05.09	
			ec	13	06.91	
			ed	13	11.21	
			ePP	14	02.03	
PNT	33.10	343	eP	13	09.00	2.9X
	1.6s	175.00nm			5.7mb	
WVLY	33.60	38	P	13	09.00	-1.6
BMG	33.74	105	eP	13	12.50	0.3
SDV	35.38	100	eP	13	24.60	-1.8
GMTN	35.42	43	eP	13	25.00	-1.2
PNJ	35.45	43	iP	13	27.60	1.2
TBR	35.53	43	P	13	23.50	-3.6X
EDM	35.57	352	eP	13	26.00	-1.3
TOV	35.89	98	eP	13	29.00	-1.6
FFC	36.71	4	ePc	13	34.20	-2.7X
	1.1s	80.00nm			5.5mb	
RSNY	37.19	38	ePd	13	39.20	-1.9
	1.3s	0.21nm			2.8mb X	
	Z 18s	34.84um			6.2Msz	
HRV	37.93	43	ePc	13	48.22	0.9
			ec	13	51.37	
			ed	13	54.51	
			ed	13	57.82	
			ePP	15	15.90	
			eS	19	47.67	
HBVT	37.96	39	P	13	44.00	-3.5X
BNH	39.17	40	P	13	55.80	-1.9
MIM	40.86	40	P	14	09.80	-1.8
PT10	41.35	134	e(P)	14	15.00	-0.9
NNA	41.37	134	iP	14	15.50	-0.6
	1.4s	104 65nm			5.4mb	
	Z 20s	8.87um			5.6Msz	
			eS	20	32.00	
PAG	42.20	86	eP	14	23.00	0.0
SIT	44.71	338	P	14	50.00	7.3X
	Z 22s	24.19um			6.1Msz	
SCH	47.24	30	ePc	15	04.10	1.2
	1.5s	320.00nm			6.1mb	
ARE	48.18	133	eP	15	14.00	3.0X
ZOBO	50.44	130	Pd	15	25.90	-2.8X
	1.8s	212.12nm			5.8mb	
			S	22	52.00	
			LR	32	52.00	
LPB	50.63	131	P	15	28.00	-2.0
	Z 18s	35.74um			6.4Msz	
			S	22	44.00	
			LQ	29	40.00	
			LR	32	10.00	
CNCB	50.90	131	P	15	30.00	-2.2
KLU	51.70	337	eP	15	33.30	-3.9X
TOA	52.18	337	eP	15	40.10	-0.7
CCH	52.60	130	P	15	40.00	-4.7X
RUV	52.61	234	iP	15	44.00	-0.4
	1.0s	55.00nm			5.5mb	
TPT	52.67	234	iP	15	44.20	-0.6
	1.0s	45.00nm			5.4mb	
VAH	52.83	234	iP	15	45.60	-0.4
	1.0s	45.00nm			5.4mb	
PMO	52.89	234	iP	15	46.20	-0.3
	1.0s	55.00nm			5.5mb	
PMR	52.99	336	eP	15	45.50	-1.2
	2.1s	********nm			8.0mb X	
	Z 20s	10.50um			5.9Msz	
INK	53.17	348	eP	15	45.00	-2.9X
	1.3s	181.00nm			5.9mb	
COL	54.51	340	ePc	15	58.07	0.3
			ed	16	02.54	
			ePcP	17	07.37	
			ePP	17	59.24	
			iS	23	43.23	
FBA	54.51	340	ePc	15	56.10	-1.7
	1.2s	0.08nm			2.6mb X	
SVW	55.40	333	eP	16	01.10	-3.3X
SDN	55.43	326	P	16	10.00	5.4X
	Z 18s	4.76um			5.6Msz	
SIV	55.59	125	P	16	02.70	-3.6X
TVO	55.60	233	iP	16	13.30	6.9X
	1.0s	70.00nm			5.6mb	
PPT	55.72	233	iP	16	14.10	6.9X
	1.0s	60.00nm			5.6mb	
AFR	55.85	233	iP	16	14.20	6.1X
	1.0s	55.00nm			5.5mb	
TTA	56.43	335	eP	16	08.90	-3.0X
	1.0s	20.00nm			5.1mb	
IMA	57.18	339	eP	16	14.60	-2.6X
	1.6s	102.46nm			5.6mb	
MBC	58.62	356	ePd	16	24.60	-2.4
	1.2s	159.00nm			6.0mb	
GDH	60.31	19	iPc	16	38.50	-0.2
	1.0s	36.00nm			5.5mb	
			e	20	11.00	
			i	25	00.00	
			i	30	02.00	
ANM	60.90	335	e(P)	16	40.80	-2.0
BRW	60.97	343	e(P)	16	40.40	-2.7X
MDZ	61.79	145	e(P)	16	50.00	0.7
BAO	66.10	117	eP	17	16.50	-1.3
PPD	66.60	125	eP	17	18.90	-1.9
			e	17	27.90	
			e	17	36.00	
SOB1	69.60	107	eP	17	41.40	1.8
LPA	69.61	139	eP-	17	43.00	3.8X
	Z 20s	5.67um			5.8Msz	
			eS	26	54.00	
SMY	69.84	320	P	17	50.00	9.6X
	Z 20s	8.40um			6.0Msz	
BMA	72.64	122	eP	18	06.50	8.6X
AKU	72.78	26	iP	18	03.60	5.8X
	1.5s	144.44nm			5.7mb	
EKA	82.32	34	Pd	18	53.30	2.5X
	4.0s	26.10nm			4.6mb X	
STS	83.10	47	eP	18	56.50	1.4
PTO	83.60	49	eP	19	05.00	7.3X
			e(S)	29	28.50	
ERUA	84.24	47	eP	19	02.00	1.1
MBO	84.61	77	eP	19	11.40	8.3X
			i	29	44.60	
EPLA	85.77	49	eP	19	09.80	1.1
EVAL	86.12	52	eP	19	10.80	0.4
GRR	86.23	40	eP	19	06.30	-4.4X

01d 00h

		1.1s	24.40nm		5.3mb					e	23 24.00			BCAO	120.79	73	iPKPc	25 30.70	8.2X
LPF		86.25	41 eP	19 06.00	-4.8X					e	23 37.00				1.0s		15.00nm		
		1.1s	24.40nm		5.3mb		KHC	94.28	35 P		19 56.50	8.0X					i	25 37.80	
FLN		86.31	40 eP	19 06.80	-4.3X			Z 20s	10.00um		6.3Msz						i	26 50.00	
		1.0s	20.00nm		5.3mb			N 20s	5.00um					CD2	123.60	329	ePKP	25 31.70	4.3X
	Z	19s	19.25um		6.5Msz			E 20s	6.50um						Z 20s		7.40um		6.3Msz
KEV		86.34	15 eP	19 17.00	6.1X					e	23 44.80				N 16s		4.20um		
LDF		86.60	40 eP	19 09.00	-3.5X					e	30 36.00						PP	27 13.00	
		1.1s	14.65nm		5.1mb		PRU	94.31	34 eP		19 53.00	4.4X		MAIO	124.18	14	ePKP	25 29.00	0.5
NB2		86.64	26 P	19 11.60	-0.9			2.0s	58.60nm		5.7mb						e	27 14.00	
		1.4s	39.60nm		5.5mb					e	23 36.00			GYA	125.63	324	PKP	25 30.60	-1.0
GUD		86.95	48 eP	19 14.90	0.4		8HG	94.67	36 eP		19 51.10	0.8		KMI	128.83	326	PKPc	25 44.50	6.6X
AVE		87.04	56 iP	19 19.00	4.0X		CTI	94.86	38 P		19 56.50	5.2X			Z 20s		4.60um		6.2Msz
			i	19 54.00			KMR	95.18	36 iP-		20 01.30	8.7X			N 20s		2.20um		
EHOR		87.16	51 eP	19 26.20	10.8X					i	23 17.60				E 19s		2.00um		
TOL		87.30	49 eP	19 23.00	6.9X		FVI	95.23	37 P		19 54.20	1.4		LSA	129.76	341	PKP	25 47.00	7.1X
			eS	30 08.00			SFI	96.11	40 P		19 57.60	0.7			N 15s		1.20um		
			eSS	35 55.00			VOY	96.18	37 eP		19 56.70	-0.7			E 15s		0.90um		
ECRI		87.37	46 eP	19 15.20	-1.2					e	23 50.10			GUN	132.90	346	PKP	25 44.60	-1.1
SOD		87.96	17 eP	19 14.00	-4.7X		VKA	96.26	35 eP		20 03.00	5.4X		GKN	133.09	347	PKP	25 49.00	3.2X
			i	19 22.40				3.5s	261.00nm		6.1mb X			KKN	133.16	346	PKP	25 46.40	0.3
TIO		87.96	58 iP	19 23.80	4.2X			Z 19s	7.10um		6.2Msz			PKI	133.34	346	PKP	25 44.40	-2.2X
EBAN		88.11	50 e(P)	19 23.00	3.0X					e	23 33.00			NDI	133.43	356	ePKP	25 47.50	1.3
MAL		88.17	52 eP	19 22.00	1.7					i	23 56.50			CHG	135.99	325	ePKP	25 53.00	1.6
			iS	30 00.00						LR	02 16.00			SLR	136.93	109	ePKP	25 58.50	5.3X
			iSS	35 50.00			TRI	96.28	38 iPd		19 59.20	1.5			Z 20s		13.30um		6.7Msz
ETOR		88.36	48 eP	19 19.70	-1.6					ePP	23 56.00			POO	143.63	0	ePKP	26 07.00	1.8
ECOG		88.60	51 eP	19 23.20	0.7					eSKS	30 30.00			SNG	143.78	312	ePKP	26 08.50	3.0X
AFC		88.62	51 e(P)	19 25.80	3.1X					iSP	32 42.00			HYB	144.47	353	ePKP	26 04.00	-2.6X
IFR		88.76	55 iP	19 25.00	1.5					eS$	38 00.00						e	26 10.50	
			i	19 29.00						e	47 00.00			KGM	145.03	302	ePKPd	26 05.00	-2.7X
EVIA		88.87	50 eP	19 24.00	0.2		LJU	96.54	37 e(P)		20 00.30	1.4		IPM	145.23	308	ePKPd	26 07.40	-0.6
RJF		88.97	42 eP	19 19.90	-4.1X		CEY	96.65	38 e(P)		20 00.90	1.5			1.1s		41.80nm		
	Z	19s	17.50um		6.5Msz		ZST	96.72	34 eP		20 01.60	2.0					e	26 15.70	
TCF		88.99	41 eP	19 21.80	-2.3		SOP	96.73	35 e(P)		20 01.00	1.3		CRZF	146.25	152	ePKP	26 21.00	12.3X
WTS		89.10	35 eP	19 25.50	1.1		ARV	97.01	40 P		20 01.90	0.9					eS	49 27.00	
		1.0s	25.00nm		5.5mb		KRA	97.06	32 eP		20 13.30	12.2X		NPA	146.45	90	ePKP	26 13.00	3.0X
			e	19 31.00						e	20 17.30			GBA	148.36	354	PKPd	26 14.10	1.1
			e	22 57.00			VBY	97.26	37 e(P)		20 05.50	3.4X			1.3s		30.60nm		
ENN		89.19	36 eP	19 25.50	0.6		PTJ	97.44	37 eP		20 03.20	0.2		KOD	151.69	353	ePKP	26 25.00	6.5X
		1.0s	41.00nm		5.7mb		ZAG	97.50	37 eP		20 04.20	1.0			S.D. = 1.2		on 145 of 232 obs.		
			e	19 31.50			SRO	97.60	34 eP		20 06.10	2.5X		----------					
MAF		89.24	41 eP	19 24.50	-0.8		AZI	98.13	41 P		20 14.00	8.0X			JAN 01, 1991 00h 11m 13.61± 0.93s					
		1.1s	13.45nm		5.2mb		SDI	98.52	41 P		20 10.00	2.1			35.295 N ± 9.2km 27.813 E ± 4.9km					
BGF		89.27	41 eP	19 24.70	-0.7		MAJO	98.77	313 ePd		20 15.56	6.5X			DEPTH = 42.2 ± 11.0 km					
		1.1s	17.10nm		5.3mb					eSKS	31 13.24				4.9mb (5 obs.)					
SSF		89.46	40 eP	19 25.30	-1.0					eS	31 35.59				DODECANESE ISLANDS					(369)
		1.2s	13.40nm		5.1mb					iP$	33 01.95				MD 4.1 (ATH).					
LOR		89.58	40 eP	19 26.20	-0.7		MAT	98.77	313 (P)		20 14.00	4.9X								
		1.4s	30.50nm		5.4mb			Z 21s	5.73um		6.0Msz			ARG	0.95	15	ePn	11 30.00	-0.7
	Z	19s	11.75um		6.3Msz					eS	32 00.00			KSL	1.66	60	ePn	11 41.60	0.9
LBF		89.78	40 eP	19 27.00	-0.8		SKO	102.97	38 ePdiff		20 32.00	4.3X		NPS	1.80	270	ePn	11 43.50	0.8
		1.1s	12.20nm		5.1mb			Z 18s	8.76um		6.3Msz			YER	1.87	12	iPn	11 43.00	-0.8
BNS		89.80	36 iPd	19 32.00	4.3X			N 17s	5.86um					ELL	2.23	49	ePn	11 49.00	0.0
	Z	22s	13.70um		6.3Msz			E 18s	0.02um					SMG	2.53	342	ePn	11 53.00	-0.1
			i	31 32.50						i	24 38.00			APE	2.56	314	ePn	11 53.50	-0.1
ABH		90.53	36 eP	19 30.56	-0.7					iPP	24 47.00			VAM	2.96	273	ePn	12 00.80	1.6
HAU		90.74	38 eP	19 31.70	-0.5					eSKS	31 09.00			BCK	3.11	45	iPn	12 01.00	-0.5
	Z	18s	27.50um		6.7Msz					iP$	33 57.00			IZM	3.13	352	ePn	12 00.80	-0.9
BSF		91.09	38 eP	19 33.32	-0.6					i	34 47.00			KHL	3.32	24	ePn	12 03.70	-0.7
NUR		92.17	22 eP	19 41.00	2.5X					i	36 25.00			ALT	4.18	25	ePn	12 18.00	1.4
BNI		92.34	41 P	19 43.00	3.2X					i	37 39.00			VLI	4.20	291	ePn	12 16.00	-0.9
MOX		92.38	34 eP	19 48.00	8.3X					iS$	39 11.00			DST	4.35	8	ePn	12 17.50	-1.6
	Z	20s	12.60um		6.4Msz					iS$S	43 23.00			CSS	4.53	93	eP	12 20.70	-0.9
	N	18s	4.70um							i	46 30.00			BNT	5.05	1	ePn	12 22.00	-6.9X
	E	18s	9.60um							LR	07 37.00			ITM	5.12	293	ePn	12 30.00	0.2
CLL		92.76	33 eP	19 40.00	-1.4		OHR	103.13	39 ePdiff		20 30.00	1.5		IZI	5.20	14	ePn	12 31.00	0.0
	Z	17s	7.50um		6.2MszX		BJI	110.18	327 ePKP		24 56.00	-5.4X		YLV	5.40	13	eP	12 36.00	2.1
			ePP	23 24.00						ePP	25 36.00			OHR	8.01	319	eP	13 13.50	3.1X
GRB1		93.08	35 iPc	19 43.60	0.7		TIY	113.86	328 ePKP		25 08.00	-0.7		SKO	8.32	325	eP	13 23.80	9.2X
		2.5s	97.00nm		5.8mb			Z 21s	5.40um		6.1Msz			VOY	15.03	320	eP	14 46.00	1.2
	Z	20s	11.00um		6.3Msz			N 16s	4.10um					KHC	17.34	327	eP	15 13.50	-0.6
			e	19 49.40			WMQ	117.18	349 ePKP		25 15.50	0.7		CLL	19.24	331	e(P)	15 45.00	8.0X
VAI		93.23	40 P	19 46.00	2.4			Z 32s	8.50um		6.2MszX			TIC	41.50	234	(P)	18 55.90	-2.6
BRG		93.50	33 eP	19 51.00	6.2X			E 16s	9.30um					GKN	48.36	82	P	19 53.64	0.2
		1.4s	19.00nm		5.3mb					PP	26 32.50				0.9s		12.00nm		4.9mb
			e	20 08.40			GTA	117.99	338 ePKP		25 23.00	6.4X		DMN	48.90	82	P	19 57.94	0.2
			e	21 39.00				8.0s	350.00nm						1.1s		20.00nm		5.0mb
			e	23 04.80				Z 28s	6.60um		6.1MszX			KKN	48.97	82	P	19 58.06	-0.1
			e	23 19.80				E 19s	9.80um						1.0s		12.00nm		4.9mb
			i	32 16.00			WHN	118.10	321 ePKP		25 16.50	-0.3		PKI	49.16	82	P	19 59.56	-0.2
			i	37 12.00			XAN	118.50	327 ePKP		25 24.00	6.4X			1.0s		9.00nm		4.7mb
WET		93.89	35 eP	19 47.40	0.7			N 13s	0.90um					GUN	49.40	82	P	20 03.58	1.9
	Z	18s	14.00um		6.5Msz			E 14s	2.50um						1.4s		30.00nm		5.1mb
SQTA		93.98	37 e(P)	19 48.00	0.7		LZH	119.25	333 ePKP		25 23.50	4.4X			S.D. = 1.1		on 26 of 30 obs.		
		1.5s	47.50nm		5.7mb			Z 22s	8.00um		6.3Msz			----------					
			i	19 54.60				N 19s	13.10um					? JAN 01, 1991 02h 03m 03.98± 1.15s					

10.182 S ±26.0km 78.266 W ±43.1km
DEPTH = 33.0km (normal)
4.2mb (1 obs.)
NEAR COAST OF PERU (115)

PT10	2.27	146	iPc	03 40.00	0.0
			e(S)	04 01.00	
NNA	2.27	142	iP	03 40.00	0.0
	0.6s	49.33nm			
			eS	03 58.50	
ARE	9.08	134	eP	05 37.00	20.9X
ZOBO	11.58	123	P	05 56.00	5.4X
	1.0s	25.00nm		5.3mb	X
			e	28 27.00	
			i	28 32.00	
LPB	11.73	124	eP	06 24.00	31.4X
CNCB	11.97	124	eP	06 06.00	10.1X
SIV	17.71	111	P	07 21.30	11.4X
KIC	75.04	81	(P)	14 44.70	-0.1
YKA	77.72	344	eP	14 58.20	-0.7
	0.5s	1.20nm		4.2mb	
INK	87.39	342	eP	15 48.50	-0.2
MBC	89.60	351	eP	16 00.00	0.9
S.D. = 0.7 on 6 of 11 obs.					

JAN 01, 1991 02h 19m 37.28± 0.38s
18.355 N ± 5.5km 105.788 W ± 4.0km
DEPTH = 33.0km (normal)
5.0mb (21 obs.) 4.5Msz (2 obs.)
OFF COAST OF JALISCO, MEXICO (54)

MZX	4.86	353	iP	20 47.50	-2.4
ACX	5.85	104	(P)	21 03.87	-0.1
CRX	5.88	79	iP	21 05.50	0.8
III	6.00	89	iP	21 05.50	-0.9
PPM	6.82	83	iP	21 18.06	-0.1
IIT	7.12	83	(P)	21 21.65	-0.5
IISM	8.00	84	iP	21 33.88	-0.3
OXX	8.73	97	iP	21 44.50	0.0
LVVM	8.94	80	(P)	21 47.52	0.4
ALO	16.53	358	eP	23 29.50	1.0
ANMO	16.54	358	P	23 29.40	0.9
	1.0s	43.75nm		4.5mb	
GLA	16.73	333	eP	23 31.00	0.1
BAR	17.30	328	eP	23 38.00	0.1
MEO	17.57	20	iPc	23 42.00	0.7
PLM	17.93	329	eP	23 46.00	0.0
TPC	18.17	332	eP	23 49.00	0.3
PEC	18.51	329	P	23 53.20	0.2
RVR	18.70	329	eP	23 55.00	-0.2
MWC	19.23	328	eP	24 01.00	-0.7
SIO	19.25	24	eP	24 02.30	0.5
SBB	19.48	329	eP	24 02.00	-2.5
GSC	19.51	332	eP	24 04.00	-0.8
TUL	19.60	25	eP	24 05.00	-0.7
RLO	20.13	26	eP	24 10.10	-1.2
CLC	20.29	331	eP	24 11.00	-2.1
ABL	20.31	327	P	24 12.50	-1.0
MSU	20.84	346	P	24 19.20	0.2
BCH	21.03	326	P	24 20.00	-0.7
GOL	21.27	1	P	24 23.50	0.1
	1.1s	51.28nm		4.8mb	
OLY	21.28	34	P	24 24.80	1.7
PHAM	21.69	326	P	24 27.00	-0.3
TNP	22.05	335	P	24 31.00	-0.1
	1.0s	29.50nm		4.7mb	
PRI	22.06	326	eP	24 31.50	0.4
FRI	22.24	329	eP	24 32.00	-0.7
BONR	22.38	333	P	24 35.00	0.5
DAU	22.48	349	P	24 36.40	0.9
LLA	22.57	327	eP	24 38.50	2.5
PRS	22.58	326	eP	24 36.70	0.6
DUG	22.59	346	P	24 37.40	1.0
PWLA	22.85	40	P	24 40.00	1.2
CMB	23.39	330	ePd	24 44.30	0.2
GCC	23.43	326	e(P)	24 44.00	-0.4
MHC	23.48	327	eP	24 46.10	1.1
FVM	23.72	31	P	24 48.40	1.2
	0.8s	56.82nm		5.1mb	
ELC	23.81	34	P	24 48.80	0.7
BKS	24.19	327	eP	24 52.70	0.9
	1.5s	86.00nm		5.1mb	
BW06	24.55	353	P	24 54.00	-1.5
	0.8s	21.43nm		4.8mb	
RSCP	24.81	42	P	24 56.40	-1.4
MIN	25.81	331	eP	25 01.70	-5.6X
TKL	26.01	44	P	25 08.40	-0.7
PRM	26.12	49	P	25 09.60	-0.5
LRM	27.94	350	eP	25 27.00	0.1
BLA	29.12	45	P	25 35.40	-1.9
	1.3s	41.67nm		5.0mb	
NEW	31.23	345	P	25 54.40	-1.5
	1.0s	30.00nm		5.1mb	
LON	31.24	339	P	25 57.40	1.3
CBN	31.69	46	eP	26 02.00	1.9
SES	32.24	354	eP	26 06.00	1.2
PNT	32.84	343	eP	26 11.00	1.0
	1.1s	20.00nm		4.9mb	
PNJ	35.21	44	iP	26 34.30	3.9X
TBR	35.28	43	P	26 31.00	-0.1
EDM	35.29	352	ePd	26 30.00	-1.1
TOV	35.88	99	eP	26 37.50	1.0
FFC	36.42	4	iPc	26 39.30	-1.2
	1.2s	36.00nm		5.1mb	
RSNY	36.93	38	P	26 44.00	-1.0
	1.0s	27.11nm		5.1mb	
Z	20s	0.56um		4.4Msz	
HBVT	37.70	39	P	26 52.00	0.6
BNH	38.92	40	P	27 03.00	1.3
NNA	41.53	134	eP	27 20.50	-3.0X
	1.0s	13.00nm		4.6mb	
CBM	42.00	39	P	27 27.00	0.0
YKA	44.52	354	eP	27 44.70	-2.6X
	1.0s	6.60nm		4.4mb	
LPB	50.77	131	P	28 33.00	-4.1X
CNCB	51.04	131	P	28 34.00	-5.3X
TOA	51.94	337	eP	28 44.50	-0.5
CCH	52.74	130	P	28 48.00	-3.9X
PMR	52.76	336	P	28 53.00	2.0
	0.8s	10.34nm		4.8mb	
Z	20s	0.50um		4.6Msz	
RUV	52.82	234	iP	28 52.30	0.2
	1.3s	85.00nm		5.5mb	
TPT	52.88	234	iP	28 52.40	-0.1
	1.3s	40.00nm		5.2mb	
INK	52.91	347	eP	28 50.00	-2.1
VAH	53.04	234	iP	28 53.60	-0.1
	1.3s	40.00nm		5.2mb	
PMO	53.10	234	iP	28 54.30	0.1
	1.3s	40.00nm		5.2mb	
FBA	54.26	339	P	29 02.00	-0.1
SIV	55.71	125	P	29 09.50	-3.8X
TTA	56.20	335	eP	29 13.40	-2.9X
	1.0s	17.50nm		5.0mb	
IMA	56.94	339	eP	29 18.40	-3.2X
	1.2s	14.20nm		4.9mb	
MBC	58.34	356	eP	29 29.50	-1.6
	1.0s	21.00nm		5.2mb	
BAO	66.18	117	eP	30 23.00	-1.4
PPD	66.72	125	eP	30 26.50	-1.1
SOB1	69.63	108	eP	30 43.70	-2.2
GUD	86.71	48	eP	32 20.20	0.7
IFR	88.55	55	iP	32 30.00	1.4
ZST	96.46	34	e(P)	33 08.00	3.5X
SRO	97.34	34	eP	33 10.50	2.0
HYB	144.20	353	ePKP	39 13.00	0.7
IPM	145.10	308	ePKPd	39 15.30	1.4
PSI	147.91	308	ePKPc	39 20.50	2.0X
GBA	148.08	354	PKPd	39 19.80	1.1
	0.9s	2.90nm			
S.D. = 1.1 on 83 of 95 obs.					

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* JAN 01, 1991 03h 03m 05.55± 0.89s
19.177 S ±12.1km 133.740 E ± 7.4km
DEPTH = 10.0km (geophysicist)
NORTHERN TERRITORY, AUSTRALIA (591)

ASPA	4.47	178	eP	04 15.40	0.5
	0.3s	191.40nm			
			S	04 58.80	
OIS	5.69	105	iPc	04 34.20	2.0
			eS	05 32.00	
KNA	5.84	305	eP	04 48.50	14.2X
			eS	06 02.00	
			e	06 41.00	
MTN	6.78	338	eP	05 02.70	15.2X
	0.3s	34.00nm			
			eS	06 26.00	
OLP	12.16	129	eP	06 00.00	-1.8
			eS	08 03.00	
RMO	15.63	120	e(P)	06 47.00	-0.6
			eS	08 12.00	
MEKA	15.84	239	eP	06 50.80	0.5
COOL	16.30	222	eP	06 53.00	-3.1X
KLB	18.98	226	eP	07 36.80	7.3X
MRWA	19.00	235	eP	07 29.30	-0.6
BAL	19.16	230	eP	07 32.00	0.2
NWAO	20.15	224	eP	07 42.00	-0.8
MUN	20.27	228	eP	07 45.00	0.9
DAV	27.31	342	eP	08 52.10	-0.4
S.D. = 1.2 on 10 of 14 obs.					

JAN 01, 1991 03h 19m 35.25± 0.35s
17.951 N ± 5.3km 105.852 W ± 4.8km
DEPTH = 36.4km (3 depth phases)
5.3mb (28 obs.) 5.6Msz (11 obs.)
OFF COAST OF JALISCO, MEXICO (54)
Ms 5.9 (BRK), 5.4 (PAS).
Mo=1.3*10**18 Nm (PPT).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 45C
Centroid Locotion:
Origin Time 03:19:38.6 0.3
Lat 18.37N 0.03 Lon 105.93W 0.03
Dep 15.0 FIX Half-durotion 3.3
Moment Tensor; Scale 10**17 Nm
Mrr=-0.44 0.14 Mtt=-0.71 0.19
Mff= 1.15 0.21 Mrt= 0.00 0.00
Mrf= 0.00 0.00 Mtf=-4.91 0.15
Principol Axes:

T	Val= 5.22	Plg= 0	Azm=230
N	-0.44	90	180
P	-4.78	0	140

Best Double Couple:Mo=5.0*10**17
NP1:Strike=275 Dip=90 Slip=-180
NP2: 5 90 0

AGX	5.14	40	(P)	20 53.58	1.7
MZX	5.25	354	iP	20 50.47	-2.9X
ACX	5.82	100	iP	21 01.80	0.2
CRX	6.03	75	iP	21 06.00	1.3
III	6.08	85	iP	21 05.00	-0.4
PPM	6.95	80	iP	21 17.95	0.2
IIT	7.24	80	(P)	21 22.15	0.5
IISM	8.11	81	iP	21 35.12	1.6
OXX	8.75	94	iP	21 43.00	0.3
ALQ	16.93	358	eP	23 32.00	0.7
	1.5s	194.44nm		5.0mb	
ANMO	16.94	358	P	23 31.60	0.3
GLA	17.07	333	P	23 33.60	0.8
IKP	17.31	330	eP	23 39.20	3.3X
BAR	17.61	328	eP	23 40.00	0.4
MEO	17.97	20	iPd	23 44.20	0.1
CPE	17.98	328	eP	23 47.40	3.2X
PLM	18.25	329	eP	23 48.00	0.4
TPC	18.49	332	eP	23 50.00	-0.5
PEC	18.83	330	P	23 54.10	-0.5
RVR	19.02	329	eP	23 57.00	0.2
PAS	19.53	328	iPd	24 01.00	-1.7
MWC	19.54	328	eP	24 03.00	0.0
SIO	19.64	24	eP	24 01.40	-2.5
SBB	19.80	330	eP	24 05.00	-0.6
GSC	19.84	333	eP	24 04.00	-2.0
TUL	19.99	25	eP	24 05.00	-2.5
ABL	20.62	327	P	24 14.00	-0.3
ISA	20.90	330	eP	24 18.90	1.9
MSU	21.22	346	P	24 20.00	-0.5
BCH	21.33	326	P	24 20.60	-0.8
OLY	21.65	33	P	24 24.00	-0.5
GOL	21.68	1	P	24 26.50	1.4
	1.1s	57.69nm		4.9mb	
GLD	21.73	1	P	24 27.40	1.9
	1.4s	182.43nm		5.3mb	
PHAM	21.99	327	P	24 29.20	1.3
PRI	22.36	327	eP	24 31.80	0.0
TNP	22.39	336	P	24 32.20	0.1
	1.0s	60.00nm		5.0mb	
FRI	22.55	330	eP	24 32.80	-0.7
BONR	22.72	334	P	24 36.10	0.6
DAU	22.87	349	P	24 37.00	0.1
LLA	22.87	327	eP	24 38.00	1.4
PRS	22.88	326	eP	24 36.50	-0.2
DUG	22.97	346	P	24 39.00	1.3
	1.4s	163.19nm		5.3mb	
CMB	23.71	330	eP	24 44.50	-0.3
GCC	23.73	326	eP	24 44.90	0.0
MHC	23.78	327	eP	24 45.50	-0.1
FVM	24.10	31	P	24 47.40	-1.1
ELC	24.18	34	P	24 48.20	-1.1
BKS	24.50	327	iP	24 52.80	0.4

01d 03h

	1.2s	156.00nm		5.4mb		
	Z 20s	31.00um		5.8Msz		
	N 20s	16.00um				
	E 20s	34.00um				
		eS	29 22.00			
		eLQ	30 40.80			
		eLR	31 28.00			
BRK	24.51	327 eP	24 53.00	0.5		
BW06	24.95	354 P	24 55.00	-2.0		
RSCP	25.15	42 P	24 56.30	-2.4		
ORV	25.45	331 eP	25 02.90	1.5		
MIN	26.13	332 eP	25 10.30	2.3		
TKL	26.34	44 P	25 08.50	-1.3		
PRM	26.43	48 P	25 09.80	-0.8		
WDC	26.75	331 eP	25 10.30	-3.1X		
UPA	27.07	106 eP	25 20.20	3.6X		
Z	19s	7.64um		5.3Msz		
LBFM	27.07	333 P	25 15.40	-1.2		
LRM	28.33	350 eP	25 30.10	2.1		
NAV	29.26	44 P	25 36.00	-0.3		
BLA	29.45	44 P	25 37.20	-0.8		
	1.1s	56.25nm		5.2mb		
CLE	31.36	36 iP	25 56.50	1.7		
LON	31.60	339 P	25 58.00	1.2		
NEW	31.60	346 P	25 55.40	-1.4		
	2.0s	270.52nm		5.7mb		
ANCC	31.81	113 eP	25 58.74	-0.3		
BMW	31.87	337 P	26 00.60	1.4		
CLMC	31.90	113 eP	25 59.98	0.0		
CBN	32.02	45 eP	26 01.70	1.2		
HOBC	32.06	111 eP	26 00.31	-1.0		
BUGC	32.17	112 eP	26 02.41	0.2		
SALC	32.22	114 eP	26 03.43	0.7		
DLA	32.26	35 P	26 03.20	0.6		
CUMC	32.26	118 eP	26 03.98	0.5		
DIAC	32.50	113 eP	26 06.13	0.9		
PSO	32.59	118 eP	26 09.00	2.7		
ELF	32.62	34 P	26 05.70	0.0		
SES	32.63	354 ePc	26 07.30	1.5		
	1.6s	275.00nm		5.9mb		
		pP	26 15.00	27km		
SILC	32.67	114 eP	26 08.11	1.2		
PURC	32.83	115 eP	26 08.86	0.4		
PNT	33.21	343 eP	26 13.00	2.2		
BMG	33.71	105 eP	26 16.50	0.8		
SDV	35.37	100 eP	26 30.30	0.4		
PNJ	35.54	43 iP	26 32.10	1.2		
EDM	35.68	352 eP	26 32.00	0.0		
TOV	35.88	98 eP	26 34.50	0.3		
FFC	36.83	4 eP	26 39.00	-2.5		
	1.0s	59.00nm		5.4mb		
RSNY	37.29	38 P	26 43.20	-2.4		
	1.2s	58.31nm		5.3mb		
Z	18s	7.74um		5.5Msz		
HBVT	38.05	39 P	26 51.00	-1.0		
BNH	39.27	40 P	27 02.20	0.0		
PT10	41.27	134 eP	27 20.00	1.1		
NNA	41.29	134 eP	27 18.00	-1.2		
	1.5s	86.11nm		5.3mb		
Z	20s	2.31um		5.0Msz		
CBM	42.35	39 P	27 26.60	-0.9		
YKA	44.92	354 eP	27 45.90	-2.1		
	1.2s	8.80nm		4.5mb		
SCH	47.35	30 eP	28 09.00	1.6		
	1.4s	115.00nm		5.7mb		
		pP	29 59.10	618kmX		
ARE	48.11	133 eP	28 17.00	2.9X		
ZOBO	50.37	130 P	28 30.00	-1.8		
	1.8s	143.10nm		5.7mb		
		S	35 42.00			
		LR	45 00.00			
LPB	50.56	130 P	28 32.00	-1.1		
Z	20s	10.64um		5.9Msz		
		S	35 44.00			
		LQ	42 44.00			
		LR	45 10.00			
CNCB	50.82	131 P	28 34.90	-0.4		
KLU	51.81	337 P	28 43.00	1.3		
TOA	52.29	337 eP	28 44.40	-0.9		
CCH	52.53	130 P	28 46.00	-1.9		
RUV	52.54	234 iP	28 59.00	11.5X		
	1.2s	60.00nm				
TPT	52.59	234 iP	28 59.30	11.3X		
	1.2s	70.00nm				
VAH	52.76	234 iP	29 00.20	11.0X		
	1.2s	45.00nm				
PMO	52.82	234 iP	29 01.20	11.5X		

	1.2s	55.00nm				
PMR	53.10	336 eP	28 50.70	-0.4		
	1.3s	1149.06nm		6.7mb X		
Z	20s	2.00um		5.2Msz		
INK	53.29	348 eP	28 50.00	-2.4		
	1.1s	52.00nm		5.4mb		
FBA	54.61	340 eP	29 00.10	-2.2		
	1.1s	25.00nm		5.2mb		
SIV	55.53	125 P	29 07.50	-2.1		
TTA	56.54	335 eP	29 13.40	-2.9X		
	1.2s	45.45nm		5.4mb		
IMA	57.29	339 eP	29 18.30	-3.4X		
	1.6s	121.72nm		5.7mb		
MBC	58.74	356 eP	29 30.00	-1.5		
	1.2s	55.00nm		5.5mb		
GDH	60.42	19 ePd	29 44.00	0.9		
	1.5s	55.56nm		5.5mb		
		e	33 30.00			
		e	38 10.00			
		e	44 35.00			
BAO	66.05	117 eP	30 21.00	-0.2		
PPD	66.54	125 eP	30 24.50	0.4		
SOB1	69.57	107 eP	30 41.90	-1.2		
SMY	69.93	320 P	30 50.00	5.4X		
Z	20s	2.00um		5.4Msz		
NB2	86.75	26 P	32 15.50	-1.2		
	1.2s	7.80nm		4.8mb		
GUD	87.03	48 eP	32 20.00	1.4		
SOD	88.07	17 P	32 24.00	1.1		
WTS	89.20	35 eP	32 29.00	0.5		
	1.0s	13.00nm		5.2mb		
ENN	89.29	36 eP	32 30.00	1.0		
	1.0s	27.00nm		5.5mb		
		e	32 43.50	45km		
MAF	89.33	41 eP	32 29.70	0.3		
	0.9s	4.90nm		4.8mb		
SSF	89.55	40 eP	32 29.90	-0.5		
	0.9s	6.55nm		4.9mb		
LOR	89.68	40 eP	32 30.60	-0.4		
	1.3s	18.05nm		5.2mb		
Z	18s	2.75um		5.7Msz		
NUR	92.28	22 eP	32 52.00	9.3X		
GRB1	93.17	35 eP	32 48.00	1.0		
	2.3s	93.00nm		5.8mb		
Z	21s	3.20um		5.8Msz		
		e	32 59.70	38km		
ZST	96.82	34 eP	33 06.60	2.9X		
		e	37 02.00			
		e	37 17.40			
PTJ	97.54	37 eP	33 07.50	0.4		
ZAG	97.60	37 eP	33 07.00	-0.3		
SRO	97.70	34 eP	33 10.30	2.6X		
		e	37 13.00			
KIC	98.55	80 (P)	33 25.00	12.9X		
SKO	103.06	38 ePdiff	33 42.00	10.2X		
Z	18s	2.36um		5.7Msz		
N	17s	1.33um				
E	19s	2.00um				
		iPP	37 47.00			
		LR	21 35.00			
LZH	119.35	333 ePKP	38 22.50	-0.5		
ASPA	124.19	253 ePKP	38 28.80	-3.7X		
	2.5s	6.10nm				
GYA	125.72	324 PKP	38 35.60	0.1		
KMI	128.93	326 PKPc	38 54.50	12.7X		
Z	20s	0.90um		5.5Msz		
		pPKP	39 07.50			
HYB	144.59	353 ePKP	39 09.00	-1.5		
IPM	145.30	308 ePKPd	39 13.00	1.2		
		e	39 20.20			
PSI	148.11	308 ePKP	39 18.00	1.6		
GBA	148.48	354 PKP	39 20.00	3.2X		
KOD	151.81	353 ePKP	39 28.00	5.6X		
S.D. = 1.2		on 120 of 142 obs.				

% JAN 01, 1991 03h 51m 06.21± 1.40s
43.243 N ±10.2km 18.992 E ± 7.3km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MD 4.0 (TTG). Felt (V) in northern Montenegro and (III) at Titograd.

PLE	0.31	73 iPg	51 12.70	0.1		
		iSg	51 16.10			
NKY	0.43	179 iPg	51 14.80	-0.2		
		iSg	51 22.00			

BRY	0.47	224 iPg	51 15.80	-0.1		
IVA	0.76	119 iPg	51 20.90	-0.2		
TTG	0.84	166 iPg	51 21.80	-0.6		
		iSg	51 34.40			
HCY	0.87	205 iPg	51 22.90	-0.1		
BDV	0.97	187 iPg	51 24.90	0.3		
PVY	0.97	132 iPg	51 24.80	0.1		
ULC	1.29	171 iPg	51 31.00	0.8		
S.D. = 0.4		on 9 of 9 obs.				

% JAN 01, 1991 04h 18m 08.65± 0.65s
40.446 N ± 5.4km 23.528 E ± 6.1km
DEPTH = 10.0km (geophysicist)
GREECE (364)

OUR	0.36	108 eP	18 16.52	0.4		
SOH	0.40	341 iP	18 16.66	-0.2		
		iS	18 22.21			
THE	0.47	294 eP	18 17.60	-0.6		
		eS	18 23.64			
PAIG	0.53	167 iP	18 18.86	-0.5		
		eS	18 25.72			
SRS	0.67	4 eP	18 21.60	-0.4		
		eS	18 31.12			
KNT	0.86	326 eP	18 25.96	0.7		
		eS	18 36.76			
LIT	0.87	247 eP	18 25.88	0.6		
		iS	18 38.00			
GRG	1.00	301 eP	18 29.72	2.1X		
S.D. = 0.7		on 7 of 8 obs.				

? JAN 01, 1991 04h 50m 15.63± 4.49s
29.447 N ±46.5km 139.400 E ±31.1km
DEPTH = 401.6 ± 25.1 km
4.4mb (9 obs.)
SOUTH OF HONSHU, JAPAN (211)

MAT	7.15	352 iPc	52 01.70	0.0		
		eS	53 26.00			
CHTO	38.24	263 eP	57 01.00	0.5		
	1.0s	2.25nm		3.5mb		
GUN	46.63	282 P	58 08.08	0.2		
	0.7s	32.00nm		4.8mb		
PKI	47.13	282 P	58 11.12	-0.5		
	1.0s	13.00nm		4.2mb		
KKN	47.18	282 P	58 11.66	-0.2		
	0.9s	29.00nm		4.6mb		
DMN	47.37	282 P	58 13.20	-0.3		
	0.6s	20.00nm		4.6mb		
GKN	47.67	282 P	58 15.46	-0.1		
	0.6s	14.00nm		4.5mb		
YKA	71.24	28 eP	00 53.40	-0.3		
	0.6s	0.70nm		3.5mb		
UPP	79.02	334 iP	01 37.70	0.5		
HFS	80.29	336 eP	01 44.30	0.5		
	0.5s	4.00nm		4.4mb		
NB2	80.51	337 P	01 44.70	-0.4		
	0.6s	3.00nm		4.2mb		
S.D. = 0.5		on 11 of 11 obs.				

JAN 01, 1991 05h 09m 09.44± 0.34s
7.492 S ± 8.1km 156.243 E ± 7.5km
DEPTH = 41.2km (2 depth phases)
4.9mb (8 obs.) 4.5Msz (2 obs.)
SOLOMON ISLANDS (193)

SVO	3.90	115 eP	10 10.00	1.5		
		eS	11 06.00			
HNR	4.14	118 eP	10 12.00	0.2		
		iS	11 07.90			
RAB	5.21	309 eP	10 35.50	8.5X		
		eS	11 43.00			
PMG	9.19	257 eP	11 23.00	0.5		
DZM	17.52	147 iPc	13 12.10	-0.3		
RMO	20.19	200 e(P)	13 42.00	-1.5		
		i	13 46.10	15kmX		
CMS	25.78	201 eP	14 39.00	0.7		
ASPA	26.80	231 eP	14 47.50	-0.3		
	1.2s	5.90nm		4.1mb		
Z	21s	1.10um		4.4Msz		
		eS	18 37.00			
		iScS	25 45.40			
MNG	37.19	155 eP	16 17.30	-1.2		
PPR	41.11	294 iPd	16 57.00	5.6X		
MAT	46.96	340 (P)	17 39.00	0.7		
GYA	58.74	307 P	19 06.00	0.0		
NNT	59.60	289 eP	19 06.80	-5.1X		

TIY	60.75	321	eP	19	20.40	0.8
KMI	61.32	304	Pd	19	25.00	1.1
CHG	62.23	296	eP	19	31.00	1.2
CHTO	62.23	296	eP	19	30.80	1.0
	1.0s	2.50nm			4.3mb	
CD2	63.08	310	eP	19	35.10	-0.2
LZH	65.54	315	eP	19	51.50	0.1
	1.5s	28.00nm			5.1mb	
Z	20s	0.39um			4.6Msz	
			pP	20	04.00	43km
			PcP	20	18.50	
GTA	69.95	317	eP	20	20.20	1.3
	1.6s	30.00nm			5.0mb	
			pP	20	32.00	40km
			sP	20	36.70	
GUN	76.43	301	P	20	56.92	-0.5
	0.7s	12.00nm			5.0mb	
PKI	76.74	301	P	20	58.82	-0.3
KKN	76.91	301	P	20	59.54	-0.4
DMN	77.01	300	P	21	01.02	0.5
GKN	77.52	301	P	21	02.16	-1.0
GBA	80.97	285	P	21	20.00	-1.8
IMA	81.88	18	eP	21	25.10	-0.7
	1.4s	29.83nm			5.1mb	
SPA	82.56	180	iPd	21	31.20	1.8
	1.0s	12.50nm			4.9mb	
FBA	83.13	21	eP	21	30.30	-1.8
YKA	96.19	28	eP	22	33.20	-0.9
	0.8s	2.20nm			4.7mb	
CNCB	130.04	119	PKP	28	18.00	-0.2
LPB	130.06	119	ePKP	28	15.00	-3.1X
ZOBO	130.15	119	PKP	28	18.50	0.1
PPD	140.12	138	e(PKP)	28	38.00	1.7
EBAN	144.52	332	ePKP	28	41.50	-2.1
ENIJ	144.71	329	ePKP	28	42.50	-1.4
ECOG	145.13	331	ePKP	28	43.50	-1.2
AFC	145.14	331	ePKP	28	42.50	-2.3X
EHOR	145.46	334	ePKP	28	46.00	0.9
EVAL	146.30	335	ePKP	28	48.50	2.0
BAO	146.77	134	ePKPd	28	50.50	2.5X
IFR	148.89	329	iPKPd	28	57.50	6.5X
S.D. = 1.1			on 35 of 42 obs.			

JAN 01, 1991 05h 53m 45.83± 0.50s
44.108 N ± 4.6km 19.307 E ± 6.0km
DEPTH = 12.9 ± 3.7 km
YUGOSLAVIA (383)
ML 2.8 (TTG).

PLE	0.78	175	iPgd	53	59.00	-1.9
			iSg	54	07.20	
IVA	1.31	161	ePg	54	09.50	-0.3
			eSg	54	26.10	
NKY	1.31	190	ePg	54	08.80	-1.1
			eSg	54	25.50	
BRY	1.33	205	iPgd	54	09.00	-1.2
			eSg	54	27.00	
PVY	1.59	162	ePg	54	14.00	0.2
			eSg	54	36.00	
TTG	1.68	181	ePg	54	15.30	0.3
			eSg	54	37.00	
HCY	1.76	200	ePg	54	18.00	1.8
BDV	1.86	191	ePn	54	19.00	1.4
BZS	2.23	47	iPc	54	24.50	1.5
HVAR	2.27	247	iPn	54	23.70	0.1
			iSn	54	53.60	
SKO	2.65	143	iPn	54	33.80	4.9X
PTJ	2.98	308	iPnc	54	33.40	-0.2
			eSn	55	13.60	
OHR	3.19	159	ePn	54	37.00	0.3
VBY	3.20	297	e(Pn)	54	49.60	12.8X
BUD	3.38	357	e(P)	54	38.00	-1.3
BRT	3.58	206	P	54	51.50	9.3X
VAY	3.68	138	ePn	54	43.00	-0.6
RIY	3.72	291	eP	54	42.80	-1.3
SRO	3.77	350	eP	54	46.10	1.3
			e	54	48.00	
PSZ	3.83	6	e(P)	54	44.00	-1.8
TRI	4.25	294	eP	54	52.00	0.3
			e	56	12.00	
VOY	4.29	299	ePn	54	52.60	0.2
			e(Sn)	55	41.00	
VKA	4.65	335	eP	55	02.00	4.7X
			e	55	22.00	
			e	56	24.00	
FVI	5.23	301	Pd	55	06.10	0.6
CRE	5.34	267	P	55	08.00	0.8
SFI	5.38	271	Pd	55	09.20	1.5
CTI	5.76	292	P	55	12.00	-1.1
WATA	6.30	304	iPnd	55	20.60	-0.2
	0.2s	9.40nm			5.3mb	X
KHC	6.39	324	ePg	55	23.50	1.6
			eSg	56	42.50	
SQTA	6.47	302	iPnd	55	23.30	0.1
			id	55	23.70	
			e	56	43.00	
MDI	7.01	287	P	55	28.60	-2.0
S.D. = 1.2			on 27 of 31 obs.			

JAN 01, 1991 07h 29m 04.16± 0.56s
47.830 N ± 4.3km 7.627 E ± 4.4km
DEPTH = 10.0km (geophysicist)
SWITZERLAND (544)
ML 2.6 (LDG).

FEL	0.26	80	Pg	29	09.70	-0.1
MOF	0.33	274	Pg	29	11.78	0.7
BBS	0.37	192	Pg	29	11.92	0.0
ECH	0.50	321	Pg	29	14.14	-0.1
			Sg	29	20.65	
BSF	0.56	270	Pg	29	15.61	0.0
CDF	0.63	338	Pg	29	16.70	-0.2
			Sg	29	24.69	
LOMF	0.72	229	Pg	29	18.40	0.0
			Sg	29	28.03	
HAU	0.88	282	Pg	29	20.60	-0.4
			Sg	29	32.40	
GWF	1.15	360	Pg	29	26.07	0.4
			Sg	29	41.08	
VITF	1.17	290	Pg	29	25.77	-0.2
			Sg	29	41.68	
LPL	2.40	195	Pg	29	51.60	7.3X
LOR	2.61	259	Pg	29	54.40	7.2X
			Sg	30	26.00	
LBF	2.62	252	Pg	29	54.20	6.9X
			Sg	30	26.40	
SMF	2.84	247	Pg	29	59.20	8.8X
			Sg	30	33.50	
SSF	2.90	256	Pg	29	59.50	8.3X
			Sg	30	35.40	
S.D. = 0.4			on 10 of 15 obs.			

JAN 01, 1991 07h 30m 33.23± 0.65s
40.995 N ± 6.4km 22.508 E ± 5.5km
DEPTH = 10.0km (geophysicist)
GREECE (364)

GRG	0.09	244	eP	30	35.22	-0.6
VAY	0.33	8	ePg	30	56.10	16.1X
			eSg	31	13.40	
KNT	0.34	60	iP	30	39.30	-0.9
			iS	30	44.18	
THE	0.50	136	iP	30	43.17	-0.2
			iS	30	50.70	
SOH	0.66	105	iP	30	46.01	-0.5
			iS	30	55.50	
SRS	0.83	81	iP	30	48.50	-0.8
			eS	31	00.26	
FNA	0.88	257	eP	30	49.90	-0.3
			eS	31	01.34	
LIT	0.89	181	eP	30	50.90	0.5
			eS	31	04.38	
MMB	1.09	57	iPd	30	53.00	-0.8
PAIG	1.39	140	iP	30	59.30	0.6
			eS	31	18.34	
VTS	1.68	18	eP	31	03.80	0.9
			iSg	31	23.80	
RZN	1.80	67	eP	31	06.80	2.1
S.D. = 1.0			on 11 of 12 obs.			

? JAN 01, 1991 08h 25m 28.81± 0.99s
38.447 N ± 7.1km 21.901 E ±12.0km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 2.8 (ATH).

EVR	0.47	351	ePb	25	38.40	-0.1
VLS	1.07	256	ePb	25	49.00	0.1
			eSn	26	02.00	
ITM	1.27	179	ePn	25	52.00	-0.3
VLI	1.91	154	ePn	26	02.00	0.3
S.D. = 0.4			on 4 of 4 obs.			

JAN 01, 1991 08h 27m 30.58± 0.93s
28.694 S ± 6.2km 69.305 W ± 6.4km
DEPTH = 120.7 ± 8.3 km
4.9mb (14 obs.)
CHILE-ARGENTINA BORDER REGION (127)

CYA	3.10	86	iPc	28	19.20	0.3
MDZ	4.19	175	iP	28	32.50	-1.2
			i(S)	28	51.10	
ANT	5.07	348	eP	28	41.00	-4.5X
			iS	29	49.00	
CCH	11.63	15	eP	30	15.00	0.8
CNCB	11.89	6	P	30	12.00	-5.9X
LPB	12.15	6	P	30	21.00	-0.2
ARE	12.34	350	eP	30	33.00	9.5X
ZOBO	12.41	5	P	30	25.00	0.2
			LR	33	16.00	
ITB1	13.93	77	e(P)	30	45.00	1.2
ITB7	13.96	79	e(P)	30	44.00	-0.3
ITB	14.04	77	e(P)	30	47.00	1.8
SIV	14.75	33	P	30	51.70	-2.7
PPD	17.55	72	eP	31	30.10	1.0
			e	31	34.60	
			e	31	37.00	
NNA	18.05	336	eP	31	35.50	0.3
	0.7s	4.11nm			3.8mb	X
BMA	23.42	81	eP	32	29.20	-0.4
			e	32	32.40	
			e	33	09.60	
BAO	23.58	61	ePd	32	32.50	1.1
SOB1	32.98	60	(P)	34	00.00	4.0X
			e	36	38.40	
SPA	61.47	180	iPd	37	36.40	-0.1
	1.0s	62.50nm			5.6mb	
LHS	63.77	349	P	37	50.00	-1.6
TKL	65.44	347	P	38	00.70	-1.7
PWLA	65.76	343	P	38	02.50	-2.0
RSCP	65.76	346	P	38	03.30	-1.2
	0.8s	46.07nm			5.5mb	
OLY	67.19	340	P	38	12.00	-1.5
ELC	68.24	343	P	38	18.60	-1.4
TUL	68.93	337	iPc	38	23.70	-0.6
FVM	69.21	342	P	38	25.10	-0.9
LIC	70.87	71	Pd	38	36.00	-0.6
	0.8s	16.00nm			4.9mb	
TIC	71.11	71	Pd	38	37.50	-0.5
KIC	71.19	71	Pd	38	36.90	-1.6
	0.8s	26.00nm			5.1mb	
WVLY	71.32	353	P	38	38.50	-0.2
ALQ	72.37	329	eP	38	45.00	-0.3
	1.0s	12.50nm			4.7mb	
GLA	75.07	322	P	39	01.70	0.9
CBM	75.28	1	P	39	01.80	0.2
GOL	75.88	332	P	39	05.60	0.1
PLM	76.42	321	P	39	09.30	0.7
PEC	76.98	321	P	39	12.20	0.7
	0.8s	5.68nm			4.4mb	
MSU	77.94	327	P	39	17.80	0.9
ABL	78.84	320	P	39	22.80	0.9
DAU	79.02	329	P	39	23.40	0.5
BCH	79.57	320	P	39	26.80	1.1
DUG	79.57	328	P	39	26.00	0.4
	0.7s	3.16nm			4.2mb	
TNP	80.14	324	P	39	29.40	0.6
	0.9s	10.74nm			4.6mb	
BW06	80.18	331	P	39	28.80	-0.2
PHAM	80.21	320	P	39	30.00	1.0
PRI	80.58	320	eP	39	32.30	1.2
BONR	80.61	323	P	39	32.40	1.0
LLA	81.08	320	eP	39	34.60	1.1
PRS	81.12	320	eP	39	34.90	1.2
CMB	81.79	322	eP	39	37.00	-0.2
ARN	81.93	320	P	39	38.80	0.8
MHC	81.99	320	eP	39	39.50	1.1
BKS	82.70	320	ePc	39	42.80	0.9
	0.6s	23.00nm			5.2mb	
SLR	84.17	116	iPd	39	49.60	-0.3
	0.8s	14.93nm			4.9mb	
WDC	84.78	322	eP	39	51.50	-0.8
SES	86.98	335	ePd	40	04.00	1.0
FFC	87.71	342	iPc	40	05.80	-0.5
	0.8s	12.00nm			5.0mb	
DPW	87.95	329	P	40	08.00	0.3
LON	88.80	327	P	40	11.50	-0.3
BMW	89.29	326	P	40	14.80	0.7
KRI	89.60	109	iPc	40	10.90	-5.5X
			ipP	40	46.70	139kmX
PNT	89.66	330	eP	40	16.00	0.3

01d 08h

	0.5s	2.00nm			4.5mb	
EDM	90.11	335	ePd	40	16.50	-1.2
BCAO	90.21	85	iPd	40	20.20	1.1
	0.6s	25.00nm			5.5mb	
		i		40	51.50	
YKA	97.82	341	eP	40	51.50	-1.2
	0.8s	2.80nm			4.8mb	
NUR	116.43	33	ePKP	46	00.80	-0.1
KAF	117.51	32	iPKP	46	02.80	-0.1
	0.4s	3.10nm				
ASPA	123.35	206	ePKP	46	13.60	-1.7
	0.6s	16.00nm				
KOD	143.87	114	ePKP	46	52.00	-2.2X
POO	144.88	99	iPKPc	46	55.00	-0.5
GBA	145.68	109	PKP	46	57.90	1.1
HYB	148.46	104	iPKPd	47	04.50	3.2X
	1.0s	90.00nm				
		e		47	08.00	
NDI	150.68	82	iPKPd	47	09.50	5.1X
PSI	151.82	154	iPKP	47	13.00	6.5X
IPM	154.32	157	ePKPd	47	19.80	9.8X
		e		47	52.40	

S.D. = 1.0 on 64 of 74 obs.

JAN 01, 1991 09h 26m 34.96± 1.04s
38.407 N ± 9.3km 22.205 E ± 6.9km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 2.8 (ATH).

EVR	0.60	329	iPgd	26	46.00	-1.1
AGG	0.62	9	eP	26	46.30	-1.2
			eS	26	56.66	
NEO	1.20	41	ePb	26	57.50	0.2
ATH	1.27	110	ePg	26	59.00	0.5
			eSb	27	15.70	
VLS	1.29	260	ePb	26	57.50	-1.4
LIT	1.71	7	iP	27	04.50	-0.4
			eS	27	30.14	
IGT	1.84	308	eP	27	08.14	1.3
PAIG	1.90	37	eP	27	06.62	-1.1
			eS	27	30.54	
KZN	1.93	350	ePg	27	10.50	2.3
SOH	2.57	20	eP	27	17.10	-0.2
OHR	2.91	339	e(Pn)	27	23.00	0.8
SRS	2.91	21	eP	27	21.74	-0.4

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

& JAN 01, 1991 10h 28m 55.10s
38.765 N 119.608 W
DEPTH = 12.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 3.4 (BRK).

CMB	0.95	220	iPc	29	12.30	-0.8
KVN	1.21	76	eP	29	16.50	-1.1
BONR	1.31	128	iP	29	18.90	-0.4
ORV	1.67	299	iPd	29	24.70	0.4
FRI	1.77	183	iPd	29	26.50	0.8
TNP	2.00	109	eP	29	27.10	-2.1
ARN	2.07	228	eP	29	31.00	0.8
MIN	2.21	316	ePc	29	32.90	0.7
BKS	2.25	248	eP	29	33.90	1.2
LTCM	2.42	307	e(P)	29	36.50	1.4
PRI	2.75	198	eP	29	42.50	2.6
WDC	2.90	310	eP	29	42.50	0.6
LBFM	3.12	327	e(P)	29	45.00	-0.1

13 obs. associated

JAN 01, 1991 10h 42m 52.25± 0.27s
22.604 N ± 5.1km 144.626 E ± 4.4km
DEPTH = 24.7km (4 depth phases)
5.2mb (23 obs.) 4.4Msz (6 obs.)
VOLCANO ISLANDS REGION (213)

GUA	9.02	178	eP	45	14.00	10.0X
	0.7s	180.82nm			6.4mb X	
KAKJ	14.09	345	eP	46	09.40	-3.0X
IIDJ	14.10	337	eP	46	12.70	0.1
CHJJ	14.26	341	P	46	13.80	-0.9
TSRJ	14.93	332	eP	46	21.90	-1.5
KAGJ	14.93	308	eP	46	30.00	6.5X
MAT	14.96	340	eP	46	24.00	0.2
			(S)	49	08.00	
MTMJ	15.14	339	eP	46	25.30	-0.9
NIIJ	15.37	343	P	46	27.70	-1.5
KUMJ	15.72	312	eP	46	35.20	1.5
YAMJ	16.01	347	P	46	35.90	-1.5
SHNJ	16.51	317	eP	46	47.50	3.7X
OFUJ	16.62	352	P	46	45.80	0.7
HOOJ	19.76	357	eP	47	25.80	2.5X
MRRJ	19.99	352	eP	47	26.20	0.5
KUSJ	20.44	0	eP	47	31.40	1.0
ASAJ	21.52	356	eP	47	43.60	2.1
SSE	22.53	297	Pc	47	51.50	-0.1
	1.0s	120.00nm			5.3mb	
Z	20s	0.90um			4.2Msz	
			pP	48	02.00	40kmX
			S	51	56.00	
			sS	52	08.00	
MAP	23.22	242	eP	48	01.00	2.5
BAG	23.47	259	eP	48	02.00	0.9
DAV	23.97	233	eP	48	02.20	-3.6X
NJ2	24.70	298	Pc	48	11.70	-1.1
Z	18s	0.45um			4.0Msz	
MDJ	25.19	334	eP	48	19.00	1.7
Z	20s	0.80um			4.2Msz	
E	14s	0.96um				
DL2	25.48	315	P	48	20.00	-0.1
	1.4s	100.00nm			5.3mb	
		S		52	44.00	
SNY	26.04	322	iPd	48	24.80	-0.5
	0.8s	100.00nm			5.5mb	
Z	17s	0.80um			4.3MszX	
N	11s	0.70um				
E	13s	0.90um				
			pP	48	32.20	26km
			S	52	55.00	
			sS	53	04.00	
CN2	26.42	328	eP	48	32.00	3.3X
Z	18s	1.20um			4.5Msz	
N	12s	0.30um				
E	12s	0.60um				
			epP	48	41.00	32km
BJI	29.70	312	eP	48	56.00	-2.5
Z	16s	0.76um			4.4MszX	
			eS	53	48.00	
TIY	31.46	306	eP	49	15.00	0.8
Z	15s	1.00um			4.6MszX	
N	12s	0.50um				
			S	54	20.50	
HHC	33.23	311	Pd	49	30.30	0.7
Z	22s	1.00um			4.5Msz	
XAN	33.27	298	Pd	49	30.20	0.2
BTO	34.22	310	eP	49	37.50	-0.7
N	15s	0.70um				
E	15s	0.60um				
			esP	49	48.50	
GYA	34.67	284	P	49	46.80	4.6X
Z	16s	0.80um			4.4MszX	
SVO	34.89	153	P	49	43.00	-1.0
VSG	34.94	153	P	49	38.00	-6.4X
CD2	37.25	292	eP	50	03.10	-0.9
Z	16s	1.20um			4.8MszX	
LZH	37.73	300	iPc	50	08.00	-0.1
	1.8s	130.00nm			5.5mb	
Z	30s	0.63um			4.2MszX	
E	15s	0.40um				
			PP	51	43.00	
			PcP	52	23.00	
			eS	56	00.00	
KMI	38.28	282	Pc	50	15.00	2.1
Z	24s	0.70um			4.4MszX	
GTA	41.45	304	iPc	50	39.80	1.0
	3.5s	340.00nm			5.5mb X	
Z	16s	0.60um			4.6MszX	
E	15s	0.70um				
			pP	50	44.50	16km
			sP	50	47.50	
			PcS	56	26.50	
CHG	42.77	274	eP	50	50.00	0.2
CHTO	42.77	274	eP	50	49.30	-0.5
	1.0s	4.00nm			4.1mb X	
QIS	43.18	187	iPc	50	51.50	-1.4
IPM	45.78	254	ePd	51	15.70	1.7
ASPA	47.16	193	eP	51	22.10	-2.6
	0.9s	14.80nm			5.0mb	
Z	22s	1.49um			4.9Msz	
			eS	58	16.50	
LSA	48.17	290	eP	51	35.40	2.2
PSI	48.51	253	eP	51	26.00	-9.4X
DZM	49.23	153	iPc	51	40.90	0.0
WMQ	51.05	309	P	51	55.00	0.4
	1.5s	100.00nm			5.5mb	
Z	28s	0.50um			4.4MszX	
			pP	52	02.50	25km
			sP	52	04.50	
			S	59	14.00	
GUN	52.97	289	P	52	09.00	-0.7
PKI	53.43	288	P	52	11.80	-1.2
	0.8s	20.00nm			5.1mb	
KKN	53.51	289	P	52	12.60	-0.9
	1.0s	36.00nm			5.3mb	
DMN	53.69	288	P	52	14.20	-0.6
	1.0s	37.00nm			5.3mb	
GKN	54.04	289	P	52	16.40	-0.9
SVW	55.93	30	eP	52	30.90	0.5
TTA	56.27	28	eP	52	33.00	0.1
IMA	58.15	25	eP	52	45.80	-0.4
	1.4s	57.95nm			5.4mb	
BRW	58.88	19	eP	52	51.40	0.4
PMR	59.09	31	eP	52	51.60	-1.0
	1.1s	567.50nm			6.6mb X	
FBA	60.27	27	eP	53	00.60	-0.1
NDI	60.37	291	eP	53	00.00	-1.9
KLU	60.60	31	P	53	02.70	-0.4
HYB	61.87	278	eP	53	11.00	-1.3
GBA	64.05	275	P	53	29.00	2.3
KOD	65.13	271	eP	53	35.20	1.1
POO	65.83	281	eP	53	37.50	-0.7
INK	66.21	24	eP	53	39.00	-0.8
MBC	69.64	15	ePd	54	01.40	0.3
	1.0s	18.00nm			5.2mb	
MAIO	73.23	303	iPc	54	24.60	1.1
	1.0s	9.50nm			4.8mb	
			e	03	11.00	
YKA	75.03	28	eP	54	31.90	-1.3
	0.8s	6.90nm			4.7mb	
GMW	75.35	44	P	54	36.70	1.3
BMW	75.39	46	P	54	37.60	1.9
RMW	76.01	44	P	54	39.40	0.1
LON	76.23	45	P	54	40.50	0.0
PNT	76.80	42	ePd	54	44.00	0.4
	1.1s	23.00nm			5.1mb	
LBFM	77.92	50	P	54	51.00	0.8
KEV	77.93	342	eP	54	47.00	-2.3
EDM	79.07	37	ePd	54	57.00	1.0
SOD	79.37	340	iP	54	58.70	1.4
CMB	80.15	53	P	55	02.50	0.4
	1.0s	16.67nm			5.0mb	
SES	81.53	39	eP	55	10.00	0.9
BONR	81.71	52	P	55	11.40	0.7
TNP	82.46	52	P	55	14.50	0.1
	0.8s	6.62nm			4.8mb	
KAF	82.46	335	iP	55	08.90	-4.8X
	0.7s	9.10nm			5.0mb	
LRM	82.61	43	eP	55	15.40	0.3
CLC	83.05	54	eP	55	17.00	-0.3
SBB	83.31	55	eP	55	18.00	-0.7
MWC	83.31	56	eP	55	19.00	0.1
GSC	83.84	54	eP	55	21.00	-0.4
NUR	84.05	334	iP	55	21.20	-0.6
	1.0s	38.00nm			5.6mb	
PEC	84.13	56	P	55	23.10	0.3
	1.0s	6.25nm			4.8mb	
FFC	84.35	32	eP	55	24.00	0.6
	0.9s	25.00nm			5.4mb	
DUG	84.74	49	P	55	26.50	0.6
	1.0s	7.50nm			4.9mb	
TPC	84.89	55	eP	55	26.00	-0.7
BAR	84.98	57	eP	55	26.00	-1.1
DAU	85.72	48	P	55	31.80	0.8
MSU	85.90	50	P	55	32.70	0.8
GLA	86.25	56	eP	55	33.00	-0.4
UPP	87.18	336	iP	55	36.60	-0.7
HFS	88.41	338	eP	55	42.20	-1.1
	1.1s	19.40nm			5.3mb	
Z	16s	0.17um			4.6MszX	
			LR	35	09.00	
ALQ	91.62	51	eP	55	58.00	-1.0
	1.0s	6.75nm			5.0mb	
KRA	92.68	328	eP	56	04.10	0.8
KSP	93.89	330	eP	56	07.20	-1.7
BCAO	120.89	290	ePKPc	01	55.00	10.1X
	0.6s	3.00nm				
ARE	145.48	86	ePKP	02	34.00	3.0X
PEL	147.21	116	iPKPd	02	36.50	3.4X
ZOBO	148.53	84	PKP	02	37.00	0.7
			i	02	40.90	
LPB	148.62	85	PKP	02	35.00	-1.2
CNCB	148.81	85	PKP	02	37.00	0.3

SIV 154.89 79 PKP 02 45.90 1.1
S.D. = 1.1 on 94 of 108 obs.

• JAN 01, 1991 11h 15m 00.57± 0.46s
15.345 S ±15.6km 172.374 W ±15.4km
DEPTH = 33.0km (normol)
4.9mb (9 obs.)
SAMOA ISLANDS REGION (169)

AFI 1.54 22 iPd 15 24.50 -1.6
eS 17 36.00
DZM 21.14 248 iPc 19 44.00 -1.2
ASPA 51.07 252 eP 23 56.40 -5.8X
0.8s 9.10nm 4.8mb
PRS 70.42 42 eP 26 14.50 0.8
BCH 70.58 43 P 26 15.30 0.5
PHAM 70.75 43 P 26 16.00 0.3
PRI 70.76 42 eP 26 16.70 0.8
BRK 70.80 40 eP 26 16.30 0.4
BKS 70.82 40 ePc 26 16.60 0.6
0.7s 22.00nm 5.3mb
MHC 70.86 41 eP 26 17.00 0.5
ARN 70.93 41 P 26 17.30 0.5
ABL 70.96 44 P 26 17.10 -0.2
PLM 71.74 47 eP 26 21.00 -0.9
SBB 71.81 45 eP 26 21.00 -1.2
FRI 71.88 42 eP 26 22.60 0.2
CMB 72.07 41 eP 26 23.50 -0.1
WDC 72.33 38 eP 26 25.30 0.3
CLC 72.60 44 eP 26 26.00 -0.8
TPC 72.72 46 eP 26 24.00 -3.5X
GSC 72.85 45 eP 26 27.00 -1.3
BONR 73.35 42 P 26 31.70 0.2
TNP 74.13 42 P 26 35.70 -0.2
0 9s 16.28nm 5.0mb
SPA 74.75 180 iPc 26 36.30 -2.7
0.9s 7.27nm 4.7mb
LON 76.67 33 P 26 49.00 -1.0
RMW 77.13 33 P 26 52.00 -0.6
MSU 77.70 44 P 26 56.80 0.7
TTA 79.07 8 eP 27 03.10 0.3
PNT 79.44 32 ePd 27 05.00 -0.1
0.9s 14.00nm 5.0mb
TOA 79.92 12 eP 27 07.70 0.2
ALO 80.01 50 eP 27 08.00 -0.7
0.9s 4.20nm 4.4mb
FBA 82.16 10 eP 27 18.50 -0.6
IMA 82.37 8 eP 27 20.20 -0.1
1.1s 10.94nm 4.8mb
GOL 82.91 46 P 27 23.80 0.0
1.0s 21.25nm 5.2mb
SES 84.60 34 ePd 27 32.70 0.8
MEO 85.85 52 iPc 27 39.00 0.5
BJI 86.15 313 eP 27 39.50 -0.3
INK 87.98 13 eP 27 47.00 -1.0
YKA 89.66 23 eP 27 54.60 -1.5
1.1s 3.50nm 4.6mb
KSP 143.91 351 ePKP 34 30.80 -3.3X
e 35 01.00
MOX 144.64 356 ePKP 34 33.00 -2.4X
PRU 144.99 352 ePKP 34 34.00 -2.0
e 34 44.50
e 35 12.00
KHC 145.96 353 PKP 34 39.40 1.7
1.2s 7.50nm
FLN 146.02 10 ePKP 34 36.20 -1.6
0.8s 10.75nm
MLR 146.22 337 ePKP 34 42.00 3.6X
GRR 146.32 10 ePKP 34 37.60 -0.7
1.1s 19.55nm
ZST 146.32 349 ePKP 34 40.60 2.3X
SRO 146.44 347 ePKP 34 40.20 1.7
LPF 146.63 11 ePKP 34 38.70 -0.1
1.1s 17.10nm
LOR 148.02 5 ePKP 34 42.70 1.6
1.0s 11.00nm
SSF 148.19 5 ePKP 34 43.30 2.0
1.0s 13.00nm
LBF 148.31 5 ePKP 34 43.40 1.8
1.0s 13.00nm
AVF 148.45 6 ePKP 34 43.70 2.0
1.0s 7.00nm
BGF 148.63 6 ePKP 34 44.30 2.2X
0.8s 8.05nm
SMF 148.63 5 ePKP 34 44.20 2.1X
1.0s 8.00nm
LSF 148.77 8 ePKP 34 44.20 1.9
0.8s 8.75nm
MAF 148.93 7 ePKP 34 45.10 2.5X
0.9s 8.20nm
LFF 149.93 10 ePKP 34 47.70 3.6X
0.8s 9.40nm
LPG 149.93 1 ePKP 34 47.80 3.3X
1.0s 9.00nm
LPO 150.25 9 ePKP 34 48.20 3.6X
SKO 150.91 339 ePKP 34 50.30 4.6X
OHR 151.90 339 ePKP 34 52.50 5.3X
S.D. = 1.1 on 47 of 61 obs.

% JAN 01, 1991 12h 01m 29.99± 0.78s
42.931 N ± 6.8km 19.160 E ± 6.1km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.0 (TTG).

NKY 0.17 225 iPgd 01 34.50 0.6
iSg 01 38.50
PLE 0.43 23 ePg 01 39.00 0.1
eSg 01 45.00
BRY 0.45 266 iPgc 01 38.80 -0.5
eSg 01 45.70
TTG 0.51 171 ePg 01 40.00 -0.3
eSg 01 47.70
IVA 0.55 96 ePg 01 41.00 -0.1
eSg 01 49.00
S.D. = 0.6 on 5 of 5 obs.

• JAN 01, 1991 12h 06m 29.73± 1.55s
36.410 N ±10.1km 141.327 E ±13.1km
DEPTH = 57.8 ± 8.4 km
5.1mb (6 obs.) 4.0Msz (1 obs.)
NEAR EAST COAST OF HONSHU, JAPAN(228)

KAKJ 0.95 258 P 06 45.70 -1.5
CHJJ 1.92 260 iPd 06 59.60 -1.0
S 07 21.50
YAMJ 2.04 330 P 07 02.00 -0.2
S 07 27.60
NIIJ 2.04 295 P 07 02.10 -0.2
S 07 27.40
MAT 2.52 274 iPc 07 08.90 -0.1
eS 07 38.00
OFUJ 2.68 6 P 07 10.40 -0.8
S 07 41.00
MTMJ 2.84 275 P 07 14.20 0.5
IIDJ 2.92 252 P 07 16.10 1.3
AOMJ 4.21 350 P 07 34.30 1.5
TSRJ 4.42 260 P 07 37.10 1.3
BJI 20.07 288 eP 10 59.00 -1.8
TIY 23.06 282 eP 11 30.60 -0.3
Z 18s 0.50um 4.0Msz
XAN 26.51 275 P 12 04.30 0.7
GYA 31.05 261 P 12 43.60 -0.9
pP 12 54.00 38kmX
CD2 31.61 271 eP 12 49.00 -0.3
GTA 32.69 288 eP 12 59.20 0.6
0.8s 10.00nm 4.7mb
PcP 15 45.80
WMQ 41.06 297 P 14 08.20 -0.9
GUN 47.15 276 P 14 58.76 0.1
0.9s 32.00nm 5.3mb
PKI 47.67 276 P 15 02.88 0.2
0.9s 18.00nm 5.0mb
KKN 47.68 276 P 15 02.36 -0.3
1.0s 31.00nm 5.2mb
DMN 47.90 276 P 15 05.34 0.9
GKN 48.11 277 P 15 05.78 -0.1
1.1s 70.00nm 5.6mb
ASPA 60.16 188 eP 16 33.30 -0.4
1.7s 5.90nm 4.4mb
GBA 61.10 266 P 16 41.90 1.6
YKA 64.38 30 eP 17 20.60 19.2X
0.8s 0.60nm
ZOBO 147.06 60 ePKP 26 20.00 13.5X
LPB 147.25 61 ePKP 26 14.00 7.3X
CNCB 147.52 61 ePKP 26 14.00 6.7X
S.D. = 1.0 on 24 of 28 obs.

• JAN 01, 1991 12h 14m 23.98± 1.10s
0.944 N ±10.9km 126.256 E ±12.0km
DEPTH = 78.1 ± 10.3 km
4.4mb (3 obs.)
MOLUCCA PASSAGE (266)

MNI 1.50 289 iP 14 49.50 -0.1
eS 15 10.00
AAI 4.99 157 eP 15 38.10 0.1
TSM 8.80 292 ePc 16 34.50 3.8X
QIS 25.05 149 eP 19 43.00 0.4
IPM 25.45 279 ePc 19 47.60 1.1
ASPA 25.57 164 eP 19 46.90 -0.6
0.6s 13.10nm 4.6mb
eS 24 10.30
MAT 37.11 16 (P) 21 29.00 0.3
GUN 47.02 308 P 22 50.00 0.0
PKI 47.24 308 P 22 51.60 -0.1
KKN 47.44 308 P 22 52.60 -0.5
DMN 47.49 308 P 22 53.60 0.0
GKN 48.04 308 P 22 57.40 -0.4
GBA 49.91 287 Pc 23 11.90 -0.2
0.7s 2.70nm 4.4mb
YKA 102.21 25 ePdiff28 14.80 3.5X
0.6s 0.40nm 4.3mb
S.D. = 0.5 on 12 of 14 obs.

% JAN 01, 1991 14h 03m 37.32± 0.97s
39.364 N ± 9.9km 15.375 E ±12.4km
DEPTH = 28.1 ± 10.9 km
SOUTHERN ITALY (390)

TDS 0.80 68 Pc 03 52.80 0.2
iSg 04 04.50
ORI 1.08 49 P 03 57.50 0.8
eSg 04 13.00
SGO 1.19 358 P 03 58.40 0.2
eSg 04 14.00
SOI 1.39 157 P 04 01.00 0.0
eSg 04 20.50
GIB 1.73 218 P 04 06.00 0.0
eSn 04 26.50
BRT 2.06 42 P 04 09.50 -1.2
eSg 04 35.00
S.D. = 1.1 on 6 of 6 obs.

% JAN 01, 1991 14h 25m 48.30± 0.66s
42.929 N ± 5.9km 19.145 E ± 5.1km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.2 (TTG).

NKY 0.16 223 iPgd 25 52.89 0.9
iSg 25 56.54
PLE 0.44 24 iPgd 25 57.64 0.3
iSg 26 03.46
BRY 0.44 267 iPgd 25 56.88 -0.5
iSg 26 03.73
TTG 0.51 170 iPgc 25 58.21 -0.3
iSg 26 06.08
IVA 0.56 96 iPgd 25 59.31 -0.4
iSg 26 07.48
HCY 0.68 225 iPgd 26 00.98 -0.8
iSg 26 12.34
BDV 0.69 200 iPgc 26 02.58 0.7
iSg 26 12.79
PVY 0.70 118 iPgd 26 02.19 0.0
iSg 26 13.98
S.D. = 0.7 on 8 of 8 obs.

• JAN 01, 1991 14h 40m 36.39± 0.69s
16.716 S ±14.3km 177.144 E ±15.6km
DEPTH = 33.0km (normol)
4.4mb (4 obs.)
FIJI ISLANDS (182)
ML 4.1 (SVA).

NDF 1.08 164 iP 40 55.60 0.4
eS 41 14.20
SGE 1.14 139 iP 40 55.00 -1.3
MBU 1.53 100 iPd 41 01.60 -0.2
S 41 25.80
VUN 1.80 136 iP 41 05.60 0.0
SVA 1.87 138 iPd 41 06.60 -0.1
S 41 19.80
DZM 11.41 240 iPc 43 13.30 -7.0X
CMS 32.01 237 eP 46 56.60 -5.4X
ASPA 41.05 253 iPc 48 10.10 -8.5X
0.7s 22.70nm 5.0mb
Z 23s 0.30um 4.1MszX
SPA 73.39 180 eP 52 07.60 0.7
1.0s 7.50nm 4.6mb
CHTO 84.61 291 e(P) 53 06.80 -1.5

01d 14h

	1.0s		1.75nm			4.2mb			0.7s		16.40nm			4.7mb		N	14s		1.00um			
LZH	86.82	309	eP	53	16.50	-2.7	BMW	23.63	97	eP	55	24.80	1.4	SSE		59.82	282	Pc	00	18.00	-0.8
			i	53	28.50		RMW	23.90	94	eP	55	27.50	1.4			1.0s		17.00nm			5.1mb
YKA	95.07	26	eP	53	56.20	-0.6	PNT	24.21	88	eP	55	31.00	2.0		Z	24s		0.50um			4.6MszX
	0.6s		0.30nm			3.9mb		1.0s		60.00nm			5.1mb					pP	00	30.00	42kmX
KHC	145.01	341	ePKP	00	13.40	1.5	LON	24.29	95	eP	55	31.00	1.2	NJ2		60.40	284	Pc	00	21.00	-1.8
GRB1	145.34	343	ePKP	00	12.90	0.5	MBC	25.59	20	ePd	55	42.10	0.3		Z	18s		0.45um			4.7Msz
			e	00	17.20			0.9s		80.00nm			5.3mb	KAF		63.00	358	iP	00	38.30	-1.6
ABH	145.86	348	ePKP	00	15.49	2.1	EDM	26.08	75	eP	55	46.00	-0.6			0.4s		4.10nm			4.9mb
SKO	147.33	325	e(PKP)	00	20.00	4.1X	NEW	26.17	88	eP	55	47.50	0.0	NB2		63.85	6	P	00	44.70	-0.8
SOTA	147.43	342	i(PKP)	00	17.20	1.1	FHC	26.81	108	eP	55	54.80	1.4			0.8s		15.70nm			5.2mb
	1.2s		13.80nm				LBFM	27.59	105	eP	56	01.00	0.2	WHN		64.04	287	Pc	00	48.00	0.9
			i	00	19.90		WDC	27.76	107	ePc	56	02.70	0.7	XAN		64.28	293	Pd	00	48.40	-0.3
	S.D. = 1.4		on 13 of 17 obs.				MIN	28.43	106	ePc	56	08.50	0.2	NUR		64.65	358	iP	00	49.20	-1.4
							SES	28.58	80	eP	56	10.00	0.6			0.8s		60.10nm			5.7mb
	JAN 01, 1991 15h 50m 14.65± 0.19s						ORV	29.04	107	eP	56	13.50	-0.1	GTA		64.72	303	eP	00	50.20	-1.5
	55.167 N ± 3.3km 158.388 W ± 2.7km						LRM	30.17	89	eP	56	24.10	0.1			4.0s		420.00nm			5.9mb X
	DEPTH = 33.0km (normal)						MHC	30.56	110	eP	56	27.40	0.1		Z	18s		2.40um			5.4Msz
	5.2mb (63 obs.) 5.0Msz (18 obs.)						CMB	30.74	108	eP	56	28.50	-0.2		N	15s		1.10um			
	ALASKA PENINSULA					(12)	PRS	31.45	111	eP	56	35.30	0.3					pP	01	00.00	31kmX
	ML 5.0 (PMR). Ms 5.0 (BRK). Felt						LLA	31.47	110	eP	56	35.20	0.0	HFS		64.87	4	eP	00	51.50	-0.6
	(IV) at Perryville and (III) at						FFC	31.65	67	eP	56	43.00	6.5X			0.8s		27.30nm			5.4mb
	Chignik, Chignik Lagoon and Sand							0.8s		14.00nm			4.9mb		Z	18s		0.39um			4.6Msz
	Point.						BONR	31.94	106	eP	56	39.00	-0.6					LR	25	20.00	
	CENTROID, MOMENT TENSOR (HRV)						PRI	31.97	111	eP	56	43.00	3.3X	UPP		65.28	2	iP	00	54.80	0.1
	Data Used: GDSN						PTI	31.99	93	eP	56	41.00	1.1	LZH		65.33	298	Pd	00	54.50	-1.1
	L.P.B.: 15S, 36C						TNP	32.45	104	eP	56	43.00	-0.9			4.0s		370.00nm			5.8mb X
	Centroid Location:						DUG	33.47	97	eP	56	52.00	-0.7		Z	18s		1.46um			5.2Msz
	Origin Time 15:50:15.8 0.6							1.1s		3.50nm			4.2mb X		E	16s		0.96um			
	Lat 54.70N 0.13 Lon 158.39W 0.13						BW06	33.66	91	eP	56	53.80	-0.7					pP	01	02.50	26kmX
	Dep 28.2 6.0 Half-duration 1.7						ABL	33.72	111	eP	56	54.80	-0.2					sP	01	07.00	
	Moment Tensor; Scale 10**17 Nm						CLC	33.88	108	eP	56	55.00	-1.2	WMO		66.63	314	P	01	03.00	-0.7
	Mrr= 0.38 0.06 Mtt=-0.18 0.09						DAU	34.22	96	eP	56	59.00	-0.4		Z	22s		1.80um			5.2Msz
	Mff=-0.20 0.06 Mrt= 0.62 0.18						GSC	34.69	107	eP	57	03.00	-0.2					pP	01	08.50	18kmX
	Mrf= 1.17 0.23 Mtf=-0.48 0.07						RVR	35.36	110	eP	57	08.00	-0.8					sP	01	11.70	
	Principal Axes:						TPC	36.00	108	eP	57	14.00	-0.3	EKA		68.01	15	P	01	25.00	12.9X
	T Val= 1.32 Plg=54 Azm=284						PLM	36.13	110	eP	57	15.00	-0.5			0.9s		25.50nm			
	N 0.22 11 29						BAR	36.74	110	eP	57	21.00	0.5	MUD		68.27	7	eP	01	14.00	0.3
	P -1.54 34 126						GLA	37.46	108	eP	57	26.00	-0.6			0.9s		6.60nm			4.7mb
	Best Double Couple:Mo=1.4*10**17						GOL	38.06	91	eP	57	31.40	-0.4	CD2		69.44	295	P	01	20.00	-1.4
	NP1:Strike=255 Dip=15 Slip= 137							0.9s		21.70nm			5.0mb			1.2s		70.00nm			5.6mb
	NP2: 27 80 79							Z 18s		1.30um			4.8Msz		Z	19s		1.30um			5.2Msz
							GLD	38.11	91	eP	57	32.50	0.3					pP	01	33.00	45kmX
SDN	1.22	279	iPc	50	35.80	0.4		1.0s		50.00nm			5.3mb	GYA		71.42	290	P	01	32.60	-1.0
KDC	4.17	49	eP	51	16.50	-1.0		Z 18s		1.30um			4.8Msz		Z	24s		0.70um			4.8MszX
CDD	4.58	33	eP	51	23.56	0.2	ALO	40.74	98	eP	57	53.00	-1.0	WTS		72.50	10	eP	01	41.50	2.1
MCNL	4.59	27	eP	51	23.35	-0.2		1.0s		11.25nm			4.6mb			1.0s		29.00nm			5.2mb
SYI	4.77	41	eP	51	25.17	-0.8	OFUJ	42.45	273	P	58	06.40	-1.3	ENN		73.63	10	eP	01	46.50	0.5
PDB	5.16	24	eP	51	31.74	0.2	FRB	42.76	41	eP	58	09.00	-0.9			1.0s		37.00nm			5.3mb
OPT	5.29	30	eP	51	35.05	1.6	YAMJ	44.00	274	P	58	19.10	-1.2	CLL		73.65	6	eP	01	46.00	-0.1
XLV	5.61	37	eP	51	39.21	1.3	GDH	44.54	29	eP	58	25.00	0.7			1.1s		18.00nm			5.0mb
INE	5.68	28	eP	51	40.16	1.1				e	10	40.00						i	01	58.10	
HOM	5.79	36	eP	51	41.01	0.5				e	15	35.00		BRG		74.14	5	iP	01	49.80	0.9
CNPM	5.84	39	eP	51	39.76	-1.4	MEO	45.36	91	iPc	58	32.00	0.7			1.2s		32.00nm			5.2mb
BRLK	6.13	38	eP	51	43.74	-1.6	MDJ	45.59	288	eP	58	26.50	-6.5X					i	02	01.60	
SVW	6.14	13	eP	51	45.80	0.4		Z 22s		1.90um			5.0Msz	MOX		74.23	7	iP	01	50.00	0.5
REF	6.14	27	eP	51	45.66	0.1	MAT	46.18	274	iPc	58	35.80	-2.0			1.0s		37.00nm			5.3mb
NNL	6.20	35	eP	51	46.19	0.0		1.0s		60.00nm			5.5mb	KSP		74.27	4	iPc	01	50.00	0.3
CKL	6.84	25	eP	51	55.58	0.3				(S)	05	30.00						i	02	00.00	
SEW	6.89	40	eP	51	53.32	-2.5X	FVM	47.77	82	eP	58	49.00	-1.3	KMI		74.60	292	Pd	01	53.00	0.7
SPU	6.90	26	eP	51	55.73	-0.3	CN2	48.38	290	iPd	58	54.00	-0.9		Z	23s		1.00um			5.0MszX
SLKM	6.90	36	eP	51	55.02	-1.1		1.0s		100.00nm			5.8mb	ABH		74.66	9	eP	01	52.87	0.8
SUA	7.48	29	eP	52	03.13	-1.2		Z 20s		2.70um			5.2Msz	FLN		74.79	15	eP	01	51.30	-1.5
MTU	7.52	46	eP	52	03.39	-1.4		N 16s		1.00um						0.9s		21.30nm			5.1mb
PMS	7.67	34	eP	52	05.12	-1.7		E 16s		0.50um					Z	20s		0.65um			4.9Msz
KNIM	7.70	43	eP	52	04.79	-2.5X				pP	59	05.00	38kmX	LDF		75.01	15	eP	01	52.60	-1.4
SKT	7.71	25	eP	52	07.21	-0.2				eS	05	52.00				0.9s		19.65nm			5.1mb
MID	7.80	52	e(P)	52	08.00	-0.5	ELC	48.94	81	eP	58	56.70	-2.6	PRU		75.05	5	P	01	55.20	1.0
PWA	7.88	31	eP	52	09.65	-0.1	SNY	50.72	289	iPd	59	11.00	-1.9					e	02	03.00	
TTA	7.88	8	eP	52	09.90	0.0		1.0s		100.00nm			5.8mb	GRR		75.10	15	eP	01	53.40	-1.2
PLRM	8.07	33	eP	52	11.39	-0.9				pP	59	22.80	42kmX			0.7s		12.15nm			5.0mb
PMR	8.07	33	eP	52	11.10	-1.2	PWLA	51.24	83	eP	59	14.50	-2.4	KRA		75.14	1	eP	01	55.20	0.5
KNK	8.15	36	eP	52	11.75	-1.8	GBTN	52.93	79	eP	59	27.20	-2.4			0.8s		19.00nm			5.1mb
GLI	8.28	42	eP	52	11.71	-3.6X	KEV	55.32	358	iP	59	46.00	-0.7		Z	18s		0.90um			5.1Msz
KLU	9.11	41	P	52	24.90	-2.0X		0.9s		38.90nm			5.4mb	LPF		75.42	15	eP	01	55.50	-0.9
TOA	9.42	37	eP	52	30.90	-0.2	LHS	55.70	78	eP	59	47.60	-2.3			0.8s		22.85nm			5.2mb
ANM	10.05	342	eP	52	39.30	-0.4	BJI	55.95	293	eP	59	50.00	-1.6	GRB1		75.48	7	iPc	01	56.90	0.2
FBA	11.09	24	eP	52	49.90	-3.9X		1.2s		21.00nm			5.0mb			1.1s		32.00nm			5.2mb
IMA	11.18	10	eP	52	55.30	0.1		Z 20s		1.40um			5.1Msz		Z	22s		0.20um			4.4Msz
ADK	11.37	261	eP	52	54.10	-3.6X		N 14s		0.50um				GWF		75.57	9	P	01	58.26	1.0
SIT	12.99	72	eP	53	16.00	-3.3X	SOD	57.72	358	iP	00	02.50	-1.3	WET		75.80	6	iPd	02	00.00	1.4
BRW	16.22	2	eP	54	00.40	-0.8	BTO	58.75	297	P	00	11.00	-0.6	KHC		75.86	5	eP	02	00.50	1.6
INK	17.48	31	P	54	14.00	-3.0X			N	15s		0.90um				1.0s		14.00nm			4.9mb
	0.9s		5.50nm			3.7mb X			E	15s		1.00um		CDF		76.09	10	P	02	00.57	0.2
PGC	22.34	92	eP	55	11.50	0.8				epP	00	21.00	33kmX	VITF		76.15	11	P	02	00.82	0.3
MCW	22.68	92	eP	55	15.50	1.4	TIY	59.64	293	Pd	00	17.40	-0.3	ECH		76.28	10	P	02	01.13	-0.1
YKA	23.41	54	eP	55	23.50	2.5		Z 18s		1.10um			5.0Msz	HAU		76.40	10	eP	02	01.10	-0.9

	0.7s	15.45nm		5.1mb	
	Z 19s	0.55um		4.9Msz	
BSF	76.62	10 eP	02 02.20	-1.1	
	0.8s	12.10nm		5.0mb	
MOF	76.63	10 P	02 03.82	0.5	
FEL	76.69	9 P	02 03.42	-0.3	
LSA	76.75	303 Pd	02 06.20	1.4	
LOR	76.85	12 eP	02 03.40	-1.1	
	1.0s	35.00nm		5.3mb	
SLE	76.85	9 ePd	02 04.30	-0.2	
ZST	76.94	3 eP	02 07.70	2.8X	
MFF	76.95	15 eP	02 04.30	-0.7	
	0.8s	40.30nm		5.5mb	
SSF	77.01	13 eP	02 04.40	-0.9	
	0.8s	34.90nm		5.4mb	
LOMF	77.10	10 P	02 06.12	0.2	
LBF	77.14	12 eP	02 04.90	-1.2	
	0.7s	13.25nm		5.1mb	
BHG	77.22	6 iPd	02 08.00	1.5	
	0.8s	26.00nm		5.3mb	
AVF	77.25	13 eP	02 05.60	-1.1	
	0.7s	22.05nm		5.3mb	
SRO	77.36	2 eP	02 09.30	2.1	
BGF	77.42	13 eP	02 06.60	-1.0	
	0.7s	25.90nm		5.4mb	
SAX	77.43	9 ePd	02 09.40	1.4	
SMF	77.46	12 eP	02 06.70	-1.1	
	0.8s	22.85nm		5.3mb	
WATA	77.52	7 iPc	02 08.90	0.6	
	1.1s	37.10nm		5.3mb	
		i	02 15.00		
		i	02 19.00		
LSF	77.54	14 eP	02 07.40	-0.9	
TCF	77.60	14 eP	02 07.60	-1.0	
	0.8s	19.50nm		5.2mb	
SOTA	77.61	7 iPc	02 08.00	-0.8	
	0.9s	30.80nm		5.3mb	
		id	02 09.30		
		i	02 21.80		
MAF	77.71	13 eP	02 09.20	0.0	
	0.7s	22.05nm		5.3mb	
LLS	77.78	9 ePc	02 10.10	0.3	
KBA	77.89	6 iPc	02 11.60	1.2	
	1.1s	43.50nm		5.4mb	
		i	02 23.60		
OSS	78.06	8 ePc	02 12.50	1.2	
VDL	78.20	9 ePc	02 13.50	1.3	
FVI	78.34	6 P	02 12.50	-0.1	
EMS	78.38	10 ePd	02 14.50	1.4	
RJF	78.47	14 eP	02 12.30	-1.1	
	0.9s	27.85nm		5.3mb	
	Z 19s	0.43um		4.8Msz	
MMK	78.50	10 ePc	02 16.40	2.6X	
TMA	78.53	9 ePc	02 14.80	0.9	
LFF	78.71	15 eP	02 14.10	-0.6	
	0.8s	49.70nm		5.6mb	
VAI	78.76	9 P	02 16.50	1.6	
CTI	78.81	7 P	02 16.00	0.6	
LPL	78.90	11 eP	02 16.00	-0.1	
	0.8s	7.40nm		4.7mb	
CAF	78.91	14 eP	02 15.10	-0.8	
	0.9s	22.95nm		5.2mb	
LPG	78.92	11 eP	02 16.20	-0.1	
	0.9s	6.55nm		4.6mb	
MDI	78.93	8 P	02 16.00	0.2	
VOY	78.96	5 e(P)	02 17.50	1.3	
LPO	79.03	15 eP	02 15.50	-0.9	
	0.9s	26.20nm		5.2mb	
SAL	79.16	8 P	02 18.50	1.4	
VRI	79.24	356 eP	02 22.00	4.4X	
CVO	79.31	357 eP	02 24.50	6.5X	
VBY	79.56	5 eP	02 19.90	0.6	
MLR	79.65	357 eP	02 25.00	5.0X	
CMP	79.90	358 ePc	02 26.00	4.8X	
BOB	79.91	9 P	02 22.00	0.7	
CKI	80.14	10 Pd	02 24.00	1.6	
BEO	80.38	1 eP	02 25.20	1.5	
EPF	80.52	16 eP	02 23.20	-1.3	
	0.9s	13.10nm		4.9mb	
S8F	80.61	10 eP	02 24.20	-0.8	
	0.8s	29.55nm		5.3mb	
BDI	80.70	8 P	02 26.00	0.5	
GUN	80.74	306 P	02 26.00	-0.4	
FRF	80.83	11 eP	02 25.60	-0.5	
	0.8s	14.80nm		5.0mb	
LRG	80.90	11 eP	02 25.70	-0.7	
	0.9s	16.40nm		5.0mb	

	Z 19s	0.32um		4.7Msz	
SFI	80.94	7 P	02 29.30	2.7X	
LMR	81.04	11 eP	02 26.80	-0.4	
	0.8s	8.05nm		4.8mb	
PII	81.04	8 P	02 28.00	0.9	
FIR	81.04	8 eP	02 30.01	2.9X	
KKN	81.12	307 P	02 28.00	-0.2	
GKN	81.24	307 P	02 28.20	-0.5	
CRE	81.24	7 P	02 30.00	1.6	
PKI	81.25	306 P	02 28.00	-1.0	
DMN	81.36	307 P	02 29.60	0.1	
ARV	81.43	6 P	02 32.00	2.7X	
CHG	81.76	291 eP	02 31.50	0.2	
CHTO	81.76	291 eP	02 31.00	-0.3	
	1.0s	10.00nm		4.8mb	
ASS	81.84	7 P	02 33.90	2.4	
PGF	82.07	9 eP	02 32.10	-0.6	
	0.8s	38.95nm		5.5mb	
TOL	82.81	20 eP	02 39.00	2.5	
AZI	82.97	6 P	02 38.00	0.8	
BDT	83.02	290 eP	02 37.30	-0.5	
SKO	83.23	0 ePd	02 40.00	1.4	
	1.1s	74.00nm		5.7mb	
SDI	83.27	6 P	02 40.00	1.1	
MAIO	83.29	330 iPd	02 40.40	1.3	
	0.9s	10.23nm		4.9mb	
		e	13 24.00		
DUI	83.35	5 P	02 41.50	2.1	
RZN	83.48	358 eP	02 42.00	1.9	
MMB	83.60	358 eP	02 42.40	1.8	
VAY	83.88	359 iP	02 43.00	1.1	
ISK	83.93	354 eP	02 41.00	-1.2	
KNT	84.04	359 iP	02 43.62	0.9	
SRS	84.07	358 iP	02 43.38	0.5	
OHR	84.09	1 iP	02 42.30	-0.8	
	1.0s	84.00nm		5.9mb	
HRT	84.14	354 iP	02 43.70	0.4	
ALN	84.23	357 iP	02 43.94	0.3	
GRG	84.25	359 iP	02 44.66	0.8	
BRT	84.25	3 P	02 45.00	1.2	
SOH	84.37	359 iP	02 45.18	0.7	
YLV	84.41	354 eP	02 40.00	-4.7X	
IZI	84.63	354 eP	02 45.00	-0.8	
KCT	84.78	355 eP	02 46.00	-0.5	
BBTK	84.88	351 eP	02 48.00	0.9	
ORI	85.04	4 P	02 45.00	-2.8	
LIT	85.10	359 iP	02 47.82	-0.3	
PAIG	85.26	358 iP	02 48.82	0.0	
EZN	85.29	356 eP	02 49.00	0.0	
TDS	85.44	4 P	02 51.40	1.6	
IGT	85.67	1 iP	03 10.94	20.0X	
ALT	85.87	353 eP	02 53.60	1.5	
NEO	85.89	359 eP	02 53.00	1.0	
AGG	86.18	359 iP	02 53.62	0.1	
EVR	86.29	360 eP	02 56.00	1.9	
KHL	86.63	354 iP	02 57.10	1.3	
IZM	86.68	356 eP	02 56.00	0.0	
VLS	87.02	1 eP	02 59.00	1.4	
ITM	88.02	360 eP	03 03.00	0.6	
ARG	88.81	355 eP	03 07.00	0.8	
VAM	89.76	358 eP	03 12.00	1.3	
NPS	89.87	357 eP	03 11.00	-0.3	
IPM	92.30	281 ePc	03 24.80	2.1	
HYB	93.16	307 eP	03 26.00	-0.7	
PSI	95.03	282 eP	03 36.00	0.8	
GBA	97.01	306 Pc	03 43.80	-0.4	
	0.3s	1.10nm		4.9mb	
BUL	144.63	349 iPKPd	09 48.30	-1.1	
		ipPKP	09 57.50		
SPA	144.99	180 iPKPc	09 48.70	0.1	
	1.0s	20.00nm			
WIN	147.27	8 iPKPc	09 36.00	-17.8X	
	1.0s	40.00nm			
BFT	149.91	345 iPKPc	10 03.00	5.2X	
	1.0s	80.00nm			
SLR	150.19	348 iPKP	10 04.50	6.3X	
	1.0s	120.00nm			
KSR	150.47	350 iPKPc	10 04.50	5.9X	
	1.0s	30.00nm			
PRY	151.46	349 ePKP	10 09.00	8.9X	
SEK	152.83	348 iPKPd	10 09.50	7.5X	
	1.0s	60.00nm			
BLF	153.75	351 ePKP	10 11.00	7.7X	
FRS	154.46	353 iPKPd	10 05.50	1.6X	
	0.8s	26.00nm			
HVD	155.29	352 iPKPd	10 12.00	6.7X	
	S.D. = 1.1	on 229 of 261 obs.			

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* JAN 01, 1991 16h 31m 26.06± 1.48s
37.135 N ± 7.9km 29.647 E ±18.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

KSL	1.02	183 eP	31 44.50	-0.8	
		eS	32 05.40		
KHL	1.19	355 ePn	31 49.60	1.3	
ARG	1.53	234 eP	31 55.00	1.6	
ALT	1.95	11 ePn	32 04.00	4.4X	
IZM	2.27	304 ePn	32 03.00	-1.2	
SMG	2.31	285 eP	32 04.60	-0.1	
DST	2.59	342 ePn	32 08.00	-0.8	
	S.D. = 1.5	on 6 of 7 obs.			

? JAN 01, 1991 16h 42m 27.24± 1.49s
16.834 S ±37.9km 69.276 W ±16.7km
DEPTH = 187.6 ± 7.3 km
4.4mb (4 obs.)
PERU-BOLIVIA BORDER REGION (118)

LPB	1.17	75 iPd	42 57.30	-0.5	
ZOBO	1.24	63 P	43 00.00	1.5	
CNCB	1.24	89 iPd	42 59.00	0.5	
CCH	3.05	101 P	43 17.00	-0.6	
SIV	7.92	85 P	44 19.10	-1.5	
NNA	8.77	302 eP	44 31.00	-0.6	
	0.5s	4.23nm		4.1mb	
		eS	45 04.00		
PPD	17.71	110 eP	46 23.90	0.4	
LIC	67.50	76 Pc	53 05.80	0.3	
	0.3s	4.50nm		4.7mb	
TIC	67.66	75 P	53 06.40	-0.1	
KIC	67.82	76 Pc	53 08.02	0.6	
	0.4s	20.00nm		5.3mb	
YKA	86.69	341 eP	54 52.90	2.4X	
	0.6s	1.00nm		3.8mb	
	S.D. = 1.0	on 10 of 11 obs.			

JAN 01, 1991 17h 28m 02.49± 0.19s
21.208 S ± 6.0km 174.149 W ± 3.6km
DEPTH = 29.1km (6 depth phases)
5.7mb (43 obs.) 5.6Msz (24 obs.)
TONGA ISLANDS (173)
Ms 5.7 (BRK). Mo=2.0*10**18 Nm
(PPT).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 21S, 52C
Centroid Location:
Origin Time 17:28: 8.4 0.3
Lat 21.28S 0.04 Lon 173.98W 0.03
Dep 15.0 FIX Half-duration 3.6
Moment Tensor; Scale 10**17 Nm
Mrr= 6.99 0.14 Mtt= 0.76 0.20
Mff=-7.75 0.21 Mrt= 2.65 0.42
Mrf= 7.05 0.52 Mtf=-2.35 0.14
Principal Axes:

T	Val= 10.10	Plg=67	Azm=297
N	1.31	4	198
P	-11.42	22	106

Best Double Couple:Mo=1.1*10**18
NP1:Strike=188 Dip=23 Slip= 80
NP2: 19 67 94

AFI	7.60	18 P	29 47.10	-7.1X	
		eS	31 12.00		
SVA	7.61	293 eP	29 55.80	1.5	
VUN	7.66	293 eP	29 57.10	2.2	
MBU	7.95	301 eP	30 01.10	2.0	
SGE	8.30	294 ePd	30 08.20	4.2X	
NDF	8.64	292 eP	30 15.10	6.6X	
RAR	13.41	93 P	31 06.00	-7.3X	
PVC	16.89	279 iP	32 04.50	6.0X	
PUZ	18.04	200 eP	32 12.90	0.2	
DZM	18.06	264 iPd	32 14.80	1.6	
NOZ	18.61	199 P	32 22.90	3.2X	
PGZ	20.99	201 eP	32 46.30	0.4	
MTW	21.74	201 eP	32 54.30	0.9	
SNZO	22.15	203 Pd	33 07.00	9.5X	
		S	38 02.00		
TBI	22.94	100 iP	33 05.40	0.0	
	1.0s	90.00nm		5.2mb	
AFR	23.27	85 iP	33 09.40	0.8	
	1.2s	205.00nm		5.5mb	
PAE	23.43	86 iP	33 10.80	0.6	

01d 17h

1.2s 100.00nm 5.2mb
PPT 23.45 85 iP 33 11.10 0.7
1.2s 180.00nm 5.5mb
PPN 23.59 85 iP 33 11.30 -0.5
1.2s 120.00nm 5.3mb
TVO 23.71 86 iP 33 13.40 0.4
1.2s 260.00nm 5.6mb
PMO 25.68 80 iP 33 30.10 -1.7
1.2s 125.00nm 5.4mb
VAH 25.86 81 iP 33 31.60 -1.8
1.2s 45.00nm 5.0mb
TPT 25.94 81 iP 33 32.50 -1.7
1.2s 125.00nm 5.4mb
RUV 26.10 81 iP 33 33.70 -2.0
1.2s 100.00nm 5.3mb
SVO 27.79 292 P 33 51.00 -0.2
VSG 27.83 291 P 33 51.00 -0.6
BRS 30.71 252 eP 34 14.00 -3.3X
iS 38 48.00
RMO 34.25 254 eP 34 47.00 -1.2
i 37 27.90
CNB 34.87 238 eP 34 52.00 -1.5
e 37 28.00
RAB 36.82 293 eP 35 08.00 -2.1
CTA 37.01 264 iPd 35 09.00 -2.6
1.0s 35.00nm 5.2mb
iS 41 12.00
CMS 37.12 246 iPd 35 11.00 -1.4
1.3s 97.00nm 5.5mb
TOO 38.44 236 eP 35 22.00 -1.5
e 37 38.00
PMG 39.02 281 eP 35 23.00 -5.5X
BFD 40.65 237 eP 35 43.00 1.3
QIS 43.09 262 eP 35 59.00 -3.0X
i 37 52.10 678kmX
ADE 43.41 241 eP 36 02.70 -1.8
1.1s 40.51nm 5.1mb
HON 45.11 21 P 36 25.00 6.8X
Z 18s 3.30um 5.3Msz
JAY 47.69 287 ePd 36 38.20 -0.6
0.7s 105.30nm 6.0mb
ASPA 47.87 257 iPc 36 36.30 -3.8X
0.8s 136.00nm 6.0mb
Z 18s 10.20um 5.8Msz
ipP 36 46.70 36km
iPcS 41 57.50
iPcS 42 38.90
iS 43 28.60
eScS 46 30.20
KLB 61.01 245 eP 38 14.50 -1.4
NWAO 61.27 243 eP 38 16.00 -1.7
Z 20s 3.40um 5.5Msz
N 20s 1.70um
E 20s 3.80um
BAL 62.06 246 eP 38 21.00 -2.0
MUN 62.26 244 eP 38 23.30 -1.1
MRWA 62.90 247 eP 38 27.00 -1.6
DAV 65.48 289 eP 38 42.00 -3.5X
MAP 68.35 291 eP 39 03.00 -0.7
SPA 68.92 180 iPd 39 09.40 2.7X
1.1s 50.00nm 5.5mb
KAKJ 71.59 322 eP 39 21.40 -1.7
TRT 71.64 269 ePd 39 21.10 -2.8
CHJJ 72.16 322 eP 39 24.90 -1.6
IIDJ 72.40 321 eP 39 26.80 -1.2
OFUJ 72.84 325 P 39 29.50 -0.9
MAT 72.96 322 iPc 39 29.30 -1.9
1.0s 105.00nm 5.8mb
Z 20s 1.42um 5.2Msz
eS 48 53.00
WKYJ 72.96 318 eP 39 30.30 -1.1
NIIJ 72.99 322 eP 39 30.60 -0.7
YAMJ 73.07 324 P 39 31.30 -0.5
MTMJ 73.22 321 eP 39 31.40 -1.5
TSRJ 73.60 319 eP 39 31.50 -3.4X
TKSJ 73.78 317 eP 39 35.00 -1.0
KAGJ 74.11 313 eP 39 37.30 -0.7
BAG 74.12 295 eP 39 36.00 -2.5
KUSJ 74.34 330 P 39 37.60 -1.5
HOOJ 74.48 329 P 39 40.10 0.3
YONJ 74.92 318 P 39 41.20 -1.4
KUMJ 74.97 314 eP 39 41.40 -1.6
MRRJ 75.60 327 eP 39 45.40 -0.9
SHNJ 75.76 316 eP 39 45.70 -1.7
PRS 75.90 42 eP 39 49.40 1.2
GCC 75.97 41 eP 39 49.50 1.0
BCH 75.98 43 P 39 49.50 0.7

ASAJ 76.09 329 eP 39 49.10 0.0
SAO 76.13 41 eP 39 50.30 0.8
PRI 76.22 42 eP 39 51.20 1.1
LLA 76.35 42 eP 39 51.50 0.8
BRK 76.36 40 eP 39 51.50 0.8
BKS 76.37 40 eP 39 51.30 0.5
1.0s 91.80nm 5.7mb
Z 20s 3.80um 5.7Msz
N 20s 2.60um
E 20s 2.20um
iS 49 38.00
eLQ 59 17.20
eLR 03 13.20
MHC 76.38 41 eP 39 52.00 0.9
MWC 76.70 45 eP 39 53.00 0.0
BAR 76.71 47 eP 39 52.00 -0.9
PLM 76.98 46 eP 39 54.00 -0.6
RVR 77.02 45 eP 39 54.00 -0.5
PEC 77.10 46 P 39 54.80 -0.2
SBB 77.14 45 eP 39 54.00 -1.3
CMB 77.59 41 eP 39 57.50 -0.2
ORV 77.90 39 eP 39 59.70 0.4
CLC 77.97 44 eP 39 59.00 -0.8
WDC 77.98 38 eP 39 58.00 -1.6
GSC 78.17 45 eP 40 01.00 0.0
GLA 78.19 48 eP 40 01.00 -0.1
MIN 78.36 38 eP 40 02.10 0.1
TNP 79.58 42 P 40 08.60 -0.1
0.8s 25.29nm 5.3mb
KVN 79.62 41 P 40 08.50 -0.4
QZH 79.83 302 Pc 40 10.00 -0.1
Z 21s 2.40um 5.5Msz
SSE 80.93 308 Pc 40 15.50 -0.2
5.0s 800.00nm 6.0mb X
MAW 82.09 199 e(P) 40 24.00 2.8
NJ2 83.12 308 Pc 40 29.00 1.9
1.0s 70.00nm 5.7mb
Z 22s 0.53um 4.9Msz
MDJ 83.20 323 eP 40 25.50 -1.8
1.5s 200.00nm 6.0mb
Z 30s 1.70um 5.2MszX
pP 40 33.00 24km
GZH 83.22 298 eP 40 28.00 0.2
Z 36s 3.10um 5.4MszX
S 50 44.00
SVW 83.38 9 eP 40 27.30 -0.6
KGM 83.76 275 ePd 40 32.80 2.0
DAU 84.70 43 P 40 36.00 0.6
DL2 84.74 315 Pc 40 35.00 -0.1
Z 30s 7.40um 5.9MszX
N 20s 2.40um
E 20s 2.40um
SKS 51 00.00
PMR 84.92 12 eP 40 34.60 -0.9
1.1s 417.50nm 6.6mb
PV09 85.05 46 P 40 38.00 0.9
ALQ 85.07 50 eP 40 38.00 0.8
Z 18s 2.32um 5.6Msz
ANMO 85.07 50 P 40 38.50 1.3
1.3s 57.69nm 5.6mb
TTA 85.07 8 eP 40 36.40 0.0
CN2 85.09 321 Pc 40 36.00 -0.8
6.0s 1300.00nm 6.3mb X
Z 18s 2.30um 5.6Msz
N 18s 1.40um
E 18s 0.70um
eS 51 02.00
SNY 85.09 318 Pd 40 37.40 0.6
E 12s 0.80um
PNT 85.28 32 ePd 40 38.00 0.4
0.9s 41.00nm 5.6mb
KLU 85.48 13 P 40 39.00 0.5
ANM 85.76 4 eP 40 39.60 -0.1
WHN 85.78 305 Pc 40 42.00 1.5
1.2s 100.00nm 5.9mb
Z 18s 1.10um 5.3Msz
N 20s 3.10um
S 51 06.00
NEW 85.89 34 P 40 40.80 0.1
0.9s 15.35nm 5.2mb
TOA 85.98 13 eP 40 41.00 0.1
TIA 86.43 311 Pc 40 43.80 0.1
1.2s 100.00nm 5.9mb
Z 40s 1.80um 5.2MszX
S 51 08.00
IPM 86.83 276 ePc 40 47.80 1.7
1.2s 116.30nm 6.0mb

e 41 06.20 66kmX
LRM 87.00 38 eP 40 47.00 0.4
BW06 87.05 42 P 40 45.70 -1.2
0.8s 13.10nm 5.2mb
PSI 88.10 274 eP 40 53.00 0.8
1.1s 85.20nm 6.0mb
SNG 88.15 278 eP 40 53.50 1.1
1.3s 180.77nm 6.2mb
GOL 88.18 46 P 40 52.80 0.4
1.0s 10.75nm 5.1mb
Z 18s 1.52um 5.5Msz
FBA 88.20 11 eP 40 50.60 -1.0
GLD 88.30 46 P 40 56.00 3.1X
Z 20s 2.30um 5.6Msz
IMA 88.38 8 eP 40 52.20 -0.4
1.9s 457.64nm 6.5mb
BJI 88.95 314 eP 40 55.50 -0.1
2.0s 170.00nm 6.0mb
Z 18s 1.46um 5.4Msz
E 18s 1.12um
pP 41 03.00 23km
eSKS 51 28.00
GYA 90.14 298 iPc 41 02.00 0.3
4.0s 900.00nm 6.4mb X
Z 36s 1.40um 5.1MszX
pP 41 12.00 31km
SKS 51 35.00
S 51 47.00
sS 52 05.00
SES 90.36 35 eP 41 04.00 1.9
1.4s 106.00nm 5.9mb
TIY 90.45 311 Pc 41 03.50 0.7
Z 25s 2.10um 5.5MszX
N 17s 1.70um
MEO 90.73 53 iPc 41 06.00 1.9
EDM 90.78 32 eP 41 03.50 -0.4
LOE 90.90 288 iPc 41 06.50 1.3
NNT 90.93 283 iPd 41 06.20 0.8
XAN 91.44 306 Pc 41 08.90 1.5
NST 91.69 286 eP 41 13.00 4.2X
NNA 92.40 104 eP 41 25.50 13.2X
1.0s 9.00nm
Z 18s 1.03um 5.3Msz
HHC 92.44 313 Pc 41 13.00 1.0
Z 23s 1.30um 5.3MszX
N 17s 0.90um
E 17s 1.00um
BSI 92.48 275 ePc 41 14.50 1.9
KMI 92.89 296 Pc 41 16.50 2.0
1.2s 150.00nm 6.3mb
Z 20s 5.80um 6.0Msz
BDT 93.26 287 eP 41 17.20 1.2
1.0s 140.10nm 6.3mb
BTO 93.40 312 P 41 17.50 1.1
N 16s 0.90um
E 16s 1.30um
sP 41 25.00
SKS 51 53.00
UYO 93.59 55 eP 41 23.00 5.7X
CHG 93.88 289 iPc 41 20.60 1.7
1.0s 60.75nm 6.0mb
eS 52 08.00
CHTO 93.88 289 iPc 41 20.40 1.5
1.0s 63.50nm 6.0mb
pP 41 31.00 33km
INK 94.05 14 eP 41 18.00 -0.6
CD2 94.22 301 P 41 20.00 -0.3
Z 19s 2.30um 5.7Msz
YKA 95.68 24 eP 41 25.70 -0.5
0.9s 7.30nm 5.1mb
LZH 96.07 306 Pc 41 29.00 0.1
4.0s 380.00nm 6.2mb X
Z 30s 1.55um 5.3MszX
E 18s 1.20um
pP 41 38.00 28km
FFC 97.31 34 eP 41 42.00 8.3X
1.5s 38.00nm 5.7mb
CNC8 98.37 112 P 41 46.00 5.9X
LPB 98.38 111 P 41 56.00 16.0X
ePP 45 40.00
LR 14 10.00
ZOBO 98.47 111 eP 41 38.00 -2.6
Z 18s 2.85um 5.8Msz
LR 14 06.00
GTA 100.22 308 Pdiff 41 48.50 0.9
1.2s 20.00nm 5.5mb
Z 36s 2.50um 5.5MszX

	E 18s	1.10um				
		pP	41	55.20		
		PP	45	48.00		
MBC	102.73	12 ePdiff	42	00.00	2.3X	
PKI	108.40	293 Pdiff	42	24.48	-0.1	
	1.0s	6.00nm			5.7mb	
KKN	108.57	293 Pdiff	42	26.08	0.9	
DMN	108.67	293 Pdiff	42	26.96	1.3	
GKN	109.17	293 Pdiff	42	28.44	0.7	
RSNY	111.28	49 PKP	46	42.00	6.7X	
	Z 19s	2.40um			5.8Msz	
BAO	115.73	120 ePKP	46	52.90	8.1X	
SOB1	125.03	119 ePKP	47	04.90	2.4X	
SLR	128.51	206 ePKP	47	17.00	8.0X	
MAIO	131.21	300 ePKP	47	14.00	0.2	
		e	49	27.00		
		e	59	44.00		
SOD	132.01	349 ePKP	47	12.00	-2.2X	
		e	47	17.00		
NUR	138.56	346 ePKP	47	18.00	-8.8X	
		e	47	29.00		
NB2	140.02	356 PKP	47	19.00	-10.5X	
	0.9s	5.80nm				
UPP	140.49	351 iPKP	47	23.80	-6.4X	
HFS	140.71	354 ePKP	47	23.20	-7.5X	
	1.2s	37.70nm				
	Z 18s	1.05um			5.6Msz	
		LR	38	33.00		
TAB	141.36	305 ePKP	47	28.00	-4.8X	
EDR	143.80	8 ePKP	47	34.00	-2.2X	
	1.1s	143.00nm				
ELO	144.08	9 ePKP	47	33.90	-2.8X	
	1.0s	116.00nm				
EDU	144.10	8 ePKP	47	34.20	-2.5X	
EDI	144.68	9 ePKP	47	36.10	-1.6	
	1.0s	161.00nm				
MUD	144.71	357 iPKPd	47	37.40	-0.3	
	0.9s	130.00nm				
EBL	144.85	9 ePKP	47	36.70	-1.3	
	1.0s	208.00nm				
COP	145.22	353 iPKPd+	47	38.20	-0.4	
	0.9s	242.02nm				
EKA	145.26	9 PKPd	47	39.20	0.5	
	0.9s	63.90nm				
BSD	145.47	351 iPKPd	47	40.50	1.5	
	0.9s	220.00nm				
LWI	147.63	227 iPKP-	47	48.10	4.0X	
BRN	148.33	351 ePKP	47	47.50	3.8X	
WIT	148.44	359 ePKP	47	49.00	5.1X	
IAS	148.68	331 ePKP	47	49.00	4.5X	
KRA	149.13	342 ePKP	47	45.80	0.7	
	1.0s	74.00nm				
	Z 24s	1.70um			5.8MszX	
	E 24s	2.30um				
		e	47	50.20		
		e	47	56.60		
WTS	149.26	359 ePKP	47	49.00	3.8X	
	1.0s	101.00nm				
KSP	149.31	347 ePKPd	47	46.00	0.6	
	0.9s	82.00nm				
		id	47	50.70		
		i	48	06.50		
CLL	149.44	351 ePKP	47	45.00	-0.5	
CLL	149.44	351 iPKP	47	49.80	4.3X	
	1.2s	135.00nm				
		i	48	01.70		
BRG	149.72	350 ePKP	47	46.80	0.8	
		i	47	51.40		
		i	48	07.80		
		e	08	16.00		
VRI	150.05	330 ePKPc	47	55.00	8.4X	
MOX	150.27	353 iPKP	47	48.00	1.2	
	Z 20s	2.10um			5.9Msz	
		i	47	52.00		
BNS	150.29	358 ePKPc	47	52.20	5.4X	
	1.0s	94.00nm				
PRU	150.47	349 PKPc	47	52.50	5.4X	
	1.0s	50.60nm				
		e	48	03.50		
BBTK	150.47	315 ePKP	47	48.00	0.4	
		i	47	53.00		
ENN	150.50	360 ePKP	47	53.00	5.9X	
	1.0s	49.00nm				
HOF	150.57	352 iPKPd	47	53.50	6.2X	
	1.0s	57.00nm				
MLR	150.70	330 ePKP	47	50.00	2.2X	
BHL	150.82	302 PKPc	47	55.00	6.7X	
HRI	150.94	301 ePKP	47	54.00	5.5X	
TNS	150.97	357 ePKPd	47	54.90	6.9X	
CMP	151.28	331 ePKPc	47	57.00	8.5X	
ABH	151.36	358 ePKP	47	54.74	6.2X	
KHC	151.46	349 ePKP	47	49.60	0.9	
	1.0s	35.50nm				
	Z 18s	1.20um			5.7Msz	
	N 18s	0.60um				
	E 18s	1.00um				
		i	47	56.00		
		e	48	02.40		
GRB1	151.50	352 ePKP	47	48.70	0.0	
	1.2s	12.00nm				
	Z 20s	1.20um			5.7Msz	
		ic	47	51.60		
COZ	151.55	332 ePKPc	47	59.50	10.4X	
ZST	151.59	344 ePKP	47	50.50	1.6	
		i	47	57.60		
SRO	151.62	342 ePKP	47	50.50	1.6	
		i	47	57.70		
DSI	151.69	298 ePKP	47	55.00	5.5X	
DEV	151.70	334 ePKPd	47	57.50	8.4X	
BUD	151.70	341 e(PKP)	47	56.00	7.0X	
VKA	151.72	345 ePKP	47	47.00	-2.1	
	3.5s	757.00nm				
		i	47	56.70		
HRT	151.89	319 iPKP	47	56.20	6.6X	
FLN	152.04	9 ePKP	47	55.50	6.0X	
	0.8s	21.50nm				
	Z 18s	2.50um			6.1Msz	
ISK	152.11	320 ePKP	47	56.00	6.2X	
YLV	152.22	319 ePKP	47	55.70	5.5X	
GWF	152.26	357 PKP	47	56.97	7.1X	
CSS	152.26	305 ePKP	47	58.00	7.7X	
LDF	152.26	9 ePKP	47	56.10	6.3X	
	1.0s	30.00nm				
IZI	152.30	319 ePKP	47	44.00	-6.3X	
GRR	152.35	10 ePKP	47	56.50	6.5X	
BZS	152.43	336 ePKP	47	53.00	2.9X	
MBH	152.50	294 ePKP	47	57.00	6.1X	
ALT	152.63	316 iPKP	47	58.20	7.4X	
LPF	152.67	10 ePKP	47	57.40	7.0X	
	1.0s	62.00nm				
FUR	152.75	352 ePKP	47	58.60	8.0X	
CDF	152.83	358 PKP	47	58.00	7.2X	
BHG	152.95	350 iPKPc	47	59.40	8.6X	
KCT	153.03	320 ePKP	47	50.00	-1.2	
VITF	153.05	360 PKP	47	58.60	7.7X	
HAU	153.26	359 ePKP	47	58.70	7.4X	
	0.7s	13.25nm				
EDC	153.26	320 ePKP	47	51.00	-0.5	
FEL	153.34	357 PKP	47	57.80	6.3X	
MOF	153.40	358 PKP	47	59.75	8.2X	
KHL	153.41	315 iPKP	48	00.10	8.2X	
SLE	153.42	356 ePKPc	47	59.00	7.5X	
BSF	153.43	359 PKP	47	59.63	8.0X	
KBA	153.48	348 iPKPd	47	59.40	7.6X	
	1.1s	55.10nm				
		i	48	15.20		
WATA	153.53	351 iPKPc	47	59.00	7.1X	
	1.0s	30.50nm				
BEO	153.54	336 ePKP	48	01.00	9.3X	
SQTA	153.69	352 iPKPc	47	59.70	7.6X	
	1.0s	29.50nm				
		i	48	05.10		
ZLA	153.71	356 ePKPd	48	00.00	8.0X	
BBS	153.77	357 PKP	48	00.48	8.4X	
LOMF	153.91	358 PKP	48	00.78	8.5X	
LOR	153.95	3 ePKP	48	00.40	8.1X	
	1.0s	20.00nm				
	Z 18s	3.25um			6.2Msz	
PTJ	154.02	344 ePKP	47	53.00	0.5	
FVI	154.06	349 PKP	48	01.00	8.7X	
SSF	154.14	4 ePKP	48	00.90	8.4X	
	1.2s	59.50nm				
MFF	154.20	10 ePKP	48	00.90	8.3X	
LJU	154.23	346 ePKP	48	01.80	9.1X	
LBF	154.24	3 ePKP	48	00.90	8.2X	
	1.2s	44.65nm				
OSS	154.34	353 ePKPc	48	02.70	9.7X	
VOY	154.38	347 ePKP	48	01.30	8.3X	
AVF	154.40	4 ePKP	48	01.10	8.3X	
	1.1s	17.10nm				
EZN	154.50	321 ePKP	48	02.00	8.8X	
VBY	154.56	344 ePKP	47	54.00	0.9	
SMF	154.57	3 ePKP	48	01.40	8.3X	
	1.1s	17.10nm				
BGF	154.60	5 ePKP	48	01.60	8.5X	
	0.8s	12.75nm				
VDL	154.61	354 ePKPc	48	03.50	10.1X	
TRI	154.71	347 ePKP	47	54.00	0.8	
		e	52	52.00		
CTI	154.77	350 PKP	48	04.00	10.5X	
LSF	154.77	7 ePKP	48	01.60	8.2X	
	1.1s	31.75nm				
TCF	154.81	6 ePKP	48	01.80	8.4X	
	1.2s	22.30nm				
IZM	154.83	318 ePKP	48	02.00	8.3X	
MAF	154.91	5 ePKP	48	02.30	8.8X	
	1.1s	19.55nm				
TMA	155.04	355 ePKPd	47	57.00	3.0X	
DIX	155.16	357 ePKPc	48	05.00	10.8X	
MMK	155.16	356 ePKPc	48	04.90	10.7X	
VAI	155.29	355 PKP	47	58.20	4.2X	
MDI	155.29	354 PKP	48	04.00	10.0X	
SAL	155.36	352 PKP	48	02.00	7.9X	
VAY	155.46	329 ePKP	47	53.60	-0.8	
SKO	155.48	331 iPKP	47	54.80	0.3	
		i	51	59.00		
LPL	155.74	358 ePKP	48	05.30	10.3X	
	1.0s	12.00nm				
LPG	155.76	358 ePKP	48	05.30	10.2X	
	1.3s	18.05nm				
LFF	155.96	9 ePKP	48	04.30	9.3X	
	1.1s	26.85nm				
BNI	156.21	359 PKP	48	07.00	11.4X	
LPO	156.27	8 ePKP	48	05.20	9.7X	
	1.1s	19.55nm				
OHR	156.46	331 ePKP	47	52.80	-3.1X	
CKI	156.76	356 PKP	48	07.00	10.9X	
SFI	156.81	349 PKP	47	57.00	0.9	
CRE	157.07	349 PKP	48	10.00	13.3X	
SDI	158.49	344 PKP	48	11.00	12.7X	
BCAO	159.27	218 iPKPd	48	01.40	1.5	
	0.8s	28.00nm				
		i	48	38.30		
		i	52	37.30		
TOL	159.55	22 e(PKP)	48	01.00	1.5	
		ePKKP	48	40.00		
LIC	161.75	143 PKP	48	03.22	0.8	
	1.0s	14.50nm				
	Z 20s	1.13um				
KIC	162.03	144 PKP	48	03.66	1.0	
	1.0s	15.50nm				
TIC	162.10	142 PKP	48	03.66	0.9	
MAL	162.14	28 iPKP	48	17.00	14.9X	
		i	48	51.00		
IFR	164.35	36 iPKP	48	10.50	5.8X	

S.D. = 1.2 on 167 of 289 obs.

JAN 01, 1991 17h 43m 43.96± 0.53s
41.105 N ± 4.5km 22.447 E ± 4.5km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.1 (SKO).

GRG	0.15	193 iP	43	47.32	-0.2	
		iS	43	50.20		
VAY	0.24	23 iPg	43	49.40	0.4	
		iSg	43	53.00		
KNT	0.35	80 eP	43	51.08	0.0	
		eS	43	56.16		
THE	0.61	140 eP	43	55.60	-0.7	
		eS	44	03.88		
SOH	0.74	112 iP	43	58.16	-0.4	
		iS	44	08.53		
SRS	0.87	89 eP	44	00.32	-0.3	
		eS	44	12.64		
FNA	0.87	249 eP	44	00.52	-0.3	
		eS	44	11.68		
LIT	1.00	178 eP	44	03.48	0.5	
SKO	1.15	319 ePn	44	05.30	-0.2	
PAIG	1.51	141 iP	44	12.00	1.0	

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

? JAN 01, 1991 19h 18m 28.40± 5.95s
41.294 N ±25.6km 22.165 E ±34.5km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.9 (SKO).

VAY	0.31	85 iPg	18	34.70	-0.1	
		iSg	18	40.30		
GRG	0.38	152 iP	18	36.84	0.6	

01d 19h

```
              eS     18 39.72
KNT    0.57 103 eP   18 40.00   0.1
              iS     18 44.89
THE    0.90 137 eP   18 45.04  -0.5
              eS     18 52.40
SOH    1.02 117 iP   18 47.16  -0.5
              iS     18 58.12
OHR    1.05 260 eP   19 04.30  16.1X
SRS    1.09  99 eP   18 49.48   0.6
              eS     19 01.10
LIT    1.22 168 iP   18 51.00  -0.1
   S.D. = 0.5  on   7 of   8 obs.
------------------------------------------
 JAN 01, 1991  19h 18m 56.48± 0.20s
 39.822 N ± 4.9km   48.439 E ± 2.8km
 DEPTH = 60.7km  ( 18 depth phases)
 4.9mb ( 43 obs.)
N.W. IRAN-USSR BORDER REGION     (344)
   Felt (V) in the Imishli area;
   (IV) at Zardob and Sabirabad;
   (III) at Baku, Shemakha, Sheki
   and Dzhebrail, USSR. Felt in the
   Bileh Savar-Parsabad-Garmi-
   Aslanduz area, Iran.
TAB    2.40 224 iPd  19 36.50   2.2
TEH    4.70 149 eP   20 07.00   0.4
KER    5.56 191 eP   20 21.00   2.3
MAIO   9.40 108 iPd  21 08.20  -3.6X
     0.6s    84.18nm         5.9mb X
              eS     22 48.00
KAS   11.27 283 iPc  21 40.80   3.6X
BBTK  12.06 275 eP   21 49.00   1.2
DHR   13.56 173 iPc  22 06.50  -0.9
BBU   13.67 172 iP   22 17.00   8.0X
     0.4s    72.00nm         5.7mb
HRT   14.36 280 eP   22 19.60   1.7
IZI   14.53 278 eP   22 26.00   5.7X
YLV   14.60 279 eP   22 22.00   0.9
ISK   14.81 281 eP   22 25.00   1.2
RYD   15.14 186 eP   22 27.00  -1.1
KCT   15.39 278 eP   22 30.00  -1.3
TLB   15.84 294 eP   22 36.00  -0.9
IAS   16.81 303 eP   22 50.00   0.9
ISR   16.98 295 eP   22 59.00   7.7X
VRI   17.01 298 eP   22 56.00   4.4X
CVO   17.37 297 eP   23 12.00  15.8X
MLR   17.47 296 eP   23 04.00   6.6X
PVL   17.62 289 eP   23 02.00   2.8X
CMP   18.06 295 ePd  23 09.00   4.4X
RZN   18.06 284 eP   23 07.00   2.2
MMB   18.81 283 eP   23 15.00   1.3
SRS   18.94 282 eP   23 15.34   0.1
PAIG  18.99 278 eP   23 15.66  -0.2
SOH   19.14 281 eP   23 18.78   1.2
VTS   19.17 286 eP   23 19.30   1.4
KNT   19.46 282 eP   23 20.90   0.0
BMR   19.59 302 ePd  23 24.00   1.7
DEV   19.63 296 ePd  23 26.00   3.3X
VAY   19.69 283 iP   23 23.50   0.2
GRG   19.85 282 iP   23 25.61   0.6
LIT   19.88 279 eP   23 25.38   0.1
AGG   20.17 276 eP   23 28.34   0.0
BZS   20.49 295 eP   23 34.00   2.4
SKO   20.49 285 iP   23 32.60   0.9
              i      23 54.20 112kmX
FNA   20.64 281 iP   23 34.17   0.9
OHR   21.04 282 iP   23 37.80   0.5
     1.4s   141.00nm         5.1mb
              i      23 49.30  47kmX
KSH   21.19  82 iPd  23 40.00   1.1
BEO   21.23 293 e(Pg) 23 40.50  1.4
     1.5s     0.14nm         2.1mb X
              iSg    23 54.50
IGT   21.60 278 iP   23 46.06   3.1X
KRA   22.49 306 eP   23 52.50   0.9
     1.0s    62.00nm         5.0mb
              e      24 08.40  70km
              e      24 13.90
BUD   22.52 300 e(P) 24 07.00  15.1X
SRO   23.05 300 eP   24 01.80   4.8X
              e      24 27.30 124kmX
LCI   23.28 281 P    23 59.00  -0.3
BRT   23.77 283 Pc   24 05.40   1.3
ZST   23.91 301 eP   24 07.20   1.8
              e      24 23.70  72kmX
HVAR  24.12 288 iP   24 08.40   1.0

VKA   24.44 301 iPc  24 11.10   0.6
              i      24 26.20  64km
              i      24 50.10
PTJ   24.46 295 eP   24 11.00   0.2
ORI   24.46 281 P    24 13.00   2.2
TDS   24.62 280 P    24 11.00  -1.3
VBY   24.94 294 e(P) 24 21.00   5.7X
KSP   24.95 307 eP   24 15.50   0.2
     0.9s    35.00nm         4.8mb
              i      24 17.20   6kmX
              i      24 30.80
NUR   25.44 332 iP   24 19.40  -0.4
     0.7s    56.10nm         5.2mb
              i      24 34.20  62km
LJU   25.46 295 eP   24 21.00   0.8
CEY   25.52 295 eP   24 37.00  16.2X
DUI   25.72 285 P    24 24.00   1.3
PRU   25.87 304 eP   24 27.00   3.1X
              e      24 40.70  56km
              e      25 02.00
VOY   25.90 295 eP   24 25.40   1.0
KAF   26.05 336 eP   24 26.60   1.1
NDI   26.15 106 iPd  24 26.50  -0.2
SDI   26.19 285 P    24 29.00   2.0
KHC   26.36 302 eP   24 28.50   0.0
     1.2s    20.00nm         4.5mb
              e      24 47.90  86kmX
BRG   26.41 306 iP   24 32.30   3.5X
     0.8s    12.00nm         4.5mb
              e      24 44.30  47kmX
              i      25 44.80
              e      28 40.20
AZI   26.44 286 Pc   24 47.20  18.0X
ARV   26.65 290 P    24 32.50   1.3
FVI   26.69 296 P    24 31.00  -0.4
ASS   26.89 289 P    24 39.50   6.1X
CLL   27.07 307 eP   24 36.00   1.1
     0.7s    11.00nm         4.6mb
              i      24 51.00  62km
CRE   27.35 290 P    24 39.00   1.3
SFI   27.40 291 P    24 39.50   1.5
CTI   27.47 295 P    24 39.00   0.3
WATA  27.54 298 iPc  24 38.20  -1.2
     1.0s    39.40nm         5.0mb
              i      24 51.30  53km
              i      24 52.70
GRB1  27.64 302 eP   24 40.50   0.4
              e      24 55.80  64km
SOTA  27.79 298 iPc  24 40.40  -1.2
              i      24 56.40  68km
              i      27 56.40
UPP   27.81 326 iP   24 56.70  15.2X
FIR   27.84 290 eP   25 01.00  19.0X
OGA   27.90 297 eP   24 42.00  -0.7
MME   28.21 291 P    25 00.40  14.8X
SAL   28.26 294 P    24 57.50  11.8X
OSS   28.51 297 ePc  24 47.50  -0.6
MDI   28.82 295 P    24 50.90   0.2
VDL   28.97 296 ePd  25 07.10  14.7X
SAX   29.06 298 ePd  24 52.00  -1.2
BOB   29.06 293 P    24 58.00   4.9X
LLS   29.29 297 ePd  24 53.80  -1.5
WMQ   29.34  69 Pd   24 55.50   0.0
   Z  18s     0.60um         4.3Msz
TMA   29.40 295 ePd  24 55.10  -1.1
VAI   29.48 295 P    24 56.50  -0.1
HFS   29.66 325 eP   24 57.70  -0.5
     0.5s    10.10nm         4.8mb
   Z  18s     0.61um         4.3Msz
              LR     38 02.00
CKI   29.92 292 P    24 58.00  -2.6X
SOD   30.13 343 iP   25 04.00   1.8
              i      25 18.20  57km
DIX   30.42 296 ePc  25 04.70  -0.6
CDF   30.46 300 eP   25 03.00  -2.4
EMS   30.75 296 ePd  25 06.80  -1.3
BSF   30.78 299 eP   25 06.10  -2.2
LPG   30.91 294 eP   25 08.40  -1.3
     0.5s     3.30nm         4.3mb
LPL   30.93 294 eP   25 08.30  -1.4
     0.5s     3.30nm         4.3mb
BNI   31.01 294 P    25 10.00  -0.3
HAU   31.08 299 eP   25 09.00  -1.8
     0.7s     5.50nm         4.4mb
NB2   31.16 325 P    25 09.60  -1.8
     0.8s    12.10nm         4.7mb
FRF   31.19 291 eP   25 10.80  -1.0

     0.6s     4.50nm         4.4mb
KEV   32.06 346 eP   25 31.00  11.9X
GKN   32.06 100 Pd   25 19.46  -0.3
     0.5s   105.00nm         5.9mb X
DMN   32.62 101 Pd   25 24.64  -0.1
KKN   32.66 100 Pd   25 24.50  -0.5
     0.7s    32.00nm         5.3mb
LBF   32.73 298 eP   25 23.40  -1.8
     0.7s     5.50nm         4.5mb
LOR   32.79 298 eP   25 23.90  -1.8
     0.5s     3.65nm         4.5mb
SMF   32.85 297 eP   25 24.80  -1.4
     0.7s     4.40nm         4.4mb
PKI   32.87 100 Pd   25 26.54  -0.5
SSF   33.04 298 eP   25 26.30  -1.6
     0.7s     4.40nm         4.4mb
GUN   33.05  99 Pd   25 28.24  -0.4
     1.1s   180.00nm         5.8mb
AVF   33.17 297 eP   25 27.60  -1.4
     0.7s     8.25nm         4.7mb
MAF   33.76 296 eP   25 33.30  -0.9
     0.7s     8.25nm         4.7mb
TCF   34.00 296 eP   25 35.30  -1.0
     0.7s     2.75nm         4.3mb
HYB   34.33 122 eP   25 42.50   3.1X
LSF   34.47 296 eP   25 39.00  -1.3
     0.7s     6.60nm         4.7mb
RJF   34.60 295 eP   25 40.90  -0.5
LDF   35.37 301 eP   25 46.60  -1.3
     0.6s     7.20nm         4.8mb
FLN   35.60 301 eP   25 48.50  -1.3
     0.5s     5.10nm         4.7mb
LPF   36.03 300 eP   25 52.60  -0.9
     0.6s     9.00nm         4.9mb
EBR   36.21 287 eP   26 10.00  15.0X
LSA   36.22  93 P    25 58.00   2.2
GBA   36.48 128 P    25 58.90   1.4
GTA   39.13  74 iPd  26 21.50   1.8
     3.2s   350.00nm         5.7mb X
   Z  14s     0.50um         4.5MszX
KOD   39.16 131 eP   26 20.00  -0.3
TOL   39.80 288 eP   26 41.00  15.8X
IFR   42.89 279 eP   26 41.00  -9.7X
LZH   43.26  77 iPd  26 54.50   0.8
     1.4s    96.00nm         5.4mb
   Z  30s     0.57um         4.3MszX
              pP     27 04.50  34kmX
              sP     27 10.50
              PP     28 41.00
BCAO  44.39 225 iPc  27 02.10  -0.7
     1.0s    40.00nm         5.2mb
              i      27 16.50  55km
CD2   45.36  83 eP   27 10.30  -0.1
     1.1s   100.00nm         5.6mb
TIO   45.64 277 iP   27 26.00  13.2X
BTO   46.17  68 P    27 18.50   1.7
HHC   47.18  67 Pd   27 26.40   1.6
     1.2s   100.00nm         5.6mb
   Z  20s     0.60um         4.6Msz
KMI   47.41  91 Pd   27 27.50   0.5
     1.5s   160.00nm         5.8mb
XAN   47.90  77 iPd  27 31.00   0.6
CHG   48.05 101 iPd  27 31.90   0.2
     1.0s    12.50nm         4.9mb
CHTO  48.05 101 iPd  27 31.80   0.1
     0.9s    11.08nm         4.8mb
TIY   48.98  71 eP   27 39.80   1.1
   Z  20s     0.60um         4.6Msz
BDT   49.05 102 eP   27 39.60   0.3
GYA   49.74  87 iPd  27 44.60  -0.2
BJI   50.75  67 eP   27 52.00  -0.1
     1.0s    19.00nm         5.1mb
NNT   52.53 106 eP   28 03.80  -2.0
              e      59 53.30
WHN   53.58  78 Pd   28 14.20   0.8
DL2   55.06  66 eP   28 24.00  -0.1
     1.0s   200.00nm         6.1mb X
CN2   55.58  59 Pd   28 28.00   0.2
   Z  20s     1.80um         5.2Msz
              epP    28 44.00  60km
NJ2   56.21  74 eP   28 32.00  -0.6
     0.9s    40.00nm         5.5mb
KIC   58.07 250 Pc   28 43.34  -2.5
     0.5s     5.50nm         4.9mb
TIC   58.07 250 P    28 43.26  -2.6
LIC   58.37 250 Pc   28 45.42  -2.5
     0.5s    14.00nm         5.4mb
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SSE	58.42	74	Pd	28	47.50	-0.6
	1.0s	41.00nm			5.5mb	
PSI	58.72	116	eP	28	50.00	-0.3
IPM	58.87	112	eP	28	50.00	-1.4
KRI	59.03	201	iPd	28	44.00	-8.5X
BUL	62.46	201	iPd	29	15.00	-0.8
MBC	63.95	357	eP	29	25.50	0.7
	0.8s	15.00nm			5.0mb	
		pP		29	41.00	57km
FRB	65.43	334	eP	29	35.00	0.5
		pP		29	50.00	54km
MAT	67.63	61	eP	29	47.00	-2.0
SLR	67.87	200	iP	29	49.00	-1.6
	0.9s	50.00nm			5.5mb	
INK	72.18	1	eP	30	16.00	-0.1
FRS	72.48	201	iP	30	20.00	1.8
ANM	72.60	15	e(P)	30	18.40	-0.3
IMA	73.06	9	eP	30	20.90	-0.6
		i		30	38.10	63km
FBA	74.84	7	eP	30	31.60	0.0
		i		30	48.00	59km
YKA	77.12	352	eP	30	51.50	7.0X
	0.5s	0.60nm			3.8mb X	
SVW	77.52	12	eP	30	36.90	-9.9X
TOA	77.74	7	e(P)	30	46.90	-1.1
		i		31	06.00	70km
PMR	77.93	8	e(P)	30	49.40	0.5
		e		31	05.90	59km
FFC	82.47	343	eP	31	13.00	-0.3
	0.4s	5.00nm			4.9mb	
SES	88.37	347	eP	31	44.00	1.3
		pP		32	01.00	60km
TNP	101.36	348	Pdiff	32	59.50	17.1X
S.D. = 1.2	on 136 of 173 obs.					

? JAN 01, 1991 19h 28m 50.80± 1.13s
47.858 N ±15.2km 7.653 E ± 6.7km
DEPTH = 10.0km (geophysicist)
SWITZERLAND (544)
ML 2.2 (LDG).

FEL	0.24	86	ePg	28	56.03	0.0
BSF	0.58	268	Pg	29	02.80	0.2
			Sg	29	09.50	
CDF	0.61	336	Pg	29	03.20	0.0
			Sg	29	10.00	
HAU	0.89	280	Pg	29	07.70	-0.2
			Sg	29	17.80	
S.D. = 0.3	on 4 of 4 obs.					

JAN 01, 1991 19h 55m 22.00± 0.70s
41.077 N ± 5.6km 22.396 E ± 5.4km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.8 (SKO).

GRG	0.12	178	iP	55	25.25	0.2
			eS	55	27.42	
VAY	0.28	28	iPg	55	28.00	0.2
			iSg	55	31.70	
KNT	0.39	77	iP	55	29.97	0.0
			eS	55	35.50	
THE	0.62	136	iP	55	33.78	-0.7
			eS	55	42.18	
SOH	0.77	109	iP	55	36.82	-0.2
			eS	55	49.18	
FNA	0.83	250	eP	55	37.74	-0.3
			eS	55	50.02	
SRS	0.90	87	eP	55	39.22	-0.1
			eS	55	51.42	
LIT	0.98	176	eP	55	40.74	0.2
			eS	55	56.94	
PAIG	1.51	139	eP	55	49.82	0.8
S.D. = 0.5	on 9 of 9 obs.					

JAN 01, 1991 20h 13m 44.90± 0.54s
39.816 N ± 4.5km 28.669 E ± 5.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.8 (ISK).

DST	0.21	188	iPg	13	49.00	-0.6
			eSg	13	52.00	
KCT	0.49	331	iPg	13	55.10	0.2
			iSg	14	02.60	
BNT	0.79	313	iPg	14	00.60	0.4
			eSg	14	11.60	
IZI	0.81	50	iPg	14	00.10	-0.5
EDC	0.81	311	ePg	14	00.50	-0.2
YLV	0.92	36	iPg	14	02.10	-0.5
			eSg	14	15.60	
HRT	1.26	37	iPn	14	08.60	0.2
ALT	1.35	124	iPn	14	10.90	1.1
KHL	1.63	156	ePn	14	13.70	-0.2
S.D. = 0.6	on 9 of 9 obs.					

JAN 01, 1991 20h 40m 21.55± 1.15s
5.030 N ± 8.0km 94.376 E ± 7.9km
DEPTH = 65.6 ± 11.0 km
4.6mb (9 obs.)
NORTHERN SUMATERA (706)

BSI	1.02	63	ePc	40	40.60	0.2
PSI	5.10	117	iPd	41	36.80	-0.4
SNG	6.56	71	eP	41	57.20	-0.4
IPM	6.64	94	ePd	41	58.90	0.1
			e	43	24.30	
			e	44	40.40	
NNT	9.19	35	eP	42	32.20	-1.7
BDT	12.96	20	eP	43	26.00	1.5
CHG	14.41	18	eP	43	44.90	1.3
CHTO	14.41	18	eP	43	44.10	0.5
	0.9s	4.05nm			3.8mb	
			i	43	49.30	
KOD	17.53	288	eP	44	35.00	11.5X
GBA	18.75	298	P	44	38.20	0.2
			S	47	39.20	
HYB	19.79	310	eP	44	49.00	-0.4
			e	45	00.00	
KMI	21.53	21	Pd	45	09.00	1.6
TRT	22.18	125	ePd	45	13.60	0.0
PKI	23.99	340	P	45	31.18	-0.4
DMN	24.13	340	P	45	32.44	-0.4
	0.7s	12.00nm			4.5mb	
GUN	24.15	341	P	45	31.58	-1.5
KKN	24.23	340	P	45	33.22	-0.6
	0.8s	12.00nm			4.4mb	
GYA	24.33	28	iPd	45	34.80	0.2
GKN	24.65	339	P	45	37.24	-0.5
	0.7s	24.00nm			4.8mb	
LSA	24.73	353	iP	45	39.60	0.8
WHN	31.59	34	eP	46	41.20	1.0
XAN	31.87	23	iPc	46	41.70	-1.0
LZH	32.11	15	eP	46	42.50	-2.4
	1.4s	16.00nm			4.7mb	
GTA	34.58	7	Pc	47	05.80	-0.4
	1.0s	10.00nm			4.7mb	
NJ2	35.32	37	Pc	47	12.50	0.0
TIY	36.47	24	eP	47	27.40	5.2X
Z	16s	0.50um			4.4MszX	
WMO	39.08	352	P	47	44.60	0.6
BJI	40.01	26	eP	47	52.00	0.4
	1.0s	12.00nm			4.7mb	
VRI	70.91	317	eP	51	34.00	0.2
BCAO	75.54	273	ePd	52	02.90	1.4
	0.3s	3.00nm			4.7mb	
ZST	77.79	318	e(P)	52	25.30	12.0X
			e	59	50.20	
BRG	80.08	321	e(P)	52	40.00	14.3X
HFS	81.02	330	eP	52	30.50	0.1
	0.5s	1.50nm			4.2mb	
SQTA	81.69	317	i(P)	52	47.10	12.7X
	0.6s	4.60nm				
			id	52	48.60	
YKA	109.12	14	ePKP	59	07.80	22.7X
	0.6s	0.20nm				
S.D. = 1.0	on 29 of 35 obs.					

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* JAN 01, 1991 20h 40m 53.64± 1.42s
20.320 S ±12.9km 177.416 W ±13.3km
DEPTH = 486.7 ± 17.0 km
5.1mb (4 obs.)
FIJI ISLANDS REGION (181)

AFI	8.35	41	eP	42	54.00	-0.7
			eS	44	27.00	
DZM	15.15	261	iPd	44	09.00	2.7
PUZ	18.08	191	eP	44	36.30	1.2
WLZ	18.49	198	eP	44	39.70	0.7
NOZ	18.65	191	eP	44	42.10	1.5
MNG	21.12	195	eP	45	01.70	-2.4
BRS	28.11	250	iP	46	07.10	0.2
RMQ	31.59	252	iPd	46	37.40	0.5
	0.6s	51.00nm			5.2mb	
CNB	32.78	236	iPd	46	46.70	-0.2
CMS	34.73	244	eP	47	03.60	0.3
TOO	36.44	234	eP	47	16.00	-1.5
OIS	40.19	262	iPd	47	46.30	-1.9
ASPA	45.10	256	iPd	48	25.00	-2.1
	0.7s	124.50nm			5.5mb	
			iS	54	24.90	
KNA	51.20	266	iPd	49	11.20	-1.9
	0.4s	30.00nm			5.0mb	
MAT	70.39	323	eP	51	19.00	-0.4
CHG	90.70	290	eP	53	06.90	1.9
CHTO	90.70	290	iPd	53	06.90	1.9
	0.6s	4.77nm			4.6mb	
SES	91.40	36	eP	53	09.00	1.4
YKA	96.12	25	eP	53	28.50	-0.3
	0.8s	0.40nm			3.7mb X	
SOB1	128.13	120	ePKP	59	06.30	0.2
NB2	138.87	354	PKP	59	14.20	-10.8X
	0.7s	1.20nm				
HFS	139.45	351	ePKP	59	16.90	-9.0X
	0.7s	6.40nm				
LWI	145.89	232	iPKP-	59	40.10	1.4
KRA	147.28	339	ePKP	59	42.00	2.4X
KSP	147.68	344	iPKPd	59	43.70	3.5X
CLL	148.01	348	iPKP	59	44.00	3.3X
	0.6s	26.00nm				
BRG	148.22	346	iPKP	59	45.00	3.9X
	0.8s	16.00nm				
PRU	148.91	345	PKPd	59	46.20	4.1X
	0.6s	12.20nm				
KHC	149.93	346	ePKP	59	49.50	5.7X
BCAO	157.85	227	ePKPc	59	56.00	0.4
	0.3s	13.00nm				
			i	00	31.80	
LIC	164.16	151	PKP	00	01.00	-0.9
KIC	164.41	152	PKP	00	01.20	-1.0
TIC	164.53	150	PKP	00	01.40	-0.9
S.D. = 1.5	on 25 of 33 obs.					

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* JAN 01, 1991 21h 37m 02.29± 1.69s
3.199 S ±11.3km 38.178 E ±20.2km
DEPTH = 10.0km (geophysicist)
4.2mb (1 obs.)
KENYA (570)

NAI	2.35	324	eP	37	42.00	0.2
	1.0s	20.00nm				
			iS	38	31.00	
IKZ	8.84	218	iPn	39	25.50	12.3X
			iSn	41	07.00	
			iSb	41	45.60	
			iSg	42	08.00	
LWI	9.42	276	iPd	39	21.40	0.1
NPA	11.86	175	eP	39	54.60	0.0
			e	41	45.30	
PTZ	12.89	211	iPn	40	03.80	-4.7X
			iSn	43	03.50	
			iSb	43	34.00	
			iSg	44	01.20	
LSZ	15.52	219	iPn	40	39.00	-4.1X
			iSn	44	21.50	
			iSb	44	51.50	
			iSg	45	28.00	
KMZ	15.90	229	iPn	40	48.00	0.1
			iSn	43	49.00	
			iSb	45	05.10	
			iSg	45	42.60	
BCAO	21.04	291	iPd	41	48.50	-0.4
	0.9s	11.00nm			4.2mb	
S.D. = 0.4	on 5 of 8 obs.					

& JAN 01, 1991 22h 11m 31.03s
60.606 N 151.933 W
DEPTH = 96.7km
3.0mb (1 obs.)
KENAI PENINSULA, ALASKA (14)
<AEIC>.

NKA	0.37	68	iP	11	47.03	1.3
REF	0.40	253	iP	11	45.55	-0.7
			eS	11	56.55	
RDN	0.42	258	iP	11	45.46	-0.8
			iS	11	56.56	
RSO	0.43	251	iP	11	45.80	-0.7
			iS	11	57.23	
RS2	0.43	251	iP	11	45.84	-0.6
			iS	11	57.29	

01d 22h

NCT	0.49	265	eP	11 45.84	-0.9
			eS	11 57.62	
SPU	0.58	354	eP	11 46.54	-0.9
			eS	11 59.61	
CKL	0.62	342	iP	11 46.95	-0.9
			eS	11 59.74	
NNL	0.65	150	iP	11 48.38	0.5
BGL	0.70	341	eP	11 47.64	-0.8
			eS	12 01.45	
CGLM	0.71	357	eP	11 47.75	-0.8
INE	0.78	226	iP	11 48.43	-1.0
NCG	0.81	352	eP	11 48.86	-0.7
			eS	12 02.91	
SLKM	0.85	96	iP	11 49.07	-0.9
HOM	0.96	171	eP	11 49.90	-1.1
			eS	12 06.57	
BRLK	0.99	148	eP	11 50.96	-0.5
			eS	12 05.65	
SUA	1.04	33	iP	11 51.45	-0.6
			eS	12 06.63	
CNPM	1.14	162	eP	11 52.54	-0.6
			eS	12 09.08	
OPT	1.16	215	eP	11 52.96	-0.4
			eS	12 09.47	
XLV	1.16	175	eP	11 52.73	-0.6
			eS	12 09.77	
PMS	1.32	60	eP	11 54.57	-0.8
			eS	12 13.05	
SEW	1.33	111	eP	11 54.15	-1.2
			eS	12 12.46	
SKT	1.39	8	iP	11 55.09	-1.1
PDB	1.40	235	iP	11 55.19	-1.0
			eS	12 13.69	
PWA	1.45	43	eP	11 55.86	-0.9
PLRM	1.68	53	eP	11 58.07	-1.7
GHO	1.87	50	iP	12 00.76	-1.6
			eS	12 23.52	
MCNL	1.87	221	iP	12 01.41	-0.9
KNK	1.88	63	eP	12 00.66	-1.7
			eS	12 23.50	
CDD	1.89	208	eP	12 01.87	-0.7
CUT	1.97	23	eP	12 02.27	-1.3
KNIM	2.09	95	eP	12 02.46	-2.8
MTU	2.22	104	eP	12 04.83	-2.1
GLI	2.39	81	eP	12 07.66	-1.6
			eS	12 33.91	
VZW	2.67	78	eP	12 10.85	-2.2
VLZ	2.79	77	eP	12 11.77	-2.8
			eS	12 43.56	
KLU	3.06	70	eP	12 15.81	-2.5
TOA	3.16	59	eP	12 17.97	-1.7
			eS	12 53.87	
RND	3.16	26	eP	12 18.50	-1.3
TZL	3.45	62	eP	12 21.59	-2.1
SDG	3.61	55	eP	12 24.44	-1.5
PAX	3.88	49	eP	12 27.91	-1.7
CCB	4.48	23	eP	12 35.55	-2.3
MDM	4.69	20	eP	12 38.57	-2.2
BALM	4.71	81	eP	12 39.24	-1.9
GLM	4.87	23	eP	12 40.73	-2.5
YKA	17.72	68	eP	15 31.40	-1.2
	1.0s		0.90nm		3.0mb
	47 obs. associated				

? JAN 01, 1991 23h 19m 20.05± 7.41s
4.417 N ±44.3km 76.416 W ±24.6km
DEPTH = 97.4 ± 49.9 km
COLOMBIA (103)
MD 3.5 (UVC).

HOBC	0.29	102	iPc	19 34.58	0.0
BUGC	0.54	163	eP	19 36.41	0.1
CLMC	0.55	195	eP	19 36.69	0.3
			eS	19 50.70	
HOQC	0.97	193	eP	19 40.56	0.1
ANCC	1.00	207	eP	19 40.17	-0.5
			eS	19 56.80	
DIAC	1.14	169	iPc	19 41.84	-0.5
SALC	1.46	191	eP	19 46.48	0.2
			eS	20 07.90	
PURC	2.08	179	eP	19 54.88	0.2
			eS	20 21.90	
S.D. = 0.4		on	8 of	8 obs.	

% JAN 01, 1991 23h 21m 03.57± 0.85s
3.588 N ± 6.2km 76.354 W ± 7.0km
DEPTH = 10.0km (geophysicist)

COLOMBIA (103)
MD 2.6 (UVC).

HOQC	0.30	247	iPd	21 10.30	0.3
			eS	21 15.00	
DIAC	0.33	152	iPc	21 10.50	0.0
			eS	21 15.30	
CLMC	0.36	324	iPd	21 11.00	0.0
			eS	21 16.20	
ANCC	0.52	262	eP	21 13.80	-0.3
HOBC	0.79	16	eP	21 19.10	0.0
			eS	21 28.10	
S.D. = 0.3		on	5 of	5 obs.	

• JAN 01, 1991 23h 57m 01.75± 0.51s
36.736 N ±10.6km 71.402 E ± 9.4km
DEPTH = 33.0km (normal)
4.2mb (3 obs.)
AFGHANISTAN-USSR BORDER REGION (717)

NDI	9.40	147	eP	59 22.00	4.0X
			eS	00 55.00	
MAIO	9.60	271	iPc	59 19.50	-1.2
			eS	01 03.00	
GKN	14.16	124	P	00 22.00	-0.2
KKN	14.73	123	P	00 29.00	-0.7
DMN	14.73	124	P	00 30.00	0.2
PKI	14.96	124	P	00 31.80	-1.0
GUN	15.06	122	P	00 33.60	-0.5
HYB	20.26	160	eP	01 39.00	1.8
GBA	23.66	165	P	02 11.60	0.5
			S	06 51.60	
HFS	43.08	322	eP	05 00.70	0.7
	0.3s		2.70nm		4.5mb
NB2	44.39	323	P	05 10.10	-0.5
	0.4s		1.70nm		4.2mb
MBC	67.09	3	eP	07 54.00	0.6
INK	73.62	9	eP	08 34.00	0.9
YKA	81.00	3	eP	09 13.40	-0.6
	0.6s		1.10nm		4.0mb
S.D. = 1.0		on	13 of	14 obs.	

JAN 02, 1991 00h 13m 56.64± 0.59s
43.129 N ± 4.4km 28.546 E ± 6.7km
DEPTH = 10.0km (geophysicist)
BLACK SEA (360)

PSN	0.61	335	iPgd	14 08.10	-0.9
DMK	1.43	204	iPn	14 23.00	0.4
TLB	1.51	346	ePd	14 24.00	0.4
JMB	1.59	246	iPgd	14 27.40	2.5X
CFR	2.08	352	eP	14 31.50	-0.4
ISK	2.10	169	iPn	14 32.00	-0.2
PVL	2.35	273	eP	14 37.90	2.0
			iSg	15 16.80	
HRT	2.45	160	iPn	14 38.00	0.6
YLV	2.63	166	iPn	14 40.50	0.5
KDZ	2.75	239	iPd	14 43.00	1.4
BNT	2.81	190	iPn	14 42.00	-0.4
EDC	2.83	191	ePn	14 43.00	0.3
IZI	2.87	166	iPn	14 43.20	-0.2
ALN	2.91	221	eP	14 43.70	0.0
MLR	3.01	323	eP	14 54.50	9.1X
VRI	3.03	335	ePd	14 49.00	3.4X
RZN	3.18	244	iPc	14 48.20	0.4
CMP	3.31	311	ePc	15 02.00	12.5X
DST	3.52	179	ePn	14 51.90	-0.6
SRS	4.20	243	eP	15 01.53	-0.6
SOH	4.50	241	iP	15 05.53	-1.0
KNT	4.64	247	eP	15 07.90	-0.5
PAIG	4.85	230	iP	15 09.66	-1.8
BZS	5.55	299	ePc	15 27.50	6.2X
S.D. = 0.9		on	19 of	24 obs.	

JAN 02, 1991 01h 08m 18.23± 0.71s
39.915 N ± 7.1km 20.492 E ± 7.2km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
MD 2.9 (ATH).

IGT	0.40	198	eP	08 25.62	-0.8
KEK	0.57	250	ePb	08 30.00	0.2
KZN	1.06	68	ePb	08 37.20	-1.0
FNA	1.10	38	eP	08 37.58	-1.3
			eS	08 53.33	
OHR	1.22	11	ePn	08 42.00	1.1
EVR	1.43	134	ePn	08 48.50	4.2X
LIT	1.55	82	eP	08 45.37	-0.5
			iS	09 09.45	
AGG	1.68	121	eP	08 48.97	1.2
			eS	09 13.02	
GRG	1.79	54	iP	08 49.85	0.4
			eS	09 13.54	
SOH	2.37	67	eP	08 57.41	-0.4
			eS	09 29.54	
PAIG	2.45	89	eP	09 00.02	1.1
			eS	09 31.93	
S.D. = 1.1		on	10 of	11 obs.	

% JAN 02, 1991 01h 27m 05.34± 1.16s
4.278 N ±13.0km 76.205 W ±16.2km
DEPTH = 33.0km (normal)
COLOMBIA (103)
MD 3.1 (UVC).

HOBC	0.10	42	iPc	27 11.30	0.0
BUGC	0.39	188	iPc	27 14.19	-0.2
CLMC	0.53	222	eP	27 16.55	0.0
HOQC	0.91	208	eP	27 21.73	-0.3
			eS	27 32.70	
DIAC	0.98	180	ePc	27 23.25	0.3
			eS	27 35.40	
ANCC	1.01	221	ePc	27 23.48	0.3
S.D. = 0.3		on	6 of	6 obs.	

? JAN 02, 1991 01h 34m 00.91± 0.92s
55.863 N ±20.4km 161.367 E ±19.0km
DEPTH = 33.0km (normal)
4.5mb (4 obs.)
NEAR EAST COAST OF KAMCHATKA (218)

MAT	24.90	229	eP	39 22.00	0.1
INK	31.25	41	eP	40 19.00	-0.1
MBC	34.20	25	eP	40 46.00	1.3
	0.5s		2.00nm		4.3mb
YKA	40.65	45	eP	41 38.50	-0.4
	0.8s		1.90nm		3.9mb
SES	49.48	57	eP	42 50.00	0.4
FRB	54.67	25	eP	43 27.00	-1.2
NB2	61.08	344	P	44 13.40	0.0
	0.6s		4.40nm		4.8mb
HFS	61.54	342	eP	44 16.50	0.1
	0.6s		5.80nm		4.9mb
S.D. = 0.8		on	8 of	8 obs.	

? JAN 02, 1991 01h 42m 30.79± 7.02s
2.889 N ±17.7km 74.863 W ±56.7km
DEPTH = 33.0km (normal)
COLOMBIA (103)
MD 3.7 (UVC).

DIAC	1.39	287	iPd	42 53.63	-0.6
			eS	43 11.50	
SILC	1.49	262	eP	42 55.15	-0.7
			eS	43 14.10	
PURC	1.60	249	eP	42 57.74	0.1
			eS	43 18.70	
BUGC	1.71	306	eP	42 58.57	-0.3
SALC	1.83	273	eP	43 01.21	0.6
HOQC	1.86	288	eP	43 01.27	0.1
HOBC	1.93	319	eP	43 02.27	0.2
CLMC	1.96	300	eP	43 02.22	-0.3
ANCC	2.10	287	eP	43 05.12	0.8
S.D. = 0.6		on	9 of	9 obs.	

? JAN 02, 1991 01h 48m 59.20± 2.23s
21.765 S ±20.6km 68.912 W ±18.1km
DEPTH = 33.0km (normal)
CHILE-BOLIVIA BORDER REGION (124)

CNCB	5.01	10	P	50 15.00	0.4
CCH	5.08	31	P	50 16.00	0.6
LPB	5.26	9	P	50 18.00	0.0
ZOBO	5.52	8	P	50 21.00	-0.8
SIV	9.38	54	P	51 14.90	-0.3
YKA	91.43	341	P	02 02.90	0.1
S.D. = 0.6		on	6 of	6 obs.	

? JAN 02, 1991 02h 48m 12.97± 1.31s
52.872 N ±22.3km 161.017 E ±24.9km
DEPTH = 33.0km (normal)
4.5mb (4 obs.)
OFF EAST COAST OF KAMCHATKA (219)

```
MAT     22.86 233 eP     53 15.00    0.7
        1.0s     17.00nm          4.5mb
YKA     42.95  43 P      56 09.50   -0.3
CHG     58.41 259 eP     58 07.40   -0.2
CHTO    58.41 259 eP     58 07.10   -0.5
        1.0s      8.00nm          4.8mb
NB2     63.91 344 P      58 43.20   -1.1
        0.8s      4.40nm          4.6mb
HFS     64.33 343 eP     58 46.40   -0.6
        0.5s      2.00nm          4.5mb
HYB     71.79 275 eP     59 33.20   -0.9
KSP     72.46 337 eP     59 38.00    0.4
CLL     72.76 340 eP     59 40.00    0.7
PRU     73.66 338 ePc    59 45.20    0.6
KHC     74.69 338 eP     59 52.00    1.4
GBA     75.42 273 P      59 55.00   -0.2
      S.D. = 0.8  on  12 of  12 obs.
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   JAN  02, 1991  02h 58m 49.71± 1.38s
   38.152 N ± 5.6km   99.961 E ± 5.5km
   DEPTH =  12.8 ±  8.7 km
   5.1mb ( 23 obs.)  4.2Msz (  1 obs.)
 QINGHAI PROVINCE, CHINA          (325)

GTA      1.26 355 iPgd    59 12.80   -0.2
                  Sg      59 28.70
LZH      3.73 122 iPnc    59 50.50    2.2
      Z  10s     12.80um
                  Pg      00 00.80
                  Sn      00 36.00
                  Sg      00 51.50
CD2      7.87 155 eP      00 47.80    1.1
      E  10s      5.60um
BTO      8.16  69 eP      00 52.00    1.2
XAN      8.33 117 Pd      00 52.00   -1.1
                  S       02 33.00
HHC      9.36  70 P       01 07.60    0.2
TIY      9.87  89 Pc      01 13.20   -1.1
       0.8s    100.00nm          6.3mb X
      Z  10s      5.10um
WMO     10.86 305 P       01 26.50   -1.4
      Z  12s      2.00um
                  eS      03 33.50
LSA     11.16 224 eP      01 35.00    2.6X
BJI     12.74  76 eP      01 55.00    1.8
        1.0s     10.00nm          5.0mb
      Z  14s      1.23um
      N  11s      4.02um
GYA     12.96 152 iPc     01 54.80   -1.5
        1.6s    150.00nm          5.9mb
      Z  10s      2.20um
                  pP      01 59.00
                  PP      02 09.80
KMI     13.20 169 P       02 02.00    2.3
      Z  10s      3.40um
      E  10s      2.90um
TIA     13.82  93 eP      02 06.90   -0.7
      Z  20s      1.40um
      N  13s      3.00um
WHN     14.09 118 eP      02 12.00    0.9
      Z  14s      1.20um
                  pP      02 21.00
NJ2     16.61 106 Pc      02 45.60    1.9
      Z  13s      1.20um
                  S       05 48.00
DL2     16.97  81 P       02 52.00    3.7X
      Z  15s      1.20um
      N  10s      8.50um
      E  13s      1.20um
                  eS      05 52.00
SNY     18.45  71 Pc      03 06.20   -0.5
      Z  21s      1.70um
KSH     18.73 281 P       03 10.00   -0.2
SSE     18.81 106 Pc      03 16.00    4.9X
        6.0s    800.00nm          5.1mb X
      Z  14s      1.80um          4.6Msz
      N  12s      2.70um
      E  12s      0.50um
GZH     18.89 139 P       03 10.80   -1.3
      Z  12s      2.70um
CHG     19.29 183 ePc     03 16.00   -1.1
CHTO    19.29 183 eP      03 16.00   -1.1
        1.4s     36.06nm          4.4mb
CN2     20.02  66 eP      03 25.00    0.1
      Z  12s      2.10um          4.7MszX
                  eS      07 12.00
QZH     20.58 124 eP      03 28.40   -2.4
LOE     20.73 175 eP      03 32.00   -0.5
BDT     20.85 183 eP      03 33.60   -0.1
QIZ     20.91 153 P       03 32.90   -1.5
      N  12s      0.80um
      E  13s      2.00um
                  eS      07 20.00
NDI     21.16 250 eP      03 34.00   -2.8X
NST     22.39 180 eP      03 54.00    4.7X
MDJ     23.07  64 eP      04 01.50    5.7X
      Z  20s      0.93um          4.2Msz
                  eS      08 10.00
NNT     25.46 181 eP      04 19.80    0.8
HYB     27.90 228 eP      04 43.00    1.5
BAG     28.24 134 eP      04 46.00    1.3
POO     30.00 237 eP      04 58.00   -2.4
GBA     31.59 225 P       05 16.00    1.7
SOD     49.10 331 iP      07 40.30    2.0
NUR     50.69 322 eP      07 50.00   -0.5
        0.9s     25.30nm          5.2mb
UPP     54.26 322 iP      08 17.30    0.1
KRA     56.06 310 eP      08 31.50    1.1
HFS     56.06 323 eP      08 28.60   -1.7
        1.2s     32.70nm          5.2mb
      Z  17s      0.19um          4.3MszX
                  LR      30 39.00
NB2     56.92 324 P       08 34.00   -2.6
        1.1s     16.70nm          5.0mb
SRO     57.89 308 eP      08 46.70    3.3X
KSP     57.94 312 ePc     08 44.60    0.8
ZST     58.48 309 e(P)    08 50.00    2.4
BRG     59.29 313 iP      08 54.10    0.9
        1.0s     20.00nm          5.2mb
PRU     59.30 312 Pc      08 54.50    1.2
CLL     59.66 313 iPc     08 56.40    0.7
        1.1s     18.00nm          5.1mb
KHC     60.23 311 eP      09 01.40    1.7
GRB1    61.26 312 eP      09 08.60    1.9
        1.1s     11.00nm          4.9mb
FVI     61.82 309 P       09 10.50    0.0
IMA     61.90  26 eP      09 09.60   -1.4
        1.4s     13.70nm          4.9mb
WATA    62.22 310 iPc     09 14.20    0.8
        1.0s     20.80nm          5.3mb
SQTA    62.50 310 iPc     09 15.80    0.6
        1.0s     19.00nm          5.2mb
TTA     62.64  30 eP      09 18.70    2.8X
MBC     63.17  10 eP      09 19.00   -0.1
        1.0s      7.00nm          4.8mb
SDI     63.42 303 Pd      09 23.50    2.2
SFI     63.64 306 P       09 25.10    2.5
MDI     64.09 309 P       09 25.00   -0.5
MME     64.24 307 P       09 30.00    3.1X
VAI     64.62 309 P       09 23.00   -5.9X
BSF     64.84 312 eP      09 28.40   -2.1
        1.1s     14.65nm          5.1mb
HAU     65.01 312 eP      09 29.60   -1.9
        1.3s     18.05nm          5.1mb
LPG     66.03 310 eP      09 37.10   -1.3
        1.2s     25.30nm          5.3mb
LPL     66.03 310 eP      09 37.00   -1.4
        1.0s     22.00nm          5.3mb
BNI     66.30 309 P       09 42.00    2.0
SBF     66.44 308 eP      09 37.80   -3.0X
        1.0s     36.00nm          5.5mb
INK     66.63  19 eP      09 40.50   -1.0
MAF     68.14 312 eP      09 49.00   -2.5
        1.4s     32.65nm          5.3mb
ASPA    69.26 147 eP      09 56.90   -1.6
        1.3s      7.50nm          4.7mb
YKA     75.91  16 eP      10 36.50   -0.8
        0.9s      9.20nm          4.9mb
FRB     78.03 355 eP      10 48.00   -1.0
RMQ     78.90 137 eP      10 56.00    1.7
BCAO    80.54 268 iPd     11 03.60    0.1
        0.9s     27.00nm          5.3mb
                  i       11 06.10
FFC     85.59  13 eP      11 30.00    1.3
        0.9s     18.00nm          5.3mb
SES     87.70  19 eP      11 42.00    2.8X
LRM     91.47  22 eP      11 56.50   -0.8
8AO    143.96 300 ePKP    18 25.90   -1.2
BMA    145.68 286 ePKP    18 30.50    0.7
PPD    150.56 295 ePKP    18 43.90    6.5X
                  e       18 48.20
SIV    152.32 318 PKP     18 42.30    2 1
ZOBO   155.81 331 ePKP    18 42.00   -3.7X
      S.D. = 1.5  on  67 of  81 obs.
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*  JAN  02, 1991  03h 50m 00.35± 0.83s
   11.425 S ±13.3km  166.588 E ±12.7km
   DEPTH =  33.0km  (normal)
   5.0mb (  3 obs.)
 SANTA CRUZ ISLANDS               (184)

HNR      6.83 286 ePd     51 40.00   -0.8
                  eS      52 51.00
SVO      7.04 288 eP      51 45.00    1.2
                  eS      52 59.00
BRS     20.51 217 eP      54 33.00   -5.5X
RMQ     22.52 226 eP      55 00.00    1.3
CMS     27.68 221 eP      55 47.00   -0.5
ADE     34.51 223 iPd     56 46.50   -1.2
        0.9s     25.21nm          5.1mb
CHG     73.13 294 ePc     01 29.80   -0.2
        1.2s     18.36nm          5.0mb
CHTO    73.13 294 eP      01 29.10   -0.9
        1.2s     14.24nm          4.8mb
LZH     75.62 312 eP      01 44.50    0.2
        1.0s     30.00nm          5.2mb X
GBA     91.83 283 P       03 07.00    0.1
YKA     94.93  27 eP      03 19.80   -0.4
        0.5s      0.20nm          3.8mb X
SOB1   145.84 126 ePKP    09 39.50    1.1
BCAO   147.63 260 iPKPc   09 44.20    2.9X
        0.3s     40.00nm
                  i       09 56.10
      S.D. = 1.0  on  11 of  13 obs.
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?  JAN  02, 1991  04h 54m 41.50± 6.14s
   18.230 S ±76.5km   70.139 W ±21.5km
   DEPTH = 114.9 ± 36.6 km
 NEAR COAST OF NORTHERN CHILE     (122)

CNCB     2.50  56 iPd     55 23.90    1.7
                  i       55 54.00
LPB      2.58  49 Pd      55 22.90   -0.3
                  i       55 53.00
ZOBO     2.74  45 iPd     55 24.80   -0.7
CCH      3.90  78 P       55 43.40    2.6X
SIV      8.95  77 P       56 48.50   -1.0
NNA      8.97 313 eP      56 49.50   -0.2
        0.8s      3.73nm          4.2mb X
                  eS      58 47.50
KIC     68.96  76 P       05 37.00    0.3
YKA     87.73 341 P       07 18.20    0.1
      S.D. = 1.2  on   7 of   8 obs.
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&  JAN  02, 1991  05h 31m 43.20s
   37.475 N          118.840 W
   DEPTH =   2.0km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      <BRK>. ML 3.1 (BRK).

BONR     0.64  42 iP      31 54.40   -1.6
CMB      1.35 295 iPc     32 07.70   -1.1
                  iS      32 25.60
TNP      1.42  64 eP      32 08.50   -1.7
LLA      1.89 244 iPd     32 17.30    0.5
PRI      1.98 228 iPd     32 19.10    0.9
                  eS      32 45.90
PHAM     2.06 218 eP      32 18.50   -0.8
ARN      2.15 267 eP      32 20.60    0.0
SAO      2.20 252 iPd     32 21.70    0.4
PRS      2.33 241 eP      32 23.30    0.2
BCH      2.50 204 eP      32 25.20   -0.4
ABL      2.64 187 eP      32 28.30    0.6
       11 obs. associated
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   JAN  02, 1991  05h 37m 43.86± 1.04s
   13.814 N ± 9.7km   92.591 W ±10.0km
   DEPTH =  59.0 ±  9.6 km
   4.8mb (  6 obs.)  3.7Msz (  1 obs.)
 OFF COAST OF CHIAPAS, MEXICO     ( 68)

TPX      1.13  16 iPc     38 02.82   -0.9
                  iS      38 22.58
SCX      2.90 359 iP      38 30.15    1.5
IISM     6.90 319 (P)     39 28.09    3.5X
LVVM     6.95 328 (P)     38 55.02  -30.4X
IIT      7.54 314 iP      39 34.73    0.8
                 (S)      41 20.12
PPM      7.80 313 iP      39 38.39    0.7
                 (S)      41 30.66
III      8.02 305 (P)     39 38.50   -1.9
```

02d 05h

CLMC	18.64	120	eP	42	00.20	0.5
SALC	19.04	123	eP	42	03.70	-0.7
DIAC	19.27	121	eP	42	06.70	-0.2
SILC	19.50	123	eP	42	11.20	1.6
PURC	19.69	124	eP	42	12.00	0.2
MEO	21.57	346	iPd	42	29.30	-1.0
TUL	22.19	353	eP	42	33.80	-2.6X
	0.8s		5.60nm		4.0mb	
Z	19s		0.25um		3.7Msz	
			LR	46	36.70	
ALQ	24.48	332	eP	42	59.00	0.0
	1.2s		18.36nm		4.4mb	
GLA	27.87	317	eP	43	31.00	0.8
PLM	29.42	316	eP	43	45.00	0.7
GSC	30.55	319	eP	44	03.00	8.9X
CLC	31.38	319	eP	44	01.00	-0.3
LRM	36.05	336	eP	44	42.30	0.6
ZOBO	38.45	140	P	45	02.00	-0.5
Z	24s		0.19um		3.8MszX	
			LR	57	10.00	
LPB	38.66	140	eP	45	03.00	-1.1
Z	16s		1.01um		4.7MszX	
			eLR	59	14.00	
CNCB	38.95	141	P	45	00.00	-6.7X
SES	39.46	341	eP	45	10.00	0.0
CCH	40.53	139	P	45	18.90	-0.5
FFC	41.47	352	eP	45	25.00	-1.4
	0.5s		5.00nm		4.5mb	
PNT	41.78	333	eP	45	31.00	2.0
	1.2s		39.00nm		5.0mb	
EDM	42.63	342	eP	45	35.00	-0.9
SIV	42.99	132	P	45	38.90	-0.4
YKA	51.08	347	eP	46	41.00	-1.1
	1.0s		22.70nm		5.2mb	
FRB	52.62	13	eP	46	50.00	-3.7X
PDCR	59.10	114	eP	47	19.30	-21.6X
			e	47	42.00	
INK	60.45	344	eP	47	48.00	-1.4
FBA	63.19	337	eP	48	08.90	1.1
MBC	64.03	353	eP	48	12.00	-1.1
	1.0s		18.00nm		5.0mb	
LIC	86.18	85	P	50	22.30	1.7
CHG	145.64	340	ePKP	57	18.00	-0.1
	1.3s		24.04nm			
CHTO	145.64	340	ePKP	57	17.70	-0.3
	1.3s		20.83nm			
LOE	145.91	335	e(PKP)	57	20.00	1.5
BDT	147.09	339	ePKP	57	24.00	3.7X
NST	148.12	336	ePKP	57	30.00	8.0X
GBA	151.02	20	PKP	57	34.00	7.5X
NNT	151.06	334	ePKP	57	34.70	8.1X
S.D. = 1.1 on 32 of 43 obs.						

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* JAN 02, 1991 07h 07m 21.75± 1.14s
43.262 N ±15.9km 20.881 E ± 5.5km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.4 (TTG).

IVA	0.82	242	ePg	07	36.50	-1.2
			eSg	07	52.00	
PVY	0.94	225	ePg	07	38.00	-1.8
			eSg	07	53.50	
PLE	1.09	274	ePg	07	42.50	0.2
			eSg	08	00.70	
SKO	1.35	162	iPnd	07	46.60	0.0
			iSn	08	04.50	
			Lg	08	08.30	
TTG	1.45	236	ePg	07	47.70	-0.3
			eSg	08	08.70	
BRY	1.75	259	ePn	07	53.50	1.0
			eSg	08	20.40	
BDV	1.80	238	ePn	07	55.00	1.9
			eSg	08	22.20	
VTS	1.84	111	iPc	07	54.80	1.1
			iSg	08	18.00	
OHR	2.15	182	ePn	08	01.50	3.3X
VAY	2.31	147	iPn	08	00.40	0.0
PGB	2.52	105	ePc	08	04.80	1.4
MMB	2.69	127	iPd	08	06.60	0.7
PLD	3.05	111	ePd	08	25.00	14.2X
RZN	3.24	118	eP	08	13.80	-0.1
PVL	3.25	89	eP	08	10.80	-3.0
KDZ	3.72	114	Pd	08	31.50	11.0X
JMB	4.27	99	eP	08	41.30	13.1X
S.D. = 1.5 on 13 of 17 obs.						

? JAN 02, 1991 07h 17m 19.25± 5.35s
38.236 N ±41.8km 20.829 E ±19.5km
DEPTH = 5.0km (geophysicist)
GREECE (364)
MD 3.8 (THE).

IGT	1.35	343	eP	17	44.72	0.0
			eS	18	03.12	
AGG	1.41	56	eP	17	46.68	1.0
			eS	18	08.00	
LIT	2.27	34	eP	17	58.28	0.3
			eS	18	30.64	
FNA	2.58	9	iP	18	02.50	0.1
			eS	18	37.60	
PAIG	2.79	52	eP	18	05.25	-0.1
			eS	18	42.16	
THE	2.91	34	eP	18	07.92	0.9
			eS	18	43.96	
GRG	2.98	24	eP	18	07.40	-0.6
OUR	3.22	48	eP	18	10.72	-0.7
SOH	3.24	36	eP	18	11.28	-0.5
KNT	3.33	28	eP	18	12.96	-0.1
SRS	3.58	36	eP	18	15.92	-0.7
ALN	4.83	55	iP	18	33.69	-0.6
S.D. = 0.6 on 12 of 12 obs.						

? JAN 02, 1991 08h 30m 32.08± 2.51s
6.187 N ±22.4km 74.207 W ±49.6km
DEPTH = 10.0km (geophysicist)
NORTHERN COLOMBIA (99)

HOBC	2.65	227	iPc	31	15.10	-0.6
BUGC	3.06	222	ePc	31	21.50	0.0
CLMC	3.28	226	ePc	31	26.10	1.4
			eS	32	05.80	
DIAC	3.49	215	eP	31	28.10	0.4
HOQC	3.63	222	eP	31	29.50	-0.2
ANCC	3.75	225	eP	31	30.60	-0.7
SILC	4.07	212	eP	31	36.00	-0.2
YKA	63.49	340	P	41	04.40	0.0
S.D. = 0.8 on 8 of 8 obs.						

? JAN 02, 1991 08h 37m 10.94± 1.35s
48.339 N ±33.2km 154.724 E ±24.8km
DEPTH = 33.0km (normol)
4.4mb (2 obs.)
KURIL ISLANDS (221)

MAT	16.92	232	eP	41	06.00	-0.6
IMA	31.88	37	eP	43	34.60	-0.4
	0.6s		2.20nm		4.2mb	
FBA	34.24	40	eP	43	55.20	-0.1
MBC	42.73	21	eP	45	07.00	1.1
YKA	49.00	38	P	45	55.30	-0.5
CHG	53.55	257	eP	46	32.20	1.5
CHTO	53.55	257	iP	46	31.90	1.2
	0.7s		4.76nm		4.6mb	
GUN	55.95	275	P	46	48.70	0.1
KKN	56.43	275	P	46	51.60	-0.3
PKI	56.49	275	P	46	53.10	0.7
DMN	56.66	275	P	46	53.70	0.1
GKN	56.71	276	P	46	51.10	-2.8
S.D. = 1.2 on 12 of 12 obs.						

% JAN 02, 1991 09h 35m 48.66± 0.73s
40.255 N ± 7.8km 28.876 E ± 6.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

YLV	0.49	50	iPg	35	58.50	-0.1
			iSg	36	03.60	
DST	0.68	196	iPg	36	01.00	-1.1
			eSg	36	10.50	
BNT	0.74	278	iPg	36	03.50	0.4
			iSg	36	15.30	
EDC	0.78	277	ePg	36	04.00	0.2
HRT	0.83	47	iPn	36	04.30	-0.4
ALT	1.53	141	ePn	36	17.30	1.2
S.D. = 1.0 on 6 of 6 obs.						

& JAN 02, 1991 10h 16m 28.08s
58.690 N 136.585 W
DEPTH = 9.2km
SOUTHEASTERN ALASKA (19)
<AEIC>.

PLBC	0.78	8	eP	16	38.00	-5.3
			eS	16	45.00	
HON	1.41	304	eP	16	51.36	-2.5
			eS	17	09.18	
PNL	1.75	305	eP	16	57.02	-1.7
			eS	17	19.93	
BCPM	2.01	310	eP	17	00.92	-1.6
			eS	17	26.39	
WHC	2.19	20	eP	17	03.00	-2.1
			eS	17	28.00	
HYT	2.19	348	eP	17	02.10	-3.2
			eS	17	30.00	
YAH	3.12	305	eP	17	17.72	-0.8
DL8	3.43	92	eP	17	20.50	-2.3
			eS	18	15.40	
8 obs. associoted						

& JAN 02, 1991 12h 07m 46.92s
39.207 N 119.728 W
DEPTH = 6.6km
NEVADA (37)
<REN>. MD 3.2 (REN). ML 3.5 (BRK). Felt in the Corson City oreo.

KVN	1.28	97	eP	08	11.30	0.3
CMB	1.28	204	eP	08	10.80	-0.2
ORV	1.42	285	iP	08	13.10	-0.1
BONR	1.68	138	eP	08	17.90	0.8
MIN	1.84	309	ePc	08	20.70	1.3
LTCM	2.10	299	eP	08	25.50	2.5
TNP	2.26	119	eP	08	25.20	-0.4
ARN	2.34	218	eP	08	28.00	1.5
BKS	2.37	237	ePc	08	28.80	1.9
BRK	2.39	237	eP	08	28.80	1.6
WDC	2.56	303	eP	08	31.80	2.2
NWRM	2.58	254	eP	08	30.80	1.0
LBFM	2.70	323	eP	08	36.00	4.2
LLA	2.76	201	eP	08	34.50	2.0
SAO	2.79	210	eP	08	34.00	1.1
DUG	5.42	77	eP	09	10.60	0.2
MSU	5.94	94	eP	09	18.00	0.4
17 obs. associoted						

% JAN 02, 1991 12h 16m 16.76± 1.14s
40.985 N ±13.7km 22.362 E ± 7.1km
DEPTH = 10.0km (geophysicist)
GREECE (364)

GRG	0.04	134	ePd	16	19.34	0.4
			eS	16	21.26	
KNT	0.44	66	ePd	16	26.26	0.5
			eS	16	32.54	
THE	0.58	127	ePd	16	28.74	0.3
SOH	0.77	102	iPd	16	30.66	-1.2
FNA	0.77	255	ePd	16	31.78	-0.1
			eS	16	42.18	
S.D. = 1.0 on 5 of 5 obs.						

& JAN 02, 1991 12h 16m 48.19s
39.203 N 119.723 W
DEPTH = 2.2km
NEVADA (37)
<REN>. MD 2.3 (REN). Felt in the Corson City oreo.

KVN	1.27	96	eP	17	12.50	-0.1
CMB	1.28	204	eP	17	10.00	-2.6
BONR	1.67	138	eP	17	20.00	1.1
TNP	2.26	119	eP	17	28.70	1.4
4 obs. associated						

& JAN 02, 1991 12h 26m 37.74s
39.212 N 119.734 W
DEPTH = 7.8km
NEVADA (37)
<REN>. MD 3.0 (REN). ML 3.4 (BRK). Felt in the Corson City oreo.

CMB	1.28	204	eP	27	01.30	-0.4
KVN	1.28	97	eP	27	02.20	0.4
ORV	1.41	285	iP	27	03.90	0.1
BONR	1.68	138	eP	27	08.70	0.8
MIN	1.83	309	ePc	27	11.50	1.6
LTCM	2.10	299	eP	27	16.40	2.8
TNP	2.27	119	eP	27	16.00	-0.3

ARN	2.34	218	eP	27	18.70	1.6
BKS	2.37	237	eP	27	20.30	2.7
BRK	2.39	237	eP	27	19.90	2.1
WDC	2.55	303	eP	27	22.30	2.1
NWRM	2.58	254	eP	27	21.00	0.6
LBFM	2.70	323	eP	27	26.00	3.6
SAO	2.79	209	eP	27	25.00	1.4
DUG	5.43	77	eP	28	01.50	0.4
MSU	5.94	94	eP	28	08.60	0.2

16 obs. associated

& JAN 02, 1991 12h 46m 40.44s
39.211 N 119.738 W
DEPTH = 6.0km
NEVADA (37)
<REN>. MD 2.8 (REN). ML 3.4 (BRK). Felt in the Carson City area.

CMB	1.28	204	eP	47	04.00	-0.6
KVN	1.28	97	eP	47	05.00	0.2
ORV	1.41	285	iP	47	06.40	-0.2
BONR	1.69	138	eP	47	11.20	0.3
MIN	1.83	309	eP	47	14.70	1.9
LTCM	2.09	299	eP	47	19.00	2.5
TNP	2.27	119	eP	47	18.60	-0.7
ARN	2.33	218	eP	47	21.70	1.7
BKS	2.37	237	eP	47	22.30	1.8
			iS	47	53.30	
BRK	2.39	237	eP	47	22.40	1.7
WDC	2.55	303	eP	47	25.30	2.3
NWRM	2.57	254	eP	47	23.20	-0.1
LBFM	2.69	323	eP	47	29.00	3.7
SAO	2.79	209	eP	47	28.40	1.9
DUG	5.43	77	eP	48	04.10	0.0
MSU	5.94	94	eP	48	11.60	0.2

16 obs. associated

• JAN 02, 1991 12h 51m 30.17± 2.48s
43.310 N ±11.6km 6.307 E ±18.2km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
MD 2.8 (STR).

CALN	0.61	44	Pg	51	43.19	0.6
AURF	0.94	52	Pn	51	48.09	-0.1
			Sg	52	09.74	
TOUF	0.98	44	Pn	51	48.59	-0.3
AUTN	1.06	49	Pn	51	50.60	0.2
			Sg	52	12.68	
SAOF	1.13	53	Pn	51	50.91	-0.5
			Sg	52	14.94	
BNI	1.76	9	P	52	01.00	-0.1
			eSn	52	25.00	
PGF	2.12	110	Pn	52	06.20	0.0

S.D. = 0.4 on 7 of 7 obs.

? JAN 02, 1991 12h 59m 48.50± 4.10s
41.473 N ±29.6km 22.966 E ±10.6km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)

KNT	0.31	189	ePd	59	55.08	0.0
			eS	59	58.72	
SRS	0.59	127	ePc	00	00.36	-0.1
GRG	0.67	220	iPc	00	01.88	0.1
			eS	00	10.76	
SOH	0.71	156	iPd	00	02.88	0.3
			iS	00	11.64	
THE	0.84	180	ePc	00	04.40	-0.3
			eS	00	15.24	

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

• JAN 02, 1991 14h 02m 13.58± 1.54s
40.177 N ± 9.4km 27.912 E ±11.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.8 (ISK).

EDC	0.17	348	iPg	02	17.50	0.0
BNT	0.18	2	iPg	02	17.70	0.1
			eSg	02	20.50	
KCT	0.35	78	ePg	02	21.00	0.2
DST	0.79	136	iPg	02	29.00	0.0
			eSg	02	39.50	
YLV	1.18	70	iPn	02	35.10	-0.6
IZI	1.20	82	ePn	02	36.40	0.3
BBTK	3.74	94	iPgc	03	33.00	20.3X
			iSg	03	47.00	

S.D. = 0.4 on 6 of 7 obs.

JAN 02, 1991 14h 04m 30.13± 0.46s
41.118 N ± 4.4km 22.389 E ± 3.7km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)

GRG	0.16	177	iPc	04	33.89	0.0
			eS	04	35.72	
VAY	0.24	34	iPg	04	35.20	-0.1
			iSg	04	38.50	
KNT	0.39	83	ePc	04	38.24	0.2
			eS	04	43.84	
THE	0.65	138	iPd	04	42.60	-0.5
			eS	04	50.84	
SOH	0.79	112	ePc	04	45.28	-0.2
			eS	04	56.12	
FNA	0.84	247	ePd	04	46.68	0.3
			eS	04	58.12	
SRS	0.91	90	iPd	04	47.82	0.3
			eS	05	01.12	
LIT	1.02	176	iPd	04	49.84	0.4
			eS	05	05.00	
SKO	1.11	320	ePn	04	51.20	0.2
			eSn	05	06.10	
OHR	1.20	270	ePn	04	52.00	-0.6

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

? JAN 02, 1991 14h 38m 00.77± 4.99s
4.228 N ±26.6km 77.010 W ±36.5km
DEPTH = 33.0km (normal)
NEAR WEST COAST OF COLOMBIA (102)
MD 3.1 (UVC).

CLMC	0.56	128	iPc	38	12.90	0.4
ANCC	0.72	169	iPc	38	14.85	0.3
BUGC	0.82	114	iPc	38	16.04	0.0
HOOC	0.84	154	iPc	38	16.01	-0.5
HOBC	0.88	82	iPc	38	16.84	-0.1
			eS	38	27.50	
DIAC	1.23	139	iPc	38	21.77	-0.2
			eS	38	36.10	

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

• JAN 02, 1991 15h 16m 51.35± 1.10s
22.662 S ±11.5km 66.072 W ± 9.1km
DEPTH = 10.0km (geophysicist)
JUJUY PROVINCE, ARGENTINA (128)

ANT	4.13	255	iPc	17	55.70	-0.1
			iS	18	40.00	
CCH	5.25	359	P	19	09.60	57.5X
CNCB	6.09	343	P	18	25.00	0.8
			S	19	31.00	
LPB	6.39	342	eP	18	29.00	0.7
ZOBO	6.65	343	P	18	30.80	-1.3
			S	19	46.40	
SIV	8.14	36	P	18	52.10	-0.4
PPD	13.67	90	e(P)	20	08.00	0.2

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

? JAN 02, 1991 15h 48m 50.28± 1.46s
39.795 N ±13.5km 28.970 E ±12.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

DST	0.32	234	iPg	48	57.00	0.0
			eSg	49	01.70	
IZI	0.66	35	ePg	49	03.80	0.2
			eSg	49	11.10	
YLV	0.83	22	iPg	49	06.10	-0.3
			iSg	49	17.60	
BNT	0.98	305	ePn	49	09.00	0.1

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

& JAN 02, 1991 16h 29m 43.47s
39.207 N 119.732 W
DEPTH = 3.2km
NEVADA (37)
<REN>. MD 3.4 (REN). ML 3.8 (BRK). Felt (V) at Carson City; (IV) at Silver City and Virginia City; (III) at Zephyr Cove.

CMB	1.28	204	eP	30	07.20	-0.6
KVN	1.28	96	eP	30	07.50	-0.5
ORV	1.41	285	iP	30	09.60	-0.5
BONR	1.68	138	eP	30	14.30	0.2
MIN	1.84	309	ePc	30	16.92	0.6
LTCM	2.10	299	eP	30	22.00	2.1
TNP	2.27	119	eP	30	21.30	-1.3
ARN	2.33	218	eP	30	23.50	0.1
BKS	2.37	237	eP	30	24.70	0.8
			iS	30	56.70	
BRK	2.39	237	eP	30	24.80	0.7
			eS	30	56.20	
MHC	2.39	219	eP	30	25.30	1.0
WDC	2.56	303	eP	30	28.84	2.3
NWRM	2.58	254	eP	30	27.00	0.3
PCC	2.69	232	iPd	30	29.99	1.6
LBFM	2.70	323	eP	30	31.00	2.2
LLA	2.76	201	iPd	30	29.98	0.6
SAO	2.79	210	iPc	30	29.99	0.1
GCC	2.81	220	ePc	30	30.69	0.5
PRI	3.15	194	iPc	30	30.82	-4.2
DUG	5.43	77	eP	31	06.80	-0.6
MSU	5.94	94	eP	31	14.00	-0.7

21 obs. associated

JAN 02, 1991 16h 58m 11.81± 1.10s
19.731 S ± 8.1km 70.703 W ± 8.4km
DEPTH = 45.8 ± 9.6 km
5.0mb (5 obs.)
NEAR COAST OF NORTHERN CHILE (122)

ARE	3.34	347	iPc	59	00.80	-2.3
			iS	59	36.00	
CNCB	3.89	42	Pc	59	12.80	1.6
ANT	3.96	176	eP	59	11.50	-0.2
			iS	00	17.00	
LPB	4.03	38	Pc	59	13.10	0.0
	1.0s	1240.00nm				
ZOBO	4.23	36	iPc	59	16.80	0.8
CCH	4.92	62	P	59	26.00	0.6
			i	59	42.80	
NNA	9.70	322	eP	00	32.00	0.1
	0.7s	15.07nm			5.2mb	
			eS	02	12.00	
SIV	9.90	69	P	00	30.90	-3.6X
MDZ	13.20	173	e(P)	01	14.50	-4.5X
PPD	18.26	101	eP	02	22.40	-1.3
			e	02	29.70	
BAO	22.01	83	e(P)	03	04.00	-0.1
PURC	22.61	345	eP	03	10.84	0.4
SILC	22.96	345	eP	03	13.89	0.1
SALC	23.32	345	eP	03	17.25	0.3
DIAC	23.51	346	eP	03	20.13	1.3
HOOC	23.78	345	eP	03	21.03	-0.6
ANCC	23.88	345	ePc	03	22.77	0.5
BUGC	24.10	346	eP	03	25.37	0.8
CLMC	24.16	346	eP	03	25.08	-0.1
HOBC	24.52	347	ePc	03	27.70	-0.9
BMA	24.91	102	e(P)	03	33.00	0.8
SDV	28.44	0	eP	04	02.10	-2.6
TOV	29.35	2	eP	04	09.80	-3.0X
SOB1	30.65	74	(P)	04	24.00	-0.3
TUL	60.22	337	eP	08	14.60	-3.0X
	1.0s	21.90nm			5.2mb	
			i	08	15.80	
KIC	69.85	75	P	09	18.00	-2.3
GSC	70.05	321	eP	09	24.00	2.8X
SBB	70.24	320	eP	09	24.00	1.6
SPA	70.39	180	iPc	09	26.70	3.7X
	1.0s	12.50nm			4.8mb	
CLC	70.87	321	eP	09	28.00	1.8
LRM	75.43	331	eP	09	53.10	0.2
SES	78.36	335	ePc	10	08.70	-0.2
PNT	81.29	330	eP	10	26.00	1.5
EDM	81.46	336	iPc	10	24.20	-1.2
IFR	81.90	50	iP	10	27.00	-1.3
YKA	88.97	341	eP	11	01.10	-1.4
	0.6s	4.20nm			4.9mb	
BCAO	90.76	86	ePd	11	14.50	2.6
	0.5s	3.00nm			4.9mb	
ASPA	130.64	210	ePKP	17	19.90	-0.2
	0.8s	3.80nm				
KOD	147.89	102	ePKP	18	03.00	11.3X
GBA	148.91	96	PKP	17	56.00	3.1X
HYB	150.79	89	ePKP	18	01.70	6.0X

S.D. = 1.3 on 32 of 41 obs.

02d 16h

& JAN 02, 1991 16h 59m 13.03s
61.583 N 150.015 W
DEPTH = 40.5km
SOUTHERN ALASKA (2)
<AEIC>.

PWA	0.09	44	iP	59	19.78	0.1
			eS	59	26.18	
SUA	0.37	251	iP	59	22.07	-0.2
			eS	59	29.96	
PMS	0.40	147	iP	59	21.97	-0.6
			eS	59	29.59	
PLRM	0.42	88	iP	59	21.88	-0.9
			eS	59	30.02	
GHO	0.55	69	iP	59	23.68	-0.9
			eS	59	33.38	
KNK	0.77	102	iP	59	26.45	-1.1
			eS	59	37.93	
SKT	0.82	300	iP	59	27.45	-0.8
			eS	59	39.54	
CUT	0.83	352	iP	59	27.75	-0.6
CGLM	1.00	255	eP	59	30.17	-0.6
NCG	1.04	261	eP	59	30.88	-0.6
			eS	59	45.61	
SPU	1.06	249	iP	59	30.76	-0.9
			iS	59	45.42	
SLKM	1.08	185	eP	59	30.24	-1.8
			eS	59	44.49	
CKL	1.18	252	iP	59	32.45	-1.0
			eS	59	48.71	
BGL	1.19	255	eP	59	32.66	-0.9
			eS	59	49.59	
HUR	1.41	7	eP	59	36.15	-0.5
			eS	59	54.93	
SEW	1.51	169	eP	59	36.88	-1.1
			eS	59	55.52	
GLI	1.58	115	eP	59	36.61	-2.4
			eS	59	56.55	
KNIM	1.66	137	eP	59	36.49	-3.7
REF	1.71	231	eP	59	39.55	-1.4
RDN	1.71	232	eP	59	39.45	-1.6
			eS	00	01.04	
RSO	1.74	231	eP	59	40.11	-1.4
RS2	1.75	231	eP	59	40.34	-1.2
NCT	1.75	235	eP	59	40.37	-1.1
VZW	1.75	106	eP	59	39.46	-2.0
RED	1.78	230	eP	59	40.13	-1.8
VLZ	1.83	103	eP	59	40.20	-2.3
TOA	1.90	72	eP	59	43.05	-0.5
KLU	1.96	91	iP	59	42.37	-2.2
TZL	2.23	76	eP	59	46.95	-1.4
GLB	2.98	90	eP	59	58.27	-0.7

30 obs. associated

% JAN 02, 1991 17h 21m 07.22± 3.08s
4.233 N ±15.1km 75.808 W ±19.7km
DEPTH = 10.0km (geophysicist)
COLOMBIA (103)
MD 4.2 (UVC).

HOBC	0.35	290	iPd	21	14.24	-0.2
BUGC	0.56	233	ePc	21	19.34	0.6
			eS	21	33.80	
CLMC	0.83	245	eP	21	23.43	0.0
			eS	21	40.80	
DIAC	1.01	203	eP	21	25.37	-1.1
			eS	21	43.90	
HOOC	1.12	227	ePc	21	27.94	-0.5
			eS	21	48.40	
ANCC	1.27	236	eP	21	30.72	-0.2
			eS	21	53.30	
SALC	1.53	215	eP	21	35.77	1.0
			eS	22	02.30	
SILC	1.62	199	ePc	21	35.91	-0.4
			eS	22	01.90	
PURC	1.98	196	ePc	21	42.32	0.7
			eS	22	13.60	

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

? JAN 02, 1991 18h 30m 25.66± 0.82s
33.796 S ±12.5km 179.448 W ±26.9km
DEPTH = 33.0km (normal)
4.7mb (2 obs.) 4.3Msz (1 obs.)
SOUTH OF KERMADEC ISLANDS (179)

HBZ	4.21	205	P	31	28.90	-0.2
PUZ	4.66	203	P	31	35.90	0.4
			eS	32	33.00	
NOZ	5.22	202	eP	31	43.40	-0.1
MNG	7.92	209	eP	32	17.80	-3.6X
			eS	33	47.30	
ASPA	41.83	271	iPc	38	14.30	0.1
	0.6s		9.80nm			4.7mb
	Z 18s		0.40um			4.3Msz
SPA	56.38	180	eP	40	06.00	0.0
	1.2s		10.56nm			4.7mb
BCAO	146.33	214	ePKPd	50	03.50	-0.5
	0.6s		3.00nm			
KAF	147.28	338	iPKP	50	02.20	-1.8
	0.5s		2.90nm			
NUR	149.01	337	ePKP	50	06.00	-0.8
APO	151.86	346	ePKP	50	12.00	0.9
	0.6s		3.00nm			
NB2	151.88	349	PKP	50	13.20	2.0
	0.9s		4.00nm			
KIC	152.26	169	PKP	50	16.60	3.5X

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

JAN 02, 1991 18h 48m 51.77± 0.46s
46.069 N ± 3.6km 3.066 E ± 4.7km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.2 (LDG). MD 1.9 (STR).

PYM	0.32	187	Pg	48	57.80	-0.7
			Sg	49	01.54	
MAF	0.38	294	Pg	48	59.20	-0.4
			Sg	49	04.80	
BGF	0.51	343	Pg	49	02.00	-0.1
			Sg	49	08.60	
TCF	0.63	290	Pg	49	03.40	-1.1
			Sg	49	13.20	
AVF	0.75	15	Pg	49	06.60	0.2
			Sg	49	16.00	
SMF	0.79	43	Pg	49	06.00	-1.1
			Sg	49	16.40	
LBL	0.85	171	Pg	49	07.93	-0.1
			Sg	49	19.14	
SSF	1.04	17	Pg	49	12.00	0.6
			Sg	49	25.00	
LSF	1.08	280	Pg	49	12.70	0.6
			Sg	49	27.60	
LBF	1.11	34	Pg	49	13.20	0.6
			Sg	49	28.00	
LOR	1.32	24	Pg	49	16.40	0.3
			Sg	49	33.20	
RJF	1.33	235	Pg	49	17.00	0.7
			Sg	49	34.00	
CAF	1.34	212	eP	49	17.20	0.7
			Sg	49	34.20	

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

? JAN 02, 1991 19h 49m 13.19± 1.56s
4.039 N ±18.5km 76.336 W ±22.4km
DEPTH = 110.0km (geophysicist)
COLOMBIA (103)
MD 2.8 (UVC).

BUGC	0.16	152	eP	49	30.12	0.0
HOOC	0.64	208	eP	49	31.57	-0.1
ANCC	0.74	226	eP	49	32.33	0.1
DIAC	0.76	169	eP	49	32.53	0.0
SALC	1.12	199	eP	49	35.97	-0.1
			eS	49	54.90	
SILC	1.34	180	eP	49	38.76	-0.2
			eS	49	59.70	
PURC	1.71	181	eP	49	43.66	0.2

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

% JAN 02, 1991 20h 29m 01.54± 2.55s
45.404 N ± 9.3km 1.139 W ±24.0km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 3.0 (LDG).

MFF	1.38	30	Pg	29	27.60	0.7
			Sg	29	46.00	
LFF	1.41	109	Pg	29	32.00	4.8X
			Sg	29	52.40	
LPO	1.80	113	Pn	29	34.40	1.6
			Pg	29	38.00	
			Sg	30	04.00	
RJF	1.87	92	Pg	29	39.00	5.1X
			Sg	30	05.30	
LSF	2.05	65	Pg	29	41.80	5.3X
			Sg	30	09.00	
CAF	2.32	101	Pn	29	40.00	-0.4
			Sg	30	20.10	
TCF	2.50	68	Pn	29	42.20	-0.8
			Pg	29	50.80	
			Sg	30	24.00	
EPF	2.60	155	Pn	29	43.80	-0.6
			Pg	29	52.00	
			Sg	30	28.00	
LPF	2.63	1	Pg	29	49.20	4.5X
			Sg	30	19.90	
MAF	2.72	71	Pn	29	46.40	0.4
			Sg	30	31.20	
BGF	3.01	66	Pn	29	50.00	-0.1
			Pg	29	59.40	
			Sg	30	40.00	
SSF	3.62	61	Pn	29	58.00	-0.9
LOR	3.93	60	Pn	30	01.00	-2.3X
			Pg	30	16.00	

S.D. = 1.0 on 8 of 13 obs.

? JAN 02, 1991 21h 02m 44.45± 8.85s
2.634 N ±19.6km 79.581 W ±75.5km
DEPTH = 33.0km (normal)
SOUTH OF PANAMA (83)
MD 2.1 (UVC).

CUMC	2.38	134	eP	03	22.40	-0.1
ANCC	2.85	72	iPc	03	28.00	-0.6
			eS	04	01.80	
SALC	2.90	83	eP	03	29.50	0.0
HOOC	3.06	74	ePc	03	31.00	-0.9
PURC	3.23	95	eP	03	35.20	0.7
DIAC	3.44	79	eP	03	37.40	0.1
			eS	04	18.20	
HOBC	3.84	63	eP	03	43.70	0.9

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

? JAN 02, 1991 21h 17m 39.03± 6.29s
3.840 N ±19.4km 75.951 W ±48.7km
DEPTH = 10.0km (geophysicist)
COLOMBIA (103)
MD 2.7 (UVC).

HOBC	0.54	340	iPc	17	50.08	0.0
			eS	17	58.10	
CLMC	0.61	274	eP	17	51.39	-0.1
			eS	18	00.40	
HOOC	0.77	242	eP	17	54.14	-0.2
			eS	18	05.00	
ANCC	0.97	251	eP	17	57.77	0.3

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

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* JAN 02, 1991 22h 19m 23.39± 1.11s
62.269 N ±14.9km 26.553 W ±15.6km
DEPTH = 10.0km (geophysicist)
4.9mb (7 obs.) 4.1Msz (1 obs.)
ICELAND REGION (637)

REY	2.82	46	eP	20	08.70	-0.6
AKU	5.06	44	eP	20	44.90	3.9X
	1.6s		573.33nm			5.9mb X
LOR	22.79	117	eP	24	26.20	-0.7
	Z 20s		0.73um			4.1Msz
SSF	22.81	118	eP	24	25.90	-1.1
	0.6s		7.65nm			4.4mb
AVF	22.96	119	eP	24	27.50	-1.0
	2.2s		153.75nm			5.1mb
HAU	23.27	113	eP	24	32.00	0.4
	2.2s		246.05nm			5.4mb X
SMF	23.28	118	eP	24	30.50	-1.2
	1.6s		65.30nm			4.9mb
CDF	23.36	111	eP	24	35.00	2.4
	1.8s		86.30nm			5.0mb
BSF	23.60	112	eP	24	35.50	0.7
	2.2s		246.05nm			5.4mb X
MOX	23.69	102	eP	24	47.00	11.4X
	1.6s		37.00nm			
CLL	23.88	99	eP	24	39.00	1.6
BRG	24.61	99	eP	24	44.80	0.3
	1.4s		19.00nm			4.6mb
KHC	25.66	102	P	24	55.00	0.4
KRA	27.96	94	eP	25	13.60	-1.9
YKA	37.80	311	P	26	40.70	-0.2
LZH	74.17	40	eP	31	02.80	0.3
	1.5s		23.00nm			5.0mb

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GKN     74.73   59 P      31 00.00   -5.1X
CHTO    88.51   50 eP     32 17.70    0.5
         1.8s     14.96nm          5.0mb
      S.D. = 1.2  on  15 of  18 obs.
-------------------------------------------
&  JAN  02, 1991  23h 16m 35.55s
   39.212 N          119.733 W
   DEPTH =   5.8km
   4.4mb (  4 obs.)
 NEVADA                              ( 37)
      <REN>. MD 4.6 (REN). ML 4.7
      (BRK). Slight damage (V) at
      Corson City. Felt (V) at Dayton
      and Virginia City; (IV) at
      Genoa, Reno and Silver City;
      (III) at Crystal Bay, Incline
      Village, Verdi and Yerington.
      Also felt (IV) at Georgetown,
      Homewood, Kings Beach, Tahoe
      Valley and Tahoma, California;
      (III) at Arnold, Avery,
      Carnelian Bay, Glencoe and
      Pinecrest, California.

KVN     1.28   97 eP     16 59.90    0.1
CMB     1.28  204 iPc    16 59.70    0.0
ORV     1.41  285 iPc    17 01.60   -0.2
BONR    1.68  138 eP     17 06.50    0.5
MIN     1.83  309 ePc    17 08.28    0.3
LTCM    2.10  299 eP     17 13.00    1.3
FRI     2.22  179 iPd    17 14.70    1.3
TNP     2.27  119 iPd    17 14.00   -0.4
ARN     2.34  218 eP     17 16.20    1.0
ZSP     2.35  238 iPc    17 16.30    1.0
BKS     2.37  237 iPc    17 16.40    0.7
                  iS     17 46.35
BRK     2.39  237 iPc    17 16.90    1.0
MHC     2.40  219 iPd    17 17.50    1.4
WDC     2.56  303 iPc    17 18.00   -0.2
NWRM    2.58  254 eP     17 18.50    0.0
PCC     2.69  231 iPc    17 20.80    0.6
LBFM    2.70  323 eP     17 20.70    0.2
LLA     2.76  201 iPd    17 21.70    0.5
SAO     2.79  210 iPc    17 22.60    1.0
GCC     2.82  220 eP     17 22.50    0.5
PRI     3.15  194 iPd    17 27.76    1.0
PRS     3.15  205 eP     17 27.30    0.6
                  eS     18 05.23
FHC     3.63  297 eP     17 34.00    0.4
BCH     4.03  184 eP     17 39.00   -0.3
DUG     5.43   77 eP     17 59.00   -0.2
PEC     5.70  158 eP     18 03.50    0.6
MSU     5.94   94 iP     18 06.50    0.1
PLM     6.29  157 eP     18 11.50    0.2
DAU     6.64   77 eP     18 16.90    0.5
BW06    8.48   62 eP     18 42.50    0.4
LRM     8.51   37 eP     18 44.20    1.7
ALQ    11.43  108 eP     19 25.00    2.4
SES    12.76   26 eP     19 32.00   -8.3
FVM    22.90   84 eP     21 41.40    0.3
YKA    23.52    6 P      21 46.40   -0.5
FBA    30.47  337 eP     22 53.80    2.8
         1.2s     6.82nm          4.4mb
IMA    33.09  335 eP     23 14.50    0.4
         1.0s     4.38nm          4.3mb
MBC    37.13    0 eP     23 49.00    0.8
         1.5s    16.00nm          4.6mb
ZOBO   73.26  128 P      28 09.00   -1.3
HFS    73.87   22 eP     28 10.90   -1.7
         0.6s     2.70nm          4.5mb
SIV    77.51  123 P      2B 34.20    0.3
ZST    84.91   27 eP     29 12.40    0.0
                  e      39 21.10
       42 obs. associated
-------------------------------------------
?  JAN  02, 1991  23h 16m 40.16± 1.20s
   39.239 N ± 8.1km   23.591 E ±12.9km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                          (365)
      ML 2.8 (ATH).

NEO     0.29  283 iPbd   16 46.30    0.0
                  eSb    16 50.70
PLG     1.14  354 iPnc   17 01.50    0.0
                  eSn    17 17.00
ATH     1.27  176 ePb    17 03.70    0.0
                  eSn    17 19.00
KZN     1.76  308 ePn    17 11.00    0.0
      S.D. = 0.0  on   4 of   4 obs.
-------------------------------------------
   JAN  02, 1991  23h 19m 00.03± 0.90s
   23.700 N ± 7.3km  121.355 E ± 9.3km
   DEPTH =  10.0km  (geophysicist)
   3.6mb (  2 obs.)
 TAIWAN                              (244)

TWF1    0.35  189 iPc    19 06.30   -1.0
                  eS     19 11.20
TWD     0.44   30 iPc    19 09.50    0.6
                  eS     19 17.20
TWQ     0.74  320 ePc    19 14.60    0.0
TWK     0.91  242 iPc    19 16.40   -1.0
TWC     1.01   26 ePc    19 20.10    1.0
                  eS     19 36.10
QZH     2.81  297 ePn    19 44.70   -1.1
                  Sn     20 17.00
SSE     7.37  359 ePn    20 48.00   -2.2
GZH     7.38  267 ePn    20 50.40   -0.1
NJ2     8.61  346 Pd     21 08.00    0.5
                  S      22 40.00
WHN     9.24  319 P      21 15.50   -0.7
GYA    13.59  285 eP     22 15.60    0.1
CHG    21.44  261 eP     23 53.00    2.4
CHTO   21.44  261 eP     23 53.00    2.4
         1.2s     3.13nm          3.6mb
YKA    83.35   23 eP     31 27.50   -0.8
         0.9s     0.40nm          3.6mb
      S.D. = 1.4  on  14 of  14 obs.
-------------------------------------------
   JAN  02, 1991  23h 23m 55.19± 0.75s
   37.003 N ± 9.5km    4.037 W ± 6.7km
   DEPTH =  10.0km  (geophysicist)
 SPAIN                               (377)
      mbLg 2.4 (MDD).

MAL     0.41  228 iP     24 02.00   -1.5
                  eS     24 07.70
ECOG    0.47   54 ePg    24 03.80   -0.9
                  eSg    24 10.20
AFC     0.47   57 ePg    24 04.00   -0.7
                  eSg    24 11.00
LIJA    1.11  265 iP     24 17.00    1.0
EBAN    1.18   10 ePg    24 17.50    0.3
                  eSg    24 34.60
EHOR    1.26  311 ePn    24 19.10    0.5
                  eSn    24 37.00
ENIJ    1.46   91 ePn    24 23.00    1.4
                  eSn    24 43.00
OJEN    1.51  234 iP     24 24.00    1.7
GIBL    1.55  264 iP     24 21.00   -1.8
EVIA    2.03   36 ePn    24 30.00    0.0
      S.D. = 1.4  on  10 of  10 obs.
-------------------------------------------
&  JAN  02, 1991  23h 44m 34.34s
   39.216 N          119.724 W
   DEPTH =  10.0km
 NEVADA                              ( 37)
      <REN>. MD 3.1 (REN). ML 3.5
      (BRK). Felt in the Corson City
      area.

KVN     1.27   97 eP     44 58.50    0.4
CMB     1.29  204 eP     44 58.50    0.2
ORV     1.42  284 iPc    45 00.60    0.4
BONR    1.68  138 eP     45 05.00    0.8
MIN     1.84  308 iPd    45 08.50    2.2
LTCM    2.10  299 eP     45 13.00    3.0
FRI     2.22  180 iPd    45 13.60    1.9
                  iS     45 44.00
TNP     2.27  119 eP     45 14.80    2.2
ARN     2.34  218 eP     45 14.70    1.1
BKS     2.38  237 eP     45 17.80    3.8
BRK     2.40  237 e(P)   45 18.00    3.8
WDC     2.56  303 eP     45 20.00    3.5
NWRM    2.58  254 eP     45 17.90    1.0
LBFM    2.70  323 eP     45 20.60    1.8
LLA     2.77  201 eP     45 22.00    2.4
DUG     5.42   77 eP     45 57.80    0.5
MSU     5.93   94 eP     46 05.00    0.4
       17 obs. associated
-------------------------------------------
   JAN  03, 1991  00h 03m 51.95± 0.88s
    7.194 S ± 3.8km  148.618 E ± 4.1km
   DEPTH =  38.3 ±  8.1 km
    5.4mb ( 24 obs.)  4.5Msz (  1 obs.)
 EAST PAPUA NEW GUINEA REGION        (207)
      ML 5.3 (PMG).

PMG     2.64  213 iPc    04 34.00    1.0
YYYY    2.80  290 eP     04 37.00    1.5
RAB     4.62   50 iPc    05 00.00   -1.3
                  iS     05 33.00
MNDI    5.03  282 eP     05 17.00    9.7X
JAY     9.15  300 ePd    06 27.00   22.4X
SVO    11.25  101 eP     06 33.00   -0.4
HNR    11.43  102 eP     06 35.00   -0.8
CTA    13.02  190 iP     06 59.00    1.9
         1.4s   153.49nm          5.8mb
                  iS     10 00.00
QIS    15.90  212 iPc    07 36.40    1.7
MTN    18.11  251 eP     08 03.00    0.6
RMQ    19.19  180 iPc    08 16.20    0.7
QLP    19.73  192 iPc    08 21.00   -0.5
BRS    20.47  169 iPc    08 29.50    0.3
AAI    20.62  279 eP     08 31.10    0.3
KNA    21.21  245 eP     08 35.00   -1.8
ASPA   21.63  219 iPd    08 40.50   -0.5
         0.6s   107.50nm          5.4mb
       Z  19s     1.90um          4.5Msz
                  iS     12 35.90
DZM    22.68  133 iPc    08 50.70   -0.8
COO    23.46  173 eP     08 58.00   -1.0
CMS    24.31  186 eP     09 07.00   -0.2
MNI    25.23  289 ePc    09 18.00    1.9
ADE    29.11  197 eP     09 50.00   -1.4
         1.3s    96.15nm          5.3mb
BFO    30.35  190 eP     10 04.00    1.6
TOO    30.37  185 eP     10 02.60    0.0
FORR   30.38  217 eP     10 01.40   -1.3
         0.4s    48.00nm          5.6mb
PPR    34.21  299 iPd    10 31.70   -4.7X
MEKA   34.51  232 iPc    10 38.90    0.1
COOL   34.88  224 eP     10 41.30   -0.7
KLB    37.65  226 eP     11 04.70   -0.6
         0.5s    46.00nm          5.6mb
MRWA   37.73  230 eP     11 06.00    0.0
NWAO   38.77  224 iPc    11 14.40   -0.3
MUN    38.97  226 eP     11 16.40    0.0
TCW    40.85  150 P      11 30.80   -0.9
KIW    40.91  149 eP     11 30.80   -1.4
MRW    41.08  150 eP     11 32.10   -1.5
MTW    41.43  149 P      11 34.90   -1.6
MOW    41.49  149 P      11 35.30   -1.7
BLW    41.57  149 P      11 36.10   -1.5
QZH    43.31  319 eP     11 51.40   -0.6
CHJJ   43.95  349 P      11 56.10   -1.0
TSRJ   44.14  345 P      11 58.20   -0.4
MAT    44.59  348 iPc    12 01.00   -1.3
         1.5s   111.11nm          5.5mb
                  eS     19 02.00
MTMJ   44.71  348 P      12 02.60   -0.8
NIIJ   45.11  349 P      12 05.80   -0.6
YAMJ   45.84  351 P      12 11.70   -0.4
SSE    46.25  327 Pd     12 14.00   -1.5
         0.7s    30.00nm          5.3mb
QIZ    46.25  305 eP     12 14.40   -1.3
OFUJ   46.49  353 P      12 16.60   -0.6
NJ2    48.26  326 Pd     12 31.10   -0.2
         0.8s    40.00nm          5.5mb
IPM    48.91  282 ePc    12 39.00    2.3
WHN    49.87  321 Pc     12 45.00    1.3
LOE    52.38  298 eP     13 04.40    1.4
GYA    52.67  311 iPc    13 05.20    0.0
NST    53.12  296 eP     13 12.50    4.0X
SNY    53.90  337 iPc    13 12.40   -1.3
MDJ    54.35  343 eP     13 16.00   -1.1
CN2    54.92  340 P      13 23.00    1.7
       Z  15s     0.90um          5.0MszX
                  pP     13 34.00   37kmX
                  eS     21 01.00
KMI    54.99  307 Pc     13 24.00    1.6
CHG    55.36  299 ePc    13 26.10    1.2
         1.1s    19.62nm          5.1mb
XAN    55.62  320 iPc    13 26.50   -0.1
BJI    55.73  330 eP     13 25.50   -1.6
         1.6s    18.00nm          4.9mb
TIY    55.99  326 eP     13 27.40   -1.8
       Z  28s     0.60um          4.5MszX
                  PcP    14 28.60
CD2    57.25  314 iPd    13 37.30   -1.0
         1.0s    50.00nm          5.5mb
```

03d 00h

HHC	58.69	328	P	13	48.40	0.1	CAR	144.74	82	iPKP	23	26.40	-1.2				i	44	39.60	18kmX
BTO	59.35	326	eP	13	51.60	-1.2	LLAV	144.86	82	iPKP	23	25.80	-1.9	BRS	20.45	169	iPc	44	47.00	-0.7
LZH	60.16	319	eP	13	58.00	-0.5	PPD	145.00	147	ePKP	23	26.60	-1.1				eS	47	42.00	
	1.5s	99.00nm			5.7mb					e	23	33.10					iS	51	34.50	
		pP		14	03.50	18kmX				e	23	42.10		AAI	20.60	279	eP	44	51.40	2.1
PAE	61.02	106	eP	14	05.00	0.5				e	23	52.00					eS	44	56.30	
	1.2s	55.00nm			5.6mb		AVE	145.83	323	iPKPc	23	30.80	2.0	GUA	20.95	350	eP	44	51.70	-1.1
PMO	62.61	103	eP	14	16.00	0.8				i	23	42.80		PJG	21.00	350	eP	44	52.20	-1.2
	1.2s	35.00nm			5.4mb		TIO	147.34	319	iPKP	23	34.50	3.0X	KNA	21.17	245	eP	44	53.70	-1.4
VAH	62.86	103	eP	14	17.00	0.2				i	23	48.50			0.5s	122.00nm			5.5mb	
	1.2s	35.00nm			5.4mb		BMA	147.77	157	ePKP	23	35.40	3.1X	ASPA	21.59	219	eP	44	54.90	-4.4X
GTA	64.68	320	eP	14	29.10	0.5	LEGH	148.96	269	ePKP	23	40.00	5.7X		0.5s	84.80nm			5.4mb	
	1.0s	30.00nm			5.3mb		KOGH	149.05	270	ePKP	23	40.00	5.5X	Z	18s	15.78um			5.5Msz	
		pP		14	34.50	17kmX	WEGH	149.10	269	ePKP	23	40.00	5.4X				i	44	59.50	17kmX
LSA	66.24	307	Pc	14	41.20	2.0	KUK	149.18	270	ePKP	23	40.00	5.3X				iS	48	54.00	
GUN	69.86	303	P	15	00.80	-0.9	BAO	151.98	144	ePKPd	23	46.50	7.6X	PVC	21.89	120	iPc	45	01.00	-1.3
PKI	70.14	303	P	15	01.90	-1.5	KIC	153.53	270	PKP	23	49.32	8.3X	DZM	22.68	132	iPc	45	09.60	-0.7
KKN	70.32	303	P	15	03.28	-1.1		1.1s	17.50nm					COO	23.44	173	iPc	45	17.60	0.1
DMN	70.40	303	P	15	03.76	-1.2	LIC	153.81	269	PKP	23	49.82	8.4X				i	45	34.80	76kmX
GKN	70.93	303	P	15	06.12	-1.9		1.1s	18.50nm					CMS	24.27	186	iPd	45	25.80	0.3
KOD	72.93	283	eP	15	15.00	-5.2X	TIC	153.83	270	PKP	23	49.96	8.5X				i	52	11.70	
HYB	73.38	291	eP	15	22.50	0.0		S.D. = 1.2		on 122 of 143 obs.				MNI	25.21	289	ePd	45	36.80	2.2
GBA	73.61	286	P	15	24.10	0.3	----------							DAV	27.00	301	eP	45	56.00	4.8X
WMO	74.74	319	P	15	30.00	0.0		JAN 03, 1991		00h 04m 38.86± 0.71s				CNB	27.97	179	eP	46	00.00	0.2
POO	77.99	291	eP	15	48.50	-0.1		41.056 N ± 6.6km			22.438 E ± 5.7km			ADE	29.07	197	iPd	46	09.20	-0.5
ANM	79.32	18	e(P)	15	53.70	-1.2		DEPTH = 10.0km		(geophysicist)					1.4s	213.95nm			5.6mb	
SVW	80.65	24	eP	16	02.50	0.3		YUGOSLAVIA					(383)	BFD	30.32	190	iPc	46	23.90	3.1X
		i		16	04.90			ML 1.3 (SKO)						FORR	30.34	217	eP	46	16.20	-4.8X
SPA	82.85	180	iPd	16	15.70	1.9									0.4s	70.00nm			5.8mb	
	1.1s	48.21nm			5.5mb		GRG	0.10	196	iPc	04	42.10	0.4				e	46	20.00	13kmX
PMR	83.59	25	eP	16	16.20	-1.1				iS	04	44.78		TOO	30.34	185	iPc	46	21.00	0.0
	1.1s	40.30nm			5.4mb		VAY	0.28	21	iPg	04	45.00	0.2		0.7s	37.00nm			5.3mb	
IMA	84.11	20	eP	16	20.00	-0.1				iSg	04	47.70		TSM	32.51	290	ePd	46	43.70	3.5X
	1.2s	23.30nm			5.2mb		KNT	0.36	73	iPc	04	46.06	-0.3	PPR	34.20	299	ePd	46	54.50	-0.4
KLU	84.92	26	P	16	24.80	0.7				eS	04	51.02		COOL	34.83	224	eP	47	00.00	-0.3
TOA	85.07	25	P	16	25.00	0.1	THE	0.58	136	ePd	04	50.26	-0.4	KKM	34.88	291	ePd	47	01.30	0.4
FBA	85.66	23	eP	16	26.20	-1.5				eS	04	58.02		TRT	35.64	267	iPc	47	07.50	0.2
8RW	86.13	15	eP	16	30.00	0.1	SOH	0.73	108	ePd	04	53.90	0.6	KLB	37.61	226	iPc	47	37.00	13.4X
YKU	87.02	29	e(P)	16	30.50	-3.9X	FNA	0.85	252	ePd	04	54.94	-0.3	MRWA	37.68	230	eP	47	24.80	0.5
INK	92.17	21	eP	16	57.50	-0.9				eS	05	06.46			0.5s	17.00nm			5.2mb	
MAIO	93.50	306	iPd	17	05.40	0.0	SRS	0.87	86	ePc	04	55.34	-0.3	NWAO	38.72	224	iPc	47	33.20	0.2
WDC	93.75	50	ePc	17	07.70	1.4				eS	05	07.18		Z	20s	6.80um			5.5Msz	
MHC	94.10	53	eP	17	09.80	1.6		S.D. = 0.5		on 7 of 7 obs.				N	20s	6.50um				
PRS	94.22	54	eP	17	10.40	1.8	----------							E	20s	4.90um				
ORV	94.43	51	eP	17	09.60	0.1		JAN 03, 1991		00h 40m 10.83± 0.14s				MUN	38.93	226	iPc	47	35.10	0.4
LLA	94.59	54	eP	17	12.00	1.7		7.225 S ± 3.2km			148.585 E ± 3.4km			RKG	39.53	223	eP	47	42.20	2.5
PRI	94.77	54	eP	17	12.90	1.7		DEPTH = 40.2km		(6 depth phases)				THZ	40.60	152	P	47	47.50	-0.9
BCH	95.15	55	P	17	14.80	1.8		5.7mb (40 obs.)		5.2Msz (14 obs.)				PUZ	40.79	143	eP	47	48.70	-1.3
CMB	95.16	52	ePc	17	14.20	1.3		EAST PAPUA NEW GUINEA REGION					(207)	TCW	40.84	150	eP	47	49.80	-0.5
SYP	95.18	56	eP	17	15.00	1.8		CENTROID, MOMENT TENSOR					(HRV)	MNG	41.01	148	eP	47	50.60	-1.2
FRI	95.61	54	eP	17	16.00	1.1		Data Used: GDSN						MRW	41.07	150	P	47	51.10	-1.1
PNT	96.55	41	eP	17	19.00	0.0		L.P.B.: 10S, 21C						LTZ	41.11	153	Pc	47	51.90	-0.7
	0.9s	16.00nm			5.5mb			Centroid Location:						SNZO	41.13	150	P	47	50.70	-1.9
MWC	96.74	56	eP	17	22.00	1.6		Origin Time		00:40:13.9 1.4				CAW	41.16	149	Pc	47	51.90	-1.1
SBB	96.96	56	eP	17	23.00	0.8		Lat 7.46S 0.10		Lon 148.88E 0.08				WDW	41.24	149	eP	47	52.30	-1.3
CLC	97.22	55	eP	17	23.00	0.7		Dep 15.0 FIX		Half-duration 2.1				KHZ	41.40	152	eP	47	53.50	-1.4
RVR	97.29	57	eP	17	24.00	1.4		Moment Tensor;		Scale 10**17 Nm					0.6s	65.00nm			5.5mb	
MBC	97.42	14	eP	17	23.00	0.7		Mrr=-1.66	0.09	Mtt= 1.86	0.11			MTW	41.42	149	eP	47	53.90	-1.2
PEC	97.46	57	P	17	24.60	1.2		Mff=-0.20	0.12	Mrt= 1.18	0.49			PGZ	41.43	148	eP	47	53.50	-1.6
TNP	97.66	53	P	17	25.00	0.5		Mrf= 0.54	0.37	Mtf= 0.63	0.09				0.7s	95.00nm			5.6mb	
	1.2s	9.27nm			5.2mb			Principal Axes:						MOW	41.48	149	Pc	47	54.30	-1.3
PLM	97.67	57	eP	17	26.00	1.4		T Val=	2.44	Plg=17	Azm=343			BLW	41.56	149	P	47	55.00	-1.2
GSC	97.84	55	eP	17	27.00	1.8		N	-0.36	6	251			KAGJ	41.78	337	P	47	58.60	0.4
NEW	98.15	42	P	17	26.10	-0.1		P	-2.08	72	144			KUMJ	43.01	338	P	48	07.20	-1.0
	0.8s	15.42nm			5.6mb			Best Double Couple:Mo=2.3*10**17						WKYJ	43.02	344	eP	48	07.30	-1.0
YKA	99.47	28	eP	17	31.20	-0.6		NP1:Strike= 82		Dip=28	Slip= -78			TKSJ	43.24	342	eP	48	04.90	-5.1X
	1.0s	1.90nm			4.6mb			NP2:	248	63	-96			OZH	43.31	319	eP	48	09.50	-1.2
SES	102.10	40	ePdiff	17	45.00	1.0								Z	20s	1.90um			5.0Msz	
BW06	103.53	48	Pdiff	17	49.90	-0.9	PMG	2.59	213	iPc	40	50.00	-1.3	N	15s	1.20um				
	0.9s	3.25nm			5.1mb		YYYY	2.78	290	eP	41	45.00	51.0X				sP	48	20.80	
APO	116.94	337	ePKP	22	32.80	-1.2	RAB	4.67	50	iPc+	41	14.50	-6.3X	IIDJ	43.65	347	eP	48	12.70	-0.7
	0.9s	13.80nm					MNDI	5.01	282	eP	41	27.00	1.3	CHJJ	43.98	349	P	48	13.60	-2.4
ZST	122.17	324	e(PKP)	22	44.30	0.0	JAY	9.14	300	ePd	42	29.00	5.7X	TSRJ	44.16	345	eP	48	16.70	-0.8
BRG	122.56	328	i(PKP)	22	44.60	-0.4	SVO	11.28	101	eP	42	52.00	-0.6	SHNJ	44.33	339	eP	48	17.40	-1.5
KHC	123.71	326	ePKP	22	47.90	0.5				eS	45	08.00		YONJ	44.53	342	eP	48	15.30	-5.2X
ARV	127.00	320	PKP	22	56.00	2.1X	HNR	11.45	102	eP	42	53.00	-1.9	MAT	44.61	348	eP	48	15.00	-6.1X
VAI	128.24	325	PKP	22	57.00	0.9				eS	45	04.00			1.2s	25.00nm			4.9mb	
BCAO	130.28	270	iPKPd	23	02.50	1.5	CTA	12.99	190	iPd	43	17.10	1.7				eS	54	53.00	
	1.0s	15.00nm						1.8s	343.18nm			6.1mb		MTMJ	44.74	348	P	48	16.70	-5.6X
		i		25	27.40					iS	45	45.00		NIIJ	45.13	349	eP	48	19.50	-5.8X
		i		26	31.00		OIS	15.85	212	eP	43	52.00	-0.9	GZH	45.77	312	eP	48	30.00	-0.5
ZOBO	136.81	123	ePKP	23	07.00	-7.0X				i	43	55.10		N	10s	0.50um				
CCH	137.86	126	ePKP	23	15.00	-0.6				e	50	40.00		E	10s	0.50um				
SDV	141.11	85	ePKP	23	17.00	-4.4X	MTN	18.07	251	eP	44	21.00	0.4				S	55	12.00	
TOV	141.94	83	ePKP	23	15.80	-6.9X	RMO	19.16	180	iPc	44	34.90	1.0	QIZ	46.24	305	eP	48	34.80	0.5
SIV	142.65	128	PKP	23	19.50	-4.4X				e	51	22.00		N	18s	1.40um				
IFR	144.27	321	iPKP	23	25.00	-1.4	OLP	19.69	192	e(P)	44	35.00	-4.8X	E	19s	2.10um				

SSE		46.26	327	P	48	32.50	-1.7			1.2s	90.00nm		5.8mb		TNP	97.70	53	P	53	44.00	0.7
		1.2s	85.00nm				5.6mb		PPN	61.18	106	iP	50	24.70	0.5		1.1s	12.01nm			5.3mb
	Z	20s	3.20um				5.3Msz			1.2s	70.00nm		5.7mb		PLM	97.72	57	eP	53	44.00	0.6
	N	14s	1.10um						TVO	61.36	106	iP	50	26.10	0.6	BAR	97.84	58	eP	53	45.00	1.2
	E	14s	1.10um							1.2s	115.00nm		5.9mb		GSC	97.88	55	eP	53	45.00	1.0
			pP	48	44.00	41km			TBI	61.45	113	eP	50	21.00	-5.0X	NEW	98.20	42	P	53	44.30	-0.8
NJ2		48.27	326	Pd	48	49.50	-0.5			1.2s	135.00nm		6.0mb			1.2s	37.88nm				5.8mb	
		0.9s	100.00nm				5.8mb		PMO	62.63	103	iP	50	34.80	0.8	YKA	99.51	28	eP	53	51.10	0.4
	Z	20s	1.50um				5.0Msz			1.2s	80.00nm		5.7mb			1.5s	4.70nm				4.8mb	
	N	17s	1.50um						VAH	62.89	103	iP	50	36.40	0.7	LRM	101.39	45	ePdiff	53	59.50	-0.3
	E	15s	1.30um							1.2s	55.00nm		5.6mb		SES	102.14	40	ePdiff	54	03.00	0.2
			pP	49	01.00	41km			TPT	62.90	103	iP	50	36.50	0.7	BW06	103.57	48	Pdiff	54	08.60	-1.0
			S	55	48.00					1.2s	90.00nm		5.8mb			0.9s	8.47nm				5.5mb	
IPM		48.89	282	ePd	48	58.90	3.7X		RUV	63.13	103	iP	50	37.90	0.6	TAB	104.06	307	ePdiff	54	11.00	-0.8
WHN		49.87	321	Pd	49	03.00	0.6			1.2s	50.00nm		5.5mb		ALQ	106.36	56	ePKP	58	34.00	0.4
		1.6s	100.00nm				5.6mb		GTA	64.68	320	iPd	50	46.50	-0.8		Z 20s	0.53um			5.1Msz	
	Z	16s	1.00um				4.9MszX			4.0s	590.00nm		6.0mb X		ANMO	106.36	56	PKP	58	45.70	12.1X
	N	19s	3.60um							Z 18s	1.50um		5.2Msz		APO	116.96	337	ePKP	58	51.70	-1.0
			pP	49	14.50	41km				E 16s	1.60um					0.6s	2.90nm				
			PcP	50	24.50						PcP	51	20.80		FVM	118.70	51	PKP	58	55.80	-0.9
SNG		49.94	286	eP	49	00.00	-3.1X				eS	59	26.00		KRA	119.66	325	ePKP	58	57.10	-1.0
			e	56	14.00						ScS	00	38.80		SRO	121.64	323	ePKP	59	02.80	0.9
GYA		52.67	311	iPc	49	23.40	-0.4				eSS	03	42.00		SKO	122.01	315	iPKP	59	02.20	-0.7
		2.0s	300.00nm				5.9mb		LSA	66.23	307	Pc	50	55.60	-2.2	ZST	122.18	324	ePKP	59	02.60	-0.4
	Z	20s	0.90um				4.8Msz					S	59	45.00					e	00	39.20	
	N	18s	1.00um						GUN	69.85	303	P	51	16.22	-4.1X				e	16	52.90	
	E	18s	1.80um						PKI	70.13	303	P	51	17.04	-4.9X	BRG	122.57	328	iPKP	59	04.00	0.4
			S	56	50.00				KKN	70.31	303	P	51	18.72	-4.2X		1.6s	62.00nm				
NST		53.10	296	eP	49	13.20	-13.8X		DMN	70.39	303	P	51	19.52	-4.0X				i	01	25.20	
SNY		53.91	337	Pc	49	29.00	-3.5X		GKN	70.92	303	P	51	22.34	-4.2X	PRU	122.73	327	ePKP	59	04.00	0.1
	Z	16s	3.60um				5.5MszX		KOD	72.90	283	eP	51	39.80	1.1				e	59	11.90	
	N	16s	2.00um						HYB	73.36	291	ePd	51	40.50	-0.5	CLL	122.82	328	iPKPd	59	03.60	-0.5
	E	15s	1.70um							1.0s	45.00nm		5.4mb			1.5s	20.00nm				
			S	56	56.00				GBA	73.59	286	P	51	43.00	0.7	KHC	123.72	326	PKP	59	06.50	0.5
MDJ		54.37	343	Pd	49	35.50	-0.4		GBA	73.59	286	Pc	51	38.80	-3.5X				e	59	17.40	
		1.7s	100.00nm				5.6mb			1.2s	28.40nm		5.1mb		MOX	123.92	328	ePKP	59	07.00	0.7
	Z	38s	4.20um				5.2MszX		WMQ	74.74	319	iPd	51	48.60	0.0	VBY	124.58	322	ePKP	59	08.00	0.3
CN2		54.94	340	Pc	49	43.40	3.3X			Z 20s	1.10um		5.2Msz		GRB1	124.62	327	ePKP	59	08.00	0.3
	Z	16s	5.60um				5.7MszX				pP	51	56.40	25kmX		1.3s	22.00nm				
	N	16s	2.00um								sP	52	02.80			Z 21s	0.70um				5.3Msz
	E	16s	1.00um								S	01	22.00		LJU	124.76	322	ePKP	59	09.00	0.9
			ePP	49	48.00						SKS	01	49.00		CEY	124.98	322	ePKP	59	08.50	0.0
			eS	57	22.00				NDI	77.36	301	iPd	52	03.50	-0.1	VOY	125.15	323	ePKP	59	08.50	-0.4
KMI		54.99	307	Pd	49	42.00	1.0			1.4s	209.30nm		6.0mb		FVI	125.52	324	PKP	59	11.00	1.5
		1.5s	170.00nm				5.9mb		POD	77.97	291	iPc	52	07.50	0.3	SOTA	126.09	325	iPKPc	59	09.40	-1.4
	Z	25s	2.00um				5.1MszX		SVW	80.70	24	eP	52	20.40	-0.7		1.8s	47.40nm				
CHG		55.35	299	iPd	49	43.60	0.1		TTA	81.57	22	eP	52	24.00	-1.7				i	59	25.60	
		1.1s	3.16nm				4.3mb X		MAW	81.73	203	eP	52	27.20	0.9				i	59	50.00	
CHTO		55.35	299	eP	49	43.00	-0.5		SPA	82.82	180	iPd	52	32.90	0.6	CTI	126.48	324	PKP	59	13.00	1.4
		1.0s	28.50nm				5.3mb			0.9s	65.91nm		5.7mb		BLA	126.50	49	PKP	59	09.00	-2.8X
XAN		55.62	320	iPc	49	40.60	-4.7X				i	59	19.80		ARV	127.01	320	PKP	59	14.50	2.0
	N	11s	0.50um						PMR	83.63	25	eP	52	34.70	-1.5	RSNY	127.24	38	PKP	59	06.00	-6.9X
BJI		55.74	330	eP	49	44.00	-1.8			1.7s	140.00nm		5.8mb		SDI	127.30	318	PKP	59	14.00	0.8
		6.0s	500.00nm				5.7mb X		IMA	84.15	20	eP	52	38.20	-0.7	SAL	127.38	324	PKP	59	20.00	6.9X
	Z	20s	2.10um				5.2Msz			1.3s	46.40nm		5.4mb		SFI	127.48	321	PKP	59	15.00	1.7
			PcP	50	45.00				KLU	84.96	26	P	52	43.20	0.2	CDF	127.53	328	ePKP	59	10.40	-3.1X
TIY		56.00	326	eP	49	46.90	-1.0		TOA	85.11	25	eP	52	44.30	0.6		1.2s	14.90nm				
	Z	20s	2.50um				5.3Msz		FBA	85.70	23	eP	52	44.50	-2.0	CRE	127.56	321	PKP	59	14.00	0.3
	N	20s	3.20um							1.2s	909.09nm		6.9mb X		BSF	128.14	328	ePKP	59	11.20	-3.5X
	E	19s	2.00um						BRW	86.17	15	eP	52	48.10	-0.6		1.5s	78.35nm				
			S	57	35.50				INK	92.21	21	eP	53	14.00	-3.3X	VAI	128.24	325	PKP	59	16.00	1.3
CD2		57.25	314	eP	49	55.30	-1.7			1.3s	55.00nm		5.8mb		HAU	128.27	328	ePKP	59	11.30	-3.5X
		1.1s	100.00nm				5.8mb		MAIO	93.49	306	iPd	53	24.00	0.0		1.4s	34.85nm				
	Z	20s	3.70um				5.5Msz		BRK	93.72	52	eP	53	26.00	1.2	LPL	129.60	326	ePKP	59	18.80	1.1
	E	15s	1.70um						BKS	93.74	52	ePd	53	25.70	0.8		1.2s	11.90nm				
			epP	50	08.00	45km				1.4s	108.00nm		6.1mb		BNI	129.91	325	PKP	59	21.00	2.8X
			PcP	50	46.00						eLR	24	29.20		SSF	130.34	329	ePKP	59	15.80	-2.9X
			eS	57	46.70				WDC	93.79	50	ePd	53	26.00	0.9		2.0s	93.30nm				
HHC		58.70	328	P	50	06.00	-1.0		GCC	93.83	53	eP	53	26.90	1.5	NNA	130.96	113	ePKP	59	21.50	0.6
	Z	22s	3.50um				5.4Msz		MHC	94.15	53	eP	53	28.50	1.5		1.2s	15.63nm				
	E	15s	1.90um						PRS	94.26	54	eP	53	29.20	1.8	TCF	131.52	329	ePKP	59	19.00	-2.0
			pP	50	17.50	40km			MIN	94.48	50	eP	53	29.30	0.8		2.0s	110.80nm				
BTO		59.35	327	eP	50	09.50	-2.0		ORV	94.48	51	eP	53	29.50	1.2	CNCB	136.67	124	PKP	59	20.00	-12.3X
	N	19s	2.20um						LLA	94.63	54	eP	53	30.80	1.7	LPB	136.71	123	PKP	59	32.00	-0.2
	E	19s	1.90um						PRI	94.81	54	eP	53	31.60	1.5	ZOBO	136.82	123	PKP	59	20.00	-12.6X
			eS	58	14.00				BCH	95.19	55	P	53	33.00	1.1		1.1s	18.85nm				
LZH		60.16	319	iPd	50	16.50	-0.7		CMB	95.21	52	ePd	53	32.00	0.2				i	59	33.00	
		8.0s	600.00nm				5.8mb X		SYP	95.22	56	eP	53	34.00	2.0	CCH	137.86	126	ePKP	59	20.00	-14.3X
			pP	50	27.00	35km			FRI	95.65	54	eP	53	34.50	0.7	SDV	141.15	85	ePKP	59	33.80	-6.3X
			PcP	50	57.00				PNT	96.59	41	eP	53	38.00	0.2	TOV	141.97	83	ePKP	59	35.40	-6.1X
			PP	52	32.00				PAS	96.68	56	eP	53	40.00	1.5	SIV	142.66	128	PKP	59	38.30	-4.2X
			eS	58	29.00				MWC	96.78	56	eP	53	40.00	0.8	PORP	144.06	69	PKP	59	40.00	-4.8X
AFR		60.85	106	iP	50	22.50	0.5		SBB	97.01	56	eP	53	41.00	1.0	IFR	144.27	321	i(PKP)	59	44.00	-1.0
		1.2s	90.00nm				5.8mb		CLC	97.27	55	eP	53	42.00	0.8	SJG	144.49	69	ePKP	59	43.00	-2.6X
PAE		61.04	106	iP	50	23.60	0.3		RVR	97.33	57	eP	53	43.00	1.6	OLLA	144.91	83	iPKP	59	45.70	-0.8
		1.2s	70.00nm				5.7mb		MBC	97.46	14	eP	53	41.00	-0.2	PPD	144.99	147	ePKP	59	41.40	-4.9X
PPT		61.04	106	iP	50	23.90	0.6		PEC	97.50	57	P	53	43.20	0.9				e	59	45.20	

03d 00h

			e	59	50.10	
			e	00	00.40	
AVE	145.83	323	ePKP	59	45.00	-2.4X
			i	59	49.00	
TIO	147.34	319	iPKP	59	51.00	0.9
			i	00	07.00	
BMA	147.76	158	ePKP	59	53.20	2.3X
			e	59	54.40	
TEGH	148.75	269	ePKP	59	58.00	5.4X
SHGH	148.81	270	ePKP	59	57.50	4.8X
LEGH	148.93	269	ePKP	59	58.50	5.6X
KOGH	149.02	270	ePKP	59	58.00	4.9X
WEGH	149.07	269	ePKP	59	58.00	4.9X
PAG	149.13	71	ePKP	59	57.00	3.8X
KUK	149.15	270	ePKP	59	54.50	1.2
DEG	149.64	70	ePKP	59	59.00	5.1X
TRN	150.19	81	ePKP	00	00.00	5.3X
BAO	151.97	144	e(PKP)	59	59.00	1.4
KIC	153.50	270	PKP	00	00.02	0.4
LIC	153.78	269	PKP	00	00.48	0.5
TIC	153.79	270	PKP	00	00.54	0.5
SOB1	161.14	150	ePKP	00	12.30	3.4X
			e	00	55.00	

S.D. = 1.1 on 164 of 222 obs.

& JAN 03, 1991 00h 41m 00.17s
60.012 N 149.361 W
DEPTH = 11.5km
KENAI PENINSULA, ALASKA (14)
<AEIC>.

SEW	0.10	334	iP	41	03.17	0.1
			eS	41	05.29	
SLKM	0.66	320	iP	41	12.79	-0.4
			eS	41	22.02	
LTI	0.76	87	eP	41	13.34	-1.5
			eS	41	27.37	
BRLK	0.81	253	eP	41	14.71	-1.0
MTU	0.86	91	eP	41	16.25	-0.3
KNIM	0.88	67	eP	41	15.64	-1.3
			eS	41	26.90	
NNL	0.97	273	eP	41	18.52	0.0
CNPM	1.07	244	eP	41	18.82	-1.3
			eS	41	33.07	
NKA	1.19	309	eP	41	23.16	1.0
HOM	1.21	254	eP	41	21.51	-1.0
			eS	41	36.78	
PMS	1.24	356	eP	41	22.25	-0.9
XLV	1.32	246	eP	41	21.23	-3.2
GLI	1.42	51	eP	41	24.62	-1.2
			eS	41	41.51	
KNK	1.47	17	eP	41	25.43	-1.2
			eS	41	43.67	
PLRM	1.59	4	eP	41	26.80	-1.4
SUA	1.61	336	eP	41	28.73	0.1
RDT	1.62	292	eP	41	28.07	-0.6
			eS	41	49.01	
MID	1.64	110	eP	41	26.74	-2.2
PWA	1.66	351	eP	41	29.45	0.2
REF	1.73	287	eP	41	27.31	-3.2
			eS	41	52.70	
VZW	1.74	52	eP	41	27.91	-2.6
RED	1.75	285	eP	41	28.42	-2.2
RSO	1.75	286	eP	41	28.95	-1.8
RS2	1.75	286	eP	41	28.56	-2.2
RDN	1.77	288	eP	41	29.21	-1.7
SPU	1.77	313	eP	41	29.22	-1.7
GHO	1.78	7	eP	41	32.06	1.0
CGLM	1.84	316	eP	41	30.96	-1.0
INE	1.86	273	eP	41	30.55	-1.7
NCT	1.86	289	eP	41	30.68	-1.6
CRP	1.87	314	eP	41	31.93	-0.5
VLZ	1.87	52	eP	41	30.11	-2.1
CKL	1.89	310	eP	41	32.56	-0.1
			eS	41	54.89	
BGL	1.95	311	eP	41	33.02	-0.5
NCG	1.96	317	eP	41	34.03	0.3
SKT	2.24	333	eP	41	36.09	-1.6
KLU	2.25	47	eP	41	35.96	-1.9
CUT	2.44	350	eP	41	39.05	-1.4
PDB	2.45	267	eP	41	37.60	-2.9
TOA	2.61	35	eP	41	40.44	-2.5
TZL	2.80	42	eP	41	42.60	-3.0
GLB	3.08	60	eP	41	47.66	-1.9
SDG	3.13	35	eP	41	49.50	-0.7
TGL	3.33	74	eP	41	48.57	-4.6
RND	3.42	4	eP	41	49.04	-5.4
PAX	3.51	30	eP	41	52.00	-3.7
BALM	3.62	70	eP	41	53.04	-4.3

47 obs. associated

JAN 03, 1991 00h 46m 57.69± 1.12s
7.184 S ± 7.3km 148.659 E ± 8.4km
DEPTH = 53.5 ± 12.4 km
5.3mb (8 obs.)
EAST PAPUA NEW GUINEA REGION (207)

PMG	2.67	214	iPc	47	40.00	0.9
YYYY	2.83	289	eP	48	42.00	60.4X
RAB	4.59	50	iPc	48	05.30	-0.9
	0.6s		853.33nm			
SVO	11.21	101	P	49	39.00	1.0
QLP	19.75	192	iPc	51	25.30	-0.7
AAI	20.66	279	eP	51	40.00	4.4X
KNA	21.26	245	eP	51	40.70	-0.9
ASPA	21.66	219	iPd	51	45.10	-0.6
	0.5s		80.90nm		5.4mb	
			iS	55	40.30	
FORR	30.41	217	eP	53	06.00	-1.2
	0.4s		43.00nm		5.5mb	
MEKA	34.54	232	iPc	53	44.00	0.7
MRWA	37.76	230	eP	54	10.00	-0.5
MAT	44.59	348	eP	55	05.00	-1.4
	1.1s		36.71nm		5.1mb	
			eS	01	24.00	
IPM	48.95	282	ePc	55	42.20	1.2
PSI	50.59	279	eP	55	53.00	-0.6
NST	53.15	296	eP	56	17.00	4.2X
KMI	55.02	307	Pc	56	28.00	1.3
			pP	56	36.50	28kmX
CHTO	55.40	299	eP	56	29.20	0.0
	0.9s		10.23nm		4.9mb	
			pP	56	47.70	72kmX
			PcP	57	29.90	
TIY	56.00	326	eP	56	33.00	-0.3
CD2	57.28	314	eP	56	41.20	-1.3
	1.0s		30.00nm		5.3mb	
LZH	60.18	319	iPc	57	02.50	-0.2
	1.5s		71.00nm		5.6mb	
	Z 16s		1.21um		5.1MszX	
			pP	57	13.00	35kmX
			PcP	57	47.50	
GTA	64.70	320	iPd	57	32.00	-0.7
	3.5s		330.00nm		5.8mb X	
			sP	57	43.40	
LSA	66.26	307	iP	57	45.60	2.3
GUN	69.89	303	P	58	05.92	0.1
	0.4s		34.00nm		5.6mb	
PKI	70.17	303	P	58	07.18	-0.4
KKN	70.35	303	P	58	08.22	-0.3
DMN	70.43	303	P	58	09.46	0.4
GKN	70.96	303	P	58	11.88	-0.2
KOD	72.97	283	eP	58	24.00	-0.4
HYB	73.42	290	eP	58	27.00	0.4
GBA	73.65	286	Pc	58	28.80	0.9
	0.7s		4.40nm		4.5mb	
WMQ	74.76	319	P	58	34.20	0.2
	Z 12s		1.00um		5.3MszX	
			pP	58	38.20	13kmX
			sP	58	45.00	
SVW	80.63	24	e(P)	58	59.70	-6.3X
INK	92.15	21	eP	00	03.00	0.8
MAIO	93.53	306	eP	00	10.00	0.6
PPD	144.98	146	ePKP	06	31.30	-0.2
AVE	145.84	323	iPKP	06	36.00	3.4X
			i	06	47.50	
TIO	147.35	319	iPKP	06	39.00	3.7X
			i	06	52.50	
BMA	147.76	157	ePKP	06	40.00	4.0X
KUK	149.23	270	ePKP	06	44.70	6.2X
BAO	151.96	144	ePKPc	06	51.50	8.8X
KIC	153.57	270	PKP	06	53.80	8.9X
LIC	153.85	269	PKP	06	54.30	9.0X
TIC	153.87	270	PKP	06	54.20	8.9X

S.D. = 0.9 on 31 of 43 obs.

& JAN 03, 1991 00h 58m 02.63s
64.446 N 153.357 W
DEPTH = 24.3km
CENTRAL ALASKA (1)
<AEIC>. ML 3.5 (PMR)

IMA	1.64	355	eP	58	30.10	-0.2
TRF	1.68	125	eP	58	30.83	-0.2
			eS	58	52.05	
BWN	1.72	97	eP	58	30.57	-0.8
			eS	58	52.92	
NEA	1.86	84	eP	58	33.58	0.2
			eS	58	56.84	
TTA	1.93	219	eP	58	36.10	1.6
MCK	2.07	108	eP	58	36.61	0.1
			eS	59	02.96	
HUR	2.22	130	eP	58	37.97	-0.6
RND	2.25	116	eP	58	38.18	-0.9
			eS	59	06.02	
MDM	2.26	75	eP	58	36.65	-2.6
			eS	59	06.38	
CCB	2.41	83	eP	58	41.69	0.5
FBA	2.44	77	eP	58	39.60	-2.0
			id	58	46.50	
			iS	59	17.10	
CUT	2.48	144	eP	58	42.07	-0.1
SKT	2.61	161	eP	58	43.56	-0.6
HDA	2.78	88	eP	58	46.15	-0.4
NCG	3.10	169	eP	58	48.30	-3.0
CGLM	3.21	168	eP	58	51.55	-1.2
PWA	3.22	149	eP	58	51.78	-1.0
SUA	3.22	157	eP	58	52.04	-0.9
BGL	3.23	172	eP	58	49.81	-3.2
CKL	3.30	171	eP	58	52.88	-1.1
GHO	3.36	141	eP	58	53.87	-0.9
PLRM	3.45	144	eP	58	53.82	-2.2
PMR	3.45	144	eP	58	55.50	-0.5
PMS	3.65	150	eP	58	58.60	-0.4
KNK	3.78	141	eP	58	55.66	-5.1
TOA	4.01	123	eP	59	04.90	0.9

26 obs. associated

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* JAN 03, 1991 01h 11m 57.94± 0.89s
27.510 S ± 6.4km 71.159 W ±15.0km
DEPTH = 33.0km (normal)
4.7mb (2 obs.)
NEAR COAST OF NORTHERN CHILE (122)

ANT	3.85	10	iP	12	57.00	0.7
			iS	14	07.50	
RTLL	4.47	149	ePd	13	03.10	-2.1
			eS	14	00.80	
ZON	4.57	152	e(P)	13	08.10	1.5
CYA	4.83	102	e(P)	13	12.00	1.7
RTCV	4.90	153	e(P)	13	09.30	-1.9
IHA	5.51	184	eP	13	21.00	1.2
			e(S)	14	27.50	
PEL	5.63	176	eP	13	18.50	-3.1X
			i	14	16.50	
ARE	11.00	358	eP	14	36.00	-0.4
CNCB	11.05	16	P	14	32.00	-5.3X
LPB	11.29	15	eP	14	35.00	-5.4X
ZOBO	11.53	15	P	14	44.00	0.1
SIV	14.79	41	P	15	24.90	-1.7
			i	15	35.90	
BMA	24.90	85	e(P)	17	20.00	0.6
TUL	67.22	338	eP	22	51.00	-0.1
	0.8s		5.30nm		4.7mb	
LIC	72.07	73	P	23	21.40	0.2
TIC	72.30	72	P	23	22.60	0.0
KIC	72.39	73	Pc	23	23.24	0.2
	0.7s		7.00nm		4.8mb	
YKA	96.17	341	P	25	38.20	15.0X
GBA	147.62	109	PKPd	31	40.80	2.4X
	0.9s		7.70nm			
HYB	150.33	103	ePKP	31	47.50	4.9X

S.D. = 1.3 on 14 of 20 obs.

JAN 03, 1991 01h 41m 25.78± 0.33s
29.562 S ± 7.8km 111.805 W ± 4.9km
DEPTH = 10.0km (geophysicist)
5.4mb (22 obs.) 5.8Msz (13 obs.)
EASTER ISLAND REGION (685)
Ms 6.2 (BRK). Mo=2.0*10**18 Nm (PPT).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 18S, 47C
Centroid Location:
Origin Time 01:41:33.9 0.2
Lat 29.91S 0.03 Lon 112.03W 0.02
Dep 15.0 FIX Half-durotion 3.3
Moment Tensor; Scale 10**17 Nm
Mrr=-0.40 0.12 Mtt=-7.23 0.12
Mff= 7.63 0.13 Mrt= 2.06 0.47

Mrr= 0.46 0.44 Mtf=-0.03 0.15
Principal Axes:
T Val= 7.66 Plg= 3 Azm=270
N 0.15 74 12
P -7.80 16 179
Best Double Couple:Mo=7.7*10**17
NP1:Strike=316 Dip=77 Slip=-171
NP2: 224 82 -13

RKT 21.71 282 iP 46 17.70 -1.3
1.2s 170.00nm 5.3mb
RUV 35.71 286 iP 48 27.10 0.5
1.2s 45.00nm 5.2mb
VAH 35.90 285 iP 48 28.60 0.5
1.2s 75.00nm 5.4mb
TPT 36.01 286 iP 48 29.50 0.4
1.2s 95.00nm 5.5mb
PMO 36.23 286 iP 48 31.40 0.4
1.2s 85.00nm 5.5mb
PPN 36.36 281 eP 48 33.00 1.0
1.2s 40.00nm 5.1mb
PPT 36.46 281 eP 48 34.00 1.1
1.2s 80.00nm 5.4mb
AFR 36.65 280 eP 48 35.00 0.5
1.2s 70.00nm 5.3mb
MDZ 36.70 106 e(P) 48 36.10 1.2
PT10 36.72 69 e(P) 48 38.00 2.8X
NNA 36.88 69 eP 48 36.50 0.0
1.3s 46.15nm 5.1mb
Z 20s 4.79um 5.3Msz
ANT 37.31 91 e(P) 48 36.00 -4.0X
ARE 39.13 80 eP 48 56.00 0.3
CYA 40.05 100 e(P) 49 01.00 -2.0
LPB 42.02 82 P 49 20.00 0.4
S 55 50.00
LR 00 24.00
ZOBO 42.11 82 P 49 21.60 1.0
1.5s 102.15nm 5.3mb
Z 20s 6.57um 5.5Msz
S 55 48.00
LR 00 00.00
CCH 43.35 84 P 49 31.00 0.6
PSO 44.94 53 eP 49 47.50 4.2X
SIV 48.34 85 P 50 09.90 0.2
PPD 54.46 97 eP 50 55.00 -0.9
SDV 55.06 53 eP 51 01.20 0.7
TOV 56.28 52 eP 51 08.00 -1.1
BAO 59.87 92 eP 51 26.10 -8.4X
BMA 60.38 101 e(P) 51 44.00 6.3X
BAR 62.07 355 eP 51 49.00 0.1
GLA 62.34 357 eP 51 51.00 0.3
PLM 62.76 355 eP 51 53.00 -0.6
RVR 63.43 355 eP 52 03.00 5.2X
MWC 63.72 354 eP 52 01.00 1.1
SBB 64.16 354 eP 52 00.00 -2.7
ALQ 64.36 5 eP 52 03.00 -1.1
2.0s 58.82nm 5.4mb
Z 18s 5.58um 5.8Msz
ANMO 64.36 5 P 52 05.00 0.9
1.3s 72.12nm 5.7mb
Z 20s 5.32um 5.7Msz
GSC 64.69 355 eP 52 06.00 -0.1
MEO 65.20 12 e(P) 52 11.00 1.6
CLC 65.26 355 eP 52 09.00 -0.8
PRI 65.88 352 eP 52 14.50 0.7
PRS 66.16 352 eP 52 16.00 0.5
SAO 66.59 352 eP 52 24.30 6.1X
FRI 66.62 353 eP 52 18.20 -0.1
TUL 66.84 14 eP 52 18.80 -1.1
MHC 67.19 352 eP 52 22.50 0.3
BONR 67.44 354 P 52 24.70 0.7
TNP 67.48 355 P 52 24.20 0.1
1.2s 27.55nm 5.3mb
OLY 67.49 18 P 52 23.60 -0.4
CMB 67.72 353 eP 52 25.70 0.3
MSU 67.72 360 P 52 25.10 -0.5
BKS 67.79 351 eP 52 26.80 1.0
1.3s 55.00nm 5.6mb
Z 20s 13.00um 6.2Msz
N 20s 11.00um
E 20s 4.10um
eS 01 42.00
eLQ 10 40.00
eLR 13 29.20
GOL 69.17 5 P 52 33.90 -0.7
1.1s 12.82nm 5.0mb
Z 18s 6.93um 5.9Msz

RSCP 69.36 23 P 52 34.80 -0.9
1.8s 133.93nm 5.8mb
DAU 69.62 0 P 52 37.50 0.1
ELC 69.78 19 P 52 38.00 -0.1
LHS 70.10 27 P 52 40.40 0.3
FVM 70.11 18 P 52 39.20 -0.9
WDC 70.49 351 eP 52 41.20 -1.2
LBFM 71.17 352 P 52 46.80 0.1
BW06 72.01 2 P 52 50.00 -1.8
1.2s 27.40nm 5.2mb
DZM 72.58 254 iPc 53 03.50 8.0X
LRM 75.03 360 eP 53 09.70 0.4
NEW 77.61 356 P 53 24.20 0.7
1.0s 31.25nm 5.4mb
PNT 78.83 355 eP 53 31.00 0.8
SES 79.60 0 eP 53 35.00 0.6
RSNY 81.22 26 P 53 44.20 1.1
1.2s 38.87nm 5.3mb
Z 20s 0.56um 4.9Msz
EDM 82.44 359 iPc 53 49.30 0.1
FFC 84.37 6 ePc 53 59.00 0.0
1.3s 49.00nm 5.6mb
ADE 87.63 231 e(P) 54 14.00 -1.8
YKA 91.76 359 eP 54 33.10 -1.1
1.0s 4.00nm 4.7mb
TOA 95.45 345 eP 54 47.60 -3.7X
PMR 95.72 343 e(P) 54 52.90 0.4
1.7s ********nm 8.5mb X
Z 18s 2.67um 5.8Msz
FBA 98.24 345 eP 55 04.20 0.4
1.3s 14.15nm 5.5mb
INK 98.90 352 eP 55 12.00 5.4X
SMY 104.15 323 Pdiff 55 40.00 9.4X
Z 20s 2.00um 5.6Msz
MBC 105.66 358 ePKP 00 01.00 11.2X
1.5s 10.00nm
BCAO 126.87 108 ePKPd 00 33.10 0.9
1.0s 15.00nm
i 00 54.10
MDJ 129.90 305 ePKP 00 35.50 -1.5
SQTA 133.06 51 iPKPc 00 43.40 0.3
1.5s 17.50nm
e 01 07.00
i 01 15.40
i 01 37.00
TIY 142.56 294 ePKP 00 58.00 -2.9X
Z 25s 2.10um 5.8MszX
E 20s 1.90um
HHC 143.16 300 ePKP 00 59.20 -2.7X
Z 20s 2.20um 5.9Msz
MLR 143.37 52 ePKPd 01 03.00 0.9
e 12 18.50
VRI 143.83 52 ePKP 01 08.50 5.8X
BTO 144.35 299 PKP 01 02.00 -1.9
XAN 145.26 288 PKPc 01 04.20 -1.4
GYA 146.00 274 iPKPc 01 07.00 -0.1
KHL 146.94 64 iPKP 01 10.80 2.5X
ELL 147.32 67 ePKP 01 11.00 2.0
NST 147.56 252 ePKP 01 16.00 6.3X
KMI 149.07 270 PKPd 01 16.50 4.3X
Z 25s 2.00um 5.8MszX
BBTK 149.29 61 ePKP 01 16.00 4.0X
CD2 149.32 282 ePKP 01 16.50 4.3X
Z 23s 3.90um 6.1MszX
E 20s 2.65um
LZH 149.46 292 PKP 01 17.00 4.6X
Z 22s 3.00um 6.0Msz
e 01 27.00
CHG 150.07 256 iPKPc 01 17.60 4.0X
1.1s 34.49nm
CHTO 150.07 256 ePKP 01 16.10 2.5X
1.3s 40.85nm
RMN 150.98 80 ePKP 01 15.50 0.7
ADI 151.68 74 ePKP 01 26.00 10.3X
DSI 151.73 78 ePKP 01 22.50 6.8X
GTA 152.27 299 ePKP 01 22.80 6.3X
6.0s 430.00nm
Z 22s 2.50um 6.0Msz
E 22s 3.00um
WMQ 158.93 318 ePKP 01 24.60 -0.3
Z 20s 1.80um 5.9Msz
PP 05 47.60
MAIO 170.07 45 ePKP 01 35.00 0.2
S.D. = 0.9 on 71 of 97 obs.

? JAN 03, 1991 01h 52m 47.18± 1.67s
28.734 S ±31.2km 111.041 W ±20.2km
DEPTH = 10.0km (geophysicist)
4.9mb (7 obs.)
EASTER ISLAND REGION (685)

ARE 38.33 80 eP 00 14.00 3.6X
LPB 41.24 82 P 00 33.00 -1.7
ZOBO 41.33 82 P 00 37.00 1.4
1.2s 30.41nm 4.9mb
CCH 42.60 85 P 00 46.00 0.3
SIV 47.61 86 P 01 26.00 0.5
SDV 54.03 52 eP 02 15.00 0.7
TOV 55.25 52 eP 02 21.70 -1.4
BAR 61.31 355 eP 03 10.00 4.9X
PLM 61.99 354 P 03 07.80 -2.2
SBB 63.40 354 eP 03 20.00 0.9
ALQ 63.48 4 eP 03 20.00 0.2
1.3s 8.65nm 4.8mb
ANMO 63.48 4 P 03 20.50 0.7
GSC 63.92 355 eP 03 23.00 0.4
CLC 64.50 354 eP 03 29.00 2.7
TNP 66.72 355 P 03 40.60 -0.1
0.8s 4.85nm 4.7mb
GOL 68.29 5 P 03 50.00 -0.6
0.8s 4.61nm 4.7mb
DAU 68.79 360 P 03 53.40 -0.4
FVM 69.12 17 P 03 55.70 0.2
0.8s 17.42nm 5.3mb
WDC 69.78 351 eP 03 59.50 0.0
BW06 71.17 1 P 04 07.00 -1.1
1.3s 12.02nm 4.9mb
LRM 74.21 359 eP 04 32.10 6.1X
NEW 76.84 356 P 04 40.10 -0.6
1.0s 19.00nm 5.1mb
SES 78.78 360 ePd 04 52.30 1.0
EDM 81.63 359 eP 05 05.50 -0.9
BTO 144.51 301 PKP 12 18.20 -7.4X
GYA 146.60 275 iPKPd 12 23.00 -6.5X
LOE 147.91 257 ePKP 12 25.00 -6.7X
LZH 149.77 293 ePKP 12 30.00 -4.3X
CD2 149.80 283 ePKP 12 27.00 -7.4X
CHG 150.91 257 ePKP 12 33.50 -2.8X
CHTO 150.91 257 ePKP 12 33.00 -3.3X
1.2s 23.26nm
GTA 152.43 301 ePKP 12 38.00 -0.1
S.D. = 1.2 on 22 of 32 obs.

& JAN 03, 1991 02h 08m 51.92s
39.222 N 119.741 W
DEPTH = 7.1km
NEVADA (37)
<REN>. MD 4.0 (REN). ML 4.0 (BRK). Felt in the Carson City area. Also felt in Alpine County, California.

CMB 1.29 203 eP 09 16.00 -0.1
KVN 1.29 97 eP 09 16.40 0.2
ORV 1.40 284 eP 09 18.00 0.1
BONR 1.69 138 iP 09 23.20 0.9
MIN 1.82 309 iPc 09 25.40 1.3
LTCM 2.09 299 eP 09 29.70 2.0
FRI 2.23 179 iPd 09 31.10 1.3
iS 10 01.58
TNP 2.28 119 iPd 09 30.50 -0.3
ARN 2.34 218 eP 09 32.40 0.9
BKS 2.37 236 ePd 09 32.90 1.0
BRK 2.39 237 eP 09 32.10 0.0
WDC 2.54 303 eP 09 34.70 0.4
NWRM 2.57 254 eP 09 35.30 0.6
LBFM 2.68 323 eP 09 40.00 3.5
PCC 2.70 231 eP 09 37.30 0.9
LLA 2.77 200 iPd 09 38.10 0.6
SAO 2.80 209 eP 09 38.57 0.6
GCC 2.82 220 eP 09 39.00 0.8
PRI 3.16 194 eP 09 44.53 1.4
FHC 3.62 297 e(P) 09 52.00 2.4
DUG 5.43 78 eP 10 18.50 3.1
PEC 5.71 158 e(P) 10 20.30 1.1
MSU 5.95 94 eP 10 23.00 0.3
23 obs. associated

& JAN 03, 1991 02h 21m 59.24s
39.218 N 119.731 W
DEPTH = 6.7km
NEVADA (37)
<REN>. MD 2.6 (REN). Felt in the Carson City area.

03d 02h

```
KVN      1.28  97 eP     22 23.90   0.5
CMB      1.29 204 eP     22 23.30  -0.1
ORV      1.41 284 eP     22 25.00  -0.4
BONR     1.69 138 eP     22 30.30   0.7
LTCM     2.09 299 eP     22 38.00   2.8
TNP      2.27 119 e(P)   22 38.00   0.0
ARN      2.34 218 eP     22 41.00   2.1
LBFM     2.69 323 eP     22 47.90   3.9
         8 obs. associated
-------------------------------------------
%  JAN  03, 1991  02h 39m 10.84± 1.53s
    3.915 N ± 9.1km    76.056 W ±17.7km
    DEPTH =  33.0km  (normal)
 COLOMBIA                          (103)
      MD 2.6 (UVC).

BUGC     0.20 264 ePc    39 18.10   0.5
                 eS      39 23.40
HOBC     0.44 350 eP     39 20.70   0.0
                 eS      39 28.20
CLMC     0.51 266 eP     39 21.10  -0.6
DIAC     0.64 193 eP     39 23.20  -0.3
                 eS      39 32.60
HOQC     0.73 232 eP     39 25.40   0.5
      S.D. = 0.7  on   5 of   5 obs.
-------------------------------------------
•  JAN  03, 1991  03h 45m 41.10± 1.94s
    37.918 N ±12.9km    20.687 E ±18.1km
    DEPTH =  10.0km  (geophysicist)
 IONIAN SEA                        (399)
      MD 3.2 (ATH).

VLS      0.27 344 ePb    45 46.30  -0.5
EVR      1.33  41 ePb    46 05.50  -0.2
VLI      2.16 123 ePn    46 17.50  -0.1
KZN      2.53  19 ePn    46 23.00   0.1
OHR      3.19   2 e(Pn)  46 33.00   0.7
      S.D  = 0.6  on   5 of   5 obs.
-------------------------------------------
%  JAN  03, 1991  04h 06m 23.26± 0.68s
    39.520 N ± 6.5km    28.836 E ± 6.3km
    DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      MD 3.0 (ISK).

DST      0.18 298 iPg    06 26.40  -1.0
KCT      0.82 333 ePg    06 40.00   0.9
IZI      0.95  31 ePg    06 42.00   0.6
ALT      1.09 115 ePg    06 43.00  -0.9
BNT      1.09 320 ePg    06 43.80   0.0
                 eSg     06 58.30
YLV      1.12  21 iPg    06 43.80  -0.6
                 iSg     06 58.80
KHL      1.31 156 iPn    06 48.30   0.8
EZN      1.96 280 ePn    06 57.00   0.1
      S.D. = 0.9  on   8 of   8 obs.
-------------------------------------------
?  JAN  03, 1991  05h 13m 44.92± 3.97s
    4.220 N ±24.6km    76.845 W ±28.9km
    DEPTH =  33.0km  (normal)
 COLOMBIA                          (103)
      MD 2.4 (UVC).

CLMC     0.44 140 eP     13 56.10   1.3
                 eS      14 04.00
BUGC     0.67 119 iPd    13 57.94  -0.1
                 eS      14 07.20
ANCC     0.70 182 eP     13 58.77   0.4
                 eS      14 08.60
HOBC     0.72  79 eP     13 58.71   0.0
HOQC     0.78 164 eP     13 59.05  -0.6
                 eS      14 09.10
DIAC     1.13 145 ePc    14 03.62  -1.0
      S.D. = 1.0  on   6 of   6 obs.
-------------------------------------------
•  JAN  03, 1991  05h 25m 28.90± 0.86s
    62.139 N ±12.0km    26.781 W ±11.6km
    DEPTH =  10.0km  (geophysicist)
    4.5mb (  8 obs.)  4.0Msz (  1 obs.)
 ICELAND REGION                    (637)

REY      2.99  46 iP     26 14.40  -2.7
AKU      5.23  43 eP     26 49.50   0.6
        1.5s   344.44nm          5.8mb X
LOR     22.83 117 eP     30 32.50  -0.3
        1.0s    18.00nm          4.5mb
      Z  20s     0.57um          4.0Msz
SSF     22.84 117 eP     30 31.30  -1.6
        1.1s    19.55nm          4.5mb
BGF     22.97 119 eP     30 33.50  -0.7
        0.8s    12.10nm          4.5mb
AVF     22.99 118 eP     30 32.80  -1.6
        0.9s     9.85nm          4.3mb
LBF     23.10 117 eP     30 35.60   0.1
HAU     23.32 112 eP     30 38.50   0.9
        1.2s    23.80nm          4.6mb
CDF     23.42 110 eP     30 38.80   0.2
        1.5s    52.25nm          4.9mb
BSF     23.65 112 eP     30 42.50   1.7
        1.5s    41.80nm          4.8mb
MOX     23.77 101 eP     30 43.00   1.1
CLL     23.96  99 e(P)   30 46.00   2.3
KHC     25.74 102 eP     31 02.30   1.5
YKA     37.80 311 P      32 47.00   0.6
BW06    50.14 288 eP     34 26.70   0.4
        0.7s     2.63nm          4.3mb
TIC     57.66 154 P      35 20.20  -1.3
LIC     58.07 154 P      35 23.10  -1.2
      S.D. = 1.4  on  17 of  17 obs.
-------------------------------------------
•  JAN  03, 1991  05h 27m 47.65± 1.24s
    6.665 N ± 9.7km    76.347 W ±23.9km
    DEPTH =  33.0km  (normal)
 NORTHERN COLOMBIA                 ( 99)
      MD 4.7 (UVC).

HOBC     2.30 175 eP     28 23.98  -0.2
                 eS      28 54.80
BUGC     2.75 178 ePc    28 31.01   0.4
CLMC     2.77 184 ePc    28 30.96   0.1
ANCC     3.17 189 eP     28 36.19  -0.2
                 eS      29 16.20
HOQC     3.19 185 eP     28 36.33  -0.6
                 eS      29 16.40
DIAC     3.35 177 eP     28 39.75   0.5
                 eS      29 22.40
UPA      3.91 306 eP     28 47.00   0.2
YKA     62.34 341 P      38 08.80  -0.2
      S.D. = 0.4  on   8 of   8 obs.
-------------------------------------------
    JAN  03, 1991  06h 02m 24.51± 0.87s
    14.844 S ± 5.5km   168.022 E ± 4.7km
    DEPTH =  40.8 ±  7.6 km
    5.1mb ( 12 obs.)
 VANUATU ISLANDS                   (186)

BKM      2.82 176 iP     03 07.50  -0.6
PVC      2.89 175 iPc    03 09.30   0.1
DZM      7.34 192 iPd    04 08.10  -4.0X
                 iS      05 29.90
HNR      9.55 303 eP     04 42.00  -0.6
                 eS      06 28.00
SVO      9.82 304 eP     04 49.00   2.7X
                 eS      06 36.00
VSG      9.84 303 eP     04 47.00   0.4
                 eS      06 30.00
SGE      9.89 107 eP     04 48.20   0.8
BRS     18.90 226 eP     06 37.00  -7.5X
PMG     21.10 282 eP     07 09.00   1.0
RMQ     21.40 234 iPc    07 12.90   1.9
        0.8s   115.00nm          5.3mb
COO     21.56 221 iPd    07 13.00   0.4
                 i       07 15.30
QLP     25.08 238 eP     07 47.00   0.1
CMS     26.20 227 iPc    07 56.90  -0.4
        1.0s    41.00nm          5.0mb
CNB     26.39 216 iPd    07 59.10   0.0
TOO     30.20 217 iPc    08 33.00  -0.4
        0.9s    59.00nm          5.4mb
BFD     31.74 221 iPd    08 49.90   3.0X
ADE     33.09 227 eP     08 58.00  -0.8
        0.9s    30.25nm          5.2mb
FORR    39.85 239 eP     09 55.50  -0.4
WARB    40.21 247 eP     09 59.00   0.0
MBL     46.12 255 eP     10 46.00  -1.0
        0.6s    25.00nm          5.3mb
MDJ     68.72 332 eP     13 26.00  -0.1
CN2     70.12 329 P      13 34.60  -0.1
PSI     70.56 278 ePd    13 37.50  -0.5
GYA     72.38 304 P      13 48.20  -0.6
TIY     73.84 317 eP     13 58.00   1.0
XAN     74.30 312 eP     13 59.50  -0.3
CHG     75.79 294 eP     14 08.90   0.4
CHTO    75.79 294 eP     14 08.80   0.3
        0.8s     7.32nm          4.7mb
BTO     76.99 318 eP     14 15.00   0.0
LZH     78.94 312 eP     14 25.50  -0.4
        1.5s    28.00nm          5.0mb
                  pP     14 40.00  51kmX
GTA     83.27 314 eP     14 49.20   0.6
        5.0s   410.00nm          5.8mb X
                  pP     14 57.40  26kmX
WDC     84.62  46 eP     14 54.50  -0.7
CMB     85.13  49 eP     14 57.70  -0.1
FRI     85.22  50 eP     14 58.60   0.4
SBB     85.79  53 eP     15 01.00  -0.2
RVR     85.89  53 eP     15 01.00  -0.6
PLM     86.07  54 eP     15 03.00   0.2
CLC     86.37  52 eP     15 04.00  -0.1
GSC     86.79  52 eP     15 09.00   2.8X
GLA     87.57  55 eP     15 10.00   0.1
GUN     90.09 299 PKP    15 21.92  -0.4
PKI     90.39 298 PKP    15 22.86  -0.9
        0.9s    15.00nm          5.3mb
KKN     90.56 298 PKP    15 23.64  -0.7
DMN     90.66 298 PKP    15 24.48  -0.4
GKN     91.17 299 PKP    15 25.90  -1.2
        0.9s    14.00nm          5.4mb
WMQ     93.33 314 iPd    15 37.10   0.6
GBA     93.96 283 Pd     15 40.00   0.1
        0.5s     0.70nm          4.3mb
ALQ     94.77  55 eP     15 43.00  -0.5
        0.8s     1.31nm          4.4mb
YKA     97.31  27 eP     15 52.00  -2.2
        0.8s     2.10nm          4.7mb
PPD    126.80 133 ePKP   21 24.80  -1.5
PDCR   141.76 134 ePKP   21 46.90  -7.6X
SOB1   142.68 128 ePKP   21 53.30  -2.8X
                  e      21 56.60
ARV    144.37 328 PKP    21 57.70  -0.5
VAI    144.49 335 PKP    21 57.50  -0.7
SFI    144.61 330 PKPc   22 00.30   1.8
CRE    144.78 329 PKP    21 58.70  -0.3
ASS    144.82 328 PKP    21 59.00   0.0
TDS    144.99 320 PKP    21 59.50   0.2
ORX    145.00 335 PKP    21 57.71  -1.6
FIR    145.00 330 ePKP   21 59.00  -0.1
SGO    145.05 322 PKP    21 59.00  -0.3
LOR    145.09 341 ePKP   21 58.60  -0.6
        1.4s    41.40nm
BDI    145.10 331 PKP    21 49.80  -9.7X
SDI    145.16 325 PKP    21 59.30  -0.3
AZI    145.17 326 PKP    22 00.50   1.0
LBF    145.30 341 ePKP   21 59.40  -0.3
        0.8s    12.10nm
GRR    145.31 347 ePKP   21 59.30  -0.2
        0.8s    21.50nm
SSF    145.38 341 ePKP   21 59.70   0.0
        1.0s    47.00nm
LSD    145.48 336 PKP    22 00.58   0.3
PCP    145.65 334 PKP    21 59.39  -1.0
AVF    145.67 341 ePKP   22 00.40   0.2
        1.4s    26.15nm
LPF    145.69 347 ePKP   22 00.70   0.5
        1.2s    68.45nm
BNI    146.00 336 PKP    22 02.90   1.9
BGF    146.03 342 ePKP   22 01.50   0.6
        0.8s    18.15nm
FIN    146.06 334 PKP    21 59.55  -1.5
RRL    146.07 336 PKP    22 02.01   0.7
PZZ    146.28 335 PKP    22 00.88  -0.6
MAF    146.42 342 ePKP   22 03.00   1.5
        1.2s    14.90nm
TCF    146.47 342 ePKP   22 03.10   1.5
        0.7s     9.35nm
SBF    146.67 334 ePKP   22 03.50   1.5
        0.7s    22.05nm
LSF    146.70 343 ePKP   22 03.60   1.7
MFF    146.82 345 ePKP   22 04.00   1.9
        1.0s    34.00nm
PGF    147.01 331 ePKP   22 04.90   2.2X
        1.2s    65.45nm
FRF    147.25 335 ePKP   22 05.30   2.4X
        1.1s    34.20nm
MEU    147.39 318 PKP    21 56.90  -6.5X
LRG    147.45 335 ePKP   22 06.10   2.9X
        1.6s    93.30nm
LMR    147.49 335 ePKP   22 05.90   2.7X
        1.2s    47.60nm
RJF    147.56 342 ePKP   22 06.30   3.0X
        0.8s    16.10nm
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CAF    147.74 341 ePKP  22 07.20   3.5X
        1.4s     56.65nm
LFF    148.12 343 ePKP  22 07.90   3.7X
LPO    148.23 342 ePKP  22 08.40   4.0X
BCAO   148.24 254 iPKPd 22 05.10  -0.3
        0.5s     43.00nm
                   i     22 09.00
EPF    149.98 342 ePKP  22 12.70   5.4X
        1.2s     38.70nm
      S.D. = 0.9  on  75 of  93 obs.
-------------------------------------
&  JAN 03, 1991  06h 52m 25.98s
   58.999 N          153.237 W
   DEPTH =  76.2km
 KODIAK ISLAND REGION              ( 13)
      <AEIC>.

CDD      0.22 252 iP    52 37.00  -0.6
                  iS    52 45.32
AUI      0.35 344 eP    52 37.82  -0.5
AUE      0.37 349 eP    52 38.10  -0.3
AGU      0.38 345 eP    52 37.09  -1.6
AUP      0.38 346 eP    52 38.45  -0.2
AUH      0.38 344 eP    52 38.74   0.1
SYI      0.59 131 iP    52 39.67  -0.7
                  eS    52 49.84
MCNL     0.60 289 eP    52 40.07  -0.4
OPT      0.66   0 iP    52 40.59  -0.5
                  eS    52 51.76
XLV      0.90  59 eP    52 43.22  -0.7
PDB      0.93 329 iP    52 43.35  -0.9
                  eS    52 56.49
HOM      1.05  50 eP    52 45.19  -0.5
INE      1.07   5 iP    52 44.91  -1.2
CNPM     1.16  62 eP    52 46.19  -0.9
                  eS    53 01.44
BRLK     1.43  56 eP    52 49.77  -0.9
NNL      1.44  43 eP    52 50.70  -0.1
RSO      1.49   9 eP    52 50.49  -1.1
RS2      1.49   9 eP    52 50.53  -1.1
REF      1.52  10 eP    52 50.84  -1.2
RDN      1.54   9 eP    52 51.11  -1.1
NCT      1.58   6 eP    52 51.80  -0.9
RDT      1.63  15 iP    52 52.12  -1.3
SLKM     2.15  44 eP    52 58.64  -1.8
SEW      2.22  59 eP    52 59.56  -1.8
CKL      2.25  11 eP    53 00.86  -1.0
SPU      2.27  15 eP    53 01.01  -1.1
BGL      2.31  10 eP    53 01.99  -0.7
CGLM     2.40  14 eP    53 02.67  -1.2
NCG      2.47  12 eP    53 03.90  -1.1
SUA      2.77  26 eP    53 08.05  -1.0
PMS      2.91  38 eP    53 09.27  -1.7
SKT      3.11  15 eP    53 12.02  -1.7
PLRM     3.31  36 eP    53 13.98  -2.4
KNK      3.40  43 eP    53 15.15  -2.6
GHO      3.51  36 eP    53 16.82  -2.5
GLI      3.62  56 eP    53 17.26  -3.6
       36 obs. associated
-------------------------------------
*  JAN 03, 1991  07h 05m 32.83± 0.85s
   24.670 N ±13.1km   95.553 E ±16.9km
   DEPTH =  33.0km  (normal)
   4.8mb (  2 obs.)
 BURMA                             (296)

CHG      6.62 151 eP    07 10.50   0.0
CHTO     6.62 151 eP    07 10.90   0.4
BDT      8.06 156 eP    07 30.00  -0.5
GBA     20.32 241 P     10 09.00   0.1
HFS     64.92 327 eP    16 11.20   0.1
        0.8s     12.30nm          5.1mb
NB2     66.03 328 P     16 18.00  -0.2
        0.8s     3.30nm           4.5mb
      S.D. = 0.4  on   6 of   6 obs.
-------------------------------------
%  JAN 03, 1991  07h 09m 58.99± 1.54s
   40.863 N ±12.6km   27.615 E ± 9.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      MD 2.9 (ISK).

BNT      0.56 155 ePg   10 10.70   0.4
                  eSg   10 17.70
KCT      0.83 137 ePg   10 14.00  -1.1
ISK      1.11  79 ePn   10 19.70  -0.1
EZN      1.43 224 iPn   10 24.70  -0.2
DST      1.48 148 ePn   10 26.50   0.8
IZI      1.51 110 ePn   10 26.00  -0.1
HRT      1.56  91 ePn   10 27.20   0.4
      S.D. = 0.8  on   7 of   7 obs.
-------------------------------------
   JAN 03, 1991  07h 17m 19.98± 0.43s
   38.292 N ± 4.7km   20.752 E ± 2.8km
   DEPTH =  10.0km  (geophysicist)
   3.7mb (  3 obs.) 3.8Msz (  1 obs.)
 GREECE                            (364)
      ML 3.7 (ATH). MD 3.8 (THE), 3.8
      (TTG).

VLS      0.17 228 iPgc  17 25.00   1.1
EVR      1.04  53 ePn   17 38.50  -1.1
IGT      1.28 345 ePd   17 44.72   1.0
                  eS    18 03.12
AGG      1.43  59 ePc   17 46.68   0.6
                  eS    18 08.00
KEK      1.60 333 ePn   17 51.00   2.6X
KZN      2.16  21 ePn   17 58.00   1.4
NEO      2.18  62 ePn   17 57.30   0.5
LIT      2.26  36 ePc   17 58.28   0.4
                  eS    18 30.64
VLI      2.34 131 ePg   18 03.80   4.7X
ATH      2.36  97 ePn   17 59.50   0.2
FNA      2.54  11 iPc   18 02.50   0.6
                  eS    18 37.60
PAIG     2.80  53 ePd   18 05.25  -0.4
                  eS    18 42.16
OHR      2.82   1 iPn   18 06.70   0.8
                  Lg    19 07.10
THE      2.90  36 ePc   18 07.92   1.0
                  eS    18 43.96
PLG      2.95  44 ePn   18 07.50  -0.2
GRG      2.95  25 ePd   18 07.40  -0.4
LCI      2.98 314 P     18 09.00   0.9
SOH      3.23  38 ePd   18 11.28  -0.5
OUR      3.23  50 ePd   18 10.72  -1.0
KNT      3.31  29 ePc   18 12.96   0.1
VAY      3.33  24 iPn   18 13.40   0.2
SRS      3.57  37 ePd   18 15.92  -0.6
TDS      3.70 293 P     18 20.30   1.8
SKO      3.71   8 iPn   18 17.60  -1.0
                  i     18 26.40
                  i     18 59.60
BRT      3.77 314 P     18 22.00   2.6X
ORI      3.78 299 P     18 21.60   2.0
ULC      3.84 343 ePn   18 19.40  -1.1
                  eSn   19 02.20
APE      3.98 106 ePn   18 23.50   1.1
MMB      4.01  34 iPc   18 23.50   0.7
BAI      4.12 315 P     18 24.00  -0.2
BDV      4.25 340 ePn   18 24.50  -1.7
                  eSn   19 10.00
TTG      4.29 345 ePn   18 25.30  -1.4
                  eSn   19 11.30
PVY      4.34 352 ePn   18 27.10  -0.5
                  eSn   19 14.40
PRK      4.42  76 ePn   18 30.00   1.4
HCY      4.49 338 ePn   18 27.10  -2.5
                  eSn   19 15.00
RZN      4.56  41 iPc   18 31.50   0.8
EZN      4.60  69 ePn   18 32.00   0.8
IVA      4.62 352 ePn   18 31.20  -0.3
                  eSn   19 22.00
RDO      4.66  51 iPnd  18 31.20  -0.9
VTS      4.69  23 iPc   18 34.00   1.5
MEU      4.77 257 Pc    18 32.20  -1.5
SGO      4.78 300 P     18 35.80   2.0
MNO      4.79 268 P     18 34.10   0.0
ALN      4.85  56 iPc   18 33.69  -1.0
PLD      4.86  37 eP    18 38.20   3.3X
KDZ      4.91  45 iP    18 35.00  -0.5
IZM      5.12  87 ePn   18 39.00   0.4
DIM      5.24  43 eP    18 41.70   1.4
GIB      5.31 269 P     18 41.70   0.4
FAI      5.70 262 P     18 46.50  -0.2
HVAR     5.87 328 iPn   18 46.70  -2.4
                  iSn   19 51.90
DUI      5.89 307 P     18 51.40   2.0
USI      5.96 276 P     18 49.10  -1.2
PVL      6.02  34 eP    18 50.00  -1.2
JM8      6.10  45 eP    18 51.80  -0.5
SDI      6.32 305 P     18 56.50   0.9
AZI      6.71 306 P     19 02.50   1.5
ASS      7.78 310 P     19 16.80   0.8
ARV      7.87 314 P     19 17.50   0.2
MLR      8.17  27 eP    19 27.50   6.0X
VBY      8.29 332 eP    19 24.50   1.5
                  eSn   20 49.60
RIY      8.50 328 ePn   19 25.60  -0.3
                  iSn   20 53.50
CRE      8.53 311 P     19 26.60   0.1
SFI      8.76 313 P     19 30.50   1.0
VRI      8.78  28 ePc   19 31.50   1.7
CEY      8.80 330 ePn   19 30.00  -0.2
                  e     19 39.00
                  eSn   21 03.50
LJU      9.01 331 eP    19 36.00   2.9X
                  e     19 47.50
                  eSn   21 08.50
TRI      9.05 327 eP    19 31.10  -2.4
                  e     21 01.10
VOY      9.26 329 ePn   19 33.10  -3.4X
                  eSn   21 10.70
FVI     10.17 327 P     19 48.50  -0.4
CTI     10.28 322 P     19 51.00   0.5
KBA     10.33 331 eP    19 52.50   1.1
                  eS    21 38.50
SOTA    11.34 325 iPc   20 03.70  -1.4
        0.3s     3.30nm           5.1mb X
                  iS    22 06.80
VAI     11.68 314 P     20 10.00   0.5
HFS     22.32 351 eP    22 16.00  -2.9
        0.4s     2.10nm           4.0mb
NUR     22.38   5 eP    22 19.00  -0.5
NB2     23.54 348 P     22 27.50  -3.5X
        0.6s     1.60nm           3.8mb
KIC     39.30 222 P     24 48.60  -2.2
LIC     39.56 223 P     24 51.00  -2.0
      Z 20s      0.14um           3.8Msz
YKA     73.35 340 eP    28 50.20  -3.1X
        0.5s     0.20nm           3.4mb
      S.D. = 1.2  on  71 of  80 obs.
-------------------------------------
%  JAN 03, 1991  07h 53m 19.19± 0.73s
   37.072 N ± 7.7km   4.521 W ± 6.1km
   DEPTH =  10.0km  (geophysicist)
 SPAIN                             (377)
      mbLg 2.5 (MDD).

MAL      0.36 166 iP    53 27.60   1.1
                  eS    58 50.40
EPRU     0.58 260 ePg   53 30.00  -0.9
                  eSg   53 41.90
LIJA     0.73 257 iP    53 33.00  -0.7
ECOG     0.79  75 ePg   53 34.30  -0.3
                  eSg   53 48.00
AFC      0.80  77 ePg   53 35.00   0.1
                  eSg   53 48.00
EHOR     0.94 322 iPnd  53 38.80   1.7
                  eSn   53 54.00
EBAN     1.24  28 iPnd  53 42.90   0.7
                  eSn   54 01.00
ENIJ     1.85  92 ePn   53 46.20  -5.0X
                  eSn   54 08.00
EVIA     2.23  45 ePn   53 55.20  -1.7
                  eSn   54 22.00
      S.D. = 1.3  on   8 of   9 obs.
-------------------------------------
   JAN 03, 1991  08h 14m 07.71± 1.25s
   41.120 N ±10.4km   22.401 E ± 6.2km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                        (383)
      MD 3.1 (ATH), 2.9 (THE).

GRG      0.16 180 iP    14 11.09  -0.4
KNT      0.38  83 iP    14 15.84   0.4
THE      0.65 139 iP    14 19.50  -1.2
                  eS    14 28.38
SOH      0.78 112 iP    14 22.41  -0.5
                  eS    14 33.41
FNA      0.85 247 iP    14 23.28  -0.8
                  eS    14 32.60
SRS      0.90  90 iP    14 25.00   0.0
                  eS    14 37.76
KZN      0.94 211 ePg   14 25.20  -0.5
LIT      1.02 176 eP    14 26.52  -0.5
                  eS    14 41.60
PLG      1.09 133 ePg   14 28.00  -0.2
PAIG     1.54 140 iP    14 35.82   0.6
                  eS    14 57.60
NEO      1.92 161 ePb   14 40.70   0.0
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03d 08h

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AGG      2.10 182 eP     14 43.76    0.4
EVR      2.25 192 ePg    14 48.00    2.4
RDO      2.37  88 ePn    14 51.00    3.8X
      S.D. = 1.0  on  13 of  14 obs.
-------------------------------------------
•  JAN  03, 1991  08h 18m 16.36± 2.24s
    7.008 S ±12.8km  129.605 E ±17.0km
   DEPTH = 133.6 ± 24.9 km
   4.8mb (  2 obs.)
 BANDA SEA                          (280)

MTN      5.99 166 eP     19 44.40    0.4
KNA      8.73 185 eP     20 19.50   -1.4
        0.3s    36.00nm          5.6mb X
                 eS     21 49.00
QIS     16.59 145 eP     22 03.00    0.4
                 eS     24 55.00
MBL     16.95 213 eP     22 08.00    1.1
                 e      23 50.50
WARB    19.28 188 eP     22 33.00   -0.2
                 eS     26 00.00
FORR    23.76 183 eP     23 17.50   -0.1
        0.4s    32.00nm          5.1mb
CHTO    39.65 311 eP     25 37.80    0.9
        0.8s     6.59nm          4.4mb
GUN     54.66 311 P      27 34.00   -0.3
PKI     54.83 311 P      27 35.40   -0.1
KKN     55.05 311 P      27 36.40   -0.5
DMN     55.08 311 P      27 37.00   -0.2
GKN     55.64 311 P      27 40.80   -0.3
      S.D. = 0.8  on  12 of  12 obs.
-------------------------------------------
   JAN  03, 1991  08h 23m 19.53± 0.44s
   62.183 N ± 8.1km   26.658 W ± 6.6km
   DEPTH =  10.0km  (geophysicist)
   4.6mb ( 21 obs.)  4.1Msz (  2 obs.)
 ICELAND REGION                     (637)

REY      2.92  46 iP     24 05.40   -1.3
                 eS     24 48.30
HAH      3.12  49 P      24 07.20   -2.4
AKU      5.15  43 eP     24 39.40    0.9
        1.3s   338.46nm         5.8mb X
GDH     13.02 314 eP     26 25.00   -2.0
                 i      26 28.00
NB2     17.88  77 P      27 30.70    1.1
        1.1s     4.60nm          3.5mb X
GRR     19.97 122 eP     27 49.60   -4.8X
LDF     20.10 120 eP     27 49.10   -6.7X
ABH     22.42 108 eP     28 19.47    0.1
LOR     22.79 117 eP     28 23.00   -0.1
        1.1s    40.30nm          4.8mb
     Z  20s     1.13um          4.3Msz
SSF     22.81 118 eP     28 23.10   -0.1
        1.1s    40.30nm          4.8mb
TCF     22.90 121 eP     28 26.60    2.4
        1.0s    29.00nm          4.8mb
AVF     22.96 118 eP     28 24.60   -0.1
LBF     23.07 117 eP     28 26.00    0.2
        1.0s    32.00nm          4.8mb
MAF     23.10 120 eP     28 27.60    1.5
HAU     23.28 112 eP     28 27.80   -0.1
        1.0s    18.00nm          4.6mb
     Z  22s     0.55um          4.0Msz
CDF     23.38 110 eP     28 29.10    0.2
        1.2s    29.75nm          4.7mb
RJF     23.43 123 eP     28 33.60    4.3X
BSF     23.61 112 eP     28 32.40    1.3
        1.0s    14.00nm          4.5mb
MOX     23.72 101 eP     28 33.00    0.9
        1.4s    31.00nm          4.7mb
CLL     23.91  99 iPd    28 38.60    4.8X
                 e      28 48.00
CAF     23.96 123 eP     28 42.10    7.6X
        1.1s    59.85nm          5.1mb
BRG     24.64  99 eP     28 41.80    0.8
        1.5s    25.00nm          4.6mb
                 i      28 53.20
PRU     25.53  99 P      28 48.30   -1.1
        1.2s    13.20nm          4.5mb
                 e      29 08.00
KHC     25.69 102 iP     28 51.40    0.4
        1.4s    15.00nm          4.5mb
KSP     25.76  96 ePc    28 51.00   -0.5
KRA     28.00  94 eP     29 05.50   -6.5X
YKA     37.82 311 eP     30 37.30    0.1
        1.2s     4.70nm          4.1mb
INK     39.71 326 eP     30 54.00    1.1
FBA     45.95 329 eP     31 45.70    2.1
        0.9s     1.10nm          3.8mb
LRM     49.05 293 eP     32 09.70    1.2
BW06    50.18 288 e(P)   32 16.80   -0.4
ALQ     55.13 280 eP     32 54.50    0.4
        1.0s     3.75nm          4.4mb
TIC     57.68 154 P      33 09.80   -2.4
        0.8s     6.50nm          4.7mb
KIC     58.01 154 P      33 12.00   -2.6
LIC     58.08 154 P      33 12.60   -2.5
        0.8s     4.50nm          4.6mb
BCAO    66.58 130 ePc    34 11.10   -0.7
        0.8s     7.00nm          4.9mb
GKN     74.82  59 P      35 00.00   -1.7
KKN     75.27  58 P      35 04.62    0.3
        0.7s     8.00nm          4.9mb
DMN     75.36  58 P      35 05.44    0.5
GUN     75.40  58 P      35 05.48    0.2
PKI     75.51  58 P      35 05.98    0.1
SIV     82.51 213 eP     35 45.00    1.6
GBA     84.53  71 Pc     35 54.20    0.4
        0.7s     2.00nm          4.5mb
CHTO    88.60  50 eP     36 13.90    0.1
        1.0s     4.25nm          4.7mb
      S.D. = 1.3  on  38 of  44 obs.
-------------------------------------------
   JAN  03, 1991  09h 13m 32.85± 0.48s
   44.349 N ± 3.0km    6.737 E ± 4.2km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                             (538)
      ML 2.3 (LDG).

PZZ      0.30  59 P      13 39.96    0.7
                 S      13 44.58
STV      0.43 104 P      13 41.60   -0.1
                 S      13 47.86
ENR      0.51 104 P      13 42.42   -0.7
                 S      13 49.40
RRL      0.57   3 P      13 44.27   -0.3
                 S      13 53.09
SBF      0.70 134 Pg     13 46.70    0.0
                 Sg     13 55.80
FRF      0.79 185 Pg     13 48.00   -0.2
                 Sg     13 58.00
ROB      0.82  93 P      13 48.99    0.3
                 S      13 59.86
LRG      0.93 197 Pg     13 51.30    0.6
                 Sg     14 04.00
IMI      0.94 117 P      13 50.83    0.0
                 S      14 04.37
LMR      1.03 189 Pg     13 52.40    0.1
                 Sg     14 06.00
FIN      1.07  97 P      13 53.09    0.1
                 S      14 07.24
LSD      1.15  15 P      13 54.63    0.1
                 S      14 10.89
LPG      1.15   1 Pg     13 54.20   -0.3
                 Sg     14 09.80
PCP      1.31  81 P      13 57.50    0.4
                 S      14 14.44
PGF      2.44 137 Pn     14 12.80   -0.7
      S.D. = 0.5  on  15 of  15 obs.
-------------------------------------------
   JAN  03, 1991  09h 14m 38.25± 0.48s
   40.733 N ± 3.8km   23.327 E ± 4.4km
   DEPTH =  10.0km  (geophysicist)
 GREECE                             (364)
      MD 2.7 (ATH).

SOH      0.09  13 iP     14 41.57    0.7
                 eS     14 43.72
THE      0.29 250 iP     14 44.14   -0.2
                 iS     14 47.94
PLG      0.37 166 iPgc   14 45.70   -0.2
SRS      0.43  27 eP     14 47.01   -0.1
                 iS     14 53.80
KNT      0.54 323 eP     14 48.69   -0.4
                 iS     14 55.69
OUR      0.64 128 iP     14 51.42    0.4
                 iS     15 01.14
GRG      0.74 288 eP     14 52.53   -0.2
                 eS     15 02.72
VAY      0.82 316 ePn    14 53.70   -0.4
PAIG     0.85 161 eP     14 53.88   -0.7
                 eS     15 06.20
LIT      0.90 226 eP     14 55.48    0.0
                 eS     15 06.92
KZN      1.26 251 ePb    15 03.00    1.3
RDO      1.72  75 ePn    15 14.00    5.6X
      S.D. = 0.6  on  11 of  12 obs.
-------------------------------------------
   JAN  03, 1991  09h 16m 00.76± 0.84s
   15.585 S ± 5.9km  167.550 E ± 7.1km
   DEPTH = 130.3 ±  7.3 km
   5.0mb (  9 obs.)
 VANUATU ISLANDS                    (186)

BKM      2.18 162 iP     16 36.50   -0.9
                 iS     17 06.00
PVC      2.26 161 iPd    16 38.30   -0.2
                 iS     17 05.50
DZM      6.54 189 iPc    17 36.00    0.1
                 iS     18 46.90
HNR      9.62 309 ePc    18 17.00   -0.3
                 eS     19 55.00
SVO      9.90 309 eP     18 23.00    2.0
                 eS     19 22.00
VSG      9.91 309 eP     18 22.00    0.8
                 eS     20 11.00
BRS     18.06 227 iPd    20 06.10    1.2
RMQ     20.60 235 iPd    20 33.20    1.8
        0.9s   127.00nm          5.3mb
COO     20.70 221 iPd    20 33.20    0.8
CTA     20.76 254 iPd    20 32.60   -0.4
        1.0s    66.00nm          5.0mb
PMG     20.83 285 eP     20 32.00   -1.7
WLZ     23.28 164 P      20 59.10    1.5
QLP     24.31 239 iPd    21 08.00    0.4
PUZ     24.31 159 eP     21 07.80    0.2
NOZ     24.73 160 eP     21 12.50    1.1
CMS     25.36 228 iPd    21 17.00   -0.4
CNB     25.52 216 iPd    21 19.30    0.4
MNG     25.88 166 P      21 20.70   -1.4
        0.6s    16.00nm          4.8mb
PGZ     26.07 165 P      21 22.00   -1.8
        0.4s    26.00nm          5.2mb
QIS     27.00 255 iPd    21 31.00   -1.5
TOO     29.33 218 iPc    21 53.20   -0.1
KNA     37.31 264 eP     23 00.00   -2.1
FORR    39.08 240 iPd    23 16.30   -0.5
        0.4s    32.00nm          5.4mb
WARB    39.50 248 eP     23 20.00   -0.3
MBL     45.49 256 iPd    24 08.10   -0.8
        0.6s    24.00nm          5.1mb
MAT     58.78 333 eP     25 45.00   -2.5
MDJ     69.16 332 eP     26 55.50    0.6
GYA     72.42 305 P      27 14.60   -0.4
BJI     73.10 321 eP     27 18.00   -0.5
XAN     74.46 313 iPc    27 26.00   -0.7
CHTO    75.68 294 eP     27 33.90    0.1
        1.0s     4.75nm          4.2mb
                 pP     28 04.50 121kmX
HHC     76.41 320 eP     27 39.00    1.4
LZH     79.09 312 P      27 52.00   -0.5
        1.5s    25.00nm          4.8mb
GTA     83.45 314 eP     28 15.40    0.2
        4.0s   330.00nm          5.6mb X
WMQ     93.52 314 eP     29 02.60   -0.4
YKA     98.18  27 eP     29 21.10   -2.5
        0.8s     1.30nm          4.5mb
SOD    122.39 343 ePKP   34 42.00    0.7
NUR    127.76 338 ePKP   34 37.00  -14.9X
APO    131.21 343 ePKP   34 57.30   -1.2
        0.9s    20.30nm
NB2    131.52 345 PKP    34 58.20   -0.9
        0.8s     2.90nm
CLL    138.94 336 iPKPc  35 15.00    1.7
SOB1   142.57 129 (PKP)  35 17.00   -3.9X
CDF    143.47 338 ePKP   35 18.00   -3.6X
        1.4s    30.50nm
CTI    143.54 331 PKP    35 18.00   -3.8X
OSS    143.72 333 ePKPd  35 19.80   -2.4X
BSF    144.13 338 ePKP   35 19.90   -2.8X
HAU    144.14 338 ePKP   35 20.10   -2.5X
        0.9s    18.00nm
VDL    144.17 334 ePKPd  35 21.10   -1.9
TMA    144.72 334 ePKPd  35 22.40   -1.5
ARV    144.75 327 PKPc   35 24.80    1.0
VAI    144.96 334 PKP    35 23.80   -0.2
SFI    145.01 329 PKP    35 25.10    1.0
MMK    145.14 335 ePKPd  35 24.40   -0.3
CRE    145.17 328 PKP    35 26.00    1.4
DIX    145.35 335 ePKPd  35 25.10    0.0
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FLN   145.49 346 iPKPc 35 24.20  -0.6
       0.8s    51.05nm
EMS   145.54 336 ePKPd 35 25.30   0.0
LDF   145.56 345 iPKPc 35 24.50  -0.5
       0.7s    23.15nm
LOR   145.63 340 ePKP  35 25.40   0.2
       0.9s    29.50nm
LBF   145.84 340 ePKP  35 26.40   0.8
       1.2s    65.45nm
GRR   145.92 346 ePKP  35 25.90   0.3
       0.9s    36.05nm
SSF   145.93 340 iPKPc 35 26.30   0.7
       0.7s    27.00nm
LPL   146.08 336 ePKP  35 27.20   0.9
       0.7s     6.60nm
LPG   146.09 336 ePKP  35 27.20   0.8
       0.6s     6.30nm
SMF   146.18 340 ePKP  35 27.00   0.9
       1.0s    33.00nm
AVF   146.21 340 ePKP  35 26.80   0.7
       1.2s    37.20nm
LPF   146.30 346 iPKPc 35 27.10   0.9
       0.8s    34.90nm
BNI   146.48 335 PKP   35 28.50   1.7
MAF   146.97 341 ePKP  35 29.30   1.9X
       0.9s    15.55nm
TCF   147.02 341 ePKP  35 29.40   1.9X
       0.8s    13.45nm
LSF   147.27 342 ePKP  35 29.80   2.0X
       0.7s    27.55nm
MFF   147.41 344 iPKPc 35 30.40   2.4X
       0.8s    37.60nm
PGF   147.43 330 ePKP  35 32.80   4.5X
       1.0s    30.00nm
BCAO  147.59 253 iPKPc 35 32.50   3.2X
       0.5s    18.00nm
               i      36 04.20
               i      36 15.10
RJF   148.12 341 ePKP  35 32.50   3.3X
       0.8s    10.75nm
LFF   148.69 342 ePKP  35 33.40   3.3X
       1.2s    50.60nm
LPO   148.78 341 ePKP  35 34.30   4.0X
       1.0s    22.00nm
     S.D. = 1.1  on  61 of  77 obs.
-------------------------------------
   JAN  03, 1991  09h 31m 49.63± 0.73s
   36.813 N ± 6.3km   28.083 E ± 7.8km
   DEPTH =  10.0km  (geophysicist)
 DODECANESE ISLANDS              (369)
     MD 3.8 (ATH).

ARG     0.60 177 ePg   32 01.50  -0.2
CIN     0.79   0 ePg   32 04.00  -0.9
               iSg    32 14.00
SMG     1.34 312 eP    32 15.00   0.8
KSL     1.39 119 ePb   32 15.00  -0.1
ELL     1.47  92 iPn   32 16.00  -0.2
IZM     1.71 338 iPn   32 19.50  -0.2
KHL     1.89  37 iPn   32 23.90   1.5
APE     2.06 278 ePb   32 30.00   5.2X
BCK     2.10  71 iPn   32 25.50   0.1
ALT     2.75  35 ePn   32 41.20   6.5X
PRK     2.82 330 ePb   32 44.50   9.0X
DST     2.82   9 ePn   32 34.60  -1.0
EZN     3.31 336 ePn   32 47.00   4.5X
IZI     3.68  17 eP    32 59.00  11.1X
     S.D. = 0.9  on   9 of  14 obs.
-------------------------------------
   JAN  03, 1991  09h 40m 57.16± 0.52s
   20.171 S ± 8.6km  133.827 E ± 6.4km
   DEPTH =   5.0km  (geophysicist)
   4.3mb (  2 obs.)
 NORTHERN TERRITORY, AUSTRALIA   (591)

QIS     5.44  95 iPc   42 20.00  -0.9
               eS     43 18.00
               e      43 32.00
KNA     6.52 312 eP    42 34.40  -1.8
       0.3s    24.00nm          5.6mb X
               eS     43 48.00
MTN     7.73 340 eP    42 49.00  -4.1X
               eS     44 12.00
WARB    8.91 226 iPd   43 13.80   4.2X
               eS     45 54.00
OLP    11.49 126 eP    43 43.00  -2.0
               eS     45 45.00

CTA    11.68  92 eP    43 47.00  -0.6
FORR   11.82 205 eP    43 50.80   1.4
       0.3s    57.00nm          6.4mb X
MBL    13.14 263 eP    44 06.50  -0.7
               e      46 25.00
RMO    15.08 117 e(P)  44 45.60  12.9X
               eS     47 07.00
MEKA   15.43 243 eP    44 36.50  -0.8
CMS    15.60 139 eP    44 37.80  -1.6
               eS     47 22.00
KLB    18.37 229 iPc   45 12.70  -1.7
MRWA   18.52 237 eP    45 15.00  -1.3
BFD    18.57 158 e(P)  45 20.00   3.2X
               i      45 23.00
               eS     48 44.00
COO    19.31 126 iPc   45 28.00   2.0
NWAO   19.50 226 eP    45 28.50   0.2
MUN    19.68 230 eP    45 31.00   0.7
TOO    20.09 152 eP    45 37.00   2.4
CHTO   51.68 316 eP    50 06.10  -1.4
       1.1s     5.30nm          4.4mb
GBA    64.82 297 Pc    51 41.20   1.6
       0.7s     1.50nm          4.3mb
GUN    66.59 314 P     51 52.00   0.7
PKI    66.69 314 P     51 52.80   0.9
KKN    66.92 314 P     51 54.22   1.0
DMN    66.92 314 P     51 54.34   1.1
GKN    67.49 314 P     51 57.82   1.1
YKA   117.64  29 ePKP  59 45.00  -0.5
       0.5s     0.20nm
CNCB  137.47 148 PKP   00 38.00  12.6X
LPB   137.64 148 ePKP  00 32.00   6.4X
ZOBO  137.85 148 ePKP  00 19.00  -7.2X
               e      02 13.00
     S.D. = 1.4  on  22 of  29 obs.
-------------------------------------
?  JAN  03, 1991  09h 56m 05.78± 8.26s
    4.207 S ±90.5km   79.704 W ±67.3km
   DEPTH =  10.0km  (geophysicist)
   4.3mb (  1 obs.)
 PERU-ECUADOR BORDER REGION      (110)

TUNG    3.04  24 eP    56 55.40   0.2
               eS     57 25.00
VC1     3.77  20 eP    57 05.70  -0.1
               eS     57 45.00
GGP     4.16  15 eP    57 11.00  -0.2
               S      57 51.30
YANA    4.22  16 eP    57 11.30  -0.7
               S      57 53.10
CAYA    4.59  22 eP    57 16.80  -0.6
COTA    4.71  17 eP    57 20.50   1.4
ALQ    46.36 329 eP    04 34.30   0.0
       0.8s     2.43nm          4.3mb
     S.D. = 0.8  on   7 of   7 obs.
-------------------------------------
?  JAN  03, 1991  11h 31m 30.02± 8.00s
    4.613 N ±53.4km   76.928 W ±43.4km
   DEPTH =  33.0km  (normal)
 COLOMBIA                        (103)
     MD 3.1 (UVC).

CLMC    0.81 153 eP    31 45.40   0.2
HOBC    0.83 108 eP    31 45.43   0.0
BUGC    0.98 137 eP    31 47.45  -0.1
               eS     31 57.80
ANCC    1.09 177 eP    31 49.18   0.1
HOQC    1.17 166 eP    31 50.17  -0.3
DIAC    1.50 151 eP    31 55.20   0.1
               eS     32 11.40
     S.D. = 0.2  on   6 of   6 obs.
-------------------------------------
*  JAN  03, 1991  13h 16m 40.56± 1.49s
   38.086 N ±12.4km   20.215 E ± 9.6km
   DEPTH =  10.0km  (geophysicist)
 GREECE                          (364)
     ML 3.4 (ATH).

VLS     0.31  73 ePg   16 45.50  -1.5
EVR     1.50  56 ePb   17 06.30  -1.3
ITM     1.63 123 ePb   17 10.00   0.6
KEK     1.66 349 ePb   17 13.80   4.0X
KZN     2.53  28 ePn   17 24.00   1.7
NEO     2.65  62 ePn   17 23.20  -0.9
ATH     2.77  91 ePb   17 26.50   0.8
LCI     2.85 323 P     17 31.00   4.1X
OHR     3.06   8 iPn   17 31.20   1.4
               Lg     18 28.30
PLG     3.39  47 ePn   17 34.20  -0.4
BRT     3.63 321 P     17 42.00   4.0X
VAY     3.71  29 ePn   17 45.80   6.7X
SKO     3.99  13 ePn   17 42.50  -0.6
TTG     4.40 351 ePn   17 48.80  -0.1
               eSn    18 38.00
MMB     4.42  37 eP    17 51.80   2.6
HCY     4.55 344 ePn   17 50.40  -0.6
               eSn    18 40.00
RZN     4.99  42 eP    17 57.20  -0.3
HVAR    5.84 332 ePn   18 08.80  -0.4
               iSn    19 14.00
VOY     9.22 331 ePn   18 55.80  -0.8
               eSn    20 36.60
     S.D. = 1.3  on  15 of  19 obs.
-------------------------------------
   JAN  03, 1991  13h 18m 49.28± 0.10s
    7.179 S ± 2.5km  148.540 E ± 2.6km
   DEPTH =  14.0km  (geophysicist)
   6.0mb ( 53 obs.)  6.0Msz ( 26 obs.)
 EAST PAPUA NEW GUINEA REGION    (207)
     Ms 6.2 (BRK), 6.0 (PAS), ML 5.8
     (PMG). Mo=3.0*10**18 Nm (PPT).
     Depth from broadband
     displacement seismograms.
     FAULT PLANE SOLUTION: P-Waves
      NP1:Strike=260 Dip=75 Slip= -25
      NP2:       357     66      -164
      Principal Axes:
        T              Plg= 6  Azm=310
        P                 28       217
     Comment: The focal mechanism is
       poorly controlled and
       corresponds to strike-slip
       faulting with a moderate
       normal component. The
       preferred fault plane is not
       determined.
     RADIATED ENERGY
       No. of sta:  12  Focal mech.  F
       Energy       9.2±1.9*10**13 Nm
     MOMENT TENSOR SOLUTION
     Dep  21           No. of sta: 14
     Moment Tensor;   Scale 10**18 Nm
       Mrr= 0.09       Mtt=-0.41
       Mff= 0.32       Mrt= 0.07
       Mrf= 0.14       Mtf= 2.32
      Principal axes:
       T  Val=  2.31  Plg= 4  Azm=311
       N        0.08      86       143
       P       -2.40       1        41
     Best Double Couple:Mo=2.4*10**18
      NP1:Strike= 86 Dip=87 Slip=   2
      NP2:       355     88       177
     CENTROID, MOMENT TENSOR    (HRV)
     Data Used: GDSN
     L.P.B.: 21S, 55C
     Centroid Location:
     Origin Time        13:18:58.7 0.3
     Lat  7.42S 0.04 Lon 148.61E 0.03
     Dep  15.0 FIX Half-duration  4.2
     Moment Tensor;   Scale 10**18 Nm
       Mrr=-1.43 0.03  Mtt= 1.38 0.04
       Mff= 0.04 0.04  Mrt= 0.41 0.12
       Mrf= 0.06 0.09  Mtf= 0.41 0.03
      Principal Axes:
       T  Val=  1.56  Plg= 8  Azm=344
       N       -0.07       2        75
       P       -1.48      82       178
     Best Double Couple:Mo=1.5*10**18
      NP1:Strike= 72 Dip=37 Slip= -93
      NP2:       256     53       -88

PMG     2.61 212 iPc   19 34.30   2.6
RAB     4.68  51 iP    20 00.00  -1.1
               iS     20 35.00
MNDI    4.95 282 eP    20 10.00   4.8X
JAY     9.08 300 ePc   21 07.00   4.1X
VSG    11.25 101 eP    21 34.00   1.3
               eS     23 52.00
SVO    11.33 101 eP    21 34.00   0.2
HNR    11.51 102 ePd-  21 35.00  -1.2
               iS     23 52.00
QIS    15.87 212 eP    22 34.00   0.1
               e      33 02.00
MTN    18.04 250 iPd   23 02.60   1.3
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03d 13h

eS 26 20.00
RMQ 19.20 179 iPd 23 17.00 1.5
0.9s 270.00nm 5.5mb
e 33 44.00
QLP 19.73 191 iPd 23 21.70 0.1
e 33 47.00
BRS 20.50 169 iPd 23 34.90 5.2X
iSS 27 26.20
AAI 20.55 279 ePc 23 30.60 0.4
eS 23 38.50
GUA 20.89 350 eP 23 33.30 -0.5
1.5s 1400.00nm 6.1mb
PJG 20.95 350 eP 23 33.80 -0.5
KNA 21.15 245 eP 23 36.50 0.1
0.3s 140.00nm 5.8mb
eS 27 27.00
BKM 21.86 120 iP 23 44.50 0.9
PVC 21.95 120 iPc 23 44.00 -0.4
DZM 22.75 132 iPc 23 52.00 -0.4
COO 23.49 173 iPc 23 59.20 -0.3
0.9s 163.00nm 5.6mb
e 34 26.00
MNI 25.15 289 ePc 24 17.30 1.6
RIV 26.63 175 eP+ 24 30.00 0.8
Z 20s 46.67um 6.0Msz
eS 29 16.00
DAV 26.94 301 eP 24 28.00 -4.2X
eS 29 12.00
CNB 28.01 179 eP 24 41.60 -0.3
eS 30 00.00
e 36 28.00
WARB 28.14 225 eP 24 43.50 0.3
MKS 28.96 272 iPd 24 53.00 2.4
ADE 29.10 197 iPd 24 50.50 -1.2
1.0s 350.00nm 6.1mb
NDF 30.07 113 eP 25 01.00 0.4
FORR 30.35 216 iPc 25 02.20 -0.6
0.3s 111.00nm 6.2mb
BFD 30.35 190 eP 25 06.00 3.2X
0.9s 114.00nm 5.7mb
e 35 31.00
TOO 30.38 185 iPd 25 02.50 -0.6
0.9s 221.00nm 6.0mb
e 35 29.00
SGE 30.46 113 eP 25 12.20 8.1X
MBL 31.03 240 eP 25 07.00 -2.0
MBU 31.03 111 eP 25 06.40 -2.7
VUN 31.07 113 eP 25 08.10 -1.3
SVA 31.10 113 eP 25 08.60 -1.0
BKB2 32.09 279 iPd 25 17.50 -0.8
TSM 32.45 290 ePd 25 25.50 4.0X
PPR 34.14 299 iP 25 36.00 -0.1
MEKA 34.45 232 eP 25 39.00 0.2
QCP 34.81 309 eP 25 48.00 6.1X
KKM 34.82 291 eP 25 43.00 0.8
COOL 34.83 224 iPc 25 42.00 0.0
TRT 35.60 267 iPd 25 42.00 -6.7X
CVP 36.16 313 eP 25 57.00 3.7X
BAG 36.26 310 eP 25 51.80 -2.6
KLB 37.61 226 iPd 26 04.70 -0.7
MRWA 37.67 230 eP 26 06.30 0.3
0.3s 16.00nm 5.3mb
BAL 37.84 228 eP 26 08.00 0.6
NWAO 38.72 224 iPd 26 15.00 0.2
0.7s 83.00nm 5.6mb
Z 20s 8.50um 5.6Msz
N 20s 8.50um
E 20s 9.10um
MUN 38.93 226 iPd 26 17.00 0.5
1.2s 11.00nm 4.4mb X
WLZ 39.15 145 P 26 18.00 -0.2
HBZ 40.57 143 P 26 28.40 -1.6
THZ 40.66 152 P 26 30.10 -0.6
PUZ 40.85 143 P 26 31.00 -1.3
TCW 40.90 150 P 26 31.90 -0.7
KIW 40.96 149 P 26 32.30 -0.8
TTH 41.03 146 P 26 32.00 -1.7
MNG 41.07 148 P 26 32.70 -1.4
0.8s 172.00nm 5.8mb
NOZ 41.09 144 P 26 33.40 -0.8
MRW 41.13 150 P 26 33.20 -1.3
LTZ 41.17 153 P 26 34.20 -0.7
SNZO 41.19 150 P 26 21.00 -13.9X
S 32 42.00
SS 36 08.00
CAW 41.22 149 P 26 34.40 -0.9
WDW 41.30 149 P 26 34.20 -1.7

TATO 41.42 321 eP 26 32.91 -4.1X
ipPc 26 37.21 14kmX
KHZ 41.47 152 P 26 35.80 -1.4
MTW 41.48 149 P 26 35.80 -1.6
PGZ 41.49 148 P 26 36.40 -1.1
MOW 41.55 149 P 26 36.80 -1.2
ANP 41.55 322 eP 26 36.00 -2.3
BLW 41.62 149 P 26 37.10 -1.4
KAGJ 41.72 337 P 26 39.60 0.1
MQZ 42.07 154 P 26 41.20 -1.0
KUMJ 42.95 338 P 26 49.50 0.0
WKYJ 42.96 344 P 26 48.80 -0.9
TKSJ 43.18 342 eP 26 50.30 -1.1
QZH 43.24 319 eP 26 50.50 -1.5
0.7s 110.00nm 5.7mb
Z 20s 14.10um 5.9Msz
E 17s 10.30um
PP 28 35.00
S 33 17.00
IIDJ 43.60 347 P 26 54.40 -0.4
KAKJ 43.86 350 P 26 56.30 -0.5
CHJJ 43.92 349 P 26 56.80 -0.6
TSRJ 44.10 345 P 26 58.90 0.1
SHK 44.11 341 eP 26 58.50 -0.4
SHNJ 44.27 339 P 26 59.10 -1.1
YONJ 44.47 342 P 27 01.30 -0.6
MAJO 44.56 348 ePd 27 01.61 -0.9
ed 27 05.26
eS 33 37.10
isS 33 46.87
MAT 44.56 348 iPd 27 00.70 -1.8
1.1s 386.08nm 6.2mb
Z 20s 8.16um 5.6Msz
eS 33 33.00
HKC 44.63 312 eP 27 04.00 0.7
MTMJ 44.68 348 P 27 02.60 -1.0
NIIJ 45.08 349 P 27 06.50 -0.2
GZH 45.71 312 iPc 27 13.00 1.1
1.6s 310.00nm 6.0mb
Z 20s 11.00um 5.8Msz
N 16s 4.00um
E 16s 7.80um
S 33 55.00
YAMJ 45.81 351 eP 27 12.50 0.1
KGM 46.04 280 ePc 27 17.70 3.0X
QIZ 46.18 305 P 27 15.50 -0.2
N 17s 8.20um
E 17s 7.80um
sP 27 27.00
SSE 46.19 327 Pd 27 15.00 -0.5
1.0s 180.00nm 6.0mb
Z 20s 20.20um 6.1Msz
N 16s 10.50um
E 16s 9.23um
PcS 32 44.00
OFUJ 46.46 353 P 27 17.20 -0.4
KLM 47.90 281 eP 27 31.00 1.6
AOMJ 48.09 352 eP 27 30.60 0.2
NJ2 48.21 326 iPd 27 31.00 -0.4
4.0s 1100.00nm 6.3mb X
N 16s 13.80um
E 15s 5.30um
sP 27 50.00
iPcP 29 00.00
iS 34 29.00
IPM 48.84 282 ePd 27 39.00 2.4
1.0s 314.40nm 6.3mb
HOOJ 49.56 355 eP 27 42.00 0.4
WHN 49.81 321 Pd 27 45.00 1.2
3.0s 1600.00nm 6.5mb
Z 18s 9.00um 5.8Msz
N 17s 10.50um
E 16s 6.10um
PP 27 56.50
S 34 53.00
MRRJ 49.83 353 P 27 43.40 -0.3
SNG 49.88 286 eP 27 46.10 1.5
1.5s 616.67nm 6.4mb
eS 34 51.00
KUSJ 50.16 356 eP 27 45.70 -0.5
PSI 50.48 279 ePd 27 49.00 -0.2
1.3s 375.10nm 6.2mb
ASAJ 51.33 355 eP 27 54.20 -1.0
DL2 52.21 333 eP 28 01.50 -0.4
1.5s 500.00nm 6.2mb
N 15s 7.50um
E 30s 13.80um

S 35 24.00
TIA 52.28 328 eP 28 00.80 -1.7
Z 20s 18.50um 6.1Msz
N 17s 12.10um
E 16s 12.40um
S 35 24.00
ScS 37 52.10
LOE 52.30 298 eP 28 03.50 0.5
GYA 52.60 311 iPd 28 05.00 -0.3
2.0s 600.00nm 6.2mb
Z 30s 5.70um 5.4MszX
N 17s 6.50um
E 17s 6.80um
S 35 28.00
NST 53.04 296 Pd 28 12.50 4.0X
SNY 53.85 337 iPd 28 12.00 -2.0
3.5s 2500.00nm 6.6mb X
Z 17s 22.80um 6.3MszX
N 17s 12.90um
E 17s 12.80um
pP 28 24.00 42kmX
PcP 29 16.00
S 35 46.00
MDJ 54.31 343 Pd 28 15.50 -1.9
BDT 54.64 297 eP 28 21.40 1.2
CN2 54.88 340 P 28 20.00 -1.6
6.0s 1200.00nm 6.1mb X
Z 18s 35.00um 6.5Msz
N 15s 8.50um
E 15s 6.80um
pP 28 27.00 23kmX
PcP 29 22.00
eS 35 58.00
KMI 54.92 307 ePd 28 23.05 0.5
3.5s 800.00nm 6.2mb X
Z 30s 17.30um 5.9MszX
N 14s 1.30um
E 16s 5.00um
epPc 28 27.69 15kmX
eS 36 07.06
e 36 21.13
CHG 55.29 299 iPd 28 25.20 0.2
1.0s 115.00nm 5.9mb
eS 36 12.00
CHTO 55.29 299 ePd 28 25.18 0.2
2.0s 552.33nm 6.2mb
epPc 28 29.98 16kmX
XAN 55.56 320 iPd 28 25.10 -1.6
3.0s 1800.00nm 6.6mb
N 16s 6.30um
E 18s 5.90um
pP 28 39.00 51kmX
sP 28 45.00
PcP 29 28.00
PP 30 30.00
S 36 08.00
BJI 55.67 330 ePd 28 25.95 -1.4
4.0s 1400.00nm 6.3mb X
Z 36s 21.20um 6.0MszX
N 15s 5.00um
E 16s 8.70um
epPc 28 30.75 16kmX
PcP 29 27.00
eS 36 07.00
TIY 55.93 326 Pd 28 29.00 -0.4
Z 20s 13.50um 6.0Msz
N 18s 13.10um
E 17s 8.40um
PcP 29 29.50
S 36 12.50
sS 36 29.00
CD2 57.19 314 iPd 28 37.40 -1.1
Z 16s 23.70um 6.4MszX
E 17s 14.00um
ePP 28 50.50
iS 36 30.00
HHC 58.64 328 iPd 28 48.00 -0.5
4.0s 700.00nm 6.1mb X
Z 24s 22.20um 6.2MszX
N 18s 5.70um
E 18s 12.70um
pP 29 00.00 42kmX
BTO 59.29 327 iPd 28 52.00 -1.1
4.0s 1500.00nm 6.5mb X
N 17s 8.90um
E 17s 7.10um
sP 29 01.00

			ePP	31	04.00				1.9s	******nm		8.1mb X		MSU	101.69	52	Pdiff	32	44.40	0.9
			S	36	54.00			Z	18s	3.81um		5.8Msz		SES	102.14	40	ePdiff	32	44.00	-1.0
			SS	40	45.00		IMA		84.12	20	ePd	31 20.20	-0.7	BW06	103.57	48	ePdiff	32	51.90	0.1
HON	59.60	60	P	29	05.00	9.7X			1.8s	306.80nm		6.2mb			1.6s	0.03nm				2.8mb X
KIP	59.63	60	ePd	28	57.93	2.3					e	32 17.40		TAB	104.00	307	ePdiff	32	52.00	-1.7
			eS	37	09.06		KLU		84.94	26	P	31 27.20	2.2	ALQ	106.37	56	ePdiff	33	05.00	0.6
LZH	60.10	319	ePd	28	58.59	-0.2	TOA		85.09	25	eP	31 27.50	1.7		Z 20s	4.08um				6.0Msz
	4.0s	1120.00nm				6.3mb X	COL		85.67	23	eP	31 28.85	0.3	ANMO	106.37	56	ePdiff	33	03.11	-1.3
	Z 33s	12.80um				5.8MszX					ic	31 32.16			Z 19s	3.75um				6.0Msz
	E 16s	4.79um									eS	41 57.77				eSKS	44	01.95		
			ipPc	29	02.89	14kmX	FBA		85.67	23	eP	31 26.60	-1.9			iPS	47	04.04		
			PcP	29	40.00		BRW		86.14	15	eP	31 30.30	-0.4			ePPS	47	53.71		
			eS	37	11.86		QUE		86.36	301	iPd-	31 34.30	1.4	GOL	106.93	51	Pdiff	33	07.90	1.1
			esS	37	21.79		SIT		88.51	32	e(P)	31 43.20	0.8		2.0s	50.85nm				6.2mb
AFR	60.90	106	iP	29	05.10	0.8	INK		92.19	21	eP	31 57.50	-1.8	GLD	107.04	51	Pdiff	33	09.30	2.1X
	1.1s	110.00nm				5.9mb			1.1s	69.00nm		6.0mb			Z 20s	2.00um				5.7Msz
PAE	61.10	106	iP	29	06.30	0.7	FHC		92.73	49	eP	32 03.00	0.5	FFC	107.04	35	ePKP	37	18.00	1.7
	1.1s	130.00nm				6.0mb	MAIO		93.43	306	iPd	32 06.00	0.1		1.0s	11.00nm				
PPT	61.10	106	iP	29	06.40	0.7					e	42 42.00		NAI	111.39	266	ePKP	37	45.00	19.0X
	1.1s	85.00nm				5.8mb	COR		93.67	46	eP	32 07.25	0.6	SLR	113.41	238	ePKP	37	26.50	-2.9X
PPN	61.23	106	iP	29	07.40	0.8					ec	32 13.54			Z 22s	23.80um				6.7Msz
	1.1s	85.00nm				5.8mb					eSKS	42 59.51		HVD	113.80	232	ePKP	37	44.00	13.9X
TVO	61.41	106	iP	29	08.80	0.9					eS	43 21.25		BLF	113.86	234	ePKP	37	38.00	7.7X
	1.1s	150.00nm				6.1mb	BRK		93.72	52	eP	32 08.00	1.0	IKZ	113.88	256	ePKP	37	25.00	-5.7X
TBI	61.51	113	iP	29	08.30	-0.1	BKS		93.74	52	ePc	32 08.50	1.4				i	38	02.10	
	1.0s	115.00nm				6.0mb			2.0s	429.00nm		6.5mb					i	38	39.20	
HIA	61.59	339	ePd	29	07.65	-0.9		Z	20s	11.00um		6.3Msz		PTZ	114.17	251	iPKPc	37	30.20	-0.9
			epPc	29	11.63	13kmX		N	20s	9.00um							e	38	15.00	
			eS	37	27.99			E	20s	8.00um				TUL	114.92	54	ePKP	37	31.30	-0.6
			esS	37	37.38						eS	43 08.00			1.6s	31.60nm				
PMO	62.69	103	iP	29	17.30	1.0					eLQ	57 32.00			Z 19s	2.77um				5.9Msz
	1.1s	105.00nm				5.9mb					eLR	01 26.80				LR	13	42.60		
VAH	62.94	103	iP	29	18.80	0.8	WDC		93.80	50	eP	32 07.40	0.1	KRI	115.08	248	iPKPc	37	29.90	-3.0X
	1.1s	55.00nm				5.6mb	GCC		93.84	53	eP	32 08.60	1.0	UYO	116.29	55	e(PKP)	37	35.10	0.6
TPT	62.96	103	iP	29	19.00	0.9	LTCM		94.07	50	P	32 09.70	1.1	LSZ	116.83	249	iPKPc	37	36.00	-0.2
	1.1s	85.00nm				5.8mb	MHC		94.16	53	eP	32 09.50	0.3				i	37	52.30	
RUV	63.18	103	iP	29	20.40	0.8	ARN		94.24	53	P	32 10.40	0.9				i	38	23.40	
	1.1s	55.00nm				5.6mb	SAO		94.25	54	eP	32 10.70	1.2	VRI	117.02	318	ePKPc	37	26.00	-9.6X
GTA	64.62	320	iPd	29	28.50	-0.4	PRS		94.27	54	eP	32 10.70	1.1				ed	49	02.00	
	4.0s	1340.00nm				6.5mb X	GMW		94.34	43	P	32 10.80	1.1	FRB	117.60	18	ePKP	37	35.00	-1.0
	Z 20s	7.20um				5.9Msz	MIN		94.48	50	eP	32 10.30	-0.4	MLR	117.66	318	ePKPc	37	40.00	3.0X
	N 15s	3.50um					ORV		94.49	51	ePc	32 10.60	0.1	NAO	117.90	338	PKP	37	35.50	-1.2
			S	38	07.60		LLA		94.64	54	eP	32 12.50	1.2		1.3s	19.80nm				
			SS	42	20.00		PRI		94.82	54	eP	32 14.00	1.7	CMP	118.34	318	ePKPc	37	24.00	-14.1X
ADK	65.94	23	eP	29	34.60	-2.3	BLP		94.89	56	P	32 13.90	1.4	PVL	118.81	316	ePKP	37	38.00	-1.0
	1.9s	706.40nm				6.5mb	LON		94.93	44	P	32 13.30	0.8	LWI	119.15	263	iPKPd	37	41.50	0.7
LSA	66.17	307	iP	29	41.00	1.6	PHAM		95.01	55	P	32 14.00	1.0	KMZ	119.53	250	iPKPd	37	42.00	0.6
	N 12s	1.00um					BCH		95.21	55	ePd	32 14.80	0.7				i	37	57.70	
			pP	29	51.00	32kmX	CMB		95.21	52	ePc	32 10.27	-3.7X	KRA	119.60	325	ePKPc	37	40.10	-0.2
			S	38	28.00				2.0s	0.18nm		3.2mb X			1.2s	50.00nm				
			sS	38	38.00						ec	32 19.38		RZN	119.73	314	iPKPc	37	41.50	0.4
GUN	69.79	303	P	30	02.68	0.7	SYP		95.23	56	eP	32 16.00	1.7	SPC	119.81	324	ePKP	37	40.60	-0.4
PKI	70.07	303	P	30	04.12	0.5	FRI		95.66	54	eP	32 16.50	0.5				e	47	44.60	
	1.6s	1389.00nm				6.8mb	ABL		95.88	56	P	32 18.40	1.0	PSZ	120.58	322	e(PKP)	37	42.00	-0.3
KKN	70.25	303	Pc	30	05.18	0.6	PNT		96.59	41	eP	32 20.00	0.0	KSP	121.26	327	ePKP	37	43.30	-0.2
	1.5s	1456.00nm				6.9mb	PAS		96.69	56	iPd	32 22.08	1.3	VAY	121.38	314	ePKP	37	42.60	-1.4
DMN	70.33	303	Pc	30	06.04	0.9					ipPc	32 27.70	18kmX	BEO	121.52	319	ePKP	37	43.50	-0.6
	1.4s	1632.00nm				7.0mb					ec	32 33.50		SRO	121.58	323	ePKP	37	3B.30	-5.8X
GKN	70.85	303	Pc	30	08.78	0.5					ePP	36 13.00		SKO	121.94	316	iPKP	37	44.00	-1.0
	1.4s	2129.00nm				7.1mb X					ePPP	38 00.00			1.4s	800.00nm				
KOD	72.85	2B3	eP	30	21.00	0.5					eSKS	42 48.00		ZST	122.12	324	ePKP	37	44.60	-0.5
HYB	73.30	291	iPd	30	22.50	-0.3					eS	43 18.00					e	39	18.40	
	1.6s	750.00nm				6.5mb					ePPS	45 16.00					e	48	09.50	
WMQ	74.68	319	ePd	30	30.59	0.2					eSS	48 49.00		BRG	122.51	328	iPKP	37	45.80	0.0
	3.0s	1700.00nm				6.6mb					eSSS	53 40.00			1.4s	60.00nm				
	Z 20s	7.30um				6.0Msz					eLR	02 48.00				i	37	52.60		
			ipPc	30	35.23	15kmX	MWC		96.79	56	eP	32 23.00	1.6	VKA	122.54	324	ePKP	37	46.00	0.0
			PP	33	17.50		SBB		97.02	56	eP	32 23.00	0.7				i	38	08.40	
			eS	40	04.11		CLC		97.28	55	eP	32 24.00	0.6	PRU	122.66	327	PKPc	37	46.00	-0.1
			sS	40	24.00		RVR		97.34	57	eP	32 24.00	0.3				e	38	22.90	
SDN	75.22	27	e(P)	30	32.90	-0.2	MBC		97.43	14	eP	32 29.50	6.3X				e	39	18.50	
NDI	77.30	301	iPd	30	44.30	-1.1			1.0s	9.00nm		5.3mb		OHR	122.70	315	ePKP	37	42.80	-3.8X
	0.7s	89.04nm				5.9mb	PEC		97.51	57	P	32 25.40	0.9		1.5s	107.00nm				
POO	77.91	291	iPd	30	48.30	-0.6			2.0s	161.11nm		6.3mb		CLL	122.76	328	iPKP	37	45.40	-0.9
ANM	79.33	18	eP	30	55.50	-0.3	TNP		97.71	53	iPc	32 25.80	0.3		1.7s	61.00nm				
SVW	80.67	24	ePd	31	04.90	1.8			1.8s	86.84nm		6.1mb			Z 18s	B.00um				6.4Msz
KSH	81.28	312	Pd	31	08.00	1.2	PLM		97.73	57	eP	32 27.00	1.3	KHC	123.65	326	PKP	37	48.40	0.2
	4.0s	3000.00nm				6.7mb X	GSC		97.89	55	ePd	32 28.05	1.8		1.4s	36.50nm				
	E 15s	8.60um									epPc	32 33.85	18kmX		Z 16s	4.50um				6.2MszX
			pP	31	14.50	21kmX	NEW		98.19	42	iPd	32 27.40	0.2		N 16s	2.20um				
TTA	81.54	22	eP	31	08.70	1.1			1.5s	107.87nm		6.2mb			E 16s	1.60um				
	1.6s	176.23nm				5.9mb	SHI		98.72	299	eP	32 28.00	-2.2				e	37	55.00	
MAW	81.76	203	iPc	31	09.20	0.6	GLA		99.42	58	eP	32 35.00	1.9	MOX	123.86	328	iPKPc	37	49.00	0.5
	1.0s	91.00nm				5.8mb	YKA		99.49	28	eP	32 33.10	0.4		1.6s	62.00nm				
SPA	82.87	180	iPd	31	15.10	0.5			1.4s	18.90nm		5.5mb			Z 17s	7.60um				6.4MszX
	1.4s	110.78nm				5.8mb	EDM		100.57	37	ePdiff	32 38.50	0.6		N 18s	5.90um				
PMR	83.61	25	eP	31	18.60	0.4	LRM		101.38	45	ePdiff	32 41.80	-0.2		E 17s	3.00um				

03d 13h

PTJ	123.90	322	e(PKP)	37	48.80	0.0				i	40	08.00			WEGH	149.02	269	ePKP	38	37.00	1.6
WET	124.03	326	iPKPc	37	49.20	0.3	SSF	130.28	329	ePKP	38	01.10	0.2		KUK	149.11	270	ePKP	38	36.00	0.5
VBY	124.52	322	ePKPc	37	50.20	0.3		1.6s		118.15nm					PAG	149.16	71	ePKP	38	39.50	4.0X
GRB1	124.56	327	iPKPc	37	50.30	0.4	SMF	130.38	328	ePKP	38	01.20	0.1		SEG	149.23	70	ePKP	38	38.00	2.5X
	Z 18s		7.30um			6.4Msz		1.8s		181.25nm					BBL	149.46	72	ePKP	38	40.00	4.0X
			e	37	57.00		AVF	130.54	329	ePKP	38	01.30	-0.1		DEG	149.67	70	ePKP	38	39.50	3.2X
LJU	124.70	322	ePKP	37	49.50	-0.7		1.8s		94.95nm					TBH	150.57	81	ePKP	38	45.00	7.3X
SCH	124.74	24	ePKP	37	50.00	0.0	FRF	130.76	324	ePKP	38	01.90	0.0		BAO	152.04	144	ePKPd	38	42.00	2.0
BHG	124.80	325	iPKPc	37	50.00	-0.4		1.6s		99.50nm					BDF	152.06	144	ePKPd	38	41.66	1.6
	1.5s		90.00nm				8GF	130.95	329	ePKP	38	02.50	0.3					ed	38	47.28	
KBA	124.88	324	iPKPc	37	49.80	-1.0		1.4s		102.40nm								e	42	22.19	
			i	38	10.40		LDF	130.96	333	ePKP	38	01.80	-0.3		KIC	153.46	270	PKP	38	41.50	-0.4
			i	39	41.50		LMR	130.97	324	ePKP	38	02.20	-0.1		LIC	153.73	270	PKP	38	41.94	-0.3
CEY	124.91	322	ePKP	37	50.00	-0.7		1.4s		78.40nm						Z 20s		3.50um			6.2Msz
VOY	125.09	323	ePKP	37	50.50	-0.6	LRG	130.99	324	ePKP	38	02.70	0.4		TIC	153.75	270	PKP	38	41.84	-0.5
PEL	125.26	139	ePKP	37	52.00	0.2	NNA	131.02	113	ePKP	38	03.00	-0.3		SOB1	161.20	150	ePKP	38	53.80	2.5X
	1.5s		194.44nm					1.5s		69.44nm								e	39	36.60	
BRT	125.30	316	PKP	37	53.00	1.4		Z 18s		1.37um			5.7Msz			S.D. = 1.0		on 319 of 378 obs.			
TRI	125.33	322	ePKP	37	50.30	-1.1				e	41	40.00			----------						
WTS	125.40	332	ePKP	37	52.00	0.7	MAF	131.32	329	ePKP	38	03.50	0.6			JAN 03, 1991 13h 29m 19.29± 0.20s					
FVI	125.46	324	PKPd	37	53.70	2.1X	GRR	131.44	333	ePKP	38	03.20	0.2			7.171 S ± 5.2km 148.441 E ± 3.9km					
SQTA	126.03	325	iPKPd	37	51.80	-1.2	TCF	131.46	329	ePKP	38	03.50	0.3			DEPTH = 38.8km (4 depth phases)					
	1.7s		122.00nm					1.8s		172.65nm						5.7mb (26 obs.)					
			e	37	59.20		LPF	131.79	333	ePKP	38	03.80	0.1			EAST PAPUA NEW GUINEA REGION					(207)
			i	38	14.60			1.7s		176.45nm											
			i	38	40.50		UPA	132.39	84	ePKPd	37	55.00	-10.9X		PMG	2.56	210	e(P)	30	00.00	0.6
			e	41	23.00					i	38	05.00			YYYY	2.63	290	eP	29	39.00	-21.4X
OGA	126.33	325	ePKP	37	53.00	-0.7	MFF	132.41	331	ePKP	38	05.00	0.0		RAB	4.75	52	iPc	30	28.00	-2.4
ABH	126.40	330	ePKP	37	53.02	-0.5	CAF	132.46	328	ePKP	38	05.60	0.4					iS	31	14.00	
TDS	126.40	315	PKPd	37	56.30	2.5X		2.0s		151.60nm					JAY	8.99	301	ePc	31	48.00	18.3X
CTI	126.41	324	PKPd	37	54.50	0.7	CUMC	133.32	95	ePKP	38	08.27	-0.1		VSG	11.35	101	P	32	03.00	1.0
ENN	126.63	331	ePKP	37	54.00	0.2	HOQC	134.89	92	ePKP	38	09.46	-1.6		SVO	11.43	101	eP	32	06.00	2.9
	1.0s		32.00nm				HOBC	135.48	91	ePKP	38	10.45	-1.5		MTN	17.95	250	eP	33	27.50	-0.3
DUI	126.83	318	PKP	37	55.50	0.9	CNCB	136.73	124	PKP	38	03.00	-11.7X		AAI	20.45	279	eP	33	58.00	1.7
OSS	126.93	325	ePKPc	37	54.80	0.0				PKS	41	54.00						eS	34	25.00	
GWF	126.93	329	PKP	37	53.55	-1.0				SKS	48	40.00			BRS	20.53	169	iPd	33	56.20	-0.9
ARV	126.94	320	PKP	37	57.00	2.3X	LPB	136.77	123	PKP	38	02.00	-12.6X					i	35	52.50	
EKA	126.95	340	PKP	37	57.00	2.7X		Z 17s		4.08um			6.2MszX		GUA	20.87	350	eP	34	00.20	-0.4
RSM	127.04	321	PKP	37	57.60	2.8X				PKS	41	51.00			KNA	21.07	244	eP	34	02.30	-0.3
SAX	127.05	326	ePKPc	37	54.90	-0.3				SKS	48	54.00			PVC	22.04	120	iPc	34	10.00	-2.4
SLE	127.21	327	ePKPc	37	54.80	-0.3				LR	23	36.00			DZM	22.82	132	iPc	34	29.10	8.9X
RSNY	127.24	38	PKP	37	54.80	-0.4	ZOBO	136.88	123	PKP	38	03.20	-11.8X		MNI	25.06	289	eP	34	43.00	1.2
	1.2s		46.16nm					1.0s		30.50nm					WARB	28.08	225	eP	35	10.00	0.5
SDI	127.24	318	PKP	37	56.50	1.1		Z 18s		2.09um			5.9Msz		MKS	28.86	272	e(P)	35	30.00	13.3X
ASS	127.33	320	PKP	37	56.90	1.4				i	38	15.00			FORR	30.29	216	eP	35	27.00	-2.2
AZI	127.36	319	PKP	37	56.00	0.5				PKS	41	12.00				0.4s		58.00nm			5.7mb
FEL	127.41	327	PKP	37	54.51	-1.1				SKS	48	40.00			TSM	32.35	290	ePc	35	51.00	3.5X
SFI	127.41	321	PKPd	37	58.80	3.3X				LR	23	00.00			PPR	34.05	299	ePd	36	03.00	0.8
VDL	127.43	325	ePKPc	37	55.80	0.0	ZOBO	136.88	123	ePKPd	38	15.01	0.0		COOL	34.77	224	eP	36	07.00	-1.3
ZLA	127.44	327	ePKP+	37	55.20	-0.4		1.0s		30.50nm					MRWA	37.60	230	eP	36	31.00	-1.3
CDF	127.46	328	PKP	37	54.57	-1.1		Z 18s		2.09um			5.9Msz		QZH	43.17	319	eP	37	17.30	-0.9
LLS	127.47	326	ePKPc	37	56.40	0.5				PKS	41	12.00			IIDJ	43.57	348	P	37	33.70	12.4X
CRE	127.50	321	PKP	37	56.50	0.6				i	42	01.52			TSRJ	44.07	345	eP	37	24.80	-0.5
ECH	127.65	328	PKP	37	54.93	-1.0				SKS	48	40.00			MAT	44.53	348	iPc	37	27.70	-1.4
MNS	127.66	319	PKPd	37	57.20	1.1				LR	23	00.00				1.3s		134.62nm			5.6mb
MDI	127.69	324	PKP	37	57.00	1.0	CCH	137.93	126	PKP	38	04.80	-11.9X		YAMJ	45.78	351	eP	37	38.50	-0.5
FIR	127.85	322	ePKP	37	57.00	0.6	TOL	139.21	327	ePKP	38	12.00	-6.0X		KGM	45.94	280	ePd	37	43.20	2.5
MOF	127.89	328	PKP	37	55.37	-1.1				e(PP)	41	18.00			OFUJ	46.44	353	eP	37	43.40	-0.8
BBS	127.93	327	PKP	37	55.52	-1.0				ePS	51	38.00			NJ2	48.14	326	Pc	37	57.80	0.1
TMA	127.98	325	ePKPc	37	56.50	-0.3				eSS	59	40.00				1.0s		30.00nm			5.3mb
BSF	128.08	328	PKP	37	55.83	-1.0	SDV	141.19	85	ePKP	38	15.80	-6.7X		IPM	48.74	282	ePc	38	05.10	2.5
BDI	128.11	322	PKP	37	57.50	0.5	TOV	142.01	83	ePKP	38	19.40	-4.4X			1.0s		54.70nm			5.5mb
VAI	128.18	325	PKP	37	58.60	1.7	ALJ	142.35	325	iPKP	38	19.00	-4.9X		WHN	49.74	321	ePc	38	11.50	1.5
HAU	128.20	328	ePKP	37	56.80	-0.2	GIBL	142.44	325	iPKP	38	20.00	-3.9X					pP	38	23.20	42km
	1.6s		143.05nm				OJEN	142.71	324	iPKP	38	19.00	-5.4X		PSI	50.38	279	e(P)	38	15.00	-0.2
HBVT	128.22	37	PKP	37	57.30	0.2	SIV	142.72	128	iPKPd	38	20.50	-4.4X		GYA	52.53	311	P	38	31.60	0.2
VITF	128.26	329	PKP	37	56.46	-0.5	IFR	144.21	321	iPKPc	38	26.50	-0.7		NST	52.95	296	eP	38	38.50	4.0X
LOMF	128.36	327	PKP	37	56.72	-0.7	LLAV	144.93	82	iPKP	38	26.70	-2.1X		SNY	53.81	337	eP	38	36.80	-3.6X
MMK	128.53	326	ePKPc	37	58.30	0.4	OLLA	144.95	83	iPKP	38	27.50	-1.4			1.6s		100.00nm			5.6mb
ORO	128.77	325	PKP	37	59.40	1.2	PPD	145.05	147	ePKP	38	27.30	-1.4		MDJ	54.28	343	eP	38	42.50	-1.3
DIX	128.82	326	ePKPc	37	58.60	0.1				e	38	32.40			BDT	54.54	297	eP	38	46.00	-0.2
EMS	129.09	326	ePKPc	37	59.20	0.3				e	38	39.20			CN2	54.84	340	Pc	38	46.00	-2.0
LPG	129.54	326	ePKP	38	00.00	0.0				i	38	43.40				Z 16s		14.60um			6.1MszX
	1.7s		66.15nm							i	39	03.00				N 15s		4.20um			
PGF	129.91	321	ePKP	38	00.10	-0.4	AVE	145.77	323	iPKPd	38	30.00	0.4			E 15s		1.80um			
	1.6s		136.80nm							i	38	47.00						epP	38	56.00	33km
LOR	129.96	329	ePKP	38	00.10	-0.2	GUAN	146.09	83	iPKP	38	31.40	0.6					PcP	39	48.00	
	1.6s		118.15nm				TIO	147.27	319	iPKP	38	33.00	0.7					eS	46	24.00	
	Z 20s		12.00um			6.6Msz				i	39	05.00			KMI	54.84	307	Pc	38	50.00	1.4
LBF	130.09	329	ePKP	38	00.60	0.0	BMA	147.81	158	ePKP	38	35.20	1.9X			E 15s		4.30um			
	1.8s		120.85nm							e	38	48.40			BJI	55.62	330	eP	38	52.00	-1.6
SBF	130.12	324	ePKP	38	00.20	-0.6	NEV	148.07	69	ePKP	38	37.66	3.9X			1.6s		60.00nm			5.4mb
	1.5s		167.15nm				TEGH	148.70	269	ePKP	38	38.00	3.1X			N 16s		10.10um			
HRV	130.15	39	ePdiff	34	55.99	6.2X	BPA	148.75	69	ePKP	38	38.69	3.8X		HHC	58.58	328	Pc	39	14.80	0.0
			eSKS	45	04.06		SHGH	148.77	270	ePKP	38	36.00	1.0		BTO	59.23	327	P	39	18.00	-1.3
BCAO	130.20	270	iPKPd	38	02.10	0.3	LEGH	148.88	269	ePKP	38	37.00	1.9		LZH	60.03	319	iPc	39	24.50	-0.4
	0.8s		46.00nm				KOGH	148.98	270	ePKP	38	37.00	1.6			1.5s		170.00nm			6.0mb

			pP	39	36.00	39km			0.7s	2.73nm		5.2mb		KKN	66.83	314	P	15	52.28	0.3
			PcP	40	09.00			KEV	107.24	342	ePdiff	43	50.00	16.4X		DMN	66.83	314	P	15	52.50	0.4
AFR	61.00	106	eP	39	31.00	-0.6		SRO	121.51	323	ePKP	48	09.50	-0.8		GTA	67.21	332	P	15	53.80	-0.3
	1.2s	80.00nm			5.7mb			BRG	122.45	328	ePKP	48	12.00	0.0			1.0s	10.00nm			5.0mb	
PAE	61.19	106	eP	39	32.00	-0.9			1.4s	26.00nm						GKN	67.40	314	P	15	55.78	0.2
	1.2s	55.00nm			5.6mb			VBY	124.45	322	ePKP	48	16.70	0.6		WMQ	76.36	328	iPd	16	49.00	0.4
PPN	61.33	106	eP	39	33.00	-0.9		LJU	124.63	322	ePKP	48	16.50	0.1		YKA	117.72	29	ePKP	23	43.70	-1.3
	1.2s	35.00nm			5.4mb			CEY	124.85	322	ePKP	48	16.00	-0.9			0.6s	0.60nm				
TVO	61.51	106	eP	39	35.00	-0.2		VOY	125.02	323	e(PKP)	48	06.50	-10.8X			S.D. = 0.9	on	23 of	32	obs.	
	1.2s	80.00nm			5.7mb						e	48	16.70									
PMO	62.78	103	iP	39	43.60	0.0		TRI	125.26	322	ePKP	48	16.80	-0.8								
	1.2s	80.00nm			5.7mb			SQTA	125.96	325	iPKPd	48	18.90	-0.3			JAN 03, 1991 14h 20m 56.46± 0.56s					
RUV	63.28	103	iP	39	46.40	-0.5			1.5s	32.50nm							21.175 S ± 3.8km 177.209 W ± 4.6km					
	1.2s	45.00nm			5.5mb						i	48	42.60				DEPTH = 294.8 ± 6.0 km					
GTA	64.55	320	iPc	39	54.80	-0.2		BSF	128.02	328	ePKP	48	23.00	-0.1			5.0mb (25 obs.)					
	3.5s	340.00nm			5.8mb	X			1.5s	41.80nm							FIJI ISLANDS REGION					(181)
	N 15s	5.48um						HAU	128.14	328	ePKP	48	23.30	0.1								
	E 16s	5.83um							1.5s	41.80nm						KRO	5.01	320	iP	22	14.00	-0.4
			pP	40	07.00	42km		BCAO	130.11	270	iPKPd	48	20.00	-7.9X		SVA	5.09	306	eP	22	16.20	0.8
			sP	40	12.60				1.0s	25.00nm									eS	23	19.20	
			PcP	40	28.60						i	50	45.00			OVA	5.13	312	eP	22	16.10	0.2
GUN	69.70	303	P	40	28.36	0.3		IFR	144.14	321	iPKPc	48	52.00	-1.4		VUN	5.15	307	iP	22	16.20	0.1
	1.4s	321.00nm			6.2mb			PPD	145.11	147	ePKP	48	53.50	-1.7		NDE	5.62	324	eP	22	21.40	-0.4
PKI	69.98	303	P	40	29.62	-0.1		AVE	145.70	323	iPKPc	48	56.50	0.7		MBU	5.68	317	eP	22	22.20	-0.3
	1.7s	465.00nm			6.2mb						i	49	19.00			DZM	15.23	264	iPc	24	21.80	2.6
KKN	70.16	303	P	40	30.80	0.1		TIO	147.20	319	iPKP	49	01.40	2.9X					iS	27	10.90	
	1.4s	295.00nm			6.1mb						i	49	23.00			PUZ	17.29	192	eP	24	38.70	-2.3
DMN	70.24	303	P	40	31.64	0.4		BMA	147.86	158	ePKP	49	02.50	2.8X					S	27	40.30	
	1.4s	433.00nm			6.3mb			TEGH	148.61	269	ePKP	49	06.00	5.0X		WLZ	17.74	199	eP	24	47.90	2.3
GKN	70.77	303	P	40	34.16	-0.1		LEGH	148.79	269	ePKP	49	06.00	4.7X		NOZ	17.86	192	eP	24	45.90	-0.9
	1.4s	442.00nm			6.3mb			KOGH	148.88	270	ePKP	49	07.00	5.5X		WHH	18.46	196	eP	24	53.60	0.6
KOD	72.75	283	eP	40	47.00	0.5		WEGH	148.93	269	ePKP	49	06.50	4.9X		PGZ	20.16	195	eP	25	11.40	1.6
HYB	73.21	291	eP	40	48.50	-0.3		KUK	149.01	270	ePKP	49	06.00	4.3X		MNG	20.36	196	eP	25	09.80	-2.0
GBA	73.44	286	P	40	50.00	0.0		TRN	150.32	81	ePKP	49	08.00	4.4X			0.1s	8.00nm			5.0mb	
WMO	74.61	319	iPc	40	56.30	-0.2		KIC	153.36	270	PKP	49	15.86	7.8X					eS	28	42.10	
	Z 16s	5.10um			5.9MszX			LIC	153.63	270	PKP	49	16.42	8.0X		KIW	20.74	197	eP	25	14.00	-1.5
			sP	41	16.50			TIC	153.65	270	PKP	49	16.50	8.0X		MTW	20.86	196	eP	25	17.00	0.4
			PP	43	48.90				S.D. = 1.1	on	102 of	124	obs.						eS	28	54.40	
			S	50	29.00											CAW	20.92	197	eP	25	17.50	0.2
NDI	77.21	301	ePc	41	11.00	-0.4										WDW	21.09	197	eP	25	19.80	0.9
ANM	79.35	18	eP	41	22.00	-0.4			JAN 03, 1991 14h 04m 57.42± 0.37s							MRW	21.14	197	eP	25	19.40	0.1
SVW	80.70	24	eP	41	31.80	2.0			20.185 S ± 5.5km 133.674 E ± 5.6km										eS	28	55.70	
TTA	81.57	22	e(P)	41	34.00	-0.3			DEPTH = 10.0km (geophysicist)							TCW	21.24	198	eP	25	19.70	-0.6
PMR	83.64	25	e(P)	41	43.60	-1.3			4.8mb (3 obs.)							THZ	22.16	200	eP	25	29.90	0.6
	1.3s	1058.49nm			6.8mb	X			NORTHERN TERRITORY, AUSTRALIA (591)							KHZ	22.56	198	eP	25	33.30	0.3
IMA	84.15	20	eP	41	47.20	-0.4		QIS	5.58	95	iPc	06	17.60	-4.9X			0.2s	19.00nm			5.1mb	
	1.8s	67.50nm			5.5mb			KNA	6.42	313	eP	06	31.70	-2.7X		LTZ	23.28	200	P	25	39.10	-0.8
KLU	84.98	26	P	41	51.00	-0.7			0.3s	27.00nm			5.7mb	X		MQZ	24.00	198	eP	25	46.60	0.1
TOA	85.13	25	P	41	53.20	0.8					eS	07	45.00			HNR	24.89	295	iPc	25	55.00	0.1
FBA	85.70	23	eP	41	53.40	-1.8		MTN	7.69	341	eP	06	47.00	-5.2X			0.8s	179.10nm			5.6mb	
	1.3s	56.60nm			5.6mb			WARB	8.80	226	eP	07	11.10	3.4X		VSG	25.18	295	eP	25	58.00	0.5
BRW	86.16	15	eP	41	57.30	0.0					iS	08	52.00			AFR	26.12	87	iP	26	05.70	-0.2
QUE	86.27	301	iPc	41	59.90	0.9		QLP	11.60	125	eP	07	41.50	-4.6X			1.0s	60.00nm			5.0mb	
			eS	52	36.30						eS	09	43.00			PAE	26.28	87	iP	26	07.00	-0.3
INK	92.22	21	eP	42	25.00	-0.9		FORR	11.75	204	eP	07	49.10	1.1			1.0s	60.00nm			5.0mb	
	1.3s	55.00nm			5.8mb				0.3s	75.00nm			6.5mb	X		MHZ	26.30	202	eP	26	05.80	-1.7
MAIO	93.35	306	eP	42	32.00	0.1					eS	09	55.00			PPT	26.30	87	iP	26	07.40	-0.2
BKS	93.82	52	ePc	42	34.70	0.8		MBL	12.99	263	eP	08	05.00	0.2			1.0s	105.00nm			5.2mb	
	1.1s	51.00nm			5.9mb						eS	11	23.00			MMCZ	26.30	202	eP	26	05.50	-2.0
WDC	93.87	50	eP	42	35.00	0.9		RMQ	15.20	117	eP	08	30.00	-3.9X		PPN	26.44	87	iP	26	08.90	0.1
GCC	93.92	53	eP	42	35.60	1.2					eS	11	05.00				1.0s	35.00nm			4.8mb	
MHC	94.23	53	eP	42	36.20	0.2		MEKA	15.30	242	eP	08	34.00	-1.1		TVO	26.56	88	iP	26	10.60	0.6
PRS	94.35	54	eP	42	37.70	1.3		COOL	15.52	224	eP	08	37.00	-1.0			1.0s	45.00nm			4.9mb	
MIN	94.55	50	eP	42	37.70	0.2		CMS	15.68	138	eP	08	34.00	-6.1X		VAH	28.68	83	iP	26	27.90	-0.9
ORV	94.56	51	eP	42	37.00	-0.3					eS	11	21.00				1.0s	15.00nm			4.5mb	
PRI	94.90	54	eP	42	40.70	1.6		MRWA	18.39	237	eP	09	13.40	-0.9		TPT	28.76	83	iP	26	28.90	-0.6
BCH	95.28	55	P	42	42.30	1.4		BFD	18.61	157	eP	09	18.00	1.1			1.0s	30.00nm			4.8mb	
CMB	95.29	52	eP	42	41.50	0.7					e	12	39.00			RUV	28.93	83	iP	26	30.20	-0.7
SYP	95.31	56	eP	42	42.00	0.9		BRS	18.88	116	iPn	09	20.00	-0.3			1.0s	45.00nm			5.0mb	
FRI	95.74	54	eP	42	43.70	0.9					i	12	42.20			COO	29.26	245	eP	26	35.00	1.1
PNT	96.65	41	ePc	42	46.00	-0.7		NWAO	19.39	226	eP	09	28.00	1.5		CNB	32.47	237	e(P)	27	04.00	2.2
PAS	96.77	56	eP	42	49.00	1.5		COO	19.42	126	iPc	09	26.00	-0.9		CMS	34.54	245	eP	27	19.00	-0.3
MWC	96.87	56	eP	42	49.00	0.8					eS	12	57.00			TOO	36.11	235	iPd	27	33.50	1.1
SBB	97.09	56	eP	42	50.00	0.9		MUN	19.57	230	eP	09	28.00	-0.5		PMG	36.22	283	eP	27	32.50	-1.0
CLC	97.35	55	eP	42	51.00	0.8			0.3s	138.00nm			5.7mb	X		FORR	49.67	247	eP	29	20.00	-0.9
RVR	97.42	57	eP	42	51.00	0.5					eS	13	02.00			GUA	50.73	310	eP	29	27.80	-1.3
TNP	97.78	53	P	42	53.00	0.7		TOO	20.15	152	eP	09	34.00	-0.6			0.7s	312.33nm			5.8mb	
	1.1s	10.06nm			5.3mb			CNB	20.45	141	eP	09	38.70	0.8		PJG	50.80	310	eP	29	28.80	-0.8
PLM	97.81	57	eP	42	54.00	1.5		CHTO	51.59	316	eP	14	06.10	-0.1		WARB	51.34	253	eP	29	33.00	-0.5
GSC	97.97	55	eP	42	53.00	0.0			1.2s	10.42nm			4.6mb			MAT	71.19	323	iPc	31	43.40	-2.0
NEW	98.25	42	P	42	52.70	-1.3		SSE	52.38	346	eP	14	06.80	-5.1X			0.6s	16.67nm			4.9mb	
	1.1s	27.78nm			5.7mb			CD2	58.37	330	eP	14	54.60	-0.8		ADK	72.74	0	eP	31	50.70	-3.3X
GLA	99.50	58	eP	43	01.00	1.0		LSA	64.33	319	P	15	37.60	1.4			0.7s	44.20nm			5.3mb	
YKA	99.53	28	eP	42	59.50	0.1		GBA	64.70	297	P	15	41.00	2.8X		SYP	77.62	45	eP	32	23.00	0.9
	1.4s	6.60nm			5.0mb				1.0s	8.00nm			4.9mb			PRS	77.80	43	eP	32	24.00	1.1
SES	102.19	40	ePdiff	43	12.00	0.3		GUN	66.50	314	P	15	50.42	0.3		GCC	77.83	42	eP	32	23.80	0.8
BW06	103.64	48	Pdiff	43	17.50	-1.1		PKI	66.60	314	P	15	50.88	0.2		PCC	77.88	42	eP	32	23.90	0.6
																BCH	77.94	45	P	32	24.40	0.6

03d 14h

SAO	78.02	43	eP	32	24.70	0.6
PRI	78.13	44	eP	32	26.00	1.1
BRK	78.19	41	eP	32	25.30	0.3
BKS	78.21	41	eP	32	25.90	0.8
	0.8s	34.00nm			5.1mb	
LLA	78.24	43	eP	32	26.90	1.6
MHC	78.25	42	eP	32	26.30	0.8
MWC	78.73	47	eP	32	28.00	-0.2
PLM	79.05	48	eP	32	30.00	0.0
RVR	79.06	47	eP	32	30.00	0.3
PEC	79.15	47	P	32	30.00	-0.3
SBB	79.15	46	eP	32	30.00	-0.3
FRI	79.26	43	eP	32	30.80	0.1
CMB	79.46	42	eP	32	32.00	0.1
ORV	79.70	40	eP	32	33.50	0.5
WDC	79.72	39	eP	32	33.40	0.3
CLC	79.95	45	eP	32	35.00	0.5
GSC	80.19	46	eP	32	37.00	1.2
GLA	80.30	49	eP	32	38.00	1.6
NJ2	80.88	309	Pd	32	39.50	0.2
	0.6s	10.00nm			4.8mb	
MDJ	81.49	325	Pd	32	41.50	-0.7
CN2	83.28	322	eP	32	49.00	-2.4
WHN	83.44	306	eP	32	54.20	1.8
PGC	84.43	33	eP	32	57.00	0.1
TTA	85.48	10	eP	33	00.90	-1.1
PMR	85.50	13	eP	33	00.20	-1.8
	0.3s	31.94nm			5.6mb	
ANM	85.95	5	e(P)	33	02.60	-1.6
KLU	86.13	14	P	33	03.70	-1.5
DAU	86.65	44	P	33	09.50	1.0
BJI	86.89	315	eP	33	08.50	-0.7
	1.6s	30.00nm			5.0mb	
Z	14s	1.20um			5.5MszX	
PV09	87.09	47	P	33	10.60	0.0
ALQ	87.25	51	eP	33	11.70	0.4
	0.9s	5.25nm			4.5mb	
ANMO	87.25	51	P	33	12.60	1.3
	0.7s	3.94nm			4.4mb	
NEW	87.49	35	P	33	11.50	-0.5
	0.5s	12.10nm			5.1mb	
TIY	88.28	312	eP	33	17.00	1.0
FBA	88.74	12	iPd	33	15.50	-2.0
	0.6s	22.17nm			5.3mb	
LRM	88.76	39	eP	33	18.40	0.1
IMA	88.79	9	eP	33	16.20	-1.7
	0.9s	5.90nm			4.5mb	
BW06	88.95	43	P	33	19.20	-0.1
XAN	89.13	307	iPd	33	20.10	0.1
GOL	90.23	47	P	33	25.00	-0.3
	0.5s	1.35nm			4.1mb	
CHG	91.17	290	eP	33	31.00	1.4
CHTO	91.17	290	iPc	33	31.00	1.4
	0.6s	7.44nm			4.8mb	
SES	91.98	36	ePd	33	32.50	-0.3
TUL	95.54	54	e(P)	33	50.30	0.9
YKA	96.81	25	P	33	52.70	-1.8
SOB1	127.53	121	(PKP)	39	31.00	2.1X
NB2	139.73	354	PKP	39	39.60	-10.9X
	0.6s	1.50nm				
HFS	140.32	351	ePKP	39	42.00	-9.5X
	0.4s	4.60nm				
KRA	148.14	339	ePKP	40	07.40	2.4X
KSP	148.55	344	ePKP	40	05.00	-0.6
	0.7s	24.00nm				
		id		40	08.90	
CLL	148.88	348	iPKP	40	09.20	3.1X
	0.8s	41.00nm				
WTS	149.08	355	ePKP	40	10.00	3.6X
	0.7s	29.00nm				
		e		40	14.00	
BRG	149.09	346	iPKP	40	09.80	3.3X
	0.8s	16.00nm				
		i		40	14.20	
PRN1	149.68	294	ePKP	40	12.00	4.0X
PRU	149.78	345	iPKPd	40	11.50	4.0X
	0.6s	17.10nm				
MOX	149.78	349	iPKP	40	12.00	4.5X
MBH	149.87	293	ePKP	40	12.50	4.1X
ENN	150.36	356	ePKP	40	13.00	4.7X
	0.8s	20.00nm				
		e		40	20.00	
ZST	150.69	340	ePKP	40	06.50	-2.4X
KHC	150.81	345	PKP	40	14.80	5.6X
GRB1	150.97	348	ePKP	40	14.80	5.4X
	1.1s	15.00nm				
SOTA	153.13	347	iPKP	40	18.70	6.0X

	0.6s	5.40nm				
		i		40	27.10	
LJU	153.40	342	ePKP	40	19.50	6.6X
VOY	153.59	342	e(PKP)	40	19.70	6.4X
VBY	153.66	340	ePKP	40	20.70	7.4X
OHR	154.94	327	ePKP	40	23.00	7.8X
PTO	157.88	23	e(PKP)	40	24.70	5.8X
LIC	163.32	152	PKP	40	25.40	0.1
KIC	163.57	153	PKP	40	25.70	0.1
TIC	163.70	151	PKP	40	25.90	0.2
	S.D. = 1.1		on 99 of 121 obs.			

& JAN 03, 1991 15h 08m 48.05s
57.312 N 147.512 W
DEPTH = 10.0km (geophysicist)
GULF OF ALASKA (15)
<AEIC>.

MID	2.21	16	eP	09	19.68	-5.6
			eS	09	44.77	
MTU	2.69	358	eP	09	26.69	-5.4
			eS	09	56.44	
SYI	2.91	299	eP	09	29.44	-5.7
CNPM	2.96	320	iP	09	30.47	-5.5
			eS	10	03.32	
SEW	2.98	341	eP	09	30.32	-5.8
			eS	10	04.14	
BRLK	3.03	326	eP	09	31.42	-5.5
KNIM	3.05	358	iP	09	31.70	-5.5
KAIM	3.08	30	eP	09	32.12	-5.5
XLV	3.09	316	eP	09	32.15	-5.6
HIN	3.14	9	eP	09	32.99	-5.5
			eS	10	08.04	
HOM	3.20	319	eP	09	34.40	-4.9
CVA	3.37	15	iP	09	36.21	-5.5
			eS	10	15.01	
NNL	3.38	326	eP	09	36.90	-5.0
SGAM	3.42	20	iP	09	37.14	-5.3
			eS	10	16.52	
RAGM	3.42	24	eP	09	36.84	-5.6
HMT	3.47	28	iP	09	37.73	-5.5
SLKM	3.50	337	eP	09	37.90	-5.7
GLI	3.59	3	iP	09	39.08	-5.7
CDD	3.63	299	eP	09	39.93	-5.6
AUE	3.71	306	eP	09	41.70	-4.9
AUI	3.72	306	eP	09	41.73	-5.0
AUP	3.73	306	eP	09	41.89	-5.1
SNH	3.77	38	eP	09	44.21	-3.3
VZW	3.79	7	eP	09	42.17	-5.6
OPT	3.81	310	eP	09	42.71	-5.4
VLZ	3.88	8	eP	09	43.44	-5.5
WRG	3.96	44	eP	09	44.04	-6.1
WAX	3.97	36	iP	09	44.26	-6.1
			eS	10	25.37	
INE	4.00	316	eP	09	44.72	-6.1
MCNL	4.07	300	eP	09	45.50	-6.1
PMS	4.08	346	eP	09	46.13	-5.7
RDT	4.14	324	eP	09	46.34	-6.4
KNK	4.14	354	eP	09	47.11	-5.6
RED	4.14	321	eP	09	46.44	-6.3
RSO	4.17	321	eP	09	47.03	-6.2
RS2	4.17	321	eP	09	46.95	-6.3
REF	4.17	322	iP	09	47.08	-6.2
RDN	4.21	322	eP	09	47.22	-6.6
TGL	4.22	33	eP	09	47.76	-6.1
KLU	4.27	10	eP	09	48.95	-5.7
YAH	4.28	42	eP	09	48.62	-6.3
PDB	4.29	308	eP	09	48.46	-6.4
NCT	4.30	322	eP	09	48.02	-7.1
PLRM	4.37	350	eP	09	50.15	-5.8
SPU	4.53	331	eP	09	51.81	-6.4
GHO	4.53	351	eP	09	53.29	-5.0
GLB	4.55	23	eP	09	52.37	-6.2
BALM	4.58	33	eP	09	52.45	-6.6
CKL	4.62	330	eP	09	53.37	-6.2
CGLM	4.62	332	eP	09	53.18	-6.4
BGL	4.69	330	eP	09	54.40	-6.2
NCG	4.74	332	eP	09	54.94	-6.4
CTGM	4.85	38	eP	09	56.21	-6.7
TOA	4.86	7	eP	09	56.90	-6.0
TZL	4.86	12	eP	09	57.74	-5.2
PNL	4.87	58	eP	09	56.03	-7.0
BCPM	4.89	54	eP	09	56.67	-6.7
HQN	5.02	61	eP	09	57.76	-7.5
SKT	5.11	338	eP	10	00.97	-5.4
CUT	5.29	346	eP	10	03.66	-5.4
SDG	5.32	10	eP	10	04.25	-5.3

61 obs. associated

JAN 03, 1991 15h 10m 44.56± 0.30s
7.201 S ± 5.0km 148.681 E ± 5.0km
DEPTH = 40.7km (4 depth phases)
5.1mb (9 obs.) 4.9Msz (1 obs.)
EAST PAPUA NEW GUINEA REGION (207)

PMG	2.66	214	iPd	11	27.00	1.0
RAB	4.58	49	eP	11	53.50	0.2
MNDI	5.10	281	eP	12	02.00	1.3
VSG	11.11	101	eP	13	23.00	-1.0
SVO	11.19	101	P	13	26.00	0.9
HNR	11.37	102	P	13	28.00	0.6
OIS	15.92	213	eP	14	27.00	-0.5
QLP	19.74	192	iPd	15	13.50	-0.4
BRS	20.45	170	iPc	15	21.40	0.0
AAI	20.69	279	eP	15	29.00	5.1X
COO	23.45	173	iPc	15	51.00	-0.3
CMS	24.31	186	iPc	15	59.30	-0.2
MNI	25.29	289	eP	16	10.00	0.9
WARB	28.23	225	eP	16	31.00	-5.0X
TOO	30.37	185	iPd	16	55.00	0.0
FORR	30.41	217	eP	16	54.20	-1.2
MAT	44.61	348	eP	18	53.00	-1.8
	1.1s	20.25nm			4.9mb	
SSE	46.29	327	P	19	07.50	-0.6
	0.6s	20.00nm			5.2mb	
Z	20s	1.40um			4.9Msz	
N	14s	0.70um				
		pP		19	19.00	41km
NJ2	48.30	326	Pc	19	24.00	0.0
	0.8s	20.00nm			5.2mb	
		pP		19	35.50	41km
IPM	48.98	282	ePd	19	33.00	3.5X
CHG	55.42	299	eP	20	21.00	3.3X
CHTO	55.42	299	eP	20	17.30	-0.4
		pP		20	30.10	46km
XAN	55.67	320	iPd	20	17.90	-1.3
BJI	55.76	330	eP	20	23.50	3.8X
CD2	57.30	314	eP	20	30.10	-0.9
LZH	60.20	319	eP	20	50.50	-0.7
	1.0s	33.00nm			5.4mb	
		pP		20	57.00	21kmX
		sP		21	02.00	
GTA	64.73	320	eP	21	21.00	-0.2
	0.8s	10.00nm			4.9mb	
		pP		21	27.20	20kmX
LSA	66.29	307	iP	21	33.80	1.9
GUN	69.92	303	P	21	54.40	0.0
	0.7s	26.00nm			5.3mb	
PKI	70.20	303	P	21	55.58	-0.5
	0.7s	9.00nm			4.9mb	
KKN	70.38	303	P	21	57.04	0.0
	0.6s	9.00nm			5.0mb	
DMN	70.46	303	P	21	57.72	0.1
GKN	70.98	303	P	22	00.38	-0.3
	0.6s	14.00nm			5.2mb	
HYB	73.44	290	eP	22	26.50	11.3X
WMO	74.79	319	eP	22	23.00	0.4
		pP		22	34.00	36km
SPA	82.85	180	iPd	23	28.00	22.0X
	1.0s	15.00nm				
YKA	99.45	28	eP	24	25.60	1.6
	0.4s	0.10nm			3.7mb X	
PPD	144.96	146	ePKP	30	19.10	-0.8
AVE	145.87	323	ePKP	30	23.00	1.9
TIO	147.38	319	iPKP	30	31.00	7.2X
KUK	149.25	270	ePKP	30	33.00	5.9X
BAO	151.94	144	ePKPd	30	28.50	-2.7X
	S.D. = 0.9		on 32 of 42 obs.			

JAN 03, 1991 15h 18m 21.57± 0.99s
7.281 S ± 6.2km 148.556 E ± 6.5km
DEPTH = 68.0 ± 9.2 km
4.5mb (3 obs.)
EAST PAPUA NEW GUINEA REGION (207)

PMG	2.53	213	eP	19	01.00	-0.1
MNDI	4.99	283	eP	19	36.00	0.1
HNR	11.47	102	eP	21	05.00	0.2
OIS	15.79	212	e(P)	22	02.00	0.7
		i		22	29.00	
QLP	19.63	192	eP	22	47.00	-0.5
		i		23	15.20	
KNA	21.12	245	eP	23	01.50	-1.4
		e		23	27.00	

MNI	25.20	289	eP	23	43.00	0.4	MKS	29.01	272	e(P)c	24	47.50	2.2	CHTO	55.39	299	eP	28	20.20	0.3
WARB	28.08	225	eP	24	09.30	0.3	NDF	29.98	113	eP	24	50.50	-3.5X		0.9s		10.66nm			4.9mb
			e	24	38.00		BFD	30.22	190	eP	24	59.00	3.1X	BJI	55.82	330	eP	28	21.00	-1.5
MBL	31.00	241	eP	24	30.00	-4.9X				e	28	40.00			1.3s		38.00nm			5.3mb
			i	24	59.00		TOO	30.24	185	iPc	24	56.20	0.1		Z 18s		1.50um			5.1Msz
COOL	34.77	224	eP	25	08.00	0.4		0.8s		100.00nm			5.7mb	TIY	56.07	326	eP	28	24.00	-0.5
KLB	37.55	226	iPd	25	30.20	-0.8				i	25	09.00	50kmX	CD2	57.31	314	iPc	28	32.80	-0.7
MRWA	37.62	230	eP	25	31.60	-0.1	FORR	30.25	217	eP	24	28.00	-28.2X		1.2s		100.00nm			5.7mb
			e	26	00.00					e	24	56.00	130kmX		Z 18s		2.70um			5.4Msz
NWAO	38.66	224	eP	25	40.50	0.2	VUN	30.98	113	P	25	02.30	-0.5		E 19s		2.30um			
MUN	38.87	226	eP	25	42.00	-0.1	SVA	31.01	113	P	25	15.60	12.6X				iS	36	25.50	
MAT	44.66	348	eP	26	28.00	-1.3	PPR	34.24	299	eP	25	29.00	-2.3	HHC	58.78	328	P	28	43.00	-0.6
	0.9s		9.24nm			4.6mb	MEKA	34.40	233	iPc	25	32.90	0.4	BTO	59.43	327	P	28	47.00	-1.2
IPM	48.87	283	eP	27	03.50	0.7	COOL	34.76	224	eP	25	35.00	-0.6		N 19s		2.20um			
			e	27	34.00		OCP	34.93	309	eP	25	50.00	12.9X		E 19s		1.70um			
LOE	52.36	298	eP	27	30.00	0.7	BAG	36.38	311	eP	25	48.00	-1.7				sP	28	56.00	
NST	53.10	296	eP	27	39.00	4.3X	KLB	37.53	226	iPc	25	59.00	0.0				eS	36	51.00	
CHG	55.35	299	eP	27	52.00	0.8	NWAO	38.65	224	iPc	26	09.80	1.5	LZH	60.23	319	iPc	28	54.00	0.2
CHTO	55.35	299	eP	27	50.00	-1.2	MUN	38.85	226	iPc	26	10.30	0.2		5.0s		370.00nm			5.8mb X
	1.0s		1.25nm			3.9mb		1.0s		200.00nm			5.8mb		Z 25s		1.04um			4.9MszX
LZH	60.18	319	eP	28	24.00	-1.0	WLZ	39.01	145	P	26	11.10	-0.2		N 15s		0.53um			
	1.5s		18.00nm			5.0mb	RKG	39.45	223	eP	26	18.20	3.2X				pP	29	03.50	31km
			pP	28	30.00	20kmX	CNZ	39.95	147	P	26	19.40	0.2				PcP	29	38.00	
			sP	28	35.50		NGZ	39.96	147	P	26	19.50	0.2				PP	31	12.00	
GUN	69.86	303	P	29	28.20	0.3	THZ	40.51	152	P	26	23.00	-0.8				eS	37	00.00	
PKI	70.13	303	P	29	30.20	0.7	PUZ	40.72	143	P	26	24.30	-1.1				sS	37	16.00	
KKN	70.31	303	P	29	30.80	0.3	TCW	40.76	150	P	26	24.90	-0.7				SS	41	00.00	
DMN	70.40	303	P	29	32.00	0.9	KIW	40.82	149	P	26	25.40	-0.8	AFR	60.83	106	iP	28	58.00	0.1
GKN	70.92	303	P	29	33.40	-0.7	MNG	40.93	148	eP	26	24.80	-2.3		1.1s		110.00nm			5.9mb
INK	92.28	21	eP	31	25.50	0.6	NOZ	40.95	144	eP	26	25.40	-1.8	PAE	61.02	106	iP	28	59.40	0.2
PPD	144.96	147	ePKP	37	53.30	-0.2	MRW	40.99	150	eP	26	26.20	-1.3		1.1s		90.00nm			5.8mb
			e	38	21.00		LTZ	41.02	153	P	26	27.30	-0.6	PPT	61.02	106	iP	28	59.40	0.1
AVE	145.86	323	ePKP	37	57.50	2.8X	SNZO	41.04	150	eP	26	23.00	-5.0X		1.1s		110.00nm			5.9mb
			i	38	25.20		CAW	41.08	149	eP	26	27.00	-1.3	PPN	61.16	106	iP	29	00.30	0.1
TIO	147.36	319	iPKP	38	02.50	5.2X	WDW	41.16	149	eP	26	27.50	-1.4		1.1s		90.00nm			5.8mb
			i	38	29.50		KHZ	41.32	152	P	26	28.80	-1.4	TVO	61.34	106	iP	29	01.70	0.2
	S.D. = 0.7		on 26 of 30 obs.				MTW	41.34	149	P	26	28.60	-1.8		1.1s		100.00nm			5.9mb
----------							PGZ	41.35	148	eP	26	29.20	-1.3	PMO	62.62	103	iP	29	10.50	0.5
JAN 03, 1991 15h 18m 44.93± 0.13s							MOW	41.40	149	P	26	29.70	-1.3		1.1s		90.00nm			5.8mb
7.324 S ± 3.3km 148.578 E ± 3.5km							BLW	41.48	149	P	26	30.10	-1.5	VAH	62.87	103	iP	29	12.00	0.3
DEPTH = 24.5km (4 depth phases)							KAGJ	41.87	337	eP	26	34.30	-0.6		1.1s		40.00nm			5.5mb
5.7mb (35 obs.) 5.0Msz (9 obs.)							KUMJ	43.09	338	P	26	43.70	-1.2	TPT	62.89	103	iP	29	12.20	0.4
EAST PAPUA NEW GUINEA REGION (207)							OZH	43.38	319	eP	26	46.20	-1.1		1.1s		60.00nm			5.6mb
CENTROID, MOMENT TENSOR (HRV)								0.7s		60.00nm			5.5mb	RUV	63.11	103	iP	29	13.50	0.2
Data Used: GDSN								Z 20s		1.40um			4.9Msz		1.1s		50.00nm			5.6mb
L.P.B.: 15S, 27C										eS	33	06.00		GTA	64.76	320	iP	29	23.60	-0.3
Centroid Location:							IIDJ	43.74	347	P	26	49.30	-0.9		4.0s		420.00nm			5.9mb X
Origin Time 15:18:53.9 1.1							CHJJ	44.07	349	P	26	51.30	-1.5		Z 22s		0.90um			4.9Msz
Lat 6.51S 0.14 Lon 148.78E 0.13							SHNJ	44.42	339	P	26	53.50	-2.1		E 14s		0.50um			
Dep 15.0 FIX Half-duration 2.1							MAT	44.70	348	iPc	26	56.40	-1.5				pP	29	27.00	11kmX
Moment Tensor; Scale 10**17 Nm								0.3s		155.84nm			6.4mb				PcP	29	57.00	
Mrr=-1.19 0.14 Mtt= 1.13 0.16										eS	33	22.00					S	38	02.20	
Mff= 0.05 0.17 Mrt= 0.62 0.61							MTMJ	44.83	348	P	26	57.80	-1.2				sS	38	10.00	
Mrf=-0.28 0.53 Mtf= 0.64 0.14							NIIJ	45.23	349	P	27	01.40	-0.6				ScS	39	16.00	
Principal Axes:							KGM	46.10	280	ePc	27	17.50	8.2X				eSS	42	10.00	
T Val= 1.51 Plg=10 Azm=338							QIZ	46.29	305	eP	27	10.60	-0.1	LSA	66.28	307	P	29	35.00	0.7
N -0.04 22 72								N 16s		1.20um							S	38	22.00	
P -1.47 66 225								E 19s		1.50um							sS	38	29.00	
Best Double Couple:Mo=1.5*10**17										eS	33	50.00		GUN	69.90	303	P	29	56.60	-0.2
NP1:Strike= 43 Dip=40 Slip=-125							SSE	46.33	327	P	27	09.00	-1.8		0.6s		84.00nm			6.1mb
NP2: 266 58 -64								0.9s		99.00nm			5.8mb	PKI	70.17	303	P	29	57.82	-0.6
								Z 20s		0.50um			4.5Msz	KKN	70.36	303	P	29	59.02	-0.4
RAB	4.74	49	iPc+	19	56.00	-0.7	OFUJ	46.61	353	eP	27	12.30	-0.6		0.5s		25.00nm			5.6mb
JAY	9.18	301	ePc	21	04.50	5.5X	NJ2	48.35	326	Pd	27	27.00	0.3	DMN	70.44	303	P	29	59.92	0.0
VSG	11.18	101	eP	21	26.00	-0.5		0.8s		100.00nm			5.9mb		0.6s		59.00nm			5.9mb
			eS	23	38.00			Z 20s		0.60um			4.6Msz	GKN	70.96	303	P	30	02.68	-0.3
SVO	11.27	100	eP	21	28.00	0.4				S	34	22.00			0.6s		80.00nm			6.0mb
HNR	11.44	101	iP	21	30.00	0.1	WHN	49.94	321	Pc	27	40.00	1.0	KOD	72.92	283	eP	30	16.20	1.2
RMQ	19.06	180	eP	23	10.00	1.7		1.0s		100.00nm			5.8mb	HYB	73.39	291	eP	30	16.70	-0.7
			i	23	23.00	60kmX	TIA	52.42	328	eP	27	56.40	-1.3	GBA	73.61	286	P	30	21.00	2.4
BRS	20.35	169	iPc	23	23.00	0.5		Z 34s		1.90um			4.9MszX		1.3s		32.90nm			5.2mb
			i	25	35.20			E 17s		1.70um				WMQ	74.81	319	P	30	25.50	0.3
			eS	26	17.00		SNY	54.00	337	iPc	28	07.80	-1.4		Z 20s		0.90um			5.1Msz
AAI	20.61	279	eP	23	26.00	0.9		1.2s		100.00nm			5.7mb				pP	30	31.00	18km
			eS	23	31.20			Z 16s		2.60um			5.4MszX				sP	30	34.00	
PVC	21.84	120	iPc	23	37.00	-0.7				pP	28	15.90	27km				PcP	30	40.00	
DZM	22.62	132	iPc	23	45.90	0.4	CN2	55.03	340	eP	28	16.00	-0.8				eS	39	59.00	
COO	23.34	173	iPc	23	53.00	0.6		Z 16s		2.80um			5.4MszX				sS	40	11.50	
	0.6s		79.00nm			5.4mb		N 16s		1.00um				NDI	77.40	301	iPc	30	39.00	-1.0
CMS	24.18	186	eP	24	00.00	-0.4		E 16s		0.50um					0.8s		4.48nm			4.5mb X
			i	24	14.60	61kmX				epP	28	23.00	23km	POO	78.00	291	iPc	30	43.50	0.0
MNI	25.23	289	ePd	24	12.60	1.8				PcP	29	16.00		SVW	80.79	24	eP	30	58.90	1.1
DAV	27.04	301	eP	24	31.00	3.5X				eS	35	54.00		MAW	81.64	203	e(P)	31	03.00	1.0
CNB	27.87	179	iPd	24	35.60	0.7	KMI	55.04	307	Pd	28	19.00	1.5		1.0s		61.00nm			5.6mb
			i	24	47.50	46kmX		1.5s		110.00nm			5.7mb	TTA	81.66	22	eP	31	02.70	0.4
ADE	28.97	197	iPd	24	44.60	-0.2		Z 30s		1.20um			4.8MszX	SPA	82.73	180	iPd	31	09.50	1.5
	1.1s		227.85nm			5.8mb				S	35	58.00			1.2s		85.21nm			5.7mb

03d 15h

PMR	83.72	25	eP	31	12.60	-0.2				i	38	10.00		MTU	1.06	126	eP	51	29.51	-1.7
	1.1s	677.50nm				6.8mb X				i	40	11.40		PWA	1.06	347	iP	51	30.58	-0.6
IMA	84.24	20	eP	31	15.60	0.0				i	41	20.10		SUA	1.08	322	eP	51	29.91	-1.7
	1.2s	39.10nm				5.5mb	SSF	130.42	329	ePKP	37	57.20	2.0X	NNL	1.12	240	eP	51	31.60	-0.5
TOA	85.21	25	eP	31	21.00	0.6		1.6s		46.65nm				BRLK	1.15	222	eP	51	31.09	-1.5
FBA	85.79	23	eP	31	22.20	-1.0	NNA	130.93	113	ePKP	37	57.50	0.4				eS	51	46.11	
BRW	86.27	15	eP	31	25.70	0.3		1.0s		17.00nm				GLI	1.15	76	iP	51	30.63	-1.9
QUE	86.46	301	eP	31	29.50	2.0	TCF	131.60	329	ePKP	37	57.40	-0.1				eS	51	46.01	
			eS	42	03.30		LPB	136.66	123	PKP	37	55.00	-13.4X	GHO	1.18	10	eP	51	31.65	-1.4
INK	92.31	21	eP	31	53.00	-0.9				i	38	08.00					eS	51	48.35	
	1.2s	55.00nm				5.9mb	ZOBO	136.77	123	PKP	37	55.00	-13.9X	SPU	1.43	294	iP	51	35.15	-1.5
		pP		32	17.00	88kmX		1.1s		14.50nm							eS	51	53.27	
FHC	92.79	49	eP	31	58.10	1.3				i	38	09.00		CNPM	1.44	221	eP	51	35.56	-1.2
MAIO	93.54	306	eP	32	01.00	0.5	CCH	137.81	126	ePKP	38	09.00	-1.5	VZW	1.45	71	eP	51	35.21	-1.7
BRK	93.78	52	eP	32	02.70	1.4	SIV	142.60	128	PKP	38	13.50	-5.2X	CGLM	1.46	299	eP	51	35.76	-1.4
WDC	93.86	50	eP	32	03.00	1.3	IFR	144.35	321	iPKP	38	20.00	-1.5	HOM	1.49	231	eP	51	36.37	-1.1
GCC	93.90	53	eP	32	03.20	1.3	BMA	147.67	158	ePKP	38	29.80	2.8X				eS	51	54.65	
MHC	94.21	53	eP	32	05.20	1.6	TEGH	148.74	269	ePKP	38	35.00	6.1X	RDT	1.50	270	eP	51	36.18	-1.5
PRS	94.33	54	eP	32	05.70	1.8	SHGH	148.80	269	ePKP	38	34.00	5.0X				eS	51	55.68	
ORV	94.55	51	eP	32	05.70	0.8	LEGH	148.92	269	ePKP	38	34.50	5.3X	CRP	1.51	297	eP	51	37.28	-0.6
LLA	94.70	54	eP	32	07.30	1.6	KOGH	149.01	270	ePKP	38	35.00	5.6X	CKL	1.56	293	iP	51	37.27	-1.4
PRI	94.87	54	eP	32	08.80	2.2	KUK	149.15	270	ePKP	38	34.00	4.4X	NCG	1.57	301	eP	51	37.46	-1.3
CMB	95.27	52	eP	32	08.80	0.5	TRN	150.21	81	ePKP	38	36.00	4.9X	VLZ	1.57	70	eP	51	36.86	-1.7
SYP	95.28	56	eP	32	11.00	2.4	TBH	150.55	82	ePKP	38	39.00	7.4X	BGL	1.61	295	eP	51	38.03	-1.3
FRI	95.72	54	eP	32	11.00	0.7	BAO	151.90	144	ePKPd	38	13.50	-20.3X	REF	1.65	267	eP	51	38.42	-1.6
PNT	96.67	41	eP	32	14.00	-0.4	KIC	153.49	270	PKP	38	36.06	0.1	RDN	1.68	268	eP	51	38.46	-1.9
	1.0s	22.00nm				5.6mb	LIC	153.77	269	PKP	38	36.64	0.3	RSO	1.68	266	eP	51	38.70	-1.7
PAS	96.74	56	eP	32	16.00	1.0		Z 20s		0.22um			5.0Msz				eS	51	59.70	
MWC	96.84	56	eP	32	17.00	1.3	TIC	153.79	270	PKP	38	36.70	0.3	RS2	1.68	266	eP	51	38.79	-1.7
CLC	97.33	55	eP	32	19.00	1.3	SOB1	161.06	150	ePKP	38	47.70	2.6X	RED	1.70	265	eP	51	38.78	-1.8
RVR	97.39	57	eP	32	18.00	0.1				e	39	30.00		SKT	1.72	324	eP	51	39.30	-1.5
MBC	97.56	14	eP	32	18.00	0.2		S.D. = 1.0		on 162 of 192 obs.				NCT	1.76	270	eP	51	39.51	-2.0
	1.0s	6.00nm				5.1mb	----------							CUT	1.84	347	eP	51	41.38	-1.2
PLM	97.78	57	eP	32	21.00	1.1	? JAN 03, 1991 16h 15m 57.95± 8.46s							KLU	1.89	61	eP	51	41.66	-1.7
GSC	97.94	55	eP	32	22.00	1.5	43.287 N ±15.8km 5.691 E ±68.8km							INE	1.92	255	eP	51	41.96	-1.9
YKA	99.60	28	eP	32	19.60	-7.7X	DEPTH = 10.0km (geophysicist)							TOA	2.14	45	eP	51	46.26	-0.7
	1.3s	6.40nm				5.0mb	NEAR SOUTH COAST OF FRANCE (379)							PDB	2.55	253	eP	51	50.88	-1.8
LRM	101.46	45	ePdiff	32	37.10	0.7	MD 2.5 (STR).							BALM	3.46	80	eP	52	02.86	-2.9
PTZ	114.16	251	iPKPd	37	24.70	-0.4									39 obs. associated					
KRI	115.06	248	ePKP	37	24.00	-2.9X	MVIF	1.22	60	Pn	16	20.84	0.0	----------						
LSZ	116.82	249	iPKPc	37	30.50	0.3				Sg	16	40.49		% JAN 03, 1991 17h 12m 47.11± 1.12s						
FRB	117.72	18	ePKP	37	29.00	-1.3	AURF	1.33	63	Pn	16	22.74	0.2	40.251 N ±10.5km 27.951 E ± 9.8km						
KMZ	119.52	250	iPKPc	37	36.60	1.2				Sg	16	44.56		DEPTH = 10.0km (geophysicist)						
KRA	119.74	325	ePKP	37	35.10	0.5	TOUF	1.34	57	Pn	16	22.83	0.0	TURKEY (366)						
BZS	120.58	319	ePKP	37	45.00	8.7X				Sg	16	44.39		MD 2.6 (ISK).						
SRO	121.71	323	ePKP	37	38.10	-0.3	AUTN	1.45	60	Pn	16	24.56	0.2							
SKO	122.07	315	iPKP	37	38.80	-0.5				Sg	16	46.95		BNT	0.11	347	iPg	12	50.00	0.1
ZST	122.25	324	ePKP	37	39.50	0.1	SAOF	1.52	62	Pn	16	25.04	-0.2	EDC	0.12	325	iPg	12	50.00	-0.1
BRG	122.65	328	iPKP	37	40.90	0.8	PGF	2.54	106	Pn	16	39.97	0.0				eSg	12	53.00	
	1.2s	12.00nm					S.D. = 0.2		on	6 of	6	obs.		DST	0.83	141	iPg	13	03.20	0.0
OHR	122.83	315	ePKP	37	36.20	-4.6X	----------										iSg	13	13.70	
CLL	122.90	328	ePKP	37	39.00	-1.5	% JAN 03, 1991 16h 48m 25.92± 0.83s							YLV	1.13	73	iPn	13	08.40	0.1
	1.2s	14.00nm					43.095 N ± 7.2km 0.572 W ± 7.2km							IZI	1.17	85	ePn	13	08.90	-0.1
KHC	123.79	326	PKP	37	42.50	0.0	DEPTH = 10.0km (geophysicist)							S.D. = 0.1		on	5 of	5	obs.	
	1.3s	12.00nm					PYRENEES (378)							----------						
PTJ	124.03	322	ePKP	37	43.10	0.0	MD 1.0 (STR).							JAN 03, 1991 17h 24m 24.45± 0.38s						
WET	124.17	326	iPKPd	37	44.00	0.8								39.586 N ± 3.8km 23.840 E ± 3.8km						
GRB3	124.65	327	ePKP	37	44.30	0.2	ESCF	0.02	186	Pg	48	27.24	-0.6	DEPTH = 23.0 ± 4.0 km						
	1.2s	24.00nm					ATE	0.10	265	Pg	48	28.60	0.0	AEGEAN SEA (365)						
VBY	124.66	322	ePKP	37	44.50	0.3				Sg	48	30.25		ML 3.1 (ATH). MD 3.5 (THE).						
LJU	124.83	322	e(PKP)	37	44.50	0.0	OGE	0.10	44	Pg	48	28.75	0.1							
CEY	125.05	322	e(PKP)	37	45.00	0.0	ISSF	0.18	248	Pg	48	29.84	-0.1	PAIG	0.36	340	eP	24	31.44	-0.9
PEL	125.13	140	ePKP	37	46.50	0.9				Sg	48	33.89					eS	24	37.40	
VOY	125.23	323	ePKP	37	45.00	-0.4	LHE	0.18	191	Pg	48	30.60	0.5	NEO	0.55	240	iPnd	24	34.50	-1.0
SOTA	126.17	325	iPKPc	37	46.90	-0.4	MADF	0.19	286	Pg	48	30.18	0.1	OUR	0.76	8	eP	24	38.33	-0.5
	1.0s	21.30nm					S.D. = 0.5		on	6 of	6	obs.					iS	24	50.98	
		i		37	58.30		----------							PLG	0.84	339	iPnc	24	39.00	-1.4
OGA	126.47	325	ePKP	37	48.60	0.6	& JAN 03, 1991 16h 51m 11.61s										eSn	24	51.70	
MDZ	126.47	141	e(PKP)	37	47.90	-0.3	60.619 N 149.366 W							LIT	1.16	297	iP	24	44.57	-0.8
ABH	126.55	330	ePKP	37	47.93	0.1	DEPTH = 19.2km							THE	1.24	328	eP	24	46.84	0.4
ARV	127.08	320	PKP	37	51.00	2.0X	KENAI PENINSULA, ALASKA (14)										eS	25	03.96	
ASS	127.47	320	PKP	37	50.00	0.2	<AEIC>.							SOH	1.29	343	eP	24	47.40	0.2
SFI	127.55	321	PKP	37	50.00	0.2											iS	25	06.94	
CRE	127.64	321	PKP	37	50.00	-0.2	SLKM	0.44	256	iP	51	20.45	-0.1	AGG	1.30	245	eP	24	46.92	-0.4
MNS	127.79	319	PKP	37	51.10	0.7				eS	51	27.08					eS	25	06.28	
BSF	128.22	328	ePKP	37	50.40	-0.7	SEW	0.52	185	eP	51	21.41	-0.5	SRS	1.54	353	iP	24	50.36	-0.4
	1.2s	32.75nm								eS	51	28.97					eS	25	14.56	
VAI	128.32	325	PKP	37	52.50	1.3	PMS	0.64	351	eP	51	23.20	-0.7	ATH	1.61	183	iPnd	24	50.80	-1.0
HAU	128.35	328	ePKP	37	50.60	-0.7				eS	51	32.09		EVR	1.71	248	ePn	24	53.50	0.2
	1.4s	30.50nm					KNIM	0.85	108	iP	51	26.31	-1.3	KNT	1.73	336	eP	24	54.08	0.6
LPG	129.68	326	ePKP	37	53.80	-0.4				eS	51	38.42					eS	25	20.40	
	1.6s	36.70nm					KNK	0.91	29	eP	51	27.43	-1.2	KZN	1.75	295	ePn	24	53.50	-0.3
LOR	130.11	329	ePKP	37	57.10	2.5X				eS	51	40.25		GRG	1.76	322	eP	24	54.14	0.3
	Z 20s	0.75um				5.4Msz	NKA	0.93	279	eP	51	29.31	0.4				eS	25	19.42	
LBF	130.23	329	ePKP	37	56.40	1.5	LTI	0.95	127	iP	51	27.81	-1.4	PRK	1.91	99	ePb	24	57.00	0.9
BCAO	130.24	270	iPKPc	37	57.00	1.1	PLRM	0.98	7	eP	51	28.63	-1.2	EZN	1.93	82	iPn	24	58.50	2.1
	1.1s	35.00nm								eS	51	42.23		VAY	1.99	331	ePn	24	57.70	0.5

		i	25	01.20	
		iSn	25	27.70	
		Lg	25	33.40	
MMB	2.00	358 iPgd	24	58.10	0.6
RDO	2.03	39 ePn	24	56.00	-1.8
ALN	2.14	51 iP	24	58.36	-1.0
RZN	2.20	17 iPc	25	01.00	0.5
FNA	2.24	303 iP	25	00.89	0.1
KDZ	2.39	30 iP	25	00.50	-2.4
PLD	2.60	14 eP	25	07.20	1.3
IGT	2.71	270 eP	25	09.80	2.3
		eS	25	44.64	
DIM	2.78	27 e(P)	25	08.80	0.4
OHR	2.78	304 iPn	25	08.80	0.3
		Lg	26	05.90	
ITM	2.83	213 ePn	25	09.00	-0.2
VLS	2.90	242 ePb	25	12.00	1.8
IZM	2.92	113 iPn	25	19.00	8.5X
VLI	2.95	194 ePn	25	09.30	-1.6
PGB	2.97	5 eP	25	11.50	0.3
SKO	3.00	323 ePn	25	11.20	-0.4
		Lg	26	04.00	
KEK	3.12	274 ePb	25	16.00	2.6X
EDC	3.18	75 ePn	25	20.50	6.3X
BNT	3.23	75 ePn	25	18.00	3.1X
KCT	3.54	78 ePn	25	27.00	7.7X
JMB	3.55	35 e(P)	25	23.00	3.6X
DST	3.70	88 ePn	25	22.00	0.4
DMK	3.72	52 ePn	25	23.00	1.1
PVL	3.80	17 eP	25	20.00	-2.9X
YLV	4.36	75 ePn	25	41.40	10.5X
IZI	4.39	78 eP	25	31.00	-0.5

S.D. = 1.1 on 35 of 43 obs.

% JAN 03, 1991 17h 47m 01.16± 1.97s
3.732 N ± 9.4km 76.917 W ±19.3km
DEPTH = 33.0km (normal)
COLOMBIA (103)
MD 2.8 (UVC).

ANCC	0.22	167 iPd	47	07.92	-0.1
		eS	47	12.90	
CLMC	0.38	67 iPc	47	10.24	0.0
HOOC	0.39	133 iPd	47	10.07	-0.3
		eS	47	16.60	
BUGC	0.68	76 ePc	47	14.37	0.0
		eS	47	24.20	
SALC	0.79	164 eP	47	15.79	-0.2
		eS	47	26.70	
DIAC	0.84	121 eP	47	16.74	0.0
		eS	47	28.30	
HOBC	1.00	52 eP	47	19.00	0.0
		eS	47	32.30	
SILC	1.19	151 iPd	47	22.41	0.5

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

• JAN 03, 1991 18h 01m 18.38± 1.72s
7.145 S ±11.0km 148.562 E ± 9.2km
DEPTH = 37.9 ± 16.8 km
5.1mb (8 obs.)
EAST PAPUA NEW GUINEA REGION (207)
ML 4.4 (PMG).

PMG	2.65	212 eP	02	00.00	0.4
HNR	11.49	102 P	04	03.00	-0.1
OLP	19.77	192 iPc	05	47.30	-1.0
		i	05	59.30	
MAT	44.53	348 iPc	09	27.80	-0.5
CHTO	55.29	299 eP	10	50.10	-0.8
	1.2s	3.13nm		4.2mb	
LZH	60.08	319 eP	11	24.00	-0.5
	1.6s	35.00nm		5.2mb	
GUN	69.79	303 P	12	28.20	0.5
	0.5s	18.00nm		5.3mb	
PKI	70.07	303 Pc	12	29.54	0.1
KKN	70.25	303 P	12	30.94	0.6
	0.8s	15.00nm		5.1mb	
DMN	70.33	303 P	12	31.50	0.5
	0.6s	18.00nm		5.3mb	
GKN	70.85	303 P	12	34.26	0.3
	0.8s	28.00nm		5.3mb	
HYB	73.31	291 eP	12	48.50	-0.1
GBA	73.55	286 Pd	12	50.30	0.4
	0.9s	3.00nm		4.3mb	
NDI	77.30	301 eP	13	10.00	-1.1
SPA	82.90	180 iPd	13	41.90	1.4
	1.1s	6.55nm		4.6mb	
INK	92.15	21 eP	14	26.00	1.2
PPD	145.07	147 e(PKP)	20	53.00	-1.3
KIC	153.48	270 PKP	21	15.80	8.4X
TIC	153.77	271 PKP	21	17.40	9.5X

S.D. = 0.9 on 17 of 19 obs.

JAN 03, 1991 18h 36m 57.61± 0.56s
33.491 N ± 7.0km 132.308 E ± 4.3km
DEPTH = 62.5 ± 5.8 km
5.0mb (20 obs.)
SHIKOKU, JAPAN (236)

SHNJ	1.18	303 iPd	37	17.50	-0.9
		S	37	32.90	
TKSJ	1.53	71 iPd	37	22.20	-1.0
KUMJ	1.57	233 iP+	37	23.60	-0.1
YONJ	1.94	29 iPd	37	28.30	-0.6
		eS	37	51.30	
KAGJ	2.59	208 P	37	38.00	0.0
WKYJ	2.83	74 iP+	37	40.70	-0.7
TSRJ	3.66	55 P	37	52.80	-0.2
IIDJ	5.04	65 P	38	11.40	-1.1
		eS	39	07.10	
MTMJ	5.46	54 P	38	18.80	0.3
MAT	5.72	56 iPd	38	21.30	-0.7
	0.5s	62.68nm		5.2mb	
		eS	39	38.00	
CHJJ	6.07	63 P	38	27.00	0.2
NIIJ	6.62	54 P	38	34.70	0.1
YAMJ	7.82	51 eP	38	51.60	0.4
OFUJ	9.39	51 eP	39	13.50	0.8
AOMJ	9.55	40 eP	39	21.40	6.5X
SSE	9.71	259 Pc	39	17.00	-0.1
	1.0s	15.00nm		5.0mb	
Z	20s	2.80um		5.5Msz	
N	14s	2.10um			
E	13s	2.80um			
		SS	41	04.00	
SNY	10.82	323 eP	39	34.20	2.1
Z	18s	3.00um			
		eS	41	34.00	
NJ2	11.42	266 Pd	39	42.80	2.6
	3.0s	700.00nm		6.1mb X	
		pP	39	55.00	
CN2	11.60	335 eP	39	47.60	5.0X
Z	15s	2.30um			
		epP	39	55.00	
TIA	12.76	287 eP	39	59.20	1.1
Z	16s	2.30um			
		eS	42	28.00	
BJI	14.48	301 eP	40	21.00	0.5
	0.8s	20.00nm		4.6mb	
Z	18s	2.10um			
WHN	15.51	264 eP	40	40.50	6.6X
Z	16s	1.40um		6.0Msz	
N	10s	1.00um			
E	11s	1.20um			
		sP	40	55.00	
TIY	16.70	290 eP	40	52.70	3.8X
Z	18s	2.10um			
E	19s	2.40um			
HHC	18.07	300 eP	41	08.20	2.3
BTO	19.13	298 eP	41	19.00	0.5
N	15s	0.90um			
E	15s	1.20um			
		eS	44	53.00	
XAN	19.45	278 eP	41	21.40	-0.5
N	10s	0.90um			
		pP	41	34.00	55kmX
		S	44	58.00	
GZH	19.62	243 eP	41	24.00	0.3
Z	15s	1.70um			
N	12s	0.90um			
E	14s	1.00um			
GYA	23.26	259 P	42	00.20	-0.2
Z	15s	1.50um		4.6MszX	
N	12s	0.90um			
E	12s	1.70um			
		sS	46	30.00	
LZH	23.49	284 eP	42	01.50	-1.1
CD2	24.27	272 eP	42	09.40	-0.7
Z	14s	3.40um		5.0MszX	
E	11s	0.90um			
		eS	46	27.60	
GTA	26.70	292 eP	42	33.80	0.9
	4.0s	420.00nm		5.4mb X	
Z	22s	1.30um		4.4Msz	
E	14s	0.90um			
		S	47	06.20	
CHTO	33.16	252 e(P)	43	29.60	-0.6
	0.6s	0.28nm		3.3mb X	
WMQ	35.95	300 eP	43	54.10	0.1
Z	20s	1.00um		4.6Msz	
		PP	45	24.00	
GUN	40.05	275 P	44	28.18	-0.6
	1.0s	168.00nm		5.9mb	
PKI	40.56	275 P	44	30.86	-2.1
	0.9s	24.00nm		5.0mb	
KKN	40.59	275 P	44	32.14	-0.9
	0.8s	31.00nm		5.2mb	
DMN	40.80	275 P	44	33.40	-1.4
	1.5s	80.00nm		5.3mb	
GKN	41.05	276 P	44	35.14	-1.6
	0.9s	47.00nm		5.3mb	
HYB	50.57	265 eP	46	05.00	12.9X
GBA	53.42	262 P	46	15.00	1.6
	0.8s	1.50nm		4.1mb	
QIS	54.19	172 iPd	46	18.80	-0.1
MBL	55.63	194 eP	46	30.00	0.6
	0.6s	7.00nm		4.9mb	
FBA	56.00	30 e(P)	46	33.00	1.4
	0.5s	2.00nm		4.4mb	
WARB	59.59	186 iPc	46	58.00	0.8
MBC	61.94	15 eP	47	12.00	-0.6
	0.8s	16.00nm		5.2mb	
KEV	64.02	338 eP	47	34.00	7.6X
SOD	65.23	336 eP	47	33.00	-1.2
KAF	67.89	331 iP	47	50.20	-1.0
	0.5s	8.90nm		5.0mb	
DAG	68.53	353 iPc	47	54.10	-0.9
	0.5s	14.08nm		5.2mb	
NUR	69.40	330 eP	47	57.80	-2.7
YKA	70.47	27 P	48	21.70	14.7X
HFS	74.03	333 eP	48	26.00	-2.0
	0.6s	7.90nm		4.8mb	
NB2	74.35	334 P	48	28.30	-1.7
	0.7s	7.00nm		4.7mb	
NEW	77.74	40 eP	48	51.30	2.0
	1.0s	5.75nm		4.5mb	
SES	79.51	36 ePd	49	00.70	1.8
LRM	81.76	40 eP	49	12.90	1.8
OHR	82.63	315 eP	49	12.00	-3.5X
TNP	83.88	48 eP	49	21.00	-1.1
	0.7s	9.00nm		4.9mb	
BW06	85.33	41 eP	49	30.90	1.6
	1.0s	5.75nm		4.6mb	
ALQ	92.46	45 eP	50	06.00	2.8
	0.8s	3.54nm		4.8mb	
TIC	123.18	306 PKP	55	49.00	-0.3
KIC	123.20	306 PKP	55	49.00	-0.3
LIC	123.49	306 PKP	55	49.40	-0.5
NNA	145.84	58 ePKP	56	32.00	0.6
	1.0s	12.00nm			
ZOBO	154.83	52 PKP	56	47.70	2.3X
LPB	155.04	52 PKP	56	54.00	8.5X
CNCB	155.31	53 PKP	56	49.00	3.0X
SIV	158.80	38 PKP	56	51.90	2.2X
		i	57	27.70	

S.D. = 1.3 on 56 of 68 obs.

JAN 03, 1991 18h 53m 49.86± 0.52s
45.687 N ± 3.8km 3.628 E ± 4.6km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.7 (LDG).

PYM	0.44	279 Pg	53	58.52	-0.3
		Sg	54	04.42	
LBL	0.53	211 Pg	54	00.51	0.0
SSB	0.76	122 Pg	54	04.42	-0.4
		Sg	54	14.34	
MAF	0.91	306 Pg	54	07.00	-0.3
		Sg	54	19.00	
SMF	0.97	9 Pg	54	08.00	-0.3
		Sg	54	20.00	
BGF	1.03	328 Pg	54	09.10	-0.2
		Sg	54	22.50	
AVF	1.12	350 Pg	54	10.20	-0.6
		Sg	54	24.70	
TCF	1.16	302 Pg	54	11.10	-0.4
		Sg	54	26.20	
LBF	1.32	10 Pg	54	14.40	0.1
		Sg	54	31.20	
CAF	1.34	236 Pn	54	15.10	0.5

03d 18h

		Pg	54	15.80		
		Sg	54	32.90		
SSF	1.38	357 Pg	54	15.20	0.1	
		Sg	54	32.00		
RJF	1.53	256 Pn	54	16.80	-0.5	
		Pg	54	19.10		
		Sg	54	38.60		
LSF	1.57	292 Pg	54	19.00	1.2	
		Sg	54	38.80		
LOR	1.59	6 Pg	54	19.20	1.1	
		Sg	54	38.80		
LPO	2.00	241 Pg	54	27.70	3.7X	
		Sg	54	53.50		
LFF	2.17	251 Pg	54	30.10	3.6X	
		Sg	54	59.90		

S.D. = 0.6 on 14 of 16 obs.

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* JAN 03, 1991 19h 04m 31.68± 0.91s
39.743 N ± 9.2km 20.837 E ± 8.4km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
ML 2.3 (ATH).

KEK	0.80	268 ePb	04	47.70	0.5	
KZN	0.91	52 ePb	04	50.00	0.8	
EVR	1.12	137 ePb	04	51.80	-0.9	
OHR	1.37	359 ePn	04	55.80	-1.0	
NEO	1.90	103 ePb	05	30.00	25.6X	
ATH	2.86	127 ePb	05	18.80	0.6	
		eSb	05	28.00		

S.D. = 1.3 on 5 of 6 obs.

JAN 03, 1991 19h 29m 45.65± 1.14s
7.190 S ± 5.4km 148.521 E ± 5.9km
DEPTH = 38.3 ± 11.4 km
5.2mb (15 obs.) 4.6Msz (2 obs.)
EAST PAPUA NEW GUINEA REGION (207)
ML 5.2 (PMG).

PMG	2.59	211 eP	30	28.00	2.0	
RAB	4.70	51 eP	30	55.00	-1.0	
		eS	31	41.00		
VSG	11.27	101 P	32	30.00	2.7	
SVO	11.35	101 eP	32	28.00	-0.4	
HNR	11.52	102 eP	32	29.00	-1.8	
QIS	15.85	212 eP	33	28.00	0.3	
MTN	18.02	250 eP	33	54.80	-0.2	
RMQ	19.19	179 eP	34	09.00	-0.3	
QLP	19.71	191 iPc	34	14.20	-0.8	
		i	34	26.00		
BRS	20.49	169 iP	34	24.00	0.8	
		eS	38	39.00		
AAI	20.53	279 eP	34	24.50	1.0	
GUA	20.90	350 eP	34	09.20	-18.2X	
KNA	21.13	245 eP	34	26.00	-3.7X	
	0.5s	61.00nm		5.2mb		
		e	34	28.50		
COO	23.48	173 e(P)	34	52.00	-0.9	
CMS	24.30	186 eP	35	00.00	-0.8	
MNI	25.14	289 eP	35	10.00	1.0	
WARB	28.12	225 eP	35	36.00	-0.3	
ADE	29.08	197 e(P)	35	42.00	-2.9	
	1.2s	53.13nm		5.1mb		
FORR	30.33	216 eP	35	54.40	-1.5	
	0.4s	63.00nm		5.7mb		
BFD	30.34	189 e(P)	35	58.00	2.0	
TOO	30.37	185 eP	35	55.00	-1.3	
MBL	31.01	240 eP	36	00.50	-1.6	
TRT	35.58	267 eP	36	42.00	0.2	
MRWA	37.65	230 eP	36	59.10	0.0	
	0.5s	5.00nm		4.7mb		
QZH	43.24	319 eP	37	44.40	-0.8	
MAT	44.56	348 eP	37	54.00	-1.8	
	0.8s	24.63nm		5.1mb		
		eS	44	53.00		
SSE	46.19	327 Pd	38	08.00	-0.7	
	0.6s	20.00nm		5.2mb		
	Z 20s	0.50um		4.5Msz		
	N 14s	0.40um				
NJ2	48.20	326 Pd	38	24.30	-0.3	
	0.6s	30.00nm		5.5mb		
IPM	48.82	282 ePd	38	32.10	2.5	
	1.0s	36.00nm		5.4mb		
WHN	49.80	321 eP	38	38.50	1.6	
PSI	50.46	279 ePd	38	42.20	0.0	
TIA	52.28	328 eP	38	55.40	-0.2	
	Z 18s	0.80um		4.8Msz		

LOE	52.29	298 eP	38	56.50	0.5	
GYA	52.60	311 P	38	58.00	-0.3	
NST	53.03	296 eP	39	05.00	3.5X	
CN2	54.88	340 P	39	16.00	1.3	
	Z 15s	1.50um			5.2MszX	
	N 15s	0.40um				
	E 15s	0.40um				
		epP	39	26.00	33kmX	
		eS	46	50.00		
CHG	55.28	299 eP	39	18.50	0.5	
CHTO	55.28	299 eP	39	16.90	-1.1	
	1.0s	14.75nm			5.0mb	
XAN	55.56	320 iPd	39	18.50	-1.3	
BJI	55.67	330 eP	39	18.50	-1.9	
	1.6s	30.00nm			5.1mb	
	Z 16s	0.90um			4.9MszX	
TIY	55.93	326 eP	39	22.00	-0.5	
	Z 30s	0.60um			4.5MszX	
		PcP	40	22.00		
CD2	57.18	314 eP	39	30.60	-0.9	
HHC	58.64	328 eP	39	41.80	0.2	
BTO	59.29	327 eP	39	45.10	-1.0	
LZH	60.09	319 iPd	39	51.50	-0.3	
	1.5s	82.00nm			5.6mb	
	Z 16s	0.29um			4.5MszX	
		eS	48	00.00		
GTA	64.62	320 iPd	40	21.00	-0.9	
	4.0s	250.00nm			5.6mb X	
LSA	66.16	307 Pd	40	34.00	1.6	
GUN	69.78	303 P	40	55.30	0.4	
	0.4s	36.00nm			5.7mb	
PKI	70.06	303 P	40	56.72	0.1	
KKN	70.24	303 P	40	57.82	0.3	
DMN	70.32	303 P	40	58.68	0.6	
GKN	70.84	303 P	41	01.44	0.3	
	0.8s	83.00nm			5.8mb	
KOD	72.83	283 eP	41	11.00	-2.4	
HYB	73.29	291 eP	41	15.50	-0.2	
		e	41	28.50		
GBA	73.52	286 P	41	17.00	0.1	
WMQ	74.67	319 P	41	23.30	0.0	
		pP	41	37.00	48kmX	
NDI	77.29	301 iPd	41	37.60	-0.6	
	0.5s	4.23nm			4.7mb	
SPA	82.86	180 iPd	42	08.50	1.0	
	1.0s	16.00nm			5.0mb	
QUE	86.35	301 eP	42	27.60	1.8	
WDC	93.82	50 eP	43	01.80	1.5	
CMB	95.24	52 e(P)	43	07.60	0.6	
FRI	95.68	54 e(P)	43	09.20	0.2	
VRI	117.02	318 ePdiff	44	52.00	7.9X	
NB2	117.62	338 Pdiff	44	54.70	8.2X	
	0.9s	7.90nm				
MLR	117.66	318 ePdiff	44	48.00	0.9	
KRA	119.60	325 ePdiff	44	35.10	-20.4X	
BCAO	130.19	270 iPKPd	48	56.30	1.8	
	0.9s	9.00nm				
		i	49	23.90		
CNCB	136.74	124 ePKP	49	09.00	1.5	
LPB	136.78	123 (PKP)	49	05.00	-2.4X	
SIV	142.73	128 ePKP	49	06.00	-11.7X	
IFR	144.21	321 iPKPc	49	19.00	-1.0	
PPD	145.05	147 ePKP	49	20.50	-1.0	
AVE	145.76	323 iPKP	49	24.00	1.6	
		i	49	38.00		
TIO	147.27	319 iPKP	49	28.00	2.9X	
		i	49	42.00		
SHGH	148.75	270 ePKP	49	33.00	5.3X	
LEGH	148.86	269 ePKP	49	33.00	5.1X	
KOGH	148.96	270 ePKP	49	33.00	4.9X	
WEGH	149.00	269 ePKP	49	33.50	5.4X	
KUK	149.09	270 ePKP	49	30.50	2.3X	
BAO	152.04	144 ePKPc	49	48.50	15.8X	
KIC	153.44	270 PKP	49	42.50	7.9X	
TIC	153.73	270 PKP	49	43.20	8.2X	

S.D. = 1.2 on 65 of 82 obs.

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* JAN 03, 1991 19h 33m 55.71± 0.42s
0.642 N ±12.0km 29.455 W ±10.4km
DEPTH = 10.0km (geophysicist)
5.0mb (16 obs.) 4.4Msz (3 obs.)
CENTRAL MID-ATLANTIC RIDGE (406)

SOB1	15.02	229 eP	37	29.50	-0.4	
PDCR	16.23	216 eP	37	45.00	-0.5	
		e	37	49.40		
M80	18.42	42 iP	38	13.60	0.6	

BAO	24.43	228 ePc	39	16.40	0.4	
LIC	25.00	77 P	39	21.14	-0.1	
	Z 19s	0.74um			4.2Msz	
TIC	25.09	76 P	39	21.80	-0.4	
	1.4s	89.50nm			5.3mb	
KIC	25.30	76 P	39	23.86	-0.3	
	1.4s	73.50nm			5.2mb	
SIV	35.32	241 P	40	53.90	0.5	
IFR	39.89	32 iPd	41	33.00	1.3	
ZOBO	41.69	244 P	41	48.00	0.8	
	1.0s	22.50nm			4.9mb	
	Z 20s	1.37um			4.8Msz	
		S	48	16.00		
		LR	53	54.00		
CNCB	41.75	244 P	41	48.20	0.5	
LPB	41.76	244 P	41	46.00	-1.6	
		LR	53	46.00		
BCAO	48.08	85 iPc	42	40.10	2.2	
	0.5s	13.00nm			5.3mb	
MAF	53.37	27 eP	43	17.90	0.3	
	0.9s	9.85nm			4.8mb	
LBF	54.59	28 eP	43	26.80	0.2	
	1.1s	17.10nm			5.0mb	
LOR	54.74	27 eP	43	27.60	-0.1	
	0.9s	8.20nm			4.8mb	
	Z 20s	0.32um			4.4Msz	
LPL	54.88	31 eP	43	29.80	0.9	
	1.0s	6.00nm			4.6mb	
HAU	56.44	28 eP	43	40.00	0.1	
	1.2s	29.75nm			5.2mb	
SDI	56.46	38 P	43	41.80	1.6	
CRE	56.48	35 P	43	37.50	-2.9	
BSF	56.52	29 eP	43	40.40	-0.3	
	1.2s	23.80nm			5.1mb	
ASS	56.56	36 P	43	42.00	1.1	
SFI	56.60	35 P	43	41.00	-0.1	
DUI	56.83	38 P	43	45.00	2.1	
CDF	57.16	28 eP	43	44.60	-0.6	
	1.2s	20.85nm			5.0mb	
CTI	57.81	33 P	43	49.50	-0.3	
SQTA	58.32	31 iPd	43	52.00	-1.3	
	1.6s	56.10nm			5.4mb	
		i	43	59.10		
FVI	58.76	33 P	43	58.50	2.3	
TRI	58.76	34 eP	43	55.40	-0.9	
VOY	59.03	34 eP	43	57.50	-0.8	
CEY	59.16	34 e(P)	43	59.00	-0.1	
LJU	59.40	34 e(P)	44	00.90	0.2	
VBY	59.49	35 eP	44	04.00	2.6	
OHR	60.63	42 eP	44	05.20	-4.1X	
KHC	60.76	31 Pd	44	09.70	-0.3	
SKO	61.46	41 iP	44	13.70	-1.2	
PRU	61.78	31 eP	44	14.50	-2.4	
		e	44	22.50		
ZST	62.07	33 eP	44	17.80	-1.1	
SRO	62.53	34 eP	44	18.40	-3.5X	
KSP	63.19	31 eP	44	24.50	-1.8	
SPC	64.36	34 eP	44	31.40	-2.8	
TUL	70.59	308 e(P)	45	09.40	-4.0X	
ANMO	78.98	305 eP	46	02.00	0.1	
	1.7s	5.77nm			4.3mb	
BW06	82.29	313 eP	46	19.80	0.4	
	1.0s	1.75nm			4.1mb	
SES	84.13	320 eP	46	28.00	-0.4	
YKA	87.18	332 P	46	44.50	1.4	
TNP	87.84	308 eP	46	46.80	-0.3	
	1.0s	9.25nm			5.1mb	
MBC	89.36	346 eP	46	55.00	1.6	
	1.3s	6.00nm			4.7mb	

S.D. = 1.3 on 45 of 48 obs.

? JAN 03, 1991 20h 12m 36.47± 2.19s
4.652 N ±21.4km 76.055 W ±27.3km
DEPTH = 110.0km (geophysicist)
COLOMBIA (103)
MD 3.8 (UVC).

HOBC	0.31	195 eP	12	53.42	-0.5	
BUGC	0.78	195 ePc	12	56.46	0.5	
		eS	13	12.40		
CLMC	0.92	214 eP	12	58.34	1.0	
		eS	13	15.70		
HOQC	1.31	206 ePc	13	01.26	-0.4	
DIAC	1.36	186 iPc	13	02.19	0.0	
ANCC	1.39	216 ePc	13	01.93	-0.5	
SALC	1.79	201 iPc	13	07.13	-0.3	
		eS	13	31.10		

```
SILC     1.97 188 ePc    13 09.70  -0.3
PURC     2.33 188 eP     13 15.12   0.3
                  eS     13 44.80
       S.D. = 0.6  on   9 of   9 obs.
-------------------------------------------
&  JAN 03, 1991  20h 15m 51.80s
   38.802 N          122.810 W
   DEPTH =   6.0km
 NORTHERN CALIFORNIA                ( 36)
      <BRK>. ML 3.7 (BRK).
      Mo=8.5*10**14 Nm (BRK).

NWRM     0.35 190 eP     15 59.00   0.1
ZSP      0.96 153 iPc    16 10.59   0.2
                  iS     16 22.93
BRK      1.02 155 eP     16 10.80  -0.7
BKS      1.03 154 ePc    16 10.70  -0.9
                  eS     16 26.10
ORV      1.27  53 iPc    16 12.89  -2.8
                  iS     16 20.46
PCC      1.34 165 iPd    16 15.08  -1.9
LTCM     1.50  20 e(P)   16 19.00  -0.3
MHC      1.73 147 eP     16 21.40  -1.2
ARN      1.77 145 eP     16 21.70  -1.4
WDC      1.79   7 eP     16 21.70  -1.7
MIN      1.80  31 iPd    16 23.50  -0.2
GCC      1.88 160 e(P)   16 22.50  -2.3
CMB      2.05 111 iPc    16 26.30  -1.0
SAO      2.30 152 eP     16 28.50  -2.4
LBFM     2.64  15 e(P)   16 34.00  -1.8
SYP      4.84 151 eP     17 37.00  30.0
CLC      5.11 124 eP     17 15.00   4.2
SBB      5.73 134 eP     17 18.00  -1.6
GSC      5.94 124 eP     17 24.00   1.5
       19 obs. ossaciated
-------------------------------------------
*  JAN 03, 1991  20h 38m 31.07± 1.54s
   30.584 S ± 9.2km   71.993 W ±15.7km
   DEPTH =  59.8 ± 16.6 km
   3.9mb (  1 obs.)
 NEAR COAST OF CENTRAL CHILE        (135)

IHA      2.45 173 eP     39 07.50  -1.9
                  e(S)   39 39.50
PEL      2.78 157 ePc    39 14.50   0.3
                  iS     39 55.10
ZON      3.00 109 ePd    39 20.90   3.6X
                  eS     39 37.90
RTLL     3.12 105 iPd    39 19.80   0.9
                  eS     40 02.00
RTCV     3.22 114 eP     39 22.90   2.5
MDZ      3.52 131 iP     39 27.60   3.0X
                  i      39 49.10
                  i(S)   40 04.20
CYA      5.81  70 iPc    39 55.50  -1.2
ARE     14.07   2 eP     41 49.00  -0.1
CNCB    14.19  16 P      41 52.00   1.0
LPB     14.43  15 P      41 51.00  -3.0X
ZOBO    14.68  15 P      41 57.00  -0.4
SIV     17.63  37 P      42 33.90  -0.3
PPD     20.38  70 eP     43 03.90  -1.4
BMA     26.05  79 eP     43 58.60  -2.0
BAO     26.54  61 ePc    44 05.00  -0.3
KIC     73.99  72 P      50 04.00   1.6
YKA     98.84 341 eP     52 06.20   1.2
        0.8s      0.30nm          3.9mb
GBA    147.17 114 PKPd   58 11.10   3.8X
        0.7s      2.40nm
HYB    150.17 109 ePKP   58 18.50   6.5X
      S.D. = 1.5  on  14 of  19 obs.
-------------------------------------------
   JAN 03, 1991  20h 38m 37.94± 1.13s
   1.973 N ± 5.0km  126.731 E ± 7.4km
   DEPTH =  83.6 ± 11.0 km
   5.2mb ( 18 obs.)
 MOLUCCA PASSAGE                    (266)
      CENTROID, MOMENT TENSOR       (HRV)
      Data Used: GDSN
      L.P.B.: 16S, 32C
      Centroid Location:
      Origin Time          20:38:40.4 0.4
      Lat  2.48N 0.05 Lon 126.84E 0.05
      Dep  15.0 FIX Half-duration  2.5
      Moment Tensor;    Scale 10**17 Nm
        Mrr= 1.31 0.10  Mtt= 0.60 0.14
        Mff=-1.90 0.13  Mrt=-5.74 0.20
        Mrf= 2.31 0.26  Mtf=-0.57 0.11
      Principal Axes:
        T  Val=  7.18   Plg=46   Azm=199
        N       -1.93      5        295
        P       -5.25     43         30
      Best Double Couple:Mo=6.2*10**17
      NP1:Strike=187 Dip= 6 Slip= 162
      NP2:        295     88         85

MNI      1.96 254 ePd    39 11.50   1.5
                  eS     39 46.10
DAV      5.21 347 eP     39 49.00  -6.0X
AAI      5.81 165 eP     40 02.00  -1.4
                  eS     40 12.50
MAP      8.73 342 eP     40 37.50  -6.1X
TSM      8.93 285 ePd    40 51.50   5.2X
MKS     10.18 225 ePc    41 04.20   0.9
KKM     11.24 291 eP     41 19.00   1.4
JAY     14.66 108 ePc    42 05.20   2.7
MTN     15.36 164 eP     42 07.50  -3.8X
BAG     15.57 337 eP     42 14.00  -0.2
                  eS     45 13.00
TRT     17.03 235 ePc    42 36.00   3.7X
KNA     17.72 174 eP     42 39.00  -1.8
        0.7s     89.00nm          5.1mb
GUA     21.34  56 eP     43 32.00  11.9X
OIZ     23.68 317 Pd     43 42.00  -1.0
      N  14s      1.90um
      E  13s      1.20um
                  sP     44 00.00
                  eS     47 49.00
MBL     23.96 196 eP     43 45.00  -0.7
OZH     24.15 342 P      43 45.00  -2.4
      Z  32s      7.40um          5.0MszX
      N  23s      4.80um
                  sP     44 02.50
                  eS     47 59.50
GZH     24.68 329 iPc    43 51.50  -1.0
      Z  30s      3.20um          4.6MszX
      N  11s      0.90um
                  S      48 05.00
OIS     25.70 151 iPc    43 59.70  -2.4
IPM     25.79 276 ePd    44 06.60   3.6X
PSI     27.79 272 eP     44 25.00   3.7X
SSE     29.44 350 Pd     44 37.50   1.7
        1.0s     12.00nm          4.5mb
      Z  20s      1.40um          4.6Msz
      N  20s      2.80um
      E  18s      0.90um
                  sP     44 54.00
                  eS     49 20.00
MEKA    29.50 195 iPd    44 36.40  -0.1
WHN     30.74 339 eP     44 50.50   3.1X
      Z  34s      4.30um          4.9MszX
      N  22s      4.10um
NJ2     30.83 347 eP     44 47.00  -1.1
      Z  23s      1.20um          4.5MszX
      E  10s      0.50um
                  S      49 41.00
GYA     31.05 323 P      44 50.00  -0.3
      Z  22s      1.30um          4.5Msz
      N  12s      0.80um
      E  12s      0.90um
                  S      49 46.00
BDT     31.19 301 eP     44 51.50   0.0
        0.7s     30.30nm          5.1mb
CHG     31.95 303 ePd    44 57.50  -0.7
        0.9s     47.90nm          5.3mb
CHTO    31.95 303 eP     44 57.00  -1.2
        0.3s      2.44nm          4.5mb
                  pP     45 13.10  67kmX
KMI     32.63 317 Pd     45 06.50   2.2
      Z  20s      2.30um          4.9Msz
      E  15s      0.90um
FORR    32.67 178 eP     45 02.10  -2.0
        0.4s     43.00nm          5.6mb
MRWA    32.67 198 eP     45 04.20  -0.1
        0.3s      5.00nm          4.8mb
KLB     34.45 194 eP     45 19.50  -0.1
HNR     34.98 109 eP     45 16.00  -8.3X
MUN     35.21 196 eP     45 26.00  -0.1
TIA     35.21 346 eP     45 26.40   0.3
      Z  26s      1.90um          4.7MszX
      E  22s      2.10um
NWAO    35.85 194 eP     45 32.00   0.5
XAN     35.98 334 Pc     45 30.50  -2.2
      N  20s      3.60um
                  S      51 00.00

MAT     36.00  16 eP     45 30.00  -2.7
        2.0s    176.47nm          5.6mb
      Z  20s      2.48um          5.0Msz
                  eS     51 16.00
CD2     36.07 325 eP     45 33.00  -0.4
      Z  23s      3.00um          5.0MszX
      E  12s      0.90um
                  eS     51 07.50
RKG     37.00 193 eP     45 48.00   6.9X
CMS     37.90 153 eP     45 48.00  -0.7
TIY     37.92 341 eP     45 50.00   1.1
      Z  27s      3.40um          5.0MszX
      N  28s      5.70um
                  S      51 41.00
YAMJ    38.04  17 eP     45 48.90  -0.9
ADE     38.42 164 eP     45 52.90  -0.3
        0.9s     36.97nm          5.3mb
BJI     39.09 347 eP     45 57.50  -1.0
        1.0s     36.00nm          5.2mb
      Z  25s      1.90um          4.8MszX
                  eS     51 49.00
OFUJ    39.37  18 eP     46 00.20  -0.7
SNY     39.78 356 eP     46 04.40   0.2
        1.0s     40.00nm          5.3mb
      Z  23s      1.50um          4.8MszX
                  pP     46 09.00  16kmX
                  S      52 04.00
LZH     40.02 331 eP     46 05.00  -1.5
        5.0s    370.00nm          5.5mb X
      Z  28s      4.17um          5.1MszX
      E  19s      1.57um
                  pP     46 12.50  25kmX
                  sP     46 21.00
COO     40.28 145 eP     46 09.00   0.4
HHC     41.06 342 eP     46 16.80   1.9
      Z  26s      4.90um          5.3MszX
BTO     41.32 341 eP     46 18.80   1.8
BFD     41.63 161 eP     46 23.00   3.5X
CN2     41.66 359 eP     46 20.50   0.9
      Z  20s      3.60um          5.2Msz
      N  15s      0.40um
      E  15s      0.40um
                  epP    46 29.00  29kmX
                  eS     52 30.00
MDJ     42.54   3 eP     46 27.00   0.2
                  sP     46 40.00
                  S      52 44.00
                  sS     53 04.00
TOO     43.02 158 eP     46 32.00   1.1
LSA     43.61 313 P      46 37.40   1.1
      N  42s      5.70um
      E  44s      4.00um
                  eS     53 03.00
GTA     44.60 330 eP     46 39.80  -4.0X
        6.0s    340.00nm          5.4mb X
      Z  30s      4.50um          5.2MszX
      E  15s      1.10um
                  sP     46 55.60
                  PP     48 27.00
DZM     45.54 124 iPc    46 53.10   1.7
GUN     46.77 307 P      47 00.52  -0.9
        0.7s    116.00nm          5.9mb
PKI     47.00 307 P      47 01.72  -1.5
        0.7s     22.00nm          5.2mb
KKN     47.19 307 P      47 03.28  -1.3
        0.7s     41.00nm          5.4mb
DMN     47.26 307 P      47 03.98  -1.2
        0.9s     55.00nm          5.5mb
GKN     47.80 307 P      47 07.86  -1.4
        0.8s     59.00nm          5.5mb
KOD     49.61 282 eP     47 23.80   0.3
HYB     49.73 291 eP     47 24.50   0.4
GBA     50.08 286 P      47 26.00  -0.7
NDI     54.09 304 eP     47 56.00  -0.6
WMO     54.16 326 P      47 57.70   0.8
      Z  28s      1.70um          5.0MszX
                  sP     48 12.00
POO     54.34 291 eP     47 58.50  -0.1
QUE     63.09 303 eP     49 01.00   1.7
MAIO    70.58 308 eP     49 48.00   1.6
TAB     81.23 308 eP     50 50.00   3.5X
NAI     89.97 269 eP     51 36.00   5.7X
INK     91.79  22 eP     51 36.00  -1.3
MBC     93.65  13 eP     51 47.50   1.7
        1.0s     7.00nm          5.0mb
VRI     95.56 316 eP     51 57.00   1.9
YKA    101.09  25 ePdiff52 28.50   8.9X
```

03d 20h

0.9s 1.30nm 4.6mb
KIC 130.85 280 PKP 57 43.70 1.4
TIC 131.08 281 PKP 57 44.20 1.4
LIC 131.15 280 PKP 57 44.10 1.2
UPA 151.65 67 iPKPd 58 27.60 9.0X
Z 20s 0.82um 5.5Msz
NNA 154.60 114 ePKP 58 18.50 -4.2X
1.0s 11.00nm
CNCB 159.34 136 PKP 58 33.00 3.8X
LPB 159.45 136 ePKP 58 35.00 5.8X
Z 24s 1.55um 5.8MszX
LR 56 26.00
ZOBO 159.61 135 PKP 58 30.00 0.5
Z 22s 0.71um 5.5Msz
LR 56 18.00
PDCR 162.50 233 (PKP) 58 33.00 1.2
SIV 164.09 152 PKP 58 36.90 3.5X
S.D. = 1.3 on 66 of 87 obs.

• JAN 03, 1991 22h 13m 35.76± 1.70s
1.922 N ± 9.5km 126.787 E ±13.0km
DEPTH = 101.5 ± 15.5 km
4.8mb (4 obs.)
MOLUCCA PASSAGE (266)

MNI 2.00 256 ePd 14 09.00 0.0
TRT 17.05 236 ePc 17 33.40 4.1X
QIS 25.63 151 eP 18 58.00 0.4
ASPA 26.36 165 eP 19 04.10 -0.2
0.3s 9.00nm 4.8mb
Z 23s 0.20um 3.6MszX
CHG 32.03 303 eP 19 54.90 0.0
CHTO 32.03 303 eP 19 54.00 -0.9
0.8s 6.95nm 4.4mb
FORR 32.61 178 eP 19 59.50 -0.2
MAT 36.03 16 eP 20 29.00 0.0
XAN 36.05 334 Pc 20 27.70 -1.6
TIY 37.98 341 eP 20 50.90 5.4X
Z 36s 0.70um 4.2MszX
SNY 39.83 356 eP 21 01.00 0.4
LSA 43.69 313 P 21 35.00 2.1
GTA 44.67 330 eP 21 40.00 -0.3
GUN 46.85 307 Pc 21 57.98 0.0
0.6s 17.00nm 5.0mb
PKI 47.07 307 P 22 01.04 1.3
KKN 47.27 307 P 22 10.42 9.3X
DMN 47.33 307 P 22 01.64 -0.1
GKN 47.87 307 P 22 05.62 -0.2
0.8s 11.00nm 4.7mb
HYB 49.80 291 eP 22 21.00 0.5
GBA 50.15 286 P 22 22.00 -1.1
WMQ 54.23 326 eP 22 53.30 -0.1
YKA 101.11 25 ePdiff 27 31.90 16.5X
0.8s 0.50nm
S.D. = 0.9 on 18 of 22 obs.

% JAN 03, 1991 23h 03m 23.09± 1.25s
16.371 N ±20.5km 61.188 W ±11.2km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)
ML 2.8 (FDF).

SFG 0.12 184 eP 03 29.10 0.1
DEG 0.14 115 iPd 03 29.09 -0.1
S 03 32.90
SEG 0.31 276 iPd 03 30.93 0.0
S 03 35.00
DOG 0.53 231 ePd 03 34.19 0.0
PAG 0.58 234 eP 03 34.90 0.0
S.D. = 0.1 on 5 of 5 obs.

• JAN 03, 1991 23h 51m 12.91± 0.76s
38.348 N ± 7.6km 22.059 E ± 7.2km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 2.6 (ATH).

EVR 0.60 341 ePb 51 24.80 -0.3
VLS 1.17 262 ePb 51 35.00 0.2
eSb 51 54.50
NEO 1.32 43 ePb 51 37.50 0.2
ATH 1.36 106 ePg 51 38.00 0.1
VLI 1.77 157 ePb 51 43.50 -0.3
KZN 1.97 354 ePg 51 50.50 3.8X
OHR 2.93 341 e(Pn) 52 05.70 5.3X
S.D. = 0.4 on 5 of 7 obs.

JAN 04, 1991 00h 44m 41.06± 0.45s
1.132 N ± 7.1km 123.614 E ± 7.3km
DEPTH = 34.2km (2 depth phases)
4.8mb (3 obs.) 3.6Msz (1 obs.)
MINAHASSA PENINSULA (265)

MNI 1.26 76 eP 45 03.20 0.6
eS 45 39.00
DAV 6.23 18 eP 46 14.00 0.8
TSM 6.33 299 ePc 46 14.00 -0.5
PPR 9.87 331 ePc 47 02.00 -1.7
QCP 13.65 350 eP 48 02.00 7.3X
BAG 15.47 349 eP 48 18.00 -0.8
CVP 16.56 354 eP 48 40.00 7.5X
KGM 20.31 273 ePd 49 18.50 1.5
IPM 22.82 279 ePc 49 51.00 8.7X
ASPA 26.60 159 eP 50 17.70 -0.6
1.0s 9.40nm 4.4mb
Z 21s 0.20um 3.6Msz
eS 54 25.90
QIS 26.64 145 iPd 50 18.50 -0.2
i 50 27.20 31km
NST 27.30 303 eP 50 39.00 14.3X
CHG 29.90 308 eP 50 32.70 -15.5X
CHTO 29.90 308 e(P) 50 50.00 1.8
1.1s 18.55nm 4.8mb
pP 51 00.50 38km
FORR 32.09 173 eP 51 06.00 -1.2
ADE 38.59 160 e(P) 52 03.30 0.5
0.9s 33.61nm 5.1mb
BJI 39.31 351 P 52 13.00 4.4X
BFO 41.96 157 e(P) 52 39.00 8.5X
GUN 44.86 310 P 52 54.68 0.1
PKI 45.05 309 P 52 55.76 -0.4
KKN 45.26 309 P 52 57.30 -0.3
DMN 45.31 309 P 52 57.72 -0.3
GKN 45.86 309 P 53 02.04 -0.3
KOD 46.74 283 eP 53 09.00 -0.6
HYB 47.15 293 eP 53 12.50 0.0
GBA 47.34 287 P 53 16.00 2.1
NDI 52.03 306 eP 53 59.00 9.2X
QUE 60.95 304 eP 54 53.30 -0.4
MAIO 68.65 309 eP 55 51.00 7.6X
KIC 127.91 279 PKP 03 57.00 10.9X
CNCB 160.69 144 PKP 04 56.00 15.9X
e 05 36.00
LPB 160.83 144 PKP 04 59.00 19.0X
ZOBO 161.02 143 PKP 04 47.00 6.6X
S.D. = 1.0 on 20 of 33 obs.

% JAN 04, 1991 01h 35m 48.96± 1.87s
38.383 N ± 8.1km 23.731 E ±22.9km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 2.7 (ATH).

ATH 0.41 182 iPbd 35 56.70 -0.6
eSb 36 03.20
NEO 1.00 337 ePb 36 08.00 0.0
EVR 1.60 290 ePb 36 17.20 -0.2
VLI 1.78 201 ePn 36 21.00 1.1
ITM 1.87 231 ePb 36 21.00 -0.3
S.D. = 0.9 on 5 of 5 obs.

JAN 04, 1991 02h 13m 54.54± 0.67s
38.367 N ± 6.0km 22.267 E ± 7.3km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 2.7 (ATH).

EVR 0.66 327 ePg 14 06.00 -1.7
NEO 1.20 38 ePb 14 16.20 -0.7
ATH 1.21 109 ePb 14 16.80 -0.2
ITM 1.22 193 ePg 14 17.50 0.3
VLS 1.33 262 ePb 14 18.50 -0.6
VLI 1.73 162 ePb 14 25.00 0.2
KZN 1.97 349 ePn 14 29.50 1.1
OHR 2.96 338 e(Pn) 14 43.70 1.2
S.D. = 1.1 on 8 of 8 obs.

• JAN 04, 1991 02h 46m 01.63± 0.79s
27.377 S ± 5.8km 71.296 W ±14.9km
DEPTH = 33.0km (normal)
4.2mb (2 obs.)
NEAR COAST OF NORTHERN CHILE (122)

ANT 3.74 12 iP 46 58.50 0.1
iS 47 58.30
RTCB 4.64 153 e(P) 47 11.90 0.6
S 48 08.10
RTLL 4.65 149 ePd 47 11.00 -0.4
eS 48 06.70
ZON 4.74 152 e(P) 47 16.80 4.1X
CYA 4.98 104 ePc 47 15.50 -0.7
CFA 4.99 148 eP 47 17.00 0.8
RTCV 5.07 152 e(P) 47 18.00 0.6
IHA 5.64 183 eP 47 34.00 8.7X
e(S) 48 32.50
PEL 5.77 175 eP 47 26.20 -1.1
i 48 26.70
i 48 36.50
MDZ 5.88 159 e(P) 47 36.90 8.0X
CNCB 10.96 17 eP 48 41.00 1.3
LPB 11.19 16 P 48 53.00 10.2X
ZOBO 11.44 16 P 48 45.00 -1.3
PPD 18.91 78 eP 50 15.60 -6.6X
TUL 67.06 339 eP 56 54.70 1.0
1.0s 10.40nm 4.9mb
YKA 96.01 341 eP 59 25.20 -0.9
0.5s 0.10nm 3.5mb
S.D. = 1.0 on 11 of 16 obs.

• JAN 04, 1991 03h 02m 55.75± 0.69s
44.969 N ±12.4km 138.339 E ±16.1km
DEPTH = 33.0km (normal)
4.5mb (6 obs.)
EASTERN SEA OF JAPAN (223)

MAT 8.42 181 iPc 04 59.30 0.9
0.8s 53.73nm 5.7mb X
GUN 44.70 266 P 11 07.40 -0.4
KLU 45.42 41 eP 11 17.00 4.2X
GKN 45.53 267 P 11 13.00 -1.2
MBC 49.63 18 ePd 11 50.50 5.1X
0.5s 2.00nm 4.4mb
KEV 55.22 337 eP 12 34.00 6.8X
SOD 56.78 335 eP 12 44.00 5.5X
YKA 58.19 31 eP 12 49.50 1.1
0.5s 1.30nm 4.3mb
NUR 61.90 329 eP 13 14.00 0.1
HFS 65.93 333 eP 13 42.00 1.8
0.3s 4.30nm 5.0mb
NB2 66.00 335 P 13 40.40 -0.3
0.6s 2.90nm 4.6mb
FFC 68.30 33 eP 13 55.00 -0.2
0.6s 8.00nm 5.0mb
FRB 69.56 12 eP 14 04.00 1.2
PV09 77.10 48 eP 14 46.60 -1.1
ALQ 81.19 49 eP 15 07.70 -2.0
1.0s 2.50nm 4.2mb
S.D. = 1.3 on 11 of 15 obs.

JAN 04, 1991 03h 08m 19.70± 0.53s
39.497 N ± 5.1km 28.266 E ± 6.2km
DEPTH = 33.0km (normal)
TURKEY (366)
MD 3.2 (ISK).

DST 0.30 69 iPg 08 27.50 0.0
BNT 0.90 343 iPg 08 35.50 -0.5
iSg 08 48.60
EDC 0.90 340 ePg 08 35.50 -0.5
eSg 08 48.50
IZI 1.25 48 iPn 08 40.10 -0.9
IZM 1.35 216 ePn 08 41.50 -0.9
YLV 1.37 38 iPn 08 42.10 -0.6
ALT 1.50 107 iPn 08 44.00 -0.7
KHL 1.53 140 iPn 08 45.80 0.7
EZN 1.53 283 iPn 08 45.40 0.4
GBZT 1.58 35 ePn 08 47.00 1.3
ISK 1.68 21 ePn 08 49.10 1.9
HRT 1.71 39 iPn 08 46.60 -1.0
CIN 1.90 184 eP 08 51.00 0.6
DMK 2.35 351 ePn 08 57.00 0.1
S.D. = 1.0 on 14 of 14 obs.

% JAN 04, 1991 04h 11m 19.68± 2.89s
38.390 N ± 7.1km 23.902 E ±33.3km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 2.6 (ATH).

ATH 0.44 199 iPnd 11 28.60 -0.1
NEO 1.06 330 ePn 11 40.00 0.4

		eSn	11 55.00		
EVR	1.72 288	ePn	11 49.00	-0.9	
VLI	1.84 205	ePn	11 51.00	-0.5	
ITM	1.98 233	ePb	11 54.70	1.1	
KZN	2.53 320	ePn	12 01.50	0.0	
S.D. = 0.9		on	6 of 6 obs.		

JAN 04, 1991 04h 21m 55.14± 0.54s
41.105 N ± 5.3km 22.426 E ± 4.1km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.0 (SKO).

GRG	0.15 187	iP	21 58.45	-0.2	
		iS	22 00.48		
VAY	0.24 27	iPg	22 00.20	-0.1	
		iSg	22 04.00		
KNT	0.36 81	iP	22 02.58	0.0	
		eS	22 07.72		
THE	0.62 139	eP	22 06.98	-0.7	
		eS	22 16.92		
SOH	0.76 112	iP	22 10.01	0.0	
		eS	22 21.48		
FNA	0.86 248	eP	22 11.54	-0.2	
		eS	22 23.52		
SRS	0.88 89	eP	22 11.96	-0.1	
		eS	22 24.20		
LIT	1.00 177	eP	22 14.21	0.0	
		eS	22 29.64		
OHR	1.23 271	ePg	22 18.20	0.2	
		eSg	22 35.00		
PAIG	1.52 140	eP	22 23.40	1.1	
S.D. = 0.5		on	10 of 10 obs.		

JAN 04, 1991 04h 31m 44.59± 0.83s
41.119 N ± 7.2km 22.490 E ± 6.7km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.5 (SKO).

GRG	0.18 202	iP	31 47.50	-1.1	
		eS	31 50.04		
VAY	0.21 17	iPg	31 48.70	-0.5	
		iSg	31 52.30		
KNT	0.31 82	iP	31 51.13	0.1	
		eS	31 56.00		
THE	0.61 143	eP	31 56.88	0.1	
		eS	32 03.92		
SOH	0.72 114	eP	31 59.24	0.5	
		iS	32 08.64		
FNA	0.91 249	eP	32 02.92	0.9	
		eS	32 14.64		
S.D. = 0.9		on	6 of 6 obs.		

? JAN 04, 1991 04h 47m 41.49± 3.21s
15.858 N ±14.3km 60.958 W ±28.1km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)
ML 2.5 (FDF).

DEG	0.46 348	eP	47 51.66	0.0	
		S	47 59.00		
BBL	0.60 236	eP	47 53.54	0.0	
		S	48 02.00		
DOG	0.66 285	eP	47 54.44	0.1	
		S	48 03.20		
PAG	0.72 284	eP	47 55.20	0.0	
		S	48 05.20		
SEG	0.76 316	eP	47 55.55	-0.1	
		S	48 06.00		
S.D. = 0.1		on	5 of 5 obs.		

% JAN 04, 1991 04h 51m 46.28± 1.71s
38.365 N ± 6.3km 23.766 E ±21.6km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 2.5 (ATH).

ATH	0.39 186	ePb	51 54.50	0.1	
NEO	1.03 336	ePn	52 05.80	0.0	
		eSn	52 22.00		
EVR	1.63 290	ePn	52 15.00	-0.2	
VLI	1.77 202	ePn	52 16.80	-0.4	
ITM	1.88 231	ePn	52 19.00	0.3	
KZN	2.48 322	ePn	52 27.50	0.1	
S.D. = 0.3		on	6 of 6 obs.		

? JAN 04, 1991 05h 17m 14.21± 8.92s
51.531 N ±51.1km 16.331 E ±58.0km
DEPTH = 10.0km (geophysicist)
POLAND (548)
ML 3.1 (VKA).

KSP	0.69 182	iP	17 27.70	-0.2	
	0.3s	53.00nm			
		iS	17 37.50		
BRG	1.64 247	iPg	17 42.60	-0.5	
		iSg	18 02.20		
PRU	1.92 217	eP	17 47.00	-0.2	
	0.4s	32.30nm			
		Pg	17 48.00		
		eSn	18 04.50		
		Sg	18 11.50		
		e	18 18.60		
CLL	2.10 265	ePg	17 50.00	0.2	
		eSg	18 16.00		
KHC	2.98 217	ePn	18 03.10	0.7	
		ePg	18 09.00		
		eSn	18 38.00		
		Sg	18 48.80		
MOX	3.10 255	ePg	18 12.00	7.9X	
		iSg	18 50.00		
VKA	3.27 180	e(Pg)	18 14.00	7.5X	
		e(Sg)	19 00.00		
S.D. = 0.7		on	5 of 7 obs.		

& JAN 04, 1991 05h 40m 59.42s
59.706 N 152.983 W
DEPTH = 101.3km
SOUTHERN ALASKA (2)
<AEIC>.

OPT	0.14 247	iP	41 13.18	0.9	
		eS	41 23.95		
INE	0.36 354	iP	41 14.25	-0.6	
		eS	41 26.34		
AUE	0.40 210	eP	41 14.13	-0.7	
AUP	0.41 213	eP	41 14.49	-0.6	
AGU	0.42 214	eP	41 14.42	-0.7	
AUH	0.42 215	eP	41 14.68	-0.4	
AUI	0.44 212	eP	41 14.44	-0.7	
PDB	0.62 278	iP	41 15.56	-0.9	
		iS	41 28.20		
HOM	0.68 93	iP	41 16.53	-0.5	
		eS	41 29.93		
XLV	0.69 111	eP	41 16.22	-0.9	
RED	0.72 8	eP	41 16.70	-0.8	
RSO	0.77 9	iP	41 17.39	-0.7	
		iS	41 31.19		
RS2	0.77 8	eP	41 17.40	-0.7	
		eS	41 30.66		
REF	0.80 10	iP	41 17.58	-0.8	
		eS	41 31.62		
RDN	0.82 8	eP	41 17.80	-0.7	
		eS	41 31.74		
CDD	0.85 204	eP	41 17.56	-1.1	
NCT	0.86 2	eP	41 18.06	-0.8	
		eS	41 32.56		
MCNL	0.87 234	eP	41 17.72	-1.1	
NNL	0.92 68	eP	41 19.37	0.1	
RDT	0.92 18	iP	41 18.54	-0.9	
		eS	41 33.31		
BRLK	1.06 86	eP	41 19.80	-1.2	
SYI	1.14 164	iP	41 21.05	-0.7	
		eS	41 37.85		
NKA	1.36 39	eP	41 25.09	0.8	
CKL	1.53 12	iP	41 25.75	-0.9	
		eS	41 45.97		
SPU	1.55 17	iP	41 25.82	-1.0	
		eS	41 46.04		
BGL	1.59 10	iP	41 26.62	-0.7	
SLKM	1.60 59	eP	41 25.93	-1.5	
CGLM	1.68 16	iP	41 27.54	-0.9	
NCG	1.75 13	eP	41 28.62	-0.8	
SEW	1.82 76	eP	41 28.49	-1.7	
SVW	1.92 318	iP	41 30.03	-1.5	
SUA	2.08 31	eP	41 32.98	-0.8	
PMS	2.29 46	eP	41 35.27	-1.2	
SKT	2.39 17	iP	41 36.35	-1.4	
PWA	2.48 37	eP	41 38.08	-0.8	
LTI	2.61 80	eP	41 38.71	-1.9	
MTU	2.71 82	eP	41 39.94	-2.0	
KNIM	2.71 74	eP	41 39.48	-2.6	
KNK	2.82 51	eP	41 41.65	-1.8	
GHO	2.88 42	eP	41 42.36	-2.0	
CUT	3.01 25	eP	41 44.78	-1.3	
GLI	3.16 66	eP	41 45.23	-2.9	
VLZ	3.59 64	eP	41 51.19	-2.8	
43 obs. ossociated					

% JAN 04, 1991 05h 43m 31.37± 1.43s
46.801 N ± 5.0km 2.389 W ±12.8km
DEPTH = 10.0km (geophysicist)
BAY OF BISCAY (539)
ML 3.1 (LDG).

LPF	1.53 36	Pn	43 59.40	0.6	
		Pg	44 02.40		
		Sg	44 22.00		
MFF	1.56 97	Pn	44 00.00	0.9	
		Pg	44 02.80		
		Sg	44 23.60		
GRR	1.90 33	Pn	44 04.20	0.2	
		Pg	44 08.60		
		Sn	44 28.00		
		Sg	44 32.00		
FLN	2.35 33	Pn	44 10.30	-0.3	
		Pg	44 16.80		
		Sg	44 45.70		
LDF	2.36 40	Pn	44 10.60	-0.1	
		Pg	44 16.90		
		Sg	44 46.50		
LSF	2.76 100	Pn	44 16.90	0.4	
		Pg	44 25.00		
		Sg	45 01.60		
LFF	2.87 129	Pn	44 17.80	-0.2	
		Pg	44 27.60		
		Sg	45 05.20		
RJF	3.10 117	Pn	44 22.00	0.7	
		Pg	44 31.20		
		Sg	45 10.40		
TCF	3.21 98	Pn	44 23.10	0.2	
		Pg	44 33.50		
		Sg	45 15.20		
LPO	3.28 129	Pg	44 34.00	10.2X	
		Sg	45 16.80		
MAF	3.47 98	Pn	44 26.30	-0.2	
		Pg	44 38.00		
		Sg	45 21.80		
BGF	3.61 92	Pn	44 28.40	-0.1	
		Pg	44 41.20		
		Sn	45 09.20		
		Sg	45 27.50		
CAF	3.63 119	Pn	44 29.20	0.3	
		Sg	45 29.00		
AVF	3.94 88	Pn	44 32.60	-0.6	
SSF	4.05 84	Pn	44 34.60	-0.1	
		Pg	44 49.60		
		Sn	45 19.60		
EPF	4.24 152	Pn	44 37.00	-0.5	
		Sn	45 24.00		
SMF	4.29 90	Pn	44 38.40	0.3	
		Pg	44 54.00		
LOR	4.30 81	Pn	44 37.80	-0.5	
		Pg	44 54.00		
		Sn	45 24.80		
LBF	4.37 85	Pn	44 38.20	-1.1	
		Sn	45 28.00		
S.D. = 0.5		on	18 of 19 obs.		

? JAN 04, 1991 05h 58m 32.55± 1.97s
44.438 N ±31.9km 147.971 E ±22.8km
DEPTH = 113.5 ± 16.2 km
4.3mb (8 obs.)
KURIL ISLANDS (221)

KUSJ	2.71 242	P	59 13.60	-1.9	
		S	59 44.30		
ASAJ	3.84 267	eP	59 32.50	1.8	
HOOJ	3.98 241	P	59 32.70	0.1	
		S	00 17.10		
FBA	40.19 37	e(P)	06 01.00	2.3	
	0.7s	1.10nm		3.8mb	
CHTO	48.04 254	e(P)	07 03.30	1.2	
	0.9s	1.49nm		3.8mb	
GUN	51.57 273	P	07 29.46	0.1	
	0.5s	18.00nm		5.3mb X	
KKN	52.06 274	P	07 33.30	0.3	
	0.6s	11.00nm		5.0mb	
PKI	52.10 273	P	07 33.28	-0.1	
	0.5s	7.00nm		4.8mb	

04d 06h

DMN 52.30 273 P 07 35.04 0.3
0.6s 20.00nm 5.3mb X
GKN 52.40 274 P 07 35.40 0.0
0.6s 14.00nm 5.1mb
YKA 54.90 34 eP 07 52.20 -0.9
0.6s 0.80nm 3.9mb
KAF 63.96 334 eP 08 54.00 -1.2
NB2 69.17 339 P 09 27.40 -0.8
0.7s 1.90nm 4.0mb
HFS 69.28 337 eP 09 27.60 -1.2
0.6s 5.90nm 4.6mb
S.D. = 1.3 on 14 of 14 obs.

% JAN 04, 1991 06h 07m 09.43± 0.60s
46.489 N ± 8.1km 2.943 E ± 6.1km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.2 (LDG).

BGF 0.10 316 Pg 07 12.00 -0.1
Sg 07 13.70
MAF 0.37 224 Pg 07 17.20 0.1
Sg 07 22.00
AVF 0.41 43 Pg 07 17.50 -0.4
Sg 07 22.60
TCF 0.55 249 Pg 07 20.40 -0.1
Sg 07 27.80
SMF 0.64 75 Pg 07 22.20 -0.1
SSF 0.69 34 Pg 07 23.20 0.1
Sg 07 31.60
LBF 0.87 55 Pg 07 26.00 -0.1
Sg 07 37.00
LOR 1.00 39 Pg 07 29.00 0.6
Sg 07 41.00
S.D. = 0.3 on 8 of 8 obs.

• JAN 04, 1991 06h 14m 08.13± 1.02s
43.737 N ± 9.5km 16.632 E ±18.3km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.8 (ZAG).

HVAR 0.57 194 iPgd 14 19.30 -0.5
iSg 14 30.80
VBY 2.02 331 ePn 14 49.10 6.5X
eSn 15 10.60
ZAG 2.13 348 ePg 14 45.00 0.8
iSn 15 11.00
PTJ 2.22 348 e(Pn) 14 43.50 -2.0
iSn 15 13.50
CEY 2.54 323 eP 15 00.20 10.1X
eSn 15 25.80
TRI 2.84 315 e(P) 15 03.00 8.7X
e 15 37.40
VOY 3.01 321 ePn 14 58.00 1.2
eSn 15 36.90
OHR 4.05 129 e(Pn) 15 12.00 0.5
S.D. = 1.8 on 5 of 8 obs.

• JAN 04, 1991 06h 56m 26.74± 0.45s
49.597 S ± 8.6km 117.340 E ± 9.6km
DEPTH = 10.0km (geophysicist)
5.3mb (11 obs.) 5.0Msz (3 obs.)
SOUTH OF AUSTRALIA (437)

NWAO 16.66 360 eP 00 24.00 2.3
MUN 17.62 357 eP 00 35.00 1.2
KLB 17.99 1 eP 00 37.00 -1.4
MRWA 20.38 357 eP 01 05.00 -1.1
0.6s 8.00nm 4.2mb X
ADE 21.43 55 iPc 01 16.20 -0.7
1.3s 215.38nm 5.4mb
BFD 22.01 65 eP 01 24.00 1.3
TOO 23.52 70 e(P) 01 39.00 1.4
i 01 46.00
WARB 24.46 21 eP 01 46.50 -0.3
ASPA 28.96 33 iPc 02 26.70 -1.6
0.9s 17.00nm 4.8mb
Z 22s 2.10um 4.7Msz
eS 07 21.20
iScS 12 33.10
WRA 32.56 31 P 02 58.00 -2.1
0.8s 15.30nm 5.0mb
RMQ 33.43 58 eP 03 08.50 0.8
SPA 40.59 180 iPc 04 09.00 1.1
2.3s 101.40nm 5.1mb
i 05 55.00
KGM 52.81 342 eP 05 45.50 1.1
IPM 55.78 340 ePd 06 06.70 0.6
1.0s 74.80nm 5.7mb
e 06 13.10
e 06 19.00
KOD 69.05 317 eP 07 35.00 0.0
GBA 72.07 319 P 07 52.70 -0.2
BUL 74.13 258 iPc 08 07.60 2.4
1.0s 14.50nm 5.0mb
HYB 75.03 322 eP 08 10.50 0.4
KMI 75.51 346 Pc 08 14.50 1.5
2.0s 180.00nm 5.8mb
Z 20s 1.00um 5.1Msz
KRI 75.92 261 iPd 08 13.00 -2.6
GYA 76.31 350 P 08 17.60 0.3
POO 78.00 318 iPc 08 26.40 -0.4
WHN 79.83 357 eP 08 38.00 1.6
Z 20s 0.80um 5.1Msz
E 19s 1.10um
CD2 81.05 348 eP 08 43.20 0.2
Z 16s 1.30um 5.4MszX
E 18s 2.20um
PKI 81.92 332 P 08 46.86 -1.1
1.3s 44.00nm 5.4mb
DMN 82.05 331 P 08 47.74 -0.8
GUN 82.09 332 P 08 48.34 -0.5
1.2s 84.00nm 5.7mb
KKN 82.16 332 P 08 48.22 -0.8
1.2s 42.00nm 5.4mb
GKN 82.56 331 P 08 50.16 -0.9
LZH 86.14 349 Pd 09 08.50 -0.5
1.8s 48.00nm 5.4mb
Z 17s 0.50um 5.0MszX
N 12s 0.34um
QUE 91.19 318 eP 09 34.40 1.3
WMQ 96.58 339 eP 09 50.60 -6.8X
TNP 139.83 85 e(PKP) 15 52.90 -3.6X
MSU 143.35 88 ePKP 16 01.60 -1.2
DUG 143.85 86 ePKP 16 01.90 -1.5
1.0s 5.00nm
DPW 144.03 71 ePKP 16 00.90 -2.5X
e 16 07.20
EKA 144.28 303 PKPd 16 08.80 5.3X
0.8s 11.40nm
NEW 144.85 71 ePKP 16 02.20 -2.5X
1.0s 56.50nm
i 16 09.80
ALQ 144.96 98 ePKP 16 03.70 -1.9X
DAU 144.98 86 ePKP 16 04.90 -0.7
i 16 11.90
PV09 145.32 91 iPKPc 16 05.40 -0.8
i 16 12.50
MBC 145.36 21 ePKP 16 04.00 -0.7
0.9s 20.00nm
PTI 145.50 82 ePKP 16 06.80 0.6
LRM 146.78 77 ePKP 16 08.30 0.0
BW06 147.27 84 iPKP 16 10.50 1.3
1.3s 24.59nm
i 16 17.60
DAG 147.88 343 iPKPd 16 10.10 1.3
0.6s 14.67nm
GOL 148.43 92 iPKP 16 15.00 3.8X
1.1s 23.72nm
i 16 21.80
GLD 148.55 92 ePKP 16 16.00 4.7X
1.0s 36.00nm
e 16 22.00
EDM 148.72 64 ePKPd 16 14.00 3.1X
YKA 149.18 46 PKP 16 13.80 2.6X
SES 149.32 70 ePKP 16 11.00 -0.9
OLY 154.72 113 e(PKP) 16 18.30 -1.8X
S.D. = 1.2 on 41 of 52 obs.

• JAN 04, 1991 06h 56m 38.76± 2.09s
45.667 N ±16.6km 26.605 E ±12.4km
DEPTH = 121.1 ± 22.7 km
ROMANIA (358)

VRI 0.22 22 iPd 56 52.50 -2.6
CVO 0.34 297 iPc 56 55.50 -0.1
MLR 0.50 250 iPc 56 57.50 0.3
CLI 1.00 28 iPd 57 02.50 1.3
CMP 1.17 251 ePc 57 04.00 1.0
TLB 1.48 136 iPd 57 09.00 2.7X
PSN 2.28 150 eP 57 17.00 0.7
PVL 2.61 201 eP 57 21.80 1.2
JMB 3.20 180 iPd 57 28.50 0.1
PGB 3.58 210 iPc 57 34.20 0.7
PLD 3.82 202 e(P) 57 39.00 2.3X
VTS 3.93 220 eP 57 39.00 0.6
KDZ 4.11 193 iPc 57 41.50 0.8
RZN 4.21 200 iPc 57 42.50 0.3
MMB 4.58 208 ePd 57 48.00 0.9
ALN 4.79 185 iP 57 49.25 -0.6
e 58 41.02
SRS 5.05 207 iP 57 52.18 -1.3
e 58 49.58
KNT 5.25 212 eP 57 55.14 -1.0
e 58 51.94
SOH 5.39 207 eP 57 56.98 -1.2
e 58 54.82
PAIG 6.13 202 eP 58 07.09 -1.1
S.D. = 1.2 on 18 of 20 obs.

• JAN 04, 1991 07h 01m 08.97± 1.25s
7.896 N ± 8.1km 126.563 E ±12.6km
DEPTH = 95.1 ± 11.6 km
4.7mb (9 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

DAV 1.27 231 iPc+ 01 32.00 -0.4
MAP 3.51 314 ePc 02 03.00 0.6
iS 02 47.00
MNI 6.64 195 eP 02 46.00 0.3
QCP 8.59 322 eP 03 18.00 5.6X
BAG 10.28 326 eP 03 37.00 1.4
QZH 18.58 337 eP 05 16.00 -5.5X
Z 16s 1.20um
QIZ 19.65 306 eP 05 32.40 -0.4
N 16s 1.30um
E 17s 1.20um
GZH 19.73 321 eP 05 32.00 -1.6
KNA 23.59 175 eP 06 10.30 -1.8
SSE 23.62 348 P 06 24.10 11.9X
Z 20s 0.50um 4.0Msz
E 14s 0.50um
i 06 35.50
i 07 15.00
iS 10 32.00
LOE 25.98 294 eP 06 36.00 1.3
NST 26.98 289 eP 06 49.00 5.2X
CHTO 28.93 295 eP 07 02.30 0.8
0.9s 3.62nm 4.0mb
XAN 30.69 330 eP 07 14.00 -2.8
CD2 31.28 320 eP 07 23.00 0.9
TIY 32.33 339 eP 07 30.20 -1.0
Z 20s 0.60um 4.3Msz
N 10s 0.40um
BJI 33.33 345 eP 07 38.00 -1.7
Z 18s 0.50um 4.3Msz
SNY 33.90 356 eP 07 47.90 3.3X
Z 20s 0.80um 4.4Msz
N 18s 0.80um
HHC 35.43 340 eP 07 57.60 -0.3
MDJ 36.67 4 Pc 08 08.00 -0.1
GTA 39.50 327 eP 08 31.20 -0.8
6.0s 320.00nm 5.3mb X
Z 16s 0.40um 4.3MszX
GBA 48.53 281 P 09 46.00 1.4
MAIO 66.91 306 eP 11 54.00 0.5
TTA 77.29 27 P 12 55.00 0.6
0.9s 5.42nm 4.4mb
BRW 78.30 19 P 13 00.40 0.7
KDC 78.53 33 P 13 03.10 2.0
1.2s 103.03nm 5.6mb
IMA 78.67 24 P 13 02.80 0.8
1.0s 3.75nm 4.2mb
PMR 80.39 29 P 13 10.00 -1.1
0.9s 16.67nm 4.9mb
KLU 81.93 29 P 13 20.00 0.7
SOD 86.58 338 iP 13 42.50 0.0
KAF 87.85 332 eP 13 49.00 0.4
MBC 87.95 13 eP 13 50.00 1.1
0.8s 7.00nm 4.8mb
pP 14 04.00 47kmX
NUR 89.00 331 eP 13 54.00 -0.2
DAG 93.14 352 iPc 14 12.40 -0.7
1.0s 12.00nm 5.2mb
SLL 94.31 333 eP 14 18.20 -0.5
1.4s 47.70nm 5.7mb X
N82 95.00 334 P 14 21.10 -0.9
0.7s 2.10nm 4.7mb
YKA 95.79 24 eP 14 25.20 -0.3
0.8s 1.40nm 4.5mb

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ANMO  114.31  46 iPdiff16 04.80   15.7X
       1.2s     24.61nm
                 i      16 11.90
TUL   120.97  40 iPdiff16 23.00    4.6X
       0.8s     16.50nm
                 i      16 30.20
KIC   129.41 285 PKP    20 21.00   11.9X
ZOBO  163.41 121 PKP    21 04.00    1.1
     Z 22s      0.24um           4.5MszX
                 LR     52 06.00
     S.D. = 1.2  on  33 of  41 obs.
-------------------------------------
?  JAN  04, 1991  07h 02m 06.23± 1.58s
    0.232 S ±22.0km  127.348 E ±27.9km
   DEPTH =  33.0km  (normal)
   4.5mb (  2 obs.)
 HALMAHERA                          (267)

QIS    23.49 150 eP     07 15.00    0.9
MRWA   30.79 200 eP     08 21.00   -0.2
       0.4s     4.00nm          4.6mb
KLB    32.48 195 eP     08 36.00    0.0
MUN    33.29 197 iPc    08 42.20   -0.8
CHTO   33.71 306 e(P)   08 46.20   -0.6
       1.0s     4.50nm          4.3mb
NWAO   33.89 195 eP     08 49.00    0.8
ADE    36.15 164 e(P)   09 08.90    1.4
BFD    39.36 161 eP     09 32.00   -2.3
GBA    51.30 288 P      11 10.60    0.9
     S.D. = 1.3  on   9 of   9 obs.
-------------------------------------
*  JAN  04, 1991  07h 11m 27.44± 1.14s
    2.997 N ± 9.3km   79.158 W ± 9.9km
   DEPTH =  33.0km  (normal)
 SOUTH OF PANAMA                    ( 83)
      MD 4.7 (UVC).

ANCC    2.34  77 iPc    12 04.65    0.1
                eS     12 32.00
CUMC    2.40 148 iPc    12 05.21   -0.5
SALC    2.46  90 iPc    12 05.80   -0.5
HOQC    2.56  79 iPc    12 07.68   -0.2
CLMC    2.73  71 iPc    12 09.74   -0.4
SILC    2.83  96 eP     12 12.39    0.7
PURC    2.87 103 ePc    12 12.97    0.6
DIAC    2.97  84 iPc    12 14.13    0.6
                eS     12 48.80
BUGC    3.03  73 eP     12 14.17   -0.2
                eS     12 48.80
HOBC    3.30  66 ePc    12 17.72   -0.5
ZOBO   22.03 151 P      16 27.00    5.3X
YKA    64.93 343 P      22 06.00    0.2
     S.D. = 0.5  on  11 of  12 obs.
-------------------------------------
&  JAN  04, 1991  07h 44m 59.40s
   34.050 N          117.267 W
   DEPTH =   6.0km  (geophysicist)
 SOUTHERN CALIFORNIA                ( 43)
      <PAS-P>. ML 2.6 (PAS).

PEC     0.18 151 iPc    45 04.10    0.9
PLM     0.77 154 eP     45 23.70    8.8
ABL     1.80 297 eP     45 29.00   -2.4
      3 obs. associated
-------------------------------------
   JAN  04, 1991  08h 13m 49.49± 0.51s
   39.932 N ± 3.6km   30.194 E ± 4.6km
   DEPTH =  19.3 ±  3.8 km
 TURKEY                             (366)
      MD 4.0 (ATH), 3.8 (ISK).

GPA     0.37  14 iPg    13 55.80   -1.5
IZI     0.69 306 iPg    14 03.00    0.3
ALT     0.88 184 iPg    14 02.20   -3.8X
YLV     0.89 316 iPg    14 06.50    0.3
HRT     0.98 336 iPg    14 07.50   -0.1
GBZT    1.03 326 ePn    14 08.50    0.0
                iSg    14 26.50
DST     1.25 255 iPn    14 12.00    0.0
ISK     1.43 323 iPn    14 15.50    1.1
KCT     1.44 283 iPn    14 16.00    1.3
KHL     1.69 198 iPn    14 16.40   -1.9
BNT     1.79 284 iPn    14 20.20    0.4
EDC     1.83 284 ePn    14 20.00   -0.3
BBTK    1.98  92 eP     14 23.00    0.5
                iS     14 52.00
KGT     2.27 284 iPn    14 27.00    0.3
DMK     2.64 316 iPn    14 32.00    0.1
IZM     2.75 237 ePn    14 38.00    4.6X
EZN     2.98 269 iPn    14 36.50   -0.1
KAS     3.07  61 eP     14 15.00  -23.1X
PRK     3.11 259 iPnc   14 38.30   -0.2
ELL     3.19 184 ePn    14 40.50    0.7
ALN     3.31 288 iP     14 41.61    0.3
SMG     3.44 231 ePb    14 53.50   10.4X
RDO     3.75 290 iPnd   14 47.90    0.3
KSL     3.84 187 ePn    14 48.50   -0.3
KDZ     4.01 297 iPd    14 51.50    0.2
ARG     4.05 204 ePn    14 53.50    1.6
RZN     4.51 295 P      14 59.00    0.4
PAIG    5.01 272 iP     15 04.30   -1.1
SRS     5.17 285 eP     15 06.74   -1.0
SOH     5.30 282 eP     15 08.64   -1.0
KNT     5.69 285 eP     15 14.74   -0.4
VTS     5.90 299 eP     15 19.00    0.9
                eSg    16 26.00
VAY     5.96 286 ePn    15 42.00   23.1X
GRG     6.03 282 eP     15 19.44   -0.5
AGG     6.15 264 eP     15 21.00   -0.6
MLR     6.38 332 eP     15 39.00   14.1X
VRI     6.46 338 ePd    15 26.00    0.1
FNA     6.79 280 eP     15 29.96   -0.7
     S.D. = 0.8  on  32 of  38 obs.
-------------------------------------
?  JAN  04, 1991  10h 11m 46.43± 0.97s
   39.088 N ± 8.8km   27.657 E ±14.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)
      MD 2.6 (ISK).

IZM     0.75 204 ePg    12 01.20    0.0
                eSg    12 12.20
DST     0.91  55 iPn    12 04.00    0.1
BNT     1.28   9 iPn    12 10.00   -0.2
KGT     1.39 349 ePn    12 12.00    0.2
     S.D. = 0.3  on   4 of   4 obs.
-------------------------------------
%  JAN  04, 1991  10h 54m 15.34± 0.87s
   39.101 N ± 7.2km   27.612 E ± 9.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)
      MD 2.7 (ISK).

IZM     0.75 201 ePg    54 30.20    0.1
DST     0.94  57 iPn    54 33.00   -0.2
EZN     1.23 306 iPn    54 38.00   -0.2
BNT     1.28  11 iPn    54 39.30    0.3
KGT     1.37 350 iPn    54 40.50    0.1
     S.D. = 0.3  on   5 of   5 obs.
-------------------------------------
?  JAN  04, 1991  11h 07m 20.14± 5.13s
   48.341 N ±12.2km    1.322 W ±38.5km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                             (538)
      ML 2.0 (LDG).

GRR     0.31  81 Pg     07 26.70    0.1
                Sg     07 31.00
LPF     0.36 149 Pg     07 27.60    0.0
                Sg     07 32.40
FLN     0.70  53 Pg     07 34.00    0.1
                Sg     07 44.20
LDF     0.84  72 Pg     07 36.20   -0.1
                Sg     07 49.00
     S.D. = 0.1  on   4 of   4 obs.
-------------------------------------
?  JAN  04, 1991  11h 14m 24.19± 1.94s
   21.013 S ±32.7km  178.513 W ±23.1km
   DEPTH = 538.6 ± 18.0 km
   4.6mb (  6 obs.)
 FIJI ISLANDS REGION                (181)

SVA     4.06 315 ePc    15 46.10   -0.2
                eS     16 52.80
SGE     4.79 315 iPd    15 52.10   -0.3
MBU     4.80 326 ePd    15 52.20   -0.2
DZM    14.04 263 iPc    17 26.10    2.0
TOO    35.21 234 iPc    20 35.80    1.3
ASPA   43.94 257 iPd    21 44.50   -0.6
       0.8s    21.30nm          4.7mb
                iPcP   23 18.40
                eS     27 35.60
WRA    44.05 263 P      21 44.00   -2.0
       0.3s    13.20nm          4.9mb
FORR   48.61 247 eP     22 19.50   -1.2
       0.4s    20.00nm          5.0mb
PRS    78.52  44 eP     25 31.30    0.4
GCC    78.54  43 eP     25 31.30    0.4
SAO    78.73  43 eP     25 32.30    0.3
BRK    78.88  42 eP     25 32.70    0.0
BKS    78.90  42 ePc    25 33.70    0.9
       0.7s    11.00nm          4.4mb
MHC    78.95  43 eP     25 33.60    0.3
FRI    79.99  44 eP     25 38.70    0.2
CMB    80.16  43 eP     25 39.60    0.1
WDC    80.37  40 eP     25 40.70    0.2
MIN    80.79  40 eP     25 42.80    0.0
ALQ    88.10  51 eP     26 18.00   -0.7
       1.1s    5.06nm           4.3mb
LRM    89.41  40 eP     26 23.90   -0.7
CHTO   89.97 290 eP     26 28.80    1.4
       1.0s    4.00nm           4.3mb
SES    92.57  36 eP     26 38.00   -0.7
NB2   139.43 353 PKP    32 43.40   -7.9X
       1.1s    7.90nm
HFS   139.97 351 ePKP   32 42.60   -9.6X
       0.3s    1.30nm
KSP   148.03 342 iPKPd  33 09.40    3.3X
MLR   148.39 326 ePKP   33 13.50    6.5X
CLL   148.45 346 iPKP   33 10.30    3.6X
       0.9s    24.00nm
                 i     33 14.90
BRG   148.63 345 iPKP   33 10.90    3.9X
       1.5s    32.00nm
                 i     33 16.50
MOX   149.37 347 ePKP   33 12.00    3.9X
KIC   164.23 157 PKP    33 26.40   -0.9
     S.D. = 1.0  on  23 of  30 obs.
-------------------------------------
%  JAN  04, 1991  12h 29m 34.85± 1.02s
    4.171 N ± 8.0km   76.130 W ±13.8km
   DEPTH =  33.0km  (normal)
 COLOMBIA                           (103)
      MD 3.4 (UVC).

HOBC    0.18 358 iPd    29 41.39   -0.1
                eS     29 48.90
BUGC    0.30 205 ePc    29 43.83    1.0
                eS     29 53.20
CLMC    0.52 236 iPd    29 46.49    0.6
                eS     29 57.80
HOQC    0.86 216 eP     29 50.28   -0.5
DIAC    0.88 184 eP     29 50.76   -0.2
ANCC    0.98 228 eP     29 51.78   -0.6
                eS     30 07.00
SALC    1.32 205 eP     29 56.87   -0.4
                eS     30 15.90
SILC    1.49 188 eP     29 59.45   -0.5
PURC    1.85 187 eP     30 05.90    0.6
     S.D. = 0.7  on   9 of   9 obs.
-------------------------------------
*  JAN  04, 1991  12h 55m 18.37± 0.73s
   17.808 S ±12.3km  167.590 E ± 8.6km
   DEPTH =  10.0km  (geophysicist)
   4.4mb (  2 obs.)  4.0Msz (  1 obs.)
 VANUATU ISLANDS                    (186)

BKM     0.64  78 iP     55 29.50   -1.7
PVC     0.69  85 iPc    55 33.50    1.5
                iS     55 44.00
DZM     4.38 194 iPc    56 27.30    0.8
                iS     57 17.50
HNR    11.15 317 eP     58 03.00    2.0
VSG    11.44 317 eP     58 04.00   -0.9
RMQ    19.45 240 iPc    59 51.80    3.6X
ASPA   31.99 254 iPc    01 45.20   -2.0
       0.8s    9.90nm           4.8mb
     Z 20s     0.30um           4.0Msz
                 i     01 55.10
                eS     05 54.90
ANP    61.95 312 eP     05 59.20   18.1X
YKA   100.12  27 ePdiff09 04.90   -0.4
       0.9s    0.40nm           4.0mb
MZZ   130.11 238 ePdiff11 30.00    9.9X
                iSg    11 39.00
SQTA  144.83 332 i(PKP)15 06.50    9.1X
       0.7s    4.60nm
CDF   145.52 337 ePKP   14 57.80   -0.7
       0.7s    9.90nm
BSF   146.18 337 ePKP   15 00.20    0.5
HAU   146.20 337 ePKP   15 00.40    0.8
```

04d 13h

	0.6s	5.40nm				
BCAO	146.93	250	ePKPd	15	12.00	10.3X
	0.7s	9.00nm				
			ic	15	22.10	
LOR	147.72	339	ePKP	15	04.20	2.2X
SSF	148.01	339	ePKP	15	05.10	2.6X
	0.9s	14.75nm				
LPG	148.10	334	ePKP	15	07.10	4.1X
	0.7s	5.50nm				
	S.D. = 1.5	on	10 of	18	obs.	

• JAN 04, 1991 14h 00m 14.92± 1.17s
38.500 N ± 7.0km 25.968 E ±13.0km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

PRK	0.78	18	iPd	00	30.50	0.4
			eS	00	42.50	
IZM	1.02	95	iPn	00	34.90	0.6
SMG	1.05	139	eP	00	34.00	-0.6
			eS	00	48.00	
EZN	1.35	12	iPn	00	28.60	-11.2X
APE	1.47	194	eP	00	41.80	0.3
			eS	01	00.00	
KGT	2.21	28	iPn	00	51.40	-0.7
	S.D. = 0.9	on	5 of	6	obs.	

JAN 04, 1991 15h 21m 36.18± 0.51s
23.367 S ± 4.8km 66.595 W ± 4.9km
DEPTH = 205.7 ± 5.2 km
5.0mb (14 obs.)
JUJUY PROVINCE, ARGENTINA (128)

ANT	3.52	264	iPc	22	32.50	-0.3
			iS	23	12.00	
CYA	5.11	172	iPd	22	54.00	1.3
CCH	5.97	4	P	23	05.60	1.5
CNCB	6.65	348	Pd	23	15.00	1.8
			S	24	26.00	
LPB	6.94	348	Pd	23	17.00	0.1
			S	24	28.00	
ZOBO	7.21	348	Pd	23	21.00	0.5
			eS	28	40.00	
RTLL	8.10	191	ePc	23	29.60	-2.3
ARE	8.27	325	eP	23	31.00	-3.2X
			eS	24	58.00	
MDZ	9.69	191	e(P)	23	50.00	-2.3
PEL	10.38	199	eP	24	00.00	-1.3
ITB1	11.23	99	eP	24	13.60	1.5
ITB	11.41	100	e(P)	24	15.50	1.1
ITB7	11.47	101	e(P)	24	15.00	-0.2
PPD	14.17	88	eP	24	49.50	0.3
			e	24	52.90	
			e	24	56.40	
NNA	14.94	318	iPd	25	00.20	1.5
	0.9s	28.57nm			4.7mb	
			e	27	35.00	
VAO	18.05	93	iPc	25	34.40	-0.4
			ipP	25	56.00	
			e	26	57.20	
			e	28	42.60	
BAO	19.14	70	ePc	25	46.00	-0.1
BMA	20.66	93	ePc	26	01.80	0.5
PURC	27.25	338	eP	27	04.69	0.8
SILC	27.58	339	eP	27	06.85	0.1
SALC	27.97	338	iPd	27	09.53	-0.4
DIAC	28.10	339	eP	27	11.48	0.3
PDCR	28.22	72	eP	27	10.30	-1.7
SOB1	28.33	64	eP	27	14.10	1.0
HOOC	28.41	339	eP	27	12.58	-1.5
CLMC	28.77	339	ePc	27	15.96	-1.2
HOBC	29.08	340	iPd	27	17.47	-2.3
SDV	32.30	353	eP	27	45.60	-2.4
TOV	33.10	354	eP	27	51.10	-3.6X
UPA	34.55	337	iPc	28	08.50	1.5
	1.0s	114.00nm			5.5mb	
PRM	59.07	345	iP	31	15.50	-1.4
LHS	59.09	346	iP	31	15.80	-1.2
TKL	60.91	344	iP	31	26.80	-2.6
RSCP	61.34	342	iP	31	30.20	-2.1
BLA	61.64	347	iP	31	33.40	-0.9
	0.9s	18.59nm			4.9mb	
NAV	61.82	347	iP	31	34.10	-1.3
CVL	62.03	349	iP	31	35.50	-1.2
NA2	62.06	350	iP	31	35.40	-1.5
UYO	63.05	334	iPc	31	42.50	-1.1
ELC	63.98	340	iP	31	46.70	-2.8
FVM	65.00	339	iP	31	53.90	-2.2
TUL	65.11	334	ePc	31	55.00	-1.8
	1.2s	61.60nm			5.3mb	
SPA	66.77	180	iPd	32	09.20	1.9
	0.9s	22.73nm			4.9mb	
LIC	66.89	72	P	32	07.12	-1.4
TIC	67.09	72	P	32	08.40	-1.5
	0.8s	15.50nm			4.8mb	
KIC	67.20	72	Pc	32	09.32	-1.2
	0.6s	30.00nm			5.2mb	
			S	40	45.00	
ALQ	69.23	326	iPd	32	23.00	0.2
	1.0s	47.50nm			5.2mb	
KUK	70.97	74	eP	32	33.00	-0.5
GOL	72.43	330	iP	32	41.90	-0.1
	1.0s	17.13nm			4.7mb	
GLA	72.54	319	eP	32	43.00	0.5
PLM	73.99	318	eP	32	51.00	-0.1
PEC	74.53	318	iP	32	54.50	0.5
RVR	74.73	318	eP	32	55.00	-0.1
GSC	75.28	319	eP	32	59.00	0.7
MWC	75.31	318	eP	33	00.00	1.4
SBB	75.48	318	eP	33	00.00	0.6
DAU	75.85	326	iP	33	02.00	0.3
CLC	76.10	319	eP	33	03.00	0.2
ABL	76.44	318	iP	33	05.30	0.3
DUG	76.50	325	iP	33	05.70	0.7
ISA	76.52	319	eP	33	06.00	0.8
SYP	76.70	317	eP	33	07.00	0.7
BW06	76.80	329	iP	33	06.50	-0.3
	0.8s	11.90nm			4.7mb	
BLP	76.99	317	eP	33	08.50	0.9
BCH	77.19	318	eP	33	10.00	1.0
TNP	77.42	321	iP	33	11.00	0.8
	1.0s	20.83nm			4.8mb	
BONR	77.96	321	iP	33	14.00	0.7
FRI	78.15	319	eP	33	13.50	-0.5
PRI	78.18	318	eP	33	15.70	1.4
PTI	78.24	327	iP	33	15.20	0.6
KVN	78.58	322	eP	33	17.00	0.4
LLA	78.65	318	eP	33	17.30	0.5
PRS	78.73	318	eP	33	18.20	1.0
CMB	79.24	320	eP	33	20.50	0.5
ARN	79.49	318	eP	33	22.00	0.7
MHC	79.55	318	eP	33	29.90	8.2X
GCC	79.57	318	eP	33	22.70	1.1
LRM	80.46	329	iPd	33	27.50	1.0
ORV	80.89	320	eP	33	29.90	1.3
MIN	81.46	321	eP	33	35.00	3.3X
WDC	82.16	320	eP	33	34.50	-0.6
LBFM	82.28	321	iP	33	36.20	0.2
SES	83.29	333	ePd	33	40.80	0.1
	0.7s	28.00nm			5.1mb	
NEW	84.43	329	iP	33	46.00	-0.5
	0.9s	19.74nm			4.9mb	
DPW	84.68	328	eP	33	48.20	0.4
LON	85.75	326	eP	33	53.00	-0.1
BMW	86.31	325	eP	33	56.40	0.5
BUL	86.75	110	iPd	34	02.50	3.8X
GMW	86.77	326	eP	33	58.00	0.0
FRB	86.83	359	eP	33	57.00	-0.8
PGC	87.82	326	ePc	34	03.80	0.9
KRI	88.95	108	iPd	34	09.10	-0.1
YKA	93.66	340	P	34	29.70	0.0
KLU	105.33	331	ePdiff	35	22.00	-0.4
FBA	107.26	334	ePdiff	35	30.70	0.0
	0.8s	6.90nm			5.9mb	
ASPA	129.19	204	ePKP	40	21.20	-0.7
	0.9s	11.40nm				
PMG	133.62	229	ePdiff	37	21.00	-8.0X
YYYY	136.67	231	ePKP	40	25.00	-11.5X
GBA	144.62	99	PKP	40	50.00	-0.4
HYB	146.86	94	ePKP	40	55.00	0.9
	0.8s	38.50nm				
			e	41	02.00	
TRT	149.11	179	ePKPd	41	01.70	4.0X
WMQ	150.62	40	iPKPd	41	06.00	6.7X
GKN	153.70	74	PKP	41	04.80	0.5
	1.1s	15.00nm				
DMN	154.13	75	PKP	41	05.56	0.5
KKN	154.28	74	PKP	41	05.82	0.7
PKI	154.40	75	PKP	41	06.88	1.4
GUN	154.80	74	PKP	41	06.74	0.7
MAT	154.90	307	ePKP	41	14.00	8.6X
GTA	160.28	33	PKPd	41	13.40	1.4
			e	41	54.20	
HHC	162.50	5	ePKP	41	17.00	2.9X
TIY	165.68	3	ePKP	41	20.00	2.9X
CHTO	165.77	106	ePKP	41	18.90	1.3
	1.0s	4.00nm				
XAN	168.66	19	iPKPc	41	21.00	1.7
	S.D. = 1.1	on	101 of	113	obs.	

• JAN 04, 1991 16h 03m 04.11± 1.10s
5.813 S ±13.2km 130.907 E ±27.1km
DEPTH = 33.0km (normal)
4.2mb (2 obs.)
BANDA SEA (280)

MTN	6.99	178	eP	04	49.90	3.0X
KNA	10.10	192	iPc	05	29.90	-0.1
	0.2s	23.00nm			6.1mb	X
			eS	07	12.00	
QIS	16.92	151	eP	07	01.00	1.0
			eS	09	52.00	
ASPA	17.98	171	eP	07	11.60	-1.8
	0.6s	12.90nm			4.2mb	
			eS	10	06.80	
WARB	20.66	191	eP	07	45.00	1.2
			eS	11	22.00	
CHG	39.89	309	eP	10	38.00	1.1
CHTO	39.89	309	eP	10	38.00	1.1
	1.0s	4.75nm			4.2mb	
			pP	10	51.50	51kmX
GUN	54.87	310	P	12	33.98	-0.4
	0.7s	38.00nm			5.6mb	X
PKI	55.06	309	P	12	34.94	-0.8
KKN	55.27	310	P	12	36.64	-0.5
DMN	55.31	309	P	12	37.02	-0.5
GKN	55.87	309	P	12	40.90	-0.4
	S.D. = 1.1	on	11 of	12	obs.	

JAN 04, 1991 17h 26m 15.48± 0.44s
26.656 S ± 5.0km 176.373 W ± 7.8km
DEPTH = 33.0km (normal)
5.0mb (11 obs.)
SOUTH OF FIJI ISLANDS (171)

SVA	9.75	330	ePc	28	36.80	0.3
VUN	9.84	330	ePc	28	36.10	-1.7
OVA	9.99	332	eP	28	38.40	-1.4
KRO	10.09	336	eP	28	30.20	-11.0X
SGE	10.45	329	eP	28	47.30	1.0
NDF	10.54	326	eP	28	48.10	0.8
MBU	10.66	334	eP	28	47.20	-1.8
NDE	10.79	337	eP	28	49.00	-1.9
PUZ	12.25	200	eP	29	09.50	-1.0
AFI	13.39	20	P	29	16.20	-9.6X
			eS	31	31.00	
PGZ	15.20	202	eP	29	47.90	-1.4
MNG	15.48	204	eP	29	48.70	-4.2X
			eS	32	36.80	
RAR	16.11	74	P	30	00.00	-1.1
			S	32	43.00	
BLW	16.14	203	eP	29	59.90	-1.5
MRW	16.30	205	eP	30	03.20	-0.2
DZM	16.31	283	iPd	30	09.20	5.5X
WEL	16.32	204	eP	30	07.00	3.3X
			S	32	59.00	
THZ	17.46	208	eP	30	19.10	1.0
			eS	33	25.60	
KHZ	17.76	205	eP	30	18.50	-3.2X
			S	33	30.50	
LTZ	18.57	207	eP	30	30.80	-0.9
COO	28.08	255	eP	32	10.00	3.8X
HNR	28.20	303	(P)	32	09.00	1.7
RMQ	31.13	262	eP	32	36.00	2.6X
	0.5s	118.00nm			6.0mb	
CMS	33.28	253	eP	32	54.00	1.9
TOO	33.88	242	iPd	33	00.20	2.9X
QLP	35.12	261	eP	33	09.00	1.0
			e	33	26.00	
BFD	36.17	243	eP	33	20.00	3.2X
PMG	38.50	290	eP	33	36.00	-0.6
ADE	39.19	247	iPc	33	44.00	1.7
OIS	40.64	269	eP	33	54.00	-0.3
ASPA	44.88	262	iPc	34	29.00	0.1
	0.8s	70.20nm			5.6mb	
WRA	45.54	268	P	34	33.00	-1.1
	0.5s	79.50nm			5.9mb	
FORR	48.45	251	iPc	34	57.50	0.7
	0.4s	127.00nm			6.3mb	X
WARB	50.66	257	eP	35	13.30	-0.5
KNA	51.95	270	eP	35	22.50	-1.2

KLB	56.98	248	iPd	36	00.20	-0.1
MUN	58.18	247	iPd	36	08.90	0.2
MRWA	59.04	251	eP	36	15.00	0.2
	0.4s	2.00nm			4.6mb	
SPA	63.50	180	iPc	36	52.30	7.7X
	0.8s	11.67nm			5.0mb	
TRT	69.62	272	ePc	37	23.10	-0.8
PRS	81.30	42	eP	38	41.30	11.4X
FRI	82.74	42	eP	38	49.40	12.1X
CMB	83.02	41	eP	38	37.50	-1.4
	1.0s	0.90nm			3.8mb	X
WDC	83.50	38	eP	38	49.30	8.1X
TNP	84.95	43	iP	38	50.10	1.3
	1.0s	7.25nm			4.8mb	
ALQ	90.11	50	eP	39	17.50	3.7X
	1.0s	7.50nm			4.9mb	
			e	41	30.00	
ANMO	90.11	50	eP	39	15.80	2.0
	1.2s	3.91nm			4.6mb	
BJI	91.29	315	eP	39	20.00	1.2
BW06	92.44	43	eP	39	23.60	-0.8
	1.0s	3.75nm			4.8mb	
KMI	93.43	296	Pc	39	31.00	1.7
CHTO	93.70	289	eP	39	31.00	0.7
	0.8s	11.90nm			5.4mb	
			pP	39	43.50	41kmX
FBA	93.92	12	eP	39	31.90	1.5
	1.1s	0.90nm			4.1mb	
YKA	101.46	25	ePdiff	40	18.50	13.9X
	0.8s	0.40nm				
OUE	124.83	290	ePKP	45	16.20	2.0X
KEV	134.77	349	ePKP	45	40.00	8.4X
KAF	141.45	343	iPKP	45	46.70	2.5X
	0.4s	2.00nm				
NUR	143.23	343	ePKP	45	48.70	1.4
NAO	145.49	354	PKP	45	51.10	-0.1
	0.8s	9.30nm				
HFS	145.82	351	ePKP	45	51.50	-0.3
	1.2s	21.80nm				
KAS	151.20	308	ePKP	46	08.50	7.6X
HRI	151.48	291	ePKP	46	09.50	7.9X
JVI	151.90	288	ePKP	46	10.50	8.3X
B8TK	152.45	306	iPKPc	46	11.00	8.2X
RMN	152.55	285	ePKP	46	11.50	8.3X
KRA	153.48	336	ePKP	46	12.10	8.4X
			e	46	22.10	
BCAO	153.70	215	iPKPc	46	16.70	11.5X
	0.3s	20.00nm				
			id	46	30.10	
KSP	153.98	342	iPKP	46	14.00	9.6X
			e	46	33.70	
CLL	154.37	346	ePKP	46	14.00	9.1X
			e	46	41.00	
BRG	154.56	345	iPKP	46	15.00	9.8X
	1.2s	17.00nm				
			e	46	39.00	

S.D. = 1.2 on 40 of 69 obs.

JAN 04, 1991 20h 03m 10.95± 0.52s
41.090 N ± 5.4km 22.493 E ± 4.1km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.7 (SKO).

GRG	0.15	208	iPc	03	14.52	0.0
			eS	03	17.72	
VAY	0.24	14	iPg	03	15.00	-1.0
			i	03	17.70	
			iSg	03	18.40	
KNT	0.31	77	iPc	03	17.78	0.3
			iS	03	22.78	
THE	0.58	142	ePd	03	22.56	-0.1
			iS	03	30.72	
SOH	0.70	112	iPd	03	25.02	0.1
			iS	03	35.50	
SRS	0.83	88	ePd	03	27.20	0.2
			iS	03	39.48	
FNA	0.90	250	ePd	03	27.44	-0.8
SKO	1.18	318	ePg	03	33.90	0.9
OHR	1.28	271	ePg	03	35.20	0.4
			e	03	51.00	

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

? JAN 04, 1991 20h 13m 00.04± 2.92s
34.647 N ±32.7km 26.513 E ± 8.2km
DEPTH = 10.0km (geophysicist)
CRETE (370)

MD 3.8 (ATH).

NPS	0.96	310	iPbc	13	18.20	-0.1
			eSb	13	36.50	
VAM	2.04	292	ePn	13	35.00	0.1
ARG	2.05	40	ePn	13	35.80	0.9
APE	2.54	342	ePb	13	46.90	4.8X
KSL	2.91	59	ePn	13	46.70	-0.5
CIN	3.21	23	eP	13	51.00	-0.5

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

• JAN 04, 1991 20h 16m 46.73± 1.39s
19.327 N ±17.9km 97.174 E ±13.9km
DEPTH = 10.0km (geophysicist)
BURMA (296)

CHG	1.75	107	iPn	17	16.50	-0.8
			iSg	17	38.30	
CHTO	1.75	107	iPnd	17	16.90	-0.4
BDT	2.70	140	ePg	17	38.10	7.1X
			eSg	17	44.00	
NST	4.60	142	ePn	18	05.00	7.0X
			ePg	18	24.00	
			eSg	19	21.70	
LOE	4.73	113	ePn	18	01.00	1.2
			ePg	18	05.00	
			eSg	18	53.00	
KMI	7.74	41	eP	18	42.50	0.2
			S	19	55.00	
GUN	13.41	312	P	20	00.00	-0.1

S.D. = 1.1 on 5 of 7 obs.

& JAN 04, 1991 21h 05m 35.52s
60.058 N 153.756 W
DEPTH = 160.9km
SOUTHERN ALASKA (2)
<AEIC>.

PD8	0.35	219	eP	05	56.62	0.5
			eS	06	13.36	
OPT	0.49	147	iP	05	57.54	-0.8
			eS	06	14.43	
RS2	0.64	50	iP	05	58.49	-0.9
RSO	0.64	51	iP	05	58.46	-0.9
NCT	0.65	39	eP	05	58.42	-0.9
RDN	0.67	47	iP	05	58.64	-0.8
			eS	06	16.42	
REF	0.68	50	iP	05	58.65	-0.9
AUH	0.71	167	eP	05	59.58	0.0
AUP	0.72	166	eP	05	58.91	-0.8
AUE	0.73	164	eP	05	58.79	-0.8
RDT	0.85	52	iP	05	59.56	-1.0
MCNL	0.92	199	eP	05	59.79	-1.2
HOM	1.14	110	eP	06	02.13	-0.6
			eS	06	22.92	
NNL	1.23	90	eP	06	03.53	-0.1
CKL	1.34	31	iP	06	04.14	-0.6
CNPM	1.38	112	eP	06	03.67	-1.4
			eS	06	25.59	
BGL	1.38	28	iP	06	04.79	-0.4
SVW	1.40	320	eP	06	04.47	-0.8
SPU	1.41	36	iP	06	04.34	-1.0
NKA	1.43	60	eP	06	05.70	0.2
BRLK	1.48	100	eP	06	04.71	-1.3
			eS	06	27.22	
CGLM	1.52	34	eP	06	05.61	-1.0
NCG	1.56	30	iP	06	06.77	-0.2
SYI	1.61	154	eP	06	05.45	-1.9
			eS	06	28.97	
SLKM	1.82	74	eP	06	07.92	-1.8
SUA	2.04	45	eP	06	10.88	-1.4
SEW	2.16	87	eP	06	11.59	-1.9
SKT	2.21	28	eP	06	13.71	-0.5
PMS	2.38	58	eP	06	13.72	-2.5
CUT	2.90	34	eP	06	21.35	-1.1
LTI	2.96	88	eP	06	21.27	-2.0
KNIM	3.02	82	eP	06	21.71	-2.4

32 obs. associated

% JAN 04, 1991 21h 15m 51.99± 0.48s
42.146 N ± 3.9km 12.925 E ± 5.7km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

MNS	0.30	323	P	15	58.50	0.2
			eSg	16	03.70	
RMP	0.37	206	P	15	59.60	-0.1
			eSg	16	05.50	
AZI	0.41	112	P	16	00.80	0.4
			eSg	16	07.50	
RDP	0.42	202	P	16	00.80	0.3
			eSg	16	07.00	
SDI	0.80	123	P	16	07.00	-0.5
			eSg	16	19.20	
ASS	0.94	348	P	16	10.50	0.5
			eSg	16	25.30	
ARV	1.35	1	P	16	17.00	0.1
			eSg	16	35.60	
CRE	1.65	335	P	16	20.50	-0.6
			eSg	16	42.00	
SFI	1.94	336	P	16	25.00	-0.3
			eSg	16	49.00	

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

? JAN 04, 1991 22h 47m 58.74± 4.17s
3.674 N ±10.2km 75.233 W ±35.5km
DEPTH = 33.0km (normal)
COLOMBIA (103)
MD 3.8 (UVC).

DIAC	1.03	248	eP	48	16.78	-0.3
			eS	48	32.90	
BUGC	1.04	282	ePc	48	17.33	0.1
			eS	48	33.80	
HOBC	1.13	307	iPc	48	18.23	-0.1
CLMC	1.34	279	iPc	48	22.10	0.6
			eS	48	42.20	
HOOC	1.41	262	eP	48	22.24	-0.4
SILC	1.48	228	iPc	48	23.77	0.1
			eS	48	45.10	
SALC	1.62	245	eP	48	26.13	0.7
ANCC	1.64	265	eP	48	25.14	-0.5
PURC	1.75	220	eP	48	27.62	-0.1
			eS	48	52.10	

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

• JAN 05, 1991 00h 16m 10.35± 0.95s
56.301 S ±19.1km 27.014 W ±10.7km
DEPTH = 33.0km (normal)
5.1mb (3 obs.)
SOUTH SANDWICH ISLANDS REGION (153)

BMA	35.86	332	ePc	23	09.30	0.4
VAO	36.35	328	eP	23	13.90	0.8
PEL	37.81	289	iPd	23	25.00	-0.2
	0.6s	33.33nm			5.4mb	
PPD	38.65	322	eP	23	31.70	-0.5
BAO	43.63	330	ePd	24	13.40	0.1
PDCR	44.67	343	eP	24	20.10	-1.5
SOB1	48.22	341	eP	24	50.90	1.2
CCH	48.74	307	P	24	54.30	0.3
CNC8	50.08	305	P	25	05.50	0.9
LPB	50.37	305	Pc	25	06.20	-0.4
	1.0s	80.00nm			5.7mb	X
ZOBO	50.61	305	Pd	25	08.90	0.2
	Z 24s	0.19um			4.0MszX	
			LR	41	10.00	
NNA	58.45	299	iP	26	04.50	-0.8
	0.1s	333.33nm			7.4mb	X
LIC	64.88	24	P	26	47.82	-0.5
KIC	65.08	25	P	26	49.10	-0.5
TIC	65.29	24	P	26	50.38	-0.6
BCAO	71.01	49	iPd	27	28.10	1.4
	0.3s	8.00nm			5.3mb	
			id	27	43.20	
WRA	102.44	162	Pdiff	30	11.00	6.8X
	1.2s	0.90nm			4.3mb	
FRB	123.92	339	ePKP	35	05.00	0.0
YKA	136.42	318	ePKP	35	27.10	-1.8X
	0.5s	1.40nm				
WMQ	137.86	79	ePKP	35	51.50	19.1X
MBC	144.25	336	ePKPc	35	41.60	-1.0
	0.6s	4.00nm				
INK	146.06	320	ePKP	35	46.50	0.7
BJI	151.00	108	ePKP	36	12.00	17.6X

S.D. = 0.8 on 19 of 23 obs.

? JAN 05, 1991 00h 27m 52.30± 2.49s
44.480 N ±46.7km 148.963 E ±34.8km
DEPTH = 33.0km (normal)
4.5mb (3 obs.)
KURIL ISLANDS (221)

KUSJ	3.38	247	P	28	42.40	-1.5

05d 00h

		S	29	19.70	
MAT	11.39	230 (P)	30	32.00	-3.7X
CN2	16.89	276 eP	31	51.20	3.6X
HHC	27.58	276 eP	33	44.00	5.7X
TIY	28.17	269 eP	33	48.00	4.3X
BTO	28.77	276 eP	33	56.00	7.0X
LZH	35.05	272 P	34	45.00	0.8
CD2	37.78	265 eP	35	06.40	-0.6
CHTO	48.74	255 eP	36	47.40	11.7X
	1.0s	4.00nm			
GUN	52.27	274 P	37	02.60	-0.5
PKI	52.81	274 P	37	09.00	1.9
DMN	53.00	274 P	37	09.40	1.0
GKN	53.10	275 P	37	09.80	0.8
YKA	54.47	35 eP	37	18.20	-0.1
	0.6s	2.50nm		4.4mb	
FRB	68.11	17 eP	38	51.00	0.6
HFS	69.51	338 eP	38	57.80	-1.3
	0.4s	3.00nm		4.7mb	
NAO	69.67	340 P	38	58.90	-1.2
	0.8s	3.30nm		4.5mb	
KRA	75.92	329 eP	39	37.20	0.2
PRU	77.88	332 eP	39	48.00	0.1
S.D. = 1.1 on 13 of 19 obs.					

JAN 05, 1991 00h 51m 16.58± 0.45s
34.457 N ± 4.4km 31.622 E ± 3.8km
DEPTH = 20.3 ± 4.5 km
3.6mb (1 obs.)
CYPRUS (372)

PPCY	0.73	54 ePc	51	30.80	0.3
CSS	1.50	70 eP	51	41.20	-1.2
		eSn	52	03.50	
FAM	2.03	74 eP	51	50.50	0.3
KSL	2.35	315 eP	51	56.20	1.5
		eS	52	26.00	
ELL	2.68	329 iPn	52	02.00	2.5
BCK	3.11	345 iPn	52	07.50	1.9
ARG	3.35	303 iPc	52	09.10	0.1
BHL	3.39	98 Pn	52	08.00	-1.5
		Sn	52	43.00	
ATZ	3.45	117 eP	52	09.40	-1.0
ZNT	3.61	127 eP	52	10.30	-2.4
		eS	52	49.70	
MML	3.76	121 eP	52	13.40	-1.4
DHLJ	3.77	196 Pc	52	30.71	15.8X
YER	3.81	316 iPn	52	16.00	0.5
SHMJ	3.86	115 Pc	52	16.20	0.0
SHMJ	3.86	115 Pc	52	17.14	0.9
BURJ	4.14	121 Pc	52	20.77	0.5
SALJ	4.19	125 Pc	52	21.53	0.6
JARJ	4.24	120 Pc	52	22.57	0.9
CIN	4.25	319 iPc	52	22.00	0.3
DSI	4.27	131 eP	52	21.40	-0.6
KFNJ	4.27	126 Pc	52	22.40	0.4
KFNJ	4.27	126 Pc	52	22.81	0.8
MASJ	4.38	127 Pc	52	24.43	0.7
MKRJ	4.45	130 Pc	52	25.28	0.7
KOT	4.52	178 ePn	52	25.50	0.0
		eSn	53	13.00	
LISJ	4.57	134 Pc	52	26.82	0.7
HLW	4.59	183 ePc	52	27.00	0.4
		eS	53	15.70	
RMN	4.69	146 eP	52	27.90	-0.3
ALT	4.75	346 ePn	52	29.70	0.8
MDSJ	4.80	125 Pd	52	29.93	0.3
QTRJ	4.85	129 (P)	52	30.75	0.4
NPS	5.01	281 eP	52	32.80	0.4
		eS	53	29.00	
JRDJ	5.05	136 (P)	52	34.22	1.1
SMG	5.05	311 eP	52	33.00	0.0
IZM	5.27	319 iPn	52	35.60	-0.7
GAZ	5.29	58 iPn	52	34.00	-2.4
CSTJ	5.40	127 Pc	52	36.20	-1.9
SHBJ	5.42	112 Pc	52	38.65	0.2
BBTK	5.45	9 eP	52	52.00	13.2X
APE	5.60	299 eP	52	40.20	-0.6
DST	5.67	336 ePn	52	42.00	0.2
IZI	6.11	344 eP	52	48.00	-0.1
VAM	6.17	281 eP	52	50.80	2.0
PRK	6.42	320 eP	52	52.00	-0.4
EZN	6.83	323 eP	52	57.00	-1.0
KGT	6.90	331 iP	52	58.60	-0.5
VLI	7.43	290 eP	53	04.00	-2.5
ITM	8.33	292 eP	53	17.20	-2.0
OHR	10.83	311 eP	53	54.30	0.7
SKO	10.97	316 eP	53	38.30	-17.1X
SGO	14.30	300 P	54	36.60	-3.3X
PTJ	16.52	318 eP	55	09.10	0.5
CRE	17.78	307 P	55	30.00	5.5X
SFI	17.97	308 P	55	32.00	5.4X
KHC	19.82	323 eP	55	47.50	-1.3
PRU	19.95	326 eP	55	47.50	-2.5
		e	56	02.50	
VAI	20.78	310 P	56	02.00	3.4X
BRG	20.84	327 eP	56	12.90	13.6X
	1.2s	15.00nm			
CLL	21.57	327 e(P)	56	11.00	4.3X
MOX	21.77	324 eP	56	20.00	11.2X
BNI	21.82	306 P	56	10.00	0.5
TIC	43.67	239 Pd	59	21.60	-0.2
KIC	43.67	239 Pd	59	21.60	-0.2
LIC	43.97	239 Pd	59	24.00	-0.2
GKN	45.36	83 P	59	37.20	1.6
KKN	45.97	83 P	59	42.00	1.6
PKI	46.16	83 P	59	43.40	1.3
GUN	46.42	83 P	59	38.60	-5.5X
YKA	79.64	345 eP	03	22.60	-1.0
	0.6s	0.40nm		3.6mb	
S.D. = 1.2 on 58 of 69 obs.					

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* JAN 05, 1991 02h 06m 42.16± 0.76s
64.036 N ± 6.7km 148.872 W ±12.7km
DEPTH = 33.0km (normal)
CENTRAL ALASKA (1)
ML 3.4 (PMR).

FBA	0.99	28 iPd	06	59.80	0.1
TOA	2.30	146 eP	07	18.30	-0.2
PWA	2.44	191 eP	07	20.30	-0.2
PMS	2.82	187 iP	07	26.30	0.4
IMA	2.88	317 eP	07	26.80	-0.1
TTA	3.39	254 e(P)	07	41.20	7.1X
SVW	4.29	230 e(P)	07	54.70	8.0X
S.D. = 0.4 on 5 of 7 obs.					

% JAN 05, 1991 03h 34m 51.21± 2.38s
44.824 N ±19.8km 2.385 E ±12.8km
DEPTH = 10.0km (geophy$icist)
FRANCE (538)
ML 2.2 (LDG).

CAF	0.25	294 Pg	34	56.40	-0.1
		Sg	35	02.80	
RJF	0.78	308 Pg	35	06.80	0.4
		Sg	35	19.80	
LPO	0.87	261 Pg	35	07.40	-0.5
		Sg	35	20.00	
LFF	1.18	276 Pg	35	13.60	0.5
		Sg	35	32.00	
MAF	1.40	5 Pg	35	15.20	-1.6
		Sg	35	36.20	
TCF	1.47	355 Pg	35	18.30	0.5
		Sg	35	38.80	
SMF	2.09	29 Pg	35	27.50	0.8
		Sg	35	54.00	
S.D. = 1.0 on 7 of 7 obs.					

JAN 05, 1991 03h 41m 09.51± 0.76s
37.153 N ± 7.3km 26.494 E ± 7.7km
DEPTH = 23.9 ± 9.3 km
DODECANESE ISLAND$ (369)
MD 3.6 (ATH).

SMG	0.62	26 ePg	41	21.50	-0.1
		eSg	41	33.50	
APE	0.77	264 ePg	41	23.20	-1.1
		eSg	41	35.00	
CIN	1.34	70 eP	41	31.00	-1.9
IZM	1.38	26 ePn	41	34.00	0.5
YER	1.43	90 iPn	41	31.60	-2.5
ARG	1.61	125 ePb	41	37.60	0.9
NPS	2.02	201 ePn	41	42.00	-0.6
PRK	2.10	355 ePb	41	49.00	5.2X
VAM	2.54	227 ePg	41	56.20	6.1X
EZN	2.67	357 ePn	41	52.00	0.1
KSL	2.69	112 ePg	41	58.20	6.0X
ELL	2.76	97 ePn	41	53.00	-0.4
VLI	2.88	262 ePg	42	03.80	8.9X
DST	2.97	34 ePn	42	00.00	3.9X
KGT	3.35	11 iPn	42	00.60	-1.0
S.D. = 1.3 on 10 of 15 obs.					

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* JAN 05, 1991 04h 09m 49.86± 0.43s
58.039 S ±12.7km 25.296 W ±13.6km
DEPTH = 33.0km (normal)
5.3mb (4 obs.)
SOUTH SANDWICH ISLANDS REGION (153)

BMA	37.84	331 eP	17	05.90	0.9
		e	17	19.10	
VAO	38.33	327 eP	17	10.20	1.1
PPD	40.59	321 eP	17	26.90	-1.0
BAO	45.61	329 ePc	18	09.00	0.3
PDCR	46.61	341 eP	18	15.70	-0.8
SOB1	50.18	340 eP	18	45.60	1.4
CCH	50.53	306 P	18	46.10	-1.1
CNCB	51.84	304 P	18	56.00	-1.4
LPB	52.13	304 eP	18	54.00	-5.5X
ZOBO	52.38	304 P	18	59.70	-1.8
LIC	66.12	22 P	20	35.74	0.0
	0.7s	19.00nm		5.3mb	
KIC	66.31	22 Pd	20	36.64	-0.3
	0.7s	15.00nm		5.2mb	
TIC	66.53	22 P	20	38.18	-0.2
BCAO	71.48	47 iPc	21	10.10	1.1
	0.3s	15.00nm		5.5mb	
ASPA	96.77	161 eP	23	18.60	0.3
	0.7s	6.10nm		5.2mb	
PRI	122.51	287 ePKP	28	44.00	1.2
FRI	122.69	288 ePKP	28	44.30	1.4
PRS	123.02	287 ePKP	28	44.60	1.0
DMN	123.70	91 PKP	28	44.46	-1.1
GKN	123.77	90 PKPd	28	44.18	-1.3
PKI	123.84	91 PKP	28	44.64	-1.3
CMB	123.84	289 ePKP	28	45.70	0.5
MHC	123.94	287 ePKPd	28	46.80	1.3
KKN	123.94	91 PKPd	28	44.78	-1.2
GUN	124.36	92 PKP	28	45.98	-0.9
BKS	124.65	287 ePKPd	28	47.70	1.0
	0.7s	33.00nm			
BRK	124.66	287 ePKP	28	47.70	1.0
FRB	125.88	338 ePKP	28	47.00	-1.3
MIN	126.21	290 ePKP	28	50.30	0.4
WDC	126.85	289 ePKPd	28	50.70	-0.2
SES	128.71	305 ePKP	28	54.00	-0.2
YKA	138.33	316 ePKP	28	58.50	-13.5X
	0.4s	0.40nm			
MBC	146.22	335 ePKPc	29	26.60	1.2
	0.9s	30.00nm			
INK	147.99	318 ePKPc	29	31.00	2.6X
	0.8s	46.00nm			
BJI	149.55	109 ePKP	29	37.00	5.3X
KLU	150.81	302 iPKP	29	39.50	6.5X
TOA	151.13	303 iPKPc	29	41.70	8.2X
PMR	152.29	301 ePKP	29	42.00	6.9X
PMS	152.38	300 iPKPc	29	42.80	7.5X
KDC	152.52	292 ePKP	29	42.90	7.4X
FBA	152.60	309 ePKP	29	42.30	6.9X
IMA	155.21	310 ePKP	29	48.90	9.8X
	1.0s	7.50nm			
		e	30	04.30	
S.D. = 1.1 on 31 of 42 obs.					

& JAN 05, 1991 04h 18m 29.20s
62.147 N 151.085 W
DEPTH = 74.8km
CENTRAL ALASKA (1)
<AEIC>.

SKT	0.27	232 iP	18	40.17	-0.7
		eS	18	49.19	
CUT	0.46	55 iP	18	41.62	-0.6
SUA	0.70	167 eP	18	44.57	-0.3
		eS	18	56.66	
PWA	0.76	131 iP	18	45.09	-0.2
		eS	18	56.85	
NCG	0.90	215 eP	18	46.23	-0.9
		eS	18	59.89	
CGLM	0.95	208 eP	18	46.88	-0.8
HUR	1.07	38 eP	18	48.12	-1.0
		eS	19	02.98	
SPU	1.07	206 iP	18	48.30	-0.9
		eS	19	03.10	
PLRM	1.08	120 eP	18	48.63	-0.6
		eS	19	03.69	
BGL	1.08	216 eP	18	48.84	-0.5
GHO	1.09	109 eP	18	49.22	-0.2
CKL	1.13	213 iP	18	49.66	-0.9
		eS	19	04.38	

PMS	1.16	141	eP	18 50.12	-0.2
			eS	19 06.48	
TRF	1.36	15	eP	18 51.79	-1.2
			eS	19 09.60	
NKA	1.41	183	eP	18 55.21	1.7
KNK	1.45	119	eP	18 53.25	-0.8
RND	1.63	38	eP	18 55.00	-1.5
			eS	19 14.36	
RDT	1.70	203	eP	18 56.44	-1.1
NCT	1.82	210	eP	18 58.42	-0.8
RDN	1.83	207	eP	18 58.29	-1.0
REF	1.84	206	eP	18 58.42	-1.1
RS2	1.87	206	eP	18 59.28	-0.7
RSO	1.87	206	eP	18 59.29	-0.7
GLI	2.30	122	eP	19 03.27	-2.4
KNIM	2.42	137	eP	19 06.32	-1.1
VZW	2.43	115	eP	19 07.09	-0.3
KLU	2.54	103	eP	19 06.02	-3.0

27 obs. associated

% JAN 05, 1991 06h 05m 19.48± 0.82s
42.756 N ± 5.7km 12.668 E ±16.5km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ASS	0.31	359	P	05 25.80	-0.2
			eSg	05 30.50	
MNS	0.37	179	P	05 27.40	0.3
			eSg	05 33.60	
ARV	0.77	15	P	05 35.00	0.5
			eSg	05 47.00	
SFI	1.31	333	P	05 43.50	-0.1
			eSn	06 00.00	
SDI	1.35	141	P	05 44.00	-0.4

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

JAN 05, 1991 06h 20m 07.77± 1.09s
40.639 N ± 9.8km 30.398 E ± 7.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.1 (ISK).

GPA	0.36	191	iPg	20 14.00	-1.1
			iSg	20 21.50	
HRT	0.58	288	iPg	20 18.90	-0.7
IZI	0.77	247	iPn	20 23.70	0.9
YLV	0.78	265	iPg	20 22.90	-0.2
			iSg	20 36.40	
ISK	1.10	293	iPn	20 28.40	0.0
DST	1.71	233	iPn	20 39.00	1.2
BBTK	1.98	113	eP	20 42.00	0.3
			iS	21 04.00	
KGT	2.37	266	iPn	20 46.90	-0.3

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

? JAN 05, 1991 06h 37m 12.20± 4.47s
40.315 N ± 9.6km 24.140 E ±35.9km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

OUR	0.12	279	iPc	37 15.10	-0.1
			eS	37 16.02	
PAIG	0.52	223	iPc	37 22.33	-0.5
SOH	0.78	310	iPc	37 26.30	-1.2
			iS	37 35.61	
SRS	0.90	333	ePd	37 29.86	0.4
			iS	37 38.61	
KNT	1.27	312	iPc	37 35.30	-0.4
			eS	37 51.58	
LIT	1.28	261	ePd	37 36.62	0.6
			eS	37 51.38	
GRG	1.47	296	ePd	37 40.02	1.2
			iS	37 58.34	

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

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* JAN 05, 1991 06h 44m 11.94± 1.06s
38.986 N ± 8.8km 21.150 E ± 9.9km
DEPTH = 5.0km (geophysicist)
GREECE (364)
MD 2.7 (ATH).

EVR	0.52	97	iPgd	44 21.00	-1.3
VLS	0.92	209	ePg	44 29.00	-1.0
KEK	1.27	305	ePg	44 46.00	10.0X
KZN	1.40	20	ePn	44 45.00	6.7X
NEO	1.64	78	ePb	44 42.00	0.4
ITM	1.90	161	ePg	44 45.50	0.1
OHR	2.14	353	ePn	44 49.00	0.2
VLI	2.67	147	ePg	44 58.00	1.6

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

& JAN 05, 1991 07h 01m 20.52s
60.305 N 150.526 W
DEPTH = 38.1km
KENAI PENINSULA, ALASKA (14)
<AEIC>.

SLKM	0.25	37	iP	01 28.17	0.0
NNL	0.47	236	iP	01 31.16	0.4
NKA	0.56	322	iP	01 33.30	1.3
BRLK	0.57	199	eP	01 31.40	-0.8
SEW	0.57	110	iP	01 30.99	-1.2
			eS	01 39.72	
HOM	0.86	221	eP	01 35.78	-0.4
			eS	01 48.48	
CNPM	0.86	205	iP	01 35.41	-0.9
			eS	01 47.33	
RDT	0.97	287	iP	01 37.05	-0.8
			eS	01 49.94	
XLV	1.04	216	eP	01 37.96	-0.9
PMS	1.06	26	iP	01 38.46	-0.6
REF	1.10	281	eP	01 38.89	-0.9
			eS	01 53.79	
RSO	1.12	279	eP	01 39.14	-1.0
			eS	01 54.20	
RS2	1.12	279	eP	01 39.19	-0.9
RDN	1.13	282	eP	01 39.09	-1.1
			eS	01 53.83	
SPU	1.16	320	eP	01 39.92	-0.6
NCT	1.22	283	eP	01 40.43	-1.0
CGLM	1.24	325	eP	01 41.02	-0.7
CKL	1.26	316	eP	01 41.03	-1.0
BGL	1.33	317	eP	01 42.77	-0.2
NCG	1.36	325	eP	01 43.09	-0.4
PWA	1.39	13	eP	01 43.33	-0.4
KNIM	1.39	87	eP	01 41.20	-2.6
PLRM	1.46	27	eP	01 43.07	-1.7
MTU	1.47	101	eP	01 42.77	-2.2
KNK	1.50	41	iP	01 44.20	-1.2
GHO	1.67	27	eP	01 46.69	-1.1
SKT	1.75	344	eP	01 48.55	-0.4
GLI	1.79	70	iP	01 46.74	-2.8
PDB	1.91	256	eP	01 50.05	-1.2
VZW	2.10	67	eP	01 51.33	-2.7
CUT	2.11	3	eP	01 54.49	0.4
VLZ	2.22	66	eP	01 53.24	-2.4
KLU	2.55	60	iP	01 58.32	-2.1

33 obs. associated

& JAN 05, 1991 08h 30m 47.64s
63.217 N 150.746 W
DEPTH = 132.8km
CENTRAL ALASKA (1)
<AEIC>.

HUR	0.56	115	eP	31 07.24	-0.4
			eS	31 22.23	
CUT	0.84	165	eP	31 09.45	-0.2
			eS	31 26.14	
RND	0.88	77	eP	31 09.59	-0.5
			eS	31 26.70	
MCK	0.96	57	eP	31 10.39	-0.4
			eS	31 27.05	
BWN	1.12	30	eP	31 12.13	-0.1
SKT	1.29	197	iP	31 13.49	-0.6
			eS	31 33.33	
NEA	1.55	28	eP	31 15.81	-1.1
PWA	1.62	165	iPc	31 17.40	-0.2
GHO	1.68	149	iP	31 17.87	-0.6
			eS	31 41.59	
SUA	1.76	180	eP	31 19.65	0.2
PLRM	1.80	155	eP	31 18.62	-1.1
PMR	1.80	155	iPc	31 18.70	-1.0
CCB	1.94	41	eP	31 20.69	-0.7
NCG	1.94	201	eP	31 20.93	-0.6
CGLM	2.01	198	eP	31 21.77	-0.6
PMS	2.06	164	iPc	31 22.20	-0.7
HDA	2.06	53	eP	31 22.65	-0.3
MDM	2.07	31	eP	31 22.10	-1.0
KNK	2.10	148	eP	31 22.44	-1.0
BGL	2.11	202	eP	31 23.37	-0.2
FBA	2.13	36	eP	31 23.00	-0.8
SPU	2.13	197	eP	31 23.35	-0.5
CKL	2.16	201	eP	31 23.64	-0.7
GLM	2.31	38	eP	31 25.24	-0.9
TOA	2.39	116	eP	31 26.60	-0.5
PAX	2.41	94	eP	31 26.86	-0.6
			eS	31 55.69	
TTA	2.41	265	eP	31 26.50	-0.9
SDG	2.48	104	eP	31 30.01	1.7
NKA	2.49	186	eP	31 29.90	1.5
SLKM	2.73	175	eP	31 30.52	-1.0
RDT	2.77	197	eP	31 31.20	-0.8
KLU	2.84	125	eP	31 30.72	-2.2
NCT	2.86	202	eP	31 32.30	-0.9
RDN	2.88	200	eP	31 32.88	-0.6
GLI	2.91	142	eP	31 31.70	-2.1
VZW	2.93	136	eP	31 31.97	-2.1
VLZ	2.94	133	eP	31 31.58	-2.6
SVW	3.12	229	ePd	31 35.30	-1.2
IMA	3.13	338	eP	31 35.50	-1.3
KNIM	3.21	152	eP	31 35.41	-2.4
LTI	3.47	155	iP	31 39.13	-2.1
GL8	3.69	116	eP	31 42.82	-1.4
CNPM	3.71	184	eP	31 43.03	-1.4

43 obs. associated

JAN 05, 1991 08h 58m 03.35± 0.39s
40.973 N ± 3.7km 22.365 E ± 3.5km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 3.0 (ATH), 2.7 (THE). ML 2.3 (SKO).

GRG	0.03	120	iP	58 05.72	0.3
VAY	0.38	24	iPg	58 10.60	-0.6
			i	58 13.70	
			iSg	58 16.00	
KNT	0.45	65	iP	58 12.64	0.2
			eS	58 19.16	
THE	0.57	127	iP	58 13.93	-0.9
			eS	58 23.24	
SOH	0.76	101	iP	58 17.98	-0.3
			iS	58 30.61	
FNA	0.77	256	iP	58 17.22	-1.3
			eS	58 28.08	
KZN	0.80	214	ePg	58 20.00	1.0
LIT	0.88	174	eP	58 19.88	-0.3
			iS	58 34.61	
SRS	0.94	81	eP	58 20.96	-0.3
			eS	58 34.36	
PLG	1.02	126	ePg	58 22.20	-0.4
OHR	1.19	277	iPgc	58 24.90	-0.7
			iSg	58 41.00	
			Lg	58 43.80	
			LR	58 48.00	
MMB	1.20	59	ePgd	58 27.00	1.3
SKO	1.22	325	iPgc	58 25.70	-0.3
			iSg	58 40.30	
			Lg	58 43.00	
			LR	58 44.90	
OUR	1.39	117	eP	58 29.28	0.6
PAIG	1.45	136	iP	58 29.85	0.3
			eS	58 50.48	
VTS	1.74	21	iP	58 35.70	1.8
			iS	58 58.00	
NEO	1.79	158	ePb	58 33.90	-0.6
AGG	1.95	181	eP	58 37.16	0.3
EVR	2.10	192	ePg	58 44.00	4.9X
IGT	2.12	228	eP	58 40.84	1.6
KEK	2.33	238	ePg	58 54.00	11.7X
KDZ	2.40	73	eP	58 42.50	-0.8
PVL	3.15	44	eP	58 53.00	-0.8

S.D. = 0.9 on 21 of 23 obs.

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* JAN 05, 1991 09h 03m 26.94± 0.88s
19.401 N ±10.0km 121.218 E ±15.2km
DEPTH = 33.0km (normal)
4.4mb (4 obs.)
PHILIPPINE ISLANDS REGION (248)

PIP	1.21	208	iPd	03 47.00	-0.6
			iS	04 01.50	
SZP	1.98	202	iPc	03 59.00	0.3
			e	04 26.00	
BAG	3.04	192	eP	04 16.00	2.0
			eS	04 57.20	
QCP	4.74	182	eP	04 48.00	10.1X
CHG	21.06	272	eP	08 10.70	0.0
CHTO	21.06	272	eP	08 10.00	-0.6
	1.0s		10.00nm		4.2mb

05d 09h

			pP	08	22.10	51kmX			0.6s	8.30nm		4.9mb		OHR	83.08	323	eP	30	47.50	-0.4
MAT	22.67	38	eP	08	38.00	11.3X		NDI	58.15	280	iPc	28	16.20	-1.0		OLY	83.29	46	eP	30	47.00	-2.0
	0.7s	8.22nm							0.6s	23.33nm		5.4mb		DSI	83.32	308	iPc	30	49.90	0.7
WRA	41.16	161	P	11	18.00	8.0X		NEW	60.78	50	eP	28	34.40	-0.8		FLN	83.47	340	eP	30	49.40	-0.3
	0.9s	2.10nm				3.9mb			0.8s	11.25nm		5.0mb				0.5s	14.60nm			5.4mb	
ASPA	44.56	163	eP	11	36.00	-1.7		WDC	62.06	60	eP	28	46.30	2.4		VAI	83.51	333	P	30	51.70	1.8
	0.7s	7.00nm				4.6mb		SES	62.73	45	eP	28	48.00	-0.3		LDF	83.54	340	eP	30	49.60	-0.5
WARB	45.62	173	eP	11	45.40	-0.7		HYB	64.27	270	eP	28	57.50	-1.3			0.7s	18.75nm			5.3mb	
MBC	77.90	12	eP	15	23.50	0.9		FFC	64.27	38	iPc	28	57.90	-0.4		LOR	83.72	337	eP	30	50.70	-0.3
YKA	87.35	23	eP	16	12.00	0.4			0.6s	10.00nm		5.1mb				0.6s	10.80nm			5.2mb	
	0.9s	4.30nm				4.7mb		QUE	64.37	288	eP	28	59.10	-0.4		GRR	83.91	340	eP	30	51.50	-0.4
	S.D. = 1.2	on	9 of	12	obs.			LRM	64.79	50	eP	29	01.90	-0.2			0.6s	27.05nm			5.6mb	
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JAN 05, 1991 09h 18m 24.65± 0.87s								WRA	65.48	195	P	29	06.00	-0.3			0.7s	14.35nm			5.2mb	
44.422 N ± 7.4km 149.201 E ± 4.1km									0.7s	2.60nm		4.4mb				ORX	83.97	334	P	30	52.70	0.3
DEPTH = 35.2 ± 8.1 km								NUR	66.10	334	eP	29	08.00	-1.9		SSF	84.01	337	eP	30	52.20	-0.3
5.2mb (63 obs.) 4.2Msz (2 obs.)								TNP	66.85	59	eP	29	15.20	-0.2			0.5s	4.75nm			4.9mb	
KURIL ISLANDS						(221)			0.6s	2.59nm		4.5mb				ARV	84.16	330	P	30	56.00	2.7X
								POO	66.90	274	eP	29	15.50	-0.2		SFI	84.19	331	P	30	57.00	3.7X
KUSJ	3.51	249	P	19	17.70	-0.4		GBA	67.60	267	P	29	19.10	-0.9		BOB	84.26	332	P	30	56.00	2.1
			S	19	56.10			FRB	68.11	17	eP	29	21.00	-1.6		LPF	84.29	340	eP	30	53.70	-0.1
ASAJ	4.72	269	eP	19	38.50	3.2X		BW06	68.34	51	eP	29	24.50	-0.2			0.6s	27.05nm			5.6mb	
HOOJ	4.77	247	eP	19	37.40	1.4			0.7s	5.07nm		4.7mb				SMF	84.30	337	eP	30	53.80	-0.1
			eS	20	30.70			UPP	68.76	336	iP	29	25.00	-1.6			0.7s	22.60nm			5.4mb	
MRRJ	6.25	254	P	19	57.50	0.7		DAU	68.92	54	eP	29	28.50	0.1		AVF	84.30	337	eP	30	53.80	-0.1
			eS	21	06.20			ASPA	69.19	195	eP	29	30.80	1.1			0.5s	9.85nm			5.2mb	
OFUJ	7.76	229	eP	20	15.00	-3.0X			0.8s	4.30nm		4.5mb				MME	84.35	331	P	30	58.00	3.5X
			eS	21	38.10			NB2	69.50	340	P	29	29.40	-1.8		LSD	84.39	334	P	30	55.78	1.1
YAMJ	9.30	231	eP	20	37.80	-1.5			0.7s	17.50nm		5.2mb				CRE	84.41	330	P	30	58.00	3.4X
			eS	22	15.80			HFS	69.63	338	eP	29	29.60	-2.4		PRNI	84.45	308	iPc	30	56.00	1.0
MAT	11.48	230	eP	21	07.00	-2.2X			0.5s	22.10nm		5.5mb				LPL	84.46	335	eP	30	54.90	-0.2
	0.7s	6.16nm				4.9mb		KOD	69.87	265	eP	29	30.00	-4.4X			0.7s	6.60nm			4.9mb	
		(S)		23	18.00			PV09	71.41	54	eP	29	43.50	-0.1		LPG	84.48	334	eP	30	55.20	0.0
MDJ	14.00	278	eP	21	42.70	0.1		GOL	72.74	51	eP	29	58.00	-1.4			0.7s	12.15nm			5.2mb	
SNY	18.86	271	Pc	22	43.40	-0.8		ANMO	75.41	55	P	30	07.00	0.2		BDI	84.50	331	P	30	57.00	1.9
BJI	24.74	271	eP	23	43.50	-0.5			0.8s	2.43nm		4.2mb				RSP	84.63	334	P	30	55.06	-0.7
	1.5s	31.00nm				4.7mb		ALQ	75.41	55	eP	30	07.00	0.2		ASS	84.64	330	P	30	58.50	2.8X
Z	18s	0.60um				4.1Msz			1.0s	3.75nm		4.3mb				BGF	84.65	337	eP	30	55.90	0.2
TIA	25.67	263	Pd	23	53.00	0.2		KRA	76.06	329	iPd	30	09.70	-0.2			0.8s	16.10nm			5.2mb	
HHC	27.76	276	P	24	13.40	1.4			0.6s	49.00nm		5.7mb				PCP	84.76	333	P	30	55.88	-0.5
TIY	28.34	269	eP	24	19.00	1.7		SCH	76.51	20	eP	30	12.00	-0.4		BNI	84.90	334	P	31	00.00	2.9X
Z	18s	0.60um				4.2Msz		SPC	76.65	328	eP	30	11.60	-1.9		CKI	84.95	333	P	30	59.50	2.3
BTO	28.95	276	eP	24	22.00	-0.7		VRI	76.69	323	ePc	30	18.50	4.9X		RRL	84.98	334	P	30	58.75	1.1
XAN	32.59	265	iPd	24	50.40	-4.5X					e	55	41.50			MAF	85.04	337	eP	30	57.70	0.0
LZH	35.22	272	iPc	25	17.70	-0.1		KSP	76.70	331	iPd	30	13.70	0.2			0.8s	47.00nm			5.7mb	
	1.5s	89.00nm				5.5mb			0.9s	22.00nm		5.2mb				TCF	85.07	338	eP	30	57.80	-0.1
		pP		25	30.00	45kmX		KAS	76.84	316	iPd	30	16.40	1.8			0.9s	19.65nm			5.3mb	
TTA	35.97	40	eP	25	24.00	0.3		MLR	77.33	323	ePd	30	21.50	4.2X		FIN	85.17	333	P	30	58.03	-0.3
SVW	36.05	43	eP	25	25.30	0.9		CLL	77.39	334	iPc	30	17.00	-0.3		ROB	85.20	333	P	30	58.44	-0.1
GTA	36.64	280	Pc	25	29.80	0.2			0.9s	53.00nm		5.6mb				MNS	85.23	329	P	31	00.00	1.3
	0.8s	20.00nm				5.1mb		BRG	77.46	333	iP	30	17.50	-0.2		PZZ	85.26	334	P	30	58.13	-0.8
		pP		25	33.60	13kmX			1.0s	24.00nm		5.2mb				AZI	85.29	329	P	31	01.00	2.1
		PcP		27	52.70			EKA	77.89	344	P	30	21.00	1.0		LSF	85.29	338	eP	30	58.60	-0.3
BRW	37.26	26	eP	25	34.40	0.2			0.7s	15.90nm		5.2mb					0.7s	17.65nm			5.4mb	
IMA	37.29	34	eP	25	35.00	0.2		PRU	78.02	332	iPc	30	20.80	0.0		MFF	85.40	339	eP	30	59.30	-0.1
	0.6s	18.30nm				5.1mb			0.9s	26.60nm		5.3mb					0.7s	19.85nm			5.4mb	
KDC	37.76	48	e(P)	25	38.00	-0.6		MOX	78.40	334	eP	30	23.00	0.1		ENR	85.41	333	P	30	59.88	0.3
CD2	37.94	265	P	25	40.50	-0.1		SRO	78.51	329	iP	30	24.30	0.8		STV	85.42	334	P	30	58.85	-0.8
GYA	38.52	257	iPc	25	45.00	-0.5		HOF	78.61	334	iPd	30	24.10	0.0		IMI	85.54	333	P	31	00.59	0.3
PMS	38.99	42	eP	25	49.20	0.2			0.8s	21.00nm		5.2mb				SBF	85.73	333	eP	31	00.70	-0.5
PMR	39.17	42	e(P)	25	50.00	-0.4		ZST	78.64	330	eP	30	24.10	-0.1			0.6s	17.15nm			5.4mb	
	1.0s	18.00nm				4.8mb		KHC	79.07	332	iPc	30	26.80	0.2		FRF	86.25	334	eP	31	03.80	0.1
FBA	39.68	37	eP	25	55.00	0.4			0.9s	17.00nm		5.0mb				CAF	86.37	337	eP	31	04.20	-0.1
	0.6s	16.50nm				5.0mb		WET	79.29	333	iPd	30	28.40	0.6			0.7s	13.80nm			5.3mb	
TOA	40.54	41	eP	26	02.50	0.7			1.0s	52.00nm		5.5mb				LRG	86.44	334	eP	31	04.00	-0.6
KLU	40.72	42	P	26	04.00	0.7		GRB1	79.48	333	iPc	30	28.90	0.1			0.5s	8.75nm			5.2mb	
WMQ	43.22	292	P	26	24.40	0.4			1.1s	39.00nm		5.3mb				LMR	86.50	334	eP	31	04.60	-0.3
		pP		26	29.50	17kmX		PTJ	81.00	329	eP	30	35.80	-1.2			0.5s	7.30nm			5.2mb	
INK	45.07	31	ePc	26	38.80	0.3		MMB	81.41	322	iPc	30	40.20	1.0		LFF	86.72	338	eP	31	05.90	-0.1
MBC	47.71	19	eP	26	58.50	-0.7		SOTA	81.52	333	iPc	30	40.00	0.2			0.6s	25.25nm			5.6mb	
	0.5s	4.00nm				4.7mb			0.6s	16.30nm		5.2mb				LPO	86.83	338	eP	31	06.40	-0.2
CHG	48.89	255	eP	27	09.50	0.5					ic	30	41.10				0.6s	13.55nm			5.4mb	
CHTO	48.89	255	eP	27	09.00	0.0					i	30	49.20			BAO	147.82	32	ePKPc	38	08.50	3.7X
	1.0s	9.75nm				4.8mb		FVI	81.54	331	P	30	41.00	1.4			S.D. = 0.9	on	134	of	148	obs.
		pP		27	20.90	43kmX		CDF	81.70	335	eP	30	41.20	0.5		----------						
		sP		27	25.50				0.9s	14.75nm		5.0mb				JAN 05, 1991 09h 43m 54.67± 0.88s						
GUN	52.45	274	P	27	36.04	-0.5		HRI	81.85	309	eP	30	42.00	0.3		37.080 N ± 8.6km 26.810 E ± 8.5km						
	0.4s	40.00nm				5.7mb		FVM	81.88	44	eP	30	41.50	-0.2		DEPTH = 10.0km (geophysicist)						
KKN	52.95	274	P	27	39.70	-0.3		GAC	81.92	30	eP	30	41.50	-0.2		DODECANESE ISLANDS (369)						
	0.7s	39.00nm				5.5mb			0.5s	3.00nm		4.6mb				MD 3.1 (ATH).						
PKI	52.98	274	P	27	39.84	-0.6		SKO	82.10	323	iP	30	43.00	0.3								
	0.7s	24.00nm				5.3mb		VAY	82.14	322	eP	30	43.00	0.1		SMG	0.63	2	ePg	44	07.00	-0.3
DMN	53.18	274	P	27	41.64	-0.2		HAU	82.34	336	eP	30	44.40	0.5		APE	1.02	270	ePg	44	09.00	-5.1X
	0.7s	60.00nm				5.7mb			0.7s	12.15nm		5.1mb				CIN	1.14	63	eP	44	16.00	0.0
GKN	53.28	275	P	27	42.08	-0.3		BSF	82.37	335	eP	30	44.50	0.3		YER	1.18	87	iPn	44	17.20	0.5
	0.8s	59.00nm				5.6mb			0.9s	6.55nm		4.7mb				IZM	1.36	15	ePn	44	19.30	-0.4
YKA	54.42	35	eP	27	49.40	-0.7		CTI	82.40	332	P	30	45.00	0.6		ARG	1.36	129	ePb	44	22.80	3.1X

NPS	2.06	208	ePn	44 28.70	-1.0
PRK	2.20	349	ePb	44 34.20	2.4X
ELL	2.50	97	ePn	44 40.00	3.8X
VAM	2.69	232	ePg	44 41.80	3.0X
EZN	2.77	352	ePn	44 41.00	1.2
DST	2.90	29	ePn	44 43.00	1.3
VLI	3.13	265	ePb	44 46.00	1.1
KGT	3.39	6	iP	44 46.30	-2.3

S.D. = 1.4 on 9 of 14 obs.

% JAN 05, 1991 09h 50m 23.81± 0.86s
40.131 N ± 8.6km 27.927 E ± 4.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.8 (ISK).

EDC	0.22	347	iPg	50 29.00	0.4
			eSg	50 31.00	
BNT	0.23	359	iPg	50 28.30	-0.4
			eSg	50 30.80	
KGT	0.57	304	iPg	50 35.30	-0.1
YLV	1.19	68	iPn	50 46.30	0.3
IZI	1.20	80	ePn	50 46.00	-0.3
EZN	1.27	257	ePn	50 47.40	0.1
HRT	1.50	62	iPn	50 50.80	0.0

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

JAN 05, 1991 10h 01m 38.21± 0.48s
41.106 N ± 4.7km 22.424 E ± 4.1km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)

GRG	0.15	186	iP	01 41.70	0.0
VAY	0.24	27	iPg	01 43.20	-0.2
			iSg	01 47.00	
KNT	0.36	81	iP	01 45.89	0.2
			eS	01 51.30	
THE	0.63	139	eP	01 50.10	-0.7
			eS	01 58.62	
FNA	0.86	248	eP	01 54.66	-0.1
			eS	02 06.22	
SRS	0.88	89	iP	01 55.57	0.4
			iS	02 07.14	
LIT	1.01	177	iP	01 57.53	0.3
			eS	02 12.02	
SKO	1.14	320	ePg	01 59.20	-0.3
			iSg	02 14.30	
OHR	1.23	271	ePg	02 01.50	0.4
			eSg	02 18.70	

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

? JAN 05, 1991 10h 15m 29.79± 0.89s
37.341 N ± 9.4km 27.099 E ± 7.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

SMG	0.42	330	eP	15 38.20	-0.2
			eS	15 45.30	
CIN	0.83	72	eP	15 46.00	0.2
APE	1.28	258	eP	15 53.80	0.2
ARG	1.39	143	eP	15 55.00	-0.2

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

% JAN 05, 1991 10h 30m 07.21± 0.92s
39.266 N ± 6.9km 29.281 E ±11.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

DST	0.61	304	iPg	30 19.00	-0.5
			iSg	30 27.40	
KHL	0.96	169	ePg	30 25.50	0.0
			eSg	30 37.50	
IZI	1.08	8	iPn	30 27.50	-0.1
YLV	1.30	3	iPn	30 31.30	0.0
KGT	1.93	309	ePn	30 41.00	0.6

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

% JAN 05, 1991 10h 45m 54.85± 0.56s
39.223 N ± 4.9km 28.626 E ± 5.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.1 (ISK).

DST	0.38	0	iPg	46 01.90	-0.8
			iSg	46 07.90	
KHL	1.14	142	iPg	46 16.00	-0.2
			eSg	46 31.50	
ALT	1.17	98	ePn	46 16.70	0.0
BNT	1.26	335	iPn	46 18.30	0.1
EDC	1.27	333	ePn	46 19.00	0.6
IZI	1.29	30	ePn	46 17.00	-1.8
IZM	1.35	233	iPn	46 19.90	0.2
YLV	1.46	23	iPn	46 21.80	0.5
KGT	1.59	321	iPn	46 23.30	0.2
GPA	1.68	50	ePn	46 25.00	0.6
HRT	1.79	26	iPn	46 26.80	0.8
ISK	1.87	10	ePn	46 27.80	0.7
EZN	1.88	289	ePn	46 26.40	-0.9

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

• JAN 05, 1991 11h 07m 31.39± 1.06s
3.619 S ± 8.6km 130.950 E ±27.7km
DEPTH = 33.0km (normal)
4.8mb (8 obs.) 3.4Msz (1 obs.)
CERAM (272)

MTN	9.17	179	eP	09 44.40	-0.1
			iS	11 27.30	
KNA	12.25	190	eP	10 24.30	-2.1
	0.3s		19.00nm		5.7mb
ASPA	20.13	172	eP	12 06.30	0.6
	0.4s		35.60nm		5.1mb
	Z 22s		0.20um		3.4Msz
			iS	15 43.60	
MBL	20.52	211	eP	12 09.80	0.2
	0.3s		6.00nm		4.4mb
WARB	22.81	190	eP	12 35.00	2.3X
FORR	27.22	185	eP	13 16.00	1.7
	0.4s		22.00nm		5.2mb
CHTO	38.60	306	eP	14 54.90	1.5
	0.9s		2.56nm		4.0mb
XAN	42.83	333	iPd	15 27.60	-0.6
TIY	44.57	339	eP	15 41.50	-0.8
GTA	51.53	329	eP	16 36.00	-0.4
	1.0s		10.00nm		4.7mb
GUN	53.52	309	P	16 51.80	0.1
	0.7s		15.00nm		5.1mb
KKN	53.93	308	P	16 54.50	-0.1
GKN	54.53	308	P	16 58.90	-0.1
GBA	55.78	289	Pd	17 07.80	-0.1
	0.7s		2.00nm		4.3mb
WMO	61.13	325	P	17 45.00	0.1

S.D. = 1.0 on 14 of 15 obs.

% JAN 05, 1991 11h 53m 51.76± 0.72s
44.781 N ± 4.8km 6.683 E ±20.0km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.3 (LDG).

LPG	0.72	4	Pg	54 06.00	-0.1
			Sg	54 14.40	
LPL	0.74	3	Pg	54 06.40	0.0
SBF	1.06	149	Pg	54 12.00	0.1
			Sg	54 25.50	
FRF	1.22	181	Pg	54 13.60	-0.9
			Sg	54 29.80	
LRG	1.35	190	Pg	54 17.00	0.5
			Sg	54 34.20	
LMR	1.45	185	Pg	54 18.30	0.3
			Sg	54 37.40	

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

? JAN 05, 1991 12h 38m 05.09± 1.42s
39.535 N ±15.5km 142.740 E ±20.7km
DEPTH = 33.0km (normal)
4.0mb (3 obs.)
NEAR EAST COAST OF HONSHU, JAPAN (228)

MAT	4.66	232	eP	39 14.00	-1.0
	0.8s		38.81nm		
			(S)	40 19.00	
SSE	19.47	251	eP	42 42.50	10.5X
BJI	20.40	280	eP	42 41.50	-0.3
			e	42 49.50	
CHTO	42.95	254	eP	46 02.70	0.0
	0.7s		1.43nm		3.8mb
			pP	46 11.40	29kmX
GUN	47.98	274	P	46 44.00	0.8
KKN	48.50	274	P	46 47.80	0.8
GKN	48.90	275	P	46 50.40	0.4
WRA	59.69	189	P	48 09.00	0.4
	1.0s		1.10nm		3.9mb
YKA	61.13	31	P	48 39.60	21.6X
NB2	72.28	338	P	49 27.60	-1.2
	0.9s		2.80nm		4.3mb

S.D. = 0.9 on 8 of 10 obs.

? JAN 05, 1991 13h 31m 43.82± 1.55s
36.941 S ±34.4km 95.923 W ±12.8km
DEPTH = 10.0km (geophysicist)
5.1mb (7 obs.)
WEST CHILE RISE (686)

CNCB	31.80	58	P	38 12.30	0.9
LPB	31.91	58	P	38 11.00	-1.2
ZOBO	32.08	58	P	38 15.00	1.1
	1.5s		64.52nm		5.3mb
			LR	46 40.00	
PPD	41.20	82	eP	39 29.60	-0.8
VAO	44.17	86	e(P)	39 55.00	0.3
PDCR	56.12	80	(P)	41 25.00	-0.9
			e	41 31.60	
SOB1	56.73	75	eP	41 31.10	0.7
			e	41 38.10	
GLA	71.83	343	eP	43 08.00	-0.6
ALQ	72.19	351	eP	43 09.50	-1.3
	1.5s		22.22nm		5.0mb
ANMO	72.19	351	P	43 09.50	-1.3
	1.6s		104.17nm		5.7mb
PLM	72.61	342	eP	43 13.00	-0.4
SBB	74.12	341	eP	43 22.00	0.0
GSC	74.45	342	eP	43 24.00	0.1
CLC	75.14	342	eP	43 28.00	0.2
ISA	75.21	341	eP	43 28.00	-0.3
PRI	76.25	340	eP	43 35.20	1.0
MSU	76.56	347	P	43 36.20	0.1
PRS	76.63	339	eP	43 36.90	0.7
GOL	76.76	353	P	43 37.30	0.1
	1.3s		18.23nm		5.0mb
LLA	76.78	340	eP	43 37.80	0.8
FRI	76.79	341	eP	43 36.50	-0.5
TNP	77.20	343	P	43 40.00	0.4
	1.3s		13.61nm		4.9mb
MHC	77.65	339	eP	43 43.00	1.0
MNA	77.76	342	P	43 41.00	-1.6
CMB	77.95	340	eP	43 44.00	0.5
DAU	78.25	348	P	43 46.00	0.5
BKS	78.32	339	ePc	43 52.30	6.8X
	0.7s		33.00nm		5.5mb
BW06	80.31	350	P	43 56.30	-0.2
	1.2s		19.18nm		5.0mb
WDC	80.92	340	eP	43 59.10	-0.3
LRM	83.72	348	eP	44 15.00	0.8
GBA	156.01	164	PKP	52 07.00	27.2X
	0.9s		3.20nm		

S.D. = 0.8 on 29 of 31 obs.

? JAN 05, 1991 13h 34m 42.95± 3.14s
40.093 N ±40.1km 28.752 E ± 9.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

IZI	0.60	66	iPg	34 55.20	0.0
			iSg	35 02.70	
YLV	0.67	45	iPg	34 56.20	-0.1
			iSg	35 03.20	
HRT	1.01	44	iPn	35 02.20	0.1
KGT	1.16	288	iPn	35 04.70	0.0

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

? JAN 05, 1991 13h 45m 22.93± 1.09s
31.076 S ±10.5km 67.986 W ±14.3km
DEPTH = 33.0km (normal)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.49	238	iPc	45 37.50	4.1X
CFA	0.57	202	iP	45 39.50	4.9X
			S	45 52.00	
ZON	0.76	231	iP	45 38.30	1.1
			eS	45 50.30	
RTCB	0.81	239	ePd	45 38.00	0.0
RTCV	0.91	211	iPc	45 40.30	0.8
RTRS	1.56	305	ePd	45 48.00	-0.6
MDZ	1.95	202	iP	45 52.70	-1.7
			iS	46 13.50	
CYA	3.24	37	iPc	46 13.00	0.3

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

05d 14h

* JAN 05, 1991 14h 03m 43.05± 0.75s
41.165 N ± 6.7km 22.409 E ± 6.7km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.7 (SKO).

VAY	0.20	38	iPg	03	47.40	0.0
			iSg	03	51.40	
KZN	0.98	210	ePg	04	02.00	0.2
SKO	1.09	318	ePg	04	03.60	0.1
			iSg	04	18.80	
			Lg	04	21.60	
PLG	1.12	135	ePb	04	03.90	-0.1
			eSb	04	20.00	
OHR	1.22	268	ePg	04	05.50	-0.3
			eSg	05	18.70	
EVR	2.29	192	ePb	04	25.60	4.0X

S.D. = 0.3 on 5 of 6 obs.

JAN 05, 1991 14h 32m 56.66± 1.10s
41.056 N ± 9.7km 22.226 E ± 8.2km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)

GRG	0.17	127	iP	33	02.00	1.5
VAY	0.37	44	iPg	33	04.30	0.0
KNT	0.52	78	eP	33	06.24	-0.9
			eS	33	12.96	
FNA	0.70	247	eP	33	10.88	0.4
			eS	33	20.60	
LIT	0.98	168	eP	33	13.88	-1.3
SRS	1.03	86	eP	33	16.52	0.3

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

? JAN 05, 1991 14h 50m 07.28± 5.56s
28.585 N ±86.1km 88.074 E ±19.5km
DEPTH = 33.0km (normal)
TIBET (306)

GUN	2.05	251	P	50	41.32	0.9
PKI	2.56	247	P	50	47.22	-0.5
KKN	2.59	253	P	50	48.12	0.1
DMN	2.80	250	P	50	50.68	-0.2
GKN	3.09	260	P	50	54.72	-0.3
SHL	4.54	131	iP	51	15.60	0.0
			eS	52	05.00	

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

JAN 05, 1991 14h 57m 11.59± 0.15s
23.613 N ± 3.8km 95.901 E ± 2.6km
DEPTH = 19.7km (36 depth phases)
6.2mb (73 obs.) 7.1Msz (28 obs.)
BURMA (296)
Ms 7.3 (BRK), 7.0 (PAS).
Mo=4.0*10**19 Nm (PPT).
Thirty-two buildings and 380 hectores of farmland domoged in the Thobeikkyin oreo. Some londslides reported. Felt strongly ot Mandoloy. Felt in much of northwestern Burmo from Hkamti to Sittwe. Also felt in the Silchor oreo, Indio ond in Thoiland from Chiang Moi to Bangkok.
FAULT PLANE SOLUTION: P-Woves
NP1:Strike=275 Dip=88 Slip= -5
NP2: 5 85 -178
Principol Axes:
T Plg= 2 Azm=320
P 5 230
Comment: The focol mechonism is moderotely well controlled ond corresponds to strike-slip foulting. The preferred fault plone is not determined.
RADIATED ENERGY
No. of sto: 4 Focol mech. F
Energy 1.9±0.9*10**15 Nm
MOMENT TENSOR SOLUTION
Dep 12 No. of sto: 7
Moment Tensor; Scole 10**19 Nm
Mrr=-0.93 Mtt= 0.21
Mff= 0.72 Mrt= 0.98
Mrf=-0.66 Mtf= 1.94
Principol oxes:
T Vol= 2.42 Plg= 3 Azm=312
N -0.01 52 45
P -2.42 38 220
Best Double Couple:Mo=2.4*10**19
NP1:Strike= 3 Dip=62 Slip=-153
NP2: 259 66 -31
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GD$N
L.P.B.: 19S, 52C M.W.: 24S, 65C
Centroid Locotion:
Origin Time 14:57:24.4 0.1
Lot 23.61N 0.01 Lon 96.18E 0.01
Dep 20.9 1.1 Holf-durotion 10.0
Moment Tensor; Scole 10**19 Nm
Mrr= 0.49 0.03 Mtt= 0.18 0.02
Mff=-0.67 0.03 Mrt= 1.18 0.10
Mrf= 0.55 0.09 Mtf= 2.76 0.02
Principol Axes:
T Val= 3.14 Plg=25 Azm=321
N -0.07 64 126
P -3.08 6 228
Best Double Couple:Mo=3.1*10**19
NP1:Strike= 2 Dip=68 Slip= 166
NP2: 97 77 23

SHL	4.14	299	iP	58	17.80	2.4
			eS	59	11.80	
CHG	5.56	149	iPn	58	31.00	-4.3X
			iPg	58	53.00	
			iSg	00	02.00	
CHTO	5.56	149	iPc	58	31.10	-4.2X
KMI	6.41	75	Pd	58	48.00	0.4
	8.0s	*******nm				7.5mb X
			pP	58	51.50	
			S	00	05.00	
BDT	6.97	155	ePg	58	51.00	-4.2X
			eSg	59	19.00	
LSA	7.40	326	eP	59	04.00	2.3
	E 18s	1563.00um				
			S	00	25.00	
LOE	8.24	137	iPnc	59	09.60	-3.4X
			ePg	59	11.00	
			eSg	00	26.00	
NST	8.85	152	ePn	59	19.70	-1.7
			eSg	59	20.50	
GUN	9.99	297	P	59	37.12	-0.4
CD2	10.08	42	iPd	59	39.50	1.1
	6.0s	*******nm				8.0mb X
	E 10s	2688.00um				
			iS	01	37.00	
GYA	10.16	72	iPd	59	37.60	-2.1
	4.0s	8500.00nm				7.5mb X
	N 10s	799.00um				
	E 10s	562.00um				
			pP	59	44.00	
			PP	59	47.00	
			S	01	39.00	
PKI	10.26	295	P	59	41.12	0.0
PCT	10.30	149	ePn	59	37.00	-4.3X
			eSg	02	43.00	
KKN	10.44	296	P	59	42.94	-0.6
DMN	10.52	294	P	59	44.50	-0.2
GKN	11.05	296	P	59	50.56	-1.2
QIZ	13.77	107	Pc	00	24.00	-4.1X
	6.0s	4000.00nm				6.4mb X
	N 14s	2109.00um				
			S	02	54.00	
LZH	14.20	27	eP	00	34.09	0.2
	8.0s	*******nm				7.1mb X
	N 13s	2209.00um				
			pP	00	48.60	
			S	03	15.00	
			sS	03	20.00	
			SS	03	33.00	
XAN	15.42	45	iPd	00	47.50	-2.1
	6.0s	*******nm				6.8mb X
	N 12s	719.00um				
	E 12s	806.00um				
			pP	00	54.50	
			sP	00	59.50	
			PP	01	00.50	
GZH	16.03	88	Pd	00	56.00	-1.6
	7.0s	*******nm				6.3mb X
	Z 10s	210.00um				5.1MszX
	N 18s	2649.00um				
	E 10s	833.00um				
			S	03	52.00	
GTA	16.10	11	iPc	00	57.80	-0.7

	1.4s	4470.00nm				6.4mb
	Z 22s	743.00um				4.3MszX
	E 15s	713.00um				
			pP	01	09.00	
			sS	04	06.00	
			SS	04	10.00	
MCO	16.34	92	iP	01	06.00	4.4X
HKC	16.88	91	iP	01	09.70	1.4
			iS	04	14.00	
SNG	16.96	164	iPd	01	09.80	0.4
	1.7s	1961.54nm				6.0mb
			eS	04	21.80	
HYB	17.37	252	ePd	01	12.00	-2.6
	1.0s	1110.00nm				5.9mb
			iS	04	24.00	
NDI	17.51	291	iPc	01	13.80	-2.5
	0.8s	507.46nm				5.7mb
			iS	04	12.00	
WHN	17.81	63	iPd	01	20.00	0.1
	9.0s	*******nm				6.6mb X
	E 11s	1100.00um				
			sP	01	29.50	
			S	04	39.00	
IPM	19.56	165	ePc	01	41.20	-0.2
	1.0s	458.50nm				5.7mb
			e	07	23.20	
TIY	19.95	41	iPd	01	45.00	-0.4
			S	05	26.00	
GBA	20.11	244	Pd	01	45.50	-1.6
	0.8s	289.20nm				5.7mb
BTO	20.68	32	iPd	01	52.50	-0.6
	6.0s	*******nm				7.0mb X
			sP	02	03.00	
			PP	02	15.00	
			S	05	43.00	
OZH	20.73	82	Pd	01	51.00	-2.5
	8.0s	*******nm				6.9mb X
			sP	02	03.00	
			iS	05	44.00	
			sS	05	54.00	
POO	21.18	260	iPd	02	00.50	2.3
	1.6s	3266.67nm				6.5mb
			iSn	05	46.50	
WMO	21.26	343	ePc	02	00.61	1.7
	N 12s	908.00um				
	E 12s	936.00um				
			ec	02	04.42	14km
			eS	05	55.32	
HHC	21.64	34	Pd	02	04.00	1.2
	N 12s	786.00um				
			eS	06	03.00	
NJ2	21.94	62	iPd	02	05.00	-0.7
	5.0s	*******nm				6.7mb X
			iS	06	02.00	
BOM	22.01	262	iPc	02	08.80	2.3
			iS	06	05.00	
KOD	22.05	236	iPd	02	08.00	0.7
	1.0s	99.00nm				5.2mb
			eS	06	06.00	
TIA	22.22	51	Pd	02	07.90	-0.6
	8.5s	*******nm				6.8mb X
	N 11s	459.00um				
	E 11s	1625.00um				
			pP	02	15.00	25km
KGM	22.64	160	ePd	02	13.60	0.8
			e	02	57.00	
KSH	23.11	318	iPc	02	22.00	4.6X
ANP	23.38	81	iP	02	22.00	2.0
			iS	06	45.20	
SSE	23.63	66	iPd	02	21.00	-1.3
	4.0s	*******nm				6.8mb X
	N 14s	1923.00um				
	E 14s	655.00um				
			sP	02	34.00	
			S	06	38.00	
			PcS	09	44.00	
PIP	23.66	98	ePd	02	27.50	4.8X
BJI	23.68	41	eP	02	24.50	1.8
	1.2s	390.00nm				5.8mb
			e	02	28.97	16km
			eS	06	42.59	
SZP	23.75	100	iPd	02	27.00	3.5X
BAG	24.25	103	ePc+	02	30.00	1.4
	1.3s	330.77nm				5.8mb
CVP	24.94	99	eP	02	42.00	7.0X
QCP	25.37	106	eP	02	51.00	11.8X
PPR	25.78	118	iPd	02	47.00	4.0X

05d 15h

FRU		26.03	323	iPc	02	47.80	2.6	ARO		51.72	266	iPd	06	22.00	1.9	RDO		60.40	305	eP	07	22.50	0.5
				iS	07	19.00		KVT		52.49	304	iP	06	25.70	0.2	KDZ		60.44	306	eP	07	21.50	-0.7
KKM		26.21	129	ePc	02	52.00	4.8X	HRI		53.14	295	eP	06	32.20	1.6	SOD		60.47	335	iP	07	21.60	-0.4
		1.3s	440.60nm			6.0mb		BHL		53.15	296	Pc	06	32.00	1.4					i	07	27.80	20km
				e	03	40.00	250kmX					S	14	00.00		NUR		60.53	327	iP	07	21.90	-0.6
QUE		26.59	291	iP+	02	51.00	0.3	O8N		53.48	322	iPc	06	32.40	-0.1			0.8s	46.90nm				5.7mb
		1.7s	7865.38nm			7.1mb				1.5s	1080.00nm			6.6mb						i	07	29.00	23km
DL2		26.64	49	iPd	02	51.00	0.2		Z	22s	186.00um			7.1Msz						e	08	24.00	
		0.8s	1400.00nm			6.7mb						iS	13	58.00						e	09	32.00	
	N	13s	561.00um					WAJH		53.48	286	eP	06	34.70	1.7					e	11	14.00	
	E	13s	737.00um					MML		53.51	294	eP	06	33.80	0.6					e	15	38.00	
				S	07	28.00		ZNT		53.85	294	eP	06	36.70	1.1	KEV		60.77	338	iP	07	23.80	-0.2
DSH		27.47	309	iP	02	59.50	1.0	SIM		53.96	309	eP	06	36.00	-0.2			1.1s	139.20nm				6.0mb
				eS	08	01.00		PRNI		54.14	291	eP	06	37.40	-0.4					i	07	30.60	22km
TSM		28.80	129	eP	03	05.50	-5.1X	KAS		54.20	305	iPc	06	38.30	0.1					e	08	12.00	
IRK		29.33	11	iPc	03	17.00	2.0	FAM		54.40	297	eP	06	48.00	8.4X					e	11	06.00	
				eS	08	12.00		BADA		54.43	289	eP	06	40.70	0.8					e	13	06.00	
SNY		29.34	45	iPd	03	14.00	-1.2	RMN		54.43	291	eP	06	39.60	-0.5					e	15	42.00	
		1.4s	700.00nm			6.2mb		CSS		54.95	297	eP	06	43.50	-0.2	KEV		60.77	338	iPc	07	27.83	3.8X
	N	17s	819.00um					BBTK		55.02	303	eP	06	44.00	-0.3					ePPP	11	05.62	
	E	17s	344.00um									i	06	51.00	23km					eS	15	46.93	
				pP	03	19.00	17km	PET		55.17	41	eP	06	47.00	2.0					iPS	16	38.36	
				PP	04	07.00						eS	14	28.00						eHSS	19	38.39	
				S	08	08.00		PPCY		55.77	297	eP	06	49.50	0.0					iSS	19	41.15	
MAP		29.86	112	ePc	03	22.00	1.9	MRWA		55.97	159	eP	06	50.00	-1.0	RKG		60.78	160	eP	07	28.00	3.5X
CN2		31.52	43	Pd	03	34.00	-0.5			0.6s	19.00nm			5.3mb		TNR		60.88	310	ePc	07	26.00	0.8
		5.0s	*******	nm		7.1mb	X	AAE		56.37	265	eP	06	57.50	2.9X	APE		60.95	300	eP	07	30.00	4.2X
	N	15s	369.00um					GPA		56.87	304	iP	06	57.80	0.3	RZN		60.96	306	eP	07	25.00	-1.0
	E	15s	427.00um					ALT		57.13	302	iP	06	53.90	-5.5X	OIS		61.16	132	iPd	07	25.00	-2.3
				sP	03	40.00		YYYY		57.16	115	e(P)	07	01.00	1.1					i	07	35.70	36kmX
				eS	08	37.00		WRA		57.26	136	P	06	57.00	-3.4X	NPS		61.18	298	iPd	07	28.00	0.6
HIA		31.73	30	ePc	03	36.29	0.0			1.4s	77.70nm			5.5mb		BMR		61.25	313	ePd	07	30.00	2.4
				ec	03	40.26		HRT		57.32	304	iP	06	59.70	-1.0	PGB		61.26	307	P	07	28.00	0.1
				epPd	03	44.23	28km	HLW		57.34	291	eP	07	00.00	-0.9	RAB		61.37	109	eP	07	32.00	3.1X
				esPd	03	48.04						eS	15	00.00		OUR		61.68	304	eP	07	32.46	1.8
				ePP	04	34.56		IZI		57.51	304	eP	07	04.00	2.0	MMB		61.70	306	eP	07	31.00	0.1
				eS	08	48.42		ELL		57.52	300	iP	07	01.00	-1.2	DEV		61.81	311	ePc	07	33.00	1.5
				e	10	34.37		YLV		57.57	304	iP	07	01.10	-1.3	SRS		61.87	305	eP	07	30.54	-1.4
DAV		32.88	115	eP	03	46.00	-0.7	PUL		57.63	327	iPc	07	03.00	0.6	CEI		61.95	313	eP	07	43.00	10.6X
SHK		33.77	63	eP	03	56.00	1.8					iS	14	55.00		VTS		61.96	307	eP	07	33.50	0.7
MAIO		33.78	300	iPc	03	56.00	1.5	KHL		57.65	301	iP	07	01.10	-2.0	PAIG		61.97	304	eP	07	32.26	-0.3
		1.0s	150.00nm			5.9mb		WARB		57.75	147	eP	07	03.00	-0.7	UZH		61.98	314	iP	07	30.00	-2.5
				eS	15	26.00		ISK		57.76	305	iP	07	04.20	0.5					iS	15	55.00	
MDJ		34.53	44	Pc	04	01.00	0.4	ITU		57.79	305	eP	07	00.00	-3.9X	PLG		62.08	304	iPd	07	33.00	-0.4
		9.0s	*******	nm		6.8mb	X	KSL		57.86	299	eP	07	03.00	-1.4	SOH		62.09	305	eP	07	32.14	-1.3
	N	18s	213.00um					APA		57.99	336	eP	07	05.50	0.6	ATH		62.24	302	eP	07	34.00	-0.4
	E	18s	622.00um					CFR		58.18	310	eP	07	10.50	4.0X					ePPP	11	36.00	
				PP	05	17.00		DST		58.22	303	iP	07	04.90	-2.1					eS	16	00.00	
				iS	09	33.00		PSN		58.23	308	eP	07	06.80	-0.1					eSSS	23	06.00	
				sS	09	40.00		TLB		58.29	309	ePd	07	11.00	3.7X	VAM		62.29	299	eP	07	34.80	0.0
MAJO		38.52	61	eP	04	32.93	-1.6	MUN		58.59	160	iPd	07	09.50	0.0	FORR		62.33	149	eP	07	34.00	-1.0
				ePP	06	01.99				0.9s	129.00nm			6.0mb				0.4s	30.00nm				5.8mb
				eS	10	35.88			Z	20s	142.60um			7.1Msz		KNT		62.38	305	eP	07	34.18	-1.2
				eSS	13	23.48			N	20s	105.90um					THE		62.41	305	eP	07	35.42	-0.1
MAT		38.52	61	iPd	04	32.90	-1.6		E	20s	82.40um					NED		62.41	303	eP	07	35.00	-0.6
		1.0s	340.00nm			6.1mb		DMK		58.68	306	iP	07	10.00	-0.1	NAI		62.47	255	iPd	07	37.20	0.6
				eS	10	40.00		BNT		58.69	304	eP	07	09.70	-0.5	VAY		62.60	306	iP	07	34.50	-2.3
SHI		39.07	288	eP	04	39.00	-0.3	CLI		58.73	311	eP	07	20.00	9.6X			1.6s	746.00nm				6.6mb
TEH		40.21	298	eP	04	51.00	2.3	EDC		58.73	304	eP	07	12.00	1.5					i	07	40.00	18km
BBU		41.14	283	eP	04	59.90	3.7X	KLB		58.75	158	iPd	07	10.00	-0.6					i	08	01.00	
DHR		41.41	284	eP	05	02.00	3.5X					i	07	13.30	11km	GRG		62.78	305	eP	07	37.62	-0.4
SAP		42.03	51	eP	05	04.00	0.7	YER		58.77	300	iP	07	09.80	-1.0	LIT		62.84	304	eP	07	36.14	-2.3
				eS	11	20.00		ARG		59.01	299	eP	07	19.00	6.5X	TIM		63.00	311	iPd	07	42.00	2.7X
KER		43.64	296	ePc	05	17.50	0.7	KGT		59.15	304	iP	07	13.70	0.3	VLI		63.06	300	eP	07	38.00	-1.9
YSS		43.95	46	iPc	05	22.00	3.1X	VRI		59.15	310	iPd	07	17.00	3.7X	AGG		63.14	303	eP	07	38.42	-2.0
				iS	11	52.00		ISR		59.32	310	ePd	07	30.00	15.4X	SPC		63.28	315	iP	07	39.90	-1.5
TA8		44.44	301	iP+	05	25.50	2.3	IZM		59.41	302	eP	07	14.00	-1.3					i	07	47.50	25km
RYD		44.79	282	eP	05	28.00	1.9	JMB		59.49	307	P	07	15.00	-0.7					i	08	10.50	
				iS	12	04.00		MLR		59.72	310	iPd	07	21.00	3.6X					iPP	10	12.70	
MJMA		45.80	284	eP	05	36.00	1.9	8UC1		59.74	309	ePc	07	24.00	6.6X	SKO		63.35	306	iPc	07	40.70	-1.0
8KR		46.91	306	iPc	05	45.00	2.2	ASPA		59.75	139	eP	07	13.90	-3.8X			1.1s	301.00nm				6.4mb
				iS	12	36.00				0.8s	34.30nm			5.5mb						i	07	53.80	46kmX
QASM		47.32	284	eP	05	48.00	1.9		Z	23s	98.80um			6.9MszX						i	08	08.00	
GUA		47.33	93	eP	05	44.50	-1.7					iS	15	33.90						i	08	10.50	
		1.3s	353.85nm			6.3mb						ePP	36	41.30						i	08	15.50	
	Z	20s	122.27um			6.9Msz		NWAO		59.79	159	iPd	07	17.10	-0.7					i	08	43.50	
				e	05	52.00	25km			0.9s	79.00nm			5.8mb						i	10	10.20	
				eS	12	44.50						i	07	21.00	13km					e(S)	16	13.60	
KMSA		47.57	277	eP	05	48.30	0.1	SMG		59.83	301	eP	07	19.00	0.9	KZN		63.36	305	iPd	07	41.00	-0.9
AFIF		47.98	282	eP	05	55.30	4.0X	KAF		59.87	329	eP	07	18.10	0.1	KRA		63.39	316	eP	07	40.40	-1.5
UQSK		48.41	284	eP	05	57.30	2.6X	PMG		59.88	117	eP	07	19.00	0.3			0.9s	318.00nm				6.5mb
A8HA		49.70	274	eP	06	08.70	3.8X	EZN		59.96	304	iP	07	17.50	-1.4		Z	22s	140.50um				7.1Msz
KNA		50.62	137	eP	06	08.20	-3.3X	ALN		60.05	305	eP	07	19.22	-0.3		E	22s	130.00um				
		0.6s	165.00nm			6.2mb		PRK		60.07	303	eP	07	24.90	5.2X					i	07	43.80	11km
TIK		51.56	13	iPc	06	16.50	-1.5	DIM		60.31	306	eP	07	20.50	-0.8					i	07	47.80	
				eS	13	37.00		MTUR		60.36	310	eP	07	26.50	4.8X					i	08	08.30	
GAZ		51.66	300	iP	06	22.90	3.7X	CMP		60.37	310	iPc	07	25.00	3.2X					i	11	33.00	

05d 15h

				eS	16	05.00						iS	17	03.00			SAL	70.39	312	P	08	27.30	1.1
EVR	63.56	303	eP	07	42.20	-1.1		BRN	67.28	319	eP	08	08.00	1.1			SVO	70.41	110	P	08	30.00	3.2X
FNA	63.58	305	eP	07	41.18	-2.2		ORI	67.40	305	P	08	10.00	2.0			MME	70.62	311	P	08	29.70	1.7
PSZ	63.65	313	iP	07	43.50	-0.2		KMR	67.45	314	iP+	08	08.20	0.1			TNS	70.64	317	ePc	08	27.80	0.0
BEO	63.65	310	eP	07	42.50	-1.2		LJU	67.56	312	eP	08	08.70	-0.1						ePcP	08	55.80	
ITM	63.77	301	eP	07	42.20	-2.4					e($)	17	03.00				HNR	70.66	110	eP	08	30.00	1.7
OHR	63.95	306	iP	07	44.30	-1.5		TDS	67.58	305	P	08	10.70	1.7						eS	17	55.00	
	1.3s	260.00nm				6.2mb		CLL	67.59	318	iP	08	07.70	-1.2			BDI	70.72	310	P	08	29.80	1.4
			i	07	51.30	23km			1.8s	2400.00nm				7.0mb			SAX	70.79	314	ePd	08	29.10	0.1
			i	07	59.40				Z 18s	155.00um				7.3Msz			PII	70.86	310	P	08	30.30	1.2
UPP	64.03	327	iPd	07	44.40	-1.5					i	08	41.00	137kmX			VDL	70.89	313	ePd	08	30.10	0.5
			i	07	51.70	23km					eS	17	05.00				MDI	70.90	312	P	08	30.30	1.0
			iS	16	22.00			KHC	67.62	315	iPc	08	09.00	-0.2			ADE	71.01	144	iPc-	08	28.60	-1.5
PVY	64.32	307	iPc	07	50.42	2.1			1.4s	95.00nm				5.8mb				1.0s	700.00nm				6.7mb	
IVA	64.34	308	iPc	07	48.32	0.0			Z 22s	63.00um				6.8Msz			WIT	71.10	320	eP	08	32.00	1.6
SMY	64.52	41	eP	07	50.50	1.3			N 22s	93.00um										e	09	00.50	113kmX
	Z 20s	145.00um				7.2Msz			E 22s	57.00um										ePP	11	10.00	
IGT	64.58	304	eP	07	48.30	-1.5					i	08	15.90	22km			LLS	71.11	314	ePd	08	31.10	0.2
PLE	64.63	308	iPc	07	50.56	0.3					e	08	33.90				WTS	71.21	319	eP	08	31.50	0.4
VLS	64.63	302	eP	07	48.80	-1.4		CEY	67.69	312	eP	08	08.50	-1.2				1.0s	231.00nm				6.2mb
SRO	64.72	313	eP	07	49.40	-1.2		RIY	67.80	311	eP	08	18.70	8.4X						e	08	59.50	111kmX
	Z 14s	84.30um				7.1MszX		VOY	68.00	312	eP	08	08.00	-3.7X						ePP	11	15.00	
			i	07	56.20	22km		WET	68.06	315	iPc	08	13.00	1.0			SLE	71.22	315	ePd	08	31.20	-0.1
			i	08	16.90			SGO	68.15	306	P	08	13.60	1.0			BNS	71.25	318	iPd	08	30.60	-0.8
			i(PP)	10	25.70			TRI	68.16	312	P	08	14.80	2.3				Z 18s	64.00um				6.9Msz
			LR	15	40.00			KBA	68.16	313	iPd	08	12.70	-0.1						iS	17	51.50	
KEK	64.95	304	iPd	07	54.00	1.8			1.1s	309.00nm				6.4mb			BOB	71.34	311	P	08	32.30	0.2
ULC	64.96	307	iPc	07	56.67	4.4X					i	08	17.20	14km			RMQ	71.36	131	iPc	08	32.80	0.5
NKY	65.00	308	iPc	07	51.86	-0.8					i	08	34.90							i	08	41.00	26km
BDV	65.21	307	iPc	07	57.61	3.7X					i	08	39.00				ZLA	71.36	314	ePd	08	31.80	-0.4
BRY	65.31	308	iPc	07	53.81	-0.9		BHG	68.34	314	iPd	08	12.90	-0.8			GWF	71.47	316	P	08	33.12	0.3
HCY	65.42	307	iPc	07	54.27	-1.0		OLP	68.36	134	eP	08	13.00	-1.0			STR	71.48	316	P	08	32.87	0.1
ZST	65.47	314	eP	07	54.70	-0.7					i	08	23.00	32kmX			FEL	71.50	315	P	08	32.76	-0.4
			i	08	04.50	31kmX		HOF	68.48	317	eP	08	14.00	-0.5			VAI	71.52	313	P	08	34.40	1.4
			i	08	20.30			DUI	68.53	307	P	08	15.20	0.1			CDF	71.84	315	P	08	34.62	-0.5
			i	10	26.00			MOX	68.57	317	ePc	08	15.00	-0.1			BBS	71.94	314	P	08	35.05	-0.6
			e	36	51.30				1.7s	103.00nm				5.7mb			ECH	71.97	315	P	08	34.97	-0.8
			e	38	13.60				Z 20s	113.80um				7.1Msz			MMK	72.01	313	ePd	08	36.50	0.1
KSP	65.61	317	eP	07	55.30	-1.0			N 15s	112.70um							PCP	72.02	311	P	08	37.44	1.2
	1.2s	770.00nm				6.7mb			E 17s	60.50um							ENN	72.07	318	eP	08	37.00	0.8
			id	07	57.00	5kmX					iS	17	10.00					1.0s	192.00nm				6.1mb
			i	08	03.00			FVI	68.64	313	P	08	15.20	-0.3						e	09	04.00	106kmX
			i	08	26.00			GRB1	68.80	316	iPc	08	15.90	-0.6						ePP	11	40.00	
			iPP	10	21.50				1.5s	156.00nm				5.9mb			MOF	72.08	315	P	08	36.06	-0.5
			eS	16	40.00				Z 21s	84.00um				7.0Msz			ORX	72.11	313	P	08	35.90	-0.9
KBS	65.83	348	eP	07	58.00	0.7					ic	08	23.60	25km			ORO	72.11	313	P	08	37.20	0.4
BSD	65.89	322	eP	08	01.00	3.0X					eS	17	18.50				DBN	72.16	320	eP	08	40.00	3.3X
	1.2s	200.00nm				6.1mb		MUD	68.88	324	eP	08	17.00	0.2				Z 18s	170.00um				7.4Msz
			i	08	26.00	99kmX			1.5s	300.00nm				6.2mb						eS	18	08.00	
			e	10	16.00			SDI	68.99	307	P	08	18.00	0.2						eSS	23	20.00	
VKA	65.97	314	iPc	07	58.80	0.1		VVI	69.01	312	P	08	19.80	1.9			CKI	72.23	311	P	08	38.20	0.8
	4.3s	1380.00nm				6.4mb X		AQU	69.14	308	P	08	20.60	1.8			PGF	72.24	309	eP	08	35.20	-2.4
	Z 18s	96.70um				7.1Msz		AZI	69.20	308	P	08	19.90	0.9			BSF	72.31	315	P	08	36.90	-1.0
			i	08	23.00	95kmX		ARV	69.21	309	P	08	21.30	2.2			FIN	72.34	311	P	08	38.98	0.9
			i	12	06.10			MNO	69.22	303	P	08	22.00	2.4			DIX	72.37	313	ePd	08	39.60	1.1
			LR	41	20.00			MEU	69.25	302	P	08	20.40	0.8			JNW	72.41	341	eP	08	44.70	6.7X
HFS	65.98	327	eP	07	57.20	-1.3		WATA	69.29	314	iPc	08	18.90	-0.8			LOMF	72.41	315	P	08	37.51	-1.0
	1.0s	96.90nm				5.9mb					i	08	26.70	25km			ROB	72.55	311	P	08	37.34	-2.0
	Z 16s	114.14um				7.2MszX					i	08	48.30				DAG	72.58	347	iPc	08	37.30	-1.6
			LR	34	28.00			FUR	69.30	315	eP	08	20.00	0.4				1.3s	365.38nm				6.3mb
LCI	66.22	305	P	08	00.70	0.3		RSM	69.45	310	P	08	22.60	2.1			IMI	72.65	311	P	08	40.41	0.5
ZAG	66.61	311	eP	08	02.10	-0.7		ASS	69.50	309	P	08	22.50	1.5			CMS	72.70	137	eP	08	40.00	-0.2
PTJ	66.61	311	eP	08	01.50	-1.4		ODD1	69.52	327	eP	08	27.00	6.3X			EMS	72.70	313	ePd	08	41.00	0.7
ILT	66.64	24	iPd	08	01.20	-1.4		SQTA	69.56	314	iPc	08	19.60	-1.7			LSD	72.72	313	P	08	40.21	-0.3
			iS	16	52.00				1.1s	339.00nm				6.4mb			VITF	72.72	316	P	08	38.96	-1.2
BRT	66.67	306	P	08	05.00	1.7					i	08	27.00	24km			RSP	72.73	312	P	08	40.41	-0.1
HVAR	66.77	309	iPd	08	03.00	-0.9					i	08	47.50				SAOF	72.86	311	P	08	40.16	-1.0
PRU	66.85	316	P	08	03.20	-1.0					iPP	10	57.00				ENR	72.88	311	P	08	40.62	-0.7
	1.6s	832.50nm				6.6mb					i	11	01.90				CGL	72.92	306	P	08	44.41	2.8X
	Z 15s	102.00um				7.2MszX		MNS	69.65	308	P	08	23.00	1.1				2.4s	836.70nm				6.4mb
			e	08	10.90	25km		GIB	69.72	304	P	08	23.00	0.5			AUTN	72.94	311	P	08	41.75	-0.1
			e	08	31.30			OGA	69.76	313	iPd	08	22.50	-0.2			STV	72.94	311	P	08	40.93	-0.8
			PP	10	22.00			RMP	69.77	308	P	08	24.30	1.7			SBF	72.97	311	eP	08	39.50	-2.3
			S	16	28.00			RDP	69.77	308	P	08	21.00	-1.7			LPG	72.98	313	eP	08	40.30	-1.8
BAI	66.87	306	P	08	03.00	-1.5		CRE	69.88	310	P	08	25.00	1.7				1.3s	535.90nm				6.4mb
BRG	67.08	317	iP	08	05.90	0.2		SFI	69.88	310	P	08	24.50	1.4			LPL	72.99	313	eP	08	40.20	-1.9
	1.5s	280.00nm				6.2mb		LWI	70.05	258	iP-	08	24.60	-0.3			PZZ	73.02	312	P	08	41.23	-1.0
			i	08	12.00	20km		BER	70.05	328	eP	08	35.00	11.2X			AURF	73.04	311	P	08	41.20	-1.1
			i	08	34.00			ASK	70.10	328	eP	08	31.00	6.9X			REVF	73.06	311	P	08	42.07	-0.2
			i	11	22.00			MCT	70.11	303	P	08	27.30	2.3			TOUF	73.06	311	P	08	42.11	-0.4
			eS	17	09.00			FAI	70.17	303	P	08	26.40	1.3			RRL	73.12	312	P	08	44.51	1.6
NB2	67.09	328	P	08	03.70	-1.9		USI	70.19	304	P	08	25.20	0.1			BNI	73.16	312	P	08	43.70	0.7
VBY	67.17	311	eP	08	06.00	-0.3		ADK	70.23	41	eP	08	27.40	2.3			BRW	73.21	19	eP	08	42.70	0.1
RGS	67.20	330	eP	08	06.50	0.3			Z 20s	105.00um				7.1Msz			CALN	73.39	311	P	08	43.91	-0.4
COP	67.21	322	eP+	08	08.00	1.6		FIR	70.33	310	eP	08	25.00	-0.9			PTZ	73.46	246	iPd	08	42.20	-2.9X
	1.2s	518.75nm				6.6mb		VSG	70.37	110	eP	08	27.00	0.4						i	09	03.80	82kmX
	Z 21s	93.19um				7.0Msz		OSS	70.39	313	ePd	08	26.80	0.3						i	10	20.90	

05d 15h

			i	11	48.60				N	21s	64.52um					FRB	92.08	353	ePc	10	20.60	0.3
			i	19	36.90						i	09	21.50	18km			1.5s	366.00nm			6.6mb
FRF	73.61	311	eP	08	43.30	-2.1					i	09	49.00			CER	92.30	235	iPd	10	29.00	7.2X
LMR	73.77	311	eP	08	44.60	-1.8		ESCF	78.74	312	P	09	15.28	0.9			1.0s	92.00nm			6.1mb	
LRG	73.84	311	eP	08	45.10	-1.6		ATE	78.82	312	P	09	17.00	2.1		SHGH	93.07	278	eP	10	32.00	6.2X
	1.4s	612.65nm				6.4mb		EBR	78.83	310	eP	09	16.00	1.1		TEGH	93.15	277	eP	10	33.00	6.9X
MZZ	74.04	250	iPd	08	47.80	-0.7		LHE	78.83	312	P	09	15.26	0.2		KOGH	93.19	278	eP	10	31.00	4.6X
			i	08	53.70	19km		MADF	78.88	312	P	09	19.61	4.4X		LEGH	93.31	278	eP	10	35.50	8.6X
CDR	74.19	311	eP	08	49.50	0.7		EROO	78.89	310	eP	09	16.40	1.2		MAW	94.20	192	eP	10	30.40	0.7
			i	08	55.20	18km		ISSF	78.91	312	P	09	16.40	0.9			1.2s	131.00nm			6.2mb	
			i	09	23.70			ELYF	78.99	312	P	09	19.16	3.4X		Z	18s	30.00um			6.8Msz	
			i	11	37.10			BOH	79.03	312	P	09	14.91	-1.2				e(S)	21	54.00		
LOR	74.37	315	eP	08	47.40	-2.4		COL	79.23	23	ePc	09	17.12	0.5		KIP	95.29	64	eP	10	47.15	11.3X
	1.3s	310.25nm				6.2mb					ec	09	21.26	13km					eSKS	21	28.20	
	Z 17s	182.50um				7.4MszX					eHPP	12	21.42						eS	21	56.34	
LBF	74.38	315	eP	08	47.60	-2.3					ePP	12	24.40						ePS	23	01.73	
SSB	74.53	313	P	08	50.49	-0.3					eS	19	17.55			DRV	95.91	164	eP	10	41.60	4.0X
SMF	74.58	314	eP	08	48.80	-2.2					eSKS	19	26.38						PP	15	14.00	
SSF	74.66	315	eP	08	49.50	-2.0					e	19	59.48						SKS	15	21.00	
BRS	74.73	129	iPd	08	55.10	3.0X		FBA	79.23	23	eP	09	16.10	-0.5					SP	15	22.00	
			iS	18	33.00			REY	80.20	337	e(P)	09	29.60	7.8X					SS	15	27.00	
BFD	74.73	143	eP	08	51.00	-0.9		ECRI	80.24	312	eP	09	23.90	1.4					SSS	15	30.00	
			i	08	59.50	27km		ECHE	80.33	309	eP	09	24.50	1.4		KIC	97.15	280	P	10	49.22	4.8X
AVF	74.85	315	eP	08	50.50	-2.1		BFT	80.40	237	iPd	09	24.50	0.7		TIC	97.29	280	P	10	50.22	5.2X
PLDF	74.93	314	P	08	53.05	-0.1			1.2s	440.00nm				6.4mb		SNZO	97.34	132	P	11	00.00	15.4X
BGF	75.25	315	eP	08	52.90	-2.0		PMR	80.52	26	eP	09	22.80	-0.7		LIC	97.47	280	P	10	51.02	5.2X
PYM	75.41	314	P	08	56.22	0.3			1.2s	468.80nm				6.4mb		FFC	100.48	10	iPdiff	11	03.30	4.6X
LBL	75.41	313	P	08	56.64	0.9		Z	19s	167.00um				7.4Msz			1.4s	84.00nm			6.1mb	
MAF	75.55	314	eP	08	55.00	-1.6		ETOR	80.62	310	eP	09	22.60	-2.1		PNT	100.80	23	ePdiff	11	02.00	1.8
TCF	75.76	314	eP	08	56.30	-1.5		KDC	81.08	30	eP	09	26.30	-0.2			1.1s	38.00nm			5.9mb	
EKA	75.86	324	P	09	00.00	1.9		EALH	81.32	307	eP	09	31.10	2.8X		LON	102.11	25	ePdiff	11	11.25	5.1X
	1.1s	57.20nm				5.5mb		INK	81.49	17	eP	09	28.00	-0.6					eHPP	15	18.03	
ESK	75.89	324	eP	09	06.50	8.2X			1.0s	371.00nm				6.4mb					ePP	15	20.02	
	1.0s	280.00nm				6.3mb		SLR	81.78	237	iPd	09	29.00	-1.9		SES	102.55	17	ePdiff	11	15.00	7.0X
COO	76.06	133	eP	09	01.60	1.9			1.2s	500.00nm				6.4mb		NEW	102.57	22	Pdiff	11	11.80	3.6X
			i	09	06.30	15km					i	09	58.50	115kmX		COR	103.25	28	iPdiff	11	19.17	8.0X
KRI	76.19	245	eP	08	56.00	-4.8X		EVIA	81.80	308	eP	09	31.90	1.0					eSKS	21	57.03	
LSF	76.22	315	eP	08	58.40	-2.0		KLU	81.86	25	P	09	30.00	-0.7					eSDIF	23	02.52	
CAF	76.31	313	eP	08	59.60	-1.4		GUD	82.15	311	eP	09	33.80	1.1					ePS	24	44.55	
LDF	76.47	317	eP	08	59.80	-1.9		ENIJ	82.25	307	eP	09	34.50	1.3		LRM	106.25	20	ePdiff	11	27.90	3.0X
IMA	76.52	23	eP	09	01.50	-0.4		DZM	82.26	118	iPc	09	38.90	5.4X		WDC	106.81	30	ePdiff	11	34.60	7.5X
	1.2s	242.20nm				6.1mb		TOL	82.39	310	ePc	09	34.51	0.7					ePP	14	50.90	
RJF	76.54	314	eP	09	01.10	-1.1					ec	09	39.81	17km		BRK	109.10	31	ePdiff	11	45.00	7.6X
	Z 19s	105.00um				7.2Msz					ePP	12	47.10				Z 20s	94.00um			7.4Msz	
LSZ	76.62	247	iPc	09	02.20	-1.0					ePP	12	47.26						ePP	16	16.00	
			i	09	29.60	106kmX					iS	19	49.85						e	17	38.00	
			i	10	07.20						eSKS	19	57.58						ePPP	18	28.00	
			i	10	13.90						esS	20	02.82						e	20	00.00	
			i	12	50.20			EBAN	82.91	308	eP	09	36.70	0.1					ePS	25	44.00	
FLN	76.63	317	eP	09	00.70	-1.9		KSR	82.92	238	iPd	09	35.50	-1.4					eSS	32	00.00	
	1.2s	185.95nm				6.0mb			1.2s	450.00nm				6.5mb					eP'P'	35	22.00	
	Z 19s	155.00um				7.3Msz		AFC	83.11	308	eP	09	40.20	2.4					eSSS	35	52.00	
TOO	76.67	142	eP	09	03.50	0.6		ECOG	83.12	308	eP	09	40.10	2.3					eLQ	45	00.00	
			i	09	09.00	18km		TAF	83.27	305	iP	09	42.00	3.5X					eLR	51	00.00	
BCAO	76.67	269	iPc	09	03.30	-0.2		BFS	83.52	237	eP	09	40.00	0.1		BKS	109.11	31	e(Pdif	11	44.80	7.3X
	0.5s	10.00nm				5.1mb X		SEK	83.61	235	iPc	09	41.00	0.6			Z 20s	51.00um			7.1Msz	
LPO	76.98	313	eP	09	03.40	-1.2			1.3s	310.00nm				6.3mb			N 20s	63.00um				
GRR	77.00	317	eP	09	03.00	-1.7		EPLA	83.73	311	eP	09	42.20	1.5			E 20s	99.00um				
TTA	77.06	27	eP	09	04.80	-0.1		MAL	83.96	307	iPc	09	47.50	5.6X					e	12	04.20	
LFF	77.19	313	eP	09	04.40	-1.4					iS	20	00.00						ePP	16	17.10	
LPF	77.24	317	eP	09	04.60	-1.4		EHOR	84.10	309	eP	09	43.50	0.9					eSKS	22	28.80	
CNB	77.44	138	eP	09	09.60	2.3		LIJA	84.61	308	eP	09	49.00	3.7X					eS	23	53.20	
			i	09	14.50	16km		GDH	84.80	350	iPc	09	45.20	-0.3					ePS	25	40.00	
ESEL	77.49	308	eP	09	07.60	0.1			1.0s	204.00nm				6.3mb					eSS	31	50.40	
RIV	77.62	136	eP+	09	12.00	3.8X					i	10	07.00	80kmX					eLQ	42	16.00	
	Z 22s	34.00um				6.6Msz					i	20	02.00						eLR	50	44.00	
			eS	19	20.00			ALJ	84.85	308	eP	09	53.00	6.5X		MHC	109.82	31	ePdiff	11	51.00	10.2X
KMZ	77.75	249	iPd	09	09.80	0.3		GIBL	85.04	308	eP	09	57.00	9.7X					ePP	16	16.00	
			i	09	20.50	35kmX		OJEN	85.05	307	eP	09	53.00	5.5X					ePS	25	49.00	
			i	09	37.20			MOMI	85.09	307	eP	09	54.00	6.4X					eSS	32	09.00	
			i	10	03.80			BLF	85.09	235	iPd	09	46.00	-1.8					eLR	50	56.00	
			i	10	27.50				1.3s	400.00nm				6.5mb		CMB	109.84	30	ePdiff	11	41.00	0.2
			i	11	22.40						i	10	22.00	142kmX					ePP	16	15.70	
			i	13	52.70			PLAT	85.20	307	eP	09	54.00	5.8X					e	17	43.00	
AKU	77.99	337	iP	09	10.20	0.4		EVAL	85.28	309	eP	09	49.70	1.2					ePS	25	41.00	
	1.6s	586.67nm				6.4mb		CNIL	85.31	308	eP	09	53.00	4.4X					e	26	22.60	
MBC	78.03	8	eP	09	10.00	0.2		IFR	85.85	305	iP	09	49.00	-2.7					eLR	51	16.00	
	1.0s	101.00nm				5.8mb					i	09	53.00	13km		TNP	111.20	28	Pdiff	11	50.50	3.5X
SVW	78.05	28	eP	09	10.70	0.4					i	10	22.00			MSU	112.83	24	Pdiff	12	00.00	5.7X
EPF	78.13	312	eP	09	10.30	-0.8		AVE	87.67	305	iP	10	01.00	0.7		SYP	112.89	32	ePKP	15	59.00	9.7X
	1.2s	116.20nm				5.8mb					i	10	31.00	115kmX					e	16	44.00	
SDN	78.25	35	eP	09	13.60	2.3		TIO	88.61	303	iP	10	09.50	4.4X		SBC	113.08	32	ePdiff	12	04.21	9.0X
JAU	78.61	312	P	09	15.13	1.2					i	10	30.50	76kmX					ePP	16	34.83	
OGE	78.64	312	P	09	13.46	-0.4		SIT	88.87	25	e(P)	10	06.50	0.9					eSKS	22	36.82	
BUL	78.67	242	eP	09	16.00	1.5		Z	20s	160.00um				7.4Msz					eSKKS	23	44.28	
	1.0s	36.00nm				5.4mb		YKA	90.81	14	eP	10	30.50	15.9X					eSDIF	24	21.11	
	Z 22s	74.07um				7.0Msz			0.3s	3095.40nm									ePS	26	02.09	

05d 15h

HRV	113.20	350	iPdiff	12	02.81	7.3X
			eSKS	22	34.49	
			eSKKS	23	31.19	
			eSDIF	24	27.38	
			ePS	26	14.66	
GSC	113.72	29	ePKP	16	02.00	11.1X
			e	16	38.00	
GSC	113.72	29	ePdiff	12	00.42	2.3X
			ePP	16	38.82	
			iSKS	22	41.72	
			esSKS	22	59.37	
SBB	113.77	30	ePKP	15	48.00	-2.9X
			e	16	43.00	
GLD	113.95	18	PKP	16	00.00	8.7X
	Z 20s		67.00um			7.2Msz
GOL	113.96	18	PKP	16	00.00	8.6X
	Z 20s		55.00um			7.2Msz
MWC	114.04	30	ePKP	15	53.00	1.3
			e	16	45.00	
PAS	114.05	31	ePdiff	12	08.59	9.0X
			iSKS	22	37.91	
			e	22	52.07	
RVR	114.55	30	ePKP	15	56.00	3.6X
			e	16	54.00	
PNJ	115.15	352	ePKP	15	53.00	-0.2
PLM	115.32	30	ePKP	15	45.00	-9.1X
			e	16	45.00	
GLA	116.49	29	ePKP	16	03.00	6.9X
			e	17	04.00	
ANMO	118.02	21	iPdiff	12	25.00	7.6X
			eSKS	23	02.95	
			eSDIF	25	08.48	
			ePS	27	14.55	
ALQ	118.02	21	e(Pdif	12	15.00	-2.5X
ALQ	118.02	21	ePKP	16	01.00	1.8
	Z 20s		65.60um			7.3Msz
CBN	118.19	354	e(PKP)	15	59.00	-0.1
			e	17	16.00	
CCM	118.29	6	iPdiff	12	25.02	6.7X
			eSKS	22	52.49	
			e	22	58.29	
			eSDIF	25	02.18	
			esS	25	08.47	
			ePS	26	55.00	
CVL	118.51	355	PKP	16	05.00	5.3X
PDCR	136.01	276	ePKP	16	22.30	-11.5X
			e	16	34.40	
			e	16	42.20	
SOB1	136.34	282	ePKP	16	36.20	1.7
			e	19	42.40	
			e	20	09.30	
AIA	136.43	192	ePKP	16	32.40	-0.7
TBH	139.31	324	ePKP	16	38.88	-1.1
OLLA	142.54	331	iPKP	16	41.70	-4.2X
BMA	143.34	263	ePKP	16	44.10	-2.9X
			i	16	53.00	
			i	16	58.80	
TOV	143.98	336	ePKP	16	46.20	-2.1
BDF	145.08	276	ePKPd	16	50.90	0.7
			ic	17	02.98	
SDV	145.12	336	ePKP	16	48.80	-1.6
UPA	147.30	352	ePKPc+	16	56.70	3.0X
	Z 20s		30.14um			7.1Msz
			i	17	01.20	
			i	17	26.80	
PPD	149.77	266	ePKP	17	00.10	2.7X
			e	17	03.20	
			e	17	09.10	
			e	17	22.10	
			e	17	37.60	
BOG	150.28	339	iPKP	17	05.50	6.7X
HOBC	151.14	343	ePKP	17	00.81	0.9
BUGC	151.61	343	ePKPc	17	04.04	3.4X
CLMC	151.70	344	ePKP	17	01.25	0.5
HOOC	152.12	344	ePKPc	17	02.34	0.8
ANCC	152.13	344	ePKPc	17	03.36	2.1
DIAC	152.17	343	ePKP	17	02.20	0.7
SALC	152.61	344	ePKP	17	02.07	0.0
SILC	152.79	343	ePKP	17	03.73	1.1
PURC	153.14	343	ePKP	17	06.00	2.7X
PSO	154.48	344	ePKP	17	07.50	2.6X
LPA	154.62	238	ePKP+	17	18.00	14.1X
	Z 20s		26.24um			7.1Msz
			eSKKS	27	56.00	
COTA	155.55	346	ePKP	17	13.00	6.4X
CAYA	155.71	345	ePKP	17	14.00	7.2X
VC1	156.50	346	ePKP	17	11.00	3.1X
CCH	162.08	287	PKP	17	16.60	3.1X
ZOBO	163.31	293	PKP	17	16.00	0.9
	1.6s		209.90nm			
LPB	163.41	292	PKP	17	15.00	0.0
	1.1s		182.28nm			
			LR	14	50.00	
CNCB	163.43	291	PKP	17	17.00	1.8
MDZ	163.71	232	e(PKP)	17	17.80	3.3X
RTLL	164.15	238	ePKPc	17	21.70	6.8X
RTCB	164.34	237	e(PKP)	17	17.20	2.1
PEL	164.86	228	ePKP	17	17.00	1.5
RTRS	165.40	240	ePKPd	17	19.00	3.1X
ARE	166.19	299	ePKP	17	19.00	1.7
NNA	166.54	328	iPKP	17	24.50	7.2X
	1.5s		77.78nm			
	Z 22s		12.96um			
PT10	166.67	328	ePKP	17	24.00	6.6X
ANT	167.46	267	e(PKP)	17	25.00	7.3X
	S.D. = 1.3		on 400 of 538 obs.			

JAN 05, 1991 15h 38m 55.73± 0.62s
23.800 N ± 8.7km 95.963 E ± 6.6km
DEPTH = 33.0km (normal)
4.3mb (4 obs.)

BURMA (296)

SHL	4.11	296	iP	39	59.50	1.5
			eS	40	49.50	
CHG	5.69	150	iPn	40	20.00	-0.2
			iPg	40	42.10	
			iSg	41	51.00	
CHTO	5.69	150	e(P)	40	18.80	-1.3
KMI	6.31	77	eP	40	32.50	3.3X
LSA	7.28	325	P	40	43.80	0.8
GUN	9.96	296	P	41	18.70	-1.3
GYA	10.05	73	P	41	21.00	-0.1
PKI	10.23	294	P	41	23.14	-0.6
	0.5s		33.00nm			5.8mb X
KKN	10.41	295	P	41	25.00	-1.1
DMN	10.50	293	P	41	27.22	-0.1
	0.4s		25.00nm			5.8mb X
GKN	11.02	295	P	41	32.74	-1.6
	0.6s		124.00nm			6.3mb X
LZH	14.01	27	eP	42	12.00	-2.2
TIY	19.77	42	eP	43	26.40	0.3
GBA	20.25	243	Pc	43	33.30	2.2
	1.0s		7.90nm			4.0mb
BTO	20.50	32	eP	43	32.80	-0.8
WMQ	21.10	343	iPd	43	40.40	0.7
KOD	22.21	236	eP	43	56.00	4.7X
BJI	23.50	42	eP	44	06.00	2.5
	1.5s		39.00nm			4.7mb
WRA	57.35	136	P	48	53.00	9.7X
	2.9s		1.20nm			3.4mb
MBC	77.83	8	ePd	50	52.00	1.0
	0.9s		6.00nm			4.6mb
INK	81.30	17	eP	51	10.00	0.3
	S.D. = 1.4		on 18 of 21 obs.			

* JAN 05, 1991 15h 45m 00.07± 2.03s
5.328 N ±14.1km 94.145 E ±11.9km
DEPTH = 36.4 ± 18.1 km
5.1mb (4 obs.)

NORTHERN SUMATERA (706)

SNG	6.69	74	eP	46	37.70	-0.8
IPM	6.90	96	ePd	46	42.60	1.2
	0.4s		21.80nm			5.4mb
			e	47	52.00	
GBA	18.41	298	P	49	14.00	-0.3
			S	52	24.00	
PKI	23.63	340	P	50	09.00	-0.3
DMN	23.77	340	P	50	11.10	0.5
GUN	23.79	342	P	50	10.26	-0.7
	0.6s		21.00nm			4.8mb
KKN	23.88	340	P	50	11.76	0.2
GKN	24.29	339	P	50	15.62	0.1
MTN	40.94	116	eP	52	40.40	-0.7
ASPA	48.31	128	iPc	53	40.70	0.4
	0.4s		18.70nm			5.5mb
			eS	00	31.40	
QIS	51.52	121	iPc	54	04.20	-0.6
KAF	75.05	333	eP	56	59.80	20.2X
SOD	76.56	338	eP	56	49.00	0.9
HFS	80.65	330	eP	57	10.70	0.2
	0.5s		2.00nm			4.4mb
	S.D. = 0.7		on 13 of 14 obs.			

JAN 05, 1991 15h 47m 49.16± 0.37s
5.140 N ± 5.6km 32.080 E ± 6.1km
DEPTH = 33.0km (normal)
4.9mb (11 obs.)

SUDAN (557)
mbLg 4.9 (BUL).

AAE	7.68	59	eP	49	43.00	1.2
NAI	7.93	143	iPc	49	46.00	0.7
			S	51	30.00	
LWI	8.03	204	iP-	49	45.90	-0.8
			iS	51	13.90	
BCAO	13.52	268	iPd	51	03.00	1.9
	0.6s		8.00nm			4.8mb
			iS	53	33.90	
			Lg	54	36.20	
KRI	21.96	186	ePn	52	42.00	-0.2
			eSn	56	31.50	
			eLg	58	55.10	
MBH	24.64	6	eP	53	10.00	1.8
PRNI	25.22	6	eP	53	14.50	0.8
DSI	26.47	6	eP	53	29.00	3.8X
TIC	36.93	274	P	54	58.00	0.8
SRO	44.13	347	eP	55	57.20	1.0
LPG	45.86	335	eP	56	09.60	-0.8
	1.1s		13.45nm			4.8mb
LPL	45.88	335	eP	56	09.70	-0.8
	0.8s		6.70nm			4.6mb
KRA	45.92	349	eP	56	10.80	0.4
KHC	46.56	343	iPc	56	16.10	0.5
	1.2s		20.00nm			5.0mb
KSP	47.43	346	eP	56	22.80	0.4
SMF	48.01	334	eP	56	26.60	-0.4
	0.8s		10.75nm			4.9mb
RJF	48.06	331	eP	56	32.20	4.8X
LBF	48.21	334	eP	56	27.80	-0.8
	1.0s		8.00nm			4.7mb
MAF	48.25	333	eP	56	28.90	0.0
	1.1s		25.65nm			5.2mb
AVF	48.33	334	eP	56	29.20	-0.3
	1.1s		14.65nm			4.9mb
TCF	48.46	333	eP	56	30.90	0.3
	1.1s		26.85nm			5.2mb
SSF	48.47	334	eP	56	29.90	-0.7
LOR	48.48	335	eP	56	29.40	-1.3
	1.1s		12.20nm			4.8mb
CLL	48.69	344	iPc	56	31.30	-0.9
GKN	54.76	59	P	57	17.60	-0.8
DMN	55.07	60	P	57	21.20	0.4
KKN	55.26	60	P	57	22.00	-0.2
PKI	55.32	60	P	57	22.20	-0.5
GUN	55.80	60	P	57	25.60	-0.6
NB2	57.95	348	P	57	39.30	-1.2
	0.7s		3.20nm			4.5mb
	S.D. = 0.9		on 28 of 30 obs.			

JAN 05, 1991 16h 04m 14.10± 1.56s
24.012 N ± 4.9km 95.978 E ± 4.1km
DEPTH = 31.9 ± 12.4 km
5.2mb (26 obs.)

BURMA (296)

SHL	4.03	293	iP	05	16.50	1.2
			iS	06	05.00	
CHG	5.86	151	iPn	05	39.00	-2.1
			iPg	06	01.10	
			iSg	07	10.50	
CHTO	5.86	151	eP	05	41.90	0.8
KMI	6.25	78	eP	05	50.50	3.7X
N	10s		30.00um			
LSA	7.12	324	P	06	01.00	1.9
			S	07	23.00	
BDT	7.30	157	ePg	05	59.00	-2.3
			eSg	06	33.00	
LOE	8.49	140	ePg	06	18.50	0.6
			eSg	08	45.00	
NST	9.17	154	eP	06	27.30	0.1
CD2	9.74	43	eP	06	36.20	1.0
	2.0s		500.00nm			6.4mb X
GUN	9.88	295	P	06	36.48	-0.9
	0.7s		731.00nm			7.0mb X
GYA	9.98	74	P	06	37.80	-0.7
N	12s		24.60um			
E	14s		9.10um			
PKI	10.16	293	P	06	40.20	-1.0
	0.8s		275.00nm			6.6mb X

KKN		10.34	294	P	06	42.22	-1.3				e	31	41.00			CVA		7.26	232	eP	22	49.52	-1.7
		0.6s	134.00nm				6.4mb X	KSP	65.37	317	eP	14	56.00	0.5		KAIM		7.32	225	eP	22	54.07	1.8
DMN		10.43	292	P	06	43.86	-1.0	HFS	65.68	327	eP	14	57.00	-0.3		GLI		7.47	238	eP	22	55.24	0.9
		0.6s	134.00nm				6.4mb X		1.2s		26.40nm			5.2mb		GHO		7.58	247	eP	22	56.11	0.3
GKN		10.95	294	P	06	50.44	-1.4	PRU	66.61	316	eP	15	07.50	4.0X		HIN		7.62	233	eP	22	56.70	0.3
		1.0s	2357.00nm				7.3mb X	NB2	66.79	328	P	15	03.60	-0.9		KNK		7.62	244	eP	22	56.96	0.6
LZH		13.82	28	P	07	29.00	-1.2		1.3s		19.00nm			5.0mb		PMR		7.76	247	eP	22	59.20	0.9
		1.5s	130.00nm				5.5mb	BRG	66.84	317	eP	15	03.50	-1.4		PWA		8.02	248	eP	23	03.68	1.8
	Z	15s	13.90um				4.4Msz		1.3s		25.00nm			5.2mb		IMA		8.06	283	eP	23	01.70	-0.9
	E	12s	9.54um								e	15	25.00			PMS		8.14	246	eP	23	04.80	1.1
			sP	07	39.00						e	17	24.00			SIT		8.50	184	e(P)	23	07.00	-1.6
			eS	10	10.00			CLL	67.34	318	eP	15	07.00	-1.1		YKA		9.07	100	eP	23	14.50	-2.0
OIZ		13.82	108	eP	07	30.00	-0.1		1.5s		17.00nm			4.9mb				0.6s	112.50nm				6.3mb X
	N	15s	27.90um					KHC	67.38	315	eP	15	09.00	0.5		TTA		9.86	265	eP	23	26.40	-1.2
	E	14s	14.70um					ADE	71.29	144	eP	15	24.30	-8.2X		SVW		10.60	255	eP	23	38.20	0.6
			eS	10	02.00				1.3s		103.85nm			5.7mb				0.8s	34.20nm				5.7mb X
XAN		15.09	46	P	07	44.50	-2.1	RMO	71.56	131	eP	15	36.00	1.7		MBC		11.76	17	eP	23	50.00	-3.2X
	N	14s	20.80um					DAG	72.21	347	iPc	15	36.00	-1.4				0.5s	73.00nm				6.2mb X
	E	12s	22.70um						0.6s		11.33nm			5.0mb		PNT		17.93	148	P	25	17.00	3.7X
GTA		15.69	11	iPc	07	59.00	4.4X	BRW	72.82	19	eP	15	41.80	0.8				1.1s	2.00nm				3.2mb X
		1.4s	100.00nm				4.8mb	IMA	76.13	23	eP	16	00.60	0.2		FFC		19.06	109	eP	25	23.00	-4.1X
			pP	08	05.00				1.7s		69.40nm			5.4mb				0.8s	51.00nm				4.8mb
			sP	08	10.00			KRI	76.43	244	iPc	16	00.00	-2.9		SES		19.28	131	eP	25	29.00	-1.0
SNG		17.32	164	eP	08	16.10	0.9	MBC	77.62	8	eP	16	08.50	0.2		LRM		22.97	139	eP	26	08.40	0.3
			e	12	56.00				1.1s		22.00nm			5.1mb		WDC		25.83	159	eP	26	37.30	2.0
ND1		17.44	289	iPc	08	18.60	2.0	SVW	77.67	28	eP	16	10.30	1.4		FRB		27.03	63	eP	26	46.00	0.0
		0.7s	85.62nm				5.0mb	FBA	78.84	23	eP	16	15.30	0.1		TNP		29.18	152	P	27	07.00	1.0
			eS	11	19.00			BUL	78.92	242	iPd	16	19.20	2.6				1.0s	4.25nm				4.2mb
HYB		17.56	251	ePc	08	17.50	-0.7	PWA	79.80	26	eP	16	20.30	-0.1		DAG		32.50	23	iPd	27	34.70	0.1
		1.2s	171.40nm				5.1mb	BFT	80.67	237	iPc	16	25.50	-0.5				0.5s	11.97nm				5.1mb
			eS	11	20.00				0.7s		10.27nm			4.9mb		SCH		33.46	76	eP	27	43.00	-0.3
WHN		17.57	64	eP	08	20.00	1.8	INK	81.09	17	eP	16	27.00	-0.2		ANMO		34.75	138	P	27	55.00	0.2
TIY		19.61	42	iPd	08	43.20	0.4	SLR	82.05	237	iPd	16	32.50	-0.6				0.8s	4.66nm				4.4mb
IPM		19.92	165	ePc	08	47.20	1.0		1.0s		20.00nm			5.1mb		ALQ		34.75	138	eP	27	55.00	0.2
		1.9s	462.80nm				5.5mb	KSR	83.19	238	iPd	16	37.00	-2.0				0.9s	6.30nm				4.5mb
			e	14	54.80				1.0s		20.00nm			5.2mb		SOD		46.70	10	iP	29	32.30	-0.1
GBA		20.35	243	P	08	51.10	0.4	WIN	89.50	245	iPd	17	13.50	3.5X		NB2		51.16	21	P	30	06.20	-0.8
			S	12	31.10			YKA	90.41	14	P	17	12.50	-0.9				0.9s	8.30nm				4.7mb
WMO		20.90	343	iPd	08	57.00	0.8	BAO	145.17	277	ePKPc	23	36.00	-15.0X		KAF		51.87	12	eP	30	15.60	3.3X
	Z	15s	21.90um				5.7MszX	PPD	149.87	267	ePKP	24	04.10	5.9X		HFS		52.39	20	eP	30	14.70	-1.6
HHC		21.27	34	P	09	05.20	5.1X				e	24	08.60					0.8s	14.10nm				4.9mb
		1.8s	500.00nm				5.6mb	ZOBO	163.21	294	PKP	24	18.00	2.4X		NUR		53.30	13	eP	30	22.60	-0.4
POO		21.32	259	iPd	09	02.50	1.9	LPB	163.32	294	PKP	24	18.00	2.5X		EKA		53.86	32	P	30	29.00	1.8
			iS	12	46.00			CNCB	163.35	293	PKP	24	18.00	2.2X				1.0s	23.70nm				5.2mb
NJ2		21.69	63	Pd	09	05.00	0.8		S.D. = 1.4		on	72	of	88	obs.		CN2		55.10	300	eP	30	36.20	-0.3
		1.6s	300.00nm				5.5mb	----------									FLN		60.58	33	eP	31	13.90	-1.0
			sP	09	22.00				JAN 05, 1991 16h 21m 03.48± 0.58s								CLL		60.80	23	iPd	31	16.50	0.1
BOM		22.14	261	iPc	09	10.40	1.7		65.505 N ± 3.2km 134.110 W ± 3.3km								LPF		61.14	34	eP	31	18.30	-0.4
			iS	13	09.40				DEPTH = 16.3 ± 4.6 km										1.1s	39.05nm				5.5mb
KOD		22.34	235	eP	09	12.00	0.9		5.1mb (23 obs.)								BRG		61.38	22	eP	31	12.50	-7.8X
KSH		22.87	317	eP	09	21.00	5.0X		NORTHERN YUKON TERRITORY, CANADA(677)										2.2s	68.00nm				5.4mb
	N	12s	17.50um																	e	31	25.00	
KGM		22.99	161	eP	09	20.00	2.8	DWY	2.70	240	P	21	47.70	0.7										
BJI		23.34	42	Pc	09	22.00	1.6	INK	2.82	4	eP	21	50.00	1.3										
		1.5s	310.00nm				5.6mb	SPY	3.71	342	P	22	02.80	1.5										
SSE		23.41	67	Pd	09	22.50	1.4	TMW	4.43	244	eP	22	11.62	0.1										
		1.5s	210.00nm				5.4mb				eS	23	05.80										
DL2		26.33	50	eP	09	49.30	0.5	DOT	4.68	251	eP	22	14.67	-0.4										
		1.2s	200.00nm				5.6mb				eS	23	11.94										
QUE		26.52	290	eP	09	52.60	1.6	WHC	4.81	186	P	22	15.80	-1.1										
SNY		29.01	46	iPc	10	12.70	-0.4				S	23	33.00										
		1.8s	300.00nm				5.7mb	HYT	4.94	200	P	22	17.50	-1.4										
CN2		31.18	43	eP	10	31.00	-1.4	DDM	5.34	257	eP	22	25.28	0.9										
MAIO		33.65	300	iPc	10	55.40	1.2	HDA	5.57	264	eP	22	25.54	-2.0										
MDJ		34.19	45	Pc	11	02.00	3.3X	PAX	5.57	248	eP	22	27.31	-0.4										
MAT		38.26	61	eP	11	32.00	-1.2	CTGM	5.60	219	eP	22	28.39	0.2										
		1.5s	125.00nm				5.5mb	FBA	5.79	270	eP	22	29.30	-1.4										
TAB		44.29	301	eP	12	24.00	1.1	BALM	5.82	223	eP	22	30.94	-0.3										
KAS		54.03	305	iPd	13	38.40	0.7	SDG	5.84	245	eP	22	30.69	-0.8										
HRT		57.16	304	iP	13	59.70	-0.6	CCB	5.86	268	eP	22	29.30	-2.3										
ELL		57.39	299	iP	14	01.00	-1.1	GLB	5.96	231	eP	22	32.31	-0.7										
WRA		57.50	136	P	14	01.00	-1.8	MDM	5.96	271	eP	22	31.42	-1.7										
		1.1s	11.20nm				4.8mb	BCPM	6.12	207	eP	22	36.19	0.9										
VRI		58.95	310	eP	14	16.50	3.8X	PLBC	6.16	191	P	22	35.00	-0.9										
MLR		59.52	310	eP	14	20.00	3.2X	TGL	6.19	224	eP	22	37.03	0.7										
KAF		59.57	329	eP	14	16.50	-0.2	YAH	6.22	218	eP	22	37.72	0.7										
		1.1s	23.20nm				5.2mb	TOA	6.33	243	eP	22	39.90	1.5										
ASPA		60.01	139	eP	14	19.40	-0.8	PNL	6.34	205	iP	22	38.24	-0.3										
		1.3s	19.60nm				5.1mb	HON	6.46	202	eP	22	39.59	-0.6										
NUR		60.23	327	eP	14	24.10	2.8	KLU	6.64	238	eP	22	42.65	-0.1										
SPC		63.05	314	eP	14	40.20	-0.5	BWN	6.68	265	eP	22	41.92	-1.3										
KRA		63.15	315	eP	14	23.30	-17.8X	RND	6.71	258	eP	22	41.98	-1.8										
			e	14	40.70			HMT	6.95	226	eP	22	47.98	1.0										
SKO		63.17	306	eP	14	38.80	-2.5	VLZ	7.03	237	eP	22	47.39	-0.7										
UPP		63.74	327	iP	14	45.20	0.5	RAGM	7.03	228	eP	22	50.73	2.5X										
SRO		64.49	313	e(P)	14	48.00	-1.9	SGAM	7.11	230	eP	22	50.35	1.0										
ZST		65.24	314	eP	14	54.40	-0.3	VZW	7.16	237	eP	22	50.49	0.5										

05d 16h

PKI	82.36	325	P	33 26.68	0.8
DMN	82.39	326	P	33 27.40	1.4

S.D. = 1.0 on 86 of 92 obs.

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* JAN 05, 1991 16h 22m 52.30± 2.43s
36.390 N ±16.1km 21.594 E ±19.1km
DEPTH = 10.0km (geophysicist)
SOUTHERN GREECE (368)
MD 3.4 (ATH).

ITM	0.83	19	ePb	23 10.30	1.9
VLI	1.13	73	iPgc	23 12.80	-0.7
VLS	1.96	336	ePg	23 38.00	12.1X
VAM	2.33	114	ePn	23 31.90	0.6
EVR	2.53	4	ePn	23 37.30	3.2X
AGG	2.69	12	eP	23 38.40	2.0
			eS	24 12.68	
NPS	3.45	108	ePb	23 51.90	4.7X
LIT	3.77	11	iP	23 52.17	0.4
			eS	24 39.12	
PAIG	3.90	24	iP	23 52.36	-1.1
FNA	4.39	358	eP	24 00.32	-0.2
GRG	4.60	8	iP	24 03.10	-0.4
SOH	4.63	17	eP	24 03.60	-0.4
OHR	4.75	353	ePn	24 05.30	-0.5
KNT	4.87	12	eP	24 07.08	-0.3
SRS	4.97	18	eP	24 07.44	-1.3

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

% JAN 05, 1991 16h 53m 18.99± 2.69s
2.328 N ±16.0km 76.309 W ±18.7km
DEPTH = 10.0km (geophysicist)
COLOMBIA (103)
MD 3.1 (UVC).

PURC	0.05	263	ePc	53 21.39	-0.2
			eS	53 27.50	
SILC	0.36	355	ePc	53 26.15	-0.3
			eS	53 35.80	
SALC	0.75	329	ePc	53 34.02	0.3
			eS	53 49.60	
DIAC	0.96	7	iPc	53 36.66	-0.8
HOOC	1.18	344	eP	53 41.05	-0.1
			eS	54 01.90	
ANCC	1.30	335	eP	53 43.34	0.2
HOBC	2.02	5	eP	53 54.57	1.0

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

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* JAN 05, 1991 17h 56m 43.15± 1.14s
35.346 N ±12.0km 27.879 E ± 7.0km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)
MD 4.0 (ATH).

ARG	0.89	13	ePb	56 58.80	-1.4
KSL	1.59	60	ePb	57 12.00	0.7
YER	1.81	10	iPn	57 15.80	1.1
NPS	1.86	268	ePn	57 16.90	1.6
ELL	2.16	49	iPn	57 21.00	1.2
CIN	2.26	4	eP	57 21.00	0.0
SMG	2.50	341	ePg	57 26.50	2.0
APE	2.56	313	ePn	57 24.20	-1.2
VAM	3.01	272	ePn	57 33.00	1.3
IZM	3.09	351	ePn	57 32.00	-0.8
KHL	3.25	23	ePn	57 35.60	0.3
ALT	4.11	25	eP	57 58.00	10.6X
VLI	4.23	290	ePn	57 48.20	-0.9
CSS	4.48	93	eP	57 51.00	-1.7
ITM	5.15	293	ePn	58 00.00	-2.1
VAY	7.28	327	iPg	59 29.70	57.6X
			iSg	59 33.40	

S.D. = 1.5 on 14 of 16 obs.

? JAN 05, 1991 18h 06m 14.98± 2.27s
27.132 N ±16.5km 67.059 E ±22.5km
DEPTH = 33.0km (normal)
4.5mb (5 obs.)
PAKISTAN (710)

QUE	3.05	358	eP	07 02.10	0.0
			eS	08 17.50	
POO	10.60	142	eP	08 56.50	8.8X
MAIO	11.18	327	eP	08 48.00	-7.6X
HYB	14.37	130	eP	09 38.00	0.0
GKN	15.62	83	P	09 54.40	0.0
	0.9s	42.00nm			4.6mb
DMN	16.04	84	P	10 01.60	1.6
KKN	16.19	83	P	10 01.20	-0.6
	0.7s	24.00nm			4.5mb
PKI	16.31	84	P	10 03.60	0.1
	0.7s	20.00nm			4.3mb
GUN	16.72	83	P	10 07.14	-1.5
	0.9s	78.00nm			4.8mb
SHL	22.29	88	eP	11 12.50	1.3
			eS	15 24.00	
CHTO	30.43	99	e(P)	12 26.10	-0.7
	1.0s	1.50nm			3.7mb

S.D. = 1.1 on 9 of 11 obs.

% JAN 05, 1991 18h 17m 43.91± 0.50s
40.823 N ± 5.1km 28.604 E ± 3.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

ISK	0.42	55	iPg	17 52.60	0.1
			iSg	17 58.10	
YLV	0.64	113	iPg	17 56.60	-0.2
			eSg	18 05.10	
BNT	0.70	228	iPg	17 57.60	-0.1
			eSg	18 07.00	
EDC	0.74	230	ePg	17 58.00	-0.4
HRT	0.81	90	iPg	17 59.60	0.0
			iSg	18 10.10	
IZI	0.82	126	iPg	17 59.80	-0.1
			iSg	18 11.10	
KGT	1.06	250	iPn	18 04.10	0.3
DMK	1.18	328	iPn	18 06.00	0.0
DST	1.22	179	ePn	18 07.00	0.4

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

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* JAN 05, 1991 18h 50m 17.22± 0.90s
44.444 N ±18.6km 147.502 E ±11.6km
DEPTH = 33.0km (normal)
4.9mb (21 obs.)
KURIL ISLANDS (221)

MAT	10.59	225	eP	52 49.00	-0.8X
CN2	15.85	275	eP	54 03.40	4.1X
BJI	23.53	270	eP	55 26.00	1.0
	1.0s	12.00nm			4.4mb
TIY	27.13	268	Pd	56 04.40	5.3X
LZH	34.01	271	Pc	57 00.00	-0.1
	1.5s	31.00nm			5.0mb
GTA	35.43	279	Pc	57 13.30	1.0
	0.8s	10.00nm			4.8mb
WMQ	42.08	291	iPc	58 08.90	1.4
			pP	58 14.00	17kmX
			sP	58 19.00	
INK	45.68	31	eP	58 37.00	0.9
CHTO	47.72	254	eP	58 53.20	0.4
	0.8s	4.03nm			4.5mb
MBC	48.08	19	eP	58 55.00	0.1
GUN	51.23	273	P	59 20.20	0.1
KKN	51.73	273	P	59 23.90	0.2
PKI	51.77	273	P	59 24.00	-0.2
DMN	51.96	273	P	59 25.90	0.4
GKN	52.06	274	P	59 25.90	-0.3
YKA	55.09	34	P	59 48.30	0.5
HYB	63.05	268	eP	00 42.00	-1.6
KAF	63.81	333	eP	00 46.30	-1.6
	0.5s	3.10nm			4.7mb
NUR	65.54	333	eP	00 57.50	-1.6
LRM	65.71	49	eP	01 01.10	0.3
GBA	66.39	266	P	01 03.00	-2.2
FRB	68.44	16	eP	01 16.00	-1.4
NB2	69.05	339	P	01 20.10	-1.2
	0.8s	6.50nm			4.7mb
HFS	69.15	337	eP	01 20.40	-1.4
	0.4s	5.20nm			4.9mb
KSP	76.09	331	eP	02 03.40	0.5
ALQ	76.39	54	eP	02 05.00	-0.2
CLL	76.82	333	iP	02 06.50	-0.4
	1.2s	26.00nm			5.1mb
SOTA	80.93	332	iPc	02 30.00	0.5
	0.7s	6.70nm			4.7mb
CDF	81.17	334	eP	02 30.90	0.2
	0.7s	7.70nm			4.8mb
BSF	81.83	334	eP	02 34.10	-0.1
	0.7s	5.50nm			4.7mb
LOR	83.22	336	eP	02 41.50	0.2
	0.7s	8.80nm			5.0mb
LBF	83.44	336	eP	02 42.70	0.2
	0.8s	8.75nm			4.9mb
SSF	83.51	336	eP	02 43.20	0.5
	0.7s	7.15nm			4.9mb
SMF	83.79	336	eP	02 44.70	0.5
	0.8s	17.45nm			5.3mb
AVF	83.80	336	eP	02 44.80	0.6
	0.8s	13.45nm			5.1mb
LPL	83.91	333	eP	02 45.20	0.1
	1.0s	8.00nm			4.8mb
LPG	83.92	333	eP	02 45.40	0.1
	0.7s	6.60nm			4.9mb
MAF	84.54	336	eP	02 48.40	0.4
	0.8s	10.75nm			5.1mb
TCF	84.58	337	eP	02 49.00	0.8
LSF	84.81	337	eP	02 50.10	0.8
	0.7s	9.90nm			5.1mb
LMR	85.93	333	eP	02 55.60	0.7
	1.1s	24.40nm			5.3mb

S.D. = 0.9 on 38 of 41 obs.

JAN 05, 1991 19h 03m 22.37± 1.74s
2.728 N ± 6.6km 128.251 E ± 8.4km
DEPTH = 175.1 ± 18.1 km
4.8mb (13 obs.)
HALMAHERA (267)

TSM	10.27	279	eP	05 47.50	1.0
MTN	15.73	170	eP	06 55.80	-0.2
OIS	25.68	155	iPc	08 38.10	0.1
			i	09 09.00	
ASPA	26.81	168	iPc	08 47.80	-0.4
	2.0s	6.30nm			3.9mb
			i	09 20.10	
			iPcP	12 07.10	
WARB	28.78	183	eP	09 06.00	0.0
NJ2	30.48	344	Pd	09 20.80	0.0
WHN	30.63	336	eP	09 23.50	1.3
GYA	31.40	321	P	09 28.80	-0.3
CHG	32.84	301	eP	09 41.20	-0.4
CHTO	32.84	301	iP	09 41.50	-0.1
	1.2s	18.06nm			4.6mb
			pP	10 11.00	136kmX
KMI	33.16	314	Pd	09 45.00	0.5
	1.5s	63.00nm			5.1mb
MAT	34.88	14	eP	09 56.00	-2.8
	0.5s	11.97nm			4.8mb
XAN	36.00	332	iPc	10 07.40	-0.9
CD2	36.35	323	iPd	10 11.10	-0.2
TIY	37.72	339	eP	10 23.40	0.6
BJI	38.72	345	eP	10 30.00	-0.9
	1.0s	10.00nm			4.4mb
SNY	39.15	354	iPd	10 33.40	-1.0
LZH	40.14	329	iP	10 43.50	0.7
	1.2s	55.00nm			5.1mb
HHC	40.83	341	P	10 49.20	0.8
MDJ	41.73	1	eP	10 55.00	-0.5
LSA	44.24	311	Pc	11 17.60	1.0
GTA	44.73	328	Pc	11 20.20	0.2
	1.0s	10.00nm			4.3mb
			PcP	12 59.90	
GUN	47.54	306	P	11 42.70	0.2
PKI	47.78	305	P	11 44.00	-0.4
KKN	47.98	306	P	11 45.40	-0.3
	0.9s	57.00nm			5.1mb
DMN	48.05	305	P	11 46.30	0.0
	0.9s	67.00nm			5.2mb
GKN	48.58	306	P	11 50.00	-0.3
	0.8s	38.00nm			5.0mb
HYB	50.88	290	ePc	12 07.50	-0.3
	1.0s	50.00nm			5.1mb
KOD	50.95	281	eP	12 08.00	-0.7
GBA	51.34	285	P	12 10.50	-0.8
WMQ	54.41	325	iPd	12 33.40	-0.2
MAIO	71.32	307	iPc	14 25.00	-0.1
TTA	81.10	27	eP	15 20.30	1.1
BRW	82.64	18	eP	15 28.30	1.4
IMA	82.68	24	ePc	15 28.80	1.4
	0.7s	8.60nm			4.6mb
PMR	84.09	28	eP	15 34.80	0.5
	0.9s	12.50nm			4.7mb

S.D. = 0.9 on 36 of 36 obs.

% JAN 05, 1991 19h 56m 24.67± 0.[illegible]s
39.241 N ± 5.5km 28.678 E ± 7.[illegible]km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.8 (ISK).

DST	0.37	354	iPg	56	31.30	-0.9
			eSg	56	37.00	
ALT	1.13	99	ePn	56	46.10	0.2
KHL	1.13	144	ePg	56	45.70	-0.2
IZI	1.25	29	ePn	56	48.00	0.0
EDC	1.27	331	ePn	56	49.00	0.8
IZM	1.39	233	ePn	56	50.00	-0.1
YLV	1.43	22	iPn	56	51.00	0.3

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

JAN 05, 1991 20h 26m 50.75± 0.59s
43.086 N ± 6.9km 0.126 E ± 4.0km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 3.1 (LDG). Felt (III) at Bogneres de Bigorre.

EPF	0.17	109	Pg	26	54.70	0.1
			Sg	26	57.30	
BTH	0.25	279	Pg	27	01.10	5.1X
			iSg	27	02.50	
JAU	0.37	263	Pg	26	58.58	0.3
			Sg	27	03.82	
OGE	0.45	281	Pg	27	00.66	0.8
			Sg	27	07.76	
ESCF	0.51	269	Pg	27	01.05	-0.1
			Sg	27	08.89	
LHE	0.57	253	Pg	27	01.91	-0.6
			Sg	27	09.56	
ATE	0.61	270	Pg	27	03.04	0.0
			Sg	27	11.51	
ISSF	0.68	265	Pg	27	04.17	-0.1
			Sg	27	13.40	
MADF	0.69	275	Pg	27	04.32	-0.2
LPO	1.77	25	Pg	27	25.60	4.0X
			Sg	27	50.40	
LFF	1.91	13	Pn	27	23.60	0.1
			Pg	27	28.20	
			Sg	27	54.00	
CAF	2.31	37	Pg	27	35.20	5.7X
			Sg	28	07.00	
RJF	2.43	24	Pn	27	31.60	0.4
			Pg	27	37.50	
			Sg	28	09.60	
LSF	3.32	17	Pg	27	54.00	10.3X
			Sg	28	37.00	
MFF	3.52	357	Pn	27	45.80	-0.8
			Pg	27	58.00	
			Sg	28	44.00	
TCF	3.53	24	Pg	27	58.00	11.3X
			Sg	28	45.00	
MAF	3.59	28	Pg	27	59.20	11.7X
			Sg	28	46.20	
BGF	3.97	28	Pg	28	07.00	14.0X
			Sg	28	58.00	
AVF	4.36	31	Pg	28	13.00	14.6X
			Sg	29	10.00	

S.D. = 0.5 on 11 of 19 obs.

% JAN 05, 1991 20h 32m 19.26± 0.51s
40.737 N ± 5.4km 28.626 E ± 4.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.9 (ISK).

ISK	0.46	45	iPg	32	28.60	-0.1
			iSg	32	34.60	
YLV	0.59	106	iPg	32	31.00	-0.3
			iSg	32	39.00	
BNT	0.66	235	iPg	32	31.80	-0.6
			iSg	32	41.50	
EDC	0.70	236	ePg	32	32.50	-0.6
IZI	0.76	122	iPg	32	34.50	0.3
			iSg	32	44.50	
HRT	0.80	84	iPg	32	34.60	-0.2
			iSg	32	46.10	
KGT	1.05	255	iPn	32	39.60	0.6
DST	1.13	180	iPn	32	41.00	0.5
DMK	1.27	329	iPn	32	43.00	0.2

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

% JAN 05, 1991 20h 34m 46.04± 0.62s
40.716 N ± 6.9km 28.639 E ± 4.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ISK	0.47	42	ePg	35	01.00	5.4X
			iSg	35	21.60	
YLV	0.58	105	iPg	34	57.20	-0.6
			iSg	35	06.00	
BNT	0.66	237	iPg	34	58.70	-0.4
			iSg	35	08.50	
EDC	0.70	238	ePg	34	59.00	-0.8
IZI	0.74	121	iPg	35	00.80	0.2
			iSg	35	11.00	
HRT	0.79	82	iPg	35	01.60	0.2
			eSg	35	15.10	
KGT	1.05	256	iPn	35	06.60	0.8
DST	1.11	180	iPn	35	07.50	0.6
DMK	1.29	329	iPn	35	10.00	0.1

S.D. = 0.7 on 8 of 9 obs.

JAN 05, 1991 20h 39m 23.87± 0.64s
42.831 N ± 8.3km 17.507 E ± 5.5km
DEPTH = 5.0km (geophysicist)
ADRIATIC SEA (382)
ML 2.6 (TTG).

BRY	0.77	84	ePg	39	37.00	-2.3
			eSg	39	49.50	
HCY	0.83	117	ePg	39	40.20	-0.1
			eSg	39	52.30	
HVAR	0.85	294	ePg	39	39.10	-1.6
			iSg	39	51.80	
NKY	1.10	90	ePg	39	45.80	0.8
			eSg	40	01.20	
BDV	1.12	119	ePg	39	45.10	-0.2
			eSg	40	01.20	
TTG	1.35	107	ePg	39	50.00	0.7
			eSg	40	10.60	
PLE	1.47	70	ePg	39	51.50	0.4
			eSg	40	14.00	
ULC	1.56	123	ePg	39	52.50	0.2
			eSg	40	16.00	
IVA	1.76	88	ePn	39	57.00	1.7X
			eSn	40	21.50	
PVY	1.83	97	ePn	39	57.50	1.1
			eSn	40	24.00	
BRT	1.97	187	P	39	57.50	-0.7
DUI	2.55	244	P	40	08.00	1.4
ORI	2.88	196	P	40	16.00	4.7X
SDI	2.96	249	P	40	16.00	3.5X
OHR	3.00	124	ePn	40	12.50	-0.5
PTJ	3.26	341	eP	40	17.70	0.9

S.D. = 1.2 on 13 of 16 obs.

? JAN 05, 1991 20h 59m 32.12± 6.10s
2.610 N ±33.7km 76.857 W ±27.9km
DEPTH = 10.0km (geophysicist)
COLOMBIA (103)
MD 3.7 (UVC).

SALC	0.39	24	iPc	59	40.30	0.0
			eS	20	56.90	
SILC	0.52	81	eP	59	42.70	-0.1
HOQC	0.88	15	eP	59	48.60	-0.6
			eS	00	11.00	
ANCC	0.90	359	ePc	59	49.70	0.3
DIAC	0.94	44	eP	59	50.60	0.4
			eS	00	13.40	

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

JAN 05, 1991 21h 51m 20.70± 0.33s
15.651 N ± 5.3km 147.799 E ± 5.6km
DEPTH = 34.4km (5 depth phases)
4.9mb (15 obs.) 4.1Msz (1 obs.)
MARIANA ISLANDS REGION (215)

GUA	3.50	233	eP	52	14.20	0.1
			eS	52	52.30	
PJG	3.50	235	eP	52	14.80	0.7
KAKJ	21.57	343	P	56	09.10	-0.2
IIDJ	21.64	338	P	56	10.60	0.5
CHJJ	21.78	340	P	56	12.10	0.6
MAT	22.49	339	(P)	56	18.00	-0.5
	1.0s		35.00nm			4.8mb
MTMJ	22.67	339	P	56	21.50	1.1
NIIJ	22.87	342	P	56	23.40	1.1
OFUJ	23.95	348	P	56	34.20	1.5
SSE	28.76	307	P	57	15.20	-2.2
	Z 20s		0.50um			4.1Msz
CN2	33.89	330	eP	58	02.00	-0.4
WHN	34.00	302	eP	58	03.50	0.0
BJI	36.72	318	eP	58	24.50	-2.0
	1.5s		26.00nm			4.9mb
WRA	37.77	201	P	58	35.00	-0.5
	0.8s		9.30nm			4.7mb
TIY	38.15	312	eP	58	40.60	1.9
XAN	39.45	305	iPc	58	49.60	0.0
GYA	39.71	293	P	58	52.80	0.9
HHC	40.17	316	eP	58	56.00	0.5
BTO	41.10	315	eP	59	03.00	-0.1
ASPA	41.37	199	iPc	59	05.20	-0.2
	0.6s		12.80nm			4.8mb
			i	59	15.20	34km
CD2	42.92	299	P	59	18.20	0.1
KMI	43.11	290	Pc	59	21.00	1.1
NST	45.82	277	eP	59	45.80	4.4X
WARB	46.40	207	eP	59	47.00	1.1
	0.4s		2.00nm			4.4mb
CHG	46.66	281	eP	59	50.00	1.9
CHTO	46.66	281	eP	59	48.10	0.0
	0.9s		7.03nm			4.6mb
			pP	59	58.30	34km
BDT	46.73	279	eP	59	44.00	-4.6X
GTA	48.00	309	Pd	59	58.60	0.0
	0.8s		10.00nm			4.9mb
			PcP	01	27.00	
WMQ	57.82	312	P	01	11.00	-0.4
			pP	01	21.00	33km
GUN	58.25	293	P	01	14.52	-0.4
	0.9s		37.00nm			5.5mb
PKI	58.68	293	P	01	16.92	-1.0
	0.7s		10.00nm			5.0mb
KKN	58.79	293	P	01	17.72	-0.8
	0.8s		22.00nm			5.3mb
DMN	58.95	293	P	01	19.00	-0.7
	0.9s		24.00nm			5.3mb
GKN	59.35	293	P	01	21.62	-0.7
	0.9s		51.00nm			5.6mb
SVW	60.52	28	eP	01	29.40	-0.3
IMA	63.26	23	eP	01	47.70	-0.4
	1.0s		5.00nm			4.6mb
PMS	63.34	29	eP	01	47.50	-1.0
HYB	66.07	282	eP	02	06.20	-0.7
GBA	67.82	279	P	02	17.30	-0.7
KOD	68.50	275	eP	02	22.00	-0.7
POO	70.28	284	iPc	02	32.80	-0.4
INK	71.39	23	eP	02	38.50	-0.5
			pP	02	49.00	34km
MBC	75.59	14	ePd	03	03.20	-0.2
	1.0s		18.00nm			5.0mb
			pP	03	14.50	37km
MAIO	79.57	305	iPc	03	27.30	1.1
YKA	79.73	28	eP	03	25.20	-1.2
	0.8s		2.80nm			4.3mb
PRS	81.55	55	eP	03	37.60	1.0
CMB	81.93	53	eP	03	39.50	0.9
FRI	82.70	54	eP	03	43.30	0.8
SES	85.03	39	eP	03	54.00	-0.1
LRM	85.55	44	eP	03	57.10	0.0
ALQ	93.55	52	eP	04	35.00	0.0
KIC	145.10	307	PKPd	10	56.68	-0.5
	0.9s		40.00nm			
TIC	145.14	307	PKP	10	56.68	-0.6
LIC	145.41	307	PKPd	10	57.54	-0.2
	0.9s		42.00nm			
ZOBO	145.48	96	PKP	10	59.00	0.5
LPB	145.53	97	PKP	11	01.00	2.6X
CNCB	145.65	97	PKP	11	01.00	2.2X

S.D. = 0.9 on 53 of 57 obs.

? JAN 05, 1991 21h 53m 59.04± 6.03s
4.439 N ±44.4km 76.728 W ±37.6km
DEPTH = 33.0km (normal)
COLOMBIA (103)
MD 2.6 (UVC).

CLMC	0.58	163	ePc	54	12.43	1.5
			eS	54	24.00	
HOBC	0.60	98	eP	54	11.18	0.0
			eS	54	21.90	
ANCC	0.93	189	eP	54	15.80	0.0
			eS	54	29.90	
HOQC	0.97	174	eP	54	16.15	-0.4
DIAC	1.26	155	eP	54	19.58	-1.0
SALC	1.46	179	eP	54	23.28	-0.2
			eS	54	43.00	

S.D. = 1.1 on 6 of 6 obs.

JAN 05, 1991 22h 44m 38.12± 0.79s

05d 22h

39.715 N ± 8.8km 20.263 E ± 6.9km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)

KEK	0.36	270	eP	44	45.40	-0.1
			eS	44	54.40	
KZN	1.30	62	eP	45	01.00	-1.3
			eS	45	24.50	
EVR	1.44	123	eP	45	04.50	0.2
OHR	1.45	16	ePn	45	05.00	0.5
VLS	1.56	170	eP	45	05.50	-0.4
			eS	45	27.60	
NEO	2.33	99	eP	45	18.00	0.9
PLG	2.53	74	eP	45	23.50	3.6X

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

? JAN 05, 1991 23h 19m 51.88± 0.91s
48.486 N ±16.9km 153.650 E ±18.7km
DEPTH = 33.0km (normol)
4.5mb (6 obs.)
KURIL ISLANDS (221)

INK	40.00	34	eP	27	25.50	1.0
MBC	42.84	21	eP	27	49.00	1.2
YKA	49.32	38	eP	28	38.50	-0.7
	0.6s		2.90nm			4.5mb
FFC	59.18	41	iPc	29	50.50	-1.1
	0.6s		7.00nm			5.0mb
KAF	62.02	335	eP	30	11.10	0.3
NUR	63.79	335	eP	30	22.30	-0.1
NB2	66.70	341	P	30	40.70	-0.5
	0.8s		3.10nm			4.5mb
HFS	66.96	340	eP	30	42.00	-0.8
	0.5s		1.90nm			4.4mb
WRA	70.27	199	P	31	04.00	0.3
	0.4s		0.90nm			4.2mb
CLL	75.03	336	iPd	31	32.00	0.5
	1.3s		17.00nm			4.9mb

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

JAN 06, 1991 00h 13m 37.86± 0.53s
36.243 N ± 5.1km 27.747 E ± 5.0km
DEPTH = 28.5 ± 4.9 km
DODECANESE ISLANDS (369)
MD 3.9 (ATH).

ARG	0.31	95	iPgd	13	45.10	-0.2
CIN	1.38	11	eP	14	02.00	0.7
KSL	1.49	94	iPbc	14	06.20	3.3X
			eSb	14	28.20	
SMG	1.63	334	ePb	14	04.50	-0.5
ELL	1.81	73	iPn	14	11.50	3.7X
APE	1.96	295	ePb	14	09.60	-0.3
NPS	1.99	241	iPnd	14	11.30	1.0
IZM	2.18	350	iPn	14	13.60	0.6
KHL	2.51	34	iPn	14	18.80	1.0
VAM	3.00	255	ePb	14	28.00	3.4X
PRK	3.22	339	ePn	14	26.90	-0.7
ALT	3.38	33	ePn	14	30.50	0.5
DST	3.43	11	ePn	14	30.00	-0.7
VLI	3.91	278	ePn	14	37.90	0.5
PPCY	3.99	109	eP	14	40.50	2.0
EDC	4.10	1	ePn	14	40.00	-0.1
BNT	4.11	2	ePn	14	40.00	-0.3
KGT	4.22	355	iPn	14	41.50	-0.3
CSS	4.73	104	eP	14	50.30	1.2
ITM	4.77	283	ePn	14	52.80	3.1X
ADI	6.92	115	eP	15	20.00	0.0
ZNT	7.23	121	eP	15	23.00	-1.4
			eS	16	43.00	
DSI	7.87	124	eP	15	32.50	-0.8
PRNI	8.45	132	eP	15	40.00	-1.4

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

• JAN 06, 1991 01h 07m 51.01± 2.48s
13.551 N ±14.5km 120.879 E ±17.4km
DEPTH = 152.2 ± 22.2 km
4.7mb (6 obs.)
MINDORO, PHILIPPINE ISLANDS (250)

PPR	4.30	210	iPc	08	56.00	0.0
			iS	09	46.00	
CHTO	21.70	287	eP	12	31.30	0.5
	0.9s		4.05nm			3.9mb
LZH	27.16	329	iPc	13	22.50	0.3
	1.4s		52.00nm			5.0mb
			pP	13	26.50	14kmX
GUN	35.57	299	Pc	14	36.00	0.0
	0.4s		38.00nm			5.5mb X
PKI	35.88	298	P	14	38.12	-0.4
	0.4s		25.00nm			5.2mb X
KKN	36.05	299	P	14	39.38	-0.4
	0.5s		26.00nm			5.2mb X
DMN	36.15	298	P	14	40.34	-0.4
	0.6s		23.00nm			5.1mb
GKN	36.65	299	Pc	14	44.16	-0.7
	0.6s		18.00nm			5.0mb
ASPA	39.12	161	eP	15	04.20	-1.1
	0.3s		2.80nm			4.5mb
WARB	39.89	172	eP	15	12.40	0.9
GBA	42.19	275	P	15	31.20	0.7
YKA	92.85	23	eP	20	47.70	0.4
	0.8s		0.80nm			4.0mb

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

JAN 06, 1991 01h 43m 53.57± 0.77s
43.049 N ± 6.4km 18.750 E ± 5.0km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.5 (TTG).

BRY	0.21	226	iPgd	43	57.57	-0.7
			iSg	44	00.90	
NKY	0.30	142	iPgc	44	00.00	0.2
			iSg	44	05.64	
PLE	0.55	59	iPgc	44	04.05	-0.6
			iSg	44	12.84	
HCY	0.63	197	iPgd	44	06.00	-0.2
			iSg	44	15.76	
TTG	0.72	149	iPgc	44	06.85	-0.9
			iSg	44	19.49	
BDV	0.77	176	iPgd	44	08.35	-0.2
			iSg	44	21.19	
IVA	0.86	101	iPgd	44	10.25	0.0
			iSg	44	23.95	
PVY	1.01	116	iPgc	44	13.75	1.0
			iSg	44	29.67	
ULC	1.15	161	iPgc	44	15.69	0.7
			iSg	44	33.72	
HVAR	1.69	275	ePn	44	23.80	0.5
			iSn	44	47.30	
SKO	2.26	118	ePn	44	37.00	5.4X
OHR	2.46	141	ePn	44	38.70	4.2X

S.D. = 0.7 on 10 of 12 obs.

? JAN 06, 1991 01h 47m 43.45± 2.42s
3.830 S ± 7.4km 79.723 W ±51.7km
DEPTH = 103.4 ± 34.1 km
4.5mb (1 obs.)
NEAR COAST OF ECUADOR (105)

VC1	3.43	23	P	48	37.00	0.6
GGP	3.80	17	eP	48	42.10	0.5
			S	49	26.80	
YANA	3.87	17	eP	48	42.40	0.1
			iS	49	26.00	
ANGL	4.05	33	eP	48	44.20	-0.6
CAYA	4.26	24	P	48	47.80	0.1
COTA	4.36	19	eP	48	50.20	1.0
PURC	6.97	29	eP	49	24.80	-0.4
SILC	7.30	28	eP	49	30.00	0.4
ANCC	7.83	21	eP	49	33.20	-3.3X
			eS	50	46.50	
HOQC	7.88	23	eP	49	34.90	-2.4
DIAC	7.90	27	eP	49	39.00	1.4
CLMC	8.29	22	eP	49	40.50	-2.3
NNA	8.59	161	iPc	49	46.20	-0.6
	0.5s		95.77nm			5.8mb X
			i	49	52.20	
			eS	51	16.50	
PT10	8.63	162	iPd	49	47.50	0.2
			e(S)	51	18.00	
HOBC	8.89	24	eP	49	52.40	1.5
ZOBO	16.81	138	PKP	51	34.00	-0.6
	1.0s		30.00nm			4.5mb
	Z 24s		0.10um			4.4Msz
			i	52	08.80	
LP8	17.02	139	P	51	36.30	-0.7
			i	52	09.00	
CNCB	17.30	139	P	51	42.00	1.4
			i	52	15.00	
CCH	18.94	136	P	52	00.00	0.5
YKA	71.26	344	eP	59	27.30	34.2X
	0.8s		0.70nm			

S.D. = 1.2 on 18 of 20 obs.

JAN 06, 1991 01h 48m 03.70± 0.60s
44.839 N ± 7.2km 4.876 E ± 6.2km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.8 (LDG). MD 2.8 (STR).

SSB	0.50	332	Pg	48	13.30	-0.6
			Sg	48	20.83	
LBL	1.22	289	Pg	48	26.80	0.4
			Sg	48	43.90	
PLDF	1.44	322	Pg	48	31.00	1.2
			Sg	48	50.50	
LPL	1.48	62	Pg	48	31.20	0.6
			Sg	48	50.60	
LPG	1.48	63	Pg	48	31.20	0.5
			Sg	48	50.00	
RSL	1.50	55	Pn	48	30.05	-0.7
			Sg	48	50.73	
PYM	1.60	305	Pg	48	33.80	1.6
			Sg	48	56.20	
LRG	1.75	142	Pn	48	31.80	-2.4
			Pg	48	35.20	
			Sg	48	56.00	
FRF	1.80	134	Pg	48	36.20	1.1
			Sg	48	57.50	
LMR	1.91	141	Pg	48	37.60	1.0
SMF	1.95	339	Pn	48	37.00	-0.1
			Pg	48	40.80	
			Sg	49	05.80	
SBF	2.08	117	Pg	48	41.10	2.0X
			Sg	49	06.20	
MAF	2.13	311	Pg	48	44.00	4.2X
			Sg	49	12.40	
AVF	2.22	332	Pn	48	40.80	-0.3
			Pg	48	45.60	
			Sg	49	13.60	
BGF	2.23	321	Pn	48	41.20	-0.1
			Pg	48	45.80	
			Sg	49	16.00	
LBF	2.24	344	Pg	48	46.00	4.6X
			Sg	49	14.60	
TCF	2.37	309	Pg	48	48.20	5.0X
			Sg	49	18.60	
SSF	2.42	337	Pg	48	49.20	5.3X
			Sg	49	20.40	
RJF	2.43	282	Pn	48	42.80	-1.2
			Pg	48	50.00	
			Sg	49	21.40	
LOR	2.53	344	Pn	48	44.40	-1.1
			Pg	48	51.00	
			Sg	49	23.80	
LPO	2.63	268	Pg	48	53.50	6.5X
			Sg	49	28.00	
LSF	2.74	302	Pg	48	55.20	6.6X
			Sg	49	30.60	

S.D. = 1.2 on 15 of 22 obs.

• JAN 06, 1991 01h 57m 31.22± 0.63s
12.722 N ±11.6km 47.556 E ± 9.9km
DEPTH = 10.0km (geophysicist)
4.7mb (11 obs.)
EASTERN GULF OF ADEN (415)

ARO	4.76	256	iPd	58	40.50	-4.3X
AAE	9.38	248	eP	59	47.50	-2.3
NAI	17.53	218	eP	01	39.00	1.4
MBH	20.64	327	eP	02	13.00	-0.7
DSI	21.85	331	eP	02	17.00	-8.9X
ADI	23.19	333	eP	02	44.00	4.9X
QUE	24.99	43	eP	02	59.20	2.4X
TAB	25.26	358	eP	03	08.00	8.7X
MAIO	25.82	23	eP	03	06.00	1.5
			e	07	50.00	
GBA	29.10	85	Pd	03	34.50	0.1
	0.4s		1.70nm			4.2mb
BCAO	29.83	257	ePd	03	46.70	5.7X
	0.8s		7.00nm			4.5mb
KRI	34.30	212	iPd	04	14.50	-5.7X
OHR	36.71	325	eP	04	46.00	5.6X
BUL	37.60	210	iPc	04	48.50	0.3
	0.9s		8.40nm			4.5mb
GKN	37.77	61	P	04	48.00	-1.6
	0.9s		20.00nm			4.9mb
DMN	38.06	61	P	04	52.98	0.8
	0.9s		31.00nm			5.1mb

KKN 38.26 61 P 04 52.42 -1.4
0.8s 24.00nm 5.0mb
PKI 38.31 61 P 04 54.76 0.4
0.9s 17.00nm 4.8mb
GUN 38.80 61 P 04 56.88 -1.6
0.9s 28.00nm 5.0mb
SRO 42.65 331 eP 05 33.20 3.7X
SPC 42.78 334 eP 05 31.70 0.9
ZST 43.50 330 e(P) 05 39.20 2.8X
KSP 45.73 333 eP 05 54.50 0.2
e 05 57.20
KHC 45.85 329 eP 06 16.10 20.8X
CLL 47.56 331 eP 06 11.00 2.2
HFS 53.49 340 eP 06 51.50 -2.2
0.6s 0.90nm 3.9mb
NB2 54.99 339 P 07 05.50 0.6
1.0s 6.50nm 4.6mb
WRA 91.30 110 P 10 40.00 1.2
0.9s 2.20nm 4.5mb
S.D. = 1.5 on 17 of 28 obs.

JAN 06, 1991 03h 01m 58.46± 0.96s
0.571 N ± 3.8km 98.549 E ± 3.2km
DEPTH = 57.0 ± 7.8 km
5.8mb (83 obs.) 4.9Msz (15 obs.)
NORTHERN SUMATERA (706)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 19S, 37C
Centroid Location:
Origin Time 03:02: 0.5 0.5
Lat 0.13N 0.04 Lon 98.69E 0.05
Dep 60.2 3.4 Half-duration 1.9
Moment Tensor; Scale 10**17 Nm
Mrr= 1.15 0.07 Mtt=-0.73 0.08
Mff=-0.42 0.13 Mrt= 0.57 0.09
Mrf=-0.41 0.08 Mtf= 0.53 0.08
Principal Axes:
T Val= 1.35 Plg=74 Azm= 35
N -0.03 0 127
P -1.33 16 217
Best Double Couple:Mo=1.3*10**17
NP1:Strike=307 Dip=29 Slip= 91
NP2: 127 61 90

IPM 4.69 32 ePd 03 10.90 2.5
e 04 21.60
KGM 4.98 73 iPc 03 13.80 1.3
i 03 26.80
iS 03 47.30
i 04 48.00
SNG 6.88 17 iPc 03 39.80 0.7
1.4s 2474.42nm 6.7mb
eS 05 32.10
PCT 14.30 11 eP 05 20.00 0.5
0.8s 27.00nm 4.8mb
e 05 25.00
NST 15.09 6 eP 05 32.00 2.3
BDT 16.57 2 eP 05 47.00 -1.6
0.8s 168.70nm 5.2mb
LOE 17.02 10 iPc 05 54.00 -0.2
CHG 18.13 1 iPc 06 06.60 -1.4
0.9s 97.06nm 5.0mb
eS 09 34.00
CHTO 18.13 1 iPc 06 06.60 -1.4
KKM 18.45 72 ePc 06 13.60 1.6
0.9s 413.20nm 5.6mb
TSM 19.84 79 ePd 06 25.80 -1.7
1.0s 766.60nm 6.0mb
QIZ 21.43 30 eP 06 44.00 0.2
0.9s 200.00nm 5.5mb
N 16s 1.60um
E 16s 1.30um
PP 07 10.00
eS 10 37.00
SS 11 13.00
PPR 22.06 65 iPc 06 51.00 0.9
KOD 23.06 295 eP 07 04.00 3.8X
GBA 24.59 303 Pc 07 16.50 1.8
0.8s 116.10nm 5.4mb
KMI 24.74 9 Pc 07 17.50 1.1
0.6s 120.00nm 5.6mb
Z 19s 5.30um 5.1Msz
pP 07 29.00 45kmX
eS 11 36.00
SHL 25.67 346 iP 07 25.00 0.0
iS 11 48.00

HYB 25.83 311 ePc 07 27.00 0.6
1.0s 170.00nm 5.5mb
eS 11 52.00
QCP 26.29 57 eP 07 35.00 4.3X
GZH 26.60 32 Pc 07 33.00 -0.4
Z 15s 3.30um 5.0MszX
N 14s 2.10um
E 15s 1.10um
eS 12 03.50
BAG 26.82 53 eP 07 34.90 -0.8
1.0s 420.00nm 6.0mb
GYA 26.90 16 P 07 35.60 -0.6
1.4s 300.00nm 5.7mb
Z 20s 2.50um 4.8Msz
N 14s 2.60um
E 14s 1.10um
sP 07 49.00
PcP 10 57.40
S 12 10.00
ScP 14 32.00
ScS 18 23.20
MAP 27.08 68 iPc 07 37.50 -0.3
SZP 27.37 51 iPd 07 40.00 -0.4
DAV 27.72 76 eP 07 38.50 -5.2X
CVP 28.52 52 eP 07 50.00 -0.9
PKI 29.66 336 P 08 01.14 -0.3
0.8s 227.00nm 5.9mb
GUN 29.77 337 Pc 08 02.60 0.2
0.6s 397.00nm 6.3mb
LSA 29.81 347 iPc 08 03.00 0.1
Z 18s 1.10um 4.5Msz
pP 08 15.00 46kmX
S 12 57.00
sS 13 21.00
PcS 14 45.00
DMN 29.82 335 P 08 02.54 -0.2
0.9s 376.00nm 6.1mb
KKN 29.91 336 Pc 08 03.30 -0.2
0.8s 441.00nm 6.2mb
MBL 29.99 137 eP 08 02.00 -2.0
POO 30.11 308 iP 08 06.20 1.0
GKN 30.36 335 Pc 08 07.34 0.0
0.9s 778.00nm 6.5mb
CD2 30.58 9 Pc 08 07.40 -1.7
0.8s 100.00nm 5.6mb
Z 20s 7.20um 5.3Msz
S 13 08.00
QZH 31.03 37 P 08 12.80 -0.3
WHN 33.37 25 iPc 08 35.50 2.0
Z 20s 0.80um 4.4Msz
E 13s 1.10um
pP 08 44.00 29kmX
iPcP 11 15.60
eS 13 53.00
NDI 34.60 326 iPc 08 42.50 -1.6
0.6s 60.00nm 5.7mb
eS 14 19.00
XAN 34.68 15 iPc 08 43.60 -1.2
4.0s 700.00nm 5.9mb X
N 16s 2.40um
E 12s 0.80um
PcP 11 18.20
S 14 09.00
LZH 35.68 7 iPc 08 53.30 -0.1
4.0s 750.00nm 6.0mb X
Z 20s 3.40um 5.1Msz
N 15s 1.42um
PP 10 19.00
PcP 11 22.00
eS 14 24.00
ScS 19 06.50
MUN 36.43 154 eP 09 00.60 1.0
NJ2 36.72 30 iPc 09 02.40 0.4
3.0s 600.00nm 6.0mb
Z 18s 1.00um 4.6Msz
N 13s 1.10um
E 14s 0.90um
PcP 11 24.30
eS 14 40.00
KLB 36.81 152 eP 09 03.00 0.2
SSE 37.17 33 Pd 09 06.00 0.2
1.3s 120.00nm 5.7mb
Z 20s 2.80um 5.1Msz
N 16s 2.50um
E 15s 1.60um
pP 09 19.00 48kmX
PcP 11 25.20

S 14 48.00
ePcS 15 12.00
NWAO 37.69 154 eP 09 11.00 0.8
Z 20s 1.10um 4.7Msz
N 20s 0.60um
E 20s 0.40um
COOL 37.94 148 eP 09 12.80 0.5
e 09 23.50
GTA 38.67 2 iPc 09 18.40 -0.1
3.3s 1270.00nm 6.2mb X
Z 25s 1.80um 4.8MszX
N 15s 1.40um
pP 09 29.80 41kmX
sP 09 36.80
PP 10 48.00
PcP 11 30.20
eS 15 11.00
ScP 15 12.00
PcS 15 18.00
eSS 17 52.00
ScS 19 22.00
TIY 39.11 18 Pc 09 23.00 0.9
Z 20s 2.00um 4.9Msz
N 14s 1.60um
S 15 19.00
sS 15 46.00
TIA 39.43 24 Pc 09 24.60 -0.1
1.1s 500.00nm 6.3mb
Z 20s 1.70um 4.9Msz
N 14s 0.80um
E 14s 0.80um
pP 09 39.50 58kmX
eS 15 30.00
BTO 41.18 13 iPc 09 40.00 0.9
4.0s 1100.00nm 6.0mb X
N 16s 2.40um
E 14s 1.00um
pP 09 51.00 39kmX
ePP 11 20.00
eS 15 52.00
HHC 41.80 15 iPc 09 46.00 1.8
0.8s 490.00nm 6.3mb
Z 18s 4.10um 5.3Msz
N 16s 1.70um
sP 10 00.00
S 16 01.00
sS 16 15.00
ASPA 41.94 127 iPc 09 42.80 -2.7
0.9s 56.30nm 5.3mb
Z 23s 1.00um 4.6MszX
iPcP 11 39.50
iPcS 15 29.30
iS 15 52.20
iScS 19 41.60
FORR 42.01 141 iPc 09 46.30 0.4
0.4s 54.00nm 5.7mb
QUE 42.06 317 iPc 09 47.20 0.6
1.0s 80.00nm 5.4mb
BJI 42.44 20 Pc 09 50.50 1.2
0.8s 490.00nm 6.3mb
Z 18s 1.17um 4.8Msz
N 14s 0.85um
eS 16 08.00
KAGJ 43.18 42 eP 09 54.20 -1.3
DL2 43.62 26 iPc 09 59.50 0.6
Z 18s 1.21um 4.8Msz
N 14s 0.90um
E 14s 0.90um
pP 10 13.00 51kmX
KUMJ 43.99 41 eP 10 01.30 -0.8
WMO 44.14 349 iPc 10 04.00 0.8
1.0s 300.00nm 6.0mb
Z 32s 1.10um 4.6MszX
PP 11 42.00
S 16 32.00
sS 16 52.00
ScS 19 56.50
SHNJ 45.20 39 eP 10 11.40 -0.3
QIS 45.32 120 iPc 10 10.00 -2.9X
i 11 52.00
SNY 46.86 26 iPc 10 23.00 -1.7
1.2s 300.00nm 6.1mb
Z 24s 1.80um 4.9MszX
N 16s 1.60um
E 15s 1.50um
pP 10 37.50 55kmX
S 17 08.00

06d 03h

			sS	17	37.00		VAM	76.93	306	iPc	13	47.10	0.3	PTJ	84.43	316	e(P)	14	19.40	-6.9X
TKSJ	47.00	41	P	10	25.70	-0.3	VRI	77.00	317	iPc	13	51.00	4.1X	SGO	84.49	311	P	14	22.40	-4.2X
YONJ	47.37	40	eP	10	26.90	-2.0	CVO	77.36	317	eP	13	52.50	3.5X	KSP	84.66	321	iPc	14	27.70	0.4
WKYJ	48.17	42	P	10	34.70	-0.5	PVL	77.42	314	iPc	13	48.60	-0.6		1.0s	62.00nm				5.6mb
CN2	49.27	26	iPc	10	42.80	-0.6	MLR	77.45	317	iPc	13	53.50	3.9X				i	14	40.10	
	4.0s	600.00nm				6.0mb X	RZN	77.58	313	iPc	13	50.00	-0.5	VBY	84.88	315	iPKPc	14	29.20	0.7
Z	17s	2.70um				5.3MszX	PLD	77.66	313	iP	13	50.00	-0.6				i	14	41.40	
N	15s	0.90um					CMP	78.03	316	ePc	13	53.00	0.4	UPP	84.94	330	iPc	14	28.60	0.2
E	15s	0.90um					PAIG	78.05	311	eP	13	52.14	-0.7	DUI	85.20	312	Pd	14	32.60	2.3
		pP		10	55.00	44kmX	PGB	78.14	313	iP	13	52.80	-0.5	LJU	85.43	316	iPKPc	14	32.00	0.8
MAIO	50.72	319	iPc	10	54.00	-0.7	VLI	78.14	307	eP	13	51.50	-1.9				e	14	44.00	
	0.9s	9.80nm				4.8mb	MMB	78.29	312	iPc	13	53.30	-0.9	CEY	85.48	316	ePKPc	14	31.80	0.3
		e		18	15.00		NEO	78.30	310	eP	13	52.80	-1.5				e	14	44.00	
MTMJ	51.02	41	P	10	55.70	-1.3	SRS	78.31	312	eP	13	53.22	-1.1	MCT	85.62	308	P	14	36.00	3.4X
MAT	51.26	41	iPc	10	56.60	-2.1	SOH	78.44	312	eP	13	54.06	-1.0	SDI	85.68	312	Pc	14	34.40	1.8
	1.4s	125.58nm				5.8mb	TNR	78.63	316	ePc	13	56.00	0.1	PRU	85.70	320	iP	14	33.20	0.7
Z	20s	0.71um				4.7Msz	THE	78.70	311	iP	13	55.29	-1.1				e	14	45.50	
		eS		18	14.00		THZ	78.75	133	P	13	56.20	-0.5				e	17	49.20	
CHJJ	51.50	42	P	10	58.60	-2.0	KNT	78.84	312	eP	13	56.10	-1.1	VOY	85.87	316	ePKP	14	33.70	0.2
MDJ	51.77	28	iPc	11	02.30	-0.2	VTS	78.84	313	iPc	13	57.80	0.5				i	14	46.10	
	0.8s	100.00nm				5.9mb	AGG	78.94	310	eP	13	55.98	-1.8	BSD	85.88	325	iPc	14	36.60	3.4X
Z	28s	0.70um				4.5MszX	LIT	78.98	311	eP	13	56.82	-1.2		0.6s	52.00nm				5.9mb
E	16s	2.40um					ITM	79.00	308	iPc	13	57.00	-1.2	TRI	85.94	316	iPc	14	33.60	-0.1
		eS		18	16.00		VAY	79.11	312	iP	13	57.20	-1.4	AZI	85.98	312	Pc	14	36.30	2.3
YAMJ	53.38	41	P	11	13.40	-1.1		1.2s	90.00nm				5.6mb	AQU	86.02	312	Pc	14	36.90	2.6
CMS	54.94	130	iPc	11	25.00	-1.1				i	14	07.30		RBL	86.12	316	P	14	38.30	3.6X
OFUJ	54.95	41	P	11	24.50	-1.5	GRG	79.18	312	eP	13	57.94	-1.1	ADK	86.31	38	e(P)	14	34.80	-0.6
RMO	55.31	123	iPc	11	28.20	-0.7	EVR	79.33	309	eP	13	58.80	-1.2	ARV	86.41	313	Pc	14	38.90	2.7X
BFD	55.35	138	iPd	11	29.00	0.1	KHZ	79.33	133	P	13	59.30	-0.5	RDP	86.51	312	P	14	36.50	-0.2
		i		12	40.80			0.7s	65.00nm				5.7mb	RMP	86.52	312	Pc	14	38.60	1.9
RYD	55.61	300	eP	11	20.70	-10.5X	KZN	79.56	311	eP	13	59.80	-1.4	MNS	86.56	312	Pc	14	38.50	1.6
KMSA	56.35	294	iPc	11	35.70	-0.8	DEV	79.62	317	ePd	14	05.00	3.8X	ASS	86.60	313	P	14	38.80	1.7
MRRJ	56.47	37	eP	11	35.60	-1.3	FNA	79.92	311	eP	14	01.62	-1.5	BHG	86.66	318	iPc	14	37.30	0.0
MJMA	57.09	301	eP	11	42.00	0.3	BCAO	80.00	274	iPc	14	06.10	2.1		0.8s	82.00nm				6.0mb
TOO	57.56	137	eP	11	45.00	0.2		0.3s	38.00nm				5.8mb	FVI	86.67	316	Pc	14	39.30	2.0
		e		12	36.00					id	14	16.10		WET	86.73	319	iPc	14	38.40	0.8
HOOJ	57.80	38	P	11	45.70	-0.5	VLS	80.18	309	eP	14	03.80	-0.7		0.8s	86.00nm				6.0mb
ASAJ	58.39	36	eP	11	50.80	0.4	CAW	80.23	132	eP	14	03.80	-0.8	CLL	86.76	321	iPc	14	38.30	0.7
BRS	58.99	123	iPd	11	55.10	0.2	OHR	80.40	312	iPc	14	04.20	-1.4		1.2s	50.00nm				5.6mb
KUSJ	59.07	38	eP	11	54.20	-0.9		0.9s	163.00nm				6.0mb				e	14	49.00	
COO	59.35	126	eP	11	57.00	-0.4				i	14	16.60		RSM	86.79	314	Pc	14	41.20	3.3X
TAB	60.69	314	eP	12	06.00	-0.5	BZS	80.46	316	ePc	13	56.00	-9.7X	HFS	86.94	330	eP	14	38.50	0.2
SVO	61.76	101	eP	12	11.00	-3.0X	MNG	80.46	131	P	14	05.00	-0.9		1.0s	169.40nm				6.2mb
NAI	61.77	268	eP	12	11.60	-2.8		0.7s	26.00nm				5.3mb	Z	16s	0.28um				4.8MszX
HNR	61.92	101	eP	12	12.00	-3.0X	IGT	80.55	310	iP	14	05.74	-0.6				LR	51	21.00	
BADA	66.63	301	iPc	12	47.00	1.5	MTW	80.56	132	P	14	06.40	0.0	CRE	87.14	313	Pc	14	41.90	2.1
GAZ	67.10	310	iP	12	48.90	0.6	BLW	80.58	132	P	14	06.70	0.2	SFI	87.22	314	Pc	14	43.30	3.3X
PTZ	68.09	254	iPc	12	53.40	-1.6	KEK	80.98	310	iPc	14	08.20	-0.4	GRB1	87.54	319	iPc	14	42.10	0.6
		i		13	05.40		PGZ	81.06	131	P	14	08.80	-0.2		1.0s	131.00nm				6.1mb
		i		13	54.20			0.7s	102.00nm				5.9mb				e	14	55.10	
KVT	69.18	314	iP	12	50.30	-10.9X	BEO	81.15	315	iP	14	09.50	0.1	MOX	87.61	320	iPc	14	42.50	0.7
CSS	69.52	307	eP	13	02.80	-0.6	PVY	81.20	313	iPc	14	08.76	-1.1		1.4s	62.00nm				5.6mb
DZM	69.80	114	iPc	13	05.80	0.4	KAF	81.25	333	iP	14	09.90	0.4	FIR	87.65	314	eP	14	41.50	-0.5
KRI	70.04	252	iPd	13	04.60	-2.4		0.6s	147.40nm				6.1mb	FUR	87.75	318	eP	14	42.70	0.2
		ipP		13	16.70	41kmX	IVA	81.29	313	iPc	14	09.95	-0.3	SQTA	87.77	317	iPc	14	42.60	-0.2
MZZ	70.18	258	iPd	13	09.00	1.0	NUR	81.61	331	iP	14	11.60	0.2		0.6s	26.80nm				5.6mb
		i		13	19.70			0.8s	136.40nm				6.0mb				i	14	45.50	
		i		15	09.50		ULC	81.66	312	iPc	14	11.40	-0.7				i	14	55.00	
PPCY	70.29	307	eP	13	07.50	-0.6	TTG	81.71	313	iPc	14	11.95	-0.3				i	15	03.90	
KAS	70.90	314	iPc	13	11.70	-0.1	PLE	81.72	314	iPc	14	12.76	0.2	OGA	87.89	317	iPc	14	43.70	0.2
BBTK	71.21	312	iPc	13	13.00	-0.8	SPC	81.93	320	iPc	14	13.40	-0.2		0.8s	42.00nm				5.7mb
LSZ	71.23	254	iPd	13	15.00	0.7	NKY	81.94	313	iPc	14	13.50	-0.2	MME	88.06	314	Pc	14	47.20	2.8X
		i		13	27.30		PSZ	81.97	318	iP	14	14.00	0.3	BDI	88.13	314	Pc	14	45.90	1.4
		i		14	23.60		BDV	82.01	312	iPc	14	14.18	0.3	PII	88.18	314	P	14	45.40	0.8
BUL	71.40	249	eP	13	18.10	2.8X	HBZ	82.23	128	P	14	13.80	-1.3	NB2	88.21	331	P	14	43.50	-1.0
ELL	72.64	308	iP	13	21.50	-0.8		0.7s	44.00nm				5.6mb		1.0s	69.80nm				5.8mb
KSL	72.76	308	eP	13	21.00	-1.8	KRA	82.25	320	iPc	14	14.90	-0.1	SAL	88.21	315	Pc	14	47.90	3.2X
ALT	73.00	311	iP	13	23.60	-0.8		0.9s	70.00nm				5.7mb	OSS	88.49	316	ePc	14	47.20	0.9
GPA	73.15	312	iP	13	24.00	-1.1				e	14	27.40		MDI	88.78	316	P	14	49.40	2.0
KHL	73.28	310	iP	13	24.40	-1.6	HCY	82.27	313	iPc	14	14.78	-0.5	VDL	88.95	316	ePc	14	48.90	0.3
KMZ	73.34	256	eP	13	28.00	1.3	BRY	82.28	313	iPc	14	15.10	-0.4	BOB	88.96	315	P	14	51.20	2.7X
		i		13	38.60		LCI	82.46	310	P	14	18.00	1.8	SAX	89.04	317	ePc	14	50.00	0.9
HRT	73.75	312	iP	13	27.40	-1.2	BUD	82.50	318	e(P)	14	16.00	-0.3	MUD	89.18	326	iPc	14	50.30	1.2
YLV	73.91	312	iP	13	28.20	-1.3	SOD	82.58	338	iP	14	16.90	0.5		1.0s	26.00nm				5.5mb
DST	74.25	311	eP	13	30.00	-1.5	SRO	83.01	318	iPc	14	19.60	0.6	LLS	89.28	317	ePc	14	50.40	0.3
ISK	74.25	313	iP	13	30.40	-1.0	BRT	83.08	311	P	14	21.80	2.3	PGF	89.28	312	eP	14	49.70	-0.4
BNT	74.94	312	eP	13	34.40	-1.0	KEV	83.14	341	iP	14	19.30	0.1		0.9s	39.30nm				5.7mb
EDC	74.98	312	eP	13	34.00	-1.7		0.8s	41.10nm				5.5mb	VAI	89.44	316	P	14	52.00	1.5
IZM	75.04	310	iP	13	35.90	-0.2	ORI	83.58	310	Pc	14	25.30	3.2X	PCP	89.61	314	P	14	51.76	0.3
SMG	75.23	309	eP	13	36.90	-0.2	TDS	83.63	310	Pc	14	25.80	3.5X	SLE	89.62	318	ePc	14	51.80	0.4
PSN	75.49	315	iPc	13	38.20	-0.3	HVAR	83.84	313	iPc	14	22.50	-0.8	TNS	89.63	320	ePKPc	14	52.60	1.1
NPS	75.77	306	iPd	13	40.00	-0.3	ZST	83.87	318	iP	14	23.40	0.1	ZLA	89.69	317	eP+	14	52.40	0.6
CFR	75.86	317	eP	13	39.00	-1.5				i	14	36.30		CKI	89.80	314	P	14	54.10	1.8
JMB	76.37	314	iPc	13	43.30	-0.2				e	20	03.20		FIN	89.85	314	P	14	52.89	0.3
ALN	76.45	312	eP	13	43.26	-0.7				e	21	56.00		FEL	89.94	318	eP	14	52.91	-0.1
IAS	76.74	319	eP	13	43.00	-2.4	MSI	84.13	308	Pc	14	28.50	3.6X	ORX	89.99	315	P	14	52.17	-1.2
RDO	76.87	312	iPd	13	45.50	-0.8	ZAG	84.40	316	iPc	14	26.70	0.7	ORO	89.99	315	Pc	14	54.50	1.2

MMK	90.00	316	ePc	14	54.40	0.9	GMW	120.09	31	PKP	20	45.30	0.7				eS	40	34.50		
IMI	90.08	314	P	14	54.12	0.4	EDM	120.17	22	ePKPc	20	44.00	-0.6	THE	0.55	129	eP	40	29.86	-0.5	
ROB	90.09	314	P	14	53.71	0.0	PNT	120.46	28	ePKPc	20	45.00	-0.2				eS	40	38.46		
DIX	90.38	316	ePc	14	56.50	1.2		0.9s		35.00nm				SOH	0.74	102	eP	40	33.94	0.2	
SBF	90.41	314	eP	14	55.00	-0.2	BMW	120.54	32	PKP	20	45.50	0.0				eS	40	45.34		
	0.8s		94.05nm			6.2mb	RMW	120.65	31	PKP	20	45.60	-0.1	FNA	0.80	256	eP	40	34.70	0.0	
ENR	90.42	314	P	14	54.74	-0.5	LON	121.12	31	PKP	20	46.60	0.0				eS	40	44.10		
CDF	90.42	318	eP	14	54.90	-0.3	SHW	121.25	32	PKP	20	47.70	0.7		S.D. = 0.5		on	6 of	6 obs.		
	0.8s		30.90nm			5.7mb	DPW	122.15	28	PKP	20	48.60	0.1								
STV	90.49	314	P	14	54.63	-1.0	FFC	122.36	14	iPKPc	20	48.00	-0.6								
RSP	90.51	315	P	14	54.43	-1.3		0.9s		28.00nm											
LSD	90.58	315	P	14	56.68	0.5	NEW	122.38	27	PKP	20	49.30	0.4								
PZZ	90.64	314	P	14	54.74	-1.6	SES	123.29	22	ePKPc	20	50.00	-0.6								
EMS	90.72	316	ePc	14	57.60	0.8				pP	21	02.00									
BSF	90.76	318	eP	14	56.20	-0.6	SCH	123.49	350	ePKP	20	51.00	0.2								
	0.8s		20.15nm			5.5mb	FHC	123.57	38	ePKP	20	52.20	0.7								
RRL	90.85	315	P	14	57.20	-0.3	LBFM	124.51	36	PKP	20	53.70	0.2								
LPG	90.86	315	eP	14	57.50	-0.1	WDC	124.58	37	ePKPc	20	53.10	-0.3								
	0.7s		60.30nm			6.1mb	MIN	125.29	37	ePKP	20	54.30	-0.7								
LPL	90.87	315	eP	14	57.60	0.1	LRM	126.32	27	ePKP	20	56.50	-0.5	PLE	0.21	76	iPgd	51	12.71	0.9	
BNI	90.93	315	P	14	59.90	2.2	BRK	126.36	40	ePKP	20	57.70	0.8				iSg	51	17.34		
RSL	90.94	316	P	14	58.18	0.4	BKS	126.38	40	ePKP	20	57.80	0.8	NKY	0.48	191	iPgd	51	14.89	-2.2	
FRF	90.99	313	eP	14	58.00	0.2		0.8s		38.00nm							iSg	51	21.97		
	0.9s		72.05nm			6.1mb	MHC	127.07	40	ePKPd	20	59.50	1.0	BRY	0.57	228	iPgd	51	15.79	-3.2X	
HAU	91.06	318	eP	14	57.90	-0.2	ARN	127.14	40	PKP	20	59.50	1.0				iSg	51	23.42		
	0.8s		96.70nm			6.3mb	CMB	127.46	39	ePKP	20	59.10	0.0	IVA	0.70	125	iPgc	51	20.97	-0.6	
LMR	91.10	313	eP	14	58.40	0.1	PRS	127.84	41	ePKP	21	01.00	1.2				iSg	51	31.92		
	1.0s		44.00nm			5.8mb	LLA	127.95	40	ePKP	21	01.30	1.2	TTG	0.86	173	iPgc	51	22.46	-2.1	
LRG	91.20	313	eP	14	59.20	0.4	PRI	128.41	41	ePKPd	21	02.50	1.4				iSg	51	34.45		
	0.9s		72.05nm			6.1mb	FRI	128.52	39	ePKP	21	01.60	0.5	PVY	0.93	137	iPgc	51	24.52	-1.3	
CDR	91.63	314	e(P)c	15	01.60	0.9	PHAM	128.77	41	PKP	21	03.40	1.8				iSg	51	38.37		
			i	15	13.90		BONR	128.79	37	PKP	21	02.90	0.9	HCY	0.95	209	iPgd	51	22.69	-3.4X	
SSB	92.43	315	P	15	05.03	0.6	BCH	129.36	41	PKP	21	04.20	1.3				iSg	51	36.79		
LBF	92.71	317	eP	15	05.50	-0.2	TNP	129.36	37	PKP	21	03.40	0.5	BDV	1.02	192	iPgc	51	24.49	-2.8	
LOR	92.78	317	eP	15	05.80	-0.2	BW06	130.00	27	PKP	21	03.70	-0.3				iSg	51	39.47		
	0.7s		43.05nm			6.0mb	ISA	130.12	40	ePKP	21	05.00	0.7	ULC	1.32	176	iPgd	51	30.71	-1.7	
SMF	92.83	317	eP	15	06.00	-0.2	ABL	130.13	41	PKP	21	05.20	0.7				iSg	51	50.37		
SSF	93.03	317	eP	15	07.10	0.0	DUG	130.37	32	PKP	21	05.50	0.8	BEO	1.82	32	ePn	51	43.20	3.5X	
	1.3s		63.20nm			5.9mb	DAU	131.01	30	PKP	21	06.70	0.6				iSg	52	10.20		
AVF	93.15	317	eP	15	07.60	-0.1	SBB	131.14	40	ePKP	21	06.00	-0.2	HVAR	1.96	268	iPnd	51	40.70	-1.0	
	1.0s		55.00nm			5.9mb	PAS	131.24	41	ePKP	21	08.00	1.7				iSg	52	08.40		
BGF	93.52	317	eP	15	09.50	0.1	MWC	131.27	41	ePKP	21	08.00	1.3	SKO	2.15	127	iPnc	51	44.90	0.3	
	1.1s		79.35nm			6.1mb	CBM	131.27	348	PKP	21	06.50	0.5				iPb	51	48.00		
MAF	93.74	316	eP	15	10.60	0.2	GSC	131.41	39	ePKP	21	08.00	1.2				iPg	51	50.80		
	0.9s		18.00nm			5.5mb	PEC	132.06	41	PKP	21	08.60	0.6				i	51	54.00		
TCF	93.98	316	eP	15	11.60	0.0	PLM	132.59	41	ePKP	21	10.00	0.8				iSn	52	14.90		
BRW	94.16	18	eP	15	12.90	1.1	BAR	133.13	42	ePKP	21	12.00	2.0				iSb	52	21.20		
CAF	94.20	315	eP	15	12.90	0.3	GAC	133.62	354	ePKP	21	10.50	0.1				iSg	52	23.50		
	1.2s		23.80nm			5.5mb	GLA	134.10	40	ePKP	21	13.00	1.1				Lg	52	31.50		
RJF	94.55	315	eP	15	14.60	0.4	BNH	134.13	350	PKP	21	11.80	0.3				LR	52	34.00		
LPO	94.85	315	eP	15	15.90	0.4	GOL	134.34	26	PKP	21	12.10	-0.3	OHR	2.50	150	iPn	51	51.90	2.3	
	1.0s		24.00nm			5.6mb	GLD	134.36	26	PKP	21	12.70	0.3				iSg	52	27.00		
LFF	95.14	315	eP	15	17.30	0.5	HBVT	134.64	352	PKP	21	12.70	0.2				LR	52	35.40		
	1.2s		59.50nm			5.9mb	BMA	137.60	236	e(PKP)	21	19.00	0.2	BAI	2.73	219	P	51	51.00	-1.9	
LDF	95.32	319	eP	15	17.30	-0.3	ANMO	137.63	31	PKP	21	18.70	0.0	BRT	2.79	211	P	51	54.00	0.2	
	0.9s		14.75nm			5.4mb	ALQ	137.63	31	ePKP	21	18.70	-0.1	TIM	2.88	31	eP	52	06.00	11.1X	
DAG	95.51	348	iPd	15	17.00	-1.0	PNJ	138.19	352	ePKP	21	19.30	0.0	BZS	2.94	37	ePc	52	30.00	34.2X	
	0.5s		16.20nm			5.8mb	VAO	139.76	234	ePKP	21	23.60	0.8	FNA	3.01	145	eP	51	58.24	1.4	
FLN	95.53	319	eP	15	18.20	-0.4	UYO	143.35	18	iPKPd	21	24.60	-4.1X				eS	52	37.88		
	0.9s		22.95nm			5.7mb	PPD	143.71	232	ePKP	21	28.00	-1.6	LCI	3.07	197	P	51	57.60	0.0	
MFF	95.57	317	eP	15	18.60	-0.2				e	21	32.50		VTS	3.08	102	iP	51	58.00	0.1	
	0.8s		18.80nm			5.6mb				e	21	42.60		VAY	3.22	126	iPn	51	59.50	-0.3	
GRR	95.83	319	eP	15	19.90	-0.1				e	22	01.80					i	52	04.00		
	1.1s		29.30nm			5.7mb	BAO	143.75	244	ePKPd	21	28.70	-1.3				i	52	07.40		
LPF	96.00	318	eP	15	20.60	-0.1	ITB7	144.08	225	e(PKP)	21	28.00	-2.2	GRG	3.37	132	iP	52	02.13	0.2	
	1.3s		72.20nm			6.0mb	ITB	144.31	225	e(PKP)	21	29.30	-1.3				iS	52	42.24		
EKA	96.19	326	P	15	23.00	1.6	ITB1	144.53	226	e(PKP)	21	30.00	-0.9	ZAG	3.38	320	ePn	52	01.80	-0.3	
	2.7s		711.70nm			6.7mb	PEL	146.05	196	iPKP	21	35.00	1.6				iSn	52	41.70		
TTA	96.49	26	eP	15	23.50	0.7	SIV	154.72	232	PKP	21	47.50	0.8				iSg	52	56.70		
IMA	96.63	23	iPc	15	24.00	0.6	CNCB	159.11	219	PKP	21	54.70	1.9	PTJ	3.46	320	iPn	52	02.10	-1.1	
	0.8s		32.50nm			5.9mb	LPB	159.39	219	PKP	21	53.00	0.0				eSg	52	59.20		
SVW	97.11	28	eP	15	26.50	0.9		Z 20s		10.64um			6.7MszX	KNT	3.52	126	eP	52	04.08	0.1	
FBA	99.33	23	P	15	35.70	0.2				LR	17	26.00		VBY	3.55	310	ePnc	52	04.00	-0.4	
	1.0s		8.00nm			5.2mb	ZOBO	159.60	219	PKP	21	54.20	0.8				iSg	53	03.50		
PWA	99.60	27	eP	15	36.30	-0.4				SkS	30	21.00		KZN	3.57	145	ePn	52	07.00	2.2	
PMR	99.96	27	P	15	38.40	0.0				LR	17	16.00		KEK	3.60	172	ePn	52	04.20	-1.0	
	1.0s		10.00nm			5.3mb		S.D. = 1.0		on 345 of 375 obs.				DEV	3.75	45	ePc	52	21.00	13.7X	
MBC	100.32	9	ePdiff	15	39.50	-0.2								ORI	3.79	213	P	52	09.30	1.4	
	1.0s		6.00nm			5.1mb		JAN 06, 1991 03h 40m 19.12± 0.76s						MMB	3.81	115	ePg	52	08.80	0.6	
TOA	101.08	26	ePdiff	15	44.30	0.9		40.980 N ± 6.6km 22.396 E ± 6.3km						DUI	3.81	246	P	52	09.40	1.1	
INK	102.67	17	ePdiff	15	49.50	-0.7		DEPTH = 10.0km (geophysicist)						IGT	3.85	166	iP	52	08.52	-0.3	
YKA	112.33	16	ePdiff	16	32.90	-0.4		GREECE					(364)				eS	52	54.60		
	0.8s		1.10nm											THE	3.90	131	eP	52	11.32	1.9	
YKA	112.33	16	ePKP	20	25.80	-3.4X	GRG	0.02	169	iP	40	21.42	0.3	SGO	3.94	228	P	52	09.80	-0.1	
	0.8s		2.20nm							eS	40	22.94		SRS	3.96	122	eP	52	10.25	-0.1	
FRB	115.13	354	ePKP	20	33.00	-1.5	VAY	0.37	21	ePg	40	26.30	-0.3	RIY	3.97	303	ePn	52	10.80	0.3	
MCW	119.33	30	PKP	20	41.30	-1.8	KNT	0.42	64	eP	40	28.10	0.4				iSg	53	21.10		

06d 03h

SOH	4.00	127	eP	52 10.68	-0.2
LIT	4.06	140	eP	52 12.72	1.1
CEY	4.16	308	ePn	52 13.00	-0.1
			e	52 21.90	
			eSg	53 29.00	
TDS	4.18	211	P	52 13.50	0.1
SDI	4.23	250	P	52 14.80	0.7
LJU	4.28	312	ePn	52 14.20	-0.7
			e	52 26.00	
			eSg	53 35.00	
AQU	4.31	260	P	52 16.20	0.9
PLG	4.35	130	ePn	52 18.50	2.7X
TNR	4.38	56	ePc	52 30.00	13.7X
AZI	4.39	255	P	52 17.90	1.6
RZN	4.43	109	eP	52 18.00	0.8
ARV	4.51	275	P	52 19.00	0.9
TRI	4.54	304	e(Pn)	52 18.50	0.1
			i	52 30.60	
			i	53 23.90	
			i(Sg)	53 39.10	
SRO	4.57	353	eP	52 17.70	-1.1
			i	52 27.20	
			i	52 48.40	
			e	53 06.40	
VOY	4.63	308	iPn	52 19.80	-0.1
			eSn	53 18.50	
PSZ	4.67	6	iP	52 19.00	-1.4
CMP	4.69	63	ePc	52 25.00	4.3X
ASS	4.73	270	Pd	52 22.30	1.0
PAIG	4.79	133	eP	52 21.45	-0.6
EVR	4.81	154	ePn	52 23.00	0.5
MNS	4.82	261	P	52 23.20	0.6
RSM	4.89	280	P	52 24.80	1.4
AGG	4.90	149	eP	52 23.40	-0.2
RMP	4.96	255	P	52 24.90	0.4
NEO	5.03	141	ePn	52 28.00	2.5
ZST	5.11	345	eP	52 27.10	0.5
			e	52 38.50	
VLS	5.22	167	ePn	52 26.00	-2.2
RDO	5.22	112	ePn	52 45.80	17.6X
CRE	5.23	276	P	52 30.00	1.6
SFI	5.32	279	P	52 30.40	0.9
KBA	5.57	315	iPnc	52 31.20	-2.1
			iSn	53 34.70	
FVI	5.59	309	P	52 34.10	0.8
CVO	5.64	61	eP	53 01.00	26.8X
ALN	5.68	112	eP	52 33.92	-0.7
FIR	5.74	278	e(P)	52 35.00	-0.5
SPC	5.96	7	eP	52 37.90	-0.8
VRI	6.02	62	eP	52 56.50	17.1X
MME	6.17	281	P	52 42.60	0.8
BDI	6.23	280	P	52 42.30	-0.2
BHG	6.24	318	iPc	52 44.30	1.8
PII	6.27	277	P	52 42.80	-0.1
ITM	6.46	160	ePn	52 44.00	-1.7
SAL	6.58	294	P	52 48.00	0.7
WATA	6.69	310	iPnc	52 49.00	0.0
			i	53 01.20	
OGA	6.76	305	eP	52 50.40	0.3
CFR	6.76	71	eP	53 22.00	32.1X
KRA	6.80	4	eP	52 56.90	6.5X
SOTA	6.83	308	iPnc	52 50.80	-0.2
			i	52 55.10	
			iSn	54 11.90	
			i	54 35.10	
KHC	7.00	329	P	52 52.20	-1.0
			e	53 10.60	
BOB	7.13	285	P	52 56.00	0.9
MDI	7.17	294	P	52 55.30	-0.3
VLI	7.18	155	ePn	52 52.20	-3.5X
PRU	7.41	336	eP	53 04.50	5.6X
			e	53 24.50	
			e	53 57.50	
KSP	7.81	347	eP	53 12.80	8.3X
			e	54 45.50	
VAI	7.83	293	P	53 04.60	-0.2
CKI	7.92	282	P	53 06.10	0.0
GRB1	8.00	322	ePn	53 05.00	-2.2
			e	53 13.50	
			e	53 20.50	
ORO	8.31	290	P	53 11.00	-0.7
MOX	8.97	328	eP	53 36.00	15.3X
BNI	9.12	285	P	53 22.00	-0.9
BCAO	38.69	181	ePd	58 36.00	1.9
	0.6s		4.00nm		4.3mb
	S.D. = 1.2		on 80 of 98 obs.		

? JAN 06, 1991 04h 03m 28.43± 1.95s
43.253 N ±14.8km 18.978 E ±12.5km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.4 (TTG).

PLE	0.31	76	iPgd	03 35.00	0.0
			iSg	03 40.00	
NKY	0.44	178	ePg	03 37.50	0.1
			eSg	03 44.40	
BRY	0.47	222	iPgd	03 38.10	0.0
			iSg	03 46.50	
TTG	0.85	166	ePg	03 44.70	-0.1
			eSg	03 56.80	
	S.D. = 0.1		on 4 of 4 obs.		

JAN 06, 1991 04h 36m 31.94± 0.52s
39.372 N ± 5.1km 15.338 E ± 6.6km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

TDS	0.82	69	Pc	36 48.10	0.2
ORI	1.10	51	P	36 53.50	0.9
MSI	1.18	172	P	36 52.90	-1.0
SGO	1.18	359	P	36 53.80	-0.2
MNO	1.52	199	P	36 59.60	0.2
GIB	1.72	217	P	37 02.00	-0.2
BRT	2.08	43	P	37 06.00	-1.2
BAI	2.10	33	P	37 06.00	-1.6
MCT	2.19	218	P	37 10.00	0.9
LCI	2.23	64	P	37 11.20	1.7
DUI	2.38	344	P	37 12.00	0.3
SDI	2.60	334	P	37 15.00	0.2
OHR	4.53	66	e(Pn)	37 42.00	-0.1
	S.D. = 1.0		on 13 of 13 obs.		

? JAN 06, 1991 05h 50m 15.08± 3.84s
3.855 N ±15.0km 77.067 W ±32.4km
DEPTH = 33.0km (normal)
NEAR WEST COAST OF COLOMBIA (102)
MD 2.8 (UVC).

ANCC	0.39	149	iPc	50 23.87	-0.3
			eS	50 30.60	
CLMC	0.50	87	iPd	50 25.87	0.0
			eS	50 34.10	
HOQC	0.58	132	iPd	50 26.76	-0.3
			eS	50 35.70	
BUGC	0.81	87	ePc	50 30.37	0.2
			eS	50 42.00	
SALC	0.95	157	eP	50 32.56	0.3
			eS	50 46.00	
DIAC	1.03	123	ePc	50 33.66	0.2
			eS	50 47.70	
HOBC	1.05	62	iPc	50 33.59	-0.1
			eS	50 47.60	
	S.D. = 0.3		on 7 of 7 obs.		

JAN 06, 1991 06h 03m 06.10± 1.48s
15.792 N ± 6.7km 60.543 W ±14.6km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)
ML 3.3 (FDF).

DEG	0.72	316	ePc	03 19.45	-0.4
			S	03 29.40	
SFG	0.78	306	eP	03 20.55	0.0
			S	03 30.70	
BBL	0.94	254	ePd	03 22.22	-0.8
			S	03 34.00	
MDN	0.95	240	eP	03 22.65	-0.5
			eS	03 35.40	
DPMT	0.97	237	eP	03 23.34	0.0
			eS	03 36.92	
DSVT	0.97	235	eP	03 24.90	1.5
			eS	03 37.14	
DOG	1.06	283	eP	03 24.96	0.2
			S	03 38.20	
CRM	1.09	199	iPd	03 24.14	-1.0
			S	03 37.30	
SEG	1.11	303	ePc	03 25.69	0.4
PAG	1.12	282	eP	03 25.68	0.1
			S	03 39.80	
FDF	1.20	209	iPd	03 26.16	-0.6
			S	03 41.10	
MVM	1.28	196	iPc	03 27.12	-0.6
			S	03 42.90	

BIM	1.37	202	iPc	03 28.68	-0.4
			S	03 45.20	
SLB	2.01	194	eP	03 38.54	0.1
			eS	04 02.15	
SVV	2.54	195	eP	03 47.17	1.2
SVB	2.60	195	eP	03 47.56	0.8
	S.D. = 0.7		on 16 of 16 obs.		

% JAN 06, 1991 06h 29m 18.86± 0.67s
61.301 N ± 6.4km 7.840 E ± 6.4km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 2.6 (BER).

HYA	0.81	261	eP	29 34.08	-0.5
MOL	1.28	354	eP	29 42.91	0.3
			eS	29 59.84	
SUE	1.51	262	eP	29 45.69	-0.2
			eSg	30 05.37	
ODD1	1.52	204	iPd	29 46.37	0.3
			eSg	30 05.55	
ASK	1.53	239	eP	29 46.04	-0.2
			eSg	30 07.90	
BER	1.53	234	eP	29 46.80	0.5
			eSg	30 06.04	
NRA0	1.89	106	Pn	29 51.10	-0.3
			Sg	30 17.40	
BLS2	2.06	193	eP	29 54.21	0.1
			eSg	30 20.26	
	S.D. = 0.4		on 8 of 8 obs.		

* JAN 06, 1991 06h 59m 24.73± 1.24s
15.187 S ±13.0km 166.355 E ±15.4km
DEPTH = 69.0 ± 10.5 km
4.2mb (2 obs.)
VANUATU ISLANDS (186)

BKM	3.06	144	iP	00 12.00	0.2
			iS	00 52.50	
DZM	6.85	179	iPc	01 05.00	0.2
			iS	02 26.20	
HNR	8.48	312	eP	01 27.00	-0.3
			eS	03 03.00	
SVO	8.77	312	eP	01 31.00	-0.2
			eS	03 10.00	
ASPA	31.69	249	eP	05 42.60	-1.5
	1.0s		4.30nm		4.2mb
	Z 18s		0.30um		4.0Msz
			eS	11 37.20	
GUN	88.84	299	PKP	12 15.00	1.7
PKI	89.14	299	PKP	12 15.80	1.1
KKN	89.31	299	P	12 15.80	0.4
DMN	89.41	299	PKP	12 17.00	1.1
GKN	89.92	299	PKP	12 18.60	0.5
YKA	98.36	27	eP	12 51.80	-3.9X
	0.8s		0.60nm		4.2mb
LBF	145.06	339	ePKP	18 54.50	-1.4
SSF	145.16	339	ePKP	18 54.90	-1.1
	1.4s		52.30nm		
LPL	145.23	335	ePKP	18 55.80	-0.7
	0.8s		5.35nm		
LPG	145.24	335	ePKP	18 55.80	-0.8
	1.2s		23.80nm		
GRR	145.25	345	ePKP	18 54.40	-1.7
SMF	145.40	339	ePKP	18 55.40	-1.0
	1.0s		14.00nm		
AVF	145.45	339	ePKP	18 55.60	-0.8
	1.1s		24.40nm		
LPF	145.63	345	ePKP	18 55.70	-1.0
	0.8s		13.45nm		
BGF	145.82	340	ePKP	18 56.80	-0.3
	1.0s		23.00nm		
MAF	146.21	340	ePKP	18 57.60	-0.2
	1.2s		14.90nm		
TCF	146.27	340	ePKP	18 58.20	0.3
LSF	146.52	341	ePKP	18 58.60	0.3
MFF	146.71	343	ePKP	18 59.20	0.7
	1.0s		28.00nm		
FRF	146.84	333	ePKP	18 59.90	1.1
	1.0s		24.00nm		
LRG	147.05	333	ePKP	19 00.70	1.6
	1.0s		24.00nm		
LMR	147.08	332	ePKP	19 00.90	1.7
	1.0s		12.00nm		
LFF	147.94	341	ePKP	19 03.20	2.6X
LPO	148.02	340	ePKP	19 03.40	2.7X
	S.D. = 1.1		on 26 of 29 obs.		

& JAN 06, 1991 07h 18m 55.75s
63.147 N 150.807 W
DEPTH = 126.2km
3.2mb (1 obs.)
CENTRAL ALASKA (1)
<AEIC>.

HUR	0.56	107	eP	19	14.58	-0.4
			iS	19	29.21	
CUT	0.79	161	iP	19	16.54	-0.1
			eS	19	32.86	
RND	0.92	73	iP	19	17.37	-0.6
			eS	19	34.35	
MCK	1.03	54	eP	19	18.53	-0.4
			eS	19	35.33	
BWN	1.19	30	eP	19	20.32	-0.2
			eS	19	38.31	
SKT	1.22	196	iP	19	20.36	-0.5
			eS	19	39.94	
PWA	1.56	164	iPc	19	24.30	-0.3
NEA	1.63	27	eP	19	24.07	-1.4
			eS	19	45.70	
GHO	1.63	147	iP	19	24.89	-0.7
			eS	19	48.49	
SUA	1.69	179	eP	19	25.69	-0.6
PLRM	1.75	153	iP	19	25.68	-1.1
			eS	19	49.85	
PMR	1.75	153	iPc	19	25.80	-1.0
NCG	1.86	200	eP	19	27.59	-0.8
CGLM	1.93	197	eP	19	28.35	-0.8
PMS	2.00	162	iPc	19	29.00	-1.0
CCB	2.01	40	iP	19	28.82	-1.2
BGL	2.03	202	eP	19	30.11	-0.3
SPU	2.06	197	eP	19	29.90	-0.8
			eS	19	57.51	
KNK	2.06	147	iP	19	29.54	-1.2
			eS	19	56.42	
CKL	2.09	201	eP	19	30.52	-0.6
HDA	2.13	52	eP	19	30.17	-1.4
MDM	2.14	31	eP	19	30.48	-1.3
			eS	19	57.50	
FBA	2.20	36	iPc	19	31.50	-1.0
DDM	2.31	72	eP	19	33.24	-0.7
TTA	2.38	267	iPd	19	34.00	-0.9
TOA	2.38	114	iPc	19	34.10	-0.8
NKA	2.42	185	eP	19	36.60	1.3
PAX	2.44	92	eP	19	34.53	-1.1
			eS	20	04.29	
SDG	2.49	102	eP	19	34.87	-1.4
SLKM	2.66	174	iP	19	37.45	-1.0
RDT	2.69	197	eP	19	37.82	-1.1
TZL	2.72	112	eP	19	38.40	-0.8
NCT	2.78	202	eP	19	39.77	-0.3
RDN	2.80	200	iP	19	39.46	-0.9
REF	2.81	199	eP	19	39.86	-0.8
KLU	2.82	124	eP	19	38.42	-2.2
RS2	2.85	200	eP	19	40.27	-0.8
RSO	2.85	200	eP	19	40.34	-0.7
GLI	2.87	141	eP	19	39.17	-2.0
VZW	2.90	134	eP	19	39.26	-2.3
VLZ	2.92	132	eP	19	39.22	-2.5
SVW	3.05	230	eP	19	42.50	-1.1
SEW	3.12	167	eP	19	42.96	-1.5
NNL	3.12	185	eP	19	44.72	0.2
KNIM	3.17	151	eP	19	42.52	-2.5
IMA	3.18	338	eP	19	44.10	-1.3
BRLK	3.40	181	eP	19	47.03	-1.1
LTI	3.42	154	iP	19	46.22	-2.2
HIN	3.44	142	eP	19	46.56	-2.1
MTU	3.51	153	eP	19	47.66	-2.0
HOM	3.52	187	eP	19	49.38	-0.4
CVA	3.54	135	eP	19	48.26	-1.8
CNPM	3.64	183	iP	19	50.26	-1.2
GLB	3.69	115	iP	19	50.27	-1.8
PDB	3.74	207	eP	19	51.96	-0.8
SGAM	3.75	132	eP	19	50.53	-2.4
AUE	4.00	199	eP	19	56.22	0.0
AUP	4.00	200	eP	19	56.85	0.5
AUH	4.00	200	eP	19	58.93	2.6
RAGM	4.02	131	eP	19	54.41	-2.1
HMT	4.20	129	eP	19	56.61	-2.3
KAIM	4.45	134	eP	19	59.60	-2.7
TGL	4.47	119	eP	20	00.05	-2.6
BALM	4.51	114	eP	20	00.79	-2.4
SYI	4.62	190	eP	20	03.25	-1.3
WAX	4.64	122	eP	20	02.53	-2.5
CTGM	4.96	112	eP	20	07.84	-1.6
WRG	5.22	123	eP	20	11.15	-1.6
KDC	5.48	189	eP	20	13.50	-2.7
SIT	9.83	121	e(P)	21	13.10	-1.9
YKA	16.42	76	eP	22	39.00	-0.6
	0.3s		0.40nm			3.2mb
	71 obs. ossociated					

JAN 06, 1991 07h 37m 18.39± 0.60s
41.122 N ± 5.6km 22.383 E ± 4.4km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.0 (SKO).

GRG	0.17	175	iP	37	21.85	-0.4
			eS	37	23.34	
VAY	0.24	35	iPg	37	23.50	-0.1
			iSg	37	27.30	
KNT	0.39	84	eP	37	26.54	0.1
			eS	37	32.18	
THE	0.66	138	eP	37	30.66	-0.8
			eS	37	39.06	
SOH	0.79	112	eP	37	33.46	-0.4
			eS	37	45.70	
FNA	0.83	246	iP	37	34.09	-0.5
			eS	37	45.30	
SRS	0.91	90	iP	37	35.90	0.0
			eS	37	48.58	
LIT	1.02	175	eP	37	38.34	0.6
OHR	1.20	270	ePg	37	41.00	0.3
			eSg	37	57.50	
PAIG	1.55	140	iP	37	47.14	1.1
			eS	38	07.46	
S.D. = 0.6			on 10 of 10 obs.			

? JAN 06, 1991 08h 19m 35.34± 1.72s
43.221 N ±13.6km 18.998 E ±12.3km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.0 (TTG).

PLE	0.31	69	ePg	19	41.90	0.1
			eSg	19	46.30	
NKY	0.41	180	ePg	19	44.30	0.6
			iSg	19	50.50	
BRY	0.46	226	ePg	19	44.70	-0.1
			eSg	19	52.10	
TTG	0.81	166	ePg	19	50.50	-0.6
			eSg	20	03.30	
S.D. = 0.8			on 4 of 4 obs.			

JAN 06, 1991 09h 25m 06.44± 0.55s
46.873 N ± 5.6km 8.991 E ± 5.6km
DEPTH = 10.0km (geophysicist)
SWITZERLAND (544)
ML 2.7 (VIE), 2.6 (LDG).

LLS	0.01	139	iPc	25	06.80	-1.7
VDL	0.51	139	iPd	25	15.80	-1.0
ZLA	0.73	326	ePd	25	20.20	-0.7
OSS	0.81	103	iPd	25	20.80	-1.5
SLE	0.96	339	ePd	25	24.10	-0.5
VAI	1.02	189	P	25	27.50	1.8
			eSn	25	41.00	
MMK	1.09	221	ePd	25	26.20	-0.8
FEL	1.20	327	ePn	25	29.06	0.1
MDI	1.20	155	P	25	33.50	4.7X
			eSn	25	54.00	
DIX	1.35	235	ePd	25	31.10	-0.4
SQTA	1.56	76	iPnc	25	35.30	1.0
			iPgd	25	36.00	
			iSg	25	55.30	
EMS	1.64	241	ePc	25	36.90	1.4
BSF	1.78	303	Pg	25	39.20	1.7
			Sg	26	00.70	
WATA	1.83	74	iPgd	25	40.20	2.0
			iSg	26	01.80	
CDF	1.93	324	Pn	25	38.90	-0.8
			Pg	25	43.60	
			Sg	26	05.90	
CTI	2.01	113	P	25	45.00	4.0X
			eSn	26	13.00	
LPL	2.07	230	Pg	25	46.00	4.1X
			Sg	26	12.40	
LPG	2.08	229	Pg	25	46.00	4.0X
HAU	2.12	303	Pn	25	41.60	-0.8
			Sg	26	12.20	
FVI	2.62	95	P	25	56.00	6.5X
S.D. = 1.4			on 15 of 20 obs.			

• JAN 06, 1991 10h 56m 27.35± 0.40s
28.602 S ±12.4km 177.776 W ±11.1km
DEPTH = 66.5km (4 depth phases)
4.9mb (5 obs.)
KERMADEC ISLANDS REGION (177)
Felt on Raoul Island.

RAO	0.66	191	P	56	42.00	0.3
			S	56	52.00	
MNG	13.20	203	eP	59	23.20	-10.2X
			eS	01	44.40	
KHZ	15.48	205	eP	59	55.00	-7.9X
DZM	15.67	291	iPc	00	16.90	11.3X
ASPA	43.43	265	iPd	04	25.90	0.4
	0.4s		20.40nm			5.3mb
Z	22s		0.10um			3.7Msz
WRA	44.25	270	P	04	32.00	-0.2
	0.5s		15.50nm			5.1mb
WARB	49.03	259	eP	05	09.00	-0.7
	0.4s		4.00nm			4.8mb
MBL	56.55	262	eP	06	04.40	-1.1
SPA	61.56	180	eP	06	39.80	0.0
	1.0s		10.00nm			4.9mb
GCC	83.67	42	eP	08	49.90	-0.1
SBB	84.66	46	eP	08	55.00	-0.1
			e	09	13.00	65km
ISA	84.89	45	eP	08	56.00	-0.2
			e	09	15.00	69km
FRI	85.01	43	eP	08	56.30	-0.3
CMB	85.30	42	eP	08	57.70	-0.5
CLC	85.53	45	eP	09	00.00	0.6
			e	09	18.00	64km
GSC	85.70	46	eP	09	00.00	-0.3
			e	09	19.00	69km
WDC	85.80	39	eP	09	01.00	0.5
CHTO	93.16	290	eP	09	38.00	2.3
	0.7s		1.43nm			4.5mb
KEV	136.41	348	ePKP	15	29.00	-13.3X
SOD	138.50	346	ePKP	15	46.00	-0.3
KAF	142.92	341	iPKP	15	49.50	-4.8X
	0.4s		1.20nm			
NUR	144.69	341	iPKP	15	55.20	-2.1
	0.7s		45.40nm			
NB2	147.01	352	PKP	16	02.10	0.8
	0.7s		7.20nm			
HFS	147.52	349	ePKP	16	02.70	0.7
	0.8s		15.00nm			
BCAO	151.40	216	iPKPc	16	17.00	7.6X
	0.2s		28.00nm			
			id	16	25.70	
S.D. = 0.9			on 19 of 25 obs.			

? JAN 06, 1991 11h 01m 28.14± 5.62s
25.000 N ±61.1km 97.319 E ±63.9km
DEPTH = 10.0km (geophysicist)
BURMA-CHINA BORDER REGION (297)

SHL	4.95	278	iP	02	44.50	0.0
			iS	03	38.50	
CHG	6.34	166	eP	03	17.50	13.5X
CHTO	6.34	166	ePn	03	03.90	0.0
			ePg	03	30.60	
BDT	7.88	168	eP	03	47.00	21.5X
GUN	10.65	288	P	04	04.74	0.5
PKI	10.99	286	P	04	08.58	-0.2
KKN	11.14	287	P	04	10.50	-0.3
DMN	11.26	286	P	04	13.26	0.8
GKN	11.75	288	P	04	18.12	-0.8
S.D. = 0.7			on 7 of 9 obs.			

• JAN 06, 1991 11h 25m 08.02± 0.48s
52.585 S ±10.8km 27.707 E ±13.2km
DEPTH = 10.0km (geophysicist)
4.8mb (6 obs.) 4.5Msz (1 obs.)
SOUTH OF AFRICA (430)

MAW	22.64	145	eP	30	09.70	-0.2
KRI	35.71	3	iPd	32	07.30	-1.4
SPA	37.60	180	iPc	32	24.00	-0.3
	0.8s		26.67nm			5.1mb
BCAO	57.33	349	iPd	35	05.70	7.3X
	1.2s		14.00nm			4.9mb
			id	35	38.50	
LIC	64.85	324	P	35	49.54	0.2

06d 11h

Z 20s 0.29um 4.5Msz
KIC 64.88 324 Pd 35 49.38 -0.1
1.4s 24.00nm 5.2mb
TIC 65.24 324 P 35 52.18 0.4
GBA 78.56 49 Pc 37 12.40 1.3
0.8s 3.90nm 4.5mb
CNCB 80.22 255 P 37 22.00 1.1
LPB 80.51 255 P 37 21.00 -1.3
ZOBO 80.73 255 P 37 23.90 0.3
LR 03 08.00
ASPA 80.78 117 iPc 37 22.80 -0.3
1.0s 6.80nm 4.6mb
WRA 84.01 115 P 37 40.00 0.1
0.8s 3.10nm 4.6mb
GLA 146.80 249 ePKP 45 05.00 15.4X
BAR 147.57 246 ePKP 45 06.00 15.1X
GSC 149.56 250 ePKP 45 00.00 6.0X
SBB 149.70 248 ePKP 45 08.00 13.8X
CLC 150.38 249 ePKP 45 02.00 6.8X
ISA 150.77 248 ePKP 45 02.00 6.2X
MBC 153.10 343 ePKP 45 06.50 8.7X
1.5s 19.00nm
LRM 153.37 271 ePKP 45 07.50 8.0X
S.D. = 0.9 on 12 of 21 obs.

% JAN 06, 1991 11h 45m 05.51± 1.16s
40.722 N ±14.3km 28.655 E ± 7.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.5 (ISK).

BNT 0.67 237 ePg 45 18.60 -0.2
eSg 45 28.00
EDC 0.71 238 ePg 45 19.00 -0.5
HRT 0.78 82 iPg 45 20.60 -0.1
iSg 45 32.60
KGT 1.06 256 iPg 45 26.10 0.6
DST 1.12 181 ePn 45 26.70 0.2
S.D. = 0.6 on 5 of 5 obs.

• JAN 06, 1991 12h 14m 06.77± 1.43s
45.543 N ±17.2km 15.337 E ±10.0km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.8 (LJU).

VBY 0.07 236 ePg 14 08.60 -0.5
iSg 14 17.70
PTJ 0.56 50 e(Pg) 14 18.30 0.1
eSg 14 31.90
TRI 1.12 279 P 14 28.50 0.8
eSn 14 46.00
VOY 1.12 296 eP 14 26.60 -1.3
eSn 14 48.60
FVI 2.07 301 P 14 44.00 2.1X
eSg 15 17.00
CTI 2.63 282 P 14 51.00 0.9
eSn 15 28.00
S.D. = 1.3 on 5 of 6 obs.

? JAN 06, 1991 12h 32m 13.07± 4.39s
23.430 S ±20.6km 175.603 W ±15.3km
DEPTH = 256.7 ± 43.7 km
4.5mb (7 obs.)
TONGA ISLANDS REGION (174)

PUZ 15.51 198 P 35 40.10 -0.4
eS 38 28.10
DZM 16.62 271 iPc 35 53.90 0.9
PGZ 18.45 200 eP 36 13.20 1.2
0.4s 19.00nm 5.0mb
MNG 18.71 202 P 36 12.20 -2.5
0.4s 9.00nm 4.6mb
KHZ 20.98 203 eP 36 37.80 0.6
ASPA 46.09 259 iPd 40 12.40 -1.3
0.5s 9.90nm 4.4mb
Z 20s 0.20um 4.1Msz
WRA 46.46 264 P 40 27.00 10.4X
0.6s 3.60nm
FORR 50.20 249 eP 40 45.00 -0.1
0.4s 28.00nm 5.0mb
WARB 52.13 254 eP 40 59.00 -0.6
0.4s 3.00nm 4.1mb
KLB 58.87 246 eP 41 49.00 1.5
MBL 59.33 259 eP 41 49.70 -1.0
BAL 59.94 247 eP 41 55.70 1.0
MUN 60.11 246 eP 41 57.30 1.5
MRWA 60.82 249 eP 42 02.00 1.3
0.5s 4.00nm 4.3mb
FRI 79.89 42 eP 43 54.70 0.0
CMB 80.14 41 eP 43 56.70 0.6
WDC 80.55 38 eP 43 58.40 0.3
CHG 93.31 289 eP 44 58.80 -1.4
CHTO 93.31 289 eP 44 58.40 -1.8
1.0s 5.00nm 4.5mb
MLR 151.88 327 ePKP 51 38.00 6.0X
S.D. = 1.3 on 18 of 20 obs.

? JAN 06, 1991 12h 50m 23.35± 1.51s
1.552 N ±20.6km 77.183 W ±26.2km
DEPTH = 33.0km (normal)
COLOMBIA (103)

CUMC 0.91 230 iPd 50 40.20 0.0
eS 51 52.80
PURC 1.12 47 eP 50 42.90 -0.4
SALC 1.49 19 eP 50 46.20 -2.1
ANCC 1.98 9 ePc 50 55.00 -0.2
HOOC 1.98 16 eP 50 55.10 -0.4
DIAC 1.99 30 iPc 50 56.80 1.3
eS 51 22.00
CLMC 2.40 15 eP 51 03.00 1.7
eS 51 33.80
S.D. = 1.5 on 7 of 7 obs.

& JAN 06, 1991 12h 51m 22.98s
63.197 N 150.466 W
DEPTH = 126.9km
CENTRAL ALASKA (1)
<AEIC>.

HUR 0.44 120 eP 51 41.21 -0.4
eS 51 54.96
RND 0.76 73 iP 51 43.38 -0.5
eS 51 58.91
CUT 0.80 173 iP 51 43.83 -0.2
eS 51 59.53
MCK 0.87 51 iP 51 44.39 -0.4
eS 52 00.24
BWN 1.08 24 eP 51 46.48 -0.2
SKT 1.32 202 eP 51 48.56 -0.6
eS 52 08.28
NEA 1.52 23 eP 51 50.27 -1.1
eS 52 12.00
PWA 1.58 170 eP 51 51.62 -0.4
GHO 1.60 153 eP 51 52.00 -0.5
eS 52 14.88
PLRM 1.73 158 eP 51 52.88 -1.0
eS 52 16.43
SUA 1.74 184 eP 51 53.53 -0.7
CCB 1.87 38 iP 51 54.56 -1.0
NCG 1.97 204 eP 51 56.24 -0.7
eS 52 22.77
HDA 1.98 51 eP 51 55.76 -1.2
PMS 2.01 167 eP 51 56.65 -0.7
eS 52 21.92
KNK 2.02 151 eP 51 56.59 -0.9
eS 52 23.01
MDM 2.02 28 iP 51 56.54 -1.0
CGLM 2.03 202 eP 51 57.66 0.0
FBA 2.08 33 eP 51 57.22 -0.9
BGL 2.14 206 eP 51 59.56 0.5
THY 2.14 82 eP 51 59.61 0.6
DDM 2.15 72 eP 51 58.73 -0.4
SPU 2.16 201 eP 51 59.24 0.0
CKL 2.19 204 eP 51 59.87 0.1
GLM 2.25 36 eP 51 59.50 -0.9
TOA 2.27 117 eP 52 00.20 -0.4
PAX 2.29 93 eP 52 00.39 -0.5
eS 52 27.91
SDG 2.35 104 eP 52 01.08 -0.7
eS 52 29.44
NKA 2.49 189 eP 52 05.25 1.8
TZL 2.60 114 eP 52 03.99 -0.9
SLKM 2.70 177 eP 52 05.48 -0.8
KLU 2.72 127 eP 52 05.12 -1.5
RDT 2.79 200 eP 52 07.47 0.1
GLI 2.82 144 eP 52 06.08 -1.6
VZW 2.82 138 eP 52 06.06 -1.8
VLZ 2.84 135 eP 52 06.02 -1.9
NCT 2.89 205 eP 52 09.18 0.4
RDN 2.90 203 eP 52 08.75 -0.2
DOT 2.91 78 eP 52 07.80 -1.2
KNIM 3.14 154 iP 52 10.02 -1.9
eS 52 45.86
SEW 3.14 171 eP 52 10.33 -1.6
LTI 3.40 157 eP 52 13.55 -1.9
GLB 3.57 117 eP 52 16.46 -1.3
CNPM 3.70 186 eP 52 18.38 -1.1
PDB 3.86 209 eP 52 20.38 -1.2
BALM 4.39 116 eP 52 25.70 -3.1
46 obs. associated

JAN 06, 1991 13h 07m 34.99± 0.22s
43.367 N ± 4.5km 82.948 E ± 4.0km
DEPTH = 12.8km (3 depth phases)
4.7mb (33 obs.)
NORTHERN XINJIANG, CHINA (332)

WMQ 3.48 81 Pn 08 32.90 2.9
Sg 09 25.00
GTA 13.27 102 eP 10 44.40 -1.2
sP 10 55.40
GKN 15.39 174 P 11 13.26 -0.3
0.8s 158.00nm 5.4mb
GUN 15.60 170 P 11 16.60 0.1
0.9s 60.00nm 4.8mb
KKN 15.66 172 P 11 16.54 -0.5
0.8s 89.00nm 5.1mb
DMN 15.82 173 P 11 19.98 0.7
1.0s 82.00nm 4.9mb
PKI 15.89 172 P 11 19.72 -0.4
0.8s 62.00nm 4.8mb
LZH 17.62 107 eP 11 40.50 -1.3
1.5s 37.00nm 4.3mb
sP 11 46.00
QUE 18.32 229 eP 11 52.80 2.2
SHL 19.20 155 eP 12 00.00 -1.4
MAIO 19.31 256 eP 12 03.00 0.4
BTO 20.28 89 eP 12 10.90 -2.2
CD2 20.67 120 eP 12 16.40 -0.6
HHC 21.34 87 P 12 24.00 0.1
XAN 22.23 106 Pd 12 32.50 -0.4
TIY 23.04 94 eP 12 42.00 1.2
Z 10s 0.50um 4.3MszX
KMI 24.37 132 eP 12 55.00 1.0
BJI 24.94 86 eP 13 00.00 0.9
GYA 25.61 123 P 13 06.60 0.9
CHTO 27.95 146 eP 13 26.90 -0.2
1.0s 3.25nm 4.1mb
pP 13 30.90 14km
WHN 27.99 107 Pd 13 29.50 2.1
pP 13 34.00 16km
GBA 30.04 191 P 13 45.00 -0.8
KAF 37.59 320 iP 14 51.50 1.0
0.3s 1.00nm 4.1mb
SOD 38.06 329 eP 14 48.00 -6.3X
NUR 38.35 317 eP 14 57.80 0.9
HFS 43.81 317 eP 15 42.00 0.2
0.4s 1.60nm 4.2mb
NB2 44.85 319 P 15 50.40 0.1
0.8s 4.40nm 4.4mb
CLL 46.40 305 eP 16 03.00 0.4
SQTA 48.97 301 iPc 16 23.40 0.4
0.4s 10.10nm 5.2mb
i 16 26.00 9km
DAG 50.82 343 eP 16 27.00 -9.6X
CDF 50.92 304 eP 16 37.80 0.1
BSF 51.45 303 eP 16 41.80 -0.1
LPG 52.50 301 eP 16 50.60 0.6
0.7s 11.60nm 4.9mb
LPL 52.50 301 eP 16 50.60 0.6
0.6s 18.50nm 5.2mb
LOR 53.49 304 eP 16 56.20 -0.8
0.7s 6.05nm 4.7mb
SMF 53.78 303 eP 16 58.90 -0.2
0.5s 2.90nm 4.5mb
SSF 53.79 304 eP 16 58.60 -0.6
0.5s 1.45nm 4.2mb
AVF 54.01 303 eP 17 00.60 -0.2
0.5s 2.90nm 4.6mb
MAF 54.76 303 eP 17 06.30 0.0
0.5s 3.30nm 4.6mb
TCF 54.94 303 eP 17 07.60 -0.1
0.5s 5.85nm 4.9mb
LDF 55.24 307 eP 17 09.30 -0.5
0.4s 2.85nm 4.7mb
FLN 55.37 307 eP 17 10.20 -0.5
0.6s 5.40nm 4.8mb
LSF 55.38 304 eP 17 10.10 -0.7
0.7s 8.25nm 4.9mb

```
GRR     55.77 307 eP     17 13.10  -0.5
        0.5s      5.10nm          4.8mb
RJF     55.85 303 eP     17 14.70   0.5
        0.7s      7.70nm          4.8mb
LPF     56.05 306 eP     17 15.00  -0.6
        0.5s      4.35nm          4.7mb
LPO     56.36 302 eP     17 18.10   0.2
        0.5s      5.85nm          4.9mb
LFF     56.50 302 eP     17 19.40   0.5
        0.7s     14.35nm          5.1mb
EPF     57.72 301 eP     17 26.80  -0.9
        0.7s      4.95nm          4.6mb
MBC     59.81   6 eP     17 41.00  -0.7
        0.5s      3.00nm          4.7mb
FBA     65.04  21 eP     18 16.00  -0.6
        0.8s      1.00nm          4.0mb
INK     65.35  14 eP     18 05.00 -13.5X
BCAO    68.50 255 iPd    18 20.10 -19.1X
        0.5s     10.00nm
                   id     18 46.90 106kmX
YKA     73.55   8 eP     19 07.60  -1.3
        0.9s      2.30nm          4.2mb
WRA     78.69 131 P      19 38.00  -0.4
        1.0s      9.20nm          4.8mb
ASPA    81.48 134 iPd    19 53.70   0.4
        0.5s      8.40nm          5.0mb
KIC     84.00 273 P      20 06.00  -0.6
     S.D. = 0.9  on  53 of  57 obs.
-------------------------------------
&  JAN  06, 1991  13h 32m 17.41s
   58.236 N          143.066 W
   DEPTH =  10.0km  (geophysicist)
   3.0mb (  1 obs.)
 GULF OF ALASKA                 ( 15)
      <AEIC>.

KAIM    1.83 338 iP      32 44.41  -4.8
WRG     1.88  16 eP      32 45.11  -4.8
MID     2.08 306 eP      32 47.24  -5.5
YKU     2.18  51 eP      32 49.38  -4.8
HMT     2.19 344 eP      32 49.38  -5.1
WAX     2.22   3 iP      32 49.60  -5.3
                eS      33 14.30
YAH     2.24  17 iP      32 50.23  -5.1
RAGM    2.31 340 eP      32 50.82  -5.3
PNL     2.38  51 iP      32 51.55  -5.6
BCPM    2.47  44 eP      32 52.80  -5.5
HQN     2.50  59 iP      32 53.03  -5.7
                eS      33 21.00
SGAM    2.52 335 iP      32 54.14  -4.9
                eS      33 23.60
TGL     2.53   3 eP      32 54.04  -5.3
                eS      33 22.72
CVA     2.69 331 eP      32 56.04  -5.5
HIN     2.79 322 eP      32 57.49  -5.5
BALM    2.83   7 iP      32 58.24  -5.4
                eS      33 29.70
CTGM    2.88  17 eP      32 58.79  -5.5
                eS      33 31.07
MTU     2.95 309 iP      32 59.03  -6.1
LTI     3.06 308 iP      33 00.51  -6.2
KNIM    3.20 313 eP      33 02.22  -6.5
GLB     3.24 354 eP      33 03.51  -5.8
VZW     3.34 329 eP      33 04.18  -6.6
VLZ     3.34 332 eP      33 04.13  -6.6
GLI     3.35 324 iP      33 04.48  -6.4
KLU     3.57 337 eP      33 07.66  -6.4
SEW     3.78 302 eP      33 09.65  -7.3
TZL     4.00 344 eP      33 14.41  -5.6
TOA     4.18 340 eP      33 16.41  -6.3
KNK     4.19 322 eP      33 17.00  -5.8
SLKM    4.31 305 eP      33 17.46  -7.1
CNPM    4.43 290 eP      33 20.25  -6.0
PMS     4.46 315 eP      33 20.20  -6.4
PLRM    4.54 320 eP      33 21.56  -6.2
GHO     4.61 323 eP      33 22.77  -6.0
NNL     4.61 297 eP      33 23.85  -4.9
SPU     5.42 307 eP      33 33.00  -7.3
CGLM    5.47 308 eP      33 34.13  -6.8
CUT     5.50 322 eP      33 35.30  -6.0
SKT     5.66 315 eP      33 36.29  -7.3
YKA    14.64  61 eP      35 48.20   2.1
       0.6s      0.30nm          3.0mb
       40 obs. associated
-------------------------------------
?  JAN  06, 1991  13h 56m 48.97± 2.63s
   0.122 N ±43.1km   122.723 E ±57.8km
   DEPTH =  81.8 ± 17.0 km
   4.4mb (  4 obs.)
 MINAHASSA PENINSULA            (265)

TSM     6.18 311 eP      58 19.50   0.0
ASPA   26.02 156 iPd     02 16.30   0.0
       1.0s      5.60nm          4.0mb
     Z 23s       0.10um          3.3MszX
CHG    29.83 310 eP      02 51.00   0.2
CHTO   29.83 310 eP      02 50.90   0.1
       1.0s      5.00nm          4.2mb
SHL    39.07 313 eP      04 10.00   0.0
GUN    44.83 311 P       04 57.32   0.1
       0.9s     46.00nm          5.3mb X
PKI    45.01 310 P       04 58.46  -0.2
       0.7s      8.00nm          4.7mb
KKN    45.22 311 P       05 00.08  -0.1
       0.8s     27.00nm          5.2mb
DMN    45.26 310 P       05 00.62   0.1
       0.8s     42.00nm          5.3mb X
GKN    45.82 310 P       05 04.80   0.0
       0.9s     39.00nm          5.3mb X
HYB    46.73 294 eP      05 12.00   0.0
     S.D. = 0.1  on  11 of  11 obs.
-------------------------------------
?  JAN  06, 1991  14h 48m 01.65± 1.99s
   12.300 S ±49.8km   76.834 W ±42.5km
   DEPTH =  74.4 ±  6.1 km
   4.0mb (  2 obs.)
 NEAR COAST OF PERU             (115)
      Felt (IV) at Limo.

PT10    0.26 329 iPd     48 13.00  -0.2
                eS      48 23.00
NNA     0.31 358 iPc     48 13.70   0.1
       0.6s    400.00nm
ZOBO    9.32 116 P       50 17.00   0.9
LPB     9.45 117 eP      50 18.00   0.3
CNCB    9.67 119 eP      50 20.00  -0.9
TUL    51.19 340 eP      56 59.40   0.0
       0.6s      3.10nm          4.5mb
ALQ    54.74 330 eP      57 26.00  -0.1
KIC    74.01  80 P       59 31.00  -0.7
YKA    80.14 343 eP      00 05.30   0.6
       0.6s      0.40nm          3.5mb
     S.D. = 0.7  on   9 of   9 obs.
-------------------------------------
&  JAN  06, 1991  14h 59m 12.44s
   60.285 N          151.186 W
   DEPTH =  52.2km
 KENAI PENINSULA, ALASKA        ( 14)
      <AEIC>.

NNL     0.25 193 iP      59 22.21   0.8
NKA     0.46 357 iP      59 24.88   1.4
SLKM    0.53  65 iP      59 23.70  -0.6
                eS      59 33.14
BRLK    0.54 164 eP      59 23.88  -0.6
                eS      59 32.85
HOM     0.67 200 iP      59 25.79  -0.2
                eS      59 35.86
RDT     0.67 296 iP      59 25.40  -0.7
CNPM    0.76 182 iP      59 26.54  -0.7
                eS      59 37.80
REF     0.78 286 iP      59 26.86  -0.8
                eS      59 38.45
RSO     0.80 284 eP      59 27.10  -0.8
                eS      59 39.13
RED     0.80 280 iP      59 26.94  -0.9
                eS      59 38.38
RS2     0.80 284 eP      59 27.15  -0.8
RDN     0.82 287 iP      59 27.06  -1.0
                eS      59 38.77
SEW     0.89 101 eP      59 28.06  -0.8
NCT     0.91 289 eP      59 28.44  -0.8
INE     0.96 257 iP      59 29.02  -1.1
                eS      59 42.16
SPU     1.00 335 iP      59 29.97  -0.4
                eS      59 43.64
CKL     1.08 329 eP      59 31.09  -0.5
                eS      59 44.78
CGLM    1.10 339 eP      59 31.49  -0.4
BGL     1.15 329 eP      59 32.44  -0.1
SUA     1.20  10 eP      59 33.05  -0.3
OPT     1.21 239 eP      59 32.51  -0.8
                eS      59 47.72
NCG     1.22 337 eP      59 33.20  -0.3
PMS     1.25  39 eP      59 33.75  -0.2
AUP     1.46 232 eP      59 36.10  -0.8
AUH     1.47 232 eP      59 36.44  -0.5
AUI     1.48 231 eP      59 36.28  -0.8
PWA     1.51  24 eP      59 37.07  -0.4
PDB     1.59 253 eP      59 37.77  -0.8
                eS      59 57.99
SKT     1.71 355 eP      59 40.09  -0.2
KNIM    1.72  86 eP      59 38.26  -2.2
KNK     1.75  49 eP      59 39.93  -1.0
SYI     1.79 201 eP      59 40.57  -0.8
MTU     1.79  98 eP      59 39.85  -1.6
GHO     1.85  35 eP      59 41.59  -0.8
MCNL    1.94 237 eP      59 42.60  -1.0
GLI     2.11  72 eP      59 43.43  -2.5
VZW     2.41  69 eP      59 48.18  -2.0
VLZ     2.53  68 eP      59 49.36  -2.5
KLU     2.84  63 eP      59 54.48  -2.0
       39 obs. assaciated
-------------------------------------
   JAN  06, 1991  15h 01m 16.67± 1.20s
   38.805 N ± 6.3km   26.810 E ±12.4km
   DEPTH =  13.5 ±  4.6 km
 AEGEAN SEA                     (365)
      MD 3.3 (ISK).

IZM     0.54 139 iPg     01 27.60   0.1
                eSg     01 36.70
EZN     1.09 340 ePn     01 37.00   0.3
CIN     1.57 140 ePg     01 44.00  -0.2
                iSg     02 01.00
DST     1.62  60 iPn     01 45.00   0.0
KGT     1.69  13 iPn     01 46.00   0.1
EDC     1.74  28 ePn     01 46.00  -0.7
BNT     1.77  29 ePn     01 46.50  -0.6
KHL     2.18 102 ePn     01 53.00  -0.2
IZI     2.56  53 ePn     01 59.00   0.4
YLV     2.65  48 ePn     02 00.50   0.7
     S.D. = 0.5  on  10 of  10 obs.
-------------------------------------
%  JAN  06, 1991  15h 06m 48.55± 0.88s
   40.183 N ± 7.7km   27.917 E ± 6.7km
   DEPTH =  12.9 ±  5.5 km
 TURKEY                         (366)
      MD 3.0 (ISK).

EDC     0.17 346 iPg     06 52.50  -0.2
BNT     0.17   1 iPg     06 53.00   0.3
KGT     0.54 300 iPg     06 59.50   0.1
DST     0.79 136 iPg     07 03.70  -0.1
                eSg     07 15.20
YLV     1.18  71 iPn     07 10.00  -0.3
IZI     1.20  82 ePn     07 11.00   0.3
HRT     1.48  64 iPn     07 15.00   0.1
DMK     1.64 356 ePn     07 17.00  -0.2
     S.D. = 0.3  on   8 of   8 obs.
-------------------------------------
   JAN  06, 1991  15h 24m 33.64± 0.26s
   40.745 N ± 3.1km   28.616 E ± 2.3km
   DEPTH =  12.3 ±  2.4 km
 TURKEY                         (366)
      MD 3.6 (ISK), 3.3 (ATH).

ISK     0.46  46 iPg     24 43.00  -0.2
ITU     0.47  40 iPgc    24 43.00  -0.3
                iSg     24 57.00
YLV     0.60 107 iPg     24 45.00  -0.7
GBZT    0.63  86 iPgc    25 47.50  61.4X
                eSg     25 56.50
BNT     0.66 234 iPg     24 46.50   0.0
EDC     0.70 235 ePg     24 47.00  -0.2
IZI     0.77 122 iPg     24 48.50   0.0
HRT     0.80  84 iPg     24 49.00   0.0
KGT     1.04 254 iPn     24 52.50  -0.6
DST     1.14 180 iPn     24 54.60  -0.2
DMK     1.26 329 iPn     24 57.00   0.2
GPA     1.37 109 iPn     24 59.30   0.8
EZN     1.98 243 iPn     25 07.90   0.7
JMB     2.30 319 eP      25 12.80   0.9
PRK     2.34 231 ePb     25 12.10  -0.4
RDO     2.37 281 ePb     25 12.40  -0.4
KHL     2.52 164 iPn     25 14.60  -0.5
IZM     2.57 204 ePn     25 16.00   0.3
KDZ     2.58 292 eP      25 15.00  -0.9
DIM     2.66 300 eP      25 16.50  -0.5
RZN     3.09 289 eP      25 22.50  -0.7
PLD     3.24 296 eP      25 25.50   0.3
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06d 15h

```
BBTK     3.30 105 eP     25 35.00    8.8X
SMG      3.33 205 ePb    25 38.70   12.2X
PVL      3.48 316 eP     25 28.00   -0.5
MMB      3.79 284 ePd    25 32.80   -0.2
PGB      3.79 300 iPc    25 33.00   -0.1
KAS      3.94  79 eP     25 42.50    7.2X
VTS      4.45 296 iPd    25 43.80    1.2
VAY      4.61 279 ePn    25 52.00    7.3X
MLR      5.13 338 eP     25 56.00    3.9X
CMP      5.23 331 ePc    26 05.00   11.6X
VRI      5.30 346 eP     26 06.00   11.5X
SKO      5.54 285 ePn    26 01.10    3.3X
                  i      26 22.00
      S.D. = 0.6  on  25 of  34 obs.
-------------------------------------------
%  JAN  06, 1991  15h 37m 14.55± 1.21s
   40.774 N ±13.8km   28.668 E ± 5.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 2.7 (ISK).

YLV      0.57 111 iPg    37 26.50    0.2
BNT      0.71 234 iPg    37 28.00   -0.5
                  iSg    37 37.50
IZI      0.75 125 iPg    37 29.70    0.4
                  eSg    37 39.00
HRT      0.76  86 iPg    37 29.00   -0.4
KGT      1.09 253 iPn    37 35.50    0.5
DST      1.17 182 iPn    37 36.20   -0.2
      S.D. = 0.6  on   6 of   6 obs.
-------------------------------------------
   JAN  06, 1991  15h 46m 38.61± 0.23s
   38.770 N ± 3.7km   88.305 E ± 4.6km
   DEPTH =  22.0km  (  4 depth phases)
   4.9mb ( 31 obs.)  4.2Msz (  1 obs.)
 SOUTHERN XINJIANG, CHINA            (321)

WMO      5.07 355 iPnd   47 56.60    1.4
     Z  12s      1.40um
                  Sg     49 17.40
GTA      8.97  82 eP     48 48.40   -1.6
     Z  12s      0.90um
     N  10s      0.80um
GUN     11.02 191 P      49 18.80    0.5
        1.2s    85.00nm          5.9mb
GKN     11.17 197 P      49 20.16    0.0
        1.3s   114.00nm          6.0mb X
KKN     11.24 194 P      49 22.10    0.9
PKI     11.43 193 P      49 24.66    0.8
        1.5s   117.00nm          5.9mb
DMN     11.45 194 P      49 25.06    1.0
LZH     12.64  97 eP     49 37.00   -3.1X
     Z  10s      0.48um
     E  10s      0.43um
                  i      49 47.00
                  i      50 46.50
                  e(S)   51 51.00
                  Lg     53 15.00
SHL     13.51 166 eP     49 50.50   -1.1
                  eS     55 06.00
CD2     14.90 117 eP     50 14.40    4.7X
BTO     16.81  77 eP     50 35.00    0.7
XAN     17.25 100 eP     50 45.00    5.3X
TIY     18.97  86 eP     50 57.70   -3.3X
     Z  12s      0.72um
QUE     19.54 250 eP     51 06.90   -1.0
GYA     19.70 123 P      51 09.00   -0.6
                  pP     51 15.60   26km
BJI     21.54  78 eP     51 29.00    0.7
        1.0s    14.00nm          4.3mb
     N  10s      0.38um
                  pP     51 33.50   16km
CHG     21.93 152 eP     51 33.60    1.2
CHTO    21.93 152 eP     51 32.20   -0.2
        1.0s    5.25nm           3.9mb X
                  pP     51 38.40   22km
                  sP     51 42.70
HYB     22.92 205 eP     51 40.80   -1.4
MAIO    22.94 273 eP     51 45.00    2.6
TIA     22.97  87 eP     51 44.00    1.5
NST     25.25 152 eP     52 09.00    4.4X
GBA     26.85 204 Pc     52 16.90   -2.6
        0.6s    7.30nm           4.5mb
MLR     45.71 299 ePc    55 04.50    4.8X
UPP     48.02 320 iP     55 17.90    0.3
HFS     49.93 321 eP     55 32.20   -0.1
        0.7s    8.30nm           4.9mb
     Z  18s      0.22um           4.2Msz
                  LR     14 52.00
NB2     50.97 322 P      55 39.80   -0.5
        7.0s    6.60nm           3.7mb X
CDF     56.89 308 eP     56 24.00   -0.1
        0.7s    5.50nm           4.7mb
BSF     57.42 308 eP     56 27.70   -0.1
        0.5s    4.35nm           4.7mb
HAU     57.62 308 eP     56 29.00   -0.2
LPG     58.40 305 iPc    56 35.40    0.4
        0.6s   18.95nm           5.3mb
LPL     58.40 305 iPc    56 35.40    0.5
        0.5s   21.15nm           5.5mb
LOR     59.46 308 eP     56 41.20   -0.8
        0.6s    3.15nm           4.6mb
LBF     59.51 308 eP     56 41.80   -0.6
        0.7s    7.15nm           4.9mb
SMF     59.74 307 iPc    56 43.60   -0.3
        0.7s   18.20nm           5.3mb
SSF     59.76 308 eP     56 43.60   -0.5
        0.6s    2.70nm           4.6mb
EKA     59.98 319 P      56 46.00    0.6
        2.3s  177.50nm           5.8mb
AVF     59.98 308 iPc    56 45.30   -0.2
        0.5s    4.00nm           4.8mb
8GF     60.39 308 eP     56 48.00   -0.4
        0.8s   12.75nm           5.1mb
MAF     60.72 307 iPc    56 50.80    0.2
        0.7s    6.60nm           4.9mb
TCF     60.91 308 iPc    56 52.00    0.1
        0.6s    9.00nm           5.1mb
LDF     61.28 311 eP     56 53.90   -0.4
        0.7s   13.25nm           5.2mb
LSF     61.35 308 eP     56 54.30   -0.6
FLN     61.41 311 eP     56 54.60   -0.6
        0.7s    5.50nm           4.8mb
CAF     61.62 306 eP     56 57.10    0.3
        0.7s    4.40nm           4.7mb
RJF     61.79 307 eP     56 58.40    0.5
        0.7s    5.50nm           4.8mb
GRR     61.81 311 iPc    56 57.40   -0.5
        0.7s   15.45nm           5.3mb
LPF     62.08 311 eP     56 59.10   -0.7
        0.5s    4.35nm           4.9mb
LPO     62.29 306 eP     57 01.50    0.3
        0.7s    8.80nm           5.0mb
LFF     62.45 307 iPc    57 02.80    0.6
        0.5s   11.65nm           5.3mb
MBC     63.91   7 eP     57 11.00   -0.4
BCAO    71.49 261 iPc    58 00.60    0.7
        0.4s   20.00nm           5.6mb
                  id     58 08.10   24km
WRA     72.60 135 P      58 12.00    5.8X
        0.8s    2.60nm           4.3mb
ASPA    75.37 137 eP     58 25.40    3.2X
        1.3s    3.90nm           4.3mb
FRB     76.18 350 eP     58 25.00   -1.2
YKA     77.41  11 eP     58 32.50   -0.6
        0.8s    1.50nm           4.1mb
FFC     86.46   6 eP     59 20.00   -0.5
        0.8s   11.00nm           5.1mb
KIC     88.43 277 P      59 30.90    0.3
LIC     88.74 277 P      59 31.80   -0.3
SIV    144.86 302 PKP    06 15.50   -0.4
ZOBO   149.52 311 ePKP   06 26.00    1.9
LPB    149.71 310 ePKP   06 34.00    9.8X
CNCB   149.86 310 ePKP   06 25.00    0.4
      S.D. = 0.9  on  54 of  63 obs.
-------------------------------------------
%  JAN  06, 1991  16h 09m 34.52± 0.78s
   40.527 N ±10.7km   28.837 E ± 5.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 3.1 (ISK).

YLV      0.41  84 iPg    09 42.00   -0.9
IZI      0.52 111 iPg    09 45.80    0.7
                  eSg    09 51.00
ISK      0.56  17 iPg    09 46.50    0.6
HRT      0.70  65 iPg    09 46.90   -1.4
BNT      0.72 257 ePg    09 48.40   -0.3
EDC      0.76 257 ePg    09 49.00   -0.5
DST      0.93 190 ePn    10 00.00    7.6X
      S.D. = 1.1  on   6 of   7 obs.
-------------------------------------------
?  JAN  06, 1991  16h 10m 11.77± 1.36s
   3.593 N ± 9.4km   76.351 W ±10.0km
   DEPTH =  10.0km  (geophysicist)
 COLOMBIA                            (103)
      MD 2.1 (UVC).

HOOC     0.31 246 iPd    10 18.67    0.4
                  eS     10 23.20
DIAC     0.34 153 iPc    10 18.76    0.0
                  eS     10 23.30
CLMC     0.36 324 eP     10 19.23    0.1
ANCC     0.52 261 iPd    10 21.95   -0.4
      S.D. = 0.5  on   4 of   4 obs.
-------------------------------------------
*  JAN  06, 1991  16h 11m 00.25± 2.27s
   44.514 N ±13.1km  149.579 E ±10.7km
   DEPTH =  73.9 ± 20.1 km
   4.2mb ( 10 obs.)
 KURIL ISLANDS                       (221)

MAT     11.75 231 (P)    13 48.00    1.2
MDJ     14.25 277 eP     14 18.80   -0.8
CN2     17.32 276 eP     14 57.00   -1.4
HHC     28.02 276 eP     16 47.40    1.2
BTO     29.20 276 eP     17 01.00    4.1X
LZH     35.49 272 eP     17 52.00    0.3
        1.2s   26.00nm           5.0mb
                  pP     18 17.00  108kmX
                  sP     18 29.00
IMA     37.06  34 eP     18 04.50    0.0
        0.7s    3.60nm           4.4mb
CD2     38.22 265 eP     18 14.60    0.1
FBA     39.44  37 eP     18 25.70    1.5
        0.9s    1.10nm           3.8mb
WMO     43.44 292 P      18 58.00    0.7
MBC     47.53  19 eP     19 30.00    0.7
CHTO    49.17 255 eP     19 42.90    0.2
        0.9s    1.92nm           4.1mb
                  pP     19 57.00   53kmX
GUN     52.71 274 P      20 10.08    0.2
KKN     53.21 275 P      20 13.82    0.5
PKI     53.25 274 P      20 13.84    0.1
DMN     53.44 274 P      20 14.24   -0.8
GKN     53.54 275 P      20 15.89    0.2
YKA     54.19  35 eP     20 18.70   -1.1
        0.8s    0.50nm           3.6mb
WRA     65.64 196 P      21 37.00   -1.5
        0.9s    2.10nm           4.1mb
G8A     67.88 267 Pd     21 52.60   -0.3
        0.7s    1.80nm           4.1mb
FRB     67.95  17 eP     21 52.00   -0.7
NB2     69.51 340 P      22 01.00   -1.4
        0.7s    2.90nm           4.3mb
HFS     69.65 338 eP     22 01.50   -1.7
        0.5s    1.10nm           4.0mb
KRA     76.12 329 eP     22 42.40    1.1
CLL     77.42 334 eP     22 49.00    0.5
        1.5s   18.00nm           4.8mb
KHC     79.12 332 eP     22 59.10    1.2
      S.D. = 1.0  on  25 of  26 obs.
-------------------------------------------
   JAN  06, 1991  16h 19m 37.01± 0.42s
   40.763 N ± 4.3km   28.623 E ± 3.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 3.3 (ISK).

ISK      0.45  47 iPg    19 46.50    0.4
                  iSg    19 52.00
YLV      0.60 109 iPg    19 48.50   -0.8
BNT      0.67 233 iPg    19 49.70   -0.7
EDC      0.71 235 ePg    19 50.50   -0.5
                  eSg    20 00.00
IZI      0.78 123 iPg    19 51.50   -0.7
HRT      0.80  85 iPg    19 52.50    0.0
                  eSg    20 04.00
KGT      1.05 253 iPg    19 56.90    0.1
                  eSg    20 11.00
DST      1.16 180 ePn    19 58.90    0.2
DMK      1.24 329 iPn    20 00.00   -0.1
GPA      1.37 110 iPn    20 02.40    0.2
EZN      1.99 243 iPn    20 11.50    0.5
ALT      2.05 146 ePn    20 12.40    0.3
KHL      2.53 164 ePn    20 19.60    0.7
IZM      2.59 204 ePn    20 20.00    0.4
BBTK     3.30 105 eP     20 42.00   12.2X
                  eS     21 25.00
      S.D. = 0.5  on  14 of  15 obs.
-------------------------------------------
```

? JAN 06, 1991 16h 39m 43.36± 7.97s
22.886 S ±80.1km 179.384 W ±94.2km
DEPTH = 684.8 ± 28.0 km
5.2mb (2 obs.)
SOUTH OF FIJI ISLANDS (171)

DZM	13.13	271	iPc	42	32.80	-0.1
PUZ	15.27	187	eP	42	52.20	-0.5
WLZ	15.52	195	eP	42	55.70	0.8
TAZ	15.70	192	eP	42	57.30	0.8
NOZ	15.84	187	eP	42	56.60	-1.2
NGZ	16.79	194	eP	43	07.50	0.7
CNZ	16.83	194	eP	43	08.40	1.3
PGZ	18.06	191	eP	43	18.30	0.1
MNG	18.20	193	eP	43	18.70	-0.8
KIW	18.56	194	eP	43	22.20	-0.6
MTW	18.72	192	eP	43	23.40	-0.8
WEL	18.99	194	P	43	27.00	0.3
TCW	19.04	195	eP	43	27.20	0.2
THZ	19.90	197	eP	43	35.50	0.5
			eS	46	36.40	
KHZ	20.35	195	Pd	43	39.00	0.1
	0.2s		33.00nm		5.3mb	
LTZ	21.02	197	P	43	44.50	-0.5
MOZ	21.79	196	P	43	51.80	0.1
MMCZ	23.98	200	P	44	10.70	-0.5
MHZ	23.99	200	P	44	11.40	0.2
CMS	32.00	247	eP	45	19.00	-0.6
TOO	33.48	236	eP	45	31.00	-0.8
FORR	47.16	249	iPd	47	21.00	1.2
	0.4s		32.00nm		5.1mb	

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

& JAN 06, 1991 17h 14m 01.13s
59.826 N 153.790 W
DEPTH = 147.5km
3.8mb (1 obs.)
SOUTHERN ALASKA (2)
<AEIC>.

PDB	0.21	260	iP	14	20.24	0.5
			iS	14	35.39	
OPT	0.33	121	iP	14	21.11	0.9
			eS	14	36.15	
INE	0.44	57	iP	14	21.37	-1.0
AUH	0.50	159	iP	14	21.75	-0.8
AUP	0.50	158	iP	14	21.78	-0.8
AUE	0.51	155	iP	14	21.60	-0.9
AUI	0.53	159	iP	14	21.68	-0.9
MCNL	0.70	204	iP	14	22.52	-1.1
			eS	14	38.91	
RED	0.78	40	iP	14	23.27	-1.0
RS2	0.82	39	iP	14	23.77	-1.0
RSO	0.82	39	iP	14	23.77	-1.0
			eS	14	41.17	
NCT	0.85	30	iP	14	23.90	-1.0
			eS	14	41.78	
RDN	0.86	36	iP	14	24.05	-0.9
REF	0.86	39	iP	14	24.03	-1.0
CDD	0.90	175	iP	14	24.02	-1.1
RDT	1.02	42	eP	14	25.36	-0.8
HOM	1.10	98	eP	14	25.98	-0.8
XLV	1.11	109	iP	14	25.98	-1.0
			eS	14	44.67	
NNL	1.27	79	iP	14	28.34	-0.1
CNPM	1.33	102	iP	14	27.73	-1.4
			iS	14	48.12	
SYI	1.42	149	iP	14	28.38	-1.5
			eS	14	49.44	
BRLK	1.47	91	eP	14	29.21	-1.3
			eS	14	50.28	
CKL	1.55	27	iP	14	30.81	-0.7
NKA	1.57	53	iP	14	32.05	0.5
SVW	1.57	326	iPc	14	30.80	-0.9
BGL	1.60	25	iP	14	31.50	-0.5
SPU	1.61	32	iP	14	31.11	-1.0
CGLM	1.73	30	iP	14	32.55	-0.9
NCG	1.78	26	iP	14	33.37	-0.6
SLKM	1.91	67	eP	14	33.80	-1.7
KDC	2.19	161	iPc	14	35.80	-2.9
SEW	2.20	81	iP	14	37.20	-1.7
SUA	2.23	41	iP	14	38.09	-1.2
			eS	15	06.90	
SKT	2.43	26	iP	14	40.53	-1.2
PMS	2.53	54	iPd	14	40.90	-2.1
PWA	2.65	45	iPd	14	42.40	-2.1
PLRM	2.90	50	eP	14	44.52	-3.0
PMR	2.90	50	iPd	14	44.40	-3.1
LTI	3.00	83	eP	14	47.34	-1.5
KNK	3.07	57	iP	14	46.99	-2.9
KNIM	3.08	78	iP	14	47.33	-2.6
GHO	3.08	49	iP	14	47.16	-2.9
MTU	3.10	84	iP	14	48.58	-1.6
CUT	3.10	32	iP	14	48.33	-1.9
TTA	3.29	342	iP	14	51.12	-1.7
GLI	3.49	69	eP	14	51.76	-3.5
HUR	3.74	30	eP	14	56.39	-2.2
VZW	3.79	68	eP	14	56.20	-3.1
MID	3.81	93	eP	14	57.20	-2.2
VLZ	3.92	67	eP	14	57.67	-3.2
CVA	4.08	76	iP	15	00.76	-2.3
KLU	4.22	63	iP	15	02.05	-2.9
RND	4.30	31	eP	15	03.48	-2.5
SGAM	4.34	77	eP	15	03.68	-2.9
TOA	4.36	55	iPd	15	04.50	-2.3
MCK	4.55	28	eP	15	06.99	-2.3
RAGM	4.60	79	iP	15	07.57	-2.4
TZL	4.65	58	eP	15	08.06	-2.5
KAIM	4.73	85	eP	15	09.75	-1.9
HMT	4.80	80	eP	15	10.26	-2.4
BWN	4.81	23	eP	15	10.82	-2.0
SDG	4.82	52	eP	15	10.31	-2.7
PAX	5.09	48	eP	15	14.00	-2.6
GLB	5.17	67	eP	15	14.97	-2.7
NEA	5.25	23	eP	15	15.96	-2.7
DDM	5.47	40	eP	15	20.32	-1.3
WAX	5.50	79	eP	15	19.62	-2.5
TGL	5.53	76	iP	15	20.40	-2.1
CCB	5.59	27	eP	15	19.94	-3.2
HDA	5.60	32	eP	15	20.34	-3.0
MDM	5.76	24	eP	15	22.51	-3.0
SDN	5.76	222	eP	15	22.50	-3.0
8ALM	5.80	73	eP	15	23.62	-2.5
FBA	5.80	26	ePd	15	23.00	-3.1
WRG	5.92	83	eP	15	26.05	-1.6
IMA	6.27	0	eP	15	30.70	-1.8
CTGM	6.28	74	iP	15	30.93	-1.7
YKU	7.12	86	e(P)	15	42.80	-1.1
BCPM	7.12	83	eP	15	40.96	-3.0
PNL	7.28	85	eP	15	43.17	-2.8
HQN	7.57	86	eP	15	46.95	-2.9
SIT	10.06	98	P	16	20.50	-2.4
INK	12.22	37	eP	16	48.00	-3.1
INK	12.22	37	eP	16	43.00	-8.1
MBC	20.34	23	eP	18	24.50	-2.4
	0.5s		2.00nm		3.8mb	

85 obs. associated

JAN 06, 1991 17h 15m 21.00± 1.10s
32.910 N ± 7.2km 140.876 E ± 9.5km
DEPTH = 20.6 ± 7.5 km
5.1mb (3 obs.)
SOUTH OF HONSHU, JAPAN (211)

KAKJ	3.34	350	P	16	13.70	0.6
CHJJ	3.49	334	P	16	15.30	-0.1
			S	16	51.50	
IIDJ	3.55	317	iP+	16	17.00	0.8
MAT	4.24	330	iPc	16	26.60	0.7
			eS	17	10.00	
MTMJ	4.45	326	P	16	30.10	1.0
WKYJ	4.60	288	eP	16	30.30	-0.9
YAMJ	5.30	353	P	16	40.20	-0.7
			eS	17	36.90	
TKSJ	5.81	282	eP	16	48.20	0.1
OFUJ	6.19	6	P	16	52.50	-1.0
			eS	17	55.70	
YONJ	6.56	292	eP	16	57.90	-0.9
WRA	52.93	188	P	24	38.00	0.0
	0.4s		5.40nm		4.8mb	
ASPA	56.65	188	eP	25	05.30	0.2
	0.4s		8.00nm		5.1mb	
FORR	64.56	192	eP	25	59.00	0.3
	0.4s		19.00nm		5.6mb	

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

? JAN 06, 1991 17h 40m 28.87± 5.02s
4.234 N ±28.3km 76.380 W ±19.9km
DEPTH = 89.5 ± 38.0 km
COLOMBIA (103)
MD 3.3 (UVC).

HOBC	0.27	64	iPd	40	42.39	0.0
			eS	40	52.90	
BUGC	0.36	160	eP	40	43.07	0.1
			eS	40	54.10	
CLMC	0.39	208	iPd	40	43.54	0.3
			eS	40	54.90	
HOQC	0.80	198	ePc	40	46.73	-0.2
			eS	41	00.40	
ANCC	0.86	214	iPd	40	46.78	-0.5
DIAC	0.95	169	iPc	40	48.11	-0.4
SALC	1.29	194	eP	40	53.21	0.7
SILC	1.54	179	eP	40	55.65	-0.2
PURC	1.90	179	eP	41	00.91	0.2

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

% JAN 06, 1991 18h 16m 52.53± 1.22s
40.763 N ±14.0km 28.644 E ± 5.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.4 (ISK).

YLV	0.59	109	iPg	17	04.40	-0.1
			iSg	17	12.40	
BNT	0.69	234	iPg	17	05.40	-0.7
			eSg	17	15.40	
IZI	0.76	124	iPg	17	07.00	-0.5
HRT	0.78	85	iPg	17	08.00	0.3
			iSg	17	19.00	
KGT	1.07	253	iPn	17	13.00	0.4
DST	1.16	181	ePn	17	14.80	0.6

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

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* JAN 06, 1991 18h 34m 33.56± 1.61s
13.328 S ±14.7km 166.421 E ±20.3km
DEPTH = 146.1 ± 12.2 km
4.8mb (8 obs.)
VANUATU ISLANDS (186)

BKM	4.66	158	iP	35	45.00	1.8
			iS	36	42.50	
HNR	7.43	301	eP	36	20.00	-0.6
			eS	37	43.00	
VSG	7.73	301	eP	36	25.00	0.4
			eS	37	48.00	
DZM	8.70	180	iPd	36	35.10	-2.5
			iS	38	11.80	
ASPA	32.44	247	eP	40	51.20	-0.8
	0.5s		7.00nm		4.7mb	
WARB	39.40	245	iPd	41	52.20	1.4
	0.4s		4.00nm		4.5mb	
MBL	45.04	253	eP	42	38.00	1.4
NWAO	48.78	238	iPd	43	05.90	0.2
CHTO	73.75	294	eP	45	46.30	-7.5X
	1.7s		9.15nm		4.2mb	
SPA	76.76	180	iPc	46	19.90	9.7X
	0.4s		17.76nm		5.2mb	
LZH	76.77	312	eP	46	11.50	0.7
	1.5s		17.00nm		4.6mb	
GUN	88.00	299	PKP	47	08.80	-0.3
PKI	88.31	299	PKP	47	10.00	-0.5
	0.6s		7.00nm		4.9mb	
KKN	88.48	299	PKP	47	10.80	-0.4
	0.7s		9.00nm		4.9mb	
DMN	88.58	299	PKP	47	11.80	0.1
	0.8s		17.00nm		5.1mb	
GKN	89.08	299	PKP	47	13.00	-1.0
BCAO	147.10	257	iPKPc	54	03.50	4.1X
	0.2s		60.00nm			
			ic	54	29.00	

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

% JAN 06, 1991 18h 50m 44.10± 1.01s
38.889 N ± 8.3km 29.834 E ± 9.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

ALT	0.27	52	iPg	50	49.70	-0.2
			iSg	50	53.00	
KHL	0.61	203	iPg	50	56.60	0.0
			iSg	51	06.50	
DST	1.18	308	ePn	51	05.80	-0.3
IZI	1.47	349	ePn	51	10.00	-0.7
YLV	1.71	348	ePn	51	15.40	1.2

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

& JAN 06, 1991 21h 50m 52.88s
59.970 N 152.670 W
DEPTH = 98.8km

06d 21h

SOUTHERN ALASKA (2)
<AEIC>.

INE	0.22	295	eP	51	06.59	0.8
			eS	51	17.91	
OPT	0.43	222	eP	51	07.74	-0.5
			eS	51	19.42	
RED	0.45	354	iP	51	07.86	-0.7
			eS	51	20.59	
RSO	0.50	355	iP	51	08.37	-0.6
			iS	51	20.51	
RS2	0.50	355	iP	51	08.37	-0.6
			iS	51	20.54	
REF	0.52	358	iP	51	08.52	-0.6
			iS	51	20.93	
RDN	0.55	355	iP	51	08.69	-0.6
			iS	51	20.85	
HOM	0.61	121	eP	51	09.07	-0.5
			eS	51	22.02	
NCT	0.61	348	iP	51	08.99	-0.7
			eS	51	21.58	
RDT	0.62	12	iP	51	08.96	-0.8
			eS	51	21.66	
NNL	0.69	83	iP	51	10.60	0.2
XLV	0.71	137	eP	51	09.42	-1.1
			eS	51	22.79	
AUE	0.71	210	eP	51	09.61	-0.9
AUP	0.72	212	eP	51	09.93	-0.8
AUH	0.72	213	eP	51	09.78	-0.9
AUI	0.74	211	eP	51	09.92	-0.9
			eS	51	22.34	
PDB	0.79	257	iP	51	10.55	-0.7
			iS	51	24.03	
CNPM	0.85	121	iP	51	11.09	-0.9
			iS	51	25.51	
BRLK	0.92	102	eP	51	11.77	-0.9
CDD	1.16	206	eP	51	13.94	-1.4
			eS	51	31.35	
MCNL	1.16	228	iP	51	14.15	-1.1
			eS	51	30.19	
CKL	1.24	7	iP	51	15.76	-0.7
SPU	1.25	14	iP	51	15.81	-0.7
			eS	51	33.66	
BGL	1.31	6	iP	51	16.67	-0.5
SLKM	1.34	65	eP	51	16.29	-1.2
SYI	1.37	174	eP	51	16.68	-1.1
CGLM	1.38	13	iP	51	17.55	-0.5
NCG	1.46	10	eP	51	18.49	-0.6
SEW	1.62	84	eP	51	19.41	-1.5
SUA	1.77	31	iP	51	22.51	-0.6
			eS	51	45.55	
PMS	2.00	49	eP	51	24.93	-1.0
SKT	2.09	15	eP	51	26.04	-1.1
PWA	2.17	38	eP	51	27.28	-0.9
PLRM	2.38	45	eP	51	29.01	-1.9
KNIM	2.50	79	eP	51	29.83	-2.7
MTU	2.52	87	eP	51	31.16	-1.7
KNK	2.53	53	eP	51	30.80	-2.2
GHO	2.57	44	eP	51	31.71	-2.0
CUT	2.71	24	eP	51	34.10	-1.2
GLI	2.91	69	eP	51	36.24	-1.9
HUR	3.35	24	eP	51	43.56	-0.6
KLU	3.65	62	eP	51	45.56	-2.8
TRF	3.67	17	eP	51	47.69	-1.1
TOA	3.82	53	eP	51	48.73	-1.9
RND	3.90	26	eP	51	50.09	-1.7
MCK	4.17	23	eP	51	54.12	-1.3
BWN	4.48	18	eP	51	58.35	-1.3
HDA	5.19	29	eP	52	07.30	-2.3
CCB	5.21	24	eP	52	06.89	-2.9
BALM	5.21	74	eP	52	07.40	-2.6
MDM	5.41	20	eP	52	10.07	-2.6
YAH	5.47	81	eP	52	11.77	-1.9

52 obs. associated

• JAN 06, 1991 22h 13m 22.40± 0.98s
17.263 N ± 8.7km 73.896 E ±10.8km
DEPTH = 80.2 ± 17.2 km
4.4mb (3 obs.)

INDIA (314)

POO	1.26	358	iPg	13	45.20	0.1
			iSg	14	02.50	
BOM	1.92	328	iPnc	13	53.20	-0.6
			iSn	14	17.40	
HYB	4.45	87	ePn	14	30.00	1.0
			iPg	14	43.00	
			iSn	15	21.00	
			iSg	15	40.50	
GBA	4.99	136	P	15	05.00	28.6X
	0.2s		7.40nm			
KOD	7.80	153	ePn	15	15.20	-0.4
NDI	11.77	14	eP	16	08.50	-0.6
	0.5s		17.61nm		5.2mb X	
QUE	14.35	335	eP	16	44.30	1.2
GKN	14.57	41	P	16	45.00	-1.0
DMN	14.60	43	P	16	46.60	0.2
PKI	14.77	44	P	16	49.50	0.7
	0.6s		24.00nm		4.6mb	
KKN	14.83	43	P	16	48.64	-0.8
GUN	15.31	44	P	16	55.60	0.0
SHL	18.66	61	eP	17	45.00	8.0X
WRA	69.92	119	P	24	34.00	6.7X
	0.5s		2.10nm		4.3mb	
ASPA	71.32	123	eP	24	42.10	6.3X
	0.7s		3.90nm		4.4mb	

S.D. = 0.9 on 11 of 15 obs.

• JAN 06, 1991 22h 36m 47.94± 1.69s
36.872 N ±24.2km 71.541 E ± 9.1km
DEPTH = 33.0km (normal)
4.6mb (2 obs.)

AFGHANISTAN-USSR BORDER REGION (717)

QUE	7.69	211	eP	38	39.40	-1.2
			eS	40	01.80	
NDI	9.46	148	eP	39	07.00	2.1
			eS	40	47.00	
MAIO	9.71	270	ePn	39	09.00	0.6
			eSn	40	42.00	
GKN	14.15	125	P	40	08.20	0.0
	0.6s		48.00nm		5.3mb X	
KKN	14.71	124	P	40	14.84	-0.8
	0.5s		27.00nm		5.0mb X	
DMN	14.72	125	P	40	16.40	0.6
	0.4s		23.00nm		5.0mb X	
PKI	14.94	124	P	40	18.54	-0.3
	0.4s		13.00nm		4.6mb	
GUN	15.04	122	P	40	19.02	-1.0
	0.5s		16.00nm		4.6mb	

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

JAN 06, 1991 23h 42m 02.75± 0.50s
20.875 S ± 6.6km 178.523 W ± 8.9km
DEPTH = 540.3 ± 6.5 km
4.6mb (11 obs.)

FIJI ISLANDS REGION (181)

KRO	4.05	331	eP	43	24.50	-0.5
OVA	4.06	321	eP	43	25.00	-0.1
NDE	4.73	334	ePc	43	30.30	-0.3
NDF	4.91	309	ePd	43	32.20	0.3
DZM	14.05	262	iPd	45	04.80	2.1
PUZ	17.36	189	eP	45	35.40	0.3
WLZ	17.66	196	eP	45	39.40	1.4
NOZ	17.93	189	eP	45	40.40	-0.2
MNG	20.33	193	P	45	59.60	-3.7X
THZ	22.05	197	P	46	17.10	-2.0
ASPA	43.96	257	iPd	49	22.70	-1.0
	1.0s		33.90nm		4.8mb	
			iPcP	50	56.80	
			eS	55	12.60	
MTN	48.68	271	iPd	49	58.50	-1.3
	0.3s		34.00nm		5.3mb	
SYP	78.28	46	eP	53	09.00	0.7
PRS	78.43	44	ePd	53	09.30	0.5
GCC	78.44	43	ePd	53	09.00	0.1
BCH	78.60	45	P	53	10.20	0.3
PRI	78.77	44	eP	53	11.20	0.4
BKS	78.80	42	ePc	53	11.60	0.8
	0.9s		44.00nm		4.9mb	
MHC	78.86	43	ePd	53	11.60	0.4
PAS	79.30	47	eP	53	14.00	0.6
MWC	79.42	47	eP	53	15.00	0.7
PLM	79.76	48	eP	53	16.00	-0.1
SBB	79.84	47	eP	53	16.00	-0.3
PEC	79.85	48	P	53	16.00	-0.4
FRI	79.89	44	ePd	53	16.40	0.0
CMB	80.07	43	ePd	53	17.40	0.0
WDC	80.27	40	iPd	53	18.60	0.2
ORV	80.28	41	eP	53	18.20	-0.2
CLC	80.62	46	eP	53	20.00	-0.3
GSC	80.87	47	eP	53	22.00	0.3
GLA	81.04	50	eP	53	23.00	0.5
TNP	82.14	44	P	53	28.00	-0.2
	0.7s		9.78nm		4.4mb	
KLU	86.15	15	P	53	46.50	-0.7
TOA	86.62	15	P	53	49.00	-0.4
PNT	87.24	34	ePd	53	53.00	0.4
PV09	B7.78	47	P	53	55.50	-0.2
NEW	87.96	36	P	53	55.00	-1.0
	1.2s		10.23nm		4.5mb	
ALQ	88.02	51	eP	53	56.30	-0.5
	1.0s		6.00nm		4.4mb	
ANMO	88.02	51	P	53	56.50	-0.3
	1.0s		5.50nm		4.3mb	
FBA	88.71	13	P	53	57.70	-1.4
	0.7s		26.74nm		5.2mb	
LRM	89.31	40	eP	54	02.70	0.2
BW06	89.58	43	P	54	03.80	0.0
	0.6s		6.59nm		4.7mb	
CHTO	89.91	290	eP	54	06.90	1.4
	1.0s		7.25nm		4.6mb	
GOL	90.93	48	P	54	09.00	-1.2
	0.8s		3.42nm		4.4mb	
SES	92.46	36	eP	54	17.00	0.3
QUE	120.89	293	ePKP	59	54.70	-0.9
KAF	135.37	344	ePKP	00	22.00	0.0
NB2	139.29	353	PKP	00	19.40	-10.0X
	0.8s		3.70nm			
HFS	139.83	351	ePKP	00	21.00	-9.3X
	0.5s		2.90nm			
EKA	145.42	5	PKP	00	42.00	1.9
	1.3s		39.50nm			
KAS	145.92	314	iPKPd	00	43.50	2.0X
HRI	147.24	299	ePKP	00	47.00	3.1X
KRA	147.41	338	ePKP	00	46.10	2.6X
WIT	147.87	354	ePKP	00	48.00	3.9X
DSI	147.89	296	ePKP	00	48.00	3.2X
KSP	147.90	342	iPKPd	00	47.60	3.4X
	0.9s		27.00nm			
			e	00	51.50	
SPC	148.02	337	ePKP	00	47.80	3.1X
MLR	148.27	326	ePKPc	00	52.00	6.8X
CLL	148.31	346	iPKPd	00	48.80	4.0X
	1.0s		42.00nm			
			i	00	53.20	
BRG	148.49	345	iPKP	00	49.20	4.0X
	0.8s		20.00nm			
			i	00	54.60	
WTS	148.66	354	ePKP	00	49.50	4.2X
	0.9s		42.00nm			
RMN	148.72	295	ePKP	00	50.00	3.7X
PRU	149.15	343	PKP	00	50.60	4.4X
			e	00	57.60	
MOX	149.23	347	iPKP	00	51.00	4.7X
SRO	149.88	337	ePKP	00	51.80	4.5X
ENN	149.96	354	ePKP	00	52.50	5.2X
	0.9s		21.00nm			
ZST	149.98	339	ePKP	00	52.70	5.2X
KHC	150.19	344	PKPd	00	53.20	5.4X
	1.0s		8.50nm			
			e	01	02.30	
ABH	150.66	352	ePKP	00	53.95	5.4X
RZN	151.44	322	iPKPd	00	56.00	5.9X
VTS	151.69	325	iPKPc	00	58.00	7.6X
FLN	152.13	3	ePKP	00	56.50	5.9X
CDF	152.13	352	ePKP	00	56.80	6.0X
	0.7s		6.60nm			
LDF	152.31	2	ePKP	00	56.60	5.7X
GRR	152.49	3	ePKP	00	57.40	6.3X
SOTA	152.56	346	iPKPd	00	58.10	6.7X
	0.9s		10.60nm			
			i	01	11.70	
HAU	152.65	353	ePKP	00	57.80	6.4X
BSF	152.77	352	ePKP	00	57.90	6.2X
LPF	152.83	4	ePKP	00	58.20	6.6X
	1.1s		36.65nm			
LOR	153.60	356	ePKP	00	59.90	7.2X
	1.1s		9.75nm			
SSF	153.83	357	ePKP	01	00.40	7.4X
	1.1s		14.65nm			
LPG	155.06	351	ePKP	01	04.00	8.9X
	1.1s		9.75nm			
KIC	164.36	156	PKP	01	05.20	-0.6

S.D. = 0.8 on 48 of 83 obs.

• JAN 06, 1991 23h 56m 42.68± 1.29s
33.463 N ±10.6km 132.292 E ±11.0km
DEPTH = 64.0 ± 12.8 km
4.3mb (6 obs.)

SHIKOKU, JAPAN (236)

SHK	1.11	17	iPc	57 02.90	0.3
	0.2s	4222.22nm			
MAT	5.75	56	eP	58 07.00	-0.4
	0.8s	22.39nm		4.6mb	
			eS	59 27.00	
CHTO	33.14	252	e(P)	03 14.90	-0.1
	1.0s	0.75nm		3.5mb	
GUN	40.04	275	P	04 14.40	0.8
KKN	40.58	275	P	04 17.20	-0.7
GKN	41.04	276	P	04 15.40	-6.2X
WRA	53.14	178	P	05 56.00	-0.1
	0.7s	4.10nm		4.6mb	
ASPA	56.83	178	eP	06 23.10	0.2
	0.7s	26.60nm		5.4mb X	
MBC	61.97	15	eP	06 58.00	0.2
	0.8s	3.00nm		4.5mb	
			pP	07 11.50	48kmX
YKA	70.50	27	eP	08 07.00	14.9X
	0.8s	0.60nm			
HFS	74.05	333	eP	08 12.40	-0.6
	0.4s	1.10nm		4.1mb	
NB2	74.37	334	P	08 14.40	-0.6
	0.7s	2.10nm		4.2mb	
FRB	81.72	9	eP	08 56.00	1.0
S.D. = 0.7 on 11 of 13 obs.					

JAN 07, 1991 00h 39m 10.89± 0.64s
37.400 N ± 5.2km 22.010 E ± 7.9km
DEPTH = 10.0km (geophysicist)
SOUTHERN GREECE (368)
ML 3.0 (ATH).

ITM	0.23	197	eP	39 15.50	-0.3
VLI	1.01	132	eP	39 30.10	0.2
VLS	1.37	305	eP	39 36.00	0.0
ATH	1.47	67	eP	39 38.30	0.9
EVR	1.52	354	eP	39 39.20	1.0
AGG	1.64	9	eP	39 40.62	0.8
			eS	40 04.14	
IGT	2.50	329	eP	39 52.94	0.7
			eS	40 24.30	
LIT	2.72	8	eP	39 55.69	0.2
			eS	40 30.10	
PAIG	2.84	27	iP	39 55.69	-1.4
KEK	2.89	324	ePg	40 08.20	10.4X
KZN	2.91	356	eP	39 59.40	1.3
THE	3.31	13	eP	40 03.95	0.2
FNA	3.41	352	eP	40 05.46	0.2
			eS	40 46.70	
GRG	3.56	5	eP	40 07.50	0.1
SOH	3.57	17	eP	40 06.94	-0.6
KNT	3.82	10	eP	40 10.58	-0.4
SRS	3.91	18	iP	40 11.54	-0.7
			eS	40 58.80	
VAY	3.94	6	ePn	40 13.50	0.8
SKO	4.59	355	ePn	40 19.00	-2.9
S.D. = 1.1 on 18 of 19 obs.					

? JAN 07, 1991 01h 19m 55.29± 1.48s
8.830 S ±22.2km 109.137 W ±25.6km
DEPTH = 10.0km (geophysicist)
4.8mb (12 obs.) 4.6Msz (3 obs.)
NORTHERN EASTER I. CORDILLERA (694)
Ms 4.7 (BRK). Mo=2.0•10••17 Nm
(PPT).

ZOBO	40.65	105	eP	27 40.00	1.7
	1.0s	3.00nm		4.0mb	
	Z 21s	0.99um		4.6Msz	
			i	27 44.00	
			S	34 00.00	
			LR	39 04.00	
LPB	40.70	105	P	27 41.00	2.5
BAR	41.90	350	eP	27 48.00	0.4
PLM	42.59	350	eP	27 55.00	1.6
CCH	42.65	106	P	27 58.00	3.7X
PEC	43.16	350	P	27 59.00	1.0
ALQ	43.61	3	eP	28 02.00	0.3
	1.1s	6.01nm		4.3mb	
	Z 18s	0.91um		4.7Msz	
ANMO	43.61	3	eP	28 03.00	1.3
	1.2s	8.59nm		4.4mb	
SBB	44.05	350	eP	28 05.00	-0.2
GSC	44.48	351	eP	28 09.00	0.3
UYO	44.97	17	e(P)	28 13.00	0.5
BCH	44.98	347	P	28 13.00	0.2
PRI	46.03	347	ePd	28 21.80	0.8
TUL	46.24	15	eP	28 22.00	-0.6
	1.0s	19.60nm		5.1mb	
	Z 21s	0.57um		4.5Msz	
			i	28 31.00	
			LR	43 23.00	
LLA	46.55	347	eP	28 29.40	4.4X
PV09	47.08	0	P	28 29.80	0.3
OLY	47.14	20	P	28 29.80	0.1
TNP	47.27	351	P	28 30.50	-0.5
	0.8s	7.65nm		4.8mb	
SIV	47.39	104	P	28 31.50	-0.5
MHC	47.40	346	eP	28 36.10	4.2X
			eLR	42 06.00	
CMB	47.79	348	e(P)	28 33.30	-1.5
			eLQ	40 37.00	
GOL	48.41	4	P	28 40.00	0.1
	1.0s	9.00nm		4.8mb	
GLD	48.47	4	P	28 42.00	1.8
	1.0s	36.00nm		5.4mb	
DAU	49.03	358	P	28 44.90	0.2
RSCP	49.47	25	P	28 45.50	-2.3
FVM	49.74	19	P	28 50.00	0.1
BW06	51.36	360	P	29 01.50	-0.8
	1.2s	9.82nm		4.6mb	
BLA	53.12	29	P	29 14.00	-1.5
	1.1s	16.25nm		4.9mb	
LRM	54.48	357	eP	29 32.10	6.5X
PPD	56.96	110	e(P)	29 42.00	-1.7
NEW	57.28	354	P	29 45.00	-0.5
	1.3s	18.87nm		5.0mb	
PNT	58.62	352	eP	29 54.00	-0.8
SES	59.00	359	eP	30 02.00	4.5X
FFC	63.60	5	eP	30 25.00	-3.4X
	0.5s	4.00nm		4.9mb	
PDCR	68.73	100	eP	31 00.70	-1.2
FRB	78.63	17	eP	32 04.00	5.4X
INK	78.87	351	eP	31 58.00	-1.8
M8C	85.14	358	eP	32 33.00	0.7
	1.5s	36.00nm		5.4mb	
			pP	32 42.50	30kmX
KMI	145.60	302	ePKP	39 42.00	5.4X
MAIO	150.76	19	ePKP	39 53.00	8.8X
GUN	156.31	325	PKP	40 00.00	7.4X
S.D. = 1.2 on 31 of 41 obs.					

JAN 07, 1991 02h 32m 12.25± 0.27s
55.446 S ± 8.2km 1.689 W ± 7.3km
DEPTH = 10.0km (geophysicist)
5.6mb (13 obs.) 4.8Msz (2 obs.)
BOUVET ISLAND REGION (412)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 18S, 35C
Centroid Location:
Origin Time 02:32:19.1 0.4
Lat 55.30S 0.13 Lon 0.95W 0.12
Dep 15.0 FIX Half-duration 1.5
Moment Tensor; Scale 10••16 Nm
Mrr=-8.77 0.87 Mtt= 0.72 1.21
Mff= 8.04 0.54 Mrt= 0.82 2.02
Mrf= 6.32 2.68 Mtf=-1.56 0.81
Principal Axes:
T Val= 10.31 Plg=18 Azm=262
N 0.70 8 355
P -11.02 70 108
Best Double Couple:Mo=1.1•10••17
NP1:Strike=339 Dip=28 Slip=-108
NP2: 179 63 -81

CER	26.49	42	eP	37 48.00	-3.2X
FRS	32.09	48	ePc	39 00.60	19.2X
	1.0s	34.00nm			
SEK	34.32	50	iPc	39 01.50	0.5
	1.0s	30.00nm		5.2mb	
SPA	34.73	180	eP	39 05.00	0.8
	1.8s	342.59nm		5.9mb	
WIN	35.69	31	iPc	39 12.50	-0.3
	1.5s	80.00nm		5.4mb	
KSR	36.16	47	eP	39 24.50	7.8X
	1.0s	70.00nm		5.5mb	
SLR	36.86	49	iP	39 20.50	-2.0
	1.2s	90.00nm		5.4mb	
	Z 18s	9.49um		5.6Msz	
			i	39 33.50	
BFT	37.67	51	iPc	39 29.50	0.1
	1.0s	130.00nm		5.7mb	
BUL	41.97	45	eP	40 06.60	1.7
KRI	45.36	44	iPc	40 28.50	-3.9X
			ipP	40 39.00	36kmX
LSZ	46.21	42	iPd	40 38.90	-0.3
			i	40 49.20	
			i	41 35.70	
VAO	46.47	295	eP	40 42.60	1.5
			e	40 48.50	
KMZ	47.03	38	iPc	40 46.20	0.6
			i	40 56.00	
			i	42 40.60	
PPD	49.54	292	eP	41 05.50	0.5
MZZ	50.26	40	iPc	41 09.70	-1.0
			i	41 19.30	
			i	43 20.20	
PDCR	51.76	311	eP	41 20.80	-1.1
			e	41 26.60	
PEL	51.79	265	iPc	41 22.50	0.4
BAO	53.18	300	ePc	41 32.30	-0.4
SOB1	55.49	311	eP	41 50.80	1.3
LWI	58.50	36	iPc	42 11.30	0.2
SIV	59.73	287	P	42 19.10	-0.3
LEGH	60.89	2	eP	42 34.00	6.8X
SHGH	61.17	2	eP	42 31.50	2.4
KOGH	61.32	2	eP	42 30.50	0.3
LIC	61.51	356	P	42 30.78	-0.6
	1.4s	130.00nm		5.9mb	
	Z 20s	0.13um		4.1Msz	
KIC	61.64	357	P	42 31.26	-1.0
	1.5s	76.50nm		5.7mb	
TIC	61.93	356	P	42 33.34	-0.9
BCAO	61.97	23	iPd	42 34.20	-0.4
	0.7s	41.00nm		5.7mb	
			id	43 01.70	
NAI	62.35	45	iPc	42 41.40	4.0X
LPB	63.18	280	P	42 39.00	-4.1X
ZOBO	63.41	280	Pd	42 44.50	-0.3
	1.5s	99.46nm		5.8mb	
	Z 24s	1.49um		5.1MszX	
			S	51 24.00	
			LR	02 26.00	
ARE	65.15	277	eP	42 57.00	1.1
NNA	71.79	275	eP	43 32.00	-4.9X
	1.3s	32.69nm		5.3mb	
ADE	83.78	148	eP	44 43.20	0.5
	1.7s	115.38nm		5.8mb	
TIO	86.15	355	iP	44 56.00	1.6
			i	45 02.50	
AVE	88.52	355	eP	45 05.00	-0.6
IFR	88.65	357	iP	45 09.50	3.0X
ASPA	92.59	140	iPd	45 24.50	-0.6
	1.7s	64.70nm		5.8mb	
JVI	92.63	31	eP	45 27.00	2.2
SPC	105.87	15	ePKP	50 39.30	2.4X
OLY	118.25	292	e(PKP)	51 05.30	4.7X
FVM	119.59	295	e(PKP)	51 01.00	-2.1X
WMQ	124.23	61	PKP	51 11.50	-0.5
ALQ	126.01	281	ePKP	51 14.00	-1.9
ANMO	126.01	281	ePKP	51 14.50	-1.4
	1.2s	10.94nm			
LZH	127.27	79	ePKP	51 17.50	-0.7
	Z 30s	0.30um		4.8MszX	
GTA	127.42	73	iPKPc	51 18.00	-0.3
	Z 25s	0.70um		5.2MszX	
XAN	128.64	84	PKP	51 19.60	-1.1
GLD	128.77	286	e(PKP)	51 20.00	-0.9
GOL	128.82	286	ePKP	51 19.80	-1.3
	1.1s	7.37nm			
FRB	129.53	328	ePKP	51 21.00	-0.3
PV09	130.05	282	ePKP	51 22.50	-1.1
BAR	130.13	271	ePKP	51 23.00	-0.5
PLM	130.73	271	e(PKP)	51 24.50	-0.4
PEC	131.30	272	ePKP	51 25.70	0.0
PAS	132.06	271	ePKP	51 29.00	1.9
GSC	132.11	273	ePKP	51 28.00	0.7
SBB	132.25	272	ePKP	51 25.00	-2.6X
DAU	132.56	282	ePKP	51 28.50	0.2
CLC	132.93	273	ePKP	51 29.00	0.2
BW06	133.22	286	ePKP	51 27.30	-2.1
	1.5s	17.16nm			
ISA	133.32	272	ePKP	51 30.00	0.4
BCH	133.90	271	e(PKP)	51 38.50	7.8X
TNP	134.31	276	ePKP	51 32.00	0.4
	1.3s	12.76nm			
PRI	134.91	271	e(PKP)	51 32.40	-0.2
FRI	134.96	273	ePKPd	51 31.90	-0.6

07d 02h

LLA	135.40	271	ePKP	51	32.60	-0.8
PRS	135.44	271	e(PKP)	51	34.60	1.1
CMB	136.08	273	ePKP	51	36.20	1.5
FFC	136.76	304	ePKP	51	34.00	-1.4
	1.4s		23.00nm			
LRM	136.78	287	ePKP	51	36.00	-0.1
BJI	136.97	84	ePKP	51	33.50	-2.7X
	Z 23s		0.62um			5.3MszX
SES	138.79	294	ePKP	51	39.00	-0.4
WDC	139.03	274	ePKPd	51	37.90	-2.1X
PNT	142.75	287	ePKP	51	43.00	-3.4X
PGC	144.49	284	ePKP	51	48.00	-1.3
CN2	144.68	87	PKP	51	47.40	-2.4X
IIDJ	146.00	109	ePKP	51	52.60	0.2
MTMJ	146.76	107	ePKP	51	55.50	1.8
MAT	146.95	108	ePKP	51	54.00	0.1
	1.5s		63.89nm			
CHJJ	147.00	109	ePKP	51	55.20	1.3
MDJ	147.53	89	ePKP	51	56.00	1.5
MBC	149.46	335	ePKP	52	01.00	4.4X
	1.5s		117.00nm			
INK	154.71	320	ePKP	52	01.00	-3.3X
	S.D. = 1.1		on 64 of 84 obs.			

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* JAN 07, 1991 02h 38m 28.05± 2.13s
43.292 N ±14.9km 18.924 E ±10.5km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.3 (TTG).

PLE	0.35	84	ePg	38	35.20	0.0
			eSg	38	40.20	
BRY	0.48	216	iPgd	38	37.50	-0.3
			iSg	38	45.00	
NKY	0.48	173	ePg	38	37.30	-0.6
			eSg	38	44.50	
IVA	0.83	120	ePg	38	44.00	-0.1
			eSg	38	57.40	
TTG	0.90	164	ePg	38	44.50	-0.7
			eSg	38	57.30	
HCY	0.90	200	ePg	38	45.50	0.2
			eSg	39	00.00	
BDV	1.01	184	ePg	38	47.40	0.2
			eSg	39	03.20	
ULC	1.35	170	ePg	38	54.20	1.3
			eSg	39	14.90	
HVAR	1.81	267	e(Pn)	39	06.30	6.8X
			iSn	39	29.30	
	S.D. = 0.7		on 8 of 9 obs.			

% JAN 07, 1991 04h 16m 14.10± 0.54s
42.321 N ± 4.6km 13.408 E ± 6.6km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

AQU	0.03	353	Pc	16	15.10	-1.1
			iSg	16	18.00	
AZI	0.33	176	Pc	16	21.30	0.3
			eSg	16	26.00	
MNS	0.54	277	P	16	25.00	-0.1
			eSg	16	33.80	
SDI	0.69	154	P	16	27.00	-0.7
			eSg	16	38.00	
RMP	0.73	226	P	16	28.30	-0.2
			eSg	16	40.30	
ASS	0.93	324	P	16	32.00	0.1
			eSn	16	46.00	
DUI	1.02	130	P	16	34.00	0.5
			eSg	16	50.50	
ARV	1.23	344	P	16	36.50	-0.4
			eSn	16	55.10	
CRE	1.69	321	P	16	44.70	0.8
			eSn	17	06.00	
SFI	1.96	325	P	16	48.50	0.8
			eSn	17	13.00	
	S.D. = 0.7		on 10 of 10 obs.			

& JAN 07, 1991 04h 33m 12.12s
58.104 N 152.970 W
DEPTH = 58.4km
2.7mb (1 obs.)
KODIAK ISLAND REGION (13)
<AEIC>.

KDC	0.44	144	iP	33	22.74	-0.6
			eS	33	31.91	
SYI	0.59	31	iP	33	24.33	-0.7
			eS	33	34.40	
CDD	0.90	337	iP	33	28.46	-0.5
AUI	1.26	349	eP	33	32.86	-0.9
AUE	1.28	351	eP	33	33.37	-0.6
AUP	1.28	350	eP	33	33.40	-0.8
AUH	1.29	349	eP	33	33.41	-0.8
MCNL	1.30	327	iP	33	33.03	-1.3
			eS	33	48.36	
XLV	1.50	25	eP	33	36.67	-0.5
			eS	33	55.41	
OPT	1.56	355	iP	33	36.96	-1.0
			eS	33	56.26	
CNPM	1.69	32	eP	33	38.57	-1.2
			eS	33	58.91	
HOM	1.70	23	eP	33	39.03	-0.9
			eS	33	59.59	
PDB	1.80	340	iP	33	39.43	-1.9
			eS	34	00.75	
INE	1.96	359	eP	33	42.04	-1.7
BRLK	1.99	32	eP	33	42.12	-1.8
			eS	34	04.55	
NNL	2.13	23	eP	33	44.82	-1.0
RED	2.32	2	eP	33	46.64	-2.1
RSO	2.37	3	eP	33	47.44	-2.0
			eS	34	16.01	
RS2	2.37	3	eP	33	47.51	-2.0
REF	2.40	3	iP	33	47.79	-2.0
RDN	2.42	2	eP	33	48.16	-1.9
NCT	2.47	0	eP	33	48.74	-2.0
RDT	2.49	6	iP	33	48.92	-2.2
			eS	34	17.69	
SEW	2.71	41	eP	33	51.27	-2.7
NKA	2.79	18	eP	33	54.26	-1.0
SLKM	2.79	29	eP	33	52.62	-2.7
CKL	3.12	6	eP	33	57.37	-2.7
SPU	3.12	8	eP	33	57.33	-2.7
BGL	3.18	5	eP	33	58.30	-2.6
CGLM	3.25	8	eP	33	59.22	-2.7
SVW	3.30	337	eP	33	59.77	-2.8
MTU	3.33	53	eP	33	59.94	-3.0
NCG	3.34	7	eP	34	00.29	-2.8
KNIM	3.51	48	eP	34	01.88	-3.5
SUA	3.55	18	eP	34	03.19	-2.9
PMS	3.59	27	eP	34	03.81	-2.8
PWA	3.88	22	eP	34	08.13	-2.5
SKT	3.96	10	eP	34	08.65	-3.0
KNK	4.03	33	eP	34	09.03	-3.7
HIN	4.04	53	iP	34	09.82	-3.0
GLI	4.09	45	eP	34	09.65	-3.9
GHO	4.20	27	eP	34	11.70	-3.5
VZW	4.41	45	eP	34	14.49	-3.5
CVA	4.44	53	eP	34	14.94	-3.4
CUT	4.52	16	eP	34	17.57	-2.0
VLZ	4.54	45	eP	34	16.39	-3.3
SGAM	4.65	56	eP	34	18.30	-3.1
KAIM	4.78	64	eP	34	20.49	-2.8
RAGM	4.83	58	eP	34	20.82	-3.3
KLU	4.92	43	eP	34	22.22	-3.1
HMT	5.00	60	eP	34	23.05	-3.4
TZL	5.47	41	eP	34	30.56	-2.3
WAX	5.70	61	eP	34	32.24	-3.9
GLB	5.71	50	eP	34	32.82	-3.5
			eS	35	33.12	
TGL	5.82	59	eP	34	34.16	-3.8
WRG	5.97	66	eP	34	36.78	-3.1
BALM	6.15	57	eP	34	38.68	-3.8
YAH	6.19	64	eP	34	39.77	-3.5
CTGM	6.58	59	eP	34	45.06	-3.5
BCPM	7.13	69	eP	34	51.90	-4.2
PNL	7.21	72	eP	34	52.77	-4.4
HQN	7.45	74	eP	34	55.87	-4.7
YKA	19.30	61	eP	37	30.20	-4.5
	0.6s		0.30nm			2.7mb
	63 obs. associated					

% JAN 07, 1991 04h 47m 32.97± 0.78s
43.008 N ± 8.3km 0.649 W ± 7.1km
DEPTH = 10.0km (geophysicist)
PYRENEES (378)
MD 1.0 (STR).

ATE	0.09	333	Pg	47	35.86	0.3
			Sg	47	37.44	
ESCF	0.09	38	Pg	47	35.41	-0.2
			Sg	47	36.73	
LHE	0.16	168	Pg	47	35.82	0.1
ISSF	0.11	280	Pg	47	35.69	-0.2
			Sg	47	39.81	
JAU	0.21	82	Pg	47	37.62	0.0
	S.D. = 0.3		on 5 of 5 obs.			

JAN 07, 1991 05h 15m 15.35± 0.25s
40.687 N ± 2.7km 28.556 E ± 2.2km
DEPTH = 19.1 ± 2.8 km
TURKEY (366)
MD 4.0 (ISK), 3.9 (ATH).

ISK	0.54	45	iPg	15	25.70	-0.3
BNT	0.59	236	iPg	15	27.70	0.9
EDC	0.63	237	iPg	15	28.50	1.0
YLV	0.63	101	iPg	15	26.70	-1.0
GBZT	0.68	81	iPgc	16	29.10	60.7X
			iSg	16	38.20	
IZI	0.78	116	iPg	15	29.50	-0.7
HRT	0.86	81	iPg	15	30.70	-0.7
KGT	0.98	257	iPg	15	34.70	1.2
DST	1.08	177	iPn	15	36.00	0.7
DMK	1.28	332	iPn	15	38.00	-0.3
GPA	1.40	106	iPn	15	40.40	0.5
EZN	1.91	244	iPn	15	47.40	0.1
ALN	1.92	277	iP	15	47.38	0.0
			eS	16	12.00	
ALT	2.02	143	iPn	15	49.60	0.6
PRK	2.27	231	eP	15	53.30	0.8
JMB	2.31	321	eP	15	54.00	0.9
RDO	2.33	282	eP	15	53.60	0.3
KHL	2.48	162	iPn	15	55.40	-0.1
IZM	2.50	204	iPn	15	55.50	-0.2
KDZ	2.56	293	iP	15	57.00	0.4
DIM	2.65	302	iP	15	58.00	0.1
PSN	3.01	355	eP	16	02.00	-0.8
RZN	3.07	290	iP	16	04.00	0.1
CIN	3.10	187	eP	16	04.00	-0.3
PLD	3.23	297	eP	16	06.00	-0.1
BBTK	3.33	103	eP	16	08.00	0.4
			i	16	16.00	
			iS	16	43.00	
PVL	3.49	318	iP	16	10.00	0.3
OUR	3.50	266	eP	16	09.76	-0.2
BCK	3.59	153	iPn	16	10.70	-0.6
MMB	3.76	285	iP	16	14.00	0.4
PGB	3.78	301	iP	16	14.00	0.0
SRS	3.79	278	eP	16	13.30	-0.7
			eS	16	58.96	
PAIG	3.80	260	eP	16	14.12	-0.1
PLG	3.91	267	ePn	16	15.00	-0.7
TLB	3.92	355	eP	16	19.00	3.2X
SOH	3.95	274	iP	16	15.68	-0.7
ELL	4.07	165	iPn	16	19.00	0.8
THE	4.25	271	eP	16	20.24	-0.4
KNT	4.31	278	eP	16	21.00	-0.5
			eS	17	10.20	
VTS	4.44	297	eP	16	24.00	0.6
CFR	4.51	356	eP	16	26.50	2.3
KSL	4.63	170	eP	16	26.70	0.7
LIT	4.67	265	eP	16	25.12	-1.5
AGG	5.07	253	eP	16	32.00	-0.2
KZN	5.19	268	eP	16	33.10	-0.8
CMP	5.26	332	ePc	16	32.00	-2.8X
VRI	5.35	346	eP	16	40.00	3.9X
FNA	5.46	273	eP	16	36.76	-1.0
VLI	5.92	230	eP	16	43.30	-0.8
DEV	6.63	323	ePc	17	08.00	13.8X
BZS	7.07	316	ePc	17	01.00	0.7
BMR	7.87	334	ePd	17	15.00	3.5X
ZST	11.10	316	eP	18	15.00	19.0X
	S.D. = 0.8		on 46 of 53 obs.			

% JAN 07, 1991 05h 22m 30.60± 0.62s
40.720 N ± 6.9km 28.618 E ± 4.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

YLV	0.59	105	iPg	22	42.20	-0.5
			eSg	22	51.20	
BNT	0.64	236	iPg	22	43.20	-0.3
			iSg	22	52.20	
EDC	0.69	237	ePg	22	43.50	-0.7
IZI	0.76	120	iPg	22	45.50	0.1
			iSg	22	56.70	
HRT	0.80	82	iPg	22	46.70	0.5
			eSg	22	57.60	
KGT	1.04	255	iPg	22	51.20	1.0

```
                    iSg    23 05.20
DST      1.11 180 ePn     22 51.70    0.2
DMK      1.28 330 ePn     22 54.00   -0.3
     S.D. = 0.7   on    8 of    8 obs.
-------------------------------------------
%  JAN  07, 1991  05h 26m 03.25± 2.83s
   40.829 N ±26.8km    28.637 E ± 6.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 2.6 (ISK).

YLV      0.62 115 iPg     26 15.70   -0.1
                 eSg     26 26.20
BNT      0.72 229 iPg     26 17.60    0.1
                 eSg     26 27.20
EDC      0.76 231 ePg     26 18.00   -0.1
IZI      0.80 127 ePg     26 19.00    0.1
DST      1.22 180 ePn     26 26.00    0.0
     S.D. = 0.1   on    5 of    5 obs.
-------------------------------------------
%  JAN  07, 1991  05h 33m 07.85± 1.20s
   40.766 N ±14.2km    28.639 E ± 5.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 2.5 (ISK).

YLV      0.59 109 iPg     33 19.70   -0.2
                 eSg     33 27.20
BNT      0.68 233 iPg     33 21.20   -0.2
                 iSg     33 30.50
EDC      0.72 235 iPg     33 21.50   -0.6
IZI      0.77 124 ePg     33 22.00   -0.9
HRT      0.78  86 iPg     33 23.70    0.6
KGT      1.06 253 iPg     33 28.20    0.3
                 iSg     33 42.20
DST      1.16 180 ePn     33 30.50    1.0
     S.D. = 0.8   on    7 of    7 obs.
-------------------------------------------
&  JAN  07, 1991  05h 35m 47.87s
   63.006 N          150.482 W
   DEPTH =  12.0km
 CENTRAL ALASKA                      (  1)
      <AEIC>. ML 3.3 (PMR).

HUR      0.39  94 iP      35 55.69   -0.2
                 eS      36 01.21
TRF      0.46  11 iP      35 56.50   -0.8
CUT      0.61 171 iP      36 00.14    0.2
RND      0.84  61 iP      36 03.37   -0.6
                 eS      36 14.89
MCK      1.01  43 eP      36 07.16    0.4
SKT      1.14 206 eP      36 08.86   -0.2
                 eS      36 26.03
BWN      1.26  21 eP      36 11.56    0.5
PWA      1.39 168 iPd     36 13.20    0.2
GHO      1.44 149 iP      36 13.77    0.0
                 iS      36 33.03
PLRM     1.55 155 eP      36 15.69    0.4
                 eS      36 36.36
PMR      1.55 155 iP      36 15.80    0.5
                 iS      36 36.90
SUA      1.55 185 eP      36 16.07    0.6
NEA      1.70  21 eP      36 17.34   -0.1
NCG      1.79 207 eP      36 19.10    0.2
                 eS      36 43.64
PMS      1.82 166 iPd     36 20.00    0.7
CGLM     1.85 203 eP      36 20.18    0.5
KNK      1.86 148 eP      36 20.64    0.8
BGL      1.97 208 eP      36 22.12    0.7
SPU      1.97 203 eP      36 21.68    0.2
CKL      2.02 206 eP      36 22.73    0.6
CCB      2.03  35 eP      36 21.62   -0.6
HDA      2.11  47 eP      36 23.44    0.1
TOA      2.19 112 eP      36 27.30    2.6
MDM      2.20  26 eP      36 24.09   -0.6
                 eS      36 55.51
DDM      2.22  67 eP      36 26.89    1.8
FBA      2.24  31 iPc     36 24.80   -0.5
PAX      2.29  89 eP      36 26.14    0.0
                 eS      36 57.20
NKA      2.30 189 eP      36 28.56    2.4
SDG      2.32 100 eP      36 26.77    0.3
SLKM     2.51 177 eP      36 30.33    1.2
TTA      2.53 271 ePd     36 28.80   -0.6
TZL      2.54 110 eP      36 30.70    1.2
RDT      2.61 201 eP      36 31.18    0.6
KLU      2.62 123 eP      36 31.46    0.7
GLI      2.67 142 eP      36 30.43   -1.0
VZW      2.69 135 eP      36 32.89    1.1
VLZ      2.71 132 eP      36 32.60    0.6
NCT      2.71 206 eP      36 32.84    0.7
RDN      2.73 204 eP      36 32.56    0.2
REF      2.74 204 eP      36 31.66   -0.9
RS2      2.77 204 eP      36 34.47    1.4
RSO      2.77 204 eP      36 33.59    0.5
KNIM     2.97 153 eP      36 35.64    0.0
SVW      3.08 234 eP      36 37.50    0.3
INE      3.20 204 eP      36 40.49    1.4
LTI      3.23 156 eP      36 39.54    0.2
IMA      3.37 337 ePc     36 41.20   -0.3
GLB      3.50 114 eP      36 44.28    1.1
CNPM     3.51 186 eP      36 43.50    0.2
PDB      3.69 211 eP      36 46.62    0.7
BALM     4.31 114 eP      36 56.05    1.2
        51 obs. associated
-------------------------------------------
%  JAN  07, 1991  05h 46m 25.80± 1.80s
   40.745 N ±19.7km    28.621 E ± 6.5km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 2.5 (ISK).

YLV      0.60 107 iPg     46 37.70   -0.3
                 iSg     46 46.20
BNT      0.66 234 iPg     46 38.00   -1.0
                 eSg     46 48.00
IZI      0.77 122 ePg     46 41.00    0.2
KGT      1.04 254 iPg     46 46.20    0.7
                 iSg     47 00.20
DST      1.14 180 ePn     46 47.50    0.4
     S.D. = 0.9   on    5 of    5 obs.
-------------------------------------------
%  JAN  07, 1991  05h 49m 03.95± 0.96s
   40.665 N ±12.0km    28.669 E ± 5.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 2.5 (ISK).

YLV      0.54 100 iPg     49 14.60   -0.4
                 iSg     49 23.10
BNT      0.65 242 iPg     49 16.60   -0.3
                 iSg     49 26.10
IZI      0.70 118 iPg     49 18.10    0.3
                 iSg     49 28.10
HRT      0.78  78 iPg     49 19.20    0.1
DST      1.06 182 ePg     49 24.00    0.1
KGT      1.06 259 iPg     49 24.20    0.3
                 iSg     49 38.70
     S.D. = 0.4   on    6 of    6 obs.
-------------------------------------------
%  JAN  07, 1991  05h 50m 03.68± 0.42s
   40.756 N ± 4.4km    28.613 E ± 3.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 3.1 (ISK).

ISK      0.46  47 ePg     50 12.70   -0.3
                 iSg     50 19.20
YLV      0.61 108 iPg     50 15.60   -0.4
BNT      0.66 233 iPg     50 17.00    0.1
                 eSg     50 27.00
EDC      0.70 235 iPg     50 17.50    0.0
IZI      0.78 122 iPg     50 19.00    0.1
HRT      0.80  85 iPg     50 19.20   -0.1
                 iSg     50 30.20
KGT      1.04 253 iPg     50 23.70    0.4
                 iSg     50 37.70
DST      1.15 179 iPn     50 25.00   -0.2
DMK      1.24 329 iPn     50 27.00    0.2
GPA      1.38 109 iPn     50 29.90    1.0
EZN      1.98 243 iPn     50 36.90   -0.7
ALT      2.05 145 iPn     50 38.40   -0.3
KHL      2.53 164 ePn     50 45.90    0.4
     S.D. = 0.5   on   13 of   13 obs.
-------------------------------------------
%  JAN  07, 1991  05h 54m 08.85± 0.63s
   40.777 N ± 6.8km    28.639 E ± 4.5km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 2.8 (ISK).

YLV      0.60 110 iPg     54 21.00    0.0
                 iSg     54 28.00
BNT      0.69 233 iPg     54 22.00   -0.5
                 iSg     54 32.00
EDC      0.73 234 ePg     54 22.50   -0.7
IZI      0.77 124 iPg     54 24.20    0.2
                 iSg     54 34.10
HRT      0.78  86 ePg     54 23.70   -0.4
                 eSg     54 34.70
KGT      1.07 253 iPg     54 29.70    0.8
                 iSg     54 43.70
DST      1.17 180 iPn     54 31.20    0.5
DMK      1.24 328 iPn     54 32.00    0.2
ALT      2.06 146 ePn     54 47.20    3.2X
     S.D. = 0.6   on    8 of    9 obs.
-------------------------------------------
%  JAN  07, 1991  05h 55m 42.49± 0.76s
   40.707 N ± 9.6km    28.635 E ± 5.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 2.6 (ISK).

ISK      0.48  42 iPg     55 52.20   -0.1
YLV      0.58 104 iPg     55 54.00   -0.3
                 iSg     56 01.00
BNT      0.65 238 iPg     55 55.60    0.1
                 iSg     56 05.60
EDC      0.69 239 ePg     55 56.00   -0.1
IZI      0.74 120 iPg     55 57.10    0.1
                 iSg     56 07.10
HRT      0.79  81 iPg     55 58.20    0.3
                 iSg     56 08.20
     S.D. = 0.3   on    6 of    6 obs.
-------------------------------------------
%  JAN  07, 1991  06h 20m 15.77± 1.74s
   40.738 N ±19.1km    28.645 E ± 6.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 2.4 (ISK).

YLV      0.58 107 iPg     20 27.00   -0.6
                 iSg     20 36.00
BNT      0.67 236 iPg     20 28.60   -0.5
IZI      0.75 122 iPg     20 31.10    0.6
KGT      1.06 255 iPn     20 36.20    0.4
DST      1.13 181 ePn     20 37.00    0.0
     S.D. = 0.8   on    5 of    5 obs.
-------------------------------------------
?  JAN  07, 1991  06h 22m 20.13± 4.91s
   39.678 N ±38.1km    27.958 E ±16.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 2.8 (ISK).

DST      0.52  98 iPg     22 25.30   -5.4X
                 iSg     22 32.00
EDC      0.67 354 ePg     22 33.50    0.0
BNT      0.68 358 iPg     22 33.60    0.0
                 eSg     22 44.60
KGT      0.92 327 iPn     22 37.70    0.0
IZI      1.34  60 ePn     22 45.00    0.2
YLV      1.40  50 ePn     22 45.60   -0.2
     S.D. = 0.2   on    5 of    6 obs.
-------------------------------------------
%  JAN  07, 1991  06h 27m 01.76± 1.42s
   40.680 N ±14.6km    28.645 E ± 7.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 2.5 (ISK).

YLV      0.57 101 iPg     27 13.20   -0.1
                 eSg     27 21.00
BNT      0.64 240 iPg     27 14.60    0.0
                 iSg     27 24.60
IZI      0.72 118 iPg     27 16.00    0.0
                 eSg     27 26.00
HRT      0.79  79 iPg     27 17.20    0.0
DST      1.07 181 iPn     27 22.00    0.0
     S.D. = 0.1   on    5 of    5 obs.
-------------------------------------------
?  JAN  07, 1991  06h 55m 33.19± 0.70s
   55.357 S ±16.3km     1.409 W ±17.3km
   DEPTH =  10.0km  (geophysicist)
   5.3mb (  6 obs.)
 BOUVET ISLAND REGION                (412)

SPA     34.82 180 iPd    02 27.40    1.5
        0.8s     25.00nm            5.1mb
KRI     45.18  44 eP     03 49.50   -2.5
PPD     49.65 291 e(P)   04 29.00    2.2
```

07d 07h

LWI	58.33	36	iPd	05	32.40	1.6
SIV	59.86	286	Pc	05	40.80	-0.4
LIC	61.43	356	P	05	52.46	0.6
	0.9s	41.00nm			5.6mb	
KIC	61.56	356	P	05	52.98	0.3
	1.0s	18.00nm			5.2mb	
BCAO	61.82	23	iPc	05	55.40	0.9
	0.9s	32.00nm			5.5mb	
		id		06	02.50	
		id		06	44.90	
TIC	61.85	356	P	05	55.08	0.4
	1.0s	24.00nm			5.3mb	
LPB	63.33	280	P	06	03.60	-1.4
ZOBO	63.55	280	Pd	06	06.00	-0.7
	1.1s	23.78nm			5.3mb	
	Z 24s	0.46um			4.6MszX	
		S		15	00.00	
		LR		26	16.00	
ALQ	126.15	281	ePKP	14	36.00	-1.1
	1.1s	4.11nm				
ANMO	126.15	281	ePKP	14	36.00	-1.1
FRB	129.54	328	ePKP	14	43.00	0.7
MSU	131.90	280	ePKP	14	48.50	0.5
FRI	135.12	272	ePKP	14	54.20	0.5
		e		15	01.40	
CMB	136.23	273	ePKP	14	58.20	2.3X
		e		15	06.30	
SES	138.90	294	ePKP	15	03.00	2.5X
WDC	139.18	274	ePKPc	14	59.30	-2.0
		e		15	07.20	
MBC	149.44	335	ePKP	15	22.00	4.5X
	1.0s	26.00nm				
INK	154.75	320	ePKP	15	34.00	8.7X
	S.D. = 1.4	on	17 of	21	obs.	

? JAN 07, 1991 07h 38m 18.70± 4.63s
31.486 S ±30.1km 177.529 E ±58.8km
DEPTH = 33.0km (normal)
4.2mb (1 obs.)
NORTH OF NEW ZEALAND (176)

PUZ	6.60	175	eP	39	56.30	0.4
			eS	41	08.10	
PGZ	9.17	186	eP	40	32.30	0.6
MNG	9.26	190	eP	40	31.10	-1.9
			eS	42	15.10	
KIW	9.59	192	eP	40	39.30	1.7
MTW	9.79	189	eP	40	38.80	-1.5
WDW	9.97	191	eP	40	42.00	-0.8
MRW	9.99	192	P	40	44.00	1.1
			S	42	34.00	
TCW	10.05	194	eP	40	44.50	0.6
KHZ	11.37	195	eP	41	01.40	-0.3
			eS	43	09.40	
WRA	40.34	276	P	45	55.00	0.0
	0.7s	3.50nm			4.2mb	
	S.D. = 1.3	on	10 of	10	obs.	

& JAN 07, 1991 07h 49m 01.03s
60.609 N 151.739 W
DEPTH = 71.3km
KENAI PENINSULA, ALASKA (14)
<AEIC>.

NKA	0.28	61	iP	49	13.77	1.4
RDT	0.33	264	eP	49	12.12	-0.7
REF	0.49	256	iP	49	13.72	-0.6
RDN	0.51	260	iP	49	13.70	-0.7
			eS	49	23.35	
RSO	0.52	254	iP	49	14.01	-0.6
RS2	0.52	254	iP	49	14.05	-0.6
RED	0.55	250	iP	49	13.98	-0.7
			eS	49	24.74	
NCT	0.59	266	iP	49	14.33	-0.8
			eS	49	24.74	
SPU	0.60	345	iP	49	14.51	-0.6
			eS	49	25.65	
NNL	0.61	159	iP	49	15.82	0.6
CKL	0.66	334	iP	49	15.30	-0.6
CGLM	0.71	350	iP	49	15.92	-0.6
			eS	49	28.32	
BGL	0.73	334	iP	49	16.18	-0.5
			eS	49	29.04	
SLKM	0.76	97	iP	49	16.28	-0.6
			eS	49	28.99	
NCG	0.82	346	iP	49	17.26	-0.5
			eS	49	30.23	
INE	0.86	231	iP	49	17.20	-1.1
			iS	49	29.91	
BRLK	0.95	153	iP	49	18.54	-0.7
			eS	49	32.97	
HOM	0.96	177	eP	49	19.02	-0.2
			eS	49	34.18	
SUA	0.99	29	iP	49	19.37	-0.4
			eS	49	34.21	
CNPM	1.12	167	iP	49	20.69	-0.7
			eS	49	36.23	
XLV	1.16	180	eP	49	21.12	-0.8
OPT	1.22	219	eP	49	22.08	-0.6
			eS	49	37.89	
PMS	1.24	58	eP	49	22.37	-0.6
SEW	1.25	113	eP	49	22.07	-0.9
			eS	49	38.43	
SKT	1.38	4	iP	49	24.05	-0.8
			eS	49	42.19	
PWA	1.38	40	eP	49	24.31	-0.5
PDB	1.48	237	eP	49	24.45	-1.7
AUE	1.50	214	eP	49	24.96	-1.4
AUP	1.51	215	eP	49	25.59	-1.1
AUH	1.51	215	eP	49	25.18	-0.5
AUI	1.53	214	eP	49	25.61	-0.3
PLRM	1.61	51	eP	49	25.48	-1.4
KNK	1.79	62	iP	49	29.09	-1.3
GHO	1.79	48	eP	49	29.21	-1.3
CUT	1.94	21	eP	49	31.29	-1.1
MCNL	1.94	224	eP	49	30.93	-1.5
CDD	1.94	211	eP	49	31.18	-1.3
SVW	1.97	286	eP	49	30.43	-2.4
			eS	49	51.55	
KNIM	2.00	96	eP	49	30.36	-2.9
LTI	2.02	105	eP	49	30.92	-2.6
SYI	2.03	190	eP	49	32.68	-1.0
MTU	2.13	105	eP	49	32.93	-2.1
GLI	2.30	81	eP	49	34.26	-3.1
VZW	2.58	78	eP	49	38.76	-2.6
VLZ	2.70	76	eP	49	40.44	-2.5
TRF	2.93	13	eP	49	45.88	-0.6
KLU	2.97	70	iP	49	44.34	-2.4
TOA	3.07	58	eP	49	46.78	-1.5
RND	3.12	25	eP	49	48.82	-0.1
TZL	3.37	62	eP	49	49.96	-2.4
SDG	3.53	54	eP	49	53.27	-1.4
PAX	3.80	49	eP	49	56.58	-1.9
GLB	3.95	74	eP	49	57.35	-3.1
	53 obs. associated					

JAN 07, 1991 08h 04m 39.37± 0.68s
41.041 N ± 5.6km 22.408 E ± 5.5km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.3 (SKO).

GRG	0.08	184	iP	04	41.98	0.0
VAY	0.31	24	iPg	04	45.70	0.0
			iSg	04	50.30	
KNT	0.39	72	iP	04	47.74	0.4
			eS	04	53.53	
THE	0.59	134	iP	04	51.17	-0.1
			eS	04	59.01	
SOH	0.75	107	eP	04	53.33	-0.7
FNA	0.82	252	eP	04	55.17	-0.2
			eS	05	05.93	
SRS	0.90	85	iP	04	56.74	0.1
			iS	05	09.85	
LIT	0.94	176	eP	04	57.74	0.4
	S.D. = 0.4	on	8 of	8	obs.	

JAN 07, 1991 08h 51m 54.13± 0.55s
41.088 N ± 5.3km 22.378 E ± 4.1km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.3 (SKO).

GRG	0.13	172	iP	51	57.61	0.3
			eS	51	59.16	
VAY	0.27	32	ePg	51	59.80	-0.1
			iSg	52	04.00	
KNT	0.40	79	eP	52	02.41	0.1
			eS	52	08.28	
THE	0.64	135	iP	52	06.38	-0.5
			eS	52	14.84	
SOH	0.79	109	eP	52	09.24	-0.2
			eS	52	19.76	
FNA	0.82	249	iP	52	09.92	-0.1
			eS	52	20.80	
SRS	0.92	88	iP	52	11.61	-0.1
			eS	52	24.36	
LIT	0.99	175	iP	52	12.40	-0.5
			eS	52	26.12	
OHR	1.19	272	ePg	52	16.50	0.1
			eSg	52	33.50	
PAIG	1.53	139	eP	52	22.52	1.1
			eS	52	44.44	
	S.D. = 0.5	on	10 of	10	obs.	

? JAN 07, 1991 09h 15m 43.51±11.33s
17.132 N ±69.5km 62.116 W ±42.8km
DEPTH = 10.0km (geophysicist)
LEEWARD ISLANDS (92)
ML 2.7 (FDF).

SEG	0.93	141	eP	16	02.00	0.7
			S	16	14.20	
PAG	1.17	159	eP	16	05.40	-0.1
			S	16	20.10	
DOG	1.19	156	eP	16	05.40	-0.4
DEG	1.30	129	eP	16	07.20	-0.4
			S	16	25.00	
BBL	1.71	159	eP	16	13.70	0.1
	S.D. = 0.7	on	5 of	5	obs.	

% JAN 07, 1991 09h 24m 22.37± 1.95s
40.742 N ±18.7km 28.615 E ± 6.3km
DEPTH = 14.5km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

KCT	0.53	202	ePg	24	32.50	-0.4
			eSg	24	39.50	
YLV	0.60	107	iPg	24	34.00	-0.2
			iSg	24	42.50	
BNT	0.65	234	iPg	24	34.90	-0.1
			iSg	24	44.50	
EDC	0.70	236	ePg	24	36.00	0.3
IZI	0.77	121	iPg	24	37.20	0.2
			iSg	24	46.70	
DST	1.14	179	iPn	24	43.50	0.3
	S.D. = 0.4	on	6 of	6	obs.	

? JAN 07, 1991 09h 37m 43.47±10.23s
44.345 N ±40.8km 7.819 E ±71.5km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.4 (LDG).

SBF	0.56	210	Pg	37	54.80	0.0
			Sg	38	01.00	
FRF	1.15	228	Pg	38	05.00	0.0
			Sg	38	18.00	
LRG	1.38	230	Pg	38	08.80	0.1
			Sg	38	25.20	
LMR	1.39	224	Pg	38	08.70	-0.1
			Sg	38	24.60	
CDR	1.62	246	eP	38	12.20	0.0
			e	38	31.00	
	S.D. = 0.1	on	5 of	5	obs.	

? JAN 07, 1991 09h 45m 28.75± 4.68s
4.951 N ±47.7km 76.210 W ±32.2km
DEPTH = 100.0km (geophysicist)
COLOMBIA (103)
MD 3.1 (UVC).

HOBC	0.60	173	iPd	45	45.55	-0.1
			eS	45	57.70	
BUGC	1.05	183	ePc	45	50.49	0.3
CLMC	1.12	198	ePc	45	51.20	0.2
			eS	46	07.60	
HOQC	1.53	196	ePc	45	56.02	-0.1
			eS	46	16.10	
ANCC	1.57	205	eP	45	55.96	-0.3
			eS	46	16.00	
DIAC	1.65	180	eP	45	57.11	-0.3
			eS	46	17.90	
SALC	2.02	194	eP	46	02.59	0.3
			eS	46	27.50	
	S.D. = 0.3	on	7 of	7	obs.	

JAN 07, 1991 10h 50m 36.13± 0.84s
0.171 S ± 4.8km 122.818 E ± 8.2km
DEPTH = 168.5 ± 9.1 km

5.0mb (17 obs.)
MINAHASSA PENINSULA (265)

TSM	6.45	313	ePd	52	11.00	1.2
DAV	7.72	21	eP	52	27.00	0.3
KKM	9.03	313	eP	52	43.00	-1.2
	0.8s	50.00nm			5.1mb	
PPR	10.69	338	iPd	53	01.00	-4.8X
MTN	15.05	147	eP	54	02.40	0.8
	0.3s	38.00nm			5.2mb	
KNA	16.56	159	eP	54	21.00	0.9
BAG	16.62	352	eP	54	19.00	-2.1
CVP	17.79	357	iPd	54	34.00	-0.6
MBL	21.06	188	eP	55	08.30	0.0
	0.4s	15.00nm			4.8mb	
IPM	22.28	283	ePd	55	24.00	3.8X
	0.7s	24.60nm			4.8mb	
QIZ	22.94	327	eP	55	26.90	0.3
SNG	23.32	289	eP	55	34.20	4.0X
ASPA	25.72	156	iPc	55	52.00	-0.7
	0.6s	64.90nm			5.4mb	
Z	21s	0.80um			4.2Msz	
		iPP		56	25.30	
		eS		00	13.00	
		iScP		02	42.10	
		iScS		06	28.40	
QIS	26.08	142	iPc	55	55.40	-0.6
	0.4s	24.00nm			5.2mb	
WARB	26.12	172	iPd	55	56.50	0.1
	0.4s	6.00nm			4.6mb	
MEKA	26.61	189	iPd	56	00.30	-0.5
	0.3s	21.00nm			5.3mb	
CHG	30.09	310	iPd	56	32.80	0.8
	1.0s	15.00nm			4.7mb	
CHTO	30.09	310	iP	56	32.40	0.4
	0.6s	8.42nm			4.6mb	
GYA	30.71	331	P	56	37.40	-0.1
BAL	30.82	190	eP	56	37.10	-1.1
FORR	30.92	171	iPc	56	38.10	-0.9
	0.4s	24.00nm			5.3mb	
WHN	31.59	346	eP	56	48.00	3.1X
KLB	31.62	188	eP	56	44.20	-0.9
	0.4s	11.00nm			4.9mb	
MUN	32.25	191	eP	56	50.00	-0.6
NWAO	33.00	189	eP	56	56.40	-0.8
CD2	35.82	331	eP	57	20.60	-0.6
XAN	36.44	340	P	57	26.50	0.1
ADE	37.67	158	e(P)	57	35.00	-1.7
TIY	38.90	347	eP	57	47.50	0.6
SHL	39.33	313	eP	57	51.00	0.2
BRS	39.49	136	iP	57	52.70	0.8
BFD	41.09	156	iPd	58	06.80	2.0
TOO	42.70	153	eP	58	19.00	1.0
GTA	44.66	334	Pc	58	34.10	0.2
	1.0s	10.00nm			4.3mb	
GUN	45.09	311	P	58	38.40	0.7
	0.5s	44.00nm			5.3mb	
PKI	45.27	311	P	58	39.38	0.3
	0.6s	11.00nm			4.6mb	
KKN	45.48	311	P	58	41.22	0.6
DMN	45.52	310	P	58	41.72	0.7
	0.6s	17.00nm			4.8mb	
GKN	46.08	311	P	58	45.76	0.5
	0.5s	28.00nm			5.1mb	
DZM	47.74	120	iPd	58	59.10	0.9
WMQ	53.84	329	eP	59	44.00	0.1
		pP		00	21.00	161mX
NAI	86.01	269	iPd	03	06.00	6.3X
INK	95.20	21	eP	03	39.00	-2.2
ALQ	122.53	48	ePKP	09	13.00	-0.7
KIC	127.31	278	PKP	09	22.70	-0.6
	0.6s	3.00nm				
TIC	127.57	278	PKP	09	23.20	-0.6
LIC	127.61	278	PKP	09	23.40	-0.5
LPB	160.22	148	PKP	10	19.00	1.4
ZOBO	160.42	147	PKP	10	19.80	1.8

S.D. = 1.0 on 44 of 49 obs.

? JAN 07, 1991 11h 07m 40.48± 8.99s
4.604 N ±61.8km 76.869 W ±47.4km
DEPTH = 33.0km (normal)
COLOMBIA (103)
MD 2.4 (UVC).

HOBC	0.77	109	eP	07	55.06	0.0
			eS	08	06.30	
CLMC	0.78	157	iPc	07	56.62	1.4
BUGC	0.93	139	eP	07	57.50	0.1
ANCC	1.08	180	eP	07	59.40	0.0
			eS	08	14.10	
HOOC	1.15	168	eP	08	00.19	-0.4
			eS	08	15.20	
DIAC	1.47	153	eP	08	03.78	-1.3
			eS	08	21.70	

S.D. = 1.1 on 6 of 6 obs.

• JAN 07, 1991 11h 19m 19.42± 3.49s
7.523 S ±13.9km 127.668 E ±18.0km
DEPTH = 104.6 ± 39.5 km
5.0mb (7 obs.)
BANDA SEA (280)

MTN	6.29	147	eP	20	52.00	0.7
KNA	8.25	173	iPd	21	09.70	-8.3X
	0.4s	275.00nm			6.3mb X	
			eS	22	44.00	
MBL	15.53	208	eP	22	56.40	2.6X
	0.3s	6.00nm			4.3mb	
			eS	25	40.00	
ASPA	17.13	160	iPc	23	12.10	-1.7
	0.5s	928.60nm			6.3mb X	
			eS	26	03.80	
QIS	17.36	139	eP	23	15.00	-1.6
			eS	26	15.00	
WARB	18.58	183	iPd	23	32.20	0.9
	0.4s	35.00nm			5.0mb	
			eS	26	52.00	
PMG	19.36	97	eP	23	41.00	1.5
MEKA	20.88	204	eP	23	56.00	1.0
FORR	23.21	179	iPc	24	18.20	0.3
	0.4s	41.00nm			5.1mb	
CHTO	38.56	313	eP	26	36.00	2.2
	1.0s	2.75nm			4.1mb X	
GUN	53.58	313	P	28	31.44	-1.0
	0.5s	18.00nm			5.3mb	
PKI	53.73	312	P	28	32.68	-0.8
	0.5s	6.00nm			4.9mb	
KKN	53.95	312	P	28	34.42	-0.6
	0.5s	6.00nm			4.9mb	
DMN	53.98	312	P	28	35.06	-0.2
GKN	54.54	312	P	28	38.66	-0.6
	0.3s	12.00nm			5.4mb	
LPB	151.46	147	PKP	39	03.00	5.4X
ZOBO	151.66	147	PKP	39	13.00	14.9X

S.D. = 1.4 on 13 of 17 obs.

% JAN 07, 1991 11h 31m 34.37± 0.94s
40.680 N ±12.4km 28.610 E ± 5.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

KCT	0.47	204	ePg	31	44.00	0.0
			eSg	31	51.50	
YLV	0.59	101	iPg	31	46.50	0.1
			iSg	31	54.50	
BNT	0.62	239	iPg	31	47.00	0.2
			eSg	31	57.00	
EDC	0.66	240	ePg	31	48.00	0.5
IZI	0.74	117	ePg	31	48.50	-0.5
			iSg	31	59.50	
HRT	0.82	80	iPg	31	50.50	0.3
			iSg	32	01.50	
KGT	1.02	258	iPn	31	53.00	-0.7

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

JAN 07, 1991 11h 42m 56.17± 0.58s
38.022 N ± 7.0km 14.107 E ± 5.2km
DEPTH = 10.0km (geophysicist)
SICILY (398)

GIB	0.07	243	Pd	42	56.80	-1.8
			eSg	42	58.80	
MNO	0.47	101	P	43	06.40	0.5
			eSg	43	14.60	
MCT	0.54	224	P	43	07.70	0.5
			eSg	43	15.80	
CVT	1.10	252	P	43	17.90	1.2
			eSg	43	33.70	
MEU	1.13	144	Pd	43	17.00	-0.4
			eSn	43	33.50	
ERC	1.20	271	P	43	18.70	0.2
TDS	2.39	46	P	43	36.00	0.0
			eSn	44	05.50	
SGO	2.70	20	P	43	40.00	-0.4
ORI	2.74	41	P	43	41.00	0.1
			eSn	44	13.50	

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

? JAN 07, 1991 11h 45m 23.86± 0.69s
22.813 N ±32.1km 94.086 E ±26.9km
DEPTH = 33.0km (normal)
BURMA (296)

SHL	3.40	324	iP	46	16.00	-0.1
			iS	47	02.40	
CHG	6.04	130	eP	46	53.50	0.2
CHTO	6.04	130	eP	46	53.10	-0.2
GUN	8.99	306	P	47	35.20	0.4
PKI	9.17	303	P	47	37.60	0.3
GKN	9.98	303	P	47	47.60	-0.7

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

% JAN 07, 1991 12h 39m 01.53± 0.95s
40.663 N ±12.0km 28.652 E ± 5.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

YLV	0.56	100	ePg	39	13.00	0.1
			eSg	39	21.00	
BNT	0.64	241	iPg	39	14.40	0.1
IZI	0.71	117	ePg	39	16.00	0.5
			eSg	39	25.50	
HRT	0.79	78	iPg	39	16.50	-0.4
			iSg	39	26.90	
KGT	1.05	259	iPn	39	21.40	0.1
DST	1.06	181	ePn	39	21.10	-0.4

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

JAN 07, 1991 12h 43m 31.78± 0.44s
40.710 N ± 4.5km 28.632 E ± 3.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.8 (ISK).

ISK	0.48	42	iPg	43	41.90	0.4
			iSg	43	47.40	
KCT	0.51	205	iPg	43	41.90	-0.1
			eSg	43	48.40	
YLV	0.58	104	iPg	43	43.90	0.3
			iSg	43	52.40	
GBZT	0.62	82	ePg	43	43.50	-0.8
BNT	0.65	237	iPg	43	43.90	-0.9
			iSg	43	53.90	
EDC	0.69	239	ePg	43	45.00	-0.4
IZI	0.74	120	ePg	43	46.00	-0.4
			eSg	43	56.90	
HRT	0.79	82	iPg	43	46.90	-0.4
			iSg	43	58.40	
KGT	1.04	256	ePn	43	52.00	0.5
DST	1.10	180	ePn	43	53.60	1.1
DMK	1.29	330	ePn	43	56.00	0.3
GPA	1.35	108	ePn	43	57.00	0.4
ALT	2.01	145	ePn	44	06.20	0.0

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

% JAN 07, 1991 12h 44m 25.04± 1.23s
40.475 N ±14.5km 28.676 E ± 7.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

KCT	0.33	227	ePg	44	33.00	1.1
YLV	0.54	80	iPg	44	35.90	-0.1
			iSg	44	44.40	
BNT	0.59	259	ePg	44	36.40	-0.6
			iSg	44	46.40	
IZI	0.62	103	ePg	44	38.00	0.4
			iSg	44	48.90	
DST	0.87	182	ePn	44	41.00	-0.8

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

% JAN 07, 1991 12h 49m 14.32± 1.24s
40.723 N ±20.9km 28.651 E ± 5.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

YLV	0.57	106	iPg	49	25.90	-0.1
			iSg	49	34.40	
BNT	0.67	237	ePg	49	27.50	-0.1

07d 12h

IZI	0.74	121	ePg	49 28.90	0.1
			iSg	49 38.90	
HRT	0.78	82	ePg	49 29.50	0.0
KGT	1.06	256	iPn	49 34.40	0.1

S.D. = 0.1 on 5 of 5 obs.

JAN 07, 1991 12h 58m 10.08± 0.69s
5.026 S ± 7.4km 151.137 E ± 9.5km
DEPTH = 167.2 ± 7.3 km
4.9mb (12 obs.)
NEW BRITAIN REGION (192)

RAB	1.32	51	eP	58 39.50	-0.1
			iS	59 02.40	
PMG	5.88	222	eP	59 36.00	-0.2
MTN	21.22	247	eP	02 46.00	2.1X
RMQ	21.46	186	iPd	02 47.00	0.7
	0.9s	56.00nm		5.0mb	
BRS	22.30	176	iPd	02 49.60	-4.8X
DZM	22.51	140	iPc	02 56.80	0.3
ASPA	24.89	220	iPc	03 18.80	-0.4
	0.3s	19.00nm		5.1mb	
			eS	07 29.70	
XAN	55.65	317	P	07 31.20	0.0
CHTO	56.60	296	eP	07 39.10	1.1
	1.3s	9.80nm		4.5mb	
LZH	60.25	317	eP	08 03.50	0.3
	1.2s	18.00nm		4.8mb	
GTA	64.71	318	iPd	08 33.50	0.9
	0.6s	10.00nm		4.9mb	
GUN	70.82	302	P	09 11.32	0.1
	0.7s	20.00nm		5.0mb	
PKI	71.13	301	P	09 11.64	-1.3
	0.8s	9.00nm		4.6mb	
KKN	71.30	301	P	09 13.66	-0.2
	0.8s	15.00nm		4.8mb	
DMN	71.40	301	P	09 13.70	-0.8
	0.8s	22.00nm		5.0mb	
GKN	71.90	301	P	09 17.02	-0.3
	0.8s	20.00nm		4.9mb	
WMO	74.79	318	P	09 34.50	0.8
HYB	75.00	289	eP	09 35.00	-0.3
GBA	75.43	285	Pd	09 34.00	-3.7X
	0.3s	6.50nm		4.8mb	
YKA	96.40	28	eP	11 20.50	-0.3
	0.6s	0.80nm		4.3mb	
BCAO	132.77	271	ePKPc	17 08.60	0.8
	0.5s	3.00nm			
PPD	145.27	142	e(PKP)	17 29.00	-1.2
BAO	152.07	138	ePKPd	17 47.00	5.9X

S.D. = 0.7 on 19 of 23 obs.

JAN 07, 1991 13h 23m 53.39± 0.99s
41.128 N ± 7.8km 22.359 E ± 7.3km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.3 (SKO).

GRG	0.17	169	iP	23 56.21	-1.1
			eS	23 58.52	
VAY	0.25	39	iPg	23 59.20	0.5
			iSg	24 03.80	
KNT	0.41	85	eP	24 01.85	0.1
			eS	24 08.48	
SOH	0.81	112	eP	24 09.36	0.2
			iS	24 19.68	
FNA	0.82	246	iP	24 08.94	-0.4
			eS	24 19.44	
SRS	0.93	90	eP	24 09.96	-1.2
			eS	24 24.76	
LIT	1.03	174	eP	24 14.21	1.3
PAIG	1.57	140	eP	24 21.88	0.6
			eS	24 44.04	

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

% JAN 07, 1991 13h 46m 38.71± 0.88s
39.130 N ± 7.3km 27.623 E ±12.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

IZM	0.78	201	ePg	46 54.00	0.0
			eSg	47 06.00	
DST	0.91	58	iPn	46 56.20	0.0
BNT	1.25	10	ePn	47 01.90	0.0
KCT	1.25	27	ePn	47 02.00	0.0
KGT	1.34	350	iPn	47 03.40	0.0

S.D. = 0.0 on 5 of 5 obs.

JAN 07, 1991 14h 03m 42.27± 0.36s
43.289 N ± 2.9km 19.115 E ± 2.6km
DEPTH = 6.0 ± 2.9 km
3.9mb (3 obs.)
YUGOSLAVIA (383)
ML 4.4 (ZAG), 4.6 (VIE), 4.1 (TTG). MD 4.7 (TRI), 4.2 (ROM). Felt (VI) at Zabljak and Pluzine; (III) at Titograd.

PLE	0.21	79	iPgd	03 48.29	1.7
			iSg	03 53.39	
NKY	0.48	190	iPgd	03 50.67	-1.3
			iSg	03 57.57	
BRY	0.57	227	iPgd	03 51.59	-2.1
			iSg	03 59.86	
IVA	0.71	126	iPgd	03 56.76	0.3
			iSg	04 07.94	
TTG	0.87	173	iPgc	03 57.16	-2.1
			iSg	04 10.22	
PVY	0.94	137	iPgc	04 00.32	-0.3
			iSg	04 14.99	
HCY	0.96	209	iPgd	03 58.49	-2.3
			iSg	04 12.56	
BDV	1.03	192	iPgc	03 59.97	-2.1
			iSg	04 15.82	
ULC	1.33	176	iPgd	04 05.91	-1.3
			iSg	04 25.61	
HVAR	1.95	268	iPnc	04 16.00	-0.3
			iSg	04 43.80	
SKO	2.16	127	iPnc	04 20.80	1.5
			iPg	04 23.80	
			i	04 47.00	
			iSn	04 48.20	
			iSg	04 53.00	
			i	04 54.20	
			Lg	05 06.00	
OHR	2.51	150	iPnc	04 27.70	3.4X
			iSg	05 02.60	
			Lg	05 08.40	
BAI	2.74	218	P	04 25.50	-2.0
BRT	2.80	211	P	04 30.00	1.6
			eSn	05 04.00	
BZS	2.94	37	ePc	04 56.00	25.7X
FNA	3.02	145	iP	04 32.82	1.3
			eS	05 08.10	
LCI	3.08	197	P	04 33.80	1.5
			eSn	05 08.00	
VTS	3.09	102	iPc	04 35.00	2.4
VAY	3.23	126	iPn	04 35.00	0.5
			i	04 39.60	
			iSg	05 25.20	
			Lg	05 31.00	
			LR	05 48.00	
SRE	3.26	64	eP	04 40.50	5.6X
ZAG	3.38	320	ePn	04 36.60	0.0
			iSn	05 17.00	
			iSg	05 32.00	
GRG	3.38	133	iP	04 37.53	0.9
PTJ	3.45	320	iPnd	04 37.70	0.0
			eSn	05 18.50	
KNT	3.52	126	iP	04 39.33	0.7
VBY	3.54	310	ePn	04 40.00	1.1
			iSn	05 18.20	
KZN	3.58	145	eP	04 41.50	2.0
KEK	3.61	172	eP	04 40.40	0.5
TIH	3.71	347	iPn	04 41.00	-0.4
PGB	3.78	100	iPc	04 44.00	1.5
ORI	3.79	213	P	04 44.00	1.5
DUI	3.81	246	P	04 45.10	2.3
MMB	3.81	115	iPc	04 44.00	1.1
IGT	3.86	166	iP	04 44.00	0.5
			iS	05 28.20	
THE	3.91	131	iP	04 45.28	1.1
			eS	05 29.40	
SGO	3.94	227	P	04 45.30	0.8
			eSn	05 31.00	
SRS	3.97	122	iP	04 45.53	0.5
			eS	05 31.92	
SOH	4.00	127	iP	04 45.96	0.4
LIT	4.07	140	eP	04 46.76	0.4
			eS	05 33.80	
CEY	4.15	308	ePnc	04 48.40	0.8
			e	05 57.40	
			eSg	06 54.50	

TDS	4.18	211	P	04 50.10	2.1
			eSn	05 36.00	
BUD	4.20	359	iP	04 47.00	-1.1
SDI	4.23	250	P	04 50.50	1.8
COZ	4.27	60	eP	04 54.00	4.6X
LJU	4.27	312	ePnc	04 49.50	0.2
			e	05 02.50	
			eSg	05 59.00	
PLD	4.29	104	eP	05 01.00	11.5X
PLG	4.35	131	eP	04 51.20	0.7
TNR	4.38	56	ePc	04 56.00	5.1X
AZI	4.39	255	P	04 53.40	2.5
RZN	4.44	109	eP	04 43.00	-8.9X
ARV	4.50	275	Pc	04 55.20	2.6
			eSn	05 46.50	
TRI	4.53	304	ePn	04 53.30	0.4
			iPg	05 10.00	
			iSn	05 49.00	
			iSg	06 15.60	
PVL	4.54	89	eP	04 52.00	-1.1
SRO	4.56	353	iPn	04 53.20	-0.1
	1.0s	0.20nm			
			i	05 02.80	
			i	05 38.90	
			i	05 44.80	
			LR	06 30.00	
VOY	4.63	308	iPnc	04 54.60	0.2
			eSn	05 44.10	
PSZ	4.66	6	iPn	04 55.10	0.2
OUR	4.68	127	eP	04 55.04	-0.1
CMP	4.69	63	ePc	05 05.00	9.7X
ASS	4.73	270	Pd	04 58.00	2.2
			eSn	05 49.00	
PAIG	4.79	133	eP	04 56.52	-0.2
MNS	4.82	261	Pc	04 58.80	1.7
			eSn	05 53.00	
RSM	4.88	280	P	05 01.20	3.3X
DIM	4.89	102	eP	05 06.00	7.9X
AGG	4.90	149	eP	04 58.84	0.5
			eS	05 54.48	
KDZ	4.94	107	iP	05 01.00	2.2
RMP	4.96	255	P	05 00.70	1.6
NEO	5.04	141	eP	05 06.00	5.8X
ZST	5.11	345	ePn	05 00.60	-0.5
	0.8s	0.03nm			2.0mb X
			i	05 08.60	
			i	05 14.00	
			i	05 44.50	
			i	06 22.60	
BUC1	5.11	76	eP	05 20.00	18.8X
CRE	5.23	276	P	05 05.80	2.9X
RDO	5.23	112	eP	05 03.00	0.2
VLS	5.23	167	eP	05 01.00	-1.9
SFI	5.31	279	P	05 06.30	2.3
VKA	5.35	340	iPnc	05 06.50	2.0
			iSn	06 06.20	
			iSg	06 40.10	
BMR	5.36	34	ePd	05 25.00	20.3X
MLR	5.37	63	eP	05 03.00	-2.0
VVI	5.48	302	P	05 08.50	2.0
KBA	5.57	315	iPnc	05 07.80	0.0
			i	06 08.10	
			iSn	06 11.20	
FVI	5.58	308	P	05 10.20	2.4
CVO	5.64	61	eP	05 17.00	8.2X
ISR	5.65	68	eP	05 04.50	-4.4X
ALN	5.68	113	iP	05 09.62	0.4
			eS	06 12.60	
FIR	5.73	278	ePn	05 12.50	2.5
			eSn	06 15.00	
KMR	5.91	326	ePn	05 15.00	2.6
			iSn	06 22.40	
CTI	5.99	300	Pd	05 14.80	1.0
VRI	6.02	62	eP	05 17.50	3.5X
MME	6.16	281	P	05 18.50	2.2
BDI	6.23	280	P	05 18.40	1.4
BHG	6.23	317	iPnd	05 17.40	0.4
PII	6.26	277	P	05 18.90	1.5
MNO	6.32	214	P	05 18.00	-0.5
ATH	6.36	145	eP	05 18.00	-0.8
SCE	6.44	308	ePd	05 20.00	-0.1
ITM	6.47	160	eP	05 19.10	-1.3
GIB	6.56	218	P	05 22.00	0.3
SAL	6.57	294	P	05 23.00	1.2
PSN	6.61	83	eP	05 29.00	6.7X
WATA	6.68	310	iPnc	05 24.80	1.3
			i	06 47.20	

			i	06 56.70		
PRK	6.74	124	eP	05 24.80	0.7	
OGA	6.75	305	iPnc	05 24.60	0.1	
CFR	6.76	71	eP	05 49.00	24.5X	
KRA	6.79	4	eP	05 23.20	-1.7	
			e	05 34.30		
SOTA	6.82	308	iPnc	05 26.00	0.5	
			iSn	06 49.60		
			iSgSg	07 44.00		
KHC	6.99	329	iPnd	05 27.20	-0.5	
			e	06 45.00		
BOB	7.12	285	P	05 31.30	1.7	
MDI	7.17	294	P	05 30.40	0.3	
VLI	7.19	155	eP	05 28.10	-2.3	
BNT	7.20	111	eP	05 29.40	-1.2	
OSS	7.21	301	eP	05 31.00	0.1	
FUR	7.34	314	iPd	05 32.30	-0.3	
PRU	7.40	336	ePn	05 35.50	2.1	
			e	05 40.60		
			e	06 06.20		
			Sg	07 08.00		
PGF	7.46	268	Pn	05 33.20	-1.2	
			Sn	06 53.40		
KCT	7.55	111	eP	05 34.00	-1.5	
VDL	7.56	298	eP	05 36.00	0.2	
KSP	7.80	347	eP	05 39.20	0.2	
			e	05 45.00		
			eS	07 10.50		
VAI	7.82	293	P	05 40.00	0.7	
IZM	7.87	126	eP	05 41.00	0.9	
GRB3	7.89	323	ePn	05 38.10	-2.1	
CKI	7.91	282	P	05 41.00	0.4	
SAX	7.95	303	eP	05 41.70	0.3	
LLS	8.00	300	eP	05 42.40	0.3	
HRT	8.23	104	eP	05 53.00	7.9X	
ORO	8.30	290	P	05 47.00	0.9	
BRG	8.37	337	e(Pn)	05 46.00	-0.9	
			e	06 25.00		
			e	07 07.00		
			e	07 54.00		
			e	08 24.00		
SBF	8.50	278	Pn	05 47.00	-1.9	
SLE	8.70	305	eP	05 49.80	-1.7	
DIX	8.79	293	eP	05 53.50	0.4	
VAM	8.80	152	eP	05 49.00	-3.9X	
MOX	8.96	328	ePn	05 55.00	-0.2	
Z	17s		0.80um			
CLL	9.03	335	Pn	05 57.00	0.9	
			e	08 33.00		
FEL	9.03	304	eP	05 53.90	-2.4	
FRF	9.08	276	Pn	05 55.20	-1.6	
			Sn	07 34.00		
BNI	9.11	285	P	05 57.00	-0.4	
EMS	9.12	292	eP	05 57.40	-0.1	
LPG	9.12	288	Pn	05 55.20	-2.5	
			Sn	07 34.00		
LPL	9.14	288	Pn	05 55.60	-2.3	
LMR	9.19	275	Pn	05 56.40	-2.0	
RSL	9.24	289	P	05 58.39	-0.9	
LRG	9.29	275	Pn	05 58.40	-1.3	
CDF	9.72	306	Pn	06 03.20	-2.5	
BSF	9.76	302	Pn	06 04.00	-2.3	
			Sn	07 53.60		
TNS	10.08	317	ePn	06 09.30	-1.3	
			eSn	07 58.10		
HAU	10.10	302	Pn	06 09.40	-1.6	
			Sn	08 01.60		
LBF	11.31	294	Pn	06 26.00	-1.5	
			Sn	08 28.80		
SMF	11.33	292	Pn	06 25.20	-2.5	
LOR	11.46	296	Pn	06 28.80	-0.7	
SSF	11.64	294	Pn	06 31.00	-0.9	
BGF	11.99	291	Pn	06 35.20	-1.4	
NB2	18.40	348	P	08 07.70	8.2X	
	0.7s		2.60nm		3.5mb	
SOD	24.48	7	eP	08 58.00	-4.7X	
BCAO	38.70	181	iPc	11 10.00	1.3	
	0.8s		5.00nm		4.3mb	
YKA	68.24	339	eP	14 45.20	-0.2	
	0.5s		0.50nm		4.0mb	
S.D. = 1.4 on 128 of 151 obs.						

JAN 07, 1991 14h 07m 47.02± 0.80s
43.161 N ± 6.8km 19.102 E ± 5.3km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.8 (TTG).

PLE	0.27	52	iPgd	07 52.62	-0.2	
			iSg	07 57.50		
NKY	0.36	192	iPgc	07 54.72	0.3	
			iSg	08 01.93		
BRY	0.49	238	iPgd	07 55.65	-1.3	
			iSg	08 03.42		
IVA	0.65	116	iPgc	08 00.82	0.7	
			iSg	08 11.58		
TTG	0.74	171	iPgd	08 01.25	-0.3	
			iSg	08 14.37		
HCY	0.84	212	iPgc	08 02.70	-0.5	
			iSg	08 16.30		
PVY	0.85	131	iPgc	08 03.85	0.3	
			iSg	08 18.37		
BDV	0.90	193	iPgd	08 05.10	0.8	
			iSg	08 19.48		
ULC	1.20	175	iPgd	08 09.85	0.4	
			iSg	08 29.92		
HVAR	1.94	271	iPn	08 21.50	1.1	
			iSn	08 46.20		
VAY	3.16	124	iPg	08 36.30	-1.5	
S.D. = 0.9 on 11 of 11 obs.						

JAN 07, 1991 14h 25m 36.71± 0.60s
44.034 N ± 6.4km 11.935 E ± 6.4km
DEPTH = 25.4 ± 7.8 km
NORTHERN ITALY (545)

SFI	0.13	208	Pd	25 41.30	-0.3	
			eSg	25 42.50		
CRE	0.41	178	Pc	25 44.70	-0.8	
			eSg	25 51.00		
MME	0.90	281	P	25 54.60	0.8	
			eSg	26 07.00		
ARV	0.91	126	P	25 53.10	-0.6	
			eSg	26 08.00		
BDI	0.97	272	P	25 54.20	-0.4	
			eSg	26 08.50		
PII	1.07	253	P	25 55.60	-0.4	
			eSn	26 10.50		
ASS	1.10	151	P	25 57.00	0.5	
			eSn	26 13.00		
MNS	1.74	161	Pd	26 07.00	1.3	
			eSn	26 26.50		
CTI	2.02	354	P	26 10.00	0.1	
			eSn	26 34.40		
FVI	2.63	13	P	26 18.20	-0.1	
S.D. = 0.8 on 10 of 10 obs.						

JAN 07, 1991 15h 00m 10.08± 0.48s
40.747 N ± 4.6km 28.607 E ± 3.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.8 (ISK).

ISK	0.47	47	ePg	00 20.00	0.4	
KCT	0.53	201	ePg	00 20.80	-0.1	
YLV	0.61	107	ePg	00 22.30	-0.1	
			iSg	00 30.30		
GBZT	0.64	86	ePg	00 22.00	-0.9	
			iSg	00 31.50		
BNT	0.65	233	iPg	00 22.90	-0.2	
			iSg	00 32.40		
EDC	0.69	235	ePg	00 24.00	0.2	
IZI	0.78	122	iPg	00 25.30	0.0	
			eSg	00 35.30		
HRT	0.81	84	iPg	00 25.80	0.0	
			iSg	00 36.30		
DST	1.14	179	iPn	00 31.60	0.1	
DMK	1.25	329	iPn	00 33.20	-0.1	
GPA	1.38	109	ePn	00 36.00	0.7	
S.D. = 0.4 on 11 of 11 obs.						

? JAN 07, 1991 15h 36m 45.57±11.71s
13.056 N ±75.8km 60.535 W ±67.1km
DEPTH = 33.0km (normal)
WINDWARD ISLANDS (95)
MD 3.9 (TRN).

SOA	0.68	298	eP	36 59.40	0.8	
			eS	37 17.18		
SVV	0.71	292	eP	36 58.82	-0.4	
			eS	37 15.84		
SVB	0.73	287	eP	36 59.07	-0.4	
			eS	37 16.42		
SLB	0.91	327	eP	37 02.53	0.5	
			eS	37 22.86		
MVM	1.53	347	eP	37 10.00	-0.9	
BIM	1.54	340	eP	37 11.01	-0.1	
CRM	1.73	348	eP	37 12.85	-0.9	
FDF	1.77	340	eP	37 13.40	-1.0	
B8L	2.62	340	eP	37 27.00	0.5	
DEG	3.28	351	eP	37 37.60	1.7	
S.D. = 1.0 on 10 of 10 obs.						

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* JAN 07, 1991 15h 43m 28.84± 1.03s
36.211 N ± 9.2km 121.880 E ±13.9km
DEPTH = 10.0km (geophysicist)
3.8mb (1 obs.)
EASTERN CHINA (664)

DL2	2.70	356	Pn	44 14.50	1.5	
			Pg	44 21.50		
			Sg	44 57.50		
TIA	3.85	271	ePn	44 29.60	0.3	
			Pg	44 38.00		
NJ2	4.85	212	Pg	44 53.50	10.0X	
			Sg	45 55.60		
SSE	5.13	187	Pnd	44 48.00	0.4	
SNY	5.76	13	ePn	44 56.40	0.0	
			Sg	46 30.60		
BJI	5.90	312	Pn	44 57.50	-0.9	
TIY	7.71	284	ePg	45 52.10	28.2X	
YKA	71.72	24	eP	54 51.30	-1.3	
	0.6s		0.50nm		3.8mb	
S.D. = 1.3 on 6 of 8 obs.						

% JAN 07, 1991 16h 16m 51.88± 1.30s
43.227 N ± 9.6km 19.010 E ± 7.1km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.3 (TTG).

PLE	0.30	70	iPgd	16 58.36	0.2	
			iSg	17 02.48		
NKY	0.41	181	iPgc	17 00.38	0.0	
			iSg	17 07.43		
BRY	0.47	227	iPgd	17 01.34	-0.2	
			iSg	17 08.71		
IVA	0.74	118	iPgc	17 06.17	-0.3	
			iSg	17 17.04		
TTG	0.82	167	iPgc	17 07.08	-0.6	
			iSg	17 19.86		
HCY	0.86	206	iPgc	17 08.36	-0.2	
			iSg	17 21.71		
PVY	0.95	131	iPgd	17 09.91	-0.1	
			iSg	17 25.11		
BDV	0.95	188	iPgc	17 10.26	0.2	
			iSg	17 24.64		
ULC	1.27	172	iPgc	17 16.49	0.9	
			iSg	17 35.38		
S.D. = 0.5 on 9 of 9 obs.						

% JAN 07, 1991 17h 16m 22.58± 1.16s
46.849 N ± 9.8km 0.440 W ±18.0km
DEPTH = 5.0km (geophysicist)
FRANCE (538)
ML 2.8 (LDG).

MFF	0.32	141	Pg	16 29.20	0.2	
			Sg	16 34.60		
LPF	1.25	341	Pn	16 46.00	-0.3	
			Pg	16 48.40		
			Sg	17 06.20		
LSF	1.49	113	Pg	16 51.40	1.4	
			Sg	17 10.60		
GRR	1.57	350	Pn	16 51.20	0.1	
			Pg	16 54.00		
			Sg	17 17.20		
LDF	1.76	7	Pn	16 54.60	0.7	
			Pg	16 58.20		
			Sg	17 24.00		
TCF	1.91	106	Pg	17 00.40	4.2X	
			Sg	17 26.00		
FLN	1.91	359	Pn	16 55.80	-0.3	
			Pg	17 00.30		
			Sg	17 27.60		
RJF	2.06	138	Pg	16 59.60	1.3	
			Sg	17 25.60		
LFF	2.08	156	Pg	16 58.80	0.3	
			Sg	17 24.20		
MAF	2.17	106	Pg	17 05.00	5.2X	
			Sg	17 33.20		
BGF	2.28	96	Pg	17 07.20	5.7X	

07d 17h

		Sg	17 38.00		
LPO	2.45 152	Pg	17 05.80	2.0X	
		Sg	17 35.40		
CAF	2.60 137	Pn	17 03.60	-2.4	
		Pg	17 11.00		
		Sg	17 43.00		
AVF	2.60 90	Pg	17 13.60	7.6X	
		Sg	17 49.00		
SSF	2.71 84	Pg	17 15.60	8.0X	
SMF	2.95 92	Pn	17 10.00	-1.0	
		Pg	17 20.00		
		Sn	17 59.00		
LOR	2.97 80	Pn	17 21.00	9.8X	
		Sg	18 00.60		
LBF	3.03 86	Pg	17 21.50	9.4X	
		Sg	18 01.00		

S.D. = 1.3 on 10 of 18 obs.

? JAN 07, 1991 17h 20m 57.51± 2.81s
23.515 S ±19.2km 178.925 E ±23.4km
DEPTH = 628.3 ± 28.1 km
5.0mb (7 obs.)
SOUTH OF FIJI ISLANDS (171)

DZM	11.60 275	iPc	23 32.30	-0.2	
COO	25.04 248	eP	25 37.00	0.2	
RMO	27.47 258	iPc	25 59.60	1.7	
CMS	30.33 248	iPc	26 21.60	-0.6	
	0.9s 50.00nm		5.1mb		
TOO	31.84 236	iPc	26 34.00	-0.9	
	0.5s 30.00nm		5.2mb		
BFD	34.00 238	iPd	26 53.20	0.3	
ADE	36.68 243	iPc	27 14.10	-0.8	
	0.7s 28.77nm		5.0mb		
ASPA	41.13 260	iPc	27 51.40	0.6	
	0.8s 233.40nm		5.7mb	X	
		iPcS	32 31.30		
		iScP	32 38.20		
		iS	33 22.90		
WRA	41.45 266	P	27 53.00	-0.4	
	0.9s 54.80nm		5.0mb		
FORR	45.48 249	iPc	28 23.90	-0.6	
	0.4s 37.00nm		5.2mb		
WARB	47.26 255	iPc	28 38.00	-0.1	
	0.3s 6.00nm		4.5mb		
KLB	54.22 247	eP	29 27.80	-0.6	
MBL	54.38 260	iPc	29 29.80	0.2	
BAL	55.26 248	eP	29 36.50	0.9	
SPA	66.63 180	iPd	30 49.60	0.5	
	0.6s 7.32nm		4.3mb		
SOB1	129.27 125	(PKP)	39 02.00	3.9X	
NB2	141.54 350	PKP	39 19.00	-0.6	
	1.0s 4.60nm				
HFS	141.97 348	ePKP	39 20.50	0.2	
	0.4s 5.60nm				
KSP	149.57 338	ePKP	39 43.20	10.3X	
CLL	150.19 342	iPKP	39 44.40	10.6X	
	1.0s 14.00nm				
BRG	150.30 341	iPKPc	39 45.20	11.2X	
	1.1s 21.00nm				

S.D. = 0.8 on 17 of 21 obs.

% JAN 07, 1991 17h 26m 11.14± 0.96s
40.708 N ±12.2km 28.666 E ± 4.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

YLV	0.56 104	iPg	26 22.30	-0.2	
		iSg	26 30.30		
BNT	0.67 239	iPg	26 24.30	-0.1	
		eSg	26 33.30		
EDC	0.71 240	ePg	26 24.50	-0.6	
IZI	0.72 121	iPg	26 25.30	0.0	
		iSg	26 35.00		
HRT	0.77 81	iPg	26 26.30	0.1	
KGT	1.07 257	iPg	26 31.80	0.5	
		iSg	26 45.30		
DST	1.10 182	iPn	26 32.20	0.3	

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

JAN 07, 1991 18h 29m 14.77± 0.49s
11.374 N ± 9.9km 139.303 E ± 5.5km
DEPTH = 33.0km (normal)
4.9mb (7 obs.)
WEST CAROLINE ISLANDS (209)

PJG	5.86 67	eP	30 42.30	0.6	
GUA	5.88 68	eP	30 41.60	-0.4	
	0.9s 322.69nm		5.9mb	X	
		e	30 44.70		
SSE	25.81 322	P	34 44.00	-0.7	
	1.0s 25.00nm		4.8mb		
BJI	35.13 328	eP	36 07.00	-0.2	
	1.0s 18.00nm		5.0mb		
ASPA	35.22 189	eP	36 08.50	0.2	
	1.4s 24.70nm		4.9mb		
TIY	35.60 322	Pc	36 12.70	1.3	
CD2	38.19 306	P	36 34.00	0.7	
CHTO	39.59 286	eP	36 45.00	-0.1	
	1.0s 1.25nm		3.6mb	X	
GTA	44.75 316	eP	37 27.40	0.3	
	1.0s 10.00nm		4.6mb		
GUN	52.53 296	Pd	38 28.06	0.2	
PKI	52.90 296	Pd	38 30.14	-0.5	
KKN	53.04 296	Pd	38 31.22	-0.3	
	0.6s 13.00nm		5.1mb		
DMN	53.17 296	Pd	38 32.38	-0.1	
	0.6s 16.00nm		5.1mb		
GKN	53.63 296	Pd	38 35.42	-0.3	
WMO	54.83 316	iPc	38 44.50	0.3	
GBA	60.31 279	Pc	39 22.80	-0.3	
	0.4s 1.30nm		4.4mb		
INK	78.47 22	eP	41 13.00	-0.7	

S.D. = 0.6 on 17 of 17 obs.

JAN 07, 1991 18h 42m 29.62± 1.02s
40.707 N ± 7.0km 29.986 E ± 7.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.1 (ISK).

HRT	0.27 296	iPg	42 35.80	0.5	
GBZT	0.42 281	ePg	42 37.00	-1.2	
		iSg	42 44.00		
GPA	0.48 149	iPg	42 40.10	0.6	
		iSg	42 45.60		
YLV	0.49 254	iPg	42 39.30	-0.2	
		iSg	42 46.30		
IZI	0.54 227	iPg	42 41.00	0.5	
		eSg	42 49.00		
ISK	0.79 297	iPg	42 44.80	-0.2	
		iSg	42 55.80		
KCT	1.32 250	ePn	42 54.80	0.7	
DST	1.51 224	ePn	42 56.70	-0.1	
BNT	1.61 258	iPn	42 57.80	-0.4	
ALT	1.65 177	iPn	42 57.40	-1.5	
EDC	1.66 258	ePn	42 59.50	0.7	
DMK	2.02 304	ePn	43 04.20	0.1	
KGT	2.06 264	ePn	43 05.00	0.3	
KHL	2.41 189	ePn	43 10.00	0.2	

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

% JAN 07, 1991 18h 56m 26.40± 0.51s
40.722 N ± 5.5km 28.644 E ± 4.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

ISK	0.47 42	ePg	56 36.00	0.1	
YLV	0.58 105	iPg	56 37.80	-0.3	
		iSg	56 46.80		
BNT	0.66 237	iPg	56 39.30	-0.3	
		iSg	56 49.30		
EDC	0.70 238	ePg	56 39.50	-0.8	
IZI	0.74 121	iPg	56 41.00	0.0	
		iSg	56 50.50		
HRT	0.78 82	iPg	56 41.80	0.1	
		iSg	56 52.80		
KGT	1.06 256	iPg	56 47.30	1.0	
		iSg	57 01.30		
DST	1.12 181	ePn	56 47.70	0.3	
DMK	1.29 329	ePn	56 50.00	-0.2	

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

% JAN 07, 1991 21h 20m 56.24± 0.73s
40.716 N ± 9.8km 28.612 E ± 5.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

ISK	0.49 44	iPg	21 06.20	0.1	
		iSg	21 12.20		
YLV	0.60 104	iPg	21 08.20	-0.2	
		iSg	21 16.20		
BNT	0.64 236	iPg	21 08.70	-0.4	
IZI	0.76 120	iPg	21 11.50	0.4	
		eSg	21 21.00		
HRT	0.81 82	iPg	21 11.70	-0.3	
		iSg	21 22.20		
KGT	1.03 256	iPn	21 16.00	0.3	

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

% JAN 07, 1991 21h 25m 37.97± 0.75s
40.736 N ± 8.0km 28.645 E ± 5.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.5 (ISK).

ISK	0.45 44	iPg	25 47.70	0.5	
		iSg	25 53.70		
YLV	0.58 107	iPg	25 49.20	-0.6	
		iSg	25 58.20		
IZI	0.75 122	iPg	25 52.90	0.3	
		eSg	26 02.70		
HRT	0.78 83	iPg	25 53.20	0.0	
		iSg	26 04.20		
KGT	1.06 255	iPg	25 58.20	0.3	
DMK	1.27 329	ePn	26 01.20	-0.4	

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

& JAN 07, 1991 22h 53m 59.60s
33.250 N 116.250 W
DEPTH = 6.0km (geophysicist)
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 2.8 (PAS).

PLM	0.52 282	iPc	54 09.50	-0.6	
PEC	0.99 310	iPc	54 17.60	-1.2	
GLA	1.21 99	eP	54 19.50	-3.0	

3 obs. associated

JAN 07, 1991 23h 08m 28.55± 0.68s
43.128 N ± 5.5km 19.067 E ± 5.4km
DEPTH = 5.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.7 (TTG).

PLE	0.31 50	iPgd	08 33.38	-1.5	
		iSg	08 37.58		
NKY	0.32 189	iPgc	08 35.73	0.7	
		iSg	08 42.96		
BRY	0.45 240	iPgd	08 36.59	-0.9	
		iSg	08 45.09		
IVA	0.66 113	iPgc	08 41.69	-0.1	
		iSg	08 52.51		
TTG	0.71 168	iPgd	08 42.74	-0.1	
		iSg	08 56.28		
HCY	0.80 212	iPgc	08 43.63	-0.9	
		iSg	08 58.34		
PVY	0.85 128	iPgc	08 45.39	-0.2	
		iSg	09 00.13		
BDV	0.86 192	iPgc	08 45.59	0.0	
		iSg	09 01.16		
ULC	1.17 173	iPgc	08 51.71	0.8	
		iSg	09 11.46		
HVAR	1.92 272	iPn	09 02.70	0.5	
		iSg	09 28.10		
BEO	1.97 30	ePn	09 04.50	1.6	
		i(Sg)	09 30.00		
SKO	2.10 123	ePn	09 09.00	4.2X	
OHR	2.39 147	ePn	09 13.30	4.2X	
BZS	3.09 35	ePc	09 28.00	9.2X	

S.D. = 1.0 on 11 of 14 obs.

JAN 07, 1991 23h 24m 31.58± 0.50s
40.725 N ± 4.8km 28.623 E ± 4.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.9 (ISK).

ISK	0.47 44	iPg	24 41.70	0.5	
		iSg	24 47.70		
KCT	0.52 203	ePg	24 41.70	-0.4	
		eSg	24 49.20		
YLV	0.59 105	iPg	24 43.20	-0.4	
		iSg	24 51.20		
GBZT	0.63 84	ePg	24 43.60	-0.6	
BNT	0.65 236	iPg	24 44.20	-0.4	
		eSg	24 53.70		
EDC	0.69 237	ePg	24 45.50	0.2	

```
IZI      0.75 121 iPg    24 46.70   0.3
                 iSg    24 56.20
HRT      0.80  83 iPg    24 47.20   0.1
                 iSg    24 56.20
DST      1.12 180 iPn    24 53.30   0.7
DMK      1.28 330 iPn    24 55.20   0.0
      S.D. = 0.5  on  10 of  10 obs.
-------------------------------------
&  JAN  08, 1991  01h 14m 06.44s
   60.055 N          152.763 W
   DEPTH =  97.5km
 SOUTHERN ALASKA                 (  2)
      <AEIC>.

INE      0.15 272 eP     14 19.71   0.7
                 eS     14 30.73
RED      0.37 359 iP     14 20.69  -0.7
RS2      0.41   0 eP     14 21.19  -0.6
RSO      0.41   1 eP     14 21.13  -0.7
REF      0.44   4 iP     14 21.36  -0.6
                 eS     14 34.00
RDN      0.46   0 iP     14 21.43  -0.6
OPT      0.47 210 iP     14 21.30  -0.7
                 eS     14 33.03
NCT      0.52 351 iP     14 21.69  -0.7
RDT      0.55  19 iP     14 21.85  -0.8
                 eS     14 34.49
HOM      0.69 125 eP     14 23.32  -0.4
                 eS     14 37.21
NNL      0.74  90 eP     14 24.45   0.2
AUE      0.76 204 eP     14 23.47  -1.0
PDB      0.77 250 iP     14 23.66  -0.9
                 eS     14 37.05
AUP      0.77 206 eP     14 23.66  -1.0
XLV      0.80 138 eP     14 24.02  -0.8
CNPM     0.94 124 iP     14 25.56  -0.7
                 eS     14 40.21
BRLK     0.99 106 eP     14 26.50  -0.4
CKL      1.16  10 iP     14 28.32  -0.7
SPU      1.18  17 eP     14 28.37  -0.8
                 eS     14 45.74
MCNL     1.18 223 eP     14 27.84  -1.2
BGL      1.23   8 eP     14 29.19  -0.5
CGLM     1.31  16 iP     14 30.14  -0.6
SLKM     1.35  69 eP     14 29.91  -1.2
NCG      1.39  12 eP     14 31.23  -0.4
SYI      1.46 172 eP     14 31.24  -1.2
SEW      1.66  87 eP     14 33.27  -1.7
PMS      1.98  51 eP     14 38.52  -0.7
SKT      2.02  17 eP     14 38.86  -0.9
LTI      2.46  88 eP     14 43.45  -2.2
KNIM     2.53  81 eP     14 43.48  -3.0
MTU      2.57  89 eP     14 45.06  -2.0
CUT      2.65  26 eP     14 47.53  -0.6
      32 obs. associated
-------------------------------------
*  JAN  08, 1991  02h 06m 52.20± 0.86s
    4.186 S ±10.8km  145.866 E ±18.4km
   DEPTH =  33.0km  (normal)
    5.2mb (  8 obs.)  4.0Msz (  1 obs.)
 NEAR N COAST OF PAPUA NEW GUINEA(200)

YYYY     2.04 177 eP     07 23.00  -2.1
MNDI     2.94 228 eP     07 43.00   5.1X
PMG      5.34 166 eP     08 08.00  -3.8X
QIS     17.38 200 e(P)   10 55.60   1.7
RMO     22.35 173 iPd    11 50.70   1.8
        0.5s     43.00nm          5.2mb
ASPA    22.55 210 iPc    11 50.30  -0.6
        0.5s     14.70nm          4.7mb
      Z 20s      0.60um           4.0Msz
                 eS     15 42.60
BRS     24.00 165 iPd    12 04.20  -0.8
                 ic     12 35.00
DZM     26.72 134 iPd    12 31.10   0.3
COO     26.86 168 eP     12 32.00   0.1
ADE     31.34 191 iPc    13 11.20  -0.8
BFD     32.97 185 eP     13 27.00   0.9
XAN     51.57 320 P      16 05.50   8.0X
LZH     56.11 319 eP     16 39.00   8.0X
        1.4s     16.00nm          4.9mb
                 sP     16 52.00
GTA     60.63 320 iPd    17 11.00   8.4X
        1.0s     10.00nm          4.9mb
GUN     65.94 303 P      17 38.40   0.4
        0.6s     25.00nm          5.5mb
PKI     66.22 302 P      17 39.80   0.0
KKN     66.40 303 P      17 40.80   0.0
        0.6s     23.00nm          5.5mb
DMN     66.49 302 P      17 41.60   0.1
        0.6s     22.00nm          5.4mb
GKN     67.01 303 P      17 43.80  -0.8
        0.6s     23.00nm          5.5mb
WMQ     70.69 319 P      18 15.00   8.0X
YKA     98.10  28 eP     20 33.40   6.9X
        0.9s      0.50nm          4.0mb X
SIV    146.65 128 PKP    26 35.50   4.0X
KIC    150.65 275 PKP    26 50.80  13.0X
      S.D. = 1.1  on  14 of  23 obs.
-------------------------------------
&  JAN  08, 1991  02h 10m 28.50s
   38.792 N          122.777 W
   DEPTH =   1.0km
 NORTHERN CALIFORNIA             ( 36)
      <BRK>. ML 3.4 (BRK).
      Mo=2.4*10**14 Nm (BRK).

NWRM     0.35 195 eP     10 35.70   0.3
ZSP      0.94 154 iPc    10 46.37  -0.8
                 iS     11 00.72
BRK      1.00 156 eP     10 47.00  -1.3
                 iS     11 01.90
BKS      1.01 155 iPc    10 46.90  -1.5
                 eS     11 02.20
ORV      1.25  52 eP     10 51.13  -1.5
PCC      1.33 166 eP     10 51.80  -2.0
                 eS     11 10.18
MHC      1.70 148 eP     10 57.50  -2.1
ARN      1.74 145 eP     10 57.70  -2.4
WDC      1.80   6 eP     11 01.30   0.5
MIN      1.80  30 ePd    10 58.42  -2.6
GCC      1.86 160 eP     10 59.00  -2.8
CMB      2.03 111 iPc    11 02.70  -1.5
                 iS     11 29.20
SAO      2.28 152 eP     11 05.30  -2.6
LLA      2.61 146 eP     11 09.50  -3.1
PRS      2.70 155 eP     11 11.10  -2.7
FRI      3.02 126 eP     11 17.50  -0.9
BONR     3.62 102 e(P)   11 26.00  -1.1
TNP      4.42  97 e(P)   11 41.00   2.5
      18 obs. associated
-------------------------------------
%  JAN  08, 1991  02h 59m 28.28± 0.52s
   40.713 N ± 4.9km   28.641 E ± 4.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      MD 2.7 (ISK).

ISK      0.47  42 iPg    59 38.10   0.2
                 iSg    59 44.60
KCT      0.51 205 ePg    59 39.00   0.3
                 eSg    59 45.50
YLV      0.58 105 iPg    59 39.80  -0.2
                 iSg    59 49.00
BNT      0.66 237 iPg    59 41.00  -0.4
                 eSg    59 50.50
EDC      0.70 239 ePg    59 41.50  -0.6
IZI      0.74 120 iPg    59 43.00   0.2
                 eSg    59 52.50
HRT      0.79  82 iPg    59 43.10  -0.5
                 iSg    59 54.60
DST      1.11 181 iPn    59 49.60   0.5
DMK      1.29 329 iPn    59 52.60   0.4
      S.D. = 0.5  on   9 of   9 obs.
-------------------------------------
%  JAN  08, 1991  03h 23m 03.29± 1.36s
   40.744 N ±14.9km   28.623 E ± 6.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      MD 2.6 (ISK).

YLV      0.60 107 iPg    23 15.00  -0.4
                 iSg    23 24.00
BNT      0.66 234 iPg    23 16.50   0.0
                 eSg    23 26.00
EDC      0.70 236 ePg    23 17.00  -0.1
IZI      0.76 122 iPg    23 18.30   0.0
                 eSg    23 28.50
HRT      0.80  84 iPg    23 19.10   0.3
                 iSg    23 30.10
DST      1.14 180 ePn    23 24.80   0.2
      S.D. = 0.3  on   6 of   6 obs.
-------------------------------------
?  JAN  08, 1991  03h 28m 28.48± 4.90s
   37.699 N ±29.6km   27.161 E ±36.0km
   DEPTH =  33.0km  (normal)
 TURKEY                          (366)
      MD 3.4 (ISK).

IZM      0.70   7 iPg    28 41.80  -0.2
                 iSg    28 49.00
CIN      0.74  97 iPc    28 42.00  -0.5
KHL      1.97  71 ePn    29 01.30   1.1
DST      2.22  31 iPn    29 02.80  -1.0
ALT      2.68  59 ePn    29 15.00   4.6X
EDC      2.70  11 ePn    29 11.00   0.5
KCT      2.71  20 ePn    29 11.00   0.3
BNT      2.72  12 ePn    29 11.00   0.2
IZI      3.19  34 ePn    29 17.00  -0.5
YLV      3.34  30 ePn    29 26.00   6.3X
      S.D. = 0.8  on   8 of  10 obs.
-------------------------------------
*  JAN  08, 1991  04h 00m 08.88± 0.95s
   21.894 S ±10.0km   68.736 W ±14.7km
   DEPTH = 119.7 ± 16.0 km
   4.1mb (  1 obs.)
 CHILE-BOLIVIA BORDER REGION     (124)

ANT      2.38 220 eP     00 47.70   0.1
CNCB     5.11   8 P      01 25.00   0.0
CCH      5.11  29 P      01 26.20   1.5
LPB      5.37   7 P      01 27.00  -1.3
ZOBO     5.63   6 P      01 32.00   0.0
ARE      6.00 334 eP     01 33.00  -3.9X
                 eS     02 39.00
SIV      9.33  52 P      02 16.70  -5.1X
PPD     16.17  94 e(P)   03 50.00  -0.5
YKA     91.61 341 eP     13 03.20   0.3
        0.7s     0.80nm          4.1mb
      S.D. = 1.2  on   7 of   9 obs.
-------------------------------------
*  JAN  08, 1991  04h 11m 59.65± 0.86s
   20.628 S ± 8.7km   68.594 W ±12.5km
   DEPTH = 126.6 ± 13.7 km
   3.8mb (  1 obs.)
 CHILE-BOLIVIA BORDER REGION     (124)

ANT      3.50 209 eP     12 53.50   0.1
CNCB     3.84   9 P      12 59.00   0.4
CCH      3.97  36 P      13 04.70   4.5X
LPB      4.10   7 P      13 02.00   0.0
ZOBO     4.36   6 P      13 06.00   0.4
ARE      4.97 326 eP     13 13.00  -0.7
                 iS     13 59.50
SIV      8.50  58 P      14 00.90  -0.5
YKA     90.47 340 eP     24 47.80   0.2
        0.5s     0.40nm          3.8mb
      S.D. = 0.6  on   7 of   8 obs.
-------------------------------------
   JAN  08, 1991  04h 56m 09.66± 0.42s
   44.542 N ± 3.2km    7.186 E ± 5.3km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                  (545)
      ML 2.2 (LDG), 2.0 (GEN).

PZZ      0.07 239 P      56 12.28   0.1
                 S      56 14.33
BHB      0.30  10 P      56 15.56  -0.5
                 S      56 20.07
STV      0.31 161 P      56 15.66  -0.6
                 S      56 20.07
ENR      0.36 152 P      56 16.38  -0.7
                 S      56 21.40
RRL      0.47 323 P      56 18.43  -0.9
ROB      0.55 116 P      56 20.27  -0.5
SBF      0.70 165 Pg     56 24.10   0.5
                 Sg     56 32.40
LPG      1.00 342 Pg     56 28.70  -0.2
                 Sg     56 42.60
LPL      1.03 342 Pg     56 28.80  -0.4
                 Sg     56 43.00
FRF      1.05 202 Pg     56 28.80  -0.7
                 Sg     56 43.20
LRG      1.24 209 Pg     56 32.00  -0.7
                 Sg     56 49.40
      S.D. = 0.5  on  11 of  11 obs.
-------------------------------------
%  JAN  08, 1991  05h 23m 29.37± 1.05s
   38.949 N ± 9.9km   28.977 E ±11.1km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
```

08d 05h

MD 2.8 (ISK).

DST	0.71	338	iPg	23 41.60	-1.8
			eSg	23 53.00	
KHL	0.76	145	iPg	23 43.90	-0.3
ALT	0.89	83	iPg	23 46.80	0.3
			iSg	24 00.30	
KCT	1.38	340	ePn	23 55.00	0.3
IZI	1.44	15	ePn	23 55.00	-0.5
BNT	1.63	330	ePn	23 59.00	0.9
EDC	1.64	329	ePn	23 59.00	0.7
YLV	1.64	11	iPn	23 59.00	0.5

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

% JAN 08, 1991 05h 27m 05.96± 0.82s
30.534 S ± 9.3km 117.206 E ± 7.2km
DEPTH = 10.0km (geophysicist)
WESTERN AUSTRALIA (590)

BAL	0.44	260	iPd	27 13.60	-1.3
KLB	1.16	156	iPd	27 29.20	1.6
			eS	27 43.00	
MUN	1.67	210	iPd	27 35.40	0.0
			eS	27 54.90	
MRWA	1.68	321	eP	27 37.30	1.8
			eS	27 58.70	
NWAO	2.39	179	eP	27 45.20	-0.5
			eS	28 17.80	
COOL	3.41	97	eP	28 01.00	0.7
			eS	28 41.30	
WARB	9.37	65	eP	29 23.00	-1.1
	0.2s		2.00nm		5.2mb X
			eS	31 04.20	
FORR	9.39	95	eP	29 23.00	-1.2
	0.4s		3.00nm		5.0mb X
			eS	31 03.70	
MBL	9.63	15	eP	29 24.50	-3.1X
	0.3s		1.00nm		4.7mb X
			eS	31 06.30	

S.D. = 1.5 on 8 of 9 obs.

% JAN 08, 1991 05h 45m 41.97± 0.90s
30.592 S ± 9.2km 117.120 E ± 7.9km
DEPTH = 10.0km (geophysicist)
WESTERN AUSTRALIA (590)

BAL	0.36	268	iPd	45 48.60	-0.7
KLB	1.14	151	eP	46 04.30	1.0
			eS	46 18.70	
MUN	1.59	209	iPd	46 10.40	0.2
			eS	46 30.00	
MRWA	1.68	324	eP	46 12.40	0.8
			eS	46 34.60	
NWAO	2.33	178	eP	46 20.50	-0.4
			eS	46 52.60	
COOL	3.48	96	eP	46 36.30	-0.9
			eS	47 16.40	
WARB	9.47	65	eP	47 58.30	-3.1X
	0.2s		1.00nm		4.9mb X
			eS	50 39.50	

S.D. = 1.1 on 6 of 7 obs.

? JAN 08, 1991 05h 58m 30.00± 1.08s
40.974 N ± 8.0km 22.425 E ± 9.6km
DEPTH = 10.0km (geophysicist)
GREECE (364)

GRG	0.02	225	iPd	58 32.18	0.2
			eS	58 33.70	
VAY	0.36	18	iPg	58 37.00	-0.5
KNT	0.40	62	iPd	58 38.90	0.6
			iS	58 45.30	
THE	0.53	130	ePc	58 40.42	-0.4

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

? JAN 08, 1991 06h 42m 04.22± 6.22s
0.024 S ±19.7km 79.903 W ±47.9km
DEPTH = 10.0km (geophysicist)
ECUADOR (107)

GGP	1.32	97	eP	42 28.40	-0.5
			iS	42 57.00	
YANA	1.33	94	eP	42 28.50	-0.6
			S	42 52.00	
COTA	1.61	77	P	42 34.20	1.0
			eS	43 03.00	
VC1	1.62	112	P	42 33.80	0.5
			eS	43 04.50	
CAYA	1.92	87	P	42 39.20	1.4
CUMC	2.25	64	ePc	42 43.50	0.9
ANGL	2.39	99	eP	42 43.00	-1.4
PURC	4.24	57	eP	43 11.40	0.6
SALC	4.38	47	eP	43 09.98	-2.4X
SILC	4.47	53	eP	43 13.65	-0.2
ANCC	4.64	41	eP	43 11.48	-4.7X
HOOC	4.77	43	ePc	43 13.94	-4.1X
DIAC	4.96	48	eP	43 19.07	-1.6
			eS	44 18.90	
CLMC	5.12	41	eP	43 18.75	-4.2X
BUGC	5.33	43	eP	43 23.63	-2.3X
HOBC	5.75	41	eP	43 27.37	-4.5X
			eS	44 35.10	

S.D. = 1.2 on 10 of 16 obs.

& JAN 08, 1991 07h 11m 05.47s
59.724 N 151.373 W
DEPTH = 47.5km
KENAI PENINSULA, ALASKA (14)
<AEIC>.

HOM	0.15	244	iP	11 13.11	-0.2
			eS	11 19.37	
CNPM	0.21	161	iP	11 13.01	-0.7
			eS	11 19.40	
BRLK	0.25	81	iP	11 13.59	-0.4
NNL	0.32	7	iP	11 15.19	0.6
XLV	0.32	213	iP	11 13.55	-1.1
			eS	11 20.27	
INE	0.92	292	iP	11 21.20	-1.1
			eS	11 33.86	
OPT	0.94	266	iP	11 21.80	-0.8
			eS	11 35.29	
SLKM	0.98	36	eP	11 22.40	-0.6
RED	0.99	315	eP	11 22.50	-0.8
RDT	1.00	329	eP	11 22.51	-0.9
			iS	11 36.48	
RSO	1.01	318	eP	11 23.01	-0.7
			eS	11 37.07	
RS2	1.02	318	eP	11 23.08	-0.7
REF	1.02	320	eP	11 23.00	-0.7
			eS	11 36.44	
NKA	1.02	4	iP	11 25.06	1.4
SEW	1.04	68	eP	11 23.05	-0.8
RDN	1.05	319	eP	11 23.37	-0.9
AUE	1.08	251	iP	11 23.80	-0.7
			eS	11 38.39	
AUP	1.10	252	iP	11 24.31	-0.6
			eS	11 39.31	
AUH	1.11	252	eP	11 24.42	-0.6
AUI	1.12	250	eP	11 24.21	-0.8
NCT	1.15	318	eP	11 24.76	-0.7
SYI	1.23	206	iP	11 25.30	-1.3
PDB	1.43	274	eP	11 28.20	-1.1
			eS	11 45.93	
SPU	1.50	347	iP	11 29.85	-0.6
CKL	1.55	342	eP	11 30.55	-0.7
MCNL	1.61	252	eP	11 31.09	-0.8
			eS	11 51.68	
CGLM	1.62	349	iP	11 31.83	-0.3
BGL	1.62	342	eP	11 31.86	-0.4
NCG	1.73	347	eP	11 33.44	-0.3
PMS	1.77	30	eP	11 34.05	-0.2
SUA	1.77	10	eP	11 34.16	-0.2
LTI	1.80	78	eP	11 32.64	-2.0
MTU	1.90	80	eP	11 35.37	-0.6
KNIM	1.93	69	eP	11 34.21	-2.2
PWA	2.07	20	eP	11 38.55	0.2
PLRM	2.18	30	eP	11 38.83	-1.0
KNK	2.22	39	eP	11 39.38	-1.2
SKT	2.27	358	eP	11 41.18	0.0
GHO	2.38	29	eP	11 41.98	-0.9
GLI	2.43	60	eP	11 40.36	-3.1
VZW	2.74	59	eP	11 45.31	-2.8
VLZ	2.87	58	eP	11 47.34	-2.4
KLU	3.22	54	eP	11 53.02	-1.8
TOA	3.49	45	eP	11 57.43	-1.2

44 obs. associated

& JAN 08, 1991 08h 51m 28.60s
33.680 N 116.030 W
DEPTH = 11.0km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 3.4 (PAS).

PLM	0.77	245	iPc	51 43.40	-0.2
PEC	0.97	283	iPc	51 46.20	-0.7
IKP	1.03	184	iPc	51 46.60	-1.4
RVR	1.16	286	eP	51 49.50	-0.7
GLA	1.19	122	eP	51 50.70	0.0
CPE	1.20	229	eP	51 50.20	-0.7

6 obs. associated

JAN 08, 1991 09h 05m 29.97± 0.48s
51.884 N ±11.3km 178.023 E ± 4.8km
DEPTH = 33.0km (normal)
4.5mb (17 obs.)
RAT ISLANDS, ALEUTIAN ISLANDS (6)
ML 4.1 (PMR).

SMY	2.55	291	eP	06 10.80	0.9
ADK	3.28	88	eP	06 20.10	-0.1
SVW	17.12	47	eP	09 31.60	3.6X
TTA	17.68	41	eP	09 36.10	1.0
KDC	17.88	59	ePc	09 36.70	-0.7
PMS	19.96	49	eP	10 01.60	-0.3
IMA	20.10	34	eP	10 04.20	0.9
PMR	20.25	49	eP	10 07.00	2.3
TOA	21.73	48	eP	10 20.00	0.0
KLU	21.73	50	eP	10 22.00	2.0
FBA	21.80	40	eP	10 19.70	-0.9
	0.8s		15.52nm		4.5mb
INK	28.20	36	eP	11 20.50	-0.6
MBC	33.89	22	eP	12 12.00	0.9
	1.0s		6.00nm		4.5mb
YKA	36.32	46	eP	12 32.00	0.1
	0.7s		2.80nm		4.3mb
NEW	40.55	68	eP	13 06.90	-0.6
	0.7s		6.80nm		4.5mb
BONR	45.74	82	eP	13 50.00	0.0
TNP	46.32	81	eP	13 54.30	-0.2
	0.9s		6.25nm		4.6mb
BTO	46.73	284	eP	13 59.30	1.8
BW06	48.02	71	eP	14 07.00	-0.9
	0.8s		2.62nm		4.3mb
PLM	49.63	85	eP	14 20.00	-0.3
PV09	50.95	75	eP	14 29.20	-1.3
GOL	52.41	71	eP	14 41.40	0.0
	0.6s		1.54nm		4.1mb
LZH	53.34	284	eP	14 46.00	-2.2
	1.6s		18.00nm		4.8mb
GTA	53.54	289	eP	14 49.10	-0.5
	1.0s		10.00nm		4.8mb
FRB	53.61	30	eP	14 50.00	0.4
ALQ	54.92	76	e(P)	15 00.00	0.1
	0.8s		0.93nm		3.9mb
CD2	56.94	279	eP	15 13.80	-0.4
WMQ	57.39	301	P	15 17.20	-0.2
KAF	64.16	346	eP	16 01.80	-1.0
	0.5s		2.50nm		4.6mb
NUR	65.94	346	iP	16 13.80	-0.5
	0.7s		13.30nm		5.1mb
NB2	66.93	353	P	16 19.80	-0.9
	0.9s		5.70nm		4.7mb
HFS	67.62	352	eP	16 23.10	-1.9
	0.4s		1.00nm		4.3mb
GUN	69.83	290	P	16 39.60	0.1
KKN	70.27	290	P	16 42.40	0.3
PKI	70.35	290	P	16 42.20	-0.5
GKN	70.48	291	P	16 43.40	0.1
DMN	70.50	290	P	16 43.20	-0.4
WRA	81.05	221	P	17 45.00	2.2
	0.5s		1.70nm		4.3mb
WRA	81.05	221	P	17 48.00	5.2X
	1.1s		1.40nm		3.9mb
HYB	82.18	288	eP	17 50.00	1.1
GBA	85.83	287	P	18 13.00	5.6X
	1.0s		15.80nm		5.2mb

S.D. = 1.0 on 38 of 41 obs.

& JAN 08, 1991 09h 21m 48.05s
63.838 N 149.114 W
DEPTH = 117.8km
CENTRAL ALASKA (1)
<AEIC>.

MCK	0.13	143	eP	22 04.26	1.6
			eS	22 16.36	
BWN	0.37	335	eP	22 04.97	-0.3
RND	0.45	165	iP	22 05.30	-0.5
NEA	0.74	1	eP	22 09.03	1.2
HUR	0.90	195	eP	22 08.88	-0.3

```
CCB      0.99   35 iP     22 09.54   -0.6
HDA      1.11   58 eP     22 10.79   -0.5
MDM      1.19   18 eP     22 11.72   -0.5
FBA      1.21   28 eP     22 11.85   -0.5
DDM      1.44   91 eP     22 14.63   -0.5
                   eS     22 34.72
CUT      1.53  201 eP     22 15.33   -0.7
                   eS     22 38.22
PAX      1.86  116 eP     22 20.45    0.3
GHO      2.08  178 eP     22 22.45   -0.5
SDG      2.09  127 eP     22 22.82   -0.2
SKT      2.17  212 eP     22 22.58   -1.5
TOA      2.20  141 eP     22 22.86   -1.6
PWA      2.22  189 eP     22 25.00    0.3
PLRM     2.25  180 eP     22 25.07    0.0
KNK      2.45  173 eP     22 27.23   -0.5
TZL      2.47  135 eP     22 29.39    1.5
SUA      2.50  198 eP     22 29.27    0.8
PMS      2.61  185 eP     22 29.40   -0.4
KLU      2.78  147 eP     22 30.84   -1.2
NCG      2.82  211 eP     22 31.42   -1.2
CGLM     2.87  209 eP     22 32.59   -0.7
SPU      2.99  208 eP     22 34.18   -0.8
BGL      3.00  212 eP     22 35.18    0.2
VLZ      3.01  153 eP     22 34.03   -1.0
GLI      3.12  162 eP     22 34.95   -1.5
NKA      3.26  199 eP     22 39.72    1.3
SLKM     3.38  189 eP     22 39.71   -0.4
GLB      3.43  132 eP     22 40.35   -0.4
KNIM     3.56  169 eP     22 39.61   -2.9
RDT      3.62  207 eP     22 43.01   -0.3
RDN      3.75  209 eP     22 44.07   -1.1
LTI      3.86  171 eP     22 44.73   -1.8
MTU      3.93  169 eP     22 51.32    3.9
       37 obs. associated
-----------------------------------------
   JAN  08, 1991  09h 45m 21.68± 1.95s
    2.420 N ± 7.7km  128.176 E ± 9.3km
   DEPTH =  50.6 ± 17.2 km
    5.0mb ( 14 obs.)
 HALMAHERA                          (267)

DAV      5.31  331 eP     46 40.80    0.3
QIS     25.44  154 eP     50 46.00   -0.6
ASPA    26.52  168 eP     50 56.00   -0.6
        0.9s      7.30nm          4.3mb
     Z  23s      0.30um          3.8MszX
                  ipP    51 21.20 117kmX
                  eS     55 31.30
WHN     30.88  336 Pc     51 41.00    5.4X
CHG     32.93  302 eP     51 55.00    1.2
CHTO    32.93  302 eP     51 52.00   -1.7
        0.7s      5.08nm          4.5mb
MAT     35.20   14 eP     52 09.00   -4.0X
        0.9s     13.45nm          4.9mb
XAN     36.23  332 P      52 20.60   -1.3
CD2     36.55  323 eP     52 23.80   -0.8
TIY     37.98  340 eP     52 39.00    2.4
ADE     38.48  166 iPd    52 41.80    1.1
BJI     39.00  345 eP     52 43.50   -1.4
LZH     40.36  329 iPd    52 57.00    0.6
        1.5s     88.00nm          5.3mb
     Z  25s      0.26um          4.0MszX
                  pP     53 09.50   46kmX
                  sP     53 13.50
MDJ     42.04    2 eP     53 09.50   -0.4
GTA     44.96  329 Pd     53 33.60   -0.2
        1.0s     10.00nm          4.6mb
GUN     47.66  306 P      53 55.60    0.0
        0.6s     27.00nm          5.4mb
PKI     47.90  306 P      53 57.40   -0.1
        0.6s     11.00nm          5.1mb
KKN     48.09  306 P      53 58.40   -0.5
        0.8s     28.00nm          5.3mb
DMN     48.16  306 P      54 00.20    0.8
        0.8s     40.00nm          5.5mb
GKN     48.70  306 P      54 02.80   -0.6
        0.8s     30.00nm          5.4mb
HYB     50.92  290 eP     54 21.00    0.6
        1.0s     25.00nm          5.2mb
KOD     50.94  281 eP     54 20.50   -0.4
GBA     51.35  285 P      54 23.90    0.3
WMO     54.62  325 iPc    54 47.50   -0.1
POO     55.52  291 eP     54 50.50   -4.0X
MAIO    71.45  307 eP     56 40.00    0.8
TTA     81.41   27 eP     57 35.20    0.7
KDC     82.27   32 eP     57 39.10    0.2

IMA     82.99   24 ePd     57 42.90    0.2
        0.6s       3.00nm          4.5mb
PMR     84.40   28 eP      57 49.30   -0.4
        0.9s      10.40nm          4.9mb
TOA     85.83   28 eP      57 57.70    0.7
INK     90.84   22 eP      58 19.00   -1.6
MBC     92.90   13 eP      58 31.00    1.0
YKA    100.08   25 ePdiff59 02.50   -0.4
        0.8s       0.50nm          4.1mb
      S.D. = 1.0  on  31 of  34 obs.
-----------------------------------------
*  JAN  08, 1991  10h 00m 43.79± 1.22s
   13.313 N ± 6.2km   59.915 W ±13.1km
   DEPTH =  29.5 ±  5.1 km
 WINDWARD ISLANDS                  ( 95)
     ML 3.9 (FDF). MD 3.9 (TRN).

SOA      1.20  273 eP     01 04.82    0.2
                   eS     01 18.52
SLB      1.21  295 eP     01 04.40   -0.4
                   eS     01 17.95
SVV      1.27  270 eP     01 05.48   -0.1
                   eS     01 20.00
SVB      1.30  268 eP     01 05.91   -0.2
                   eS     01 20.87
MVM      1.56  322 eP     01 09.52   -0.3
                   S      01 28.30
BIM      1.64  317 eP     01 10.78   -0.2
                   S      01 30.20
CRM      1.73  326 eP     01 12.31    0.0
                   S      01 32.80
FDF      1.85  320 eP     01 14.02   -0.1
                   S      01 36.00
BOT      2.27  200 eP     01 20.14    0.1
                   eS     01 52.95
MDN      2.46  324 eP     01 23.68    1.0
                   eS     02 08.75
BBL      2.67  326 eP     01 25.99    0.3
                   S      01 56.10
DOG      3.17  329 eP     01 33.60    0.8
SFG      3.18  337 eP     01 32.00   -0.9
DEG      3.18  340 eP     01 32.37   -0.7
PAG      3.20  328 eP     01 33.60    0.4
                   S      02 10.30
SEG      3.44  334 eP     01 36.80    0.2
      S.D. = 0.5  on  16 of  16 obs.
-----------------------------------------
&  JAN  08, 1991  10h 24m 53.15s
   60.578 N          150.743 W
   DEPTH =  42.5km
 KENAI PENINSULA, ALASKA           ( 14)
     <AEIC>. ML 3.0 (PMR).

SLKM     0.27  105 iP     25 01.23   -0.1
NKA      0.29  304 iP     25 03.06    1.5
NNL      0.60  207 iP     25 05.54    0.1
SEW      0.80  126 eP     25 07.00   -1.1
BRLK     0.82  185 eP     25 07.52   -0.9
RDT      0.82  270 iP     25 07.60   -0.9
                   eS     25 19.56
SPU      0.88  314 iP     25 08.67   -0.6
                   eS     25 20.98
PMS      0.88   40 iPc    25 08.80   -0.5
SUA      0.89  360 iP     25 08.87   -0.6
CGLM     0.96  320 iP     25 09.91   -0.5
REF      0.97  266 iP     25 09.86   -0.9
CKL      1.00  309 iP     25 10.20   -0.8
RDN      1.00  267 iP     25 09.93   -1.1
RSO      1.00  264 iP     25 10.27   -0.9
RS2      1.00  264 iP     25 10.32   -0.8
RED      1.02  262 iP     25 10.25   -1.0
HOM      1.03  206 eP     25 10.87   -0.4
                   eS     25 24.45
BGL      1.06  311 iP     25 11.19   -0.7
NCG      1.08  321 iP     25 11.68   -0.4
NCT      1.08  270 iP     25 11.23   -0.9
                   eS     25 26.10
CNPM     1.08  193 iP     25 11.13   -1.0
                   eS     25 25.30
PWA      1.16   21 iPd    25 13.10    0.0
XLV      1.23  204 eP     25 13.13   -1.0
INE      1.27  247 iP     25 13.60   -1.2
                   eS     25 30.12
PLRM     1.28   37 eP     25 14.29   -0.6
PMR      1.28   37 ePd    25 14.40   -0.5
KNK      1.39   52 iP     25 15.79   -0.7
SKT      1.46  345 iP     25 17.16   -0.3

GHO      1.49   36 eP     25 17.24   -0.7
KNIM     1.51   97 iP     25 15.79   -2.3
LTI      1.54  109 eP     25 16.18   -2.3
MTU      1.65  110 eP     25 18.24   -1.9
AUE      1.80  228 eP     25 21.26   -1.0
AUP      1.82  229 eP     25 22.00   -0.6
GLI      1.82   79 eP     25 19.91   -2.6
AUH      1.82  229 eP     25 22.32   -0.3
AUI      1.84  228 eP     25 22.08   -0.7
CUT      1.85    7 eP     25 22.54   -0.4
PDB      1.90  247 eP     25 22.52   -1.1
VZW      2.11   75 eP     25 24.52   -2.2
SYI      2.14  204 eP     25 25.71   -1.4
VLZ      2.23   74 eP     25 26.31   -2.0
SVW      2.45  285 eP     25 30.00   -1.5
KLU      2.52   67 iP     25 30.80   -1.8
TOA      2.68   53 eP     25 34.50   -0.4
KDC      2.98  198 eP     25 36.70   -2.3
TTA      3.44  316 eP     25 45.00   -0.7
GLB      3.48   73 eP     25 43.55   -2.8
BALM     4.14   80 eP     25 51.22   -4.4
FBA      4.55   16 eP     25 59.20   -2.0
IMA      5.67  348 eP     26 16.40   -0.8
       51 obs. associated
-----------------------------------------
&  JAN  08, 1991  10h 34m 53.70s
   34.000 N          117.583 W
   DEPTH =   6.0km  (geophysicist)
 SOUTHERN CALIFORNIA                ( 43)
     <PAS-P>. ML 2.7 (PAS). Felt in
     the epicentral area.

PEC      0.37  107 iPc    35 00.70   -0.4
PLM      0.88  137 eP     35 10.00   -1.1
ABL      1.60  303 eP     35 22.70   -0.1
GLA      2.49  112 e(P)   35 40.00    4.5
       4 obs. associated
-----------------------------------------
%  JAN  08, 1991  10h 48m 53.81± 0.92s
   44.326 N ±10.8km    8.251 E ± 7.9km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                     (545)
     ML 2.0 (GEN).

FIN      0.12  195 P      48 56.86    0.0
                   S      48 59.06
ROB      0.28  264 P      48 59.72    0.1
                   S      49 00.83
PCP      0.30   44 P      49 00.13    0.0
                   S      49 04.75
ENR      0.61  261 P      49 05.77   -0.3
                   S      49 14.18
STV      0.67  263 P      49 07.41    0.2
                   S      49 16.30
      S.D. = 0.3  on   5 of   5 obs.
-----------------------------------------
*  JAN  08, 1991  11h 37m 35.09± 0.57s
   15.848 N ±10.7km  147.242 E ±10.5km
   DEPTH =  33.0km  (normal)
    4.3mb (  4 obs.)
 MARIANA ISLANDS REGION             (215)

PJG      3.21  226 eP     38 24.30   -0.1
GUA      3.22  225 eP     38 24.50    0.0
                   eS     39 01.20
GYA     39.14  293 P      45 03.00    1.3
LZH     43.48  306 eP     45 37.50    0.2
        0.8s     22.00nm          5.0mb
CHTO    46.09  281 iP     45 58.80    0.6
        0.8s      1.70nm          4.0mb
GTA     47.46  309 eP     46 09.40    0.5
WMO     57.29  312 P      47 22.60    0.4
GUN     57.68  293 P      47 26.00    0.5
PKI     58.11  293 P      47 28.40   -0.1
KKN     58.22  293 P      47 29.00   -0.1
DMN     58.38  293 P      47 29.60   -0.7
GKN     58.78  293 P      47 32.20   -0.7
INK     71.41   23 ePd     48 52.90   -0.8
MBC     75.53   14 eP      49 21.00    3.4X
YKA     79.81   28 eP      49 41.00   -0.4
        0.6s      1.00nm          4.0mb
SES     85.21   39 eP      50 11.00    1.4
NB2     95.74  340 P       50 58.10   -0.9
        0.9s      2.40nm          4.6mb
KIC    144.55  306 PKPc    57 09.38   -1.5
        0.5s      7.00nm
TIC    144.59  307 PKP     57 09.52   -1.4
```

08d 11h

0.5s 7.50nm
LIC 144.86 307 PKP 57 10.30 -1.1
0.6s 12.00nm
ZOBO 146.04 96 PKP 57 15.00 1.0
LPB 146.08 96 PKP 57 17.00 3.1X
CNCB 146.21 97 PKP 57 16.00 1.7
S.D. = 1.0 on 21 of 23 obs.

% JAN 08, 1991 11h 49m 05.55± 1.40s
45.178 N ±11.8km 2.687 E ±11.6km
DEPTH = 10.0km (geophysicist)
FRANCE (53B)
ML 2.4 (LDG).

CAF 0.51 241 Pg 49 14.60 -1.3
Sg 49 23.60
RJF 0.84 279 Pg 49 21.80 0.1
Sg 49 35.30
MAF 1.05 355 Pg 49 23.20 -2.1
Sg 49 39.60
TCF 1.16 343 Pg 49 27.20 0.0
Sg 49 43.20
LPO 1.17 246 Pg 49 27.60 0.1
Sg 49 43.20
LSF 1.34 323 Pg 49 31.40 1.1
Sg 49 49.60
BGF 1.39 5 Pg 49 29.80 -1.1
Sg 49 47.20
LFF 1.40 261 Pg 49 32.20 1.1
Sg 49 52.00
SMF 1.67 28 Pg 49 33.00 -2.0
Sg 49 54.10
AVF 1.68 16 Pg 49 35.60 0.5
Sg 49 56.00
SSF 1.97 17 Pg 49 40.60 1.3
Sg 50 04.40
LBF 2.02 26 Pg 49 41.20 1.1
Sg 50 05.10
LOR 2.24 21 Pg 49 44.40 1.1
Sg 50 12.00
S.D. = 1.4 on 13 of 13 obs.

JAN 08, 1991 13h 47m 34.18± 0.58s
40.733 N ± 4.7km 22.067 E ± 5.1km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 2.3 (SKO).

GRG 0.34 48 ePd 47 41.40 0.2
eS 47 47.04
THE 0.69 98 ePc 47 48.56 0.7
eS 47 59.20
VAY 0.70 33 iPg 47 47.20 -0.8
iSg 47 56.70
LIT 0.71 153 iPc 47 47.94 -0.2
iS 47 59.80
KNT 0.76 55 ePd 47 48.84 -0.2
eS 47 59.88
OHR 1.03 292 iPg 47 53.50 -0.2
iSg 48 09.00
Lg 48 11.80
LR 48 13.90
SRS 1.22 71 ePc 47 57.12 0.3
SKO 1.33 339 ePg 47 59.20 0.6
iSg 48 15.60
PAIG 1.47 123 iPc 48 00.00 -0.7
eS 48 20.36
AGG 1.72 173 ePd 48 04.76 0.4
eS 48 28.60
S.D. = 0.6 on 10 of 10 obs.

? JAN 08, 1991 14h 47m 04.63± 4.53s
34.855 S ±16.4km 179.264 W ±54.4km
DEPTH = 33.0km (normal)
3.8mb (1 obs.)
SOUTH OF KERMADEC ISLANDS (179)

HBZ 3.37 215 eP 47 56.60 0.4
PUZ 3.78 211 P 48 02.10 0.1
S 48 46.80
NOZ 4.34 209 eP 48 09.50 -0.4
WLZ 5.11 233 eP 48 20.80 -0.1
WRA 43.41 278 P 55 06.00 0.0
0.4s 0.80nm 3.8mb
S.D. = 0.4 on 5 of 5 obs.

? JAN 08, 1991 15h 41m 52.15± 6.32s
2.804 N ±18.4km 75.044 W ±51.3km
DEPTH = 33.0km (normal)
COLOMBIA (103)
MD 3.4 (UVC).

DIAC 1.25 293 iPd 42 12.92 -0.6
eS 42 30.30
SILC 1.30 265 eP 42 13.88 -0.6
eS 42 32.10
PURC 1.40 250 iPd 42 16.28 0.2
eS 42 36.30
BUGC 1.62 312 eP 42 19.02 0.1
HOQC 1.72 293 eP 42 20.68 0.2
eS 42 44.10
CLMC 1.86 305 eP 42 21.99 -0.4
eS 42 46.40
HOBC 1.89 325 eP 42 22.67 -0.1
ANCC 1.95 291 eP 42 24.44 0.8
eS 42 50.70
S.D. = 0.6 on 8 of 8 obs.

? JAN 08, 1991 15h 45m 49.47± 1.08s
22.905 N ±40.9km 94.827 E ±34.5km
DEPTH = 33.0km (normal)
BURMA (296)

SHL 3.77 315 eP 46 47.00 0.1
iS 47 35.00
CHG 5.60 136 ePg 47 35.10 22.4X
eSg 48 48.00
CHTO 5.60 136 ePn 47 12.70 0.0
ePg 47 31.60
GUN 9.50 303 P 48 07.00 -0.4
PKI 9.71 301 P 48 10.80 0.5
KKN 9.91 301 P 48 12.80 -0.1
DMN 9.97 300 P 48 13.70 -0.1
GKN 10.51 301 P 48 21.20 0.0
S.D. = 0.3 on 7 of 8 obs.

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* JAN 08, 1991 15h 55m 38.86± 1.05s
34.073 N ±10.8km 137.049 E ± 8.2km
DEPTH = 340.5 ± 8.5 km
4.3mb (20 obs.)
NEAR S. COAST OF HONSHU, JAPAN (230)

MAT 2.64 21 iPd 56 34.80 0.1
eS 57 17.00
SNY 13.14 310 Pd 58 35.00 -0.5
1.0s 30.00nm 4.7mb
CN2 13.25 321 P 58 37.00 0.2
SSE 13.70 262 Pd 58 42.50 0.3
1.0s 17.00nm 4.4mb
BJI 17.68 296 eP 59 23.00 -1.3
1.0s 20.00nm 4.4mb
WHN 19.50 266 Pd 59 45.00 2.5
TIY 20.25 287 eP 59 51.00 1.0
HHC 21.29 296 P 00 00.80 0.8
XAN 23.28 278 P 00 18.60 -0.2
LZH 27.18 284 eP 00 53.00 -1.2
1.5s 27.00nm 4.4mb
GYA 27.25 262 P 00 53.40 -1.5
CD2 28.19 273 Pd 01 01.60 -1.5
GTA 30.16 291 Pd 01 19.80 -0.6
0.8s 4.00nm 3.8mb
CHG 37.11 256 eP 02 20.00 0.6
0.8s 8.40nm 4.1mb
CHTO 37.11 256 eP 02 19.80 0.4
0.7s 6.67nm 4.1mb
GUN 43.92 276 P 03 17.20 2.1
0.7s 18.00nm 4.4mb
PKI 44.43 276 P 03 18.40 -0.7
0.8s 13.00nm 4.2mb
KKN 44.46 276 P 03 18.80 -0.4
0.8s 21.00nm 4.4mb
DMN 44.67 276 P 03 20.40 -0.5
GKN 44.91 277 P 03 22.40 -0.3
0.6s 20.00nm 4.5mb
WRA 53.78 183 P 04 28.00 -1.2
0.3s 11.60nm 4.7mb
GBA 57.41 265 P 04 56.00 0.9
0.6s 4.30nm 4.1mb
INK 58.62 26 iPc 05 02.40 -0.3
MBC 60.35 16 ePc 05 14.20 -0.2
0.5s 7.00nm 4.4mb
SOD 66.29 337 iP 05 52.60 -0.2
YKA 68.12 28 eP 06 03.70 -0.5
1.1s 4.10nm 4.1mb
KAF 69.27 332 iP 06 10.40 -0.8
0.5s 3.30nm 4.3mb
NUR 70.85 331 eP 06 20.00 -0.6
HFS 75.26 334 eP 06 45.20 -0.9
0.4s 1.90nm 4.2mb
NB2 75.49 336 P 06 46.90 -0.5
0.9s 4.20nm 4.2mb
LRM 78.74 42 ePc 07 06.70 1.0
FRB 80.41 11 eP 07 15.00 1.2
PRU 82.07 327 eP 07 23.80 1.1
KHC 83.12 327 eP 07 29.00 0.9
LPL 88.92 328 eP 07 56.70 0.2
0.7s 4.95nm 4.5mb
LPG 88.92 328 eP 07 56.80 0.1
0.9s 9.00nm 4.7mb
ZOBO 151.26 58 PKP 14 54.50 6.3X
S.D. = 1.0 on 36 of 37 obs.

JAN 08, 1991 16h 09m 30.63± 0.49s
5.365 N ± 7.6km 32.541 E ± 8.1km
DEPTH = 10.0km (geophysicist)
4.8mb (6 obs.)
SUDAN (557)
mbLg 4.7 (BUL).

AAE 7.17 59 eP 11 18.00 -0.4
NAI 7.85 147 iPc 11 30.00 2.2
S 13 12.00
LWI 8.43 206 iPd 11 35.00 -0.9
BCAO 13.99 267 iPc 12 48.90 -2.3
0.6s 6.00nm 4.6mb
iS 15 15.90
Lg 16 40.40
KRI 22.24 187 iPd 14 29.00 -0.5
eSn 18 28.00
eLg 20 54.00
PAIG 35.32 348 ePc 16 28.58 0.6
LIT 35.75 347 iPd 16 32.46 0.8
ALN 35.85 352 ePc 16 33.98 1.5
FNA 36.66 346 ePd 16 39.38 0.0
KIC 37.10 273 P 16 44.60 1.3
OHR 37.11 345 eP 16 44.70 1.5
TIC 37.37 274 P 16 47.20 1.5
0.8s 6.50nm 4.4mb
SKO 37.77 346 eP 16 47.00 -1.6
KHC 46.48 343 eP 18 00.00 0.2
1.1s 12.50nm 4.9mb
HYB 46.54 71 eP 18 01.50 0.9
GRF 47.70 341 eP 18 09.60 0.3
CLL 48.60 344 e(P) 18 17.00 0.7
GKN 54.25 59 P 18 58.00 -1.5
1.0s 26.00nm 5.2mb
DMN 54.56 60 P 19 01.20 -0.7
KKN 54.75 60 P 19 02.20 -1.1
1.0s 26.00nm 5.2mb
GUN 55.29 60 P 19 06.40 -1.0
NB2 57.82 348 P 19 23.10 -1.4
1.2s 6.90nm 4.6mb
S.D. = 1.3 on 22 of 22 obs.

& JAN 08, 1991 16h 12m 05.99s
63.204 N 150.576 W
DEPTH = 133.7km
CENTRAL ALASKA (1)
<AEIC>.

HUR 0.48 118 eP 12 25.11 -0.5
eS 12 40.08
RND 0.80 75 eP 12 27.20 -0.7
CUT 0.81 170 iP 12 27.61 -0.3
MCK 0.91 54 eP 12 28.11 -0.6
BWN 1.09 27 eP 12 29.97 -0.4
SKT 1.31 200 iP 12 32.04 -0.5
PWA 1.59 168 eP 12 35.51 -0.2
GHO 1.63 151 eP 12 35.79 -0.5
eS 12 58.38
SUA 1.75 183 eP 12 37.63 -0.1
PLRM 1.75 157 eP 12 36.31 -1.2
CCB 1.90 39 iP 12 37.95 -1.3
NCG 1.95 203 eP 12 39.35 -0.8
CGLM 2.02 200 eP 12 40.20 -0.7
PMS 2.02 166 eP 12 40.28 -0.6
MDM 2.04 29 iP 12 39.71 -1.4
KNK 2.05 150 eP 12 40.41 -0.8
BGL 2.12 204 eP 12 41.84 -0.4
SPU 2.14 200 eP 12 41.74 -0.7
CKL 2.18 203 eP 12 42.06 -0.8

TOA	2.31	117	eP	12	43.99	-0.6
PAX	2.34	93	eP	12	44.55	-0.3
NKA	2.49	188	eP	12	48.25	1.6
SLKM	2.71	176	eP	12	48.84	-0.8
KLU	2.77	126	eP	12	48.12	-2.3
RDT	2.78	199	eP	12	49.40	-1.1
GLI	2.85	143	eP	12	49.84	-1.6
NCT	2.88	204	eP	12	51.11	-0.7
VLZ	2.88	134	eP	12	49.39	-2.3
RDN	2.89	202	eP	12	51.12	-0.9
REF	2.91	201	eP	12	51.63	-0.7
RED	2.98	201	eP	12	52.66	-0.5
KNIM	3.17	154	eP	12	53.44	-2.1
MTU	3.52	155	eP	12	58.25	-1.9
GLB	3.62	116	eP	13	00.21	-1.3
CNPM	3.71	185	eP	13	01.46	-1.2
PDB	3.84	208	eP	13	03.63	-0.8

36 obs. associated

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* JAN 08, 1991 16h 57m 49.56± 0.69s
21.047 S ± 7.1km 178.864 W ±12.2km
DEPTH = 596.9 ± 8.9 km
4.3mb (8 obs.)
FIJI ISLANDS REGION (181)

SVA	3.86	319	ePc	59	13.80	-0.4
			eS	59	40.90	
MBU	4.65	330	iP	59	20.60	0.5
NDF	4.78	313	ePc	59	20.50	-0.5
DZM	13.71	263	iPc	00	47.80	2.6
PUZ	17.15	188	P	01	18.80	0.5
WLZ	17.41	195	P	01	22.80	2.1
NOZ	17.71	188	eP	01	24.30	0.7
NGZ	18.69	194	P	01	33.60	0.8
MNG	20.09	193	eP	01	44.30	-1.3
THZ	21.79	197	P	02	00.00	-1.1
KHZ	22.25	195	P	02	03.20	-1.8
LTZ	22.91	197	P	02	09.30	-1.9
PMG	34.69	284	iPd	03	51.50	-0.9
	1.0s		180.00nm			5.7mb X
OIS	38.75	263	iPc	04	25.30	-0.3
WRA	43.73	263	P	05	15.00	9.9X
	0.4s		1.50nm			3.9mb
MTN	48.36	271	eP	05	39.20	-1.3
	0.3s		26.00nm			5.2mb
SPA	69.08	180	eP	07	59.00	0.7
	0.9s		12.73nm			4.5mb
MAT	70.17	324	eP	08	03.00	-1.9
	1.0s		14.00nm			4.4mb
PLM	80.12	49	eP	09	00.80	0.9
CMB	80.41	43	eP	09	01.70	0.5
CN2	82.24	323	P	09	10.40	0.2
TNP	82.48	44	iPc	09	12.80	0.9
	0.9s		3.70nm			3.9mb
BJI	85.71	316	eP	09	27.50	0.2
PMR	85.74	14	eP	09	25.80	-1.1
TIY	87.04	312	eP	09	35.50	1.7
PNT	87.56	34	eP	09	36.00	0.1
XAN	87.82	308	P	09	38.00	0.5
ANMO	88.38	52	eP	09	40.10	-0.1
	1.0s		0.50nm			3.3mb X
FBA	88.95	13	iP	09	40.50	-1.4
	0.9s		5.10nm			4.4mb
CHTO	89.67	290	eP	09	47.20	1.0
	0.9s		9.80nm			4.7mb
BW06	89.92	44	iP	09	47.10	-0.1
	1.0s		2.20nm			4.0mb
INK	95.01	15	eP	10	08.50	-1.1
NB2	139.42	352	PKP	16	02.00	-8.9X
	0.8s		3.80nm			
HFS	139.94	350	ePKP	16	03.00	-8.8X
	0.3s		1.00nm			
EKA	145.61	4	PKP	16	23.00	1.3
	0.9s		14.30nm			
KRA	147.45	337	ePKP	16	28.20	3.4X
			e	16	32.40	
KSP	147.96	342	iPKPc	16	29.90	4.3X
			e	16	34.50	
MLR	148.23	326	ePKPd	16	33.80	7.4X
CLL	148.40	346	iPKPc	16	30.80	4.6X
	1.0s		26.00nm			
			i	16	35.80	
BRG	148.58	344	iPKP	16	30.00	3.5X
	1.2s		23.00nm			
			i	16	46.10	
PRU	149.23	343	iPKPc	16	32.60	5.1X
			e	16	38.50	
MOX	149.33	347	ePKP	16	33.00	5.3X
	1.7s		34.00nm			
KHC	150.27	343	PKP	16	35.00	5.8X
			e	16	44.00	
GRF	150.31	347	ePKP	16	35.60	6.4X
			e	16	44.50	
ABH	150.78	351	ePKP	16	36.22	6.3X

S.D. = 1.2 on 32 of 45 obs.

% JAN 08, 1991 18h 03m 42.24± 0.72s
40.264 N ± 8.1km 29.230 E ± 5.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

IZI	0.20	69	iPg	03	46.60	-0.1
YLV	0.32	20	iPg	03	49.10	0.2
			iSg	03	52.60	
HRT	0.65	31	iPg	03	55.10	-0.2
KCT	0.67	269	ePg	03	55.00	-0.6
DST	0.80	215	ePg	03	58.00	0.1
			eSg	04	09.00	
BNT	1.01	276	iPn	04	01.70	0.4
EDC	1.05	275	ePn	04	01.50	-0.5
KGT	1.48	278	iPn	04	09.60	0.6

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

% JAN 08, 1991 18h 34m 16.29± 1.00s
42.077 N ± 7.0km 19.285 E ± 8.9km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.2 (TTG).

ULC	0.12	193	iPgd	34	19.20	-0.1
			iSg	34	21.50	
TTG	0.35	357	ePg	34	23.30	-0.2
			iSg	34	30.00	
BDV	0.40	301	ePg	34	24.50	0.1
			eSg	34	31.60	
HCY	0.69	303	ePg	34	30.00	0.0
			eSg	34	41.00	
IVA	0.91	30	ePg	34	34.00	0.2
			eSg	34	47.00	

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

? JAN 08, 1991 19h 00m 24.57± 5.94s
39.732 N ±25.2km 26.245 E ±43.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.0 (ISK).

EZN	0.11	33	iPg	00	26.50	-0.9
			iSg	00	29.50	
KGT	1.08	48	iPn	00	45.10	0.1
EDC	1.39	63	ePn	00	50.00	0.1
BNT	1.43	64	iPn	00	50.60	0.0
DST	1.84	93	ePn	00	56.50	-0.1
DMK	2.38	28	ePn	01	05.00	0.7

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

JAN 08, 1991 19h 24m 34.80± 0.51s
41.086 N ± 4.3km 22.378 E ± 4.2km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.2 (SKO).

GRG	0.13	172	eP	24	38.16	0.2
VAY	0.28	32	iPg	24	40.20	-0.4
			iSg	24	44.30	
KNT	0.40	79	eP	24	42.96	0.0
			eS	24	48.88	
THE	0.64	135	iP	24	47.02	-0.5
			iS	24	55.60	
SOH	0.79	109	eP	24	49.68	-0.4
FNA	0.82	249	iP	24	50.52	-0.1
			eS	25	01.08	
SRS	0.92	88	iP	24	52.04	-0.3
			eS	25	04.64	
LIT	0.99	175	eP	24	53.60	0.0
			eS	25	10.12	
SKO	1.13	322	ePg	24	56.00	0.0
			eSg	25	11.00	
MMB	1.13	63	ePgc	24	57.00	0.9
PAIG	1.53	139	iP	25	02.76	0.7
			eS	25	24.48	
VTS	1.63	22	ePg	25	08.00	4.3X
RZN	1.86	70	iP	25	10.00	2.9X
PGB	1.98	42	ePg	25	14.00	5.2X
KDZ	2.36	75	ePg	25	20.00	5.9X

S.D. = 0.5 on 11 of 15 obs.

% JAN 08, 1991 20h 16m 35.81± 0.92s
3.102 N ± 4.8km 76.725 W ±11.3km
DEPTH = 10.0km (geophysicist)
COLOMBIA (103)
MD 2.7 (UVC).

SALC	0.13	167	iPd	16	39.99	0.9
			eS	16	42.90	
HOOC	0.37	14	iPc	16	44.22	0.6
			eS	16	50.20	
ANCC	0.43	341	iPc	16	45.01	0.3
DIAC	0.56	70	iPd	16	47.94	0.7
SILC	0.56	137	ePc	16	47.31	-0.2
			eS	16	55.70	
CLMC	0.79	12	ePc	16	50.21	-1.1
PURC	0.86	155	iPc	16	51.83	-0.8
BUGC	0.91	31	ePc	16	53.02	-0.4
			eS	17	05.60	

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

JAN 08, 1991 20h 57m 51.70± 1.22s
43.410 N ± 5.2km 5.403 E ± 9.4km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
MD 2.5 (STR).

GELF	0.03	147	Pg	57	53.54	-0.2
TREF	0.21	356	Pg	57	56.46	0.1
BERF	0.23	115	Pg	57	56.70	0.0
PUYF	0.25	60	Pg	57	56.33	-0.7
CDR	0.37	45	iPg	57	58.50	-0.9
			i(Sg)	58	02.30	
VILF	0.50	27	Pg	58	01.50	-0.3
TAVF	0.52	66	Pg	58	01.87	-0.4
CALN	1.13	72	Pg	58	13.26	0.2
MVIF	1.36	68	Pn	58	17.29	0.5
REVF	1.46	76	Pg	58	18.83	0.6
			Sg	58	38.87	
TOUF	1.47	65	Pn	58	18.75	0.4
AURF	1.48	70	Pn	58	19.24	0.8
			Sg	58	40.08	
AUTN	1.58	68	Pn	58	20.70	0.7
			Sg	58	43.01	
SAOF	1.66	69	Pn	58	21.30	0.2
BNI	1.88	29	P	58	30.00	5.7X
			eSn	58	50.50	
CKI	2.31	63	P	58	36.50	6.1X
			eSn	59	02.00	
PGF	2.78	107	Pn	58	35.94	-1.2

S.D. = 0.6 on 15 of 17 obs.

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* JAN 08, 1991 21h 06m 35.79± 1.07s
2.236 N ±13.8km 97.060 E ±10.2km
DEPTH = 33.0km (normal)
5.2mb (2 obs.)
NORTHERN SUMATERA (706)

IPM	4.59	59	ePd	07	45.20	0.4
	0.5s		63.20nm			
			e	08	20.80	
			e	08	58.90	
KLM	4.66	79	eP	08	06.00	20.3X
SNG	6.05	36	eP	08	06.00	0.6
KGM	6.26	92	eP	08	09.00	0.7
CHTO	16.58	6	eP	10	26.00	-1.5
	1.0s		0.80nm			2.8mb X
GBA	22.45	301	P	11	42.00	8.5X
HYB	23.62	311	eP	11	47.50	2.5
PKI	27.55	337	P	12	22.50	0.4
GUN	27.68	338	P	12	22.30	-1.0
	0.7s		17.00nm			4.8mb
DMN	27.70	337	P	12	23.60	0.2
KKN	27.80	337	P	12	23.70	-0.5
GKN	28.24	336	P	12	27.60	-0.6
FORR	44.23	141	iPd	14	42.70	-1.1
	0.4s		32.00nm			5.5mb

S.D. = 1.3 on 11 of 13 obs.

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* JAN 08, 1991 21h 17m 13.85± 1.58s
24.434 S ±16.6km 67.066 W ±12.0km
DEPTH = 171.5 ± 16.7 km
3.9mb (1 obs.)
CHILE-ARGENTINA BORDER REGION (127)

08d 21h

ANT	3.15	283	iPc	18	04.00	-0.4
			iS	18	39.20	
CNCB	7.63	353	P	19	04.40	0.5
LPB	7.92	353	P	19	09.00	1.5
			e	20	22.00	
ZOBO	8.18	353	P	19	10.20	-0.9
			S	20	38.00	
SIV	10.11	35	Pc	19	34.50	-1.4
			(S)	21	13.00	
PPD	14.68	84	eP	20	36.50	2.0
VAO	18.46	90	eP	21	17.80	-1.4
KIC	67.94	72	P	27	55.99	-0.5
	9.6s		3.00nm			
YKA	94.51	340	eP	30	15.40	0.3
	0.5s		0.40nm		3.9mb	
GBA	144.85	101	PKP	36	33.00	0.5
	0.9s		8.00nm			
GKN	154.39	76	PKP	37	00.00	13.0X
	S.D. = 1.4		on 10 of 11 obs.			

JAN 08, 1991 21h 58m 29.67± 0.34s
43.329 N ± 4.0km 17.518 E ± 3.8km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 3.4 (KBA), 3.1 (TTG). MD 3.8 (TRI).

HVAR	0.80	259	iPg	58	41.10	-4.0X
			iSg	58	52.60	
BRY	0.86	119	ePg	58	44.90	-1.5
			eSg	59	00.40	
HCY	1.14	140	ePg	58	49.90	-1.1
			eSg	59	08.20	
NKY	1.20	115	ePg	58	52.00	-0.1
			eSg	59	11.40	
PLE	1.37	89	ePg	58	54.50	-0.4
			eSg	59	15.00	
BDV	1.42	137	ePg	58	54.60	-0.9
			eSg	59	17.00	
TTG	1.56	124	ePn	58	58.40	0.9
			eSn	59	21.20	
IVA	1.80	104	ePn	59	02.60	1.5
			eSn	59	29.40	
ULC	1.87	136	ePn	59	03.10	1.1
			eSn	59	30.00	
PVY	1.95	111	ePn	58	59.05	-4.2X
			eSn	59	33.80	
BAI	2.26	193	P	59	05.00	-2.6
BRT	2.46	186	P	59	10.60	0.1
BEO	2.59	54	ePn	59	15.50	3.2X
			eSg	59	55.50	
VBY	2.71	324	ePn	59	13.70	-0.4
			iSn	59	47.80	
ZAG	2.72	337	ePb	59	16.00	1.9
			eSn	59	46.00	
PTJ	2.80	337	iPnd	59	13.40	-2.0
			e(Sn)	59	48.50	
DUI	2.81	235	P	59	15.60	0.0
LCI	3.01	174	P	59	19.50	1.3
RIY	3.02	313	ePn	59	19.80	1.5
			iSn	59	59.50	
SDI	3.18	241	P	59	21.00	0.2
SKO	3.19	114	ePn	59	23.50	2.6X
			eSg	00	09.30	
SGO	3.22	212	P	59	21.30	0.0
CEY	3.27	319	e(Pn)	59	22.00	0.0
			e	59	24.50	
			eSn	00	04.50	
OHR	3.29	131	ePn	59	21.80	-0.6
AZI	3.30	247	P	59	23.00	0.7
ARV	3.34	274	P	59	22.70	-0.3
ORI	3.36	194	P	59	23.40	0.1
LJU	3.45	323	ePn	59	27.00	2.5
			e(Sn)	00	15.00	
ASS	3.56	267	P	59	26.50	0.3
TRI	3.59	313	e(Pn)	59	24.70	-1.7
			e(Sn)	00	07.80	
			iSg	00	25.40	
MNS	3.68	257	P	59	28.30	0.4
BZS	3.72	51	ePc	59	29.50	1.1
			e	23	56.00	
VOY	3.74	318	iPn	59	27.40	-1.4
			eSn	00	13.50	
TDS	3.77	194	P	59	29.00	-0.1
CRE	4.06	276	P	59	33.90	0.6
SFI	4.16	280	P	59	34.80	0.3
VAY	4.25	116	ePn	59	37.00	1.1
SRO	4.52	7	eP	59	10.10	-29.5X
			e	59	19.80	
FVI	4.69	316	P	59	42.50	0.5
KBA	4.77	323	iPnd	59	42.00	-1.4
			ic	59	42.40	
			iSn	00	40.40	
ZST	4.88	357	eP	59	19.50	-25.2X
			e	00	04.30	
			e	01	11.40	
CTI	4.99	305	P	59	48.00	1.5
MME	5.01	282	P	59	47.10	0.2
SQTA	5.91	313	iPnd	59	58.30	-1.2
			ic	59	59.80	
			iSn	01	06.80	
			i	01	07.70	
			i	01	40.70	
KHC	6.41	336	Pg	00	04.30	-2.2
			Sg	01	16.00	
	S.D. = 1.2		on 39 of 45 obs.			

JAN 08, 1991 22h 04m 09.49± 0.08s
18.057 S ± 2.7km 173.534 W ± 2.8km
DEPTH = 32.9km (geophysicist)
6.1mb (63 obs.) 6.0Msz (34 obs.)
TONGA ISLANDS (173)
Ms 6.3 (BRK). Mo=3.0•10••18 Nm (PPT). Two events about 1.8 seconds apart. Depth from broadband displacement seismograms, based on first event.
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=163 Dip=57 Slip= 90
NP2: 343 33 90
Principal Axes:
T Plg=78 Azm= 73
P 12 253
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The prefered fault plane is not determined.
RADIATED ENERGY
No. of sta: 14 Focal mech. F
Energy 1.7±0.4•10••13 Nm
MOMENT TENSOR SOLUTION
Dep 34 No. of sta: 15
Moment Tensor; Scale 10••18 Nm
Mrr= 1.51 Mtt= 0.89
Mff=-2.41 Mrt= 0.13
Mrf=-0.53 Mtf= 0.19
Principal axes:
T Vol= 1.60 Plg=79 Azm= 39
N 0.89 8 175
P -2.49 8 267
Best Double Couple:Mo=2.0•10••18
NP1:Strike= 6 Dip=38 Slip= 103
NP2: 169 53 80
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 24S, 62C
Centroid Location:
Origin Time 22:04:19.0 0.2
Lat 17.76S 0.02 Lon 173.12W 0.03
Dep 15.0 FIX Half-duration 3.7
Moment Tensor; Scale 10••18 Nm
Mrr= 1.74 0.03 Mtt=-0.43 0.04
Mff=-1.31 0.04 Mrt= 0.78 0.09
Mrf=-0.69 0.11 Mtf= 0.62 0.03
Principal Axes:
T Vol= 2.06 Plg=73 Azm= 29
N -0.17 8 147
P -1.89 15 239
Best Double Couple:Mo=2.0•10••18
NP1:Strike=342 Dip=31 Slip= 107
NP2: 142 61 80

AFI	4.46	23	iPd	05	09.00	-7.6X
			eS	08	00.00	
NDE	6.98	281	eP	05	59.30	7.1X
OVA	7.32	272	ePd	06	04.00	7.0X
MBU	7.47	277	iP	06	06.50	7.5X
SVA	7.62	268	eP	06	08.10	7.1X
SGE	8.15	272	iP	06	12.10	3.5X
NDF	8.59	271	ePc	06	22.10	7.6X
RAR	13.34	106	P	07	12.00	-7.1X
			S	09	30.00	
PVC	17.28	268	iPd	08	15.50	5.5X
BKM	17.35	268	iPc	08	18.80	7.9X
DZM	19.22	255	iPc	08	33.90	0.0
HBZ	20.75	199	eP	08	49.60	-0.3
PUZ	21.20	198	eP	08	52.30	-2.2
NOZ	21.77	198	eP	09	00.70	0.5
WLZ	21.89	204	P	09	03.60	2.1
TAZ	21.91	201	eP	09	03.00	1.4
UTU	21.97	202	P	09	04.70	2.4
WHH	22.50	201	eP	09	06.60	-1.0
MOH	22.51	199	Pc	09	09.80	2.2
AFR	22.62	92	iP	09	08.30	-0.6
	1.2s		260.00nm			5.6mb
PAE	22.80	93	iP	09	10.00	-0.6
	1.2s		315.00nm			5.7mb
PPT	22.81	92	iP	09	10.30	-0.5
	1.2s		450.00nm			5.8mb
TTH	22.98	199	eP	09	13.70	1.5
NGZ	23.07	202	eP	09	12.10	-1.2
TVO	23.10	93	iP	09	13.20	-0.5
	1.2s		385.00nm			5.8mb
CNZ	23.11	202	eP	09	14.60	1.0
TBI	23.11	107	iP	09	13.40	-0.2
	1.1s		370.00nm			5.8mb
PGZ	24.14	199	P	09	23.80	0.4
MNG	24.40	201	P	09	25.00	-1.0
	0.3s		252.00nm			6.3mb
PMO	24.76	87	iP	09	28.90	-0.7
	1.2s		225.00nm			5.6mb
KIW	24.81	201	eP	09	29.70	-0.2
MTW	24.88	200	P	09	30.30	-0.3
VAH	24.97	87	iP	09	29.90	-1.7
	1.2s		175.00nm			5.5mb
CAW	24.97	201	eP	09	30.10	-1.4
TPT	25.02	87	iP	09	30.60	-1.6
	1.2s		450.00nm			5.9mb
BLW	25.07	200	eP	09	32.10	-0.4
MOW	25.19	200	eP	09	33.10	-0.5
MRW	25.21	201	eP	09	32.70	-1.0
RUV	25.21	87	iP	09	32.00	-1.9
	1.2s		230.00nm			5.7mb
WEL	25.23	201	P	09	33.00	-0.9
			S	13	59.00	
TCW	25.32	202	eP	09	33.00	-1.9
THZ	26.32	203	eP	09	42.90	-1.3
KHZ	26.66	202	P	09	46.40	-0.7
HNR	27.12	285	eP	09	52.00	0.4
			eS	14	14.00	
SVO	27.34	285	eP	10	09.00	15.4X
LTZ	27.44	203	P	09	52.00	-2.3
MQZ	28.10	202	eP	09	59.60	-0.7
MMCZ	30.53	205	P	10	19.80	-2.3
BRS	32.35	247	iPd	10	37.20	-1.0
			id	11	50.00	
			i	16	41.00	
COO	33.74	242	iPc	10	48.60	-1.7
			i	17	17.80	
RMQ	35.79	250	iPd	11	07.50	-0.3
			i	11	18.70	
			e	16	43.00	
RKT	36.38	105	iP	11	12.30	-0.4
	1.3s		180.00nm			5.8mb
CNB	37.08	235	iPd	11	18.00	-0.6
	0.2s		48.00nm			6.0mb
			e	28	27.70	
CMS	39.02	242	eP	11	33.00	-1.9
			i	11	44.60	
PMG	39.07	277	eP	11	34.00	-1.5
TOO	40.73	233	eP	11	47.00	-2.0
	0.6s		110.00nm			5.8mb
HON	41.99	22	P	11	59.80	0.5
KIP	42.08	22	ePc	11	59.89	-0.2
OPA	42.33	22	P	12	02.00	-0.1
BFD	42.89	235	eP	12	07.00	0.4
OIS	44.18	259	eP	12	16.00	-1.3
ADE	45.49	238	iPc-	12	25.30	-2.4
	1.0s		120.00nm			5.8mb
WRA	49.16	259	P	13	05.00	8.4X
	0.6s		166.40nm			6.2mb
ASPA	49.22	254	iPc	12	54.10	-2.9
	0.9s		845.10nm			6.8mb
Z	21s		6.00um			5.6Msz
			ipP	13	07.10	48kmX
			iS	19	52.20	
			iScS	22	47.10	
GUA	51.63	305	eP	13	14.80	-0.6
	1.0s		248.00nm			6.1mb

MTN		53.43	267	eP	13	25.70	-3.2X	ASAJ		73.70	329	P	15	42.20	0.4	KLU		82.29	13	P	16	28.10	-0.7
		0.3s		43.00nm			5.9mb	SDN		73.94	8	eP	15	41.20	-1.8	PNT		82.32	32	iPc	16	28.90	-0.2
FORR		54.10	245	eP	13	31.00	-2.6		Z	20s		10.00um			6.1Msz			1.3s		302.00nm			6.2mb
		0.4s		91.00nm			6.2mb	PAS		73.96	45	iPc	15	42.78	-0.8	ALQ		82.60	50	iPc+	16	31.80	0.6
KNA		55.07	263	eP	13	37.60	-3.3X					ic	15	44.44				1.0s		171.75nm			6.1mb
		0.5s		99.00nm			6.1mb					epPd	15	53.04	33kmX		Z	22s		7.69um			6.0Msz
WARB		55.60	250	eP	13	42.00	-2.7					esPd	15	57.35						epP	16	44.50	43kmX
		0.5s		41.00nm			5.7mb					ePP	18	33.77		ANMO		82.60	50	iPc	16	31.59	0.4
DRV		57.07	200	eP	13	54.80	0.3	CPE		73.97	47	eP	15	43.50	-0.2			1.0s		187.50nm			6.1mb
				S	22	21.00		MWC		74.08	45	eP	15	43.00	-1.5		Z	20s		6.91um			6.0Msz
SBA		60.61	185	iPc	14	21.10	2.2	BAR		74.15	47	eP	15	43.00	-1.8					ec	16	33.41	
				iS	22	44.00		PLM		74.40	47	eP	15	45.00	-1.4					esPd	16	45.66	
MEKA		62.79	249	eP	14	31.50	-2.9X	RVR		74.41	46	eP	15	45.00	-1.2					ePP	19	46.32	
KLB		62.91	243	eP	14	32.20	-2.9X	FHC		74.45	37	iPc	15	46.47	0.1					eS	26	49.85	
		0.6s		38.00nm			5.7mb	PEC		74.50	46	P	15	45.80	-1.0					ePS	27	31.78	
NWAO		63.23	242	eP	14	36.20	-1.0			1.4s		135.42nm			5.8mb	PTI		82.62	40	P	16	31.20	0.2
		0.6s		30.00nm			5.6mb	SBB		74.51	45	eP	15	46.00	-0.8	TOA		82.79	13	iPc	16	31.50	0.1
				eS	23	08.00		IKP		74.53	48	eP	15	47.20	0.1	DL2		82.94	315	iPc	16	33.00	0.5
RKG		63.32	240	eP	14	38.50	0.6	FRI		74.63	42	iPc	15	46.87	-0.5			5.0s		1100.00nm			6.2mb X
BAL		63.91	244	eP	14	40.00	-1.7	ISA		74.64	44	eP	15	46.00	-1.6		Z	24s		3.30um			5.6MszX
MUN		64.18	243	eP	14	42.10	-1.4	CMB		74.84	41	ePc	15	47.88	-0.8		N	17s		1.52um			
		0.7s		88.00nm			6.0mb					ic	15	49.37			E	17s		1.82um			
	Z	20s		13.20um			6.1Msz					esPd	16	01.79						SKS	26	52.00	
MRWA		64.68	246	eP	14	45.00	-1.8	ORV		75.10	39	iPc	15	49.57	-0.5	NEW		82.97	34	P	16	32.20	-0.4
		0.5s		5.00nm			4.9mb X	WDC		75.14	38	iPc	15	49.93	-0.4			1.0s		120.00nm			5.9mb
DAV		65.07	287	eP	14	48.00	-1.4	CLC		75.31	44	eP	15	50.00	-1.4	CN2		83.03	320	iPc	16	33.00	0.1
MAP		67.81	290	ePd	15	10.00	3.1X	MIN		75.54	38	iPc	15	51.72	-1.0			5.0s		1000.00nm			6.2mb X
KAKJ		69.48	321	eP	15	15.80	-1.0	GSC		75.54	45	eP	15	51.00	-1.8		Z	23s		9.00um			6.1MszX
ADK		69.69	358	ePc	15	16.30	-1.4	LBFM		76.01	37	P	15	55.60	0.1		N	18s		1.70um			
		1.0s		330.00nm			6.4mb	TATO		76.36	302	ePc	15	56.38	-1.1		E	18s		2.20um			
CHJJ		70.08	321	eP	15	19.40	-1.1					epPd	16	06.64	33kmX					eS	26	52.00	
IIDJ		70.37	319	eP	15	21.00	-1.3	TNP		76.87	42	P	16	00.00	-0.4	SNY		83.14	318	iPc	16	34.00	0.5
OFUJ		70.61	324	P	15	22.20	-1.4			1.0s		150.00nm			6.0mb			5.0s		1600.00nm			6.4mb X
NIIJ		70.87	322	eP	15	24.40	-0.9	KVN		76.88	41	P	16	00.10	-0.3		Z	22s		3.50um			5.7Msz
MAJO		70.88	321	ePc	15	24.11	-1.3	BLM		77.15	9	P	15	49.90	-11.3X		N	19s		2.30um			
				esPd	15	38.85		COR		77.33	34	ePc	16	02.75	0.3					S	26	53.00	
MAT		70.88	321	iPc	15	24.00	-1.4					ec	16	04.24						SS	32	19.00	
		1.0s		240.00nm			6.2mb					epPd	16	13.02	33kmX	MCMT		83.40	39	iPc	16	35.30	0.2
	Z	20s		4.26um			5.7Msz					esPd	16	17.32		LTMT		83.67	39	ePc	16	37.30	0.7
				eS	24	33.00		KDC		77.52	11	ePc	16	02.60	-0.6	QIZ		83.78	292	eP	16	33.00	-4.2X
YAMJ		70.90	323	P	15	24.90	-0.5			1.6s		1114.75nm			6.6mb		N	18s		1.60um			
MTMJ		71.16	320	eP	15	26.20	-0.9	BMW		78.62	33	P	16	09.60	-0.1		E	19s		2.30um			
SMY		71.30	352	eP	15	26.40	-1.1	QZH		78.69	301	Pd	16	11.00	0.6					PP	19	49.00	
	Z	20s		10.00um			6.1Msz			1.0s		80.00nm			5.7mb					eS	26	54.00	
TSRJ		71.61	318	eP	15	29.50	-0.2		Z	20s		3.10um			5.6Msz	HBMT		84.07	38	iPc	16	38.30	-0.2
KUSJ		71.93	329	P	15	30.30	-1.2					S	26	06.00		BGMT		84.10	39	iPc	16	39.70	1.1
SPA		72.06	180	eP	15	31.00	-1.2	VGB		79.29	35	P	16	13.30	0.0	LRM		84.18	38	iPc	16	38.80	-0.2
		1.0s		145.00nm			5.9mb	SSE		79.46	308	Pd	16	13.50	-0.9					ipP	16	42.80	13kmX
HOOJ		72.12	328	P	15	32.60	0.0		Z	20s		2.30um			5.5Msz	BUT		84.22	38	iPc	16	39.10	0.0
QCP		72.17	292	eP	15	46.00	12.6X		N	22s		2.50um				WHN		84.47	304	Pc	16	42.70	2.2
SYP		72.97	44	eP	15	37.00	-1.0		E	22s		3.90um						5.0s		600.00nm			6.0mb X
SBC		73.10	44	iPc	15	38.25	-0.3					sP	16	26.00			Z	24s		2.20um			5.5MszX
				epPd	15	48.51	33kmX					sS	26	33.00			N	20s		3.10um			
PRS		73.17	42	iPc	15	38.99	0.0	LON		79.54	33	iPc	16	12.85	-1.8					pP	16	54.20	37kmX
GCC		73.21	41	iPc	15	38.96	-0.2					ec	16	14.84						S	27	06.00	
PCC		73.27	40	iPc	15	39.14	-0.3					esPd	16	28.08		TIA		84.82	311	Pc	16	42.50	0.3
MRRJ		73.29	327	P	15	39.10	-0.3					ePP	19	19.31			Z	25s		4.30um			5.7MszX
KKM		73.29	282	ePd	15	40.00	-0.2	GMW		79.56	32	P	16	11.80	-2.9X		N	20s		2.20um			
BCH		73.30	43	P	15	39.80	-0.1	PGC		79.96	31	eP	16	16.00	-0.7		E	20s		2.40um			
BAG		73.35	294	eP	15	40.00	-0.6			1.3s		336.00nm			6.2mb					S	27	07.00	
				e	25	02.00		SVW		80.19	9	ePc	16	16.60	-1.2	MEMT		84.93	39	ePc	16	43.20	0.4
CIS		73.37	46	eP	15	39.80	-0.4	MID		80.34	14	eP	16	18.20	-0.3	COL		85.02	11	iPc	16	41.69	-0.8
SAO		73.39	41	iPc	15	39.95	-0.3	MSU		80.41	44	P	16	20.00	0.3					ic	16	43.51	
PHAM		73.49	43	P	15	40.40	-0.4	DUG		80.89	43	P	16	21.70	-0.4					ic	16	46.65	
PRI		73.50	42	iPc	15	41.15	0.1	MDJ		81.04	323	Pc	16	22.50	-0.1					epPd	16	52.12	33kmX
BRK		73.58	40	iPc	15	41.20	-0.1			1.2s		500.00nm			6.4mb					ePP	20	02.88	
	Z	20s		13.00um			6.2Msz		Z	24s		8.10um			6.0MszX					iS	27	08.42	
				ePP	18	25.00			N	18s		3.30um								esS	27	20.56	
				eS	25	17.00						pP	16	36.00	46kmX					e	28	11.60	
				eScS	25	58.00						sP	16	44.00		FBA		85.02	11	iPc	16	41.90	-0.6
				eSS	29	58.00						PP	19	34.00		HRY		85.02	37	iPc	16	43.00	-0.1
				eLR	37	26.00		SIT		81.35	20	ePc	16	23.70	-0.2	SXM		85.08	38	iPc	16	43.60	0.1
BKS		73.60	40	ePc	15	41.30	-0.1			1.2s		227.27nm			6.1mb	IMA		85.20	8	ePc	16	43.60	0.1
		1.0s		513.00nm			6.5mb		Z	20s		7.50um			6.0Msz			1.2s		320.30nm			6.4mb
	Z	20s		14.00um			6.2Msz	AIA		81.53	156	eP	16	26.10	1.3	MAW		85.25	199	iPc	16	45.00	1.2
	N	20s		9.00um				NJ2		81.66	307	Pc	16	27.00	0.9			1.2s		227.00nm			6.3mb
	E	20s		11.00um						5.0s		600.00nm			5.9mb X		Z	20s		7.50um			6.1Msz
				ePP	18	28.00			Z	28s		2.80um			5.5MszX	GOL		85.58	46	P	16	46.20	0.0
				eS	25	12.00						sP	16	39.00			Z	20s		3.25um			5.7Msz
				eSS	29	58.00		PMR		81.73	12	iPc	16	24.70	-1.1	GLD		85.71	46	P	16	47.50	0.7
				eLQ	34	36.00				1.4s		552.30nm			6.4mb		Z	20s		4.00um			5.8Msz
				eLR	37	08.00			Z	22s		4.80um			5.8Msz	IPM		87.08	276	ePd	16	57.00	3.2X
LLA		73.62	42	iPc	15	41.42	-0.2	TTA		81.89	8	ePc	16	26.80	0.1			0.9s		102.70nm			6.1mb
ZSP		73.63	40	iPc	15	41.53	0.0	DAU		82.01	43	P	16	28.20	0.1					e	17	13.80	
MHC		73.63	41	ePc	15	41.60	-0.2	GZH		82.29	297	Pc	16	30.00	0.5	BJI		87.20	314	iPc	16	54.35	0.6
ABL		73.67	44	P	15	41.40	-0.8		Z	32s		3.60um			5.5MszX			5.0s		1020.00nm			6.3mb X
ARN		73.70	41	P	15	42.00	-0.1					S	26	46.00			Z	24s		4.13um			5.8MszX

08d 22h

	E	20s	2.55um						1.0s	145.00nm		6.4mb					i	23	27.80		
			ec	16	56.34			ARE	95.95	109	eP	17	37.00	1.6			e	27	08.00		
			ic	16	58.82			ELC	96.35	53	P	17	35.90	-0.4		8UL	136.26	211	ePKP	23	33.10	2.7X
			epPd	17	04.61	32kmX		UPA	96.51	83	eP+	17	36.00	-1.5		SHI	136.58	294	ePKP	23	22.00	-8.8X
			eSKS	27	16.00				Z	19s	2.78um			5.8Msz		NB2	136.93	357	PKP	23	17.80	-12.5X
SES		87.45	35 iPc	16	54.50	-0.3					i	21	44.00				1.3s		81.30nm				
		1.3s	931.00nm			6.9mb		RSCP	98.69	55	P	17	45.80	-1.2		HFS	137.65	355	ePKP	23	19.90	-11.7X
			pP	17	09.00	50kmX			1.2s	80.17nm				6.1mb			0.8s		14.80nm				
EDM		87.81	31 iPc	16	56.00	-0.4		GTA	98.73	309	iPc	17	47.50	0.3			Z 20s		1.46um			5.7Msz	
		1.3s	774.00nm			6.8mb			3.2s	170.00nm				6.0mb X					LR	11	08.00		
SNG		88.28	278 eP	17	02.10	2.6			Z	26s	9.10um			6.2MszX		8JA	138.48	289	iPKP	23	36.70	2.5X
		1.1s	177.22nm			6.3mb			E	24s	7.30um					KRI	138.51	215	ePKP	23	24.00	-10.7X
			eS	27	30.40						ePP	21	50.00			B8U	138.61	289	ePKP	23	37.20	2.8X
TIY		88.86	310 iPc	17	03.90	2.0					SKS	28	25.00				0.6s		37.00nm				
		1.0s	200.00nm			6.4mb					S	29	14.00			TAB	139.96	308	ePKP	23	28.00	-8.7X
	Z	24s	5.40um			5.9MszX		LPB	98.96	111	P	17	49.00	-0.1					e	23	38.00		
	E	22s	5.00um								PP	21	58.00			LSZ	140.56	214	iPKP	23	31.00	-7.4X
			pP	17	15.00	35kmX					LR	50	10.00						i	23	42.50		
GYA		89.17	298 iPc	17	04.80	1.1		CNCB	98.96	111	P	17	51.90	2.6					i	24	11.00		
		4.0s	900.00nm			6.4mb X		ZOBO	99.03	110	ePc	17	50.76	1.1		MUD	141.61	358	iPKP	23	32.30	-6.5X
	Z	36s	2.00um			5.3MszX					ec	17	52.09				1.0s		26.00nm				
	N	20s	2.80um								ePP	21	43.48			RYD	142.14	287	ePKP	23	36.00	-4.9X
	E	20s	3.30um								LR	50	06.00			COP	142.17	354	ePKP	23	32.00	-7.9X
			pP	17	17.00	40kmX		MBC	99.55	11	ePc	17	49.40	-0.6					e	27	17.00		
			S	27	52.00				1.0s	42.00nm				5.9mb		BSD	142.45	352	iPKPd	23	37.90	-2.5X
HIA		89.23	323 iPc	17	03.83	0.5		CCH	100.37	112	ePdiff	17	56.00	0.6			1.1s		78.00nm				
			ic	17	05.49			SHL	101.59	293	ePdiff	18	00.30	-0.2		MJMA	143.27	289	ePKP	23	40.80	-2.0
			ec	17	07.97						eS	28	37.00			KMZ	143.32	213	iPKP	23	40.50	-2.7X
			epPd	17	14.10	32kmX		CRZF	103.86	210	ePdiff	18	15.00	5.1X					i	23	50.50		
PCT		89.90	285 ePc	17	08.70	1.7					ePP	22	54.00						i	24	06.00		
XAN		90.07	306 iPc	17	08.30	0.7					e(S)	30	15.00						i	24	31.50		
		1.0s	100.00nm			6.0mb					eSP	31	45.00			ETA	144.03	13	ePKP	23	41.00	-2.1X
	E	20s	3.40um								eSS	37	45.00				1.2s		238.00nm				
			pP	17	19.00	33kmX					eSSS	41	15.00			KMSA	144.07	280	iPKPc	23	42.30	-2.0
			SKS	27	27.00			SIV	105.38	113	Pdiff	18	18.40	1.0		ARO	144.28	265	iPKP+	23	44.00	-0.8
LOE		90.47	288 iPc	17	11.60	1.9		GUN	107.35	294	Pdiff	18	28.00	1.7		ECP	144.48	14	ePKP	23	42.60	-1.3
PEL		90.56	125 iPc	17	11.20	1.1		GUN	107.35	294	PKP	22	34.80	-0.5			1.2s		306.00nm				
		1.2s	218.75nm			6.3mb		PKI	107.69	294	Pdiff	18	29.60	1.8		NAI	144.50	240	iPKPc	23	46.00	0.6
HHC		90.73	313 iPc	17	11.80	1.2		PKI	107.69	294	PKP	22	35.40	-0.5			1.0s		107.00nm				
		1.0s	310.00nm			6.6mb		KKN	107.84	294	Pdiff	18	29.20	0.8		OASM	144.83	290	iPKPc	23	45.80	0.4
	E	18s	1.10um					KKN	107.84	294	PKP	22	35.40	-0.7		8RN	145.30	353	iPKPc	23	45.30	0.0
			SKS	27	42.00			DMN	107.96	294	Pdiff	18	29.60	0.6		WIT	145.32	360	ePKP	23	46.00	0.7
INK		90.86	14 ePc	17	10.20	-0.2		DMN	107.96	294	PKP	22	35.60	-0.7		A8HA	145.56	276	ePKP	23	49.70	2.6X
		1.2s	223.00nm			6.4mb		GKN	108.44	294	Pdiff	18	30.20	-0.8		KVT	145.81	318	iPKP	23	47.00	0.4
UYO		91.30	55 iPd	17	13.50	0.3		GKN	108.44	294	PKP	22	36.00	-1.1		UQSK	145.91	289	ePKP	23	48.30	1.0
NST		91.38	286 eP	17	19.00	5.1X		WMQ	108.52	311	Pdiff	18	31.00	0.2		DBN	146.01	1	ePKP	23	48.00	1.5
BTO		91.72	312 iPc	17	16.50	1.4			Z	24s	6.10um			6.1MszX		WTS	146.13	360	ePKP	23	48.00	1.3
	N	20s	2.90um						N	18s	1.50um						1.0s		1039.00nm				
	E	20s	2.20um					KOD	111.05	274	ePKP	22	42.80	0.2		KRA	146.29	344	iPKPc	23	47.00	-0.1
			sP	17	25.50			HYB	111.78	282	ePKP	22	42.50	-1.0			1.4s		81.60nm				
			eSKS	27	46.00			GBA	111.94	278	PKP	22	43.00	-0.8					i	23	54.80		
KMI		92.05	296 ePc	17	18.89	1.7		FRB	112.67	28	ePdiff	18	47.00	-1.6		KSP	146.36	349	iPKPc	23	47.50	0.3
		1.5s	190.00nm			6.3mb		FRB	112.67	28	ePKP	22	45.00	1.3			1.3s		1950.00nm				
	Z	22s	3.35um			5.7Msz		POO	116.39	282	iPKP	22	51.20	-1.1		CLL	146.42	353	iPKP	23	47.40	0.2
	E	20s	2.39um					DAG	119.87	7	iPKPd	22	55.70	-1.5			2.4s		4050.00nm				
			ec	17	20.87				1.0s	24.00nm							Z 19s		2.50um			6.0Msz	
			epPd	17	28.49	30kmX		QUE	124.05	295	iPKPc	23	07.50	0.6					i	23	48.60		
			sP	17	36.00			SOB1	125.96	116	ePKP	23	11.90	1.1		RAC	146.69	346	ePKP	23	49.00	1.3
YKA		92.57	23 eP	17	16.80	-1.6					e	23	24.50						i	23	50.50		
		1.0s	56.10nm			5.9mb					e	23	32.80						i	24	06.50		
NNA		92.57	103 eP	17	20.30	0.8		KEV	126.79	351	iPKP	23	09.20	-1.5		BRG	146.72	351	iPKPc	23	48.00	0.3
		1.0s	28.00nm			5.6mb			1.0s	94.00nm							Z 20s		2.50um			6.0Msz	
	Z	20s	0.71um			5.1Msz		CER	127.42	194	iPKP	23	12.00	-1.1			N 20s		2.50um				
BDT		92.90	287 eP	17	21.90	1.1			1.0s	80.00nm							E 20s		1.50um				
		0.8s	160.90nm			6.5mb		SOD	129.03	350	iPKP	23	14.20	-0.8		CLI	146.79	333	ePKP	23	54.50	6.5X
CD2		93.08	301 Pd	17	22.40	0.9		BLF	129.39	202	ePKP	23	18.00	0.9		GAZ	146.98	311	iPKP	23	49.40	0.8
		1.6s	100.00nm			6.0mb			1.0s	80.00nm						SPC	147.00	343	ePKP	23	48.70	0.2
	Z	23s	3.70um			5.8MszX		SEK	129.55	204	iPKPd	23	18.50	1.0					i	23	56.70		
			SKS	27	56.00				1.0s	50.00nm						KAS	147.05	321	iPKPc	23	48.80	0.1
CHG		93.43	289 ePc	17	24.70	1.4		AKU	129.69	13	iPKP	23	17.60	1.3		BNS	147.16	359	iPKPd	23	45.90	-2.5X
		0.9s	76.47nm			6.1mb			1.2s	100.00nm							1.0s		657.00nm				
			eS	27	56.00			MAIO	130.08	302	iPKPc	23	18.00	-0.1			Z 22s		4.40um			6.2MszX	
CHTO		93.43	289 iPc	17	24.60	1.3			1.1s	35.34nm						MOX	147.23	354	iPKPc	23	49.00	0.4
		0.7s	59.24nm			6.1mb					e	34	11.00				1.8s		962.00nm				
OLY		94.07	54 P	17	25.90	0.0		BFT	130.84	208	iPKPc	23	20.50	0.4			Z 22s		3.10um			6.0Msz	
FFC		94.38	33 iPc	17	25.80	-1.1			0.8s	66.00nm							E 23s		3.30um				
		1.6s	187.00nm			6.3mb		PRY	130.86	205	iPKPd	23	21.50	1.5		BMR	147.33	338	ePKPd	23	50.00	1.2
LZH		94.69	306 iPc	17	29.93	0.9			1.5s	40.00nm						ENN	147.36	1	ePKP	23	49.50	0.8
		1.5s	180.00nm			6.3mb		SLR	131.57	207	iPKPd	23	21.50	0.1			1.0s		631.00nm				
			ec	17	31.75				1.5s	64.00nm						AAE	147.39	258	ePKP	23	51.50	1.2
			epPd	17	39.69	30kmX			Z	20s	12.60um			6.6Msz		CFR	147.46	331	ePKP	23	53.50	4.5X
			ePP	21	21.38			KSR	132.03	205	iPKPc	23	23.00	0.7		PRU	147.49	350	PKPc	23	49.00	0.0
CCM		95.07	52 ePc	17	30.24	-0.2			1.2s	52.00nm							1.4s		480.00nm				
			ec	17	31.56			KAF	133.84	347	ePKP	23	14.90	-9.4X			Z 20s		2.70um			6.0Msz	
			epPd	17	40.17	31kmX		RGS	134.99	357	ePKP	23	26.30	-0.2			N 20s		2.20um				
			esPd	17	45.47			NUR	135.64	347	iPKP	23	19.00	-8.8X			E 22s		1.60um				
FVM		95.66	52 P	17	32.50	-0.7			0.8s	74.80nm									e	23	52.30		

08d 22h

			e	25	10.00		FEL	150.23	358	ePKP	23	53.57	0.1	MMK	152.06	358	ePKPc	23	57.30	0.9
			PP	27	08.50		PVL	150.27	332	iPKPc	23	54.00	0.5	EMS	152.06	359	ePKPc	23	57.30	0.9
HOF	147.53	354	ePKP	23	49.60	0.5	KFNJ	150.27	303	PKPc	23	54.66	0.8	PLDF	152.07	4	PKP	23	57.18	0.9
VRI	147.56	333	ePKPc	23	53.00	3.7X	MOF	150.28	359	PKP	23	53.69	0.2	ELL	152.20	317	iPKP	23	57.00	0.2
CEI	147.68	340	ePKP	23	55.00	5.7X	FAM	150.28	310	ePKP	23	59.80	6.0X	VAI	152.20	357	PKP	23	58.30	2.0X
CVO	147.84	334	ePKP	23	53.50	3.8X	MASJ	150.29	303	PKPc	23	54.10	0.1	MDI	152.23	355	PKP	23	58.10	1.8X
TNS	147.87	358	ePKPc	23	52.90	3.2X	BSF	150.30	360	PKP	23	53.96	0.4	PYM	152.24	5	PKP	23	57.55	1.1
TLB	147.96	330	ePKP	23	54.00	4.1X	SLE	150.32	357	ePKPc	23	53.70	0.2	MMB	152.28	331	ePKPd	23	57.00	0.4
MLR	148.20	334	ePKPc	23	54.00	3.5X	MKRJ	150.41	303	PKPc	23	54.36	0.1	SAL	152.32	354	PKP	23	56.10	-0.4
GRF	148.21	354	iPKPc	23	50.70	0.5	WATA	150.50	353	iPKPc	23	53.80	-0.2	EZN	152.33	326	ePKP	23	56.60	-0.1
	Z 22s		2.00um			5.9Msz		1.0s		335.00nm				ORX	152.47	358	PKP	23	56.24	-0.6
			ic	23	54.60					i	23	59.60		ORO	152.48	358	PKP	23	58.90	2.0X
			e	23	57.10					i	24	09.90		RJF	152.52	8	ePKP	23	56.80	0.0
ISR	148.22	333	ePKP	23	55.00	4.6X				iPP	27	16.30			1.3s		115.55nm			
PSZ	148.26	343	iPKP	23	51.30	0.9	KBA	150.51	350	iPKPc	23	53.30	-0.7		Z 22s		9.00um			6.5Msz
KHC	148.47	351	iPKPc	23	51.20	0.5		1.0s		172.00nm				PLE	152.53	339	iPKPc	23	57.21	0.2
	1.3s		367.50nm							i	23	59.10		LPL	152.62	360	ePKP	23	57.60	0.4
	Z 20s		2.60um			6.0Msz				i	24	09.70			1.3s		97.50nm			
	N 20s		1.80um							iPP	27	33.00		LPG	152.64	360	ePKP	23	57.70	0.4
	E 20s		2.00um							i	28	04.90			1.4s		128.50nm			
PSN	148.57	329	iPKPd	23	53.00	2.1X	ZLA	150.61	357	ePKP+	23	54.40	0.4	LSD	152.67	359	PKP	23	58.09	0.7
BBTK	148.57	319	iPKPc	23	51.00	-0.2	DSI	150.61	303	ePKP	23	54.00	-0.4	IVA	152.76	338	iPKPc	23	57.29	0.0
SHBJ	148.61	303	PKPc	23	52.02	0.5	LISJ	150.64	302	PKPc	23	54.92	0.5	PRK	152.77	325	ePKP	24	04.90	7.6X
ZST	148.71	346	ePKP	23	51.40	0.4	SQTA	150.65	353	iPKPc	23	54.20	0.0	LBL	152.77	5	PKP	23	58.62	1.5
			i	23	56.40			1.0s		358.00nm				LFF	152.77	9	ePKP	23	57.30	0.2
TNR	148.75	336	ePKPc	23	52.00	0.8				i	24	00.00			1.3s		65.00nm			
CMP	148.76	334	ePKPd	23	55.00	3.8X				i	24	10.10		KSL	152.78	316	ePKP	24	04.80	7.4X
SRO	148.78	345	ePKP	23	50.30	-0.8				i	24	20.00		IZM	152.80	322	ePKP	23	57.00	-0.5
			i	23	55.40					i	26	05.00		SKO	152.95	335	iPKPc	23	57.50	0.0
MTUR	148.78	334	ePKP	23	56.00	4.7X				iPP	27	20.10			1.5s		432.00nm			
VKA	148.82	347	ePKP	23	50.00	-1.2				i	27	21.20			Z 20s		3.84um			6.2Msz
	2.5s		2612.00nm				BBS	150.66	359	PKP	23	54.49	0.4		N 20s		2.59um			
			i	23	52.40		JRDJ	150.66	301	(PKP)	24	01.31	6.6X		E 19s		2.24um			
			i	23	55.80		ALT	150.68	320	ePKP	23	54.40	0.0				i	24	05.20	
			i	24	00.30		LOMF	150.78	359	PKP	23	54.60	0.3				i	24	16.00	
			i	26	54.70		CSS	150.79	310	ePKP	23	54.50	-0.1				i	27	37.00	
FLN	148.86	9	ePKP	23	50.70	-0.5	LOR	150.79	4	ePKP	23	54.20	0.0	CAF	152.96	7	ePKP	23	57.50	0.0
	1.1s		112.35nm					1.3s		225.65nm					1.4s		119.80nm			
	Z 21s		6.75um			6.4Msz		Z 20s		8.50um			6.5Msz	PVY	152.98	338	iPKPc	23	57.41	-0.3
BUC	148.99	332	ePKPd	23	46.00	-5.5X	SAX	150.79	356	ePKPc	23	54.90	0.3	RSP	152.98	359	PKP	23	57.47	-0.1
COZ	149.00	335	ePKPc	23	56.50	4.7X	BEO	150.86	339	iPKP	23	54.50	0.2	VAY	153.01	333	iPKPc	23	56.70	-0.9
BUC1	149.07	332	ePKP	24	00.00	8.3X				i(PcP)	24	00.50			1.4s		302.00nm			
LDF	149.07	9	ePKP	23	50.90	-0.7	KCT	150.92	324	ePKP	23	54.50	-0.1				i	24	04.50	
	1.1s		97.70nm				SSF	150.97	4	ePKP	23	54.40	-0.1				i	24	16.30	
DEV	149.08	337	ePKPd	23	53.00	1.4	MFF	151.01	9	ePKP	23	54.10	-0.4	BNI	153.08	360	PKP	24	01.10	3.3X
GWF	149.14	359	PKP	23	52.33	0.6		1.5s		198.50nm				LPO	153.09	8	ePKP	23	57.80	0.2
GRR	149.16	10	ePKP	23	51.10	-0.6	OGA	151.02	354	iPKPc	23	55.40	0.6		1.6s		118.15nm			
	1.3s		173.30nm				FVI	151.07	351	PKP	23	56.00	1.4	NKY	153.13	339	iPKP	24	06.06	8.2X
STU	149.28	356	iPKPc	23	52.00	0.1	LBF	151.08	4	ePKP	23	54.40	-0.3	BRY	153.20	340	iPKPc	23	57.86	-0.1
	1.0s		360.00nm				BNT	151.09	325	ePKP	23	54.50	-0.4	RRL	153.21	359	PKP	23	59.32	1.2
	Z 20s		2.84um			6.1Msz	RBL	151.09	350	PKPd	24	00.70	5.9X	BOB	153.25	355	PKPd	24	00.40	2.5X
KMR	149.43	350	iPKP-	23	52.00	-0.1	EDC	151.12	325	ePKP	23	54.00	-0.9	BHB	153.29	359	PKP	23	57.68	-0.2
			i	23	56.90		PTJ	151.14	346	ePKP	23	53.20	-1.7	PLG	153.37	330	ePKP	24	05.20	7.0X
			ipPKP	24	24.30		LLS	151.19	356	ePKPc	23	55.50	0.4	TTG	153.37	339	iPKPc	23	58.07	0.0
LPF	149.48	10	ePKP	23	51.70	-0.5	DST	151.20	323	iPKP	23	54.60	-0.5	SMG	153.51	322	ePKP	24	06.40	8.0X
	1.2s		136.85nm				ZAG	151.21	346	iPKPc	23	55.50	0.7	PCP	153.54	357	PKP	23	57.47	-0.9
STR	149.53	358	PKP	23	52.84	0.6	AVF	151.23	4	ePKP	23	54.50	-0.3	HVAR	153.57	343	iPKP	23	57.70	-0.6
FUR	149.71	354	ePKPc	23	52.80	0.2		1.3s		88.45nm				FOUF	153.61	359	e(PKP)	23	59.98	1.7
			i	23	58.20		OSS	151.29	355	ePKPc	23	55.70	0.5				i	24	07.87	
			i	24	03.00		LJU	151.30	348	iPKPc	23	55.50	0.5				i	24	20.86	
WLS	149.71	359	PKP	23	52.33	-0.3	BCK	151.34	317	iPKP	23	54.00	-1.4	PTO	153.61	26	ePKP	24	05.20	6.8X
CDF	149.72	359	PKP	23	52.94	0.3	KGT	151.35	326	ePKP	23	55.00	-0.2	HCY	153.62	340	iPKPc	23	58.24	-0.2
CSTJ	149.72	301	PKPc	23	53.48	0.3	SMF	151.41	4	ePKP	23	54.70	-0.5	PZZ	153.63	359	PKP	23	58.70	0.1
TIH	149.73	344	ePKP	23	52.60	0.0	VOY	151.43	349	iPKP	23	55.10	-0.2	BDV	153.65	339	iPKPc	23	58.19	-0.3
BZS	149.76	339	ePKPc	23	52.00	-0.7	KDZ	151.44	329	iPKP	23	56.00	0.6	CKI	153.67	357	PKP	23	58.90	0.5
GPA	149.77	322	iPKP	23	53.90	1.0	KHL	151.49	320	iPKP	23	55.80	0.2	MME	153.70	353	PKP	24	01.80	3.0X
HRT	149.79	324	iPKP	23	52.00	-1.0	PPCY	151.53	311	ePKP	23	54.50	-1.2	RSM	153.72	350	PKP	24	01.40	2.9X
TIM	149.79	339	iPKPc	23	56.00	3.3X	VDL	151.54	356	ePKPc	23	55.90	0.3	ULC	153.79	338	iPKPc	23	58.91	0.2
MDSJ	149.89	302	PKPc	23	53.64	0.2	LSF	151.59	7	ePKP	23	54.90	-0.5	ROB	153.82	358	PKP	23	58.50	-0.2
SHMJ	149.89	305	PKPc	23	54.64	1.3		1.8s		276.20nm				SFI	153.82	351	PKPd	24	01.20	2.6X
ECH	149.91	359	PKP	23	52.73	-0.2	CEY	151.61	348	iPKPc	23	55.70	0.2	BDI	153.84	353	PKP	24	01.20	2.4X
VITF	149.92	1	PKP	23	53.37	0.6	TCF	151.63	6	ePKP	23	55.20	-0.3	STV	153.88	359	PKP	23	58.39	-0.5
JARJ	149.93	304	PKPc	23	53.67	0.2	VBY	151.67	347	iPKPc	23	56.30	0.7	FIN	153.89	357	PKP	23	58.39	-0.4
BHG	149.95	351	iPKPc	23	52.80	-0.1	VTS	151.70	333	iPKPd	23	58.00	2.1X	OHR	153.93	335	iPKPc	23	58.90	-0.1
			i	23	58.30		VVI	151.72	351	PKP	23	58.30	2.6X		1.2s		425.00nm			
			i	24	04.00		MAF	151.73	6	ePKP	23	55.50	-0.2				i	24	07.00	
ITU	149.97	325	iPKPc	23	52.00	-1.1		1.4s		119.80nm							i	24	20.50	
ISK	149.97	325	ePKP	23	53.00	-0.1	RZN	151.74	330	iPKPc	23	55.00	-1.1	FIR	154.04	352	ePKP	23	59.00	0.1
SRE	149.99	336	ePKPd	24	03.00	9.9X	CTI	151.76	352	PKP	23	58.00	2.2X	KOT	154.05	302	ePKP	24	00.00	0.6
BURJ	150.04	304	PKPc	23	53.99	0.3	RDO	151.76	329	ePKP	23	56.00	0.2	ARV	154.05	349	PKP	24	01.60	2.6X
HAU	150.13	0	ePKP	23	52.80	-0.4	TRI	151.77	349	ePKP	23	56.10	0.4	CRE	154.09	351	PKPd	24	01.10	1.9X
	1.3s		93.85nm							i	24	02.40		TOUF	154.11	359	PKP	23	59.90	0.6
YLV	150.13	323	iPKP	23	52.50	-1.0				e	27	46.00		AUTN	154.13	358	PKP	23	59.57	0.2
DMK	150.14	327	iPKP	23	52.80	-0.6	BADA	151.86	297	ePKP	23	57.30	1.0	SAOF	154.13	358	PKP	23	59.66	0.5
GHZJ	150.17	300	PKPc	23	54.24	0.3	RIY	152.00	348	ePKPc	23	55.80	-0.2	PII	154.19	353	PKP	24	00.50	1.4
QTRJ	150.20	302	PKPc	23	54.42	0.5				i	24	02.80		KZN	154.19	332	ePKP	23	59.10	-0.3
SALJ	150.22	303	PKPc	23	54.35	0.4	DIX	152.04	359	ePKPc	23	57.40	0.9	IMI	154.20	358	PKP	23	59.21	-0.1

08d 22h

MVIF	154.23	359	PKP	23	59.83	0.4
AURF	154.24	359	PKP	23	59.75	0.4
SBF	154.26	358	ePKP	23	58.90	-0.4
	1.1s	109.90nm				
NEO	154.31	329	ePKP	23	59.40	-0.1
BTH	154.38	11	PKPd	24	03.40	4.0X
CALN	154.38	359	PKP	24	00.05	0.4
REVF	154.38	358	PKP	23	59.81	0.3
CDR	154.45	1	iPKPd	24	01.00	1.5
			e	24	08.50	
			i	24	23.00	
HLW	154.47	302	ePKP	24	00.00	0.1
			e	24	09.00	
			e	24	23.50	
			e	28	08.00	
ASS	154.52	349	PKPd	24	01.20	1.5
EPF	154.57	10	ePKP	23	59.90	0.2
	1.3s	110.10nm				
FRF	154.58	360	ePKP	23	59.60	0.0
	1.3s	86.65nm				
LRG	154.68	0	ePKP	23	59.80	0.0
	1.3s	122.75nm				
	Z 21s	5.00um			6.3Msz	
APE	154.71	322	ePKP	24	08.10	8.0X
LMR	154.80	360	ePKP	23	59.80	-0.1
	1.3s	86.65nm				
DHLJ	154.84	305	PKPc	23	54.91	-5.4X
ATH	155.07	326	ePKP	24	09.70	9.2X
MNS	155.18	349	PKP	24	02.10	1.6
EVR	155.29	330	ePKP	24	01.60	0.7
AZI	155.41	347	PKP	24	02.70	1.9X
BRT	155.45	340	PKP	24	03.50	2.6X
PGF	155.49	355	PKP	24	01.52	0.5
DUI	155.50	345	PKP	24	03.80	2.7X
KEK	155.52	335	ePKP	24	01.70	0.6
EPLA	155.53	24	ePKP	24	02.90	1.8
SDI	155.60	347	PKP	24	02.90	1.7
ETER	155.64	7	ePKP	24	02.70	1.6
LCI	155.69	338	PKP	24	04.00	2.8X
GUD	155.70	20	ePKP	24	03.30	1.8
RMP	155.73	349	PKP	24	01.00	-0.3
RDP	155.78	349	PKP	24	01.50	0.0
NPS	155.86	319	ePKP	24	02.80	1.1
SGO	156.32	343	PKP	24	03.50	1.4
VLI	156.41	325	ePKP	24	02.00	-0.4
TOL	156.42	21	ePKPc	24	03.10	0.8
			ec	24	05.25	
ORI	156.43	341	PKP	24	04.80	2.5X
ITM	156.60	328	ePKP	24	02.90	0.3
VAM	156.62	321	ePKP	24	03.70	1.0
EROO	156.72	12	ePKP	24	04.00	1.4
EBR	156.74	12	ePKP	24	04.00	1.4
			ePP	28	04.00	
TDS	156.84	340	PKP	24	04.90	2.1X
MBO	157.22	96	ePKP	24	05.60	1.7
EVAL	157.35	28	ePKP	24	05.00	1.5
ECHE	157.60	15	ePKP	24	05.60	1.8
EHOR	157.80	25	ePKP	24	05.60	1.6
EBAN	158.05	22	ePKP	24	05.90	1.5
EVIA	158.05	19	ePKP	24	06.20	1.7
GIBL	158.34	28	ePKP	24	06.00	1.3
LIJA	158.51	27	ePKP	24	06.00	1.0
EPRU	158.53	26	ePKP	24	06.60	1.6
CNIL	158.67	29	ePKP	24	08.00	3.0X
MOMI	158.86	28	ePKP	24	08.00	2.7X
AFC	158.95	23	ePKP	24	06.40	0.8
PLAT	159.01	29	ePKP	24	08.00	2.5X
MAL	159.07	25	iPKPd	24	06.80	1.3
			i	24	43.60	
			iPP	28	28.00	
OJEN	159.12	28	ePKP	24	11.00	5.3X
ENIJ	159.67	20	ePKP	24	07.90	1.7
BCAO	162.03	223	iPKPc	24	09.50	0.3
	0.9s	131.00nm				
			id	24	56.10	
			id	28	43.50	
LIC	163.75	135	PKPc	24	10.78	-0.1
	Z 20s	3.50um				
KIC	164.04	135	PKP	24	11.16	0.0
	1.1s	70.00nm				
TIC	164.06	134	PKPc	24	11.20	0.0
WEGH	165.95	151	ePKP	24	12.00	-0.8
			e	25	13.50	
LEGH	166.06	151	ePKP	24	14.00	1.1
SHGH	166.37	151	ePKP	24	13.00	-0.1
			e	25	16.00	
KOGH	166.42	150	ePKP	24	13.00	-0.3

			e	25	16.00	
KUK	166.45	150	ePKP	24	13.00	-0.2
	S.D. = 1.0		on 462 of 559 obs.			

% JAN 08, 1991 22h 26m 32.28± 0.83s
42.760 N ± 6.2km 13.114 E ± 9.6km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ASS	0.45	313	P	26	41.70	0.1
			eSg	26	48.60	
AQU	0.46	152	P	26	41.30	-0.3
			eSg	26	49.00	
MNS	0.49	221	P	26	42.20	-0.1
			eSg	26	49.80	
ARV	0.75	350	P	26	46.80	-0.2
			eSg	26	58.90	
SDI	1.18	153	P	26	54.70	0.4
			eSg	27	10.50	
	S.D. = 0.4		on 5 of 5 obs.			

JAN 08, 1991 23h 23m 10.24± 0.85s
40.685 N ± 5.7km 29.938 E ± 6.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.9 (ISK).

HRT	0.25	304	iPg	23	15.00	-0.5
GBZT	0.39	286	ePg	23	17.60	-0.6
			iSg	23	23.80	
YLV	0.45	255	iPg	23	19.00	-0.3
GPA	0.49	144	iPg	23	19.90	-0.2
			iSg	23	25.90	
KCT	1.28	251	ePn	23	34.00	0.0
DST	1.47	223	ePn	23	36.60	-0.3
BNT	1.57	259	ePn	23	38.50	0.3
EDC	1.62	259	ePn	23	39.50	0.6
DMK	2.00	305	iPn	23	45.30	0.9
KGT	2.02	264	ePn	23	45.00	0.3
KHL	2.38	188	ePn	23	50.00	0.0
	S.D. = 0.5		on 13 of 13 obs.			

% JAN 08, 1991 23h 43m 35.07± 2.56s
3.685 N ±10.3km 76.969 W ±25.0km
DEPTH = 33.0km (normal)
COLOMBIA (103)
MD 3.4 (UVC).

ANCC	0.20	149	iPd	43	40.56	-1.1
			eS	43	44.60	
HOQC	0.40	123	iPd	43	43.87	-0.6
			eS	43	50.50	
CLMC	0.45	64	iPc	43	44.94	-0.2
BUGC	0.74	74	ePc	43	49.05	-0.1
			eS	43	59.50	
SALC	0.76	159	iPd	43	49.26	-0.2
			eS	43	59.90	
DIAC	0.86	117	iPd	43	51.18	0.2
			eS	44	03.20	
HOBC	1.07	51	iPc	43	54.36	0.5
SILC	1.17	148	iPd	43	56.15	0.5
			eS	44	11.90	
PURC	1.48	156	eP	44	01.15	1.0
	S.D. = 0.7		on 9 of 9 obs.			

% JAN 09, 1991 00h 07m 10.98± 2.04s
2.130 N ±11.2km 76.221 W ±19.9km
DEPTH = 10.0km (geophysicist)
COLOMBIA (103)
MD 3.4 (UVC).

PURC	0.24	324	iPd	07	16.85	0.5
SILC	0.57	348	eP	07	21.50	-1.2
SALC	0.96	331	eP	07	29.00	-0.4
DIAC	1.15	1	eP	07	31.80	-0.9
			eS	07	50.00	
HOQC	1.39	343	ePc	07	36.40	-0.3
			eS	07	58.10	
ANCC	1.52	335	eP	07	39.20	0.9
CUMC	2.02	235	eP	07	45.60	-0.3
HOBC	2.21	2	eP	07	49.60	1.2
			eS	08	21.20	
	S.D. = 1.0		on 8 of 8 obs.			

? JAN 09, 1991 00h 49m 35.68± 2.12s
43.706 N ±38.1km 7.264 E ±29.8km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
ML 2.1 (LDG).

SBF	0.20	38	Pg	49	40.10	0.0
			Sg	49	43.00	
FRF	0.47	252	Pg	49	45.10	-0.2
			Sg	49	51.40	
LMR	0.66	236	Pg	49	48.80	-0.1
			Sg	49	58.00	
LRG	0.70	249	Pg	49	49.80	0.3
			Sg	49	59.00	
	S.D. = 0.3		on 4 of 4 obs.			

* JAN 09, 1991 01h 18m 19.68± 0.93s
20.851 N ± 9.3km 120.200 E ±22.0km
DEPTH = 33.0km (normal)
4.3mb (2 obs.)
PHILIPPINE ISLANDS REGION (248)

TWG	2.12	22	ePc	18	53.30	-0.2
			eS	19	11.30	
TWK	2.42	6	ePc	18	57.00	-0.8
PIP	2.54	171	iPd	18	58.50	-1.0
TWQ	3.46	10	eP	19	11.60	-0.9
CVP	3.48	154	eP	19	18.00	5.1X
TIY	18.10	340	eP	22	28.10	-2.2
BJI	19.43	351	eP	22	47.00	0.7
LZH	20.86	320	eP	23	02.50	1.0
	1.5s	25.00nm			4.4mb	
			pP	23	09.50	26kmX
BTO	21.51	338	eP	23	11.60	3.6X
CN2	23.30	10	eP	23	26.80	1.3
GTA	25.45	321	eP	23	41.60	-4.8X
WRA	42.84	160	P	26	35.00	18.5X
	0.9s	3.30nm				
MBC	76.69	12	eP	30	10.00	1.3
YKA	86.38	22	eP	31	00.50	0.8
	0.8s	1.10nm			4.1mb	
	S.D. = 1.4		on 10 of 14 obs.			

& JAN 09, 1991 02h 24m 02.59s
58.893 N 142.788 W
DEPTH = 10.0km (geophysicist)
GULF OF ALASKA (15)
<AEIC>.

YAH	1.57	19	iP	24	26.19	-4.5
YKU	1.71	66	eP	24	27.71	-4.8
TGL	1.87	359	eP	24	30.13	-4.9
			eS	24	51.81	
MID	1.91	288	eP	24	30.73	-4.7
BALM	2.16	6	eP	24	34.38	-4.9
			eS	24	57.39	
CTGM	2.20	19	eP	24	34.92	-5.0
GLB	2.61	349	iP	24	40.33	-5.2
MTU	2.72	296	eP	24	42.07	-5.0
VLZ	2.87	323	eP	24	43.41	-5.7
VZW	2.88	321	eP	24	43.86	-5.6
KNIM	2.91	302	eP	24	43.76	-6.0
GLI	2.95	314	eP	24	44.05	-6.2
KLU	3.04	330	iP	24	46.55	-5.1
TZL	3.42	339	eP	24	52.30	-4.7
SEW	3.61	293	eP	24	55.73	-3.9
TOA	3.63	334	eP	24	53.72	-6.4
KNK	3.80	314	eP	24	56.83	-5.6
SDG	3.89	341	eP	24	59.01	-4.7
SLKM	4.10	296	eP	25	01.00	-5.6
PMS	4.13	308	eP	25	01.19	-5.9
PLRM	4.16	313	eP	25	01.93	-5.5
GHO	4.20	316	eP	25	02.74	-5.4
CUT	5.09	317	eP	25	15.48	-5.2
RDT	5.15	293	eP	25	16.30	-5.3
SPU	5.18	300	eP	25	15.58	-6.4
CGLM	5.21	302	eP	25	15.17	-7.3
REF	5.27	292	eP	25	17.14	-6.3
RDN	5.31	292	eP	25	18.01	-5.9
CKL	5.31	300	eP	25	17.70	-6.3
NCG	5.31	302	eP	25	18.68	-5.3
SKT	5.32	309	eP	25	18.45	-5.6
BGL	5.36	300	eP	25	18.73	-5.9
	32 obs. associated					

% JAN 09, 1991 05h 27m 42.17± 0 71s
40.722 N ± 8.9km 28.627 E ± 5.8km

DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

ISK	0.47	43	iPg	27 51.80	0.0	
YLV	0.59	105	iPg	27 53.80	-0.3	
			iSg	28 02.30		
BNT	0.65	236	iPg	27 54.70	-0.5	
			eSg	28 04.20		
EDC	0.69	237	ePg	27 55.00	-0.9	
HRT	0.80	82	iPg	27 57.80	0.1	
KGT	1.04	255	iPn	28 02.80	0.9	
DST	1.12	180	ePn	28 03.70	0.6	

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

JAN 09, 1991 07h 38m 44.01± 1.17s
36.422 N ± 9.6km 70.517 E ± 6.7km
DEPTH = 212.4 ± 14.0 km
4.5mb (11 obs.)
HINDU KUSH REGION (718)

QUE	6.90	207	eP	40 24.50	0.6	
			eS	41 42.40		
NDI	9.56	142	iPc	40 57.70	-0.6	
	0.6s	23.33nm		4.6mb		
GKN	14.59	121	P	42 03.24	1.2	
	0.3s	41.00nm		5.3mb		
DMN	15.16	121	P	42 08.92	-0.2	
	0.3s	18.00nm		5.0mb		
KKN	15.17	120	P	42 08.68	-0.5	
	0.4s	48.00nm		5.3mb		
PKI	15.40	121	P	42 11.36	-0.7	
	0.5s	34.00nm		5.0mb		
GUN	15.52	119	P	42 13.18	-0.4	
	0.3s	20.00nm		5.0mb		
GBA	23.55	163	Pc	43 37.20	0.7	
	0.4s	1.30nm		3.9mb		
CHTO	30.53	117	e(P)	44 40.10	0.6	
KAF	37.48	327	eP	45 38.60	0.3	
	0.2s	0.90nm		4.0mb		
NUR	37.66	324	eP	45 40.30	0.5	
HFS	42.89	322	eP	46 22.50	-0.2	
	0.4s	2.90nm		4.1mb		
NB2	44.21	323	P	46 32.60	-0.7	
	0.6s	2.70nm		3.9mb		
MBC	67.43	3	eP	49 18.50	0.5	
INK	74.05	9	eP	49 58.00	0.4	
KIC	74.39	266	P	49 59.80	-0.7	
LIC	74.70	266	P	50 01.50	-0.7	
WRA	82.28	122	P	50 43.00	0.0	
	0.6s	0.70nm		3.6mb		

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

JAN 09, 1991 08h 15m 39.36± 0.41s
56.975 N ± 7.0km 120.437 E ±10.0km
DEPTH = 33.0km (normal)
4.6mb (17 obs.)
EASTERN USSR (656)
Felt (III) at Chito.

CN2	13.56	164	eP	18 46.30	-5.3X	
			epP	18 52.00		
MDJ	13.64	151	eP	18 50.00	-2.7	
	Z 12s	1.80um				
SNY	15.30	171	iPd	19 17.70	3.4X	
	0.9s	20.00nm		4.4mb		
	Z 10s	1.20um		3.8MszX		
HHC	17.13	203	eP	19 39.50	1.7	
BJI	17.17	191	eP	19 39.50	1.4	
	1.0s	27.00nm		4.3mb		
	Z 10s	1.15um		3.7Msz		
BTO	17.73	207	eP	19 44.00	-1.2	
TIY	19.99	199	eP	20 11.00	-0.7	
	Z 14s	1.20um				
TIA	20.89	188	eP	20 18.40	-2.5	
	Z 14s	1.40um		4.5MszX		
	E 13s	1.20um				
			eS	24 12.00		
GTA	22.16	226	Pd	20 32.20	-1.7	
	1.2s	10.00nm		4.1mb		
	Z 10s	0.60um		4.3MszX		
	E 10s	4.40um				
MAT	23.65	142	(P)	20 35.00	-13.3X	
			(S)	25 14.00		
LZH	23.69	215	eP	20 50.50	1.7	
	1.5s	14.00nm		4.3mb		
			PP	21 28.00		
WMQ	24.39	251	eP	20 56.80	1.2	
NJ2	24.94	183	eP	21 00.00	-0.8	
	Z 14s	0.40um		4.1MszX		
	E 10s	0.80um				
SSE	25.88	179	eP	21 15.20	5.7X	
	Z 13s	0.90um		4.5MszX		
	N 12s	0.60um				
	E 12s	0.60um				
			S	25 52.00		
WHN	26.76	192	eP	21 19.00	1.3	
GUN	37.93	235	P	22 55.20	-0.4	
KKN	38.31	235	P	22 58.72	0.1	
	0.8s	28.00nm		5.2mb		
GKN	38.42	236	P	22 59.30	-0.2	
PKI	38.44	235	P	22 59.12	-0.7	
DMN	38.54	235	P	23 00.56	-0.1	
	0.8s	18.00nm		4.9mb		
IMA	38.74	41	eP	23 01.90	0.2	
	0.8s	4.00nm		4.3mb		
KEV	39.38	327	eP	23 13.00	6.2X	
	0.8s	17.60nm		4.9mb		
TTA	39.45	46	eP	23 07.70	0.1	
SOD	40.76	324	eP	23 13.00	-5.2X	
CHTO	41.34	212	e(P)	23 25.10	1.6	
FBA	41.44	40	eP	23 24.50	0.6	
MBC	41.71	18	eP	23 26.00	0.1	
PMR	42.87	45	ePc	23 35.60	0.0	
	0.7s	6.60nm		4.5mb		
TOA	43.68	43	eP	23 43.30	1.1	
INK	43.90	31	eP	23 44.00	0.2	
DAG	44.05	348	eP	23 44.50	-0.4	
MAIO	44.92	270	eP	23 54.00	1.4	
NUR	45.59	316	iP	24 07.00	9.6X	
	0.5s	11.20nm		5.0mb		
HFS	49.80	321	eP	24 28.50	-1.8	
	0.5s	2.40nm		4.5mb		
NB2	49.97	323	P	24 29.40	-2.2	
	0.9s	9.40nm		4.8mb		
YKA	53.46	28	eP	24 56.30	-1.5	
	1.1s	3.60nm		4.3mb		
BRG	56.71	313	e(P)	25 30.20	8.6X	
	1.2s	19.00nm		5.0mb		
MOX	57.81	315	e(P)	25 38.00	8.6X	
KHC	58.22	312	eP	25 38.40	6.0X	
EKA	59.10	326	P	25 45.00	6.7X	
	0.7s	8.50nm		5.0mb		
PNT	63.01	40	eP	26 05.00	0.1	
FFC	63.45	26	eP	26 15.00	7.4X	
	0.8s	8.00nm		4.9mb		
SES	64.87	34	eP	26 19.00	2.0	
LRM	68.46	37	eP	26 48.50	8.4X	
WRA	77.51	167	P	27 35.00	2.0	
	1.2s	1.80nm		4.0mb		

S.D. = 1.4 on 32 of 45 obs.

? JAN 09, 1991 08h 41m 24.63± 0.93s
17.891 S ±16.2km 179.116 W ±35.8km
DEPTH = 659.8 ± 12.0 km
4.2mb (2 obs.)
FIJI ISLANDS REGION (181)

MBU	2.26	294	eP	42 45.90	-0.7	
SVA	2.32	264	eP	42 46.10	-0.6	
SGE	2.84	276	eP	42 49.60	1.3	
NDF	3.27	272	ePd	42 53.50	3.1X	
WLZ	20.41	192	eP	45 22.50	1.0	
LTZ	25.87	195	P	46 08.70	-1.0	
PNT	85.10	34	eP	52 54.00	-0.1	
	0.6s	4.00nm		4.2mb		
CHTO	88.36	290	e(P)	53 09.90	-0.1	
	1.0s	4.75nm		4.2mb		
SES	90.40	36	eP	53 19.00	0.2	
CLL	145.29	347	iPKPc	59 53.70	3.3X	
	1.0s	13.00nm				
BRG	145.48	345	i(PKP)	59 54.10	3.3X	
	0.7s	10.00nm				
GRR	149.55	2	ePKP	00 03.60	6.4X	
	0.9s	9.85nm				
LJU	149.73	341	e(PKP)	00 05.00	7.4X	
			e	00 42.00		
LPF	149.90	3	ePKP	00 04.60	6.9X	
	0.8s	16.10nm				
VBY	149.97	340	e(PKP)	00 06.50	8.6X	
			e	00 47.30		
LOR	150.60	356	ePKP	00 06.60	7.7X	
	1.0s	15.00nm				
	Z 20s	0.40um		5.2Msz		
SSF	150.83	356	ePKP	00 07.20	8.0X	
	0.8s	8.75nm				
LBF	150.87	356	ePKP	00 07.10	7.8X	

S.D. = 1.1 on 8 of 18 obs.

JAN 09, 1991 08h 41m 48.88± 0.99s
5.502 S ± 4.2km 151.899 E ± 4.7km
DEPTH = 41.2 ± 9.1 km
5.3mb (26 obs.) 4.9Msz (12 obs.)
NEW BRITAIN REGION (192)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 32C
Centroid Location:
Origin Time 08:41:55.0 0.4
Lat 5.36S 0.06 Lon 152.11E 0.05
Dep 15.0 FIX Half-duration 2.1
Moment Tensor; Scale 10**17 Nm
Mrr= 1.04 0.05 Mtt=-0.99 0.07
Mff=-0.05 0.05 Mrt= 1.78 0.18
Mrf= 0.43 0.15 Mtf=-0.57 0.05
Principal Axes:
T Val= 2.08 Plg=60 Azm=355
N 0.17 7 253
P -2.25 29 160
Best Double Couple:Mo=2.2*10**17
NP1:Strike=231 Dip=17 Slip= 67
NP2: 75 74 97

RAB	1.33	12	iPd-	42 12.00	0.7	
SVO	8.65	115	eP	43 54.00	-0.5	
			eS	45 31.00		
HNR	8.88	117	eP	43 56.00	-1.7	
			eS	45 34.00		
OIS	19.15	217	iPd	46 12.00	0.3	
	0.6s	37.00nm		4.8mb		
			i	46 18.20		
GUA	20.15	340	eP	46 23.40	0.8	
	1.1s	546.84nm		5.8mb		
PJG	20.21	340	eP	46 23.00	-0.2	
			e	46 30.70		
RMQ	21.08	188	iPd	46 33.70	1.5	
			i	46 37.80		
DZM	21.66	141	iPc	46 37.50	-0.6	
MTN	21.75	249	eP	46 40.10	1.2	
	0.3s	48.00nm		5.4mb		
BRS	21.78	178	iP	46 40.10	0.9	
			iSS	50 55.00		
KNA	24.88	244	eP	47 10.60	1.1	
	0.4s	109.00nm		5.8mb		
COO	24.94	180	e(P)	47 10.00	0.0	
ASPA	25.03	222	iPc	47 11.20	0.3	
	0.6s	117.50nm		5.6mb		
	Z 20s	2.70um		4.8Msz		
			ipP	47 19.80	31kmX	
			iS	51 37.50		
CMS	26.47	192	iPc	47 23.20	-0.9	
DAV	29.09	295	eP	47 47.00	-1.1	
WARB	31.71	227	eP	48 11.50	0.4	
	0.4s	10.00nm		5.0mb		
ADE	31.75	201	e(P)	48 11.70	0.2	
BFD	32.67	194	eP	48 20.00	0.7	
FORR	33.70	219	eP	48 28.00	-0.4	
	0.4s	22.00nm		5.4mb		
MBL	34.76	240	eP	48 35.00	-2.7	
	0.5s	20.00nm		5.3mb		
PPR	36.37	295	iPc	48 52.00	0.7	
BAG	37.87	306	eP	49 04.50	0.4	
MRWA	41.31	231	eP	49 33.00	0.6	
	0.4s	4.00nm		4.5mb		
MAT	43.74	344	(P)	49 45.00	-7.1X	
	Z 20s	0.71um		4.6Msz		
			eS	56 22.00		
SSE	46.75	323	eP	50 24.00	8.0X	
	Z 20s	1.90um		5.0Msz		
	N 18s	1.40um				
			S	57 03.00		
			i	57 16.00		
			sS	57 24.00		
NJ2	48.83	322	Pc	50 33.00	0.7	
	Z 19s	0.90um		4.8Msz		
WHN	50.75	317	Pd	50 49.50	2.5	
SNY	53.73	334	eP	51 12.00	2.9	
	Z 22s	0.90um		4.8Msz		
GYA	54.11	308	P	51 12.60	0.2	
CN2	54.58	337	eP	51 17.00	1.6	
	Z 16s	1.70um		5.2MszX		

09d 08h

```
      N  14s      0.30um                          |
      E  14s      0.20um                          |
BJI     55.99 327 (P)    51 22.50  -3.1X          |
      Z  19s      1.18um           5.0Msz         |
XAN     56.52 317 Pc     51 28.40  -1.2           |
TIY     56.53 323 eP     51 29.40  -0.3           |
      Z  22s      1.60um           5.1Msz         |
      N  18s      1.60um                          |
CHG     57.48 296 eP     51 37.00   0.3           |
CHTO    57.48 296 iPc    51 36.30  -0.4           |
        1.3s     33.09nm           5.2mb          |
                   pP    51 44.20  26kmX          |
CD2     58.52 311 Pc     51 43.00  -0.8           |
        1.6s    100.00nm           5.7mb          |
      Z  22s      1.90um           5.2Msz         |
HHC     59.10 325 eP     51 47.00  -0.7           |
BTO     59.83 324 eP     51 52.00  -0.7           |
LZH     61.11 317 eP     52 01.00  -0.7           |
        1.4s     41.00nm           5.4mb          |
      Z  21s      0.73um           4.8Msz         |
GTA     65.56 318 iPc    52 30.20  -0.7           |
        3.2s    260.00nm           5.7mb X        |
      Z  20s      0.90um           5.0Msz         |
      E  19s      1.10um                          |
GUN     71.72 302 P      53 08.98  -0.6           |
        0.8s     70.00nm           5.7mb          |
PKI     72.02 301 P      53 10.38  -1.0           |
        1.0s     30.00nm           5.2mb          |
VNDA    72.16 178 P      53 11.00   0.2           |
KKN     72.19 301 P      53 11.44  -0.8           |
        0.7s     39.00nm           5.5mb          |
DMN     72.29 301 P      53 12.20  -0.7           |
GKN     72.80 301 P      53 14.88  -0.9           |
WMQ     75.65 318 P      53 31.50  -0.3           |
        4.0s    600.00nm           5.9mb X        |
      Z  20s      0.40um           4.7Msz         |
KOD     75.75 282 eP     53 31.90  -1.3           |
HYB     75.88 289 eP     53 32.50  -1.0           |
                  e      53 40.00                 |
GBA     76.29 285 P      53 36.00   0.2           |
KDC     77.23  27 eP     53 39.50  -0.6           |
SVW     77.81  23 ePc    53 43.80   0.4           |
        0.6s     20.50nm           5.3mb          |
TTA     78.75  22 ePc    53 48.60   0.0           |
NDI     79.31 300 eP     53 50.00  -2.2           |
PMR     80.69  25 iPc    53 58.20  -0.7           |
        0.6s     13.50nm           5.1mb          |
IMA     81.41  20 ePc    54 02.60  -0.2           |
        0.8s      6.60nm           4.7mb          |
KLU     81.99  25 P      54 05.80   0.0           |
TOA     82.17  25 ePc    54 07.10   0.4           |
FBA     82.87  22 ePc    54 08.70  -1.5           |
        0.8s     29.10nm           5.4mb          |
SIT     85.34  32 ePc    54 23.80   1.1           |
        0.7s     15.50nm           5.3mb          |
INK     89.43  21 ePc    54 41.60  -0.8           |
WDC     90.17  49 ePc    54 46.90   0.5           |
CMB     91.55  52 ePc    54 53.50   0.6           |
ISA     92.87  55 eP     55 02.00   3.0X          |
MWC     93.09  56 eP     55 02.00   1.7           |
PNT     93.14  41 eP     55 00.00   0.1           |
SBB     93.32  56 eP     55 02.00   0.9           |
CLC     93.59  55 eP     55 03.00   0.7           |
PEC     93.81  56 P      55 04.00   0.6           |
TNP     94.05  52 P      55 04.80   0.2           |
        1.1s      9.74nm           5.1mb          |
GSC     94.20  55 eP     55 06.00   0.8           |
NEW     94.72  42 P      55 06.50  -0.7           |
        0.8s     11.67nm           5.4mb          |
MBC     95.00  14 eP     55 08.00   0.0           |
        1.0s      6.00nm           5.0mb          |
YKA     96.46  28 eP     55 13.80  -1.0           |
        0.7s      3.40nm           5.0mb          |
SES     98.71  40 ePc    55 25.50   0.2           |
BW06    99.98  48 P      55 30.00  -1.5           |
        0.8s      2.98nm           4.9mb          |
GOL    103.29  51 Pdiff  55 45.50  -0.9           |
        1.2s      7.38nm           5.3mb          |
NAI    114.83 266 ePdiff56 55.00  16.7X          |
SKO    123.04 317 ePKP   00 38.00  -4.8X          |
OHR    123.84 317 ePKP   00 41.00  -3.5X          |
KHC    124.07 328 PKP    00 45.50   0.9           |
BCAO   133.54 271 ePKPd  01 03.50  -0.2           |
        0.7s      3.00nm                          |
                    id   01 12.00                 |
CNCB   134.77 120 PKP    01 08.00   1.3           |
LPB    134.79 120 ePKP   00 59.00  -7.5X          |
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ZOBO   134.88 119 PKP    01 07.00   0.1           |
      Z  20s      0.22um           4.9Msz         |
                    LR   45 32.00                 |
SIV    141.00 124 PKP    01 03.50 -14.0X          |
                     i    01 11.60                 |
PPD    144.43 141 ePKP   01 19.70  -3.6X          |
VAO    146.20 148 ePKP   01 32.80   6.4X          |
AVE    146.30 328 iPKPc  01 27.80   1.7           |
                     i    01 52.00                 |
TIO    148.01 325 iPKP   01 32.00   2.9X          |
                     i    01 39.60                 |
BAO    151.21 137 ePKPd  01 40.50   6.1X          |
SHGH   152.08 272 ePKP   01 42.00   6.4X          |
KOGH   152.28 273 ePKP   01 42.50   6.6X          |
WEGH   152.36 272 ePKP   01 42.50   6.5X          |
KUK    152.41 273 ePKP   01 42.70   6.6X          |
KIC    156.75 273 PKP    01 57.10  15.2X          |
      S.D. = 1.0   on  78 of  96 obs.              |
-------------------------------------------------|
?  JAN  09, 1991  09h 13m 34.46± 0.77s           |
   16.200 N ±15.7km   61.427 W ±10.7km           |
   DEPTH =  33.0km  (normal)                     |
 LEEWARD ISLANDS                        ( 92)    |
                                                 |
SEG      0.21 340 eP     13 41.22   0.0           |
                     S    13 51.90                 |
SFG      0.23  77 eP     13 42.01   0.7           |
DOG      0.25 228 eP     13 41.75   0.1           |
                     S    13 53.60                 |
PAG      0.30 235 eP     13 42.00  -0.2           |
DEG      0.37  72 eP     13 42.63  -0.6           |
                     S    13 55.50                 |
      S.D. = 0.7   on   5 of   5 obs.              |
-------------------------------------------------|
   JAN  09, 1991  09h 37m 43.08± 0.67s           |
   43.443 N ± 4.6km    5.432 E ± 5.2km           |
   DEPTH =  10.0km  (geophysicist)               |
 NEAR SOUTH COAST OF FRANCE             (379)    |
      MD 2.5 (STR).                              |
                                                 |
GELF     0.06 183 Pg     37 44.91  -0.5           |
TREF     0.18 349 Pg     37 46.87  -0.3           |
PUYF     0.21  65 Pg     37 46.98  -0.8           |
BERF     0.23 124 Pg     37 48.30   0.2           |
PRAF     0.41 332 Pg     37 51.76   0.3           |
VILF     0.46  27 Pg     37 52.47   0.0           |
TAVF     0.49  69 Pg     37 52.47  -0.5           |
MVIF     1.33  69 Pn     38 08.07   0.4           |
TOUF     1.44  66 Pn     3B 09.94   0.6           |
                    Sg    38 30.87                 |
AURF     1.45  71 Pn     38 09.20  -0.2           |
                    Sg    38 28.90                 |
AUTN     1.55  68 Pn     38 11.26   0.3           |
                    Sg    38 32.32                 |
SAOF     1.63  70 Pn     38 12.15   0.2           |
PGF      2.77 108 Pn     38 19.68  -8.7X          |
      S.D. = 0.5   on  12 of  13 obs.              |
-------------------------------------------------|
%  JAN  09, 1991  10h 10m 18.71± 0.86s           |
   39.105 N ± 7.0km   27.505 E ±13.1km           |
   DEPTH =  10.0km  (geophysicist)               |
 TURKEY                                 (366)    |
      MD 2.7 (ISK).                              |
                                                 |
IZM      0.73 195 ePn    10 33.00  -0.1           |
                    eSg   10 46.80                 |
DST      1.00  60 ePn    10 38.00   0.2           |
EDC      1.27  12 ePn    10 42.00  -0.3           |
BNT      1.29  14 iPn    10 42.10  -0.5           |
KCT      1.32  30 ePn    10 43.10   0.0           |
KGT      1.35 353 iPn    10 44.20   0.6           |
      S.D. = 0.5   on   6 of   6 obs.              |
-------------------------------------------------|
%  JAN  09, 1991  10h 22m 33.88± 1.09s           |
   17.598 S ±12.9km  123.980 E ±10.3km           |
   DEPTH =  10.0km  (geophysicist)               |
   4.3mb (  1 obs.)                              |
 WESTERN AUSTRALIA                      (590)    |
                                                 |
KNA      4.94  69 eP     23 50.80   0.9           |
                    eS    24 42.00                 |
MBL      5.28 227 eP     23 56.70   2.0           |
        0.2s      7.00nm           4.9mb X        |
                    eS    24 54.00                 |
MTN      8.36  57 eP     24 37.00  -1.1           |
        0.3s     53.00nm           6.3mb X        |
                    eS    26 04.00                 |
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WARB     8.89 164 iPc    24 48.30   2.9X          |
        0.2s     23.00nm           6.2mb X        |
                    eS    26 23.70                 |
MEKA    10.29 208 eP     25 05.30   0.6           |
                    eS    26 52.00                 |
ASPA    11.08 125 eP     25 17.00   1.5           |
        0.3s     24.00nm           6.0mb X        |
                    iS    27 15.20                 |
COOL    13.48 191 eP     25 47.70   0.0           |
        0.3s      3.00nm           4.8mb X        |
                    eS    28 01.00                 |
MRWA    13.69 211 eP     25 49.70  -0.7           |
        0.3s      1.00nm           4.2mb X        |
                    eS    28 09.40                 |
FORR    13.72 165 iPd    25 50.40  -0.4           |
        0.4s     32.00nm           5.6mb X        |
                    eS    28 13.00                 |
BAL     14.55 206 eP     26 01.30  -0.4           |
                    eS    28 29.00                 |
KLB     15.03 201 eP     26 07.50  -0.5           |
        0.3s      3.00nm           4.3mb          |
                    eS    28 41.50                 |
QIS     15.06 104 e(P)   26 08.00  -0.5           |
                    eS    28 44.00                 |
MUN     15.95 205 eP     26 19.70  -0.3           |
                    eS    29 03.00                 |
NWAO    16.43 200 eP     26 25.00  -1.1           |
                    eS    29 11.00                 |
      S.D. = 1.1   on  13 of  14 obs.              |
-------------------------------------------------|
*  JAN  09, 1991  11h 19m 08.52± 1.14s           |
   5.421 S ±10.9km  151.878 E ±16.3km            |
   DEPTH =  54.5 ±  9.2 km                       |
   4.8mb (  8 obs.)                              |
 NEW BRITAIN REGION                     (192)    |
                                                 |
RAB      1.26  13 iPd    19 30.00  -0.1           |
                    iS    19 52.80                 |
PMG      6.13 229 eP     20 39.00   0.2           |
QIS     19.20 217 eP     23 30.00  -1.0           |
ASPA    25.08 222 eP     24 30.60   0.9           |
        0.6s     24.80nm           4.9mb          |
CHTO    57.43 296 e(P)   28 55.00   0.6           |
        1.2s      4.51nm           4.4mb          |
GUN     71.66 302 P      30 27.22  -0.1           |
        0.7s     12.00nm           4.9mb          |
PKI     71.96 301 P      30 28.52  -0.6           |
        0.8s      8.00nm           4.7mb          |
KKN     72.13 301 P      30 29.76  -0.2           |
        0.7s     10.00nm           4.9mb          |
DMN     72.23 301 P      30 30.56   0.0           |
        0.9s     14.00nm           4.9mb          |
GKN     72.74 301 P      30 33.26  -0.2           |
        0.8s     14.00nm           5.0mb          |
INK     89.36  21 eP     32 00.50   0.4           |
MBC     94.93  14 eP     32 26.00   0.4           |
YKA     96.40  28 eP     32 32.00  -0.5           |
        0.4s      0.50nm           4.4mb          |
      S.D. = 0.6   on  13 of  13 obs.              |
-------------------------------------------------|
?  JAN  09, 1991  11h 23m 11.64± 7.27s           |
   2.942 N ±16.9km   74.803 W ±58.9km            |
   DEPTH =  33.0km  (normal)                     |
 COLOMBIA                               (103)    |
      MD 4.0 (UVC).                              |
                                                 |
DIAC     1.43 284 iPd    23 35.17  -0.6           |
SILC     1.56 261 iPd    23 37.16  -0.5           |
PURC     1.67 248 eP     23 39.55   0.0           |
                    eS    24 01.80                 |
BUGC     1.73 303 ePc    23 40.08   0.1           |
SALC     1.89 271 iPd    23 43.20   0.9           |
                    eS    24 08.30                 |
HOOC     1.90 286 iPd    23 42.89   0.3           |
                    eS    24 08.00                 |
HOBC     1.93 317 eP     23 43.15   0.2           |
                    eS    24 08.50                 |
CLMC     1.99 298 eP     23 43.12  -0.7           |
                    eS    24 08.40                 |
ANCC     2.14 285 eP     23 46.10   0.3           |
                    eS    24 14.00                 |
      S.D. = 0.6   on   9 of   9 obs.              |
-------------------------------------------------|
*  JAN  09, 1991  12h 41m 17.21± 1.93s           |
   1.342 N ±13.1km   98.621 E ±12.0km            |
   DEPTH = 110.4 ± 15.4 km                       |
   4.8mb (  9 obs.)                              |
```

09d 12h

NORTHERN SUMATERA (706)

IPM	4.01	37	ePd	42	19.70	2.0
	0.7s	197.50nm				
			e	43	02.40	
KGM	4.74	82	iPd	42	26.20	-1.5
	0.6s	493.60nm				
SNG	6.13	19	ePd	42	46.20	-0.6
	0.7s	124.66nm			5.3mb	
PCT	13.54	12	iPd	44	31.50	5.6X
	0.5s	1.50nm			3.7mb	X
LOE	16.25	11	eP	45	02.50	2.1
CHG	17.37	1	eP	45	13.00	-1.2
CHTO	17.37	1	iP	45	13.00	-1.2
GBA	24.25	301	P	46	25.00	-0.3
HYB	25.39	310	eP	46	38.00	2.0
GYA	26.14	17	P	46	43.20	0.2
PKI	28.99	335	P	47	08.38	-0.7
	0.6s	15.00nm			4.8mb	
GUN	29.10	336	P	47	09.80	-0.2
	0.6s	111.00nm			5.7mb	
DMN	29.15	335	P	47	09.82	-0.6
KKN	29.24	335	P	47	10.48	-0.6
GKN	29.70	334	P	47	14.56	-0.5
CD2	29.81	9	eP	47	15.00	-0.9
XAN	33.93	15	Pc	47	50.80	-1.0
LZH	34.91	7	Pd	48	00.00	-0.3
	1.4s	27.00nm			4.9mb	
GTA	37.90	2	Pd	48	25.80	0.4
	0.9s	20.00nm			5.0mb	
BJI	41.70	20	eP	48	58.00	1.5
	1.0s	18.00nm			4.8mb	
ASPA	42.35	128	eP	49	02.80	0.6
	1.1s	3.90nm			4.1mb	
WMQ	43.40	348	P	49	11.50	1.0
SNY	46.14	26	Pc	49	32.60	0.4
	1.0s	10.00nm			4.6mb	
CN2	48.55	26	Pd	49	50.80	-0.2
SOD	81.89	338	eP	53	35.00	9.7X
KEV	82.44	341	eP	53	32.00	3.9X
HFS	86.31	330	eP	53	47.30	-0.4
	0.5s	2.40nm			4.4mb	
S.D. = 1.1 on 24 of 27 obs.						

JAN 09, 1991 12h 44m 31.76± 0.80s
41.098 N ± 7.4km 22.449 E ± 6.3km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.9 (SKO).

GRG	0.15	194	iPc	44	35.28	0.1
			eS	44	38.08	
VAY	0.24	22	iPg	44	36.60	-0.3
			iSg	44	40.40	
KNT	0.34	79	iPd	44	39.00	0.1
			eS	44	44.08	
THE	0.61	140	ePc	44	42.88	-1.1
			eS	44	51.12	
SOH	0.74	112	ePd	44	47.48	1.2
			iS	44	56.00	
SRS	0.86	88	ePc	44	48.21	-0.2
			iS	44	59.36	
FNA	0.87	249	ePc	44	48.76	0.2
			eS	45	05.80	
S.D. = 0.8 on 7 of 7 obs.						

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* JAN 09, 1991 12h 53m 37.59± 0.53s
11.514 S ± 8.7km 166.370 E ± 9.7km
DEPTH = 33.0km (normal)
5.2mb (8 obs.) 3.8Msz (1 obs.)
SANTA CRUZ ISLANDS (184)

HNR	6.65	288	eP	55	16.00	0.5
			eS	56	29.00	
SVO	6.86	289	eP	55	19.00	0.4
			eS	56	31.00	
VSG	6.92	288	eP	55	20.00	0.6
			eS	56	33.00	
DZM	10.50	180	iPc	56	09.00	0.0
			iS	58	25.40	
BRS	20.31	217	iPd	58	14.90	1.2
WRA	31.90	251	P	00	21.00	18.6X
	0.8s	1.50nm				
ASPA	33.14	244	iPd	00	10.70	-2.5
	0.8s	10.80nm			4.8mb	
Z	22s	0.20um			3.8Msz	
CN2	66.46	329	eP	04	25.00	-0.9
XAN	70.89	312	Pc	04	53.00	-0.7
CHTO	72.97	294	iPc	05	06.10	-0.2
	1.0s	11.75nm			4.8mb	
CD2	73.37	307	eP	05	08.00	-0.5
LZH	75.52	312	Pc	05	22.00	1.0
	1.2s	29.00nm			5.2mb	
GTA	79.82	314	Pc	05	45.00	0.4
	1.1s	10.00nm			4.7mb	
GUN	87.08	299	Pc	06	22.12	0.0
PKI	87.40	299	Pc	06	23.40	-0.2
	1.0s	30.00nm			5.5mb	
KKN	87.56	299	Pc	06	24.10	-0.2
	0.9s	22.00nm			5.4mb	
DMN	87.67	299	Pc	06	24.88	0.0
	0.9s	56.00nm			5.9mb	
GKN	88.17	299	Pc	06	26.48	-0.6
	0.9s	51.00nm			5.9mb	
WMQ	89.86	315	P	06	34.50	-0.2
HYB	91.34	287	eP	06	41.50	-0.4
YKA	95.11	27	eP	06	58.70	0.4
	0.6s	0.40nm			4.0mb	X
SOB1	145.96	126	ePKP	13	15.80	0.0
			e	13	28.90	
BCAO	147.40	260	iPKPc	13	19.90	1.7
	0.2s	104.00nm				
			ic	13	31.00	
S.D. = 0.9 on 22 of 23 obs.						

? JAN 09, 1991 13h 01m 27.21± 1.15s
39.180 N ±10.0km 27.528 E ±18.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

IZM	0.81	195	ePg	01	42.90	0.0
			eSg	01	53.90	
DST	0.95	63	iPn	01	45.50	0.1
BNT	1.21	14	ePn	01	50.00	0.2
KCT	1.24	31	ePn	01	50.00	-0.3
S.D. = 0.4 on 4 of 4 obs.						

JAN 09, 1991 13h 10m 47.54± 0.25s
42.403 N ± 3.2km 16.712 E ± 2.5km
DEPTH = 14.8 ± 2.0 km
ADRIATIC SEA (382)
MD 4.2 (TRI). ML 3.7 (KBA), 3.4 (TTG), 3.4 (ROM), 3.1 (LJU).

HVAR	0.80	346	iPg	11	02.60	0.0
			iSg	11	14.80	
BAI	1.29	175	P	11	08.00	-2.9X
			eSg	11	28.00	
HCY	1.32	87	iPgd	11	12.17	0.7
			iSg	11	33.57	
BRY	1.44	69	iPnd	11	14.10	0.9
			iSn	11	37.90	
BRT	1.57	166	P	11	14.30	-0.6
			eSn	11	34.10	
BDV	1.57	94	iPnc	11	16.20	1.2
			iSn	11	39.67	
NKY	1.74	76	iPnc	11	19.12	1.7
			iSn	11	44.70	
DUI	1.84	247	P	11	20.00	1.2
TTG	1.89	88	iPnc	11	20.65	1.2
			iSn	11	47.88	
ULC	1.94	102	iPnd	11	20.98	0.7
			iSn	11	48.80	
SGO	2.12	210	P	11	22.30	-0.6
PLE	2.18	64	iPnd	11	25.92	2.1
			iSn	11	56.12	
SDI	2.27	253	P	11	25.90	0.8
			eSn	11	51.60	
LCI	2.27	155	Pd	11	25.00	0.0
ORI	2.35	185	P	11	26.50	0.4
IVA	2.40	78	iPnc	11	28.85	1.9
			iSn	12	01.20	
PVY	2.42	84	iPnd	11	28.90	1.6
			iSn	12	00.92	
AQU	2.45	270	P	11	29.20	1.5
AZI	2.47	261	P	11	29.00	1.2
TDS	2.76	186	P	11	31.80	-0.2
ARV	2.98	293	P	11	35.60	0.5
MNS	2.99	271	P	11	36.00	0.8
RMP	3.04	260	P	11	35.50	-0.5
RDP	3.04	259	P	11	35.50	-0.5
ASS	3.06	284	P	11	37.80	1.5
VBY	3.27	342	ePnc	11	40.00	0.7
			iSn	12	19.90	
OHR	3.32	112	iPn	11	41.10	1.1
RIY	3.39	331	e(Pn)	11	40.20	-0.6
			iSn	12	21.20	
PTJ	3.54	351	iPnc	11	43.20	0.1
			eSn	12	27.40	
SKO	3.54	95	ePn	11	51.60	8.5X
			eSn	12	39.50	
			LO	12	56.50	
			LR	13	10.00	
BEO	3.64	47	ePn	11	55.00	10.5X
			e(Sn)	12	43.50	
CRE	3.70	291	P	11	46.60	1.1
CEY	3.72	335	ePnc	11	45.50	-0.2
			eSn	12	30.00	
FNA	3.85	113	ePd	11	47.32	-0.3
			eS	12	31.88	
SFI	3.87	295	P	11	48.80	1.1
TRI	3.93	328	e(Pn)	11	48.10	-0.4
			iSn	12	34.20	
			iSg	12	52.00	
LJU	3.96	337	ePnc	11	49.00	0.0
			iSn	12	36.30	
IGT	3.97	135	ePd	11	48.08	-1.0
			eS	12	32.24	
VOY	4.16	332	iPnc	11	51.60	-0.3
			eSn	12	40.40	
VAY	4.51	102	ePn	11	56.30	-0.5
MME	4.74	294	P	12	01.10	0.7
BDI	4.77	292	P	12	00.20	-0.4
BZS	4.78	46	ePc	12	05.00	4.4X
LIT	4.92	116	ePc	12	01.04	-1.7
FVI	5.05	327	P	12	05.00	0.7
CTI	5.15	317	P	12	06.00	0.0
KBA	5.25	334	iPnc	12	06.60	-0.9
			i	12	38.90	
			iSn	13	03.80	
			i	13	06.80	
			i	13	48.40	
AGG	5.44	126	iPd	12	09.44	-0.7
SRO	5.53	11	eP	12	10.10	-1.1
			e	12	19.00	
			e	13	40.80	
BOB	5.78	297	P	12	15.10	0.2
ZST	5.80	3	eP	12	20.30	5.3X
PAIG	5.81	113	iPd	12	09.14	-6.0X
BHG	5.97	334	iPnd	12	17.30	-0.1
MDI	6.07	306	P	12	18.60	-0.1
SOTA	6.21	323	i(Pn)	12	16.80	-4.1X
			i	12	25.10	
			iSn	13	09.50	
			i	13	29.80	
KHC	7.08	343	ePg	12	39.00	6.0X
			Sg	13	49.50	
PRU	7.73	350	ePg	12	40.00	-2.2
			eSg	14	09.00	
BNI	7.74	293	P	12	43.00	0.6
GRF	8.23	334	e(Pg)	13	21.00	31.9X
			e(Sg)	14	15.00	
S.D. = 1.0 on 50 of 59 obs.						

JAN 09, 1991 14h 18m 50.45± 0.59s
13.825 N ± 5.2km 144.945 E ± 7.0km
DEPTH = 136.4 ± 5.4 km
4.9mb (18 obs.)
MARIANA ISLANDS (216)
Felt in northern Guam.

PJG	0.25	198	iPc	19	10.40	-0.1
GUA	0.29	187	iPd	19	10.50	-0.1
			eS	19	23.30	
PMG	23.19	174	eP	23	45.00	-1.0
QIS	34.57	189	iPc	25	27.90	-0.1
	0.6s	20.00nm			5.1mb	
WRA	35.14	198	P	25	41.00	8.1X
	0.5s	2.90nm			4.3mb	
TIY	37.41	315	eP	25	52.80	0.9
ASPA	38.79	196	eP	26	03.40	-0.1
	0.5s	18.40nm			5.1mb	
RMQ	40.24	175	iPc	26	17.00	1.6
CD2	41.44	301	P	26	25.60	0.3
DZM	41.44	149	iPd	26	27.10	1.8
BRS	41.67	170	iPd	26	29.20	2.1
MBL	42.63	216	eP	26	35.00	0.1
	0.4s	3.00nm			4.3mb	
LZH	42.93	309	eP	26	38.20	0.7
	1.5s	20.00nm			4.6mb	

09d 14h

```
WARB   43.57 204 iPc   26 43.70   1.1
       0.4s    13.00nm          5.0mb
GTA    47.07 311 eP    27 11.00   0.6
       1.2s    10.00nm          4.4mb
FORR   47.28 200 eP    27 12.00   0.2
       0.4s    56.00nm          5.6mb
ADE    48.88 187 iPc   27 24.90   0.7
       0.6s    24.00nm          5.2mb
BFD    50.78 182 eP    27 40.00   1.5
TOO    51.12 179 iPc   27 42.70   1.5
       0.7s    34.00nm          5.3mb
GUN    56.46 294 P     28 20.52  -0.5
       0.5s    17.00nm          5.3mb
PKI    56.87 294 P     28 22.92  -0.9
       0.4s     5.00nm          4.8mb
KKN    56.99 294 P     28 23.78  -0.8
       0.5s     8.00nm          4.9mb
WMQ    57.03 313 P     28 24.50   0.1
              pP       28 55.50 130kmX
DMN    57.14 294 P     28 25.16  -0.5
       0.5s    10.00nm          5.0mb
GKN    57.56 294 P     28 27.66  -0.8
       0.4s    20.00nm          5.4mb
TCW    61.11 155 P     28 51.30  -1.0
MNG    61.12 154 eP    28 50.90  -1.5
MRW    61.31 155 P     28 52.30  -1.3
CAW    61.35 154 P     28 53.00  -1.0
WDW    61.46 155 P     28 53.30  -1.3
MTW    61.58 154 P     28 54.10  -1.4
BLW    61.74 154 eP    28 55.50  -1.1
KHZ    61.83 156 eP    28 55.20  -1.9
INK    74.12  22 eP    30 12.00  -1.0
MBC    78.03  14 eP    30 34.00  -0.8
       0.5s     2.00nm          4.1mb
YKA    82.62  27 eP    30 58.80  -0.5
       0.5s     3.20nm          4.4mb
WDC    83.03  50 ePc   31 02.50   0.6
PNT    83.15  41 eP    31 02.00  -0.4
       0.8s    11.00nm          4.8mb
MIN    83.77  50 eP    31 05.80  -0.1
BRK    83.82  53 eP    31 12.50   6.6X
ORV    84.03  51 eP    31 08.30   1.3
CM8    85.23  52 eP    31 13.60   0.5
FRI    86.00  53 ePc   31 17.10   0.3
ISA    87.30  54 eP    31 24.00   0.7
CLC    87.95  54 eP    31 27.00   0.6
MWC    88.00  55 eP    31 27.00   0.2
SBB    88.06  55 eP    31 28.00   1.0
SES    88.17  38 eP    31 26.00  -1.2
GSC    88.71  54 eP    31 31.00   0.9
LRM    88.77  43 eP    31 30.30  -0.1
GLA    90.92  56 eP    31 41.00   0.7
KIC   143.84 302 PKP   38 09.62  -2.4X
       0.3s     2.50nm
TIC   143.91 302 PKP   38 09.64  -2.5X
LIC   144.15 302 PKP   38 10.54  -2.0X
ZOBO  147.99  99 PKP   38 24.00   4.5X
LPB   148.02  99 (PKP) 38 17.00  -2.3X
CNCB  148.13 100 PKP   38 24.90   5.2X
     S.D. = 1.0  on  49 of  57 abs.
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   JAN  09, 1991  15h 08m 53.58± 0.12s
    5.396 S ± 3.2km  151.837 E ± 3.4km
   DEPTH =  27.7km  (geophysicist)
   5.9mb ( 44 abs.)  5.9Msz ( 40 obs.)
 NEW BRITAIN REGION              (192)
      Ms 6.2 (BRK), 5.8 (PAS).
      Mo=1.0*10**18 Nm (PPT). Depth
      from broadband displacement
      seismograms.
      FAULT PLANE SOLUTION: P-Waves
       NP1:Strike= 98 Dip=63 Slip=  90
       NP2:       278     27        90
       Principal Axes:
        T                Plg=72  Azm=  8
        P                  18        188
      Comment: The focal mechanism is
        poorly controlled and
        corresponds to reverse
        faulting. The preferred fault
        plane is NP2.
      RADIATED ENERGY
       No. of sta:  10  Focal mech.  F
       Energy        1.4±0.4*10**12 Nm
      MOMENT TENSOR SOLUTION
      Dep  20            No. of sta: 15
      Moment Tensor;   Scale 10**18 Nm
        Mrr= 0.73        Mtt=-0.67
        Mff=-0.06        Mrt= 1.13
        Mrf= 0.24        Mtf=-0.20
       Principal axes:
        T  Val=  1.37  Plg=61  Azm=350
        N        0.00      2       256
        P       -1.36     29       165
       Best Double Couple:Mo=1.4*10**18
        NP1:Strike=249 Dip=16 Slip=  82
        NP2:        77    74        92
       CENTROID, MOMENT TENSOR     (HRV)
       Data Used: GDSN
       L.P.B.: 24S, 62C
       Centroid Location:
       Origin Time        15:09: 3.0 0.3
       Lat  5.40S 0.03 Lon 152.09E 0.02
       Dep  15.0 FIX Half-duration  4.3
       Moment Tensor;   Scale 10**18 Nm
        Mrr= 1.19 0.02   Mtt=-1.16 0.03
        Mff=-0.03 0.03   Mrt= 1.63 0.08
        Mrf= 0.29 0.07   Mtf=-0.48 0.02
       Principal Axes:
        T  Val=  2.02  Plg=63  Azm=357
        N        0.12      6       256
        P       -2.15     26       163
       Best Double Couple:Mo=2.1*10**18
        NP1:Strike=240 Dip=19 Slip=  73
        NP2:        78    71        96

RAB     1.24  16 iPd-  09 18.50   3.3
PMG     6.12 229 eP    10 26.00   1.4
MNDI    8.17 264 eP    11 04.00  10.4X
VSG     8.70 117 iP    11 01.00   0.3
                eS     12 40.00
SVO     8.75 116 eP    11 01.00  -0.3
HNR     8.99 117 eP-   11 03.00  -1.6
                eS     12 34.00
QIS    19.19 217 iPd   13 18.00  -0.1
       1.0s   231.00nm          5.4mb
GUA    20.03 340 eP    13 27.00  -0.4
       0.8s  1367.16nm          6.3mb
     Z 17s     17.01um          5.5MszX
                eS     17 18.00
PJG    20.09 340 eP    13 27.50  -0.5
PVC    20.25 129 iPd   13 30.00   0.3
RMQ    21.18 188 iPd   13 39.80   0.6
                i      13 42.60
MTN    21.73 249 eP    13 45.30   0.5
       0.3s   117.00nm          5.8mb
DZM    21.79 141 iPc   13 45.00  -0.4
BRS    21.89 178 iPc   13 37.40  -9.0X
                ic     13 46.20
                iS     17 51.00
KNA    24.87 244 iPc   14 16.90   1.4
       0.7s   786.00nm          6.4mb
COO    25.05 180 iPc   14 18.00   0.8
ASPA   25.07 222 iPc   14 17.70   0.3
       1.0s   484.60nm          6.1mb
     Z 23s     18.60um          5.5MszX
                iS     18 44.60
                iPcS   21 36.80
                iScS   25 17.90
CMS    26.56 192 eP    14 30.00  -1.2
RIV    28.30 181 eP    14 44.00  -2.9
     Z 18s     34.57um          6.0Msz
                iS     19 40.00
DAV    28.99 295 eP    14 54.00   0.6
CNB    29.86 184 eP    15 00.00  -1.1
WARB   31.73 227 iPc   15 17.70   0.1
       0.6s    57.00nm          5.6mb
ADE    31.83 201 eP    15 18.10  -0.3
       1.0s    98.00nm          5.7mb
TOO    32.55 189 eP    15 25.00   0.4
BFD    32.75 194 iPc   15 27.00   0.7
FORR   33.75 219 eP    15 34.00  -1.0
       0.4s    45.00nm          5.7mb
MBL    34.76 240 iPc   15 43.50  -0.4
       0.6s    61.00nm          5.7mb
PPR    36.26 294 ePc   15 58.50   1.8
CVP    37.48 308 iPd   16 09.00   2.1
BAG    37.75 306 ePc+  16 10.00   0.6
       1.0s   584.00nm          6.4mb
                eS     22 08.00
MEKA   38.13 233 eP    16 11.70  -0.7
KLB    41.20 227 eP    16 36.00  -1.7
       0.9s   149.00nm          5.7mb
WEL    41.20 154 eP    16 50.00  12.5X
                PP     18 36.00
                S      22 48.00
                ScS    26 10.00
MRWA   41.33 231 eP    16 38.00  -0.8
                e      16 43.30
WKYJ   42.29 340 P     16 45.80  -0.8
NWAO   42.29 225 eP    16 44.50  -2.1
ANP    42.34 317 eP    16 44.00  -3.2X
                eS     23 29.20
MUN    42.53 227 eP    16 47.50  -1.0
       1.0s   174.00nm          5.7mb
     Z 20s     8.80um           5.6Msz
     N 20s     8.80um
     E 20s     7.20um
TKSJ   42.63 338 eP    16 49.40   0.1
KUMJ   42.68 333 P     16 50.10   0.3
IIDJ   42.71 343 P     16 52.10   2.0
KAKJ   42.80 346 P     16 50.20  -0.5
CHJJ   42.95 345 P     16 49.10  -2.8
MAJO   43.62 344 iPc   16 55.44  -2.0
                epPd   17 03.55  27kmX
                esPd   17 09.18
                eS     23 42.64
MAT    43.62 344 iPc   16 54.20  -3.2X
       0.8s    14.93nm          4.8mb X
     Z 20s     7.80um           5.6Msz
                eS     23 34.00
MTMJ   43.78 344 P     16 57.30  -1.4
YONJ   43.92 338 eP    16 58.90  -0.9
SHNJ   43.92 335 P     17 04.70   4.9X
NIIJ   44.07 345 P     16 59.50  -1.5
QZH    44.21 314 Pc    17 03.50   1.2
       5.0s  1330.00nm          6.0mb X
     Z 20s     9.80um           5.7Msz
     N 20s     8.70um
     E 20s     9.30um
                sP     17 18.00
                S      23 23.00
YAMJ   44.71 347 eP    17 11.90   5.7X
OFUJ   45.24 349 eP    17 07.70  -2.7
HKC    46.00 308 eP    17 20.00   3.4X
SSE    46.62 323 Pc    17 22.50   1.1
       7.0s   800.00nm          5.8mb X
     Z 20s    13.30um           5.9Msz
     N 20s    11.40um
     E 20s     6.90um
                pP     17 36.00  50kmX
                PcP    18 55.20
                PP     19 11.00
                sS     24 33.00
GZH    47.06 308 P     17 26.50   1.5
     Z 20s    11.30um           5.8Msz
     E 20s     8.90um
QIZ    47.95 302 Pc    17 33.00   0.9
     N 19s     2.70um
     E 21s     6.50um
                PP     19 26.00
HOOJ   48.18 352 eP    17 36.60   3.1X
MRRJ   48.59 349 eP    17 34.80  -1.8
NJ2    48.71 322 iPc   17 39.00   1.3
       6.5s   900.00nm          5.9mb X
     Z 20s     6.50um           5.6Msz
     N 18s     8.50um
     E 17s     5.80um
                PcP    19 03.50
                S      24 38.00
ASAJ   49.98 351 eP    17 45.80  -1.5
WHN    50.63 317 Pc    17 55.50   3.1X
       6.0s   800.00nm          5.9mb X
     Z 22s     7.50um           5.7Msz
     N 20s     7.20um
     E 21s     8.30um
IPM    51.70 280 ePd   18 02.00   1.1
                e      19 15.90
DL2    52.20 330 P     18 02.00  -2.2
                pP     18 14.00  43kmX
                PP     20 04.00
SNG    52.61 283 eP    18 09.00   1.3
                eS     25 36.00
TIA    52.63 325 eP    18 07.00  -0.5
     Z 20s     6.90um           5.7Msz
     N 18s     6.40um
     E 18s     3.50um
SNY    53.60 334 Pc    18 12.50  -2.0
       7.0s  1000.00nm          5.9mb X
     Z 22s     4.70um           5.5Msz
     N 11s     1.10um
```

E 17s 3.50um
pP 18 26.00 49kmX
MDJ 53.65 340 eP 18 14.50 -0.3
Z 24s 7.10um 5.6MszX
N 18s 2.00um
E 20s 3.50um
sS 26 08.00
PCT 53.82 292 iPc 18 17.70 1.2
0.5s 1.40nm 4.2mb X
GYA 54.00 308 iPc 18 18.80 0.9
5.0s 1000.00nm 6.1mb X
Z 20s 5.30um 5.6Msz
N 20s 4.40um
E 20s 6.40um
pP 18 29.00 34kmX
S 25 52.00
sS 26 10.00
LOE 54.42 296 iPc 18 22.00 1.0
CN2 54.45 337 Pc 18 19.40 -1.4
5.0s 700.00nm 5.9mb X
Z 16s 13.30um 6.1MszX
N 16s 4.50um
E 16s 1.50um
epP 18 30.00 35kmX
PP 20 24.00
ScP 23 14.00
NST 55.30 293 eP 18 31.00 3.6X
BJI 55.86 327 ePc 18 29.68 -1.4
6.0s 910.00nm 6.0mb X
Z 22s 10.80um 5.9Msz
N 22s 8.21um
epPd 18 38.13 28kmX
ed 18 41.11
ed 18 45.24
PcP 19 29.50
eS 26 18.00
XAN 56.40 317 Pc 18 34.60 -0.5
5.0s 1000.00nm 6.1mb X
N 20s 7.50um
E 20s 7.50um
ScS 28 10.00
TIY 56.41 323 iPc 18 36.00 0.8
6.5s 800.00nm 5.9mb X
Z 22s 11.50um 5.9Msz
N 19s 8.50um
PP 20 36.00
S 26 20.00
KMI 56.53 305 P+ 18 38.00 1.5
1.2s 180.00nm 6.0mb
Z 20s 5.80um 5.7Msz
N 17s 1.80um
E 17s 2.50um
pP 18 45.00 23kmX
sP 18 51.00
PcP 19 34.00
PP 20 40.00
S 26 20.00
S 26 29.00
BDT 56.82 295 eP 18 39.00 0.7
CHG 57.38 296 iPc 18 42.90 0.6
1.1s 132.59nm 5.9mb
eS 26 56.00
CHTO 57.38 296 iP 18 42.70 0.4
1.3s 167.48nm 5.9mb
CD2 58.40 311 Pc 18 49.30 0.0
0.8s 100.00nm 5.9mb
Z 20s 17.80um 6.2Msz
E 21s 12.30um
S 26 38.00
PPN 58.60 107 eP 18 53.00 2.2
0.8s 20.00nm 5.3mb
HHC 58.98 325 P 18 53.40 0.2
Z 20s 15.00um 6.1Msz
N 18s 3.90um
E 18s 6.40um
sP 19 07.00
PP 21 06.00
BTO 59.70 324 P 18 58.00 -0.3
7.0s 1000.00nm 6.1mb X
N 19s 5.90um
E 19s 6.20um
PP 21 11.00
S 27 06.50
eSS 30 58.00
PMO 59.92 104 iP 19 01.00 1.0
0.8s 40.00nm 5.6mb
TPT 60.19 104 iP 19 02.80 1.0
0.8s 50.00nm 5.7mb
LZH 60.99 317 iPc 19 07.70 0.5
6.0s 850.00nm 6.1mb X
Z 20s 6.07um 5.7Msz
N 18s 3.23um
E 19s 3.64um
ec 19 08.69
epPd 19 15.64 26kmX
esPd 19 19.29
PP 21 17.50
S 27 22.00
SS 31 26.00
HIA 61.19 337 iPc 19 07.12 -1.0
esPd 19 19.04
eHPP 21 18.37
ePP 21 19.70
eS 27 40.14
i 27 49.74
i 28 48.56
DRV 61.71 185 eP 19 21.60 10.2X
ADK 63.06 21 ePc 19 20.60 0.1
0.9s 61.90nm 5.7mb
GTA 65.44 318 iPc 19 36.40 -0.1
1.0s 30.00nm 5.4mb
Z 20s 6.60um 5.8Msz
E 18s 4.90um
PcP 20 06.00
S 28 20.00
sS 28 31.00
SS 32 33.00
PKI 71.91 301 Pc 20 16.74 -0.4
1.1s 234.00nm 6.1mb
KKN 72.08 301 Pc 20 17.86 -0.2
0.9s 230.00nm 6.2mb
SDN 72.16 26 eP 20 16.60 -1.0
DMN 72.18 301 Pc 20 18.78 0.1
1.0s 739.00nm 6.6mb
VNDA 72.27 178 iPc 20 17.50 -0.4
GKN 72.69 301 Pc 20 21.26 -0.3
1.1s 718.00nm 6.6mb
SBA 72.84 177 e(P) 20 23.60 2.4
WMQ 75.53 318 iPc 20 37.54 0.0
1.0s 100.00nm 5.8mb
Z 20s 3.50um 5.7Msz
E 18s 4.00um
epPd 20 44.98 24kmX
esPd 20 49.79
ePP 23 29.68
eS 30 26.29
e 30 30.98
KOD 75.67 282 eP 20 39.20 0.1
HYB 75.78 289 ePc 20 38.50 -0.9
1.0s 80.00nm 5.7mb
GBA 76.20 285 P 20 41.70 0.0
ANM 76.63 18 eP 20 43.00 -0.2
KDC 77.16 27 ePc 20 45.90 -0.3
SVW 77.74 23 ePc 20 49.90 0.4
TTA 78.67 22 ePc 20 54.60 0.0
1.2s 214.60nm 6.0mb
NDI 79.20 300 iPc 20 57.00 -1.1
0.8s 67.16nm 5.7mb
eS 31 08.00
POO 80.38 290 iPc 21 03.00 -1.6
PAF 80.47 221 eP 21 15.00 10.5X
eS 31 20.00
eSS 36 32.00
eSSS 40 04.00
PMR 80.62 25 ePc 21 03.90 -1.1
1.1s 182.70nm 6.0mb
Z 20s 5.00um 5.9Msz
IMA 81.33 20 iPc 21 08.70 -0.2
BOM 81.40 290 eP 21 05.00 -4.9X
eS 31 19.50
TOA 82.10 25 ePc 21 13.30 0.5
KSH 82.57 311 Pc 21 18.00 2.2
6.0s 1900.00nm 6.4mb X
E 16s 4.20um
epP 21 28.50 33kmX
COL 82.79 22 iPc 21 14.89 -1.4
ec 21 16.22
eS 31 31.75
ePS 32 28.37
FBA 82.79 22 iPc 21 15.00 -1.3
1.0s 150.00nm 6.0mb
YKU 83.92 28 eP 21 23.60 1.6
MAW 84.65 203 iP 21 26.60 0.9
1.0s 61.00nm 5.8mb
SIT 85.28 32 ePc 21 29.80 0.9
0.9s 90.30nm 6.0mb
Z 20s 10.00um 6.2Msz
QUE 88.28 300 iP+ 21 44.60 0.2
eS 32 14.30
FHC 89.09 49 eP 21 49.80 1.9
INK 89.35 21 ePc 21 47.70 -0.8
1.2s 103.00nm 6.0mb
BRK 90.05 52 eP 21 52.20 -0.2
Z 20s 11.00um 6.3Msz
e(PS) 34 09.00
eSS 38 53.00
eSSS 42 47.00
eLQ 45 44.00
eLR 50 12.00
BKS 90.07 52 ePc 21 52.00 -0.5
0.9s 58.00nm 5.8mb
Z 20s 12.00um 6.3Msz
N 20s 3.80um
E 20s 9.00um
e(PP) 24 56.00
ePPP 27 23.00
eS 32 26.00
e(PS) 33 58.00
e 35 24.00
eSS 38 52.00
eLQ 45 36.00
eLR 49 10.00
WDC 90.15 49 ePc 21 53.20 0.4
MHC 90.47 53 eP 21 56.10 1.6
PGC 90.52 41 eP 21 55.00 0.7
PRS 90.58 54 ePc 21 55.70 0.8
ORV 90.83 51 ePc 21 56.10 0.1
MIN 90.83 50 eP 21 55.80 -0.4
LLA 90.95 53 eP 21 57.60 1.0
PRI 91.13 54 eP 21 54.30 -3.3X
RMW 91.47 43 P 21 59.50 0.6
SYP 91.53 56 eP 22 02.00 2.5
CMB 91.54 52 ePc 21 59.21 -0.1
ePP 25 36.95
FRI 91.98 53 ePc 22 01.40 0.1
ISA 92.86 55 eP 22 06.00 0.5
CRZF 92.97 223 eP 22 18.00 12.3X
ePP 26 15.00
eS 32 48.00
eSP 34 33.00
eSS 39 33.00
PAS 92.98 56 eP 22 04.00 -2.0
ePP 25 49.00
eSKS 32 20.00
eS 32 54.00
ePS 34 29.00
eSS 38 38.00
ePKKS 39 42.00
eLg 46 22.00
RScS 49 13.00
eLR 50 00.00
MWC 93.08 56 eP 22 08.00 1.3
PNT 93.10 41 eP 22 07.00 0.8
1.0s 48.00nm 5.9mb
SBB 93.31 56 eP 22 09.00 1.4
CLC 93.58 55 eP 22 09.00 0.2
RVR 93.63 56 eP 22 09.00 0.0
TNP 94.03 52 P 22 11.00 0.0
1.1s 45.45nm 5.8mb
GSC 94.19 55 ePc 22 13.40 1.8
ePP 25 56.77
eHPP 25 57.76
NEW 94.68 42 P 22 13.00 -0.6
1.0s 70.00nm 6.0mb
MBC 94.92 14 ePd 22 14.00 -0.1
1.0s 24.00nm 5.6mb
MAIO 95.04 306 iPd 22 15.80 0.2
0.9s 6.39nm 5.1mb
e 33 36.00
GLA 95.70 57 eP 22 20.00 1.4
YKA 96.40 28 eP 22 20.10 -0.9
0.9s 14.30nm 5.4mb
EDM 97.17 37 iPc 22 25.00 0.2
1.0s 116.00nm 6.4mb
LRM 97.82 45 ePc 22 27.90 -0.3
SES 98.67 40 ePc 22 32.00 0.4
1.3s 92.00nm 6.1mb
BW06 99.96 48 P 22 37.00 -0.9
ALQ 102.66 56 ePdiff22 50.00 -0.2
Z 18s 2.23um 5.7Msz
ANMO 102.66 56 Pdiff 22 54.00 3.9X

09d 15h

	Z	20s		7.45um			6.2Msz			1.0s		39.00nm					LPF	131.61	336	ePKP	28	05.80	0.2
ANMO	102.66		56	ePdiff	22	49.26	-0.9	CEY	125.45	324	ePKP	27	53.50	-0.4				1.1s		73.25nm				
	Z	20s		7.45um			6.2Msz	VOY	125.59	325	ePKP	27	53.40	-0.9			CLMC	131.74	90	ePKPc	28	06.40	-0.7
				ec	22	51.91		TRI	125.85	325	PKP	27	55.50	0.8			PURC	131.83	92	ePKPc	28	07.80	0.1
				ePP	26	59.03		FVI	125.89	326	PKP	27	55.50	0.8			LSF	131.87	333	ePKP	28	06.00	-0.2
				eHPP	26	59.52		LCI	126.00	317	PKP	27	56.50	1.4			SILC	131.88	91	ePKPc	28	07.60	-0.1
GOL	103.27		51	Pdiff	23	00.00	7.2X	BRT	126.25	318	PKP	27	57.10	1.4			DIAC	132.07	90	ePKPc	28	07.20	-0.5
	Z	20s		5.00um			6.0Msz	EKA	126.32	343	PKP	27	57.00	1.7			MFF	132.35	334	ePKP	28	07.20	0.2
GLD	103.38		51	Pdiff	23	00.00	6.8X		2.0s		135.50nm							1.3s		50.55nm				
	Z	20s		7.00um			6.2Msz	SQTA	126.37	328	ePKP	27	55.00	-0.8			BCAO	133.47	271	ePKPd	27	55.10	-15.1X
FFC	103.71		35	ePdiff	22	54.00	-0.1		1.0s		27.40nm							0.7s		21.00nm				
	0.9s		23.00nm				6.0mb				id	27	55.80							id	28	10.00		
TAB	105.52		308	ePdiff	23	03.00	0.3				i	28	07.90							id	28	19.70		
				e	26	06.00		ABH	126.46	332	ePKP	27	56.14	0.3			CNCB	134.88	120	PKP	28	03.00	-10.4X
				e	27	26.00		ENN	126.57	334	ePKP	27	56.00	0.1						i	28	10.80		
FRB	114.89		19	ePKP	27	33.00	-0.1		1.0s		22.00nm									PKS	31	44.00		
BBTK	115.60		312	ePKP	27	35.00	-0.4	OGA	126.69	327	iPKPc	27	56.40	-0.2			LPB	134.90	120	PKP	28	13.00	-0.3
				e	27	48.00		CTI	126.85	326	PKP	27	57.00	0.2			Z	24s		1.55um			5.6MszX
HFS	116.87		338	ePKP	27	35.50	-1.5	ORI	127.14	317	PKP	27	58.50	1.1						PKS	31	47.00		
	1.7s		86.00nm					TDS	127.41	317	PKP	28	00.00	2.1X						LR	12	40.00		
	Z	17s		3.49um			6.0MszX	ARV	127.59	323	PKP	28	00.00	1.9			ZOBO	134.99	119	PKP	28	06.00	-7.6X
				LR	17	00.00		CDF	127.60	331	ePKP	27	56.30	-1.8				1.0s		13.00nm				
NB2	117.14		340	PKP	27	36.60	-0.9		1.1s		14.65nm							Z	20s		1.45um			5.7Msz
	0.9s		7.30nm					DUI	127.65	320	PKP	28	00.50	2.1X						PKS	31	43.00		
KCT	118.72		313	ePKP	27	40.00	-1.2	SGO	127.66	319	PKP	28	00.20	1.9						LR	12	52.00		
BUL	118.72		244	iPKPd	27	43.80	1.9	SAL	127.74	326	PKP	27	59.00	0.7			CCH	136.19	122	PKP	28	15.60	0.0
	1.0s		10.00nm					SFI	127.99	324	PKP	28	01.60	2.8X			SDV	137.73	83	ePKP	28	10.20	-8.3X
KRI	118.79		248	ePKP	27	51.50	9.4X	ASS	128.00	323	PKP	28	01.00	2.0			TOV	138.53	81	ePKP	28	16.50	-3.2X
PVL	119.78		317	iPKPd	27	43.00	0.0	SDI	128.03	321	PKP	28	00.30	1.2			GUD	138.82	332	ePKP	28	13.00	-6.6X
KRA	120.00		326	ePKP	27	43.30	0.1	CRE	128.11	324	PKP	28	00.70	1.5			TOL	139.37	331	ePKP	28	19.00	-1.5
SPC	120.27		325	ePKP	27	42.80	-1.3	AZI	128.12	321	PKP	28	01.50	2.4X			EVIA	139.55	328	e(PKP)	28	14.00	-7.0X
LSZ	120.53		249	iPKP	27	46.00	0.6	BSF	128.23	331	ePKP	27	57.60	-1.7			SIV	141.11	124	PKP	28	16.10	-8.2X
RZN	120.79		316	iPKPd	27	44.00	-1.3		1.0s		40.00nm						ECOG	141.12	328	ePKP	28	16.10	-7.8X
VTS	121.46		317	iPKPd	27	46.00	-0.5	HAU	128.33	331	ePKP	27	57.70	-1.7			EHOR	141.56	330	ePKP	28	18.60	-5.9X
MMB	121.51		316	iPKPd	27	46.00	-0.5		0.9s		24.55nm						MAL	141.98	328	ePKP	28	16.00	-9.2X
KSP	121.52		329	ePKPd	27	46.50	0.4		Z	21s		4.00um			6.1Msz		LIJA	142.36	329	iPKP	28	22.00	-4.0X
SCH	121.76		25	ePKP	27	46.00	-0.5	MNS	128.37	322	PKP	28	00.00	0.3			EVAL	142.47	332	ePKP	28	21.00	-5.1X
SRO	122.08		325	ePKP	27	44.60	-2.7X	MME	128.50	325	PKP	28	03.00	2.9X			GIBL	142.69	330	iPKP	28	23.50	-3.0X
				e	28	11.90		NNA	128.61	110	ePKP	28	01.50	0.6			PPD	144.55	141	ePKP	28	26.00	-4.1X
VAY	122.42		316	iPKP	27	46.80	-1.3		1.0s		19.00nm						IFR	144.76	325	iPKPc	28	29.00	-1.3
	0.9s		38.00nm						Z	18s		0.34um			5.1Msz		PAG	145.47	70	ePKP	28	30.00	-1.8
ZST	122.57		326	ePKP	27	47.90	-0.3	BDI	128.64	325	PKP	28	02.00	1.8			SEG	145.54	69	ePKP	28	30.00	-1.8
				e	31	34.30		RDP	128.70	321	PKP	28	00.50	0.2			BBL	145.78	70	ePKP	28	31.50	-0.8
				e	45	23.80		BOB	128.86	326	PKP	28	03.50	2.9X			MGG	145.84	70	ePKP	28	31.00	-1.3
GAC	122.66		38	ePKPd	27	48.90	0.5	PII	128.89	324	PKP	28	01.50	1.0			DEG	145.98	69	ePKP	28	31.00	-1.6
	0.7s		13.00nm					ORO	129.11	328	PKP	28	02.00	0.9			AVE	146.18	328	iPKPc	28	33.50	1.0
BRG	122.70		330	iPKP	27	47.90	-0.5	CKI	129.72	326	PKP	28	01.00	-1.1						i	28	50.00		
	Z	20s		3.00um			5.9Msz	LPL	129.84	328	ePKP	28	02.20	-0.4						i	29	31.50		
	N	20s		2.50um					0.9s		16.40nm						VAO	146.32	148	ePKP	28	34.40	1.3
CLL	122.90		331	iPKPc	27	48.30	-0.4	LPG	129.84	328	ePKP	28	02.30	-0.4			SVV	146.48	74	ePKP	28	33.61	0.2
	1.1s		16.00nm						1.1s		22.00nm						SLB	146.56	73	ePKP	28	34.58	1.0
	Z	19s		3.00um			6.0Msz	LOR	130.04	332	ePKP	28	02.60	-0.1			TPP	146.68	79	ePKP	28	35.90	2.1X
SKO	122.92		317	iPKP	27	48.00	-1.1		1.2s		50.60nm						TRN	146.69	79	ePKP	28	34.31	0.5
	1.0s		67.00nm						Z	18s		3.50um			6.1Msz		TBH	147.04	79	ePKP	28	36.85	2.5X
	Z	20s		2.56um			5.9Msz	BNI	130.18	328	PKP	28	06.20	3.0X			BOT	147.30	78	ePKP	28	36.77	2.0
	N	20s		1.73um				LBF	130.19	332	ePKP	28	02.60	-0.4			TIO	147.89	325	iPKPc	28	35.50	0.0
	E	20s		1.84um				CUMC	130.19	93	ePKPc	28	05.10	0.5						i	28	53.50		
				i	28	02.50		SSF	130.35	332	ePKP	28	03.20	0.0			BAO	151.33	137	e(PKP)	28	37.00	-4.1X
				i	36	27.00			0.9s		20.45nm						BDF	151.37	137	ePKPc	28	39.45	-1.7
				iS	39	22.50		PGF	130.49	324	ePKP	28	03.40	-0.4						ec	28	44.74		
				i	41	55.00			1.1s		58.60nm						TEGH	151.97	272	ePKP	28	48.00	6.0X
PRU	122.93		329	PKP	27	48.80	0.0	SMF	130.50	331	ePKP	28	03.20	-0.3			SHGH	152.01	272	ePKP	28	42.00	0.0
	Z	20s		3.40um			6.0Msz		1.2s		35.70nm						LEGH	152.15	272	ePKP	28	48.00	5.8X
	N	18s		1.60um				SBF	130.55	326	ePKP	28	03.20	-0.6			KOGH	152.21	273	ePKP	28	42.00	-0.4
	E	20s		3.40um					1.1s		34.20nm									e	28	49.00		
				e	39	20.00		AVF	130.62	332	ePKP	28	03.30	-0.4			KIC	156.68	274	PKP	28	48.02	-0.4
				e	41	00.00		LDF	130.79	336	ePKP	28	03.60	-0.4				0.9s		13.00nm				
VKA	122.97		326	ePKP	27	49.00	0.0		1.2s		35.70nm						TIC	156.95	274	PKP	28	48.10	-0.7
				i	27	50.60		FLN	130.80	336	ePKP	28	03.80	-0.2			LIC	156.97	273	PKP	28	48.44	-0.3
KMZ	123.22		250	iPKP	27	51.50	0.9		1.2s		62.50nm							Z	20s		2.75um			6.1Msz
KHC	123.95		328	PKP	27	50.50	-0.5		Z	21s		6.25um			6.3Msz		SOB1	160.73	139	ePKP	28	55.00	2.0X
	1.2s		20.00nm					BGF	131.03	332	ePKP	28	04.50	0.0						e	29	35.70		
	Z	20s		3.80um			6.1Msz		1.0s		32.00nm							S.D. = 1.1		on 251 of 301 obs.				
	N	20s		1.50um				FRF	131.18	327	ePKP	28	04.80	-0.1									
	E	20s		3.40um					1.3s		65.00nm							JAN 09, 1991 15h 35m 47.72± 0.91s						
MOX	124.00		331	ePKP	27	51.00	0.0	GRR	131.25	336	ePKP	28	05.00	0.1				53.530 N ± 6.2km 153.929 E ± 4.7km						
	Z	23s		4.20um			6.0MszX		1.2s		56.55nm							DEPTH = 491.4 ± 12.6 km						
	N	22s		3.50um				LMR	131.40	326	ePKP	28	05.20	-0.1				4.5mb (45 obs.)						
PTJ	124.47		324	ePKP	27	51.80	-0.3		1.1s		36.65nm							SEA OF OKHOTSK						(663)
WIT	124.77		335	ePKP	27	54.00	1.7	LRG	131.40	327	ePKP	28	05.30	0.0										
GRF	124.80		330	ePdiff	24	36.00	7.9X		1.1s		56.15nm						MDJ	18.19	251	eP	39	29.70	-0.1
	Z	23s		4.00um			6.0MszX		Z	19s		3.00um			6.0Msz			1.0s		60.00nm			5.2mb
				e	27	57.00		MAF	131.41	332	ePKP	28	05.40	0.1			MAT	20.22	219	iPd	39	48.50	-0.8
				e	29	10.00		ANCC	131.42	90	ePKPc	28	05.70	-0.6			CN2	21.05	254	eP	39	56.20	-0.7
				e	32	30.00		TCF	131.53	332	ePKP	28	05.60	0.1			SNY	23.36	252	eP	40	17.80	-0.2
VBY	125.10		324	ePKPc	27	53.00	-0.2		0.9s		22.95nm							1.0s		20.00nm			4.7mb
WTS	125.30		334	ePKP	27	54.00	0.7	SALC	131.55	91	ePKPc	28	06.70	0.0			TTA	27.29	50	ePc	40	52.60	-0.3

0.8s 9.20nm 4.3mb
e 42 15.30
SVW 27.64 54 eP 40 56.00 0.0
BRW 27.76 32 eP 40 57.00 0.1
IMA 28.23 43 iPc 41 00.90 -0.3
0.6s 14.70nm 4.7mb
e 42 22.20
PMR 30.65 52 eP 41 21.90 0.0
0.4s 3.70nm 4.2mb
FBA 30.74 45 iPc 41 23.20 0.5
0.9s 99.58nm 5.3mb
TOA 31.92 50 eP 41 33.40 0.6
TIY 32.51 258 eP 41 39.20 1.2
SSE 32.54 240 P 41 37.50 -0.7
NJ2 33.01 244 iPc 41 42.50 0.3
0.8s 100.00nm 5.4mb
INK 35.78 37 iPc 42 05.90 1.0
0.5s 25.00nm 5.0mb
WHN 36.62 247 Pd 42 13.80 1.6
MBC 38.08 23 ePc 42 24.90 1.1
0.5s 4.00nm 4.2mb
LZH 38.67 264 iPd 42 30.50 1.2
1.0s 25.00nm 4.7mb
CD2 42.38 258 eP 42 59.00 0.0
GYA 44.05 251 P 43 12.00 -0.4
S 49 07.00
YKA 45.30 41 eP 43 21.30 -0.1
0.6s 11.70nm 4.6mb
DAG 49.89 358 eP 43 55.00 -1.0
PNT 50.89 57 iPc 44 03.60 -0.2
0.6s 6.00nm 4.2mb
KEV 51.15 339 eP 44 00.00 -5.4X
SOD 53.15 337 iP 44 19.40 -0.6
SES 54.34 52 ePc 44 28.60 -0.2
CHG 54.43 252 eP 44 30.10 0.4
CHTO 54.43 252 iPd 44 29.90 0.2
0.6s 15.85nm 4.5mb
GUN 55.18 271 P 44 35.12 -0.1
0.3s 9.00nm 4.5mb
FFC 55.31 43 iPc 44 35.40 0.0
0.6s 24.00nm 4.7mb
KKN 55.62 271 P 44 38.40 0.2
0.5s 26.00nm 4.8mb
PKI 55.71 271 P 44 38.90 -0.1
0.5s 9.00nm 4.4mb
GKN 55.85 272 Pd 44 39.74 0.0
0.4s 10.00nm 4.5mb
DMN 55.86 271 Pd 44 40.22 0.3
LRM 56.83 56 eP 44 46.40 0.0
KAF 57.54 334 eP 44 49.80 -0.9
FRB 58.49 21 ePc 44 55.90 -1.2
NUR 59.33 334 eP 45 01.80 -1.0
NB2 61.99 340 P 45 19.60 -0.8
0.7s 12.60nm 4.6mb
HFS 62.30 339 eP 45 20.90 -1.4
0.3s 5.90nm 4.6mb
HYB 67.51 269 eP 45 54.50 -1.1
EKA 69.87 346 P 46 10.00 0.7
0.4s 8.80nm 4.7mb
CLL 70.51 335 iP 46 12.70 -0.4
0.9s 15.00nm 4.5mb
GBA 71.15 267 P 46 17.20 -0.1
PRU 71.32 334 eP 46 18.00 0.2
KHC 72.36 334 eP 46 24.50 0.6
TUL 72.51 53 eP 46 24.70 -0.3
0.8s 16.10nm 4.6mb
Z 22s 2.54um 5.5Msz
LR 01 06.70
CDF 74.58 338 eP 46 36.20 -0.4
0.7s 8.80nm 4.4mb
WRA 75.10 199 P 46 39.00 -0.6
0.6s 11.70nm 4.6mb
FLN 75.81 343 eP 46 42.80 -0.4
0.5s 4.35nm 4.3mb
LDF 75.90 343 eP 46 43.30 -0.5
0.5s 5.10nm 4.3mb
GRR 76.23 343 eP 46 45.50 -0.1
LOR 76.40 340 eP 46 46.20 -0.4
0.8s 15.45nm 4.6mb
LPF 76.61 343 eP 46 47.90 0.3
0.7s 11.00nm 4.5mb
LBF 76.65 339 eP 46 47.30 -0.6
SSF 76.67 340 eP 46 47.80 -0.2
0.9s 9.85nm 4.3mb
AVF 76.96 340 eP 46 49.60 0.0
0.7s 9.90nm 4.4mb
BGF 77.29 340 eP 46 51.70 0.3

LPL 77.43 337 eP 46 53.00 0.6
0.7s 11.00nm 4.4mb
OHR 77.46 326 eP 46 51.50 -1.0
MAF 77.67 340 eP 46 53.80 0.4
0.5s 9.50nm 4.5mb
TCF 77.68 340 eP 46 53.60 0.1
0.7s 8.25nm 4.3mb
MFF 77.83 342 eP 46 54.60 0.3
0.4s 5.75nm 4.4mb
LSF 77.85 341 eP 46 54.50 0.1
0.6s 9.45nm 4.4mb
RJF 78.76 341 eP 47 00.10 0.9
0.9s 9.85nm 4.3mb
ASPA 78.81 199 eP 46 59.50 -0.2
0.6s 19.50nm 4.7mb
CAF 79.01 340 eP 47 01.50 0.9
0.6s 9.00nm 4.4mb
LFF 79.26 341 eP 47 02.80 1.0
0.5s 10.95nm 4.6mb
LPO 79.42 341 eP 47 03.40 0.7
0.6s 11.70nm 4.5mb
LRG 79.46 337 eP 47 03.30 0.4
0.5s 6.55nm 4.4mb
LMR 79.54 336 eP 47 03.50 0.2
0.3s 2.15nm 4.1mb
PGF 79.66 334 eP 47 03.90 -0.2
0.7s 6.60nm 4.2mb
EPF 81.18 341 eP 47 12.80 0.9
0.5s 3.65nm 4.2mb
S.D. = 0.6 on 72 of 73 obs.

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* JAN 09, 1991 16h 14m 21.65± 1.65s
5.573 S ±14.1km 152.053 E ±22.5km
DEPTH = 50.3 ± 10.3 km
4.8mb (7 obs.)
NEW BRITAIN REGION (192)

RAB 1.38 5 iPd 14 44.80 0.0
iS 14 54.00
PMG 6.17 232 eP 15 52.50 -0.1
MTN 21.87 249 eP 19 13.00 1.0
0.3s 17.00nm 4.9mb
ASPA 25.08 222 eP 19 42.70 -0.6
0.5s 13.00nm 4.7mb
CHTO 57.65 296 eP 24 10.10 0.5
1.2s 4.51nm 4.4mb
GUN 71.89 302 Pd 25 41.96 -0.3
0.6s 8.00nm 4.8mb
PKI 72.19 301 P 25 44.32 0.3
KKN 72.36 301 Pd 25 44.44 -0.5
0.7s 9.00nm 4.8mb
DMN 72.46 301 Pd 25 45.40 -0.2
0.6s 13.00nm 5.0mb
GKN 72.97 301 P 25 47.78 -0.6
YKA 96.45 28 eP 27 47.00 0.6
0.8s 0.70nm 4.2mb
S.D. = 0.6 on 11 of 11 obs.

? JAN 09, 1991 16h 59m 43.44± 6.50s
2.469 N ±28.1km 75.268 W ±47.9km
DEPTH = 33.0km (normal)
COLOMBIA (103)
MD 3.7 (UVC).

SILC 1.09 282 iPd 00 01.89 -1.0
eS 00 15.40
PURC 1.10 262 iPd 00 03.29 0.2
eS 00 18.20
DIAC 1.24 311 eP 00 04.12 -0.5
SALC 1.51 289 eP 00 09.23 0.6
eS 00 28.80
HOQC 1.69 306 eP 00 11.39 0.1
eS 00 31.90
BUGC 1.73 325 eP 00 11.44 -0.3
ANCC 1.91 303 ePc 00 15.01 0.7
eS 00 38.30
CLMC 1.91 317 eP 00 14.41 0.0
eS 00 37.20
HOBC 2.06 335 ePc 00 16.80 0.2
S.D. = 0.6 on 9 of 9 obs.

% JAN 09, 1991 17h 48m 11.24± 0.88s
40.015 N ± 9.3km 27.168 E ± 9.0km
DEPTH = 27.8 ± 10.0 km
TURKEY (366)
MD 3.2 (ISK).

KGT 0.45 13 iPg 48 20.40 -0.3
EDC 0.63 58 ePg 48 22.00 -1.6
eSg 48 32.50
BNT 0.67 59 iPg 48 22.40 -1.9
EZN 0.67 254 iPg 48 23.70 -0.7
iSg 48 33.20
KCT 0.94 75 ePg 48 28.40 -0.2
eSg 48 42.40
DST 1.20 110 iPn 48 31.30 -0.9
IZM 1.62 177 ePn 48 39.00 0.7
YLV 1.77 71 iPn 48 41.90 1.3
ISK 1.78 53 ePn 48 42.00 1.4
DMK 1.86 14 iPn 48 42.50 0.8
HRT 2.07 66 ePn 48 46.40 1.5
S.D. = 1.5 on 11 of 11 obs.

? JAN 09, 1991 18h 23m 06.13± 3.91s
3.976 N ±17.6km 76.260 W ±17.5km
DEPTH = 94.6 ± 34.8 km
COLOMBIA (103)
MD 3.5 (UVC).

BUGC 0.08 178 ePc 23 20.60 -0.4
eS 23 33.50
CLMC 0.32 253 ePc 23 21.22 0.6
eS 23 34.30
HOBC 0.40 18 iPc 23 20.96 0.0
eS 23 34.10
HOQC 0.63 217 iPc 23 22.92 0.0
eS 23 37.20
DIAC 0.68 175 iPc 23 23.41 0.1
eS 23 38.40
ANCC 0.76 233 ePc 23 23.60 -0.3
eS 23 38.70
SALC 1.09 204 ePc 23 27.41 -0.2
SILC 1.28 184 eP 23 30.32 0.1
PURC 1.65 184 eP 23 34.96 0.1
S.D. = 0.4 on 9 of 9 obs.

JAN 09, 1991 19h 12m 33.52± 1.05s
30.859 N ± 9.2km 57.472 E ± 5.1km
DEPTH = 33.1 ± 10.8 km
4.3mb (6 obs.)
IRAN (348)

SHI 4.45 255 eP 13 41.00 0.4
MAIO 5.68 17 ePn 13 58.00 0.1
eSn 15 09.00
QUE 8.20 92 eP 14 32.50 -0.9
e(S) 16 49.40
HYB 23.38 120 eP 17 45.00 4.8X
GKN 23.81 90 P 17 44.38 -0.1
DMN 24.31 91 P 17 50.72 1.3
KKN 24.41 90 P 17 50.52 0.1
GUN 24.90 90 P 17 55.74 0.5
1.0s 35.00nm 4.9mb
KHC 37.64 312 eP 19 47.30 0.3
CLL 38.51 315 eP 19 55.00 0.8
SQTA 38.86 308 iPc 19 56.50 -0.9
0.6s 4.10nm 4.4mb
CHTO 39.29 98 eP 20 00.80 -0.4
1.0s 2.00nm 3.8mb
HFS 41.18 328 eP 20 15.90 -0.3
0.5s 1.20nm 3.9mb
BCAO 45.08 242 iPd 20 48.00 -0.5
0.6s 6.00nm 4.7mb
INK 80.80 4 eP 24 45.00 0.3
YKA 86.76 356 eP 25 14.60 -0.6
0.9s 1.30nm 4.2mb
S.D. = 0.7 on 15 of 16 obs.

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* JAN 09, 1991 19h 39m 43.66± 1.46s
33.858 N ±14.2km 57.337 E ± 8.5km
DEPTH = 41.2 ± 15.8 km
4.6mb (4 obs.)
IRAN (348)
Felt at Tabas.

MAIO 3.01 35 iPnc 40 30.40 0.3
0.5s 76.53nm
eSn 41 13.00
KER 8.50 276 eP 41 47.00 -0.3
QUE 8.94 112 eP 41 52.20 -1.3
POO 21.22 132 eP 44 28.50 0.2
GKN 24.10 97 P 44 57.06 0.4
0.6s 16.00nm 4.7mb
DMN 24.63 97 P 45 02.10 0.2

09d 19h

0.7s 11.00nm 4.5mb
KKN 24.70 97 P 45 03.54 1.0
PKI 24.89 97 P 45 05.40 0.9
HYB 25.10 125 eP 45 06.50 0.4
GUN 25.16 96 P 45 07.10 0.1
1.0s 37.00nm 4.9mb
MLR 26.64 305 eP 45 22.00 1.6
CHG 39.90 101 eP 47 15.00 -0.5
CHTO 39.90 101 eP 47 14.90 -0.6
0.8s 4.21nm 4.3mb
YKA 83.77 356 eP 52 06.80 -2.6
0.4s 0.10nm 3.3mb X
S.D. = 1.2 on 14 of 14 obs.

? JAN 09, 1991 20h 24m 46.75± 7.65s
43.281 N ±18.4km 5.305 E ±61.9km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
MD 2.5 (STR).

CALN 1.25 67 Pg 25 09.79 -0.2
MVIF 1.48 65 Pn 25 13.37 -0.2
Sg 25 30.95
REVF 1.57 72 Pn 25 15.26 0.5
TOUF 1.59 62 Pn 25 14.52 -0.7
Sg 25 34.93
AURF 1.59 67 Pn 25 15.43 0.3
Sg 25 35.24
AUTN 1.70 64 Pn 25 16.91 0.1
Sg 25 39.07
SAOF 1.78 66 Pn 25 17.95 0.2
PGF 2.81 104 Pn 25 32.51 -0.2
S.D. = 0.4 on 8 of 8 obs.

? JAN 09, 1991 20h 35m 20.66± 1.03s
42.349 N ± 9.3km 13.186 E ±10.8km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

MNS 0.38 276 Pc 35 28.60 0.2
eSg 35 35.00
SDI 0.80 144 P 35 36.10 -0.1
eSg 35 49.30
ASS 0.82 332 P 35 35.80 -0.8
eSg 35 47.50
ARV 1.16 351 P 35 43.00 0.6
eSn 35 59.50
S.D. = 1.0 on 4 of 4 obs.

? JAN 09, 1991 20h 43m 18.02± 2.66s
44.674 N ±37.5km 141.694 E ±116.km
DEPTH = 226.2 ± 30.6 km
4.2mb (4 obs.)
HOKKAIDO, JAPAN REGION (224)

MAT 8.54 199 iPd 45 19.20 0.0
0.7s 19.18nm 4.4mb
eS 46 53.00
YKA 57.17 32 eP 52 43.00 0.0
0.5s 2.00nm 4.0mb
WRA 64.65 188 P 53 33.00 -0.4
0.9s 2.50nm 4.0mb
ASPA 68.38 188 iPd 53 57.30 0.4
1.1s 7.00nm 4.3mb
FRB 69.30 14 eP 54 02.00 0.0
S.D. = 0.6 on 5 of 5 obs.

JAN 09, 1991 21h 11m 33.89± 0.58s
43.444 N ± 4.2km 5.452 E ± 4.6km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
MD 2.5 (STR).

GELF 0.06 196 Pg 11 35.91 -0.3
TREF 0.19 345 Pg 11 37.82 -0.2
PUYF 0.20 64 Pg 11 37.75 -0.6
BERF 0.22 127 Pg 11 39.06 0.4
PRAF 0.41 330 Pg 11 42.80 0.4
VILF 0.45 25 Pg 11 42.65 -0.4
TAVF 0.47 68 Pg 11 43.39 -0.1
MVIF 1.31 69 Pn 11 58.40 0.1
Sg 12 17.38
TOUF 1.42 66 Pn 12 00.48 0.5
Sg 12 21.20
AURF 1.43 71 Pn 12 00.35 0.4
Sg 12 21.43
AUTN 1.53 68 Pn 12 01.85 0.3
SAOF 1.62 70 Pn 12 02.67 0.1
PGF 2.75 108 Pn 12 18.43 -0.5
S.D. = 0.4 on 13 of 13 obs.

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* JAN 09, 1991 22h 07m 37.64± 0.81s
36.982 N ± 8.4km 29.638 E ± 6.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ELL 0.32 137 iPg 07 44.50 0.2
iSg 07 50.00
BCK 0.90 58 iPn 07 54.50 -0.4
YER 1.10 278 iPn 07 58.00 -0.3
KHL 1.34 356 ePn 08 02.80 0.4
CIN 1.38 297 eP 08 03.00 0.1
S.D. = 0.5 on 5 of 5 obs.

& JAN 09, 1991 22h 18m 43.90s
33.650 N 116.750 W
DEPTH = 6.0km (geophysicist)
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 2.7 (PAS).

PLM 0.31 198 iPd 18 50.50 0.3
PEC 0.42 305 iPd 18 52.10 -0.2
2 obs. associated

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* JAN 09, 1991 22h 59m 11.09± 2.07s
6.801 S ±10.3km 129.944 E ±11.0km
DEPTH = 83.2 ± 20.0 km
5.2mb (4 obs.)
BANDA SEA (280)

MTN 6.12 169 eP 00 41.70 0.9
KNA 8.97 187 iPd 01 19.90 -0.1
0.3s 197.00nm 6.4mb X
eS 02 50.00
QIS 16.57 147 eP 02 57.00 -2.8
iS 05 47.70
ASPA 17.20 168 iPd 03 05.50 -2.0
0.5s 140.60nm 5.4mb
Z 17s 0.30um 3.6MszX
iS 06 05.80
PMG 17.23 100 eP 03 10.00 2.0
MBL 17.31 213 iPd 03 09.00 0.2
0.4s 41.00nm 5.0mb
WARB 19.53 189 eP 03 35.00 0.3
0.4s 24.00nm 4.8mb
eS 07 03.00
FORR 23.99 184 eP 04 19.00 0.0
0.4s 60.00nm 5.4mb
MRWA 25.89 209 eP 04 38.70 1.7
e 05 05.00
eS 09 30.00
KLB 27.17 203 eP 04 49.00 0.4
BRS 29.82 136 iPd 05 12.00 -0.5
BFD 32.34 161 eP 05 36.00 1.5
CHG 39.77 310 eP 06 39.10 1.4
CHTO 39.77 310 eP 06 38.90 1.2
1.0s 2.75nm 4.1mb X
i 06 44.10
GUN 54.78 311 P 08 34.00 -1.2
PKI 54.95 310 P 08 35.60 -0.9
KKN 55.17 311 P 08 36.80 -1.0
DMN 55.20 310 P 08 37.20 -1.0
GKN 55.76 311 P 08 41.00 -1.1
MAIO 78.51 309 eP 11 06.00 0.9
YKA 107.60 26 ePKP 17 26.60 -3.0X
0.6s 0.40nm
KIC 134.99 272 PKP 18 23.40 0.0
LIC 135.27 272 PKP 18 24.00 0.1
TIC 135.29 273 PKP 18 23.90 0.0
ITB7 148.02 173 PKPd 18 49.60 3.6X
ITB 148.34 173 e(PKP) 18 50.50 4.0X
ITB1 148.46 172 e(PKP) 18 50.00 3.4X
CNCB 150.60 143 iPKPc 18 57.10 6.3X
LPB 150.74 143 PKP 18 56.80 5.9X
ZOBO 150.93 142 PKP 18 51.20 -0.2
i 18 57.20
CCH 151.19 147 (PKP) 19 00.00 8.6X
PPD 151.32 178 ePKP 18 57.00 5.9X
ANCC 153.10 96 iPKPc 19 00.28 6.3X
SALC 153.19 97 ePKPc 19 01.14 6.9X
HOOC 153.33 96 ePKPc 19 01.42 6.9X
SILC 153.50 98 ePKPc 19 02.47 7.5X
DIAC 153.73 96 ePKPc 19 02.16 7.1X
SIV 154.86 154 PKP 19 06.50 10.3X
S.D. = 1.3 on 24 of 38 obs.

JAN 09, 1991 23h 42m 10.39± 0.40s
38.369 N ± 4.1km 22.075 E ± 3.7km
DEPTH = 5.0km (geophysicist)
GREECE (364)
MD 3.7 (ATH).

EVR 0.59 339 iP 42 21.40 -0.7
AGG 0.68 17 iPc 42 23.20 -0.8
VLS 1.18 261 iP 42 30.80 -2.2
ITM 1.19 186 iP 42 31.60 -1.5
NEO 1.30 43 iP 42 35.30 0.4
ATH 1.35 106 iP 42 36.60 0.8
LIT 1.76 10 eP 42 42.00 0.3
VLI 1.78 157 ePb 42 41.80 -0.3
KZN 1.95 353 iP 42 45.40 0.9
KEK 2.22 308 iP 42 50.00 1.6
PLG 2.27 28 iP 42 48.40 -0.7
THE 2.36 17 eP 42 50.50 0.1
iS 43 23.00
FNA 2.47 348 iPd 42 52.00 0.0
SOH 2.64 22 iPd 42 54.00 -0.4
KNT 2.86 13 iP 42 57.60 0.1
OHR 2.91 341 iPnc 43 00.70 2.4
LQ 43 52.40
VAY 2.97 7 iPn 42 59.00 -0.1
SRS 2.98 23 iPd 42 58.70 -0.6
APE 3.03 114 iP 43 00.90 0.9
PRK 3.39 74 eP 43 08.20 3.1X
VAM 3.41 149 iP 43 04.60 -0.7
MMB 3.46 21 P 43 05.00 -1.0
KKB 3.58 12 eP 43 07.00 -0.7
SKO 3.63 353 iPn 43 09.60 1.2
i 43 14.00
iSn 43 54.00
iSg 44 13.30
LQ 44 20.50
LR 44 24.50
LCI 3.75 303 P 43 10.00 -0.1
SMG 3.82 98 eP 43 11.50 0.4
RDO 3.85 43 eP 43 13.00 1.5
RZN 3.89 31 eP 43 11.00 -1.2
IZM 4.08 88 eP 43 15.00 0.2
NPS 4.20 136 iP 43 17.50 0.9
BRT 4.52 305 Pc 43 23.10 2.0
TDS 4.65 288 P 43 24.50 1.6
ORI 4.69 293 P 43 24.60 1.1
BAI 4.86 306 P 43 24.00 -1.9
SGO 5.67 295 P 43 38.50 1.1
DUI 6.71 302 P 43 52.90 0.8
SDI 7.16 300 P 44 00.00 1.6
CMP 7.24 17 ePc 44 03.00 3.6X
AZI 7.54 301 P 44 05.00 1.4
MLR 7.68 21 eP 44 10.00 4.3X
CVO 8.05 21 eP 44 16.00 5.3X
VRI 8.25 23 eP 44 17.00 3.4X
ASS 8.55 306 P 44 18.70 0.9
ARV 8.60 309 P 44 17.00 -1.5
CRE 9.28 308 P 44 27.00 -0.9
SFI 9.50 309 P 44 30.00 -0.8
FVI 10.70 323 P 44 45.00 -2.3
CTI 10.89 318 P 44 48.00 -2.0
NB2 23.69 347 P 47 21.50 -2.1
0.7s 3.80nm 4.1mb
EKA 23.99 323 P 47 27.00 0.5
0.9s 9.90nm 4.4mb
S.D. = 1.2 on 45 of 50 obs.

% JAN 10, 1991 00h 03m 24.06± 3.02s
10.795 N ±15.1km 61.769 W ±19.4km
DEPTH = 10.0km (geophysicist)
TRINIDAD (98)
MD 3.3 (TRN).

TCE 0.10 171 eP 03 26.76 0.0
eS 03 34.14
TRN 0.39 112 eP 03 31.72 -0.3
eS 03 45.76
TPP 0.57 147 eP 03 35.43 -0.1
eS 03 49.03
TBH 0.76 114 eP 03 39.34 0.5
eS 03 56.29
BOT 1.10 70 eP 03 44.55 -0.1
eS 04 04.83
S.D. = 0.4 on 5 of 5 obs.

? JAN 10, 1991 00h 20m 28.66±21.72s
4.060 N ±43.7km 78.553 W ±169.km
DEPTH = 33.0km (normal)
SOUTH OF PANAMA (83)
MD 3.8 (UVC).

ANCC	1.77	108	iPc	20 57.49	0.0
			eS	21 18.70	
CLMC	1.99	95	iPc	21 01.34	0.5
			eS	21 25.60	
HOOC	2.00	107	ePc	21 00.64	-0.5
SALC	2.15	120	eP	21 02.84	-0.2
BUGC	2.30	94	ePc	21 05.37	0.2
			eS	21 32.60	
HOBC	2.43	83	ePc	21 06.78	-0.3
DIAC	2.47	108	eP	21 07.52	-0.2
SILC	2.60	122	eP	21 09.97	0.3

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

JAN 10, 1991 00h 39m 38.84± 2.01s
5.482 S ± 4.7km 151.850 E ± 4.9km
DEPTH = 19.6 ± 14.1 km
5.6mb (34 obs.) 5.3Msz (26 obs.)
NEW BRITAIN REGION (192)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 22S, 44C
Centroid Locotion:
Origin Time 00:39:48.1 0.4
Lat 5.41S 0.05 Lon 152.11E 0.04
Dep 15.0 FIX Half-duration 3.0
Moment Tensor; Scale 10**17 Nm
Mrr= 3.02 0.10 Mtt=-3.00 0.13
Mff=-0.02 0.13 Mrt= 4.90 0.37
Mrf= 1.09 0.31 Mtf=-1.56 0.10
Principal Axes:

	Val=	Plg=	Azm=
T	5.76	61	356
N	0.55	6	254
P	-6.31	28	161

Best Double Couple:Mo=6.0*10**17
NP1:Strike=234 Dip=18 Slip= 69
NP2: 76 73 97

RAB	1.32	14	iPd-	40 04.00	1.7
PMG	6.07	230	eP	41 12.00	2.2
SVO	8.70	115	P	41 46.00	-0.6
HNR	8.94	117	eP	41 48.00	-1.9
			eS	43 19.00	
QIS	19.13	217	iPd	44 03.70	0.1
	1.0s	116.00nm		5.1mb	
			i	44 14.00	
GUA	20.11	340	eP	44 14.90	0.4
	1.1s	1913.92nm		6.3mb	
			pP	44 17.40	9kmX
			eS	49 20.00	
PJG	20.17	340	eP	44 15.60	0.5
PVC	20.18	128	iPc	44 14.90	-0.3
RMQ	21.10	188	eP	44 24.00	-0.6
			i	44 26.00	
DZM	21.71	141	iPc	44 31.10	0.2
MTN	21.71	249	eP	44 32.30	1.4
	0.3s	54.00nm		5.4mb	
BRS	21.81	178	iPc	44 31.50	-0.3
			i	44 34.00	
			i	44 44.00	
			eS	48 29.00	
KNA	24.85	244	eP	45 02.00	0.4
	0.7s	571.00nm		6.3mb	
COO	24.96	180	eP	45 04.00	1.4
ASPA	25.01	222	eP	45 02.20	-1.0
	1.0s	274.20nm		5.9mb	
Z	20s	8.28um		5.2Msz	
			iS	49 27.50	
			iPcS	52 22.60	
			iScP	52 33.00	
			iScS	56 00.50	
CMS	26.48	192	eP	45 15.00	-1.7
DAV	29.04	295	eP	45 40.00	-0.1
CNB	29.78	184	eP	45 46.00	-0.6
WARB	31.68	227	eP	46 03.70	0.2
	0.4s	16.00nm		5.3mb	
ADE	31.75	201	e(P)	46 05.00	1.0
TOO	32.46	189	eP	46 12.00	1.8
BFD	32.67	194	eP	46 11.00	-1.0
FORR	33.69	219	eP	46 19.00	-1.8
	0.4s	34.00nm		5.6mb	
MBL	34.72	240	eP	46 28.00	-1.9
	0.6s	61.00nm		5.7mb	
BAG	37.81	306	eP	46 52.00	-4.3X
			eS	53 01.00	
MRWA	41.29	231	eP	47 24.00	-0.8
	0.7s	22.00nm		5.0mb	
ANP	42.41	317	e(P)	47 21.00	-13.1X
MUN	42.48	227	eP	47 34.00	-0.5
N	20s	6.60um			
E	20s	3.70um			
MAT	43.71	344	eP	47 40.00	-4.5X
	1.0s	11.00nm		4.6mb X	
Z	20s	1.77um		5.0Msz	
			eS	54 06.00	
QZH	44.28	315	eP	47 49.00	-0.2
Z	20s	2.80um		5.2Msz	
E	20s	2.70um			
			eS	54 25.50	
SSE	46.70	323	Pc	48 10.00	1.7
	1.4s	62.00nm		5.4mb	
Z	20s	3.70um		5.3Msz	
N	18s	2.10um			
E	18s	1.40um			
			sP	48 25.00	
			PcP	49 42.00	
			sS	55 18.00	
GZH	47.13	309	iPd	48 15.00	3.1X
	0.8s	60.00nm		5.7mb	
Z	20s	2.80um		5.2Msz	
QIZ	48.01	302	P	48 19.90	1.0
	1.2s	100.00nm		5.7mb	
N	17s	1.80um			
E	19s	2.10um			
NJ2	48.79	322	Pd	48 25.00	0.4
Z	20s	1.90um		5.1Msz	
N	16s	1.80um			
E	17s	2.60um			
			PcP	49 50.00	
WHN	50.70	317	iPd	48 43.70	4.4X
	1.0s	100.00nm		5.7mb	
Z	22s	2.10um		5.1Msz	
E	22s	3.60um			
IPM	51.73	280	ePd	48 50.00	2.5
	0.8s	28.10nm		5.2mb	
			e	49 02.10	
DL2	52.28	330	eP	48 46.00	-5.2X
Z	20s	1.24um		4.9Msz	
E	16s	1.26um			
SNY	53.69	334	iPc	49 00.00	-1.5
Z	18s	1.80um		5.2Msz	
N	16s	1.20um			
E	19s	1.30um			
			S	56 34.00	
			sS	56 45.00	
MDJ	53.73	340	eP	49 01.80	-0.1
Z	30s	2.30um		5.1MszX	
GYA	54.06	308	P	49 06.00	1.3
Z	36s	1.40um		4.8MszX	
N	20s	1.40um			
E	20s	3.00um			
CN2	54.54	337	Pc	49 05.00	-2.8
Z	16s	4.00um		5.6MszX	
N	16s	1.70um			
E	16s	0.50um			
			epP	49 15.00	33kmX
			PcP	50 07.00	
NST	55.34	293	eP	49 18.70	4.6X
BJI	55.94	327	eP	49 18.00	0.0
	1.2s	28.00nm		5.2mb	
Z	20s	2.69um		5.3Msz	
N	18s	1.67um			
			ePcP	50 17.00	
			eS	57 06.00	
XAN	56.47	317	P	49 20.60	-1.4
N	18s	2.30um			
E	17s	1.70um			
TIY	56.49	323	Pc	49 23.40	1.3
Z	22s	3.40um		5.4Msz	
N	19s	3.20um			
KMI	56.59	305	eP	49 23.50	0.2
KMI	56.59	305	Pc	49 25.00	1.7
	1.5s	0.10nm		2.6mb X	
CHG	57.43	296	eP	49 30.00	0.9
	1.2s	58.59nm		5.5mb	
			eS	57 32.00	
CHTO	57.43	296	eP	49 27.90	-1.2
	1.3s	58.01nm		5.4mb	
CD2	58.47	311	eP	49 35.40	-0.8
	1.0s	100.00nm		5.8mb	
Z	20s	5.60um		5.7Msz	
HHC	59.05	325	eP	49 39.40	-0.8
	1.0s	100.00nm		5.9mb	
Z	20s	4.10um		5.6Msz	
E	17s	1.30um			
			sP	49 54.00	
BTO	59.78	324	eP	49 44.50	-0.7
N	19s	1.60um			
E	19s	1.60um			
SMY	60.99	15	P	50 00.00	7.0X
Z	20s	4.00um		5.6Msz	
LZH	61.06	317	iPc	49 55.00	0.9
	6.0s	360.00nm		5.7mb X	
Z	20s	1.94um		5.3Msz	
E	16s	0.96um			
			PcP	50 32.00	
			PP	52 13.00	
			sS	58 35.00	
ADK	63.14	21	eP	50 07.30	-0.1
	1.2s	123.90nm		5.9mb	
GTA	65.52	318	eP	50 22.00	-1.4
	1.0s	33.00nm		5.4mb	
Z	20s	1.90um		5.3Msz	
E	18s	1.80um			
			sS	59 18.00	
GUN	71.67	302	P	51 01.20	-0.9
PKI	71.97	301	P	51 02.40	-1.5
KKN	72.14	301	P	51 03.60	-1.2
SDN	72.23	26	eP	51 03.30	-1.1
DMN	72.24	301	P	51 04.40	-1.0
GKN	72.75	301	P	51 07.00	-1.3
SBA	72.75	177	e(P)	51 13.60	6.4X
WMQ	75.60	318	P	51 23.50	-0.9
	8.0s	500.00nm		5.6mb X	
Z	22s	0.90um		5.0Msz	
			pP	51 37.10	47kmX
			PP	54 09.50	
KOD	75.70	282	eP	51 27.00	1.3
HYB	75.82	289	eP	51 25.50	-0.5
	1.0s	60.00nm		5.6mb	
GBA	76.24	285	P	51 29.00	0.7
ANM	76.71	18	eP	51 29.50	-0.6
KDC	77.23	27	eP	51 33.60	0.6
SVW	77.81	23	ePc	51 35.20	-1.1
TTA	78.75	22	eP	51 40.60	-0.9
	1.2s	139.30nm		5.9mb	
NDI	79.25	300	eP	51 43.00	-1.8
POO	80.42	290	eP	51 51.00	-0.3
PMR	80.69	25	eP	51 50.00	-1.8
	1.2s	152.00nm		5.9mb	
Z	19s	1.50um		5.4Msz	
IMA	81.41	20	eP	51 55.10	-0.6
	0.9s	25.60nm		5.3mb	
KLU	82.00	25	P	51 58.20	-0.5
TOA	82.17	25	eP	51 59.40	-0.2
FBA	82.87	22	eP	52 00.80	-2.3
	1.2s	205.30nm		6.1mb	
SPA	84.55	180	eP	52 11.00	-0.9
	0.6s	12.20nm		5.3mb	
SIT	85.35	32	eP	52 15.00	-0.7
	1.1s	130.50nm		6.1mb	
QUE	88.33	300	eP	52 30.30	-0.9
INK	89.43	21	eP	52 34.00	-1.3
	1.2s	76.00nm		5.8mb	
WDC	90.20	49	ePc	52 40.60	1.1
BMW	90.44	44	P	52 39.80	-0.8
ORV	90.87	51	ePc	52 43.50	0.9
GMW	90.88	42	P	52 42.00	-0.5
MIN	90.88	50	ePc	52 43.10	0.3
LLA	90.99	53	eP	52 42.60	-0.7
PRI	91.17	54	ePc	52 46.00	1.8
CMB	91.58	52	ePc	52 47.30	1.3
FRI	92.02	53	ePc	52 48.90	1.0
ISA	92.90	55	eP	52 53.00	0.9
PAS	93.02	56	eP	52 54.00	1.4
MWC	93.12	56	eP	52 55.00	1.7
PNT	93.16	41	eP	52 54.00	1.1
BONR	93.21	52	P	52 54.00	0.2
SBB	93.35	56	eP	52 56.00	1.8
CLC	93.62	55	eP	52 57.00	1.6
RVR	93.67	56	eP	52 57.00	1.4
TNP	94.08	52	P	52 58.80	1.1
	1.3s	28.91nm		5.5mb	
GSC	94.23	55	eP	53 01.00	2.7
NEW	94.74	42	P	52 58.50	-1.8
	1.0s	23.75nm		5.6mb	

10d 00h

MBC	95.00	14	eP	53	00.00	-0.9
	1.0s	29.00nm			5.7mb	
MAIO	95.11	306	eP	53	03.00	0.7
			e	56	53.00	
GLA	95.74	57	eP	53	10.00	4.8X
YKA	96.47	28	eP	53	06.50	-1.3
	0.8s	15.60nm			5.6mb	
EDM	97.23	37	eP	53	11.00	-0.5
LRM	97.87	45	eP	53	15.20	0.4
SES	98.73	40	eP	53	17.00	-1.3
ALO	102.70	56	ePdiff	53	38.00	1.2X
Z	20s	0.53um			5.1Msz	
ANMO	102.70	56	Pdiff	53	40.00	3.2X
GOL	103.31	51	Pdiff	53	50.00	10.5X
Z	18s	0.87um			5.3Msz	
FFC	103.78	35	ePdiff	53	42.00	1.2X
	0.9s	17.00nm			5.9mb	
TAB	105.58	308	ePKP	58	12.00	9.1X
FRB	114.97	19	ePKP	58	18.00	-1.7
NB2	117.22	340	PKP	58	23.30	-0.9
	1.1s	5.40nm				
KRA	120.08	326	ePKP	58	28.90	-1.0
SPC	120.35	325	ePKP	58	31.60	0.9
KSP	121.60	329	ePKP	58	33.20	0.4
VAY	122.49	316	ePKP	58	33.70	-1.1
ZST	122.64	326	ePKP	58	35.50	0.7
BRG	122.78	330	ePKP	58	36.00	1.0
	1.5s	23.00nm				
			e	58	47.10	
CLL	122.98	331	ePKPd	58	36.00	0.6
	2.0s	41.00nm				
SKO	122.99	317	ePKP	58	36.00	0.3
OHR	123.79	317	ePKP	58	34.00	-3.4X
RSNY	123.88	39	PKP	58	37.20	-0.2
KHC	124.03	328	PKP	58	37.90	0.3
Z	18s	1.50um			5.7Msz	
E	18s	1.00um				
HBVT	124.87	38	PKP	58	40.30	1.0
VBY	125.17	324	e(PKP)	58	40.90	1.1
LJU	125.30	325	e(PKP)	58	41.00	0.9
CEY	125.53	324	e(PKP)	58	40.50	-0.1
VOY	125.67	325	e(PKP)	58	41.80	0.8
FVI	125.97	326	PKP	58	45.00	3.6X
SOTA	126.45	327	i(PKP)	58	44.10	1.6
	0.7s	6.30nm				
			i	59	13.40	
			i	59	18.60	
CTI	126.93	326	PKP	58	45.00	1.6
TDS	127.49	317	PKP	58	47.00	2.5X
ARV	127.67	323	PKPd	58	47.60	2.8
CDF	127.68	331	ePKP	58	41.70	-3.0X
SGO	127.74	318	PKP	58	47.50	2.6
SFI	128.07	324	PKPd	58	49.00	3.6X
SDI	128.11	320	PKP	58	47.00	1.3
CRE	128.18	323	PKP	58	53.00	7.1X
AZI	128.20	321	PKP	58	48.50	2.8
BSF	128.31	331	ePKP	58	43.30	-2.7
	1.0s	16.00nm				
HAU	128.41	331	ePKP	58	43.60	-2.4
Z	21s	0.88um			5.4Msz	
MNS	128.45	322	PKP	58	45.50	-0.8
VAI	128.61	328	PKP	58	51.40	5.0X
BDI	128.72	325	PKP	58	53.00	6.2X
BOB	128.94	326	PKP	58	50.00	2.8
ORO	129.19	328	PKP	58	54.00	6.3X
LOR	130.12	332	ePKP	58	48.80	-0.5
Z	21s	1.02um			5.5Msz	
BNI	130.26	328	PKP	58	53.00	3.2X
SSF	130.43	332	ePKP	58	49.60	-0.3
	1.2s	26.80nm				
PGF	130.56	324	ePKP	58	49.40	-1.0
	1.3s	43.30nm				
SMF	130.58	331	ePKP	58	49.60	-0.6
	1.5s	54.85nm				
AVF	130.70	332	ePKP	58	49.70	-0.7
	1.5s	36.55nm				
FRF	131.26	327	ePKP	58	50.60	-1.0
	1.2s	29.75nm				
LMR	131.48	326	ePKP	58	51.20	-0.8
	1.3s	32.50nm				
LRG	131.48	327	ePKP	58	51.30	-0.7
	1.3s	43.30nm				
Z	22s	1.02um			5.5Msz	
LPF	131.69	336	ePKP	58	51.80	-0.4
BCAO	133.49	271	ePKPc	58	53.00	-3.7X
	0.8s	11.00nm				
			ic	58	56.10	

CNCB	134.83	120	PKP	58	52.00	-7.8X
			i	02	31.00	
LPB	134.84	120	PKP	59	01.00	1.3
			e	02	31.00	
ZOBO	134.93	119	PKP	58	57.00	-3.0X
	1.1s	11.60nm				
Z	22s	0.44um			5.1Msz	
			PKS	02	31.70	
			LR	43	46.00	
CCH	136.14	122	PKP	59	05.20	3.2X
SDV	137.73	83	ePKP	58	57.60	-7.4X
TOV	138.53	81	ePKP	58	58.10	-8.1X
SIV	141.05	124	PKP	59	03.70	-7.0X
LIJA	142.44	329	ePKP	59	09.50	-3.2X
GIBL	142.77	330	ePKP	59	10.00	-3.1X
CNIL	143.18	330	ePKP	59	09.50	-4.3X
PLAT	143.22	329	ePKP	59	10.00	-3.9X
PPD	144.47	141	ePKP	59	13.50	-2.9X
IFR	144.84	325	iPKPd	59	15.00	-2.0
			i	59	17.00	
PAG	145.49	70	ePKP	59	16.00	-2.3
VAO	146.24	148	ePKP	59	19.70	0.2
			e	59	26.80	
			e	59	39.70	
AVE	146.26	328	iPKPd	59	19.80	0.7
			i	59	32.50	
SVB	146.47	74	ePKP	59	18.58	-1.4
SVV	146.49	74	ePKP	59	19.30	-0.7
TIO	147.97	325	iPKPd	59	23.00	0.9
BAO	151.25	137	ePKPd	59	30.00	2.5
TEGH	151.98	272	ePKP	59	37.50	9.0X
SHGH	152.03	272	ePKP	59	35.50	6.9X
LEGH	152.16	272	ePKP	59	36.00	7.2X
KOGH	152.23	273	ePKP	59	29.50	0.6
WEGH	152.31	272	ePKP	59	36.00	7.0X
KIC	156.70	273	PKP	59	34.96	0.0
LIC	156.99	273	PKP	59	35.58	0.3
Z	21s	0.75um			5.5Msz	
SOB1	160.65	139	ePKP	59	40.00	0.6
			e	00	23.30	
			e	00	44.20	
	S.D. = 1.3	on 148 of 189 obs.				

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* JAN 10, 1991 01h 28m 07.58± 1.38s
31.404 S ±11.1km 72.568 W ±19.2km
DEPTH = 97.0 ± 22.2 km
OFF COAST OF CENTRAL CHILE (134)

ROCH	2.05	140	iPc	28	40.50	-0.9
			iS	29	06.20	
JACH	2.11	128	iPd	28	42.00	-0.1
			iS	29	07.00	
LCCH	2.23	158	iPc	28	44.10	0.5
			iS	29	11.00	
PEL	2.36	138	iPc	28	45.20	-0.2
			iS	29	12.50	
SAN	2.60	142	eP	28	44.50	-4.2X
			i	29	48.50	
			iS	30	18.20	
TACH	2.63	149	iPc	28	49.70	0.6
			iS	29	21.00	
FCH	2.72	135	iPc	28	50.50	0.0
			iS	29	22.80	
LNV	2.72	159	iPc	28	50.00	-0.3
			iS	29	21.50	
PCH	2.81	142	iP	28	51.50	-0.1
			iS	29	25.50	
ZON	3.33	93	eP	28	58.80	0.2
			eS	29	37.30	
MDZ	3.48	116	iP	29	07.80	7.1X
			i	29	26.40	
			iS	29	46.90	
CNCB	15.12	17	P	31	38.00	0.3
LPB	15.35	16	P	31	42.00	1.4
ZOBO	15.60	16	P	31	43.00	-0.8
SIV	18.58	37	(P)	32	18.00	-2.0
PPD	21.13	69	eP	32	47.40	1.2
	S.D. = 1.0	on 14 of 16 obs.				

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* JAN 10, 1991 01h 33m 18.10± 0.85s
34.331 N ±15.1km 74.662 E ± 7.9km
DEPTH = 33.0km (normal)
3.9mb (3 obs.)
SOUTHWESTERN KASHMIR (711)
Felt in the Srinagar area.

			eS	36	37.00	
GKN	10.62	124	P	35	51.40	0.3
DMN	11.19	124	P	35	59.00	0.0
KKN	11.19	123	P	35	58.60	-0.5
PKI	11.42	123	P	36	02.00	-0.2
GUN	11.54	121	P	36	04.40	0.5
GBA	20.79	172	P	38	15.00	16.0X
APO	46.53	324	eP	41	43.90	0.0
	0.4s	0.90nm			4.1mb	
DAV	54.08	108	eP	42	55.00	13.0X
WRA	78.31	124	P	45	21.00	4.3X
	0.5s	0.80nm			4.0mb	
YKA	83.23	4	eP	45	47.40	5.4X
	0.4s	0.20nm			3.6mb	
	S.D. = 0.4	on 7 of 11 obs.				

% JAN 10, 1991 02h 04m 45.77± 0.72s
40.714 N ± 7.8km 28.650 E ± 5.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.5 (ISK).

YLV	0.57	105	iPg	04	56.70	-0.7
BNT	0.66	238	ePg	04	58.20	-0.7
			iSg	05	07.70	
HRT	0.78	82	iPg	05	01.30	0.3
			iSg	05	12.30	
KGT	1.06	256	iPn	05	05.80	0.1
DST	1.11	181	ePn	05	07.40	0.8
DMK	1.30	329	ePn	05	10.00	0.2
	S.D. = 0.8	on 6 of 6 obs.				

& JAN 10, 1991 02h 12m 23.03s
63.105 N 150.922 W
DEPTH = 131.2km
3.5mb (2 obs.)
CENTRAL ALASKA (1)
<AEIC>. Felt (III) at Skwentna and (II) at Talkeetna.

HUR	0.60	102	eP	12	42.43	-0.7
			eS	12	57.60	
CUT	0.76	157	eP	12	43.95	-0.3
RND	0.98	71	iP	12	45.61	-0.7
			eS	13	03.73	
MCK	1.09	54	iP	12	46.83	-0.4
			eS	13	05.44	
SKT	1.16	194	iP	12	47.60	-0.4
BWN	1.25	31	iP	12	48.83	0.0
			eS	13	09.09	
PWA	1.54	161	iP	12	51.98	0.0
GHO	1.63	144	iP	12	52.81	-0.3
			eS	13	15.90	
SUA	1.65	177	eP	12	53.34	-0.1
NEA	1.69	28	iP	12	52.72	-1.0
PLRM	1.73	150	iP	12	53.48	-0.7
PMR	1.73	150	iPc	12	53.60	-0.6
NCG	1.80	199	iP	12	54.82	-0.4
CGLM	1.87	196	eP	12	55.54	-0.5
CRP	1.93	198	eP	12	57.05	0.2
BGL	1.97	201	eP	12	57.32	0.1
PMS	1.97	161	iP	12	56.66	-0.6
SPU	2.00	196	iP	12	57.03	-0.6
CKL	2.03	200	iP	12	57.74	-0.2
KNK	2.05	145	iP	12	57.40	-0.8
CCB	2.07	40	iP	12	57.45	-0.9
HDA	2.19	52	eP	12	58.85	-1.1
MDM	2.21	31	iP	12	59.11	-1.0
			eS	13	27.58	
FBA	2.27	36	iPd	13	00.10	-0.7
TTA	2.33	268	iPc	13	01.00	-0.7
THY	2.36	80	eP	13	02.99	1.0
DDM	2.37	71	eP	13	01.86	-0.4
NKA	2.38	184	eP	13	04.23	2.1
TOA	2.41	112	iPc	13	02.40	-0.4
PAX	2.49	91	iP	13	03.15	-0.6
SDG	2.54	181	eP	13	03.56	-0.7
SLKM	2.63	172	eP	13	04.96	-0.5
RDT	2.64	196	eP	13	04.99	-0.6
NCT	2.72	201	eP	13	06.45	-0.3
RDN	2.74	199	eP	13	06.27	-0.8
REF	2.76	199	eP	13	07.07	-0.3
TZL	2.76	110	iP	13	06.81	-0.3
RS2	2.79	199	eP	13	07.47	-0.3
RED	2.84	199	eP	13	08.23	0.0
KLU	2.84	122	iP	13	06.56	-1.7
GLI	2.87	139	iP	13	07.13	-1.5
QUE	7.73	240	eP	35	11.30	0.0

VZW	2 90 133	iP	13	07.24	-1.9	
VLZ	2.93 131	iP	13	07.28	-2.0	
SVW	2.98 230	iPd	13	09.40	-0.7	
NNL	3.08 183	eP	13	12.05	0.7	
SEW	3.09 166	eP	13	10.45	-1.0	
KNIM	3.15 150	iP	13	10.34	-2.0	
IMA	3.20 339	iPc	13	12.10	-1.0	
INE	3.22 199	eP	13	12.79	-0.6	
BRLK	3.35 180	eP	13	14.41	-0.6	
LTI	3.41 153	iP	13	13.85	-1.8	
HIN	3.44 140	eP	13	14.52	-1.6	
HOM	3.48 186	eP	13	16.65	0.1	
MTU	3.50 152	eP	13	15.28	-1.6	
CVA	3.55 134	eP	13	16.11	-1.4	
CNPM	3.60 183	iP	13	17.72	-0.5	
OPT	3.64 199	eP	13	18.91	0.1	
PDB	3.68 207	eP	13	18.89	-0.4	
XLV	3.68 186	eP	13	19.02	-0.3	
GLB	3.72 113	iP	13	18.52	-1.4	
SGAM	3.77 131	eP	13	18.58	-1.9	
AUE	3.94 199	eP	13	24.06	1.3	
AUP	3.95 199	eP	13	22.97	0.0	
AUH	3.95 199	eP	13	23.19	0.2	
AUI	3.97 199	eP	13	24.95	1.7	
RAGM	4.03 130	eP	13	22.29	-1.8	
HMT	4.21 128	eP	13	24.64	-1.9	
MID	4.30 147	eP	13	27.43	-0.2	
KAIM	4.46 133	eP	13	27.42	-2.3	
TGL	4.49 118	eP	13	28.31	-2.0	
BALM	4.54 113	eP	13	28.98	-1.9	
SYI	4.57 190	eP	13	30.32	-0.9	
WAX	4.67 121	eP	13	30.58	-2.1	
CTGM	5.00 111	eP	13	35.58	-1.6	
WRG	5.24 122	eP	13	39.10	-1.3	
KDC	5.43 189	eP	13	41.00	-1.8	
BCPM	6.25 115	eP	13	52.16	-2.0	
PNL	6.52 117	eP	13	55.78	-2.0	
HON	6.86 117	eP	14	00.04	-2.3	
INK	8.85 46	P	14	26.00	-3.0	
	0.6s	1.10nm			3.7mb	
YKA	16.48 76	eP	16	08.00	0.6	
	0.4s	0.60nm			3.2mb	
MBC	16.77 26	eP	16	11.50	0.6	
	82 obs. ossociated					

? JAN 10, 1991 02h 18m 52.86± 1.64s
4.575 N ±18.8km 76.310 W ±24.3km
DEPTH = 118.0km (geophysicist)
COLOMBIA (103)
MD 3.8 (UVC).

HOBC	0.28 142	iPd	19	10.82	-0.3	
BUGC	0.68 176	eP	19	12.75	0.5	
CLMC	0.73 200	iPd	19	13.29	0.5	
		eS	19	27.80		
HOQC	1.15 196	eP	19	16.66	-0.2	
ANCC	1.19 208	eP	19	16.71	-0.3	
DIAC	1.28 175	iPc	19	17.92	-0.3	
		eS	19	35.80		
SALC	1.64 194	ePc	19	22.35	0.0	
SILC	1.88 181	iPd	19	25.33	-0.2	
PURC	2.24 181	ePc	19	30.54	0.3	
		eS	19	57.90		
	S.D. = 0.4	on 9 of 9 obs.				

• JAN 10, 1991 02h 36m 55.74± 2.34s
1.493 N ± 9.9km 126.479 E ±13.9km
DEPTH = 43.3 ± 21.2 km
4.6mb (5 obs.)
MOLUCCA PASSAGE (266)

MNI	1.64 268	ePd	37	22.60	0.0	
		eS	37	37.00		
QIS	25.41 150	iPc	42	22.20	1.1	
ASPA	26.03 164	eP	42	24.20	-2.7	
	1.0s	17.30nm			4.6mb	
	Z 23s	0.20um			3.6MszX	
		iS	46	56.20		
WARB	27.51 180	eP	42	42.00	1.6	
	0.3s	3.00nm			4.4mb	
GYA	31.29 324	P	43	14.40	0.2	
CHTO	32.01 304	eP	43	20.10	-0.4	
	0.6s	0.70nm			3.7mb	
CD2	36.32 326	P	43	56.70	-0.7	
MAT	36.52 16	(P)	43	58.00	-1.1	
TIY	38.29 342	eP	44	15.40	1.4	
BJI	39.50 348	eP	44	24.00	0.1	
SNY	40.24 357	eP	44	31.00	1.1	
LZH	40.31 331	eP	44	31.00	0.1	
	1.6s	32.00nm			4.9mb	
	Z 25s	0.36um			4.1MszX	
		pP	44	37.50	22kmX	
GUN	46.86 308	P	45	23.80	-0.4	
	0.4s	14.00nm			5.3mb	
PKI	47.08 307	P	45	25.40	-0.5	
KKN	47.28 307	P	45	27.00	-0.3	
DMN	47.34 307	P	45	28.20	0.3	
GKN	47.89 307	P	45	31.20	-0.8	
HYB	49.67 292	eP	45	45.00	-0.7	
GBA	49.97 286	P	45	50.00	2.0	
WMQ	54.42 326	P	46	21.00	0.0	
QUE	63.14 303	eP	47	21.10	-0.9	
MAIO	70.67 308	eP	48	10.00	0.6	
YKA	101.63 25	ePdiff	51	04.50	19.8X	
	0.8s	0.40nm				
	S.D. = 1.1	on 22 of 23 obs.				

• JAN 10, 1991 02h 54m 51.36± 0.52s
1.353 N ± 8.4km 126.161 E ± 8.9km
DEPTH = 33.0km (normal)
5.0mb (6 obs.) 3.8Msz (1 obs.)
MOLUCCA PASSAGE (266)

MNI	1.32 274	iPd	55	13.50	-0.2	
QIZ	23.76 319	eP	00	03.70	1.9	
QIS	25.45 150	eP	00	18.00	-0.1	
ASPA	25.98 164	eP	00	23.30	0.2	
	0.4s	15.90nm			5.0mb	
	Z 22s	0.30um			3.8Msz	
		ipP	00	52.40	139kmX	
		eS	04	52.20		
GYA	31.22 325	Pd	01	10.60	0.4	
CHTO	31.83 305	eP	01	17.00	1.4	
	0.8s	0.80nm			3.7mb X	
CD2	36.25 326	P	01	53.30	-0.3	
XAN	36.30 335	P	01	52.60	-1.3	
MAT	36.75 16	eP	01	56.00	-1.6	
	1.0s	15.00nm			4.8mb	
DL2	37.60 354	eP	02	05.00	0.3	
	1.0s	130.00nm			5.7mb	
TIY	38.33 342	eP	02	11.80	0.8	
BJI	39.56 348	eP	02	20.00	-1.1	
LZH	40.28 332	eP	02	27.50	0.2	
	1.6s	44.00nm			5.0mb	
		pP	02	43.50	63kmX	
SNY	40.36 357	Pc	02	27.40	-0.2	
	0.8s	30.00nm			5.1mb	
MDJ	43.19 4	Pd	02	52.30	1.5	
GUN	46.70 308	P	03	20.00	0.4	
PKI	46.91 307	P	03	21.60	0.3	
KKN	47.11 308	P	03	22.20	-0.5	
DMN	47.17 307	P	03	21.40	-1.8	
GKN	47.72 308	P	03	27.20	-0.2	
HYB	49.42 292	eP	03	41.00	0.4	
GBA	49.71 287	Pc	03	41.70	-1.0	
	0.6s	2.40nm			4.4mb	
WMQ	54.35 326	P	04	17.00	-0.3	
MAIO	70.51 308	eP	06	05.00	-0.2	
INK	92.57 21	eP	08	01.00	0.6	
MBC	94.38 13	eP	08	09.00	0.4	
ZOBO	159.56 137	PKP	14	52.00	2.6X	
	S.D. = 0.9	on 26 of 27 obs.				

• JAN 10, 1991 02h 55m 12.46± 1.08s
24.077 S ±11.5km 66.673 W ± 7.5km
DEPTH = 207.8 ± 10.5 km
4.2mb (2 obs.)
SALTA PROVINCE, ARGENTINA (129)

ANT	3.45 275	iPc	56	08.20	0.0	
		iS	56	47.30		
CCH	6.68 4	P	56	53.80	4.2X	
CNCB	7.33 350	Pc	56	59.70	1.2	
		S	58	21.00		
LPB	7.62 350	P	57	03.00	0.8	
		S	58	25.00		
ZOBO	7.89 350	P	57	06.00	0.2	
		S	58	31.00		
ARE	8.82 328	iP	57	15.50	-2.1	
		iS	58	49.50		
SIV	9.61 34	Pc	57	26.90	-0.6	
PPD	14.29 85	eP	58	27.80	1.0	
		e	58	31.30		
VAO	18.10 91	ePc	59	10.90	-0.6	
		e	59	31.70		
BAO	19.46 68	ePc	59	25.00	-0.5	
SOB1	28.71 63	(P)	00	53.00	0.5	
		e	00	53.40		
KIC	67.49 72	P	05	47.30	-1.1	
ALO	69.77 326	eP	06	02.80	0.6	
	0.9s	3.36nm			4.1mb	
YKA	94.30 340	eP	08	08.80	0.1	
	0.6s	1.50nm			4.3mb	
ASPA	128.51 204	ePKP	13	57.20	0.5	
	0.8s	5.90nm				
WRA	131.69 207	PKP	14	03.00	0.2	
	0.7s	2.80nm				
GBA	144.57 101	PKP	14	26.00	-0.3	
HYB	146.87 95	ePKP	14	33.20	3.1X	
	S.D. = 0.9	on 16 of 18 obs.				

% JAN 10, 1991 03h 02m 20.12± 1.64s
46.221 N ±16.3km 2.816 E ± 8.1km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.0 (LDG).

MAF	0.17 270	Pg	02	24.70	0.6	
		Sg	02	27.90		
BGF	0.34 4	Pg	02	27.60	0.5	
		Sg	02	32.70		
TCF	0.43 279	Pg	02	28.10	-0.7	
		Sg	02	33.60		
AVF	0.68 33	Pg	02	32.50	-1.1	
		Sg	02	42.40		
SMF	0.83 59	Pg	02	36.40	0.3	
SSF	0.97 29	Pg	02	38.80	0.3	
		Sg	02	50.80		
LOR	1.27 34	Pg	02	43.80	0.1	
		Sg	03	00.00		
	S.D. = 0.8	on 7 of 7 obs.				

• JAN 10, 1991 03h 30m 09.85± 2.36s
11.790 N ± 7.7km 87.084 W ±13.8km
DEPTH = 72.7 ± 22.6 km
4.7mb (14 obs.)
NEAR COAST OF NICARAGUA (74)

ANCC	13.04 128	eP	33	13.00	-0.7	
CLMC	13.05 126	eP	33	13.30	-0.6	
HOBC	13.11 123	eP	33	12.80	-1.9X	
SALC	13.52 130	eP	33	24.10	4.0X	
DIAC	13.70 127	eP	33	22.00	-0.4	
CUMC	14.12 139	eP	33	34.20	5.9X	
PURC	14.19 131	eP	33	30.90	1.6X	
SGS	22.14 15	P	35	04.00	3.3X	
PRM	22.61 10	P	35	06.80	1.5	
PWLA	23.10 358	P	35	11.20	1.1	
UYO	23.27 344	iPd	35	12.50	0.8	
LHS	23.30 13	P	35	13.80	1.8	
RSCP	23.74 3	P	35	17.20	0.8	
GBTN	23.91 6	P	35	19.20	1.2	
OLY	23.94 351	P	35	18.70	0.5	
TKL	23.95 7	P	35	19.00	0.6	
TUL	25.27 343	ePc	35	30.20	-0.7	
	0.8s	61.80nm			5.1mb	
ELC	25.46 356	P	35	31.80	-0.8	
BLA	26.01 12	P	35	38.90	1.1	
	0.8s	6.71nm			4.2mb	
CVL	27.20 15	P	35	48.60	0.0	
ALQ	29.00 326	eP	36	05.00	-0.1	
	0.8s	5.22nm			4.2mb	
ANMO	29.00 326	P	36	03.40	-1.7	
	1.2s	24.41nm			4.7mb	
LVNJ	30.87 18	P	36	21.90	0.5	
WVLY	31.45 12	P	36	26.10	-0.5	
GOL	32.17 333	P	36	33.30	0.2	
	0.9s	8.52nm			4.6mb	
ZOBO	33.60 146	P	36	45.00	-1.1	
		e	39	26.00		
LPB	33.83 146	P	36	50.00	2.1	
CNCB	34.12 146	P	36	49.50	-1.1	
		e	39	27.00		
RSNY	34.38 16	P	36	50.80	-1.1	
	0.9s	12.39nm			4.8mb	
MSU	34.76 324	P	36	56.60	1.1	
DAU	35.59 328	P	37	03.20	0.6	
CCH	35.61 144	P	37	05.30	2.3	
TNP	37.54 319	P	37	20.50	1.6	
SIV	37.74 136	iPc	37	20.10	-0.5	
BONR	38.16 318	P	37	27.00	2.8X	

10d 03h

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LRM    40.20 332 eP     37 41.80    0.8
SES    43.22 338 eP     38 05.00   -0.4
NEW    44.15 331 P      38 13.10    0.1
        0.8s     6.25nm          4.5mb
DPW    44.40 330 P      38 15.30    0.3
FFC    44.41 348 iPc    38 14.30   -0.6
        0.8s    30.00nm          5.2mb
SCH    45.81  16 eP     38 24.00   -2.0
PNT    46.07 331 eP     38 29.00    0.8
        0.7s    12.00nm          4.9mb
EDM    46.35 338 iP     38 30.00   -0.4
PPD    48.59 134 eP     38 45.90   -2.3X
FRB    53.51  10 eP     39 21.00   -3.7X
YKA    54.34 345 eP     39 28.90   -2.0
        0.8s    12.90nm          5.0mb
INK    63.94 343 eP     40 35.00   -2.1
KLU    65.09 333 P      40 44.60   -0.2
PMR    66.56 333 P      40 52.60   -1.4
        0.9s     6.25nm          4.6mb
MBC    66.72 352 ePd    40 53.60   -1.3
        0.9s    12.00nm          4.8mb
FBA    67.17 336 P      40 56.20   -1.7
        0.7s     7.27nm          4.7mb
TTA    70.03 333 P      41 13.80   -1.8
        0.8s     6.03nm          4.6mb
BFD   128.96 231 e(PKP)49 02.00   -9.3X
SSE   129.45 328 ePKP   49 13.50    1.2
ADE   132.57 233 ePKP   49 20.20    1.9
QIS   134.45 253 e(PKP)49 10.00  -12.2X
ASPA  139.35 247 ePKP   49 28.60   -2.7X
        1.6s     5.50nm
WRA   139.42 253 PKP    49 32.00    0.5
        0.6s     3.90nm
GBA   150.47  32 PKP    49 50.00    0.0
BDT   150.53 348 ePKP   49 56.00    6.0X
        0.7s    35.20nm
KOD   153.27  36 ePKP   50 02.90    8.4X
     S.D. = 1.2  on  48 of  61 obs.
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%  JAN  10, 1991  03h 33m 30.25± 0.84s
   39.372 N ± 6.4km   27.979 E ± 9.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
     MD 2.4 (ISK).

DST     0.55  65 iPg    33 41.50    0.0
                eSg    33 50.00
KCT     0.92  18 ePn    33 48.20    0.3
EDC     0.98 355 ePn    33 48.50   -0.3
BNT     0.98 357 ePn    33 48.70   -0.2
IZM     1.12 210 ePn    33 51.30    0.0
KGT     1.20 334 iPn    33 52.80    0.3
     S.D. = 0.3  on   6 of   6 obs.
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   JAN  10, 1991  03h 41m 02.69± 0.13s
   18.006 S ± 4.0km  173.589 W ± 4.6km
   DEPTH =  22.6km  (  6 depth phases)
   5.6mb ( 39 obs.)  5.3Msz ( 18 obs.)
 TONGA ISLANDS                   (173)
     Ms 5.9 (BRK). Mo=6.0*10**17 Nm
     (PPT).
     CENTROID, MOMENT TENSOR     (HRV)
     Dotо Used: GDSN
     L.P.B.: 24S, 51C
     Centroid Location:
     Origin Time          03:41:12.2 0.3
     Lot 17.90S 0.04 Lon 173.19W 0.03
     Dep  16.1 1.4 Half-durotion  2.5
     Moment Tensor;   Scale 10**17 Nm
       Mrr= 3.61 0.07  Mtt= 0.47 0.11
       Mff=-4.08 0.12  Mrt=-0.09 0.23
       Mrf= 0.93 0.31  Mtf= 0.70 0.07
      Principal Axes:
       T  Val=  3.72  Plg=83  Azm=270
       N        0.57        1      172
       P       -4.29        7       82
     Best Double Couple:Mo=4.0*10**17
      NP1:Strike=170 Dip=38 Slip=  88
      NP2:       352      52       91

AFI     4.43  23 P      42 06.00   -4.3X
                S      43 04.00
MBU     7.41 277 ePc    43 01.00    8.7X
VUN     7.56 269 iP     43 02.80    8.4X
SVA     7.57 268 eP     43 03.80    9.4X
SGE     8.10 272 ePc    43 10.60    8.6X
RAR    13.40 106 P      44 07.00   -7.1X

                S      46 14.00
PVC    17.23 268 iPc    45 11.00    7.4X
DZM    19.19 255 iPc    45 30.30    2.5X
PUZ    21.23 198 eP     45 49.60    0.3
WLZ    21.92 203 eP     45 58.10    1.9
TVO    23.16  93 eP     46 07.00   -1.7
        0.9s    55.00nm          5.1mb
TBI    23.18 107 iP     46 09.70    0.9
        1.1s   150.00nm          5.4mb
PGZ    24.17 199 eP     46 18.50    0.3
MNG    24.42 200 eP     46 19.70   -1.1
KIW    24.84 201 eP     46 24.10   -0.6
MTW    24.90 200 eP     46 25.30   -0.1
CAW    25.00 201 eP     46 24.80   -1.5
BLW    25.10 200 eP     46 27.00   -0.3
MRW    25.24 201 eP     46 26.80   -1.7
RUV    25.26  88 eP     46 27.00   -1.9
        0.9s    60.00nm          5.2mb
WEL    25.26 201 P      46 28.00   -0.7
                S      50 59.00
THZ    26.35 203 eP     46 38.00   -0.9
KHZ    26.69 202 eP     46 40.50   -1.4
SVO    27.28 285 eP     46 59.00   11.4X
LTZ    27.46 203 P      46 46.70   -2.4
                e      46 55.20   30km
BRS    32.32 247 iPd    47 31.00   -1.5
                i      10 14.00
COO    33.72 242 iPd    47 42.70   -2.0
RMQ    35.76 250 eP     48 01.00   -1.1
CNB    37.06 235 eP     48 12.00   -1.1
CMS    39.00 242 eP     48 26.00   -3.3X
                i      48 32.50   22km
PMG    39.01 277 eP     48 29.00   -0.6
TOO    40.72 233 eP     48 43.00   -0.5
OPA    42.30  22 P      48 57.00    0.6
WRA    49.12 259 P      49 48.00   -2.9
        0.7s    33.90nm          5.5mb
ASPA   49.18 254 iPc    49 48.90   -2.4
        0.9s   209.80nm          6.2mb
     Z  22s     1.30um          4.9Msz
                iPcP   51 12.90
                iPcS   55 09.30
                iS     56 46.60
                eScS   59 34.10
FORR   54.08 245 eP     50 22.00   -6.0X
        0.4s    22.00nm          5.5mb
KNA    55.02 263 eP     50 32.00   -3.2X
        0.7s    82.00nm          5.9mb
WARB   55.57 250 eP     50 36.00   -3.1X
        0.6s    15.00nm          5.2mb
SBA    60.65 185 iPc    51 16.00    2.1
VNDA   60.78 186 iPc    51 15.90    1.2
MBL    62.40 255 eP     51 24.00   -2.5
NWAO   63.21 242 eP     51 31.40   -0.4
     Z  20s     1.40um          5.1Msz
     N  20s     1.30um
     E  20s     1.30um
                eS     00 03.00
ADK    69.64 358 ePc    52 10.60   -1.5
        1.1s   103.80nm          5.9mb
OFUJ   70.54 324 eP     52 16.70   -1.1
MAT    70.81 321 eP     52 19.00   -0.6
     Z  20s     1.06um          5.1Msz
                eS     01 28.00
YAMJ   70.83 323 eP     52 19.80    0.1
SMY    71.24 352 eP     52 20.10   -1.7
KUSJ   71.86 329 eP     52 24.90   -0.8
HOOJ   72.04 328 eP     52 25.90   -0.9
PRS    73.17  42 ePc    52 31.10   -2.6
GCC    73.21  41 ePc    52 33.20   -0.6
MRRJ   73.22 327 eP     52 33.30   -0.4
PCC    73.27  40 ePc    52 32.90   -1.2
BCH    73.30  43 P      52 34.60    0.0
SAO    73.39  41 ePc    52 34.40   -0.5
PRI    73.50  42 ePc    52 35.00   -0.7
BRK    73.58  40 ePc    52 35.60   -0.3
     Z  20s     2.40um          5.5Msz
                eLR    14 46.00
BKS    73.59  40 eP     52 36.30    0.2
        0.9s    84.00nm          5.8mb
     Z  20s     3.20um          5.6Msz
     N  20s     1.60um
     E  20s     2.30um
                eS     02 28.00
                eLO    11 20.00
                eLR    14 20.00
LLA    73.62  42 ePc    52 35.90   -0.4

                e      52 42.30   21km
MHC    73.62  41 ePc    52 36.20   -0.2
ASAJ   73.63 329 eP     52 36.90    0.8
ABL    73.67  44 P      52 36.50   -0.4
SDN    73.90   8 eP     52 36.10   -1.3
PLM    74.40  47 P      52 41.00   -0.1
FRI    74.63  42 ePc    52 41.00   -1.1
                e      52 47.00   19km
CMB    74.84  41 ePc    52 42.20   -1.1
ORV    75.10  39 eP     52 44.10   -0.7
WDC    75.13  38 ePc    52 43.80   -1.1
                e      52 50.20   21km
MIN    75.53  38 ePc    52 46.00   -1.4
GLA    75.66  48 P      52 48.50    0.3
LBFM   76.00  38 P      52 50.20    0.1
BONR   76.10  42 P      52 50.70   -0.2
TNP    76.87  42 P      52 54.70   -0.4
KDC    77.48  11 eP     52 57.40   -0.3
BMW    78.61  33 P      53 03.90   -0.4
                pP     53 22.40   68kmX
SSE    79.38 308 eP     53 06.40   -2.3
     Z  20s     0.70um          5.0Msz
                eS     03 08.00
                sS     03 28.00
RMW    79.99  33 P      53 11.80    0.0
SVW    80.15   9 ePc    53 11.20   -1.1
MSU    80.41  44 P      53 14.60    0.2
                pP     53 35.20   76kmX
DUG    80.89  43 P      53 16.50   -0.3
        0.9s    11.28nm          4.9mb
MDJ    80.97 323 Pd     53 18.00    1.1
        1.0s    40.00nm          5.4mb
     Z  32s     2.40um          5.3MszX
SIT    81.32  20 eP     53 18.10   -0.3
NJ2    81.59 307 Pd     53 20.00   -0.4
     Z  24s     0.50um          4.8MszX
PMR    81.70  12 ePc    53 19.40   -0.9
        1.1s    49.80nm          5.5mb
     Z  22s     1.10um          5.2Msz
TTA    81.84   8 ePc    53 21.20    0.0
        1.1s    73.10nm          5.6mb
KLU    82.25  13 P      53 22.50   -0.9
PNT    82.30  32 eP     53 23.00   -0.8
        1.0s    46.00nm          5.5mb
ANM    82.55   4 eP     53 25.00    0.3
ALQ    82.61  50 ePc    53 25.80   -0.1
        2.0s   102.94nm          5.6mb
     Z  22s     1.30um          5.3Msz
ANMO   82.61  50 P      53 26.20    0.3
        1.1s    75.95nm          5.7mb
     Z  20s     1.06um          5.2Msz
TOA    82.75  13 ePc    53 26.00    0.1
DL2    82.87 315 eP     53 26.00   -0.9
     Z  20s     0.68um          5.0Msz
                eS     03 46.00
NEW    82.95  34 P      53 26.50   -0.7
        0.8s    21.88nm          5.3mb
CN2    82.96 320 Pc     53 27.00   -0.3
        1.0s    30.00nm          5.4mb
     Z  22s     2.00um          5.4Msz
                epP    53 43.00   56kmX
                eS     03 47.00
SNY    83.07 318 iPc    53 28.00    0.1
        1.2s    50.00nm          5.5mb
     Z  23s     1.00um          5.1MszX
     N  22s     0.60um
     E  24s     0.80um
                sP     53 37.80
                iS     03 48.50
LRM    84.17  38 eP     53 33.00   -0.7
BW06   84.33  42 P      53 33.20   -1.4
TIA    84.75 311 P      53 38.00    1.5
     Z  24s     0.90um          5.1MszX
     E  19s     1.50um
                S      04 02.00
FBA    84.98  11 ePc    53 35.90   -1.1
        0.7s   164.60nm          6.4mb
IMA    85.15   8 ePc    53 38.20    0.2
        1.1s    75.40nm          5.8mb
GOL    85.59  46 P      53 41.20    0.2
        0.8s    25.30nm          5.5mb
     Z  18s     0.43um          4.9Msz
IPM    87.02 276 ePc    53 45.00   -3.2X
        0.9s    54.70nm          5.8mb
                e      54 03.40   66kmX
BJI    87.12 314 eP     53 48.00   -0.1
        1.5s    81.00nm          5.7mb
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	Z	28s	0.83um		5.0MszX	KRA	146.23	344	ePKPc	00	42.60	0.9	DSI	150.54	303	ePKP	00	48.00	-1.1
			eSKS	04	12.00		1.0s	93.00nm					LISJ	150.57	302	PKPd	00	50.57	1.5
			eS	04	30.00				e	00	52.10		SQTA	150.60	353	iPKPd	00	49.20	0.4
SES	87.44	35	ePc	53	49.40	-0.1	KSP	146.30	349	ePKP	00	42.50	0.6		1.0s	79.40nm			
	1.0s	115.00nm			6.1mb		1.0s	272.00nm								i	00	55.00	
			pP	53	57.00	24km			i	00	43.50					i	01	02.20	
EDM	87.79	31	ePc	53	50.00	-1.1	CLL	146.36	353	iPKPc	00	42.50	0.6	ALT	150.61	320	ePKP	00	55.00	5.9X
	1.2s	136.00nm			6.1mb		1.0s	500.00nm					CSS	150.71	311	ePKP	00	54.50	5.2X
TIY	88.79	310	Pd	53	58.40	2.1	RAC	146.63	346	ePKP	00	45.00	2.6X	LOMF	150.73	359	PKP	00	51.52	2.5X
	Z 22s	1.60um			5.4Msz				i	00	45.70		LOR	150.74	4	ePKP	00	49.00	0.1
	E 22s	3.60um							e	00	58.00			1.2s	52.05nm				
GYA	89.10	298	P	54	00.20	2.1	BRG	146.66	351	iPKP	00	42.80	0.4		Z 21s	1.45um			5.8Msz
			S	04	46.00		1.3s	270.00nm					BEO	150.79	339	ePKP	00	54.50	5.5X
LNV	89.77	126	iPd	54	02.00	1.0	SPC	146.94	343	ePKP	00	42.80	-0.4	KCT	150.85	324	ePKP	00	48.00	-1.3
BRW	89.83	5	P	54	00.10	-0.2				i	00	44.10		SSF	150.93	4	ePKP	00	49.30	0.1
XAN	90.00	306	P	54	02.50	0.5	KAS	146.98	321	iPKPc	00	45.10	1.8		1.3s	63.20nm			
SAN	90.54	125	eP	54	05.00	0.3	BNS	147.11	359	iPKPd	00	45.30	2.2X	OGA	150.97	353	ePKP	00	50.50	1.0
PEL	90.64	125	iPc	54	06.00	0.9		0.8s	230.00nm								i	00	56.20	
	1.0s	60.00nm			5.8mb		MOX	147.17	354	ePKP	00	45.00	1.7	MFF	150.97	9	ePKP	00	49.40	0.2
HHC	90.66	313	Pd	54	06.40	1.4		1.2s	108.00nm					FVI	151.01	351	PKP	00	52.40	3.1X
	1.0s	60.00nm			5.8mb		BMR	147.27	338	ePKPd	00	47.00	3.5X	BNT	151.01	325	ePKP	00	49.00	-0.5
INK	90.83	14	eP	54	04.00	-1.0	ENN	147.31	1	ePKP	00	46.00	2.6X	LBF	151.03	3	ePKP	00	49.40	0.0
	1.1s	45.00nm			5.7mb			1.0s	235.00nm						1.2s	38.70nm			
TUL	90.92	53	eP	54	05.60	-0.6	CFR	147.39	331	ePKP	00	45.00	1.3	EDC	151.05	325	ePKP	00	52.00	2.4X
	1.0s	24.00nm			5.5mb		PRU	147.43	350	ePKPc	00	44.50	0.8	PTJ	151.08	346	ePKP	00	50.60	1.1
	Z 20s	0.90um			5.2Msz					i	00	46.50		DST	151.13	323	ePKP	00	50.00	0.2
			LR	23	15.40					e	01	37.00		AVF	151.18	4	ePKP	00	49.20	-0.3
UYO	91.32	55	iPc	54	07.70	-0.3	CVO	147.77	334	ePKP	00	51.00	6.6X		1.1s	17.10nm			
BTO	91.64	312	eP	54	11.00	1.5	TNS	147.82	358	ePKPd	00	48.00	3.6X	LJU	151.24	348	ePKPc	00	48.50	-1.2
			SKS	04	43.00		TLB	147.89	330	ePKPc	00	52.00	7.5X				i	00	58.00	
KMI	91.98	296	eP	54	15.00	3.4X	MLR	148.13	334	ePKPd	00	49.00	3.9X	KGT	151.28	326	iPKP	00	54.70	4.8X
YKA	92.55	23	eP	54	12.00	-1.0	GRF	148.15	354	ePKP	00	47.10	2.2X	SMF	151.36	4	ePKP	00	49.80	-0.1
	0.9s	10.40nm			5.3mb			Z 20s	0.60um			5.4Msz			1.0s	12.00nm			
BDT	92.83	287	eP	54	17.00	1.8				ec	00	49.00		VOY	151.37	349	ePKPc	00	49.50	-0.5
	0.8s	43.60nm			5.9mb		ABH	148.19	359	ePKP	00	48.73	3.8X	BGF	151.38	5	ePKP	00	49.70	-0.2
CD2	93.01	301	eP	54	17.00	1.1	PSZ	148.19	343	ePKP	00	46.10	1.0		0.9s	16.40nm			
CHG	93.36	289	ePd	54	19.40	1.7	KHC	148.41	351	iPKPc	00	45.50	0.2	KHL	151.42	320	iPKP	00	56.90	6.6X
	0.8s	147.39nm			6.5mb					i	00	49.80		PPCY	151.46	311	ePKP	00	56.00	5.7X
CHTO	93.36	289	eP	54	19.10	1.4	BBTK	148.50	319	iPKPc	00	46.00	0.1	MBH	151.54	300	ePKP	00	50.50	-0.2
	0.8s	14.09nm			5.4mb		SHBJ	148.54	303	PKPc	00	50.49	4.3X	LSF	151.55	7	ePKP	00	49.80	-0.4
OLY	94.08	54	P	54	21.00	0.3	ZST	148.65	346	ePKP	00	45.60	-0.1	CEY	151.55	348	ePKP	00	49.00	-1.2
FFC	94.37	34	iPd	54	21.10	-0.5				i	00	49.50		TCF	151.58	6	ePKP	00	49.90	-0.3
	1.1s	29.00nm			5.6mb					i	00	53.70			1.0s	24.00nm			
LZH	94.61	306	eP	54	25.00	1.6	SRO	148.72	344	ePKP	00	45.60	-0.2	VBY	151.61	347	iPKPd	00	51.40	1.2
	1.3s	30.00nm			5.6mb					i	00	50.30		VVI	151.66	351	PKPd	00	59.10	8.8X
	Z 26s	0.80um			5.1MszX	VKA	148.76	347	ePKP	00	46.00	0.1	MAF	151.68	6	ePKP	00	50.50	0.1
FVM	95.67	52	P	54	27.80	-0.2		3.0s	604.00nm					RDO	151.69	329	ePKP	00	57.20	6.7X
GTA	98.66	309	eP	54	42.80	1.2				i	00	52.10		CTI	151.70	352	PKP	00	53.00	2.5X
	0.8s	10.00nm			5.4mb		BUD	148.83	343	e(PKP)	00	45.00	-1.0	TRI	151.71	349	ePKP	00	50.80	0.4
	Z 28s	2.20um			5.5MszX	DEV	149.01	337	ePKPd	00	52.00	5.7X				i	00	56.90	
	E 22s	1.70um				LDF	149.03	8	ePKP	00	45.80	-0.5	RIY	151.94	348	ePKP	00	52.20	1.5
LPB	99.03	111	eP	55	03.00	18.9X		1.0s	30.00nm					PLDF	152.02	4	PKP	00	58.15	7.2X
CNCB	99.03	111	P	54	46.00	1.7	GRR	149.12	9	ePKP	00	46.20	-0.2	ELL	152.13	317	iPKP	00	58.50	7.0X
ZOBO	99.10	110	P	54	46.00	1.4	LPF	149.44	10	ePKP	00	46.50	-0.4	VAI	152.15	356	PKP	00	54.50	3.5X
	Z 24s	0.23um			4.6MszX	BHL	149.45	307	PKP	00	50.00	2.5X	MDI	152.17	355	PKP	00	57.00	6.0X
			LR	08	00.00		STR	149.48	358	PKP	00	49.12	2.2X	PYM	152.19	5	PKP	00	52.16	0.9
MBC	99.51	11	ePd	54	44.40	-0.1	CSTJ	149.65	301	PKPc	00	49.36	1.5	EZN	152.26	326	iPKP	00	57.60	6.3X
	1.0s	13.00nm			5.4mb		FUR	149.66	354	ePKP	00	52.50	5.2X	SAL	152.27	354	PKP	01	00.00	8.8X
FRB	112.65	28	ePKP	59	38.00	-0.4		1.0s	159.00nm					ORO	152.43	358	PKP	00	54.70	3.1X
OUE	123.98	295	ePKP	00	02.10	0.5	WLS	149.66	359	PKP	00	48.98	1.7	RJF	152.48	7	ePKP	00	51.60	0.1
PDCR	125.78	121	ePKP	00	03.70	-1.5	CDF	149.66	359	PKP	00	48.92	1.6		1.1s	29.30nm			
SOB1	126.03	116	ePKP	00	07.30	1.6	BZS	149.70	339	ePKP	00	50.00	2.7X		Z 22s	1.52um			5.8Msz
KEV	126.73	351	ePKP	00	05.00	-0.4	GPA	149.70	322	iPKP	00	53.40	5.8X	LPL	152.57	360	ePKP	00	52.40	0.5
	0.9s	32.10nm				MDSJ	149.82	302	PKPc	00	50.49	2.4X			0.8s	6.70nm			
SOD	128.97	350	iPKP	00	09.30	-0.4	SHMJ	149.82	305	PKPc	00	49.79	1.8	LPG	152.59	359	ePKP	00	52.50	0.4
MAIO	130.00	303	ePKP	00	11.00	-1.8	JARJ	149.86	304	PKPc	00	49.06	0.9		0.8s	8.75nm			
KAF	133.78	347	iPKP	00	17.90	-1.1	ECH	149.86	359	PKP	00	49.27	1.7	PRK	152.70	325	ePKP	00	59.70	7.7X
	0.6s	14.60nm				VITF	149.87	1	PKP	00	49.49	2.0	KSL	152.71	316	ePKP	00	59.40	7.3X
NUR	135.58	347	ePKP	00	22.20	-0.2	GBZT	149.87	324	ePKP	00	48.20	0.4	IZM	152.72	322	ePKP	00	52.00	-0.1
BUL	136.27	211	ePKP	00	27.30	2.1X	BHG	149.89	351	iPKPc	00	52.40	4.8X	LBL	152.73	5	PKP	00	53.75	2.0
NB2	136.88	357	PKP	00	17.20	-7.8X		1.0s	77.00nm					LFF	152.73	9	ePKP	00	52.20	0.3
	1.1s	17.10nm				BURJ	149.97	304	PKPc	00	49.76	1.4	SSB	152.76	3	PKP	00	52.63	0.7
HFS	137.60	355	ePKP	00	14.10	-12.2X	YLV	150.06	323	iPKP	00	53.70	5.5X	SKO	152.88	335	ePKP	00	52.50	0.3
	1.1s	11.20nm				DMK	150.07	327	iPKP	00	53.00	4.9X			1.0s	64.00nm			
KRI	138.53	215	ePKP	00	13.00	-16.5X	HAU	150.08	0	ePKP	00	47.60	-0.3				e	00	59.80	
LSZ	140.57	214	ePKP	00	29.00	-4.2X	GHZJ	150.10	300	PKPc	00	49.31	0.7				i	01	11.70	
			i	01	08.50		QTRJ	150.13	302	PKPc	00	54.22	5.6X	CAF	152.91	7	ePKP	00	51.80	-0.4
KMZ	143.33	213	iPKP	00	38.50	0.5	SALJ	150.14	303	PKPc	00	49.49	0.9	VAY	152.94	333	ePKP	00	52.00	-0.3
			i	00	47.50		LWI	150.15	230	iPKPc	00	55.40	6.1X	BNI	153.03	360	PKPd	00	56.00	3.5X
NAI	144.48	241	iPKPd	00	41.00	0.8	FEL	150.18	358	PKP	00	49.08	0.9	BOB	153.20	355	PKP	01	02.60	10.0X
OASM	144.76	290	ePKP	00	40.30	0.2	MASJ	150.22	303	PKPc	00	49.39	0.7	PLG	153.30	330	ePKP	01	00.00	7.1X
WIT	145.27	360	ePKP	00	41.00	1.0	BSF	150.25	359	PKP	00	50.18	1.9	SMG	153.44	322	ePKP	01	01.50	8.5X
			e	01	11.50		MKRJ	150.34	303	PKPc	00	54.21	5.3X	ARG	153.60	318	ePKP	01	01.80	8.4X
ABHA	145.50	276	ePKP	00	44.50	2.7X	KBA	150.45	350	iPKPd	00	48.40	-0.3	CKI	153.61	357	PKP	01	03.00	9.9X
WTS	146.08	360	ePKP	00	42.00	0.6		1.1s	70.10nm					SFI	153.76	351	PKPd	00	56.30	3.0X
	1.0s	436.00nm							i	00	54.20		BDI	153.79	353	PKP	00	56.00	2.5X
IAS	146.10	334	ePKP	00	41.00	-0.6			i	01	01.60		OHR	153.87	335	ePKP	00	48.50	-5.2X

10d 04h

	1.1s	109.00nm				
		e	00	53.70		
		i	01	01.60		
ARV	153.99	349	PKPd	00	56.40	2.7X
CRE	154.03	351	PKP	00	57.00	3.1X
SBF	154.21	358	ePKP	00	53.80	-0.3
	0.9s	18.00nm				
CDR	154.41	1	ePKPc	01	04.10	9.9X
		i		01	17.70	
ASS	154.46	349	PKP	00	58.00	3.6X
FRF	154.52	360	ePKP	00	54.40	0.0
EPF	154.53	10	ePKP	00	55.00	0.5
	1.0s	15.00nm				
LRG	154.63	0	ePKP	00	54.80	0.3
	0.9s	11.45nm				
	Z 21s	0.88um			5.6Msz	
LMR	154.75	360	ePKP	00	54.60	0.0
MNS	155.12	349	PKP	00	55.50	0.3
EVR	155.23	330	ePKP	01	05.00	9.4X
DUI	155.44	345	PKP	00	59.50	3.7X
PGF	155.44	355	ePKP	00	55.20	-0.6
SDI	155.54	347	PKPd	00	57.90	2.0
GUD	155.67	20	ePKP	00	59.60	3.4X
NPS	155.79	319	ePKP	01	07.10	10.7X
SGO	156.25	343	PKP	00	59.90	3.1X
ORI	156.37	341	PKP	01	02.00	5.0X
TDS	156.77	340	PKP	01	00.50	3.0X
EVIA	158.02	19	e(PKP)	01	02.00	2.8X
AVE	160.36	37	iPKP	01	04.50	2.7X
		i		01	43.50	
IFR	161.41	32	iPKPc	01	06.50	3.4X
		i		01	48.00	
BCAO	162.04	223	iPKPd	01	04.80	0.8
	0.6s	14.00nm				
		id		01	52.10	
TIO	162.13	41	iPKPd	01	06.50	2.7X
LIC	163.82	135	PKP	01	05.84	0.1
	1.1s	25.50nm				
	Z 21s	0.81um				
KIC	164.11	135	PKP	01	06.16	0.1
	1.0s	22.50nm				
TIC	164.13	134	PKP	01	06.10	0.0
WEGH	166.02	151	ePKP	01	08.50	0.8
SHGH	166.44	152	ePKP	01	09.00	1.0
LOGH	166.49	150	ePKP	01	08.00	-0.1
	S.D. = 1.0	on 217 of 308 obs.				

& JAN 10, 1991 05h 54m 00.52s
59.882 N 153.414 W
DEPTH = 139.7km
SOUTHERN ALASKA (2)
<AEIC>.

OPT	0.25	158	eP	54	19.23	0.9
			eS	54	32.94	
INE	0.25	44	iP	54	19.14	0.6
			eS	54	34.18	
PDB	0.40	257	iP	54	19.40	-1.1
			eS	54	33.89	
AUH	0.52	182	eP	54	20.24	-0.9
AUP	0.52	180	eP	54	20.32	-0.8
AUE	0.53	178	iP	54	20.20	-0.8
AUI	0.55	181	eP	54	20.27	-0.9
RED	0.63	31	iP	54	20.90	-0.9
RS2	0.67	29	iP	54	21.39	-0.8
RSO	0.67	29	iP	54	21.36	-0.9
REF	0.71	30	iP	54	21.60	-0.9
RDN	0.71	27	iP	54	21.67	-0.8
NCT	0.72	19	iP	54	21.70	-0.8
			eS	54	37.58	
MCNL	0.84	214	iP	54	22.06	-1.2
RDT	0.86	35	iP	54	22.56	-0.9
HOM	0.92	103	iP	54	23.20	-0.7
			eS	54	39.71	
XLV	0.96	116	eP	54	22.90	-1.3
NNL	1.08	81	iP	54	25.37	0.1
CNPM	1.16	107	iP	54	24.98	-1.2
			eS	54	43.40	
BRLK	1.28	94	iP	54	26.22	-1.2
SYI	1.38	157	iP	54	26.79	-1.5
			eS	54	46.85	
NKA	1.39	50	iP	54	29.09	0.7
CKL	1.42	21	iP	54	28.28	-0.7
			eS	54	49.68	
SPU	1.47	27	iP	54	28.38	-1.0
BGL	1.48	20	iP	54	29.02	-0.5
CRP	1.52	24	eP	54	29.02	-1.1
CGLM	1.59	25	eP	54	29.83	-0.9
NCG	1.65	22	iP	54	31.23	-0.2
SLKM	1.71	67	eP	54	30.68	-1.4
SEW	2.00	82	eP	54	33.90	-1.6
SUA	2.06	38	eP	54	35.51	-0.8
SKT	2.30	23	eP	54	37.99	-1.1
PMS	2.34	53	eP	54	38.15	-1.6
			eS	55	06.91	
PLRM	2.71	49	eP	54	43.01	-1.3
LTI	2.80	84	iP	54	43.96	-1.5
KNIM	2.88	78	eP	54	44.03	-2.5
KNK	2.88	56	eP	54	44.09	-2.5
MTU	2.90	85	eP	54	45.30	-1.5
GHO	2.90	47	eP	54	45.74	-1.2
CUT	2.96	30	eP	54	45.48	-2.0
GLI	3.29	70	eP	54	49.13	-2.8
VZW	3.60	68	eP	54	53.36	-2.6
VLZ	3.72	67	eP	54	54.90	-2.6
KLU	4.02	63	eP	54	58.60	-3.0
RND	4.15	30	eP	55	00.78	-2.6
TOA	4.17	55	eP	55	01.80	-1.8
GLB	4.98	68	eP	55	11.71	-2.7
CCB	5.45	26	eP	55	17.57	-3.1
BALM	5.60	73	eP	55	20.37	-2.4
MDM	5.63	23	eP	55	20.11	-3.1
FBA	5.67	25	eP	55	20.26	-3.4
	51 obs. associated					

• JAN 10, 1991 06h 05m 43.02± 1.14s
50.278 N ±17.4km 18.952 E ± 6.7km
DEPTH = 10.0km (geophysicist)
POLAND (548)
ML 3.2 (KRA).

RAC	0.52	248	eP	05	54.00	0.4
			i	05	57.00	
			i	05	59.50	
			i	06	02.50	
KRA	0.67	109	ePgd	05	56.50	0.1
			iSg	06	06.40	
SPC	1.38	142	iPn	06	08.30	-0.1
	0.6s	0.20nm				
			iSg	06	27.70	
KSP	1.79	289	ePn	06	14.20	0.1
	0.7s	95.00nm				
			iPg	06	16.90	
			iSg	06	40.40	
ZST	2.41	211	eP	06	30.10	7.0X
			e	33	56.50	
PSZ	2.44	165	eP	06	30.90	7.3X
SRO	2.50	190	eP	06	41.30	16.9X
			i	07	27.60	
			e	07	55.30	
PRU	2.85	266	eP	06	35.00	5.6X
			Pg	06	37.00	
			Sg	07	12.50	
BRG	3.25	283	ePg	06	43.00	8.0X
			eSg	07	26.00	
KHC	3.67	254	Pn	06	40.60	-0.5
			Pg	06	47.50	
			eSn	07	27.50	
			Sg	07	38.40	
	S.D. = 0.4	on 5 of 10 obs.				

JAN 10, 1991 07h 06m 26.20± 0.33s
5.114 N ± 5.5km 31.822 E ± 6.4km
DEPTH = 11.4km (5 depth phases)
5.2mb (32 obs.) 4.6Msz (7 obs.)
SUDAN (557)
mbLg 4.9 (BUL).

LWI	7.90	203	iP-	08	22.60	-1.4
NAI	8.06	142	iPc	08	25.50	-0.7
			iS	10	42.00	
BCAO	13.26	268	iPc	09	32.80	-4.2X
	0.5s	16.00nm			5.4mb	
			iS	11	55.00	
			Lg	13	12.60	
NPA	21.38	160	iP	11	23.50	7.5X
	1.0s	110.00nm			5.2mb	
			e	15	44.00	
			e	16	32.00	
			eLg	17	37.40	
KRI	21.91	186	eP	11	22.60	1.1
			eSn	15	16.50	
			eLg	17	43.00	
MBH	24.69	6	eP	11	54.00	5.4X
BUL	25.30	187	iPc	11	59.30	4.8X
			iLg	19	32.10	
GLH	27.69	7	eP	12	21.50	5.2X
KSR	31.16	189	iPc	12	47.50	-0.1
			S	17	20.00	
SHI	31.27	36	eP	12	48.00	-0.6
BLF	34.45	189	eP	13	16.50	0.3
KIC	36.40	274	P	13	33.32	0.5
	1.6s	69.00nm				5.2mb
GIB	36.52	336	P	13	39.00	5.4X
TIC	36.67	274	P	13	35.40	0.3
LIC	36.68	274	P	13	35.74	0.6
	Z 20s	0.61um				4.4Msz
VAY	36.99	348	eP	13	37.70	0.3
TDS	37.13	340	P	13	45.00	6.4X
OHR	37.18	346	eP	13	39.80	0.7
LCI	37.22	342	P	13	44.00	4.7X
SKO	37.85	347	eP	13	45.00	0.3
BRT	37.95	342	P	13	48.00	2.5
SGO	38.28	340	P	13	49.00	0.7
MAIO	40.11	36	eP	14	04.00	0.3
			e	20	24.00	
AZI	40.21	339	P	14	11.20	6.9X
MLR	40.54	354	eP	14	10.00	2.8X
BEO	40.78	348	eP	14	12.00	3.0X
MNS	40.83	338	P	14	12.00	2.5
VRI	40.84	355	eP	14	12.00	2.6
OUE	41.44	49	eP	14	17.90	3.1X
VBY	42.75	343	eP	14	29.00	3.9X
POO	43.12	68	eP	14	32.00	3.5X
CEY	43.21	342	eP	14	31.90	3.0X
TRI	43.38	342	P	14	30.00	-0.2
VOY	43.63	342	eP	14	31.50	-0.9
SRO	44.09	347	eP	14	36.90	1.0
			e	14	43.30	21km
LMR	44.15	333	eP	14	36.20	-0.2
	1.4s	43.55nm				5.1mb
FRF	44.26	334	eP	14	37.10	-0.3
	1.4s	74.05nm				5.3mb
LRG	44.31	333	eP	14	37.50	-0.3
	Z 21s	0.65um				4.5Msz
CTI	44.38	340	P	14	42.00	3.5X
IFR	44.46	314	iP	14	41.00	1.6
FVI	44.48	341	P	14	44.00	4.9X
ZST	44.73	346	e(P)	14	41.10	-0.1
			i	14	43.70	9km
TIO	44.79	310	iP	14	42.60	0.5
SPC	45.01	349	eP	14	42.10	-1.5
BNI	45.44	335	P	14	49.80	2.7X
ECOG	45.48	320	eP	14	49.50	2.1
EVIA	45.63	322	eP	14	51.90	3.3X
LPG	45.77	335	eP	14	48.60	-1.2
	1.2s	38.70nm				5.3mb
LPL	45.79	335	eP	14	48.60	-1.3
	1.0s	22.00nm				5.1mb
KRA	45.89	349	eP	14	49.90	-0.4
	0.8s	33.00nm				5.4mb
			e	14	52.70	9km
KHC	46.52	344	iPd	14	55.40	0.1
	1.2s	24.00nm				5.1mb
			e	16	49.20	658kmX
HY8	47.30	71	eP	15	03.50	1.5
KSP	47.40	347	eP	15	01.00	-1.2
			e	15	04.30	11km
BSF	47.66	337	eP	15	03.20	-1.3
	1.4s	43.55nm				5.3mb
GRF	47.71	342	eP	15	01.70	-3.1X
	Z 18s	0.30um				4.3Msz
			e	15	03.70	7km
EVAL	47.74	318	eP	15	06.00	0.9
GUD	47.87	323	eP	15	09.00	2.7X
SMF	47.92	334	eP	15	05.50	-0.9
	1.0s	36.00nm				5.4mb
CDF	47.96	338	eP	15	05.30	-1.5
	1.0s	14.00nm				5.0mb
HAU	47.97	337	eP	15	05.60	-1.2
BRG	48.00	345	eP	15	06.70	-0.3
			e	16	30.50	423kmX
LBF	48.12	335	eP	15	06.90	-1.1
	1.1s	22.00nm				5.1mb
MAF	48.16	333	eP	15	08.10	-0.2
	1.1s	29.30nm				5.3mb
AVF	48.24	334	eP	15	08.10	-0.8
	1.0s	22.00nm				5.2mb
BGF	48.29	333	eP	15	08.60	-0.7
	1.1s	25.65nm				5.2mb
TCF	48.37	333	eP	15	09.90	0.0

	1.2s	61.00nm			5.5mb	
SSF	48.38	334	eP	15	09.00	-1.0
	1.2s	23.80nm			5.1mb	
LOR	48.39	335	eP	15	09.00	-1.1
	1.0s	24.00nm			5.2mb	
	Z 22s	0.55um			4.5Msz	
MOX	48.44	343	eP	15	13.00	2.6X
	1.6s	37.00nm			5.2mb	
CLL	48.65	344	eP	15	13.00	1.1
			i	15	44.50	137kmX
LSF	48.65	332	eP	15	11.80	-0.3
EPLA	48.70	321	eP	15	12.70	0.1
LDF	51.14	333	eP	15	29.70	-1.4
	1.4s	87.15nm			5.5mb	
GKN	54.99	59	P	15	58.94	-1.4
	1.2s	103.00nm			5.7mb	
DMN	55.30	60	P	16	01.68	-1.0
KKN	55.49	60	P	16	03.06	-0.9
	1.3s	122.00nm			5.8mb	
PKI	55.55	60	P	16	03.24	-1.3
GUN	56.04	60	P	16	06.70	-1.4
	1.3s	169.00nm			5.9mb	
HFS	56.60	349	ePKP	16	11.80	0.6
	0.8s	4.50nm			4.6mb	
KAF	57.02	357	eP	16	13.20	-0.9
NB2	57.92	348	P	16	19.10	-1.4
	0.9s	14.90nm			5.0mb	
WMO	62.25	43	iPd	16	52.00	1.4
	1.3s	30.00nm			5.3mb	
	Z 22s	0.50um			4.6Msz	
SOD	62.26	358	eP	16	51.00	1.0
KEV	64.63	358	eP	17	07.00	1.4
CHTO	66.72	72	eP	17	20.20	0.3
	1.3s	14.30nm			5.0mb	
GTA	69.81	50	eP	17	40.80	1.8
	1.4s	50.00nm			5.5mb	
	Z 16s	0.40um			4.8MszX	
LZH	72.49	54	Pc	17	57.00	1.7
	1.5s	34.00nm			5.2mb	
	Z 20s	0.49um			4.8Msz	
GYA	74.17	64	P	18	06.00	0.8
XAN	76.47	56	P	18	19.20	1.1
DAG	76.60	349	iPd	18	15.80	-2.2
	1.1s	12.66nm			4.9mb	
BTO	77.73	50	eP	18	28.00	3.0X
HHC	78.92	50	P	18	34.80	3.2X
TIY	79.47	53	eP	18	38.20	3.6X
	Z 20s	0.60um			4.9Msz	
WHN	81.00	60	eP	18	47.80	5.1X
BJI	82.42	50	eP	18	53.50	3.6X
	1.5s	39.00nm			5.3mb	
FRB	90.02	334	eP	19	28.00	1.1
YKA	107.87	344	ePKP	25	15.50	20.5X
	0.5s	0.20nm				

S.D. = 1.2 on 69 of 97 obs.

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* JAN 10, 1991 08h 02m 36.15± 3.74s
33.079 S ±22.6km 70.301 W ±12.4km
DEPTH = 125.2 ± 39.1 km
CHILE-ARGENTINA BORDER REGION (127)

SAN	0.48	219	iPc	02	54.70	-0.1
			iS	03	07.60	
PCH	0.57	198	iPc	02	55.70	0.2
			iS	03	09.20	
ROCH	0.61	280	iPc	02	55.80	-0.1
			iS	03	09.50	
TACH	0.78	223	iPc	02	56.90	-0.1
			iS	03	11.90	
LCCH	1.13	249	iPc	03	00.50	0.3
			iS	03	18.00	
MDZ	1.24	81	eP	03	01.40	0.0
			iS	03	20.10	
LNV	1.27	226	iPc	03	01.50	-0.2
			iS	03	20.00	

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

? JAN 10, 1991 08h 46m 47.23± 4.87s
44.027 N ±36.9km 7.320 E ±15.5km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.3 (LDG).

SBF	0.18	153	Pg	46	51.40	0.0
			Sg	46	56.60	
FRF	0.67	227	Pg	47	00.80	0.2
			Sg	47	14.00	
LRG	0.90	231	Pg	47	04.80	0.3
			Sg	47	21.20	
LMR	0.91	221	Pg	47	04.20	-0.4
			Sg	47	20.40	
CDR	1.18	253	eP	47	09.10	-0.1
			e	47	26.50	

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

% JAN 10, 1991 10h 11m 51.80± 0.91s
39.129 N ± 8.2km 27.610 E ±15.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

IZM	0.78	201	ePg	12	07.00	0.0
DST	0.92	59	ePn	12	09.50	0.1
EDC	1.23	9	ePn	12	14.50	-0.2
BNT	1.25	11	iPn	12	15.30	0.3
KCT	1.26	27	ePn	12	15.00	-0.2

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

% JAN 10, 1991 10h 20m 51.04± 4.32s
3.847 N ±14.5km 76.235 W ±17.9km
DEPTH = 94.4 ± 40.3 km
COLOMBIA (103)
MD 3.1 (UVC).

BUGC	0.05	335	ePc	21	05.44	-0.4
CLMC	0.33	276	iPc	21	06.05	0.5
			eS	21	18.70	
HOBC	0.51	11	eP	21	06.70	0.0
			eS	21	19.80	
HOOC	0.55	227	iPc	21	07.04	-0.1
DIAC	0.55	176	iPc	21	07.28	0.2
			eS	21	20.70	
ANCC	0.71	242	ePc	21	08.22	-0.1
SALC	0.98	208	ePc	21	11.10	-0.2
			eS	21	27.20	
SILC	1.16	185	ePc	21	13.70	0.1
			eS	21	31.80	

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

? JAN 10, 1991 10h 39m 40.63± 1.98s
40.845 N ±17.2km 29.589 E ± 9.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

HRT	0.06	111	iPg	39	43.00	0.0
GBZT	0.12	243	ePg	39	43.60	-0.1
			iSg	39	46.00	
YLV	0.32	211	iPg	39	47.50	0.1
			iSg	39	52.50	
IZI	0.52	190	ePg	39	51.00	-0.1

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

% JAN 10, 1991 11h 21m 52.32± 0.97s
41.263 N ±12.9km 14.623 E ±14.1km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

DUI	0.42	343	P	22	00.00	-0.9
SDI	0.75	306	P	22	07.40	0.3
			eSg	22	21.30	
SGO	0.87	143	P	22	08.50	-0.6
AZI	1.15	310	P	22	15.00	1.2X
ORI	1.83	130	P	22	21.00	-3.1X
MNS	1.83	308	P	22	19.00	-5.2X
BRT	1.99	100	P	22	27.00	0.6
ARV	2.56	331	P	22	35.00	0.5

S.D. = 1.0 on 5 of 8 obs.

% JAN 10, 1991 11h 58m 44.74± 0.59s
40.200 N ± 6.7km 28.784 E ± 4.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

KCT	0.33	279	iPg	58	52.50	0.9
			iSg	59	06.00	
IZI	0.54	75	iPg	58	56.00	0.2
			iSg	59	04.00	
YLV	0.58	51	iPg	58	56.00	-0.6
			iSg	59	05.00	
DST	0.61	191	iPg	58	57.00	0.0
BNT	0.68	284	iPg	58	58.00	-0.2
EDC	0.72	282	ePg	58	58.00	-0.9
ISK	0.89	14	iPg	59	02.00	0.2
HRT	0.92	47	iPn	59	02.50	0.2
KGT	1.16	283	iPn	59	06.50	0.1

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

JAN 10, 1991 13h 07m 24.40± 0.83s
4.804 S ± 5.3km 76.506 W ±12.5km
DEPTH = 40.8 ± 10.7 km
4.4mb (4 obs.)
NORTHERN PERU (111)

VC1	4.55	335	P	08	32.00	-1.2
CAYA	5.07	343	eP	08	38.80	-1.7
PURC	7.08	1	eP	09	09.60	0.9
NNA	7.14	183	iPd	09	09.50	0.3
	0.5s	8.45nm			4.9mb	
			eS	10	25.50	
PT10	7.24	184	eP	09	10.00	-0.5
			eS	10	30.00	
SALC	7.73	359	eP	09	18.50	1.0
HOOC	8.22	359	eP	09	25.00	0.6
ANCC	8.27	357	eP	09	26.50	1.6
CLMC	8.63	360	eP	09	30.50	0.6
HOBC	9.11	2	eP	09	37.00	0.5
ZOBO	14.05	145	P	10	42.00	-1.6
LPB	14.28	145	P	11	02.00	15.6X
CNCB	14.57	146	eP	10	52.00	1.7
SDV	14.81	23	eP	10	50.80	-2.3
TOV	15.96	25	eP	11	06.70	-1.2
SIV	18.80	127	P	11	43.30	0.1
ALO	48.55	327	eP	16	05.80	-0.2
	0.9s	3.15nm			4.3mb	
LIC	72.20	82	P	18	47.80	0.0
TIC	72.25	81	P	18	48.20	0.1
KIC	72.49	82	P	18	49.70	0.2
YKA	73.12	343	eP	18	51.00	-1.2
	0.4s	0.60nm			3.9mb	
INK	82.85	342	eP	19	45.50	-0.1
MBC	84.60	351	eP	19	56.00	1.6
	0.5s	2.00nm			4.5mb	
GKN	150.78	36	PKP	27	15.64	6.6X
KKN	151.31	35	PKP	27	16.88	7.0X
	0.7s	14.00nm				
DMN	151.35	36	PKP	27	16.98	6.9X
	0.5s	7.00nm				
PKI	151.55	35	PKP	27	17.22	6.8X
	0.6s	5.00nm				
GUN	151.56	34	PKP	27	17.76	7.3X

S.D. = 1.2 on 22 of 28 obs.

? JAN 10, 1991 13h 35m 50.02± 2.80s
37.194 N ±26.2km 3.626 W ±10.6km
DEPTH = 10.0km (geophysicist)
SPAIN (377)
mbLg 2.2 (MDD).

AFC	0.09	47	iPgc	35	52.60	-0.1
			eSg	35	55.00	
ECOG	0.10	30	ePg	35	52.00	-0.8
			eSg	35	55.00	
EBAN	0.98	353	ePg	36	08.50	-0.1
			eSg	36	21.00	
EHOR	1.43	296	ePn	36	16.00	0.0
			eSn	36	33.00	
EVIA	1.69	31	ePn	36	20.50	0.7
			eSn	36	43.00	

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

JAN 10, 1991 13h 47m 02.99± 0.47s
47.704 N ± 6.1km 16.133 E ± 4.4km
DEPTH = 10.0km (geophysicist)
AUSTRIA (546)
ML 3.5 (VIE), 3.4 (KBA), 3.2 (VKA), 3.1 (BRA). Felt (V) ot Ternitz.

VKA	0.57	12	iPgd	47	14.40	-0.2
			ic	47	14.70	
			iSg	47	23.80	
ZST	0.82	53	iPg	47	18.50	-0.3
			i	47	22.20	
			iSg	47	32.40	
KMR	1.39	285	iPgc	47	27.20	-1.2
			iSg	47	45.80	
SRO	1.47	85	iPn	47	31.40	1.8
	0.4s	0.15nm				
			i	47	50.30	
			i(Sn)	47	52.70	

10d 13h

BUD	1.97	95	e(Pn)	47	36.00	-0.7	INK	36.15	36	iPc	04	17.70	1.2		0.8s	19.00nm		5.1mb					
LJU	1.99	214	e(Pn)	47	37.50	0.4		0.6s	64.00nm			5.7mb		CBM	74.44	30	P	08	50.00	-1.6			
			e	47	39.10					pP	05	44.00	457kmX	OLY	74.52	52	P	08	51.50	-0.9			
			e(Sn)	48	05.00		SIT	38.25	55	eP	04	36.70	2.4	MLR	74.63	327	ePc	08	56.00	3.0X			
KBA	2.00	253	iPnc	47	36.60	-0.7	MBC	39.14	22	iPc	04	43.00	1.5	ZST	74.96	334	iP	08	54.80	0.2			
			iPg	47	38.70			0.5s	16.00nm			5.2mb		SRO	74.96	333	iP	08	53.90	-0.7			
			i	48	02.70		GYA	45.46	256	P	05	37.00	3.4X	KHC	75.03	336	iP	08	55.00	-0.1			
			iSg	48	05.10		YKA	45.47	41	eP	05	33.50	0.4		1.0s	35.00nm		5.2mb					
BHG	2.20	272	iPnd	47	41.00	0.9		0.8s	28.20nm			5.2mb		GRF	75.08	338	ePc	08	55.60	0.2			
KHC	2.22	311	iPn	47	40.50	0.1	WMQ	45.85	289	Pc	05	36.50	0.1		0.9s	101.00nm		5.8mb					
			e	48	02.50		PNT	50.24	58	eP	06	11.00	0.6	CMP	75.14	327	ePc	08	57.00	1.3			
			Sg	48	08.10			0.9s	16.00nm			5.0mb		ENN	75.21	342	iPc	08	55.90	-0.1			
VOY	2.27	223	ePn	47	41.10	-0.1	EDM	51.09	51	iPc	06	16.80	0.0		0.9s	99.00nm		5.7mb					
			e	47	45.00		NEW	52.19	57	P	06	25.00	-0.2	ETA	75.21	350	iPd	08	56.10	0.1			
			eSn	48	15.40			0.9s	12.28nm			4.9mb		ABH	75.72	340	eP	08	58.48	-0.5			
V8Y	2.28	196	ePn	47	54.00	12.7X	KEV	53.73	341	eP	06	41.00	4.9X	KOD	75.72	268	eP	09	00.20	0.3			
			iSn	48	18.50		SES	53.96	52	ePc	06	38.00	-0.2	ECP	75.74	350	iPd	08	59.30	0.4			
CEY	2.29	211	ePn	47	45.00	3.6X	FFC	55.34	44	eP	06	48.00	-0.2	FUR	76.49	337	eP	09	03.20	-0.2			
PRU	2.52	336	Pn	47	45.20	0.6		0.9s	39.00nm			5.4mb			1.0s	82.00nm		5.6mb					
			e	47	46.00		SOD	55.75	339	iP	06	49.00	-2.0	BHG	76.51	336	iPc	09	03.60	0.1			
FVI	2.54	245	P	47	46.00	1.1	CHG	55.88	257	eP	06	57.30	4.8X		1.0s	51.00nm		5.4mb					
			eSn	48	24.60			0.9s	11.55nm			4.9mb		GWF	76.56	340	P	09	03.33	-0.4			
PSZ	2.54	84	eP	47	55.70	10.7X	CHTO	55.88	257	eP	06	53.00	0.5	KBA	76.99	336	iPc	09	06.60	0.3			
TRI	2.58	220	eP	47	50.40	5.0X		0.9s	12.15nm			4.9mb			0.9s	157.00nm		6.0mb					
			e	48	22.10					pP	07	22.90	126kmX	WLS	77.15	340	P	09	06.45	-0.6			
SPC	3.11	60	eP	48	46.70	53.5X	GUN	57.32	275	P	07	01.82	-1.2	CDF	77.17	340	P	09	06.73	-0.5			
KSP	3.14	2	ePn	47	54.00	0.5		0.4s	16.00nm			5.5mb		WATA	77.20	337	iPc	09	07.30	-0.1			
	0.8s	70.00nm					KKN	57.78	275	P	07	05.40	-0.7	ECH	77.38	340	P	09	07.68	-0.6			
			iPg	48	00.00			0.5s	13.00nm			5.3mb		SOTA	77.39	337	iPc	09	08.70	0.2			
			iSn	48	35.50		PKI	57.85	275	P	07	05.90	-0.9		0.9s	94.50nm		5.7mb					
			iSg	48	41.70			0.5s	12.00nm			5.3mb		SLE	77.52	339	ePc	09	08.40	-0.6			
FUR	3.30	280	iPd	48	03.60	7.9X	DMN	58.01	275	P	07	07.10	-0.7	FEL	77.52	339	P	09	08.56	-0.6			
SOTA	3.38	264	i(Pn)	47	56.40	-0.5	GKN	58.03	276	P	07	06.46	-1.3	FVI	77.59	336	P	09	11.00	1.7			
			i(Pg)	48	05.80		TNP	58.78	67	P	07	12.60	-0.4	VITF	77.63	341	P	09	09.44	-0.1			
			iSn	48	30.10			0.5s	2.46nm			4.6mb		LJU	77.63	334	e(P)	09	09.00	-0.6			
			iSg	48	47.10		FRB	59.60	22	ePc	07	17.10	-0.9	ASPA	77.65	202	iPd	09	10.30	0.4			
BRG	3.48	337	e(Pg)	48	07.00	8.8X		0.5s	30.00nm			5.7mb			0.5s	14.70nm		5.2mb					
			iSn	48	35.00		8W06	59.79	58	P	07	19.80	-0.2	MOF	77.73	340	P	09	09.70	-0.6			
			iSg	48	51.00			0.8s	11.31nm			5.1mb		HAU	77.75	340	iPc	09	09.70	-0.6			
CTI	3.49	243	P	48	05.00	6.5X	DAU	60.52	61	P	07	25.00	0.0		0.8s	64.50nm		5.6mb					
			eSn	48	50.00		NUR	62.00	336	iP	07	33.00	-1.3	OGA	77.77	337	iPc	09	11.00	0.4			
GRF	3.81	303	ePn	48	02.60	-0.4		0.7s	18.70nm			5.3mb			0.8s	50.00nm		5.5mb					
			ePg	48	10.50		PV09	63.03	61	P	07	41.90	0.0	SAX	77.81	338	ePc	09	10.80	-0.1			
			e(Sg)	49	00.00		GOL	64.20	58	P	07	47.00	-2.4	ZLA	77.81	339	ePc	09	10.60	0.0			
HOF	3.83	315	iPnc	48	11.90	8.6X	GLD	64.24	58	P	07	50.00	0.4	VOY	77.82	335	iPc	09	09.50	-1.3			
CLL	4.15	332	e(Pg)	48	43.00	35.4X		0.9s	27.37nm			5.2mb		BSF	77.82	340	P	09	10.19	-0.6			
			eSg	49	11.00		NB2	64.53	342	P	07	49.40	-1.6	VBY	77.93	334	ePc	09	10.80	-0.5			
MOX	4.18	316	e(P)	48	21.00	12.9X		0.3s	11.80nm			5.3mb		BBS	78.02	340	P	09	11.41	-0.4			
			iSg	49	11.00		HFS	64.87	341	eP	07	51.00	-2.1	VTS	78.12	327	iPd	09	12.00	-0.6			
MLR	7.11	105	eP	48	51.00	1.3		0.7s	36.40nm			5.4mb		TRI	78.15	335	P	09	13.50	1.1			
VRI	7.50	100	ePc	48	52.50	-2.5	ALQ	67.09	62	eP	08	07.00	-0.9	OSS	78.15	338	ePc	09	12.80	0.1			
			e	08	53.00			0.8s	3.73nm			4.4mb		LLS	78.25	338	ePc	09	13.20	-0.1			
S.D. = 1.1 on 17 of 28 obs.							QUE	67.19	290	eP	08	10.72	2.1	LOMF	78.27	340	P	09	13.02	-0.2			
----------							SCH	67.84	26	ePc	08	11.40	-0.7	FLN	78.28	345	iPc	09	12.70	-0.4			
JAN 10, 1991 13h 57m 19.82± 0.28s								0.4s	38.00nm			5.7mb			0.8s	83.95nm		5.7mb					
51.542 N ± 5.8km 157.278 E ± 4.3km							HYB	69.58	272	iP	08	22.60	-0.7	CTI	78.38	336	P	09	14.80	0.9			
DEPTH = 70.1km (2 depth phases)								1.0s	35.00nm			5.2mb		LDF	78.39	345	iPc	09	13.30	-0.4			
5.4mb (64 obs.)							POO	71.67	277	iPd	08	36.70	0.8		1.0s	110.00nm		5.8mb					
NEAR EAST COAST OF KAMCHATKA (218)							TUL	72.04	55	iPc	08	36.90	-1.0	VDL	78.50	338	ePc	09	14.90	0.2			
Felt (IV) at Severo-Kurilsk.								0.8s	12.50nm			4.9mb		GRR	78.71	345	iPc	09	15.20	-0.3			
										e	08	44.30	24kmX	MMB	78.83	326	iPd	09	16.00	-0.3			
KUSJ	11.99	230	P	00	09.30	-0.3	EKA	72.26	348	Pd	08	39.70	0.9	LOR	78.96	342	iPc	09	16.40	-0.5			
			S	02	09.90			0.8s	56.60nm			5.5mb			0.8s	104.95nm		5.8mb					
ASAJ	12.31	239	P	00	20.20	6.3X	KRA	72.48	333	ePd	08	39.40	-0.8	SAL	79.07	337	P	09	19.50	2.0			
HOOJ	13.22	232	P	00	25.60	-0.2		0.7s	30.00nm			5.3mb		LPF	79.08	345	iPc	09	17.50	0.0			
			S	02	39.80					e	08	56.60	63km		1.0s	146.00nm		5.9mb					
MRRJ	14.31	237	eP	00	40.80	0.8	KSP	72.76	335	iPd	08	41.00	-0.9	MDI	79.11	338	P	09	18.80	1.1			
			eS	03	07.80			1.1s	36.00nm			5.2mb		L8F	79.21	342	iPc	09	17.60	-0.7			
ADK	16.12	79	P	00	56.40	-6.7X	GAC	73.01	36	ePd	08	42.40	-0.9		0.6s	23.90nm		5.3mb					
OFUJ	16.56	227	eP	01	08.50	-0.3		0.6s	10.00nm			4.9mb		SSF	79.22	342	iPc	09	17.90	-0.4			
MDJ	19.67	260	eP	01	46.00	0.4	FVM	73.06	50	P	08	42.80	-1.0	VAI	79.24	338	P	09	20.10	1.7			
MAT	20.22	230	eP	01	53.00	1.6		0.6s	19.51nm			5.2mb		MMK	79.25	339	ePc	09	19.20	0.4			
	0.9s	12.60nm			4.2mb X		WIT	73.12	342	eP	08	45.00	1.1	SKO	79.26	328	iP	09	18.50	-0.1			
ANM	23.25	42	iPc	02	24.00	2.8X	CLL	73.16	337	iP	08	42.90	-1.2				i	10	02.50	180kmX			
TTA	27.08	47	iPc	02	58.10	0.8		1.3s	87.00nm			5.5mb		DIX	79.35	339	ePc	09	19.90	0.5			
	0.9s	23.70nm			4.7mb		GBA	73.16	271	P	08	44.20	-0.5	EMS	79.47	339	ePc	09	20.10	0.2			
SVW	27.23	51	ePc	03	00.00	1.3	SPC	73.17	332	eP	08	42.10	-2.4	VAY	79.47	327	iP	09	19.20	-0.5			
IMA	28.35	40	iPc	03	09.30	0.5	BRG	73.33	337	iP	08	44.40	-0.8		1.3s	85.00nm		5.5mb					
	0.7s	26.00nm			5.0mb			1.0s	30.00nm			5.2mb		AVF	79.51	342	iPc	09	19.60	-0.3			
KDC	29.14	58	eP	03	15.20	-0.6				e	09	05.00	77km	SMF	79.56	342	iPc	09	19.90	-0.3			
PMR	30.32	50	eP	03	26.50	0.2	WRA	73.96	202	P	08	48.00	-1.2	ORX	79.65	339	P	09	20.63	-0.2			
	0.8s	9.66nm			4.6mb			0.6s	18.10nm			5.2mb		HVAR	79.73	332	eP	09	18.60	-2.5			
FBA	30.74	43	iPc	03	30.70	0.8	PRU	74.00	336	Pc	08	48.50	-0.5	BGF	79.83	342	iPc	09	21.60	0.0			
	0.8s	60.20nm			5.4mb			1.0s	21.70nm			5.0mb		RSL	79.90	340	P	09	22.45	0.3			
TOA	31.66	48	ePc	03	39.20	1.0	MOX	74.10	338	iPc	08	49.00	-0.7	LSD	80.00	339	P	09	23.40	0.6			
KLU	31.86	50	P	03	40.00	0.1		1.0s	41.00nm			5.3mb		LPL	80.04	339	iPc	09	23.30	0.3			
TIY	34.22	264	eP	04	02.70	2.2	HOF	74.35	338	iPd	08	51.00	-0.1	LPG	80.05	339	iPc	09	23.50	0.3			

	0.9s	102.35nm			5.8mb	
BOB	80.12	337	Pc	09	25.70	2.4
RSM	80.15	335	P	09	26.40	3.1X
MAF	80.21	342	iPc	09	23.90	0.3
TCF	80.21	343	iPc	09	23.70	0.0
OHR	80.25	328	iP	09	23.00	-1.0
	1.4s	118.00nm			5.6mb	
			i	10	04.70	169kmX
PLDF	80.25	342	P	09	24.52	0.6
RSP	80.27	339	P	09	23.51	-0.6
SFI	80.31	335	P	09	31.00	6.9X
MFF	80.32	344	iPc	09	24.40	0.2
	1.0s	140.00nm			5.8mb	
MME	80.35	336	Pd	09	27.70	3.0X
LSF	80.37	343	iPc	09	24.50	0.0
ARV	80.42	335	P	09	26.90	2.1
BNI	80.49	339	P	09	28.00	2.7
BDI	80.50	336	P	09	26.80	1.5
PCP	80.55	338	P	09	24.84	-0.7
BHB	80.56	339	P	09	24.02	-1.5
CRE	80.56	335	P	09	27.90	2.3
PYM	80.58	342	P	09	26.06	0.4
RRL	80.59	339	P	09	26.48	0.5
FIR	80.60	336	eP	09	26.00	0.3
CKI	80.72	338	P	09	27.00	0.7
SSB	80.73	341	P	09	26.79	0.4
PII	80.84	336	P	09	28.10	1.2
DOI	80.88	339	Pd	09	28.00	0.7
ASS	80.89	335	P	09	29.60	2.3
PZZ	80.91	339	P	09	26.17	-1.4
ROB	80.94	338	P	09	26.79	-0.8
FIN	80.94	338	P	09	26.38	-1.2
LBL	81.03	342	P	09	28.58	0.7
ENR	81.11	339	P	09	26.48	-2.0
STV	81.11	339	P	09	26.58	-1.9
HRI	81.21	314	eP	09	29.00	-0.2
RJF	81.29	343	iPc	09	29.50	0.2
	1.1s	105.00nm			5.7mb	
IMI	81.30	338	P	09	29.15	-0.3
SBF	81.45	338	iPc	09	29.50	-0.7
	0.9s	67.15nm			5.6mb	
MNS	81.52	334	P	09	32.10	1.5
CAF	81.55	342	iPc	09	31.40	0.7
BRT	81.60	331	Pd	09	32.50	1.5
AZI	81.68	334	P	09	33.40	2.0
LFF	81.78	343	iPc	09	32.40	0.5
	1.3s	216.60nm			5.9mb	
LCI	81.87	330	P	09	31.50	-0.8
FRF	81.91	339	eP	09	32.20	-0.4
	1.2s	47.60nm			5.3mb	
LPO	81.95	343	iPc	09	33.20	0.4
	1.0s	132.00nm			5.8mb	
RMP	82.05	334	P	09	34.80	1.5
LRG	82.08	339	iPc	09	33.40	0.0
	0.9s	60.60nm			5.5mb	
RDP	82.10	334	P	09	35.60	2.0
PGF	82.32	337	iPc	09	34.30	-0.6
	0.8s	41.65nm			5.4mb	
SGO	82.47	332	P	09	40.00	4.5X
ORI	82.58	331	P	09	39.00	2.9X
DSI	82.81	313	eP	09	37.00	-0.4
EPF	83.70	343	eP	09	42.80	0.9
	0.8s	16.80nm			5.1mb	
MBH	84.55	312	eP	09	46.00	-0.4
MEU	85.77	331	P	09	54.00	1.6
TIC	120.08	340	PKPd	16	03.70	-0.4
KIC	120.29	339	PKPd	16	03.80	-0.7
LIC	120.49	339	PKPd	16	04.30	-0.5
S.D. = 1.0			on 181 of 193 obs.			

JAN 10, 1991 14h 31m 49.43± 0.83s
39.094 N ± 7.1km 21.160 E ± 6.2km
DEPTH = 5.0km (geophysicist)
GREECE (364)
MD 3.0 (ATH).

EVR	0.54	109	ePg	31	59.00	-1.2
IGT	0.78	305	ePc	32	03.98	-1.0
			eS	32	17.90	
AGG	0.91	94	ePc	32	06.38	-1.0
			eS	32	21.10	
KEK	1.22	301	ePb	32	12.80	0.2
KZN	1.30	21	ePg	32	16.20	2.2
LIT	1.44	45	ePc	32	16.34	0.1
			eS	32	38.34	
NEO	1.62	82	ePb	32	18.30	-0.4
FNA	1.70	6	ePc	32	20.78	0.9
			eS	32	45.30	
ITM	2.00	162	ePg	32	26.20	1.9
OHR	2.03	352	ePn	32	23.50	-1.3
GRG	2.09	27	iPc	32	26.10	0.5
PAIG	2.12	66	ePc	32	25.30	-0.7
			eS	32	51.82	
SOH	2.41	44	ePc	32	30.66	0.4
KNT	2.46	32	ePc	32	32.06	1.2
			eS	33	04.06	
VAY	2.47	25	ePn	32	31.00	0.0
SRS	2.75	42	ePc	32	35.10	0.1
SKO	2.88	4	ePn	32	35.00	-1.9
S.D. = 1.2			on 17 of 17 obs.			

JAN 10, 1991 14h 55m 30.93± 0.80s
41.121 N ± 6.4km 22.442 E ± 7.0km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.8 (SKO).

GRG	0.17	191	iPc	55	34.76	0.0
			eS	55	37.64	
VAY	0.22	26	iPg	55	35.70	0.0
			iSg	55	39.40	
KNT	0.35	83	iPc	55	38.30	0.2
			eS	55	43.32	
THE	0.63	141	iPd	55	42.96	-0.6
			eS	55	50.72	
SRS	0.87	90	ePc	55	43.32	-4.3X
			eS	55	59.64	
FNA	0.87	248	ePd	55	47.64	-0.1
			eS	55	59.28	
LIT	1.02	178	iPc	55	50.76	0.5
S.D. = 0.5			on 6 of 7 obs.			

JAN 10, 1991 16h 59m 47.89± 0.89s
40.980 N ± 5.9km 22.250 E ± 7.4km
DEPTH = 10.0km (geophysicist)
GREECE (364)

GRG	0.12	102	iPd	59	51.54	0.7
			eS	59	53.34	
VAY	0.42	35	iPg	59	56.50	0.1
KNT	0.52	69	iPc	59	58.37	-0.1
			eS	00	05.05	
THE	0.64	122	ePc	00	00.22	-0.6
SOH	0.85	100	iPd	00	04.21	-0.1
LIT	0.90	168	ePd	00	05.26	0.2
SKO	1.16	329	ePg	00	09.50	-0.1
S.D. = 0.5			on 7 of 7 obs.			

& JAN 10, 1991 17h 12m 20.04s
61.528 N 147.913 W
DEPTH = 3.8km
SOUTHERN ALASKA (2)
<AEIC>.

KNK	0.29	246	iP	12	26.18	0.4
			eS	12	29.87	
SML	0.35	325	eP	12	27.81	0.8
GHO	0.54	297	iP	12	30.99	0.1
			eS	12	39.73	
PLRM	0.59	277	iP	12	31.58	-0.2
			eS	12	41.53	
GLI	0.76	148	eP	12	35.40	0.1
			eS	12	45.69	
VZW	0.81	125	eP	12	35.85	-0.3
			eS	12	47.08	
PMS	0.84	251	iP	12	36.42	-0.4
			eS	12	48.52	
VLZ	0.86	117	eP	12	36.59	-0.5
			eS	12	48.63	
PWA	0.95	278	eP	12	38.29	-0.4
			eS	12	51.59	
KLU	0.96	91	iP	12	37.43	-1.4
			eS	12	50.89	
TOA	1.01	54	iP	12	38.92	-0.8
KNIM	1.19	176	eP	12	42.16	-0.6
			iS	12	58.10	
TZL	1.29	65	iP	12	43.51	-1.0
SUA	1.36	269	eP	12	45.38	-0.5
			eS	13	03.45	
CUT	1.42	309	iP	12	46.15	-0.5
			eS	13	04.32	
LTI	1.49	179	eP	12	48.25	0.6
SDG	1.50	47	eP	12	46.70	-1.1
			eS	13	05.92	
SLKM	1.52	229	eP	12	48.20	0.1
			eS	13	07.57	
MTU	1.55	175	eP	12	49.19	0.7
SEW	1.62	208	eP	12	49.76	0.4
			eS	13	11.73	
HUR	1.66	332	eP	12	50.61	0.5
			eS	13	12.06	
SKT	1.78	286	eP	12	52.04	0.2
			eS	13	15.11	
NKA	1.80	245	eP	12	55.22	3.2
PAX	1.85	37	eP	12	51.86	-1.0
			eS	13	15.09	
RND	1.94	347	eP	12	54.20	0.1
GLB	1.97	91	eP	12	54.41	-0.2
CGLM	1.98	265	eP	12	55.61	0.8
SPU	2.03	262	eP	12	56.44	1.0
NCG	2.04	268	eP	12	57.07	1.4
CKL	2.16	263	eP	12	58.66	1.3
BGL	2.17	265	eP	12	59.01	1.4
RDT	2.39	248	eP	13	01.06	0.4
REF	2.55	248	eP	13	03.99	0.9
RDN	2.57	249	eP	13	03.72	0.4
TGL	2.58	105	eP	13	04.02	0.6
RSO	2.59	248	eP	13	04.78	1.1
RS2	2.59	248	eP	13	05.69	2.0
CNPM	2.59	221	eP	13	04.69	1.2
RED	2.62	247	eP	13	07.43	3.5
NCT	2.63	251	eP	13	05.12	1.1
BALM	2.73	98	eP	13	05.54	-0.1
CTGM	3.23	97	eP	13	14.80	2.1
42 obs. associated						

% JAN 10, 1991 17h 15m 21.25± 0.46s
46.943 N ± 5.3km 1.528 E ± 4.3km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.7 (LDG).

LSF	0.69	180	Pg	15	35.20	0.2
			Sg	15	44.40	
TCF	0.81	144	Pg	15	36.70	-0.2
			Sg	15	48.60	
BGF	0.98	113	Pg	15	39.60	-0.3
			Sg	15	53.40	
MAF	1.02	135	Pg	15	40.60	0.1
			Sg	15	54.80	
MFF	1.20	254	Pg	15	42.00	-1.6
			Sg	15	57.20	
AVF	1.26	96	Pg	15	44.20	-0.5
			Sg	16	01.00	
SSF	1.36	84	Pg	15	45.30	-0.9
			Sg	16	03.90	
SMF	1.62	100	Pg	15	50.40	0.5
			Sg	16	11.60	
LOR	1.62	78	Pg	15	49.80	-0.2
			Sg	16	11.60	
RJF	1.64	180	Pg	15	51.60	1.4
			Sg	16	13.60	
LBF	1.68	88	Pg	15	51.20	0.4
			Sg	16	13.00	
LDF	1.99	327	Pg	15	55.60	0.3
			Sg	16	18.80	
LPF	2.05	303	Pg	15	56.00	-0.2
			Sg	16	21.80	
FLN	2.27	324	Pg	16	00.40	1.1
			Sg	16	28.00	
S.D. = 0.8			on 14 of 14 obs.			

? JAN 10, 1991 17h 20m 21.96± 5.97s
39.576 N ±57.1km 28.818 E ±27.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.5 (ISK).

DST	0.15	281	iPg	20	25.00	-0.5
			eSg	20	28.10	
IZI	0.91	33	ePn	20	39.80	0.4
YLV	1.08	23	iPn	20	41.70	-0.6
KGT	1.46	307	iPn	20	48.90	0.6
S.D. = 1.0			on 4 of 4 obs.			

? JAN 10, 1991 19h 05m 53.42± 4.63s
4.467 N ±38.4km 76.489 W ±21.8km
DEPTH = 33.0km (normal)
COLOMBIA (103)
MD 2.9 (ISK).

10d 19h

HOBC	0.37	107	eP	06	02.21	0.0
			eS	06	12.20	
BUGC	0.61	158	eP	06	06.21	0.4
			eS	06	19.50	
HOOC	1.00	188	eP	06	11.57	0.1
			eS	06	28.60	
ANCC	1.02	202	eP	06	11.42	0.0
DIAC	1.20	166	eP	06	13.64	-0.5

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

JAN 10, 1991 19h 48m 05.67± 0.79s
5.475 S ± 5.5km 151.932 E ± 6.1km
DEPTH = 53.6 ± 8.1 km
5.2mb (7 obs.) 4.2Msz (1 obs.)
NEW BRITAIN REGION (192)

RAB	1.30	11	iPd-	48	28.20	0.4
YYYY	5.98	262	eP	49	41.00	7.0X
PMG	6.14	230	eP	49	36.00	-0.1
VSG	8.58	116	eP	50	10.00	0.0
			eS	51	10.00	
SVO	8.63	115	eP	50	15.00	4.4X
HNR	8.87	117	P	50	14.00	0.1
			S	51	50.00	
QIS	19.19	217	ePd	52	27.50	-0.6
			i	52	35.00	
PJG	20.20	340	e(P)	52	37.20	-1.6
RMO	21.12	188	eP	52	48.00	-0.1
DZM	21.66	141	iPc	52	56.80	3.1X
MTN	21.79	249	eP	52	57.50	2.6X
	0.4s		52.00nm			5.3mb
KNA	24.92	244	eP	53	26.00	0.6
	0.5s		64.00nm			5.4mb
ASPA	25.07	222	eP	53	26.90	0.0
	0.4s		30.70nm			5.2mb
	Z 19s		0.70um			4.2Msz
			ipP	53	35.40	30kmX
			iS	57	52.10	
WARB	31.75	227	eP	54	26.50	-0.5
	0.3s		3.00nm			4.6mb
FORR	33.75	219	eP	54	44.00	-0.3
	0.4s		17.00nm			5.3mb
MBL	34.80	240	eP	54	54.00	0.5
PPR	36.38	295	ePd	55	08.00	1.0
SVW	77.77	23	ePc	59	59.20	0.7
TTA	78.71	22	ePc	00	04.20	0.5
PMR	80.65	25	ePc	00	13.40	-0.6
	0.7s		48.84nm			5.5mb
IMA	81.38	20	ePc	00	17.60	-0.3
	1.2s		8.50nm			4.6mb
TOA	82.13	25	eP	00	22.60	0.8
FBA	82.83	22	eP	00	24.20	-1.1
INK	89.39	21	eP	00	57.00	-0.5
MBC	94.97	14	eP	01	23.00	-0.1
MAIO	95.17	306	eP	01	06.00	-18.9X
SIV	140.99	124	ePKP	07	27.00	-5.7X
IFR	144.88	326	iPKPd	07	38.50	-0.7
AVE	146.30	328	iPKPc	07	43.00	1.7
TIO	148.01	325	iPKPc	07	48.00	3.7X
			i	07	56.50	
KIC	156.78	273	PKP	08	12.00	14.8X

S.D. = 0.8 on 23 of 31 obs.

JAN 10, 1991 19h 54m 22.37± 0.38s
23.499 N ± 4.9km 95.720 E ± 5.0km
DEPTH = 33.0km (normal)
4.7mb (4 obs.) 4.0Msz (1 obs.)
BURMA (296)

CHG	5.55	147	iPn	55	44.30	-0.5
			iPg	56	04.00	
			iSg	57	16.00	
CHTO	5.55	147	iPn	55	44.20	-0.6
			ePg	56	03.90	
KMI	6.60	74	ePg	56	03.20	3.3X
			Sg	57	23.00	
BDT	6.94	153	ePn	56	03.80	-0.6
LOE	8.27	136	ePn	56	26.00	2.9X
			ePg	56	56.00	
			eSg	58	41.00	
NST	8.83	151	eP	56	32.50	1.8
GUN	9.90	298	P	56	46.84	1.0
PKI	10.15	296	P	56	49.62	0.3
CD2	10.28	42	eP	56	51.10	0.4
	Z 13s		3.60um			
PCT	10.29	147	ePn	56	51.00	0.2
			eSg	59	47.00	
KKN	10.34	297	P	56	51.78	0.0
GYA	10.36	71	P	56	51.00	-0.9
	Z 12s		1.80um			
DMN	10.42	295	P	56	52.12	-0.8
GKN	10.95	296	P	56	58.98	-1.0
LZH	14.38	27	eP	57	44.50	-1.2
	1.4s		19.00nm			4.5mb
	Z 15s		1.06um			5.2Msz
	E 16s		3.06um			
			sP	57	53.00	
GTA	16.24	11	Pc	58	11.40	1.7
	3.5s		210.00nm			4.7mb X
	Z 12s		1.70um			5.1Msz
			pP	58	15.60	
HYB	17.18	253	eP	58	28.00	6.4X
	1.0s		55.00nm			4.6mb
			e	58	31.50	
NDI	17.40	291	eP	58	29.00	4.7X
IPM	19.49	164	ePc	58	54.00	4.2X
GBA	19.91	244	P	58	58.20	4.0X
POO	21.00	261	eP	59	11.50	6.0X
			iS	03	12.50	
WMO	21.32	344	iPc	59	08.70	0.0
	6.0s		400.00nm			5.0mb X
	Z 10s		0.40um			4.1MszX
			S	03	08.00	
HHC	21.83	34	P	59	13.00	-0.8
	Z 14s		1.00um			4.4MszX
	N 12s		0.70um			
	E 11s		0.90um			
BOM	21.83	262	eP	59	19.00	5.2X
			eS	03	12.00	
KOD	21.85	236	eP	59	19.00	4.6X
NJ2	22.14	62	Pc	59	17.50	0.7
	Z 15s		0.60um			4.1MszX
SSE	23.83	66	eP	59	28.00	-5.3X
	Z 20s		0.50um			4.0Msz
	N 10s		1.10um			
BJI	23.88	42	eP	59	34.00	0.3
	Z 16s		0.87um			4.3MszX
	N 12s		0.96um			
	E 10s		0.61um			
			eS	03	48.00	
WRA	57.29	136	P	04	09.00	-0.5
	0.7s		5.40nm			4.7mb
ASPA	59.77	139	iPc	04	27.30	0.5
	1.2s		7.80nm			4.7mb

S.D. = 0.9 on 20 of 30 obs.

JAN 10, 1991 20h 14m 00.49± 0.31s
42.630 N ± 3.1km 12.959 E ± 4.4km
DEPTH = 11.6 ± 3.0 km
CENTRAL ITALY (381)

MNS	0.32	220	Pc	14	07.10	-0.1
			iSg	14	10.00	
AQU	0.43	130	P	14	09.60	0.3
			iSg	14	17.40	
ASS	0.49	334	P	14	10.70	0.1
			eSg	14	18.90	
AZI	0.73	151	P	14	15.50	0.8
			eSg	14	26.40	
RMP	0.84	193	P	14	15.80	-0.8
			eSg	14	28.20	
ARV	0.87	359	P	14	17.80	0.7
			eSg	14	31.50	
RDP	0.89	192	P	14	16.80	-0.6
			eSg	14	29.40	
SDI	1.12	145	P	14	22.00	0.6
			eSg	14	37.40	
CRE	1.24	324	P	14	23.60	0.1
			eSg	14	41.20	
RSM	1.35	344	P	14	26.70	1.6
			eSn	14	45.20	
DUI	1.48	130	P	14	27.90	0.9
			(Sn)	14	46.90	
SFI	1.52	328	P	14	27.60	0.1
			eSn	14	47.50	
FIR	1.69	313	ePg	14	31.00	1.0
			eSg	14	50.00	
PII	2.09	302	P	14	39.50	3.7X
BDI	2.24	311	P	14	37.90	-0.2
			eSn	15	04.00	
MME	2.27	314	P	14	38.50	-0.1
HVAR	2.62	77	ePn	14	43.80	0.4
			iSn	15	15.10	
SGO	2.72	139	P	14	45.00	0.2
RIY	2.90	20	e(Pn)	14	47.30	0.0
			iSg	15	21.00	
TRI	3.13	10	eP	14	48.70	-1.9
			e	15	24.70	
			e	15	42.10	
CEY	3.28	18	e(Pn)	14	52.00	-0.8
			eSn	15	30.40	
VBY	3.32	29	e(Pn)	15	03.00	9.7X
			eSn	15	51.40	
BOB	3.32	311	P	14	52.80	-0.6
VOY	3.47	11	ePn	14	54.30	-1.1
			eSn	15	34.50	
CTI	3.54	345	P	14	56.50	-0.1
			eSn	15	37.20	
LJU	3.60	18	ePn	14	57.00	-0.2
			eSn	15	39.00	
BRT	3.63	117	P	14	56.50	-1.2
PTJ	3.92	32	eP	15	52.50	50.7X
FVI	3.97	358	P	15	02.30	-0.1
			eSn	15	46.00	
SQTA	4.76	345	iPnc	15	14.80	1.0
	0.4s		7.90nm			
			iSn	16	07.10	
			i	16	11.70	
KHC	6.52	4	eP	15	43.00	4.4X
KRA	8.86	31	eP	16	47.90	36.8X

S.D. = 0.8 on 27 of 32 obs.

% JAN 10, 1991 20h 16m 00.54± 0.82s
42.584 N ± 5.8km 12.813 E ± 9.4km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

MNS	0.22	206	P	16	05.10	-0.3
			eSg	16	09.70	
AQU	0.49	118	P	16	10.10	-0.5
			eSg	16	17.10	
ASS	0.50	347	P	16	11.00	0.3
			eSg	16	17.90	
ARV	0.92	6	P	16	17.80	-0.3
			eSg	16	31.70	
SDI	1.15	139	P	16	22.80	0.7
			eSn	16	38.20	

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

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* JAN 10, 1991 20h 35m 25.78± 1.37s
44.224 N ± 6.3km 14.804 E ±13.9km
DEPTH = 10.0km (geophysicist)
ADRIATIC SEA (382)

RIY	1.16	345	ePn	35	47.80	0.4
			iSg	36	18.80	
ARV	1.53	242	P	35	54.10	0.9
HVAR	1.59	131	iPg	35	20.30	-33.7X
			iSg	35	31.10	
TRI	1.66	334	P	35	59.50	4.5X
ASS	1.94	234	P	35	59.00	-0.1
CRE	2.15	255	P	36	02.50	0.3
SFI	2.15	263	P	36	03.50	1.4
MNS	2.41	221	P	36	05.00	-0.8
FVI	2.76	330	P	36	14.80	3.9X
CTI	2.88	310	P	36	12.50	-0.2
PII	3.13	262	P	36	14.50	-1.5
BRT	3.78	151	P	36	30.00	4.6X
SQTA	3.91	321	iPnd	36	26.80	-0.5
			i	37	17.30	
			i	37	27.40	
MNO	6.29	181	P	37	01.20	0.2

S.D. = 1.0 on 10 of 14 obs.

& JAN 10, 1991 20h 37m 59.25s
59.999 N 152.170 W
DEPTH = 94.4km
SOUTHERN ALASKA (2)
<AEIC>.

INE	0.45	278	eP	38	14.21	-0.3
			eS	38	25.59	
RED	0.52	325	eP	38	14.09	-0.8
			eS	38	26.70	
RSO	0.55	328	eP	38	14.51	-0.8
			eS	38	26.41	
REF	0.56	332	iP	38	14.70	-0.7
			eS	38	26.53	
RDT	0.59	349	iP	38	15.03	-0.4
RDN	0.60	330	iP	38	14.77	-0.8
			eS	38	26.78	

NCT	0.68	326	eP	38 14.75	-1.6
			eS	38 27.62	
AUH	0.91	226	eP	38 17.55	-1.0
SPU	1.19	3	iP	38 21.16	-0.6
			eS	38 38.13	
CRP	1.27	0	eP	38 22.31	-0.6
BGL	1.27	355	iP	38 22.01	-0.9
CGLM	1.32	3	iP	38 22.76	-0.6
NCG	1.41	0	eP	38 23.56	-1.0
VZW	2.97	67	eP	38 44.00	-1.3
KLU	3.41	61	eP	38 50.40	-1.0

15 obs. associated

? JAN 10, 1991 21h 09m 19.90± 5.87s
3.037 N ±17.3km 79.414 W ±48.9km
DEPTH = 5.0km (geophysicist)
SOUTH OF PANAMA (83)
MD 4.3 (UVC).

CUMC	2.57	143	eP	10 03.29	-0.1
			eS	10 31.70	
ANCC	2.59	79	eP	10 03.01	-0.2
			eS	10 31.20	
SALC	2.72	91	eP	10 04.31	-0.9
HOQC	2.81	81	eP	10 06.02	-0.6
			eS	10 36.60	
CLMC	2.97	73	eP	10 08.52	-0.2
SILC	3.09	96	eP	10 10.55	-0.1
PURC	3.13	103	ePc	10 12.33	1.0
DIAC	3.22	85	iPd	10 12.56	0.2
			eS	10 48.00	
BUGC	3.26	75	eP	10 13.10	0.2
			eS	10 49.00	
HOBC	3.52	68	eP	10 17.09	0.5
			eS	10 55.80	

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

JAN 10, 1991 22h 17m 34.69± 0.64s
38.440 N ± 5.3km 21.812 E ± 8.0km
DEPTH = 5.0km (geophysicist)
GREECE (364)
MD 3.1 (ATH).

EVR	0.48	360	ePg	17 43.60	-0.7
AGG	0.71	35	ePc	17 48.14	-0.7
			eS	17 59.46	
VLS	1.00	255	ePb	17 52.90	-1.2
ITM	1.26	176	ePb	17 57.80	-0.8
NEO	1.40	51	ePb	18 00.50	-0.4
IGT	1.59	314	ePc	18 07.14	3.6X
			eS	18 30.86	
LIT	1.74	17	iPc	18 05.78	0.0
			eS	18 30.14	
KZN	1.86	359	ePg	18 10.40	2.8X
VLI	1.94	152	ePb	18 10.30	1.7
PAIG	2.08	44	iPc	18 09.42	-1.2
			eS	18 36.34	
FNA	2.37	352	iPd	18 16.14	1.3
			eS	18 48.26	
SOH	2.66	26	ePc	18 19.10	0.1
OHR	2.78	344	ePn	18 22.00	1.3
			e	18 23.00	
KNT	2.84	17	ePd	18 22.10	0.5
			eS	18 56.42	

S.D. = 1.1 on 12 of 14 obs.

? JAN 10, 1991 22h 20m 14.17± 0.88s
16.514 N ± 7.5km 120.632 E ±17.1km
DEPTH = 10.0km (geophysicist)
LUZON, PHILIPPINE ISLANDS (249)
Felt (III RF) at Baguio.

BAG	0.11	206	eP	20 17.00	-0.2
SZP	1.05	351	iPd	20 34.00	0.1
			iS	20 50.00	
CVP	1.64	44	eP	20 43.00	-0.1
			eS	21 05.00	
PGP	3.01	174	ePd	21 03.00	0.2
			eS	21 27.00	

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

% JAN 10, 1991 22h 54m 47.73± 0.85s
42.631 N ± 5.9km 12.971 E ±10.8km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

MNS	0.33	221	Pc	54 54.10	-0.4
			eSg	54 58.90	
ASS	0.49	333	P	54 57.80	0.0
			eSg	55 05.60	
ARV	0.87	359	P	55 03.50	-0.9
			eSg	55 17.90	
SDI	1.12	146	P	55 09.00	0.3
			eSg	55 25.20	
CRE	1.24	324	P	55 11.00	0.1
SFI	1.53	328	P	55 16.00	1.0

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

JAN 10, 1991 22h 55m 14.67± 0.32s
37.070 N ± 3.0km 29.521 E ± 3.6km
DEPTH = 21.3 ± 3.7 km
TURKEY (366)
MD 4.1 (ISK), 3.9 (ATH), 3.7
(HLW). Felt in the Denizli area.

ELL	0.45	136	iPg	55 23.00	-0.9
BCK	0.94	65	iPn	55 31.50	-0.7
			eSg	55 45.50	
KSL	0.95	177	ePb	55 32.50	0.2
YER	0.99	274	iPn	55 32.40	-0.7
KHL	1.25	0	iPn	55 35.80	-1.2
CIN	1.26	295	ePg	55 36.00	-1.0
			iSg	55 54.00	
ARG	1.41	233	ePn	55 38.40	-0.8
ALT	2.04	13	ePn	55 49.10	0.7
IZM	2.23	307	ePn	55 52.00	0.9
SMG	2.23	287	ePn	55 51.90	0.9
DST	2.63	345	iPn	55 56.20	-0.6
PPCY	3.16	133	eP	56 05.50	1.2
IZI	3.26	359	ePn	56 06.00	0.2
KCT	3.30	344	ePn	56 06.00	-0.3
PRK	3.36	311	ePn	56 10.20	3.2X
YLV	3.49	358	ePn	56 09.00	-0.1
BNT	3.51	340	ePn	56 09.00	-0.3
EDC	3.52	339	ePn	56 10.00	0.6
NPS	3.64	241	ePn	56 11.50	0.4
GBZT	3.71	359	eP	56 23.00	10.9X
EZN	3.72	319	ePn	56 13.00	0.8
CSS	3.74	123	eP	56 16.50	4.0X
HRT	3.75	2	ePn	56 13.70	1.1
BBTK	3.76	42	eP	56 14.00	1.1
			i	56 28.00	
KGT	3.80	334	ePn	56 13.70	0.5
ISK	4.01	355	ePn	56 16.00	-0.2
ITU	4.05	355	ePn	56 32.00	15.2X
ADI	6.14	129	eP	56 48.00	1.5
GLH	6.66	129	eP	56 54.00	0.2
SHMJ	6.71	128	P	56 55.00	0.5
KFNJ	7.27	134	Pc	57 02.40	0.2
DSI	7.32	137	eP	57 03.00	0.0
HLW	7.35	168	e(P)	57 08.50	5.1X
			eS	57 58.50	
KOT	7.38	164	ePn	56 29.50	-34.3X
MLR	8.83	343	ePd	57 11.50	-12.7X
			e	26 18.00	
VRI	9.04	347	eP	57 38.00	11.1X
GKN	46.78	84	P	03 43.80	-0.8
DMN	47.32	85	P	03 48.60	-0.5
KKN	47.38	84	P	03 48.40	-1.1
PKI	47.58	85	P	03 50.40	-0.8
GUN	47.81	84	P	03 52.10	-0.9

S.D. = 0.8 on 33 of 41 obs.

& JAN 10, 1991 22h 58m 26.26s
62.907 N 150.480 W
DEPTH = 21.1km
2.8mb (1 obs.)
CENTRAL ALASKA (1)
<AEIC>.

PMR	1.46	154	eP	58 51.70	0.2
NCG	1.70	208	iP	58 54.79	-0.3
			eS	59 16.85	
CGLM	1.76	205	eP	58 55.42	-0.5
CRP	1.83	206	eP	58 57.05	0.1
BGL	1.88	209	eP	58 57.75	0.1
SPU	1.88	204	eP	58 56.95	-0.8
FBA	2.33	30	eP	59 04.00	0.0
RDT	2.51	202	eP	59 05.21	-1.6
TTA	2.53	273	eP	59 05.90	-1.1
KLU	2.57	122	eP	59 05.90	-1.6
VZW	2.62	133	eP	59 06.00	-2.3
NCT	2.63	207	eP	59 06.72	-1.7
RDN	2.64	205	eP	59 06.92	-1.6
REF	2.65	205	eP	59 08.37	-0.4
RSO	2.68	205	eP	59 08.02	-1.3
RED	2.73	205	eP	59 08.69	-1.1
SVW	3.02	236	eP	59 13.40	-0.5
IMA	3.46	338	eP	59 19.30	-1.0
AUH	3.83	203	eP	59 24.65	-0.8
YKA	16.33	75	eP	02 09.80	-5.7
	0.6s		0.50nm		2.8mb

20 obs. associated

% JAN 10, 1991 22h 59m 39.14± 0.93s
3.765 N ± 9.1km 76.579 W ±13.7km
DEPTH = 33.0km (normal)
COLOMBIA (103)
MD 2.9 (UVC).

CLMC	0.12	8	iPd	59 46.84	1.6
			eS	59 55.00	
HOQC	0.30	190	eP	59 48.13	0.9
			eS	59 57.20	
ANCC	0.38	229	iPc	59 47.44	-0.6
			eS	22 56.00	
DIAC	0.61	141	eP	59 51.87	0.5
			eS	00 03.80	
HOBC	0.73	37	eP	59 51.94	-1.2
			eS	00 03.90	
SALC	0.80	188	eP	59 53.22	-0.8
SILC	1.10	167	ePc	59 58.28	-0.3
			eS	00 15.00	

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

% JAN 10, 1991 23h 20m 49.46± 0.70s
40.698 N ± 7.4km 28.713 E ± 5.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

ISK	0.45	35	iPg	20 58.70	0.0
			iSg	21 04.70	
YLV	0.52	104	iPg	20 59.70	-0.3
IZI	0.68	122	iPg	21 02.80	-0.2
			eSg	21 12.90	
BNT	0.69	241	ePg	21 02.20	-1.0
HRT	0.74	80	iPg	21 04.20	0.3
DST	1.09	183	ePn	21 10.70	0.7
KGT	1.10	258	iPn	21 10.70	0.6

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

? JAN 11, 1991 00h 11m 26.85± 6.60s
34.872 S ±57.5km 72.815 W ±32.8km
DEPTH = 29.0 ± 6.8 km
NEAR COAST OF CENTRAL CHILE (135)

LNV	1.48	52	iPc	11 51.50	-0.2
			iS	12 09.50	
LCCH	1.73	37	eP	12 11.50	16.1X
			i	12 16.00	
			iS	12 50.00	
TACH	1.97	52	iPc	11 58.50	-0.4
			iS	12 25.00	
PCH	2.28	57	eP	12 03.50	0.2
			iS	12 32.50	
SAN	2.28	52	eP	12 03.50	0.2
			iS	12 32.50	
ROCH	2.42	39	iPc	12 05.50	0.0
			i	12 43.20	
FCH	2.60	54	iPc	12 08.00	-0.2
JACH	2.86	41	eP	12 11.50	-0.1
			i	12 16.00	
			iS	12 50.00	
MDZ	3.85	60	e(P)	12 31.30	5.7X
			i	12 36.80	
SIV	21.55	32	eP	16 16.00	0.0

S.D. = 0.3 on 8 of 10 obs.

JAN 11, 1991 00h 24m 59.99± 0.41s
40.808 N ± 4.1km 27.519 E ± 4.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.4 (ISK).

KGT	0.39	205	iPg	25 07.60	-0.4
EDC	0.53	150	ePg	25 10.50	-0.2
			eSg	25 18.00	
BNT	0.54	146	iPg	25 10.60	-0.4
KCT	0.85	131	iPg	25 17.00	0.6
			iSg	25 28.70	

11d 00h

DMK	1.03	10	iPg	25	18.30	-1.1
			iSg	25	32.70	
ITU	1.17	75	ePg	25	22.00	0.2
			iSg	25	39.00	
ISK	1.19	77	iPn	25	22.10	-0.1
EZN	1.34	223	iPn	25	23.60	-1.1
YLV	1.43	99	iPn	25	25.10	-0.9
GBZT	1.46	90	ePn	25	25.50	-0.9
			iSg	25	46.20	
DST	1.47	144	ePn	25	27.20	0.6
IZI	1.56	107	ePn	25	28.10	0.2
HRT	1.63	89	iPn	25	28.10	-0.8
KDZ	1.80	299	iPd	25	32.00	0.8
JMB	1.80	337	iPc	25	34.00	2.7
RZN	2.29	293	iPd	25	37.00	-1.6
IZM	2.42	185	ePn	25	41.00	0.8
PLD	2.48	302	eP	25	41.00	-0.1
ALT	2.65	130	ePn	25	45.00	1.4
PVL	2.91	327	eP	25	47.00	-0.1
KHL	2.93	147	ePn	25	48.00	0.5
MMB	2.97	286	eP	25	52.00	4.0X

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

JAN 11, 1991 01h 15m 27.34± 0.45s
43.098 N ± 4.1km 19.116 E ± 3.8km
DEPTH = 5.0km (geophysicist)
YUGOSLAVIA (383)
MD 2.9 (TTG).

NKY	0.30	197	iPgc	15	33.92	0.5
			iSg	15	40.85	
PLE	0.31	41	iPgd	15	31.88	-1.7
			iSg	15	36.17	
BRY	0.46	245	iPgd	15	34.70	-2.0
			iSg	15	42.43	
IVA	0.62	111	iPgc	15	40.03	0.3
			iSg	15	51.65	
TTG	0.68	171	iPgc	15	40.35	-0.5
			iSg	15	53.50	
HCY	0.79	215	iPgd	15	41.65	-1.6
			iSg	15	57.08	
PVY	0.81	128	iPgd	15	43.78	0.2
			iSg	15	57.88	
BDV	0.84	195	iPgc	15	44.10	0.0
			iSg	15	59.50	
ULC	1.14	175	iPgc	15	49.80	0.7
			iSg	16	10.45	
HVAR	1.95	273	iPnd	16	00.40	-1.1
			iSg	16	27.10	
BEO	1.98	29	ePn	16	02.50	0.7
	1.1s		0.10nm			
			iSg	16	28.00	
BRT	2.64	213	P	16	15.10	3.8X
BZS	3.09	35	eP	16	20.00	2.3X
DUI	3.74	249	P	16	28.00	1.0
SGO	3.81	230	P	16	28.80	0.8
SDI	4.16	252	P	16	33.20	0.2
ARV	4.52	277	P	16	38.50	0.4
ASS	4.73	272	P	16	41.00	-0.1
VOY	4.75	310	eP	16	42.00	0.7
			e(Sn)	16	55.50	
MNS	4.79	264	P	16	42.20	0.2
CRE	5.25	278	P	16	49.00	0.5
SFI	5.35	281	P	16	50.20	0.5
FVI	5.70	310	P	16	58.00	3.3X

S.D. = 0.9 on 20 of 23 obs.

? JAN 11, 1991 01h 24m 02.55± 2.73s
17.295 N ±11.7km 119.999 E ±31.2km
DEPTH = 33.0km (normal)
PHILIPPINE ISLANDS REGION (248)

SZP	0.51	60	iPd	24	12.00	-1.2
			eS	24	21.00	
BAG	1.04	148	eP	24	20.00	-1.0
			eS	24	34.00	
PIP	1.18	30	iPd	24	23.00	0.2
			iS	24	40.00	
CVP	1.79	77	eP	24	32.90	1.3
			eS	24	59.90	
PGP	3.88	166	eP	25	02.00	0.6

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

JAN 11, 1991 01h 41m 06.03± 1.38s
43.234 N ±10.0km 18.987 E ± 7.3km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MD 2.5 (TTG).

PLE	0.31	72	iPgd	41	12.65	0.1
			iSg	41	17.03	
NKY	0.42	179	iPgc	41	14.60	-0.1
			iSg	41	21.93	
BRY	0.46	224	iPgd	41	15.35	-0.2
			iSg	41	22.85	
IVA	0.76	118	iPgc	41	20.78	-0.2
			iSg	41	32.17	
TTG	0.83	166	iPgc	41	21.23	-0.8
			iSg	41	34.43	
HCY	0.86	205	iPgc	41	22.47	-0.2
			iSg	41	36.00	
BDV	0.96	187	iPgd	41	24.75	0.5
			iSg	41	38.98	
PVY	0.97	131	iPgd	41	24.43	-0.1
			iSg	41	38.47	
ULC	1.28	171	iPgc	41	30.57	0.7
			iSg	41	50.20	
HVAR	1.86	269	iPnd	41	41.20	3.1X
			iSg	42	08.50	

S.D. = 0.5 on 9 of 10 obs.

JAN 11, 1991 01h 49m 11.86± 0.43s
37.049 N ± 4.3km 29.488 E ± 4.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.8 (ISK), 3.8 (ATH).

ELL	0.45	132	iPg	49	21.00	-0.1
			eSg	49	28.50	
KSL	0.93	175	ePb	49	30.70	1.1
YER	0.97	275	iPn	49	30.50	0.2
BCK	0.97	65	iPn	49	29.50	-0.8
CIN	1.25	297	ePg	49	34.00	-1.0
			iSg	49	51.00	
KHL	1.27	1	iPn	49	35.40	-0.1
ARG	1.38	233	ePb	49	36.60	-0.4
ALT	2.06	14	ePn	49	47.00	0.0
SMG	2.21	288	ePn	49	49.60	0.5
IZM	2.22	308	ePn	49	50.00	0.7
DST	2.64	345	ePn	49	55.00	-0.3
IZI	3.28	360	ePn	50	08.00	3.6X
YLV	3.51	359	ePn	50	09.00	1.3
BBTK	3.79	42	eP	50	13.00	1.3
KGT	3.80	334	ePn	50	11.00	-0.7
HRI	6.36	125	eP	50	47.00	-1.0
BEO	10.34	321	ePn	51	42.50	-0.6
			eSg	52	08.50	

S.D. = 0.8 on 16 of 17 obs.

JAN 11, 1991 01h 51m 05.78± 0.80s
43.164 N ± 6.6km 19.065 E ± 5.3km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MD 2.5 (TTG).

PLE	0.29	55	iPgd	51	11.16	-0.8
			iSg	51	16.24	
NKY	0.35	188	iPgd	51	13.29	0.2
			iSg	51	20.88	
BRY	0.46	236	iPgc	51	14.06	-1.2
			iSg	51	22.23	
IVA	0.68	115	iPgd	51	19.53	0.2
			iSg	51	30.56	
TTG	0.75	169	iPgd	51	20.19	-0.2
			iSg	51	33.09	
HCY	0.83	210	iPgd	51	21.66	-0.1
			iSg	51	35.16	
PVY	0.88	130	iPgd	51	23.24	0.5
			iSg	51	36.88	
BDV	0.90	191	iPgc	51	22.56	-0.4
			iSg	51	37.71	
ULC	1.21	173	iPgc	51	28.68	0.4
			iSg	51	47.76	
HVAR	1.91	271	ePn	51	40.10	1.4
			iSg	52	06.90	

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

JAN 11, 1991 02h 00m 22.27± 0.78s
43.157 N ± 6.8km 19.063 E ± 5.3km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.3 (TTG).

PLE	0.30	54	iPgd	00	28.15	-0.4
			iSg	00	32.97	
NKY	0.35	188	iPgc	00	29.65	0.2
			iSg	00	36.57	
BRY	0.46	236	iPgd	00	30.42	-1.2
			iSg	00	37.83	
IVA	0.68	115	iPgc	00	35.75	0.0
			iSg	00	47.48	
TTG	0.74	169	iPgc	00	36.40	-0.4
			iSg	00	49.37	
HCY	0.82	211	iPgc	00	37.98	-0.2
			iSg	00	50.88	
PVY	0.87	130	iPgc	00	39.35	0.2
			iSg	00	53.33	
BDV	0.89	191	iPgc	00	40.13	0.8
			iSg	00	53.60	
HVAR	1.91	272	ePn	00	56.20	1.0
			iSg	01	22.80	

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

? JAN 11, 1991 02h 18m 36.96± 3.56s
44.047 N ±50.4km 147.898 E ±37.4km
DEPTH = 137.1 ± 45.1 km
4.0mb (3 obs.)
KURIL ISLANDS (221)

KUSJ	2.50	249	P	19	16.50	-1.5
			S	19	45.30	
HOOJ	3.76	245	P	19	35.50	1.1
			eS	20	18.80	
ASAJ	3.79	273	eP	19	35.40	0.6
YKA	55.25	34	eP	27	58.00	0.5
	0.6s		0.40nm		3.5mb	
NB2	69.52	339	P	29	32.00	-0.1
	0.5s		1.20nm		4.0mb	
HFS	69.62	337	eP	29	32.00	-0.6
	0.4s		3.20nm		4.5mb	

S.D. = 1.5 on 6 of 6 obs.

JAN 11, 1991 02h 30m 16.47± 0.78s
43.174 N ± 7.1km 19.066 E ± 5.3km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MD 2.6 (TTG).

PLE	0.29	57	iPgd	30	21.94	-0.6
			iSg	30	26.31	
NKY	0.36	188	iPgc	30	23.86	-0.1
			iSg	30	31.16	
BRY	0.47	235	iPgd	30	24.63	-1.4
			iSg	30	32.26	
IVA	0.68	116	iPgc	30	30.04	0.0
			iSg	30	41.68	
TTG	0.76	169	iPgd	30	30.59	-0.7
			iSg	30	43.51	
HCY	0.84	210	iPgd	30	31.59	-1.0
			iSg	30	45.11	
PVY	0.88	131	iPgd	30	33.86	0.3
			iSg	30	47.93	
BDV	0.91	191	iPgc	30	34.06	0.2
			iSg	30	48.33	
ULC	1.22	174	iPgd	30	40.44	1.3
			iSg	30	59.31	
HVAR	1.91	271	iPn	30	50.40	1.0
			iSg	31	17.40	
SDI	4.15	251	P	31	24.00	2.7
ASS	4.69	271	P	31	28.50	-0.5
MNS	4.77	263	P	31	29.00	-1.1
CRE	5.20	277	P	31	40.00	3.7X
SFI	5.30	281	P	31	41.00	3.5X

S.D. = 1.2 on 13 of 15 obs.

JAN 11, 1991 03h 27m 27.47± 0.60s
37.055 N ± 5.9km 29.470 E ± 5.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 4.2 (ATH), 3.7 (ISK).

ELL	0.47	131	iPg	27	36.50	-0.5
KSL	0.94	174	ePb	27	46.00	0.6
YER	0.95	275	iPn	27	46.00	0.3
BCK	0.98	65	iPn	27	46.00	-0.1
			eSg	28	01.00	
CIN	1.23	297	eP	27	49.00	-1.3
KHL	1.27	2	iPn	27	49.90	-1.1
ARG	1.37	233	ePb	27	51.70	-0.8
ALT	2.06	14	ePn	28	04.00	1.4
SMG	2.20	288	ePn	28	05.70	1.2

IZM 2.20 308 ePn 28 05.00 0.3
S.D. = 1.1 on 10 of 10 obs.

? JAN 11, 1991 03h 50m 26.61±13.63s
41.609 N ±95.9km 12.728 E ±78.5km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

RDP 0.15 357 P 50 29.90 -0.2
eSg 50 33.00
RMP 0.20 355 P 50 30.80 -0.3
eSg 50 34.20
MNS 0.78 357 P 50 41.80 0.0
eSg 50 51.90
SDI 0.82 83 P 50 42.50 0.0
eSg 50 54.00
S.D. = 0.3 on 4 of 4 obs.

? JAN 11, 1991 04h 13m 28.04± 0.97s
37.248 N ± 9.5km 29.677 E ± 9.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ELL 0.53 159 iPg 13 38.50 -0.3
eSg 13 46.50
BCK 0.76 73 iPn 13 43.50 0.6
KHL 1.08 354 iPn 13 52.40 4.0X
CIN 1.31 286 eP 13 53.00 0.7
MLR 8.70 342 eP 15 36.00 -0.9
S.D. = 1.3 on 4 of 5 obs.

? JAN 11, 1991 05h 12m 17.86± 7.71s
10.840 N ±34.5km 62.305 W ±71.3km
DEPTH = 80.0km (geophysicist)
NEAR COAST OF VENEZUELA (97)
MD 3.2 (TRN).

TCE 0.56 105 eP 12 32.11 -0.2
eS 12 43.13
TRN 0.91 102 eP 12 35.63 -0.4
eS 12 50.07
TPP 0.99 122 eP 12 37.65 0.7
eS 12 51.91
TBH 1.27 106 eP 12 40.10 -0.4
eS 12 59.02
BOT 1.59 78 eP 12 45.18 0.4
eS 13 07.51
S.D. = 0.7 on 5 of 5 obs.

JAN 11, 1991 05h 24m 46.28± 0.98s
43.148 N ± 7.5km 19.020 E ± 8.1km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MD 2.5 (TTG).

PLE 0.33 56 iPgd 24 51.47 -1.7
iSg 24 55.85
NKY 0.34 183 iPgc 24 53.39 0.1
iSg 25 00.29
BRY 0.43 235 iPgd 24 54.14 -0.9
iSg 25 01.60
IVA 0.70 113 iPgc 24 59.55 -0.6
iSg 25 10.42
TTG 0.74 166 iPgd 25 00.39 -0.4
iSg 25 13.12
HCY 0.80 209 iPgd 25 01.09 -0.7
iSg 25 14.64
BDV 0.88 189 iPgd 25 03.74 0.6
iSg 25 18.24
PVY 0.89 128 iPgd 25 03.54 0.1
iSg 25 17.19
ULC 1.20 172 iPgc 25 10.00 1.4
iSg 25 27.99
HVAR 1.88 272 ePn 25 19.90 1.1X
iSg 25 47.20
BEO 1.97 31 ePn 25 22.00 2.0
1.1s 0.07nm
OHR 2.43 146 ePn 25 31.00 4.3X
S.D. = 1.3 on 10 of 12 obs.

• JAN 11, 1991 06h 07m 26.00± 0.82s
39.730 N ± 8.5km 20.711 E ± 8.4km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
MD 2.3 (THE).

IGT 0.35 236 ePc 07 33.12 -0.2
eS 07 39.96
FNA 1.17 26 ePd 07 47.20 -0.7
eS 08 02.72
OHR 1.38 3 ePn 07 52.00 0.7
LIT 1.42 74 ePc 07 51.84 0.0
iS 08 10.40
AGG 1.44 119 ePc 07 52.32 0.2
eS 08 11.44
S.D. = 0.7 on 5 of 5 obs.

& JAN 11, 1991 06h 35m 52.99s
57.888 N 143.238 W
DEPTH = 10.0km (geophysicist)
GULF OF ALASKA (15)
<AEIC>.

MID 2.24 315 eP 36 25.58 -5.0
YKU 2.48 46 eP 36 27.87 -6.1
YAH 2.60 17 iP 36 30.69 -5.3
TGL 2.88 4 eP 36 34.11 -5.8
MTU 3.11 314 eP 36 37.80 -5.2
BALM 3.19 8 eP 36 38.83 -5.4
eS 37 15.32
LTI 3.22 314 eP 36 38.88 -5.7
eS 37 13.74
CTGM 3.24 17 eP 36 39.07 -5.9
KNIM 3.39 319 eP 36 41.17 -5.8
eS 37 20.52
GLB 3.58 356 eP 36 44.04 -5.7
GLI 3.59 328 eP 36 43.37 -6.5
VZW 3.60 333 eP 36 44.18 -5.9
VLZ 3.62 335 eP 36 44.29 -5.8
KLU 3.86 341 eP 36 48.19 -5.6
eS 37 30.20
SEW 3.91 307 eP 36 47.88 -6.4
PLBC 3.92 63 eP 36 46.50 -8.0
eS 37 29.00
TZL 4.31 346 eP 36 55.84 -4.2
SIT 4.35 98 eP 36 55.08 -5.5
BRLK 4.40 299 eP 36 55.65 -5.7
KNK 4.42 325 eP 36 57.08 -4.5
SLKM 4.45 309 eP 36 56.42 -5.6
eS 37 46.98
TOA 4.48 342 eP 36 57.13 -5.4
CNPM 4.48 295 eP 36 56.81 -5.7
PMS 4.65 319 eP 37 00.15 -4.8
NNL 4.70 301 eP 37 01.18 -4.4
PLRM 4.76 324 eP 37 02.26 -4.2
GHO 4.84 326 eP 37 03.74 -3.9
RDT 5.42 304 eP 37 10.18 -5.7
DPT 5.49 293 eP 37 11.83 -5.0
REF 5.52 302 eP 37 12.03 -5.3
RED 5.52 301 eP 37 11.39 -5.9
INE 5.53 297 eP 37 11.33 -6.1
RS2 5.53 302 eP 37 12.71 -4.9
RDN 5.56 302 eP 37 12.40 -5.4
SPU 5.57 310 eP 37 12.08 -5.9
CGLM 5.62 311 eP 37 13.07 -5.6
NCT 5.65 302 eP 37 13.87 -5.3
CKL 5.69 309 eP 37 14.10 -5.6
CUT 5.73 325 eP 37 15.55 -4.6
NCG 5.73 312 eP 37 15.03 -5.3
BGL 5.75 310 eP 37 15.09 -5.4
PDB 6.00 293 eP 37 18.27 -5.6
42 obs. associated

& JAN 11, 1991 06h 39m 45.67s
57.887 N 143.219 W
DEPTH = 10.0km (geophysicist)
GULF OF ALASKA (15)
<AEIC>.

MID 2.25 315 eP 40 18.54 -4.9
YKU 2.47 46 eP 40 20.99 -5.6
YAH 2.60 16 eP 40 23.27 -5.4
TGL 2.88 4 eP 40 27.08 -5.5
MTU 3.12 314 eP 40 30.48 -5.3
BALM 3.19 8 eP 40 31.42 -5.5
eS 41 07.43
LTI 3.23 314 eP 40 31.67 -5.7
eS 41 07.07
CTGM 3.23 17 eP 40 31.96 -5.6
KNIM 3.39 319 eP 40 34.01 -5.7
eS 41 10.90
GLB 3.58 355 eP 40 36.71 -5.7
GLI 3.60 328 eP 40 37.58 -5.0
eS 41 16.22
VZW 3.61 333 eP 40 37.20 -5.6
eS 41 18.67
VLZ 3.62 335 eP 40 37.83 -5.1
eS 41 18.48
KLU 3.87 340 eP 40 40.77 -5.8
eS 41 23.34
SEW 3.91 307 eP 40 41.65 -5.4
eS 41 25.94
TZL 4.32 346 eP 40 48.36 -4.5
KNK 4.42 325 eP 40 49.58 -4.8
SLKM 4.46 309 eP 40 49.19 -5.6
eS 41 38.09
PMS 4.66 319 eP 40 54.17 -3.6
eS 41 43.20
RDT 5.43 304 eP 41 02.68 -6.0
INE 5.54 297 eP 41 03.64 -6.6
SPU 5.58 310 eP 41 05.17 -5.6
eS 42 07.60
22 obs. associated

& JAN 11, 1991 06h 42m 00.66s
57.644 N 142.999 W
DEPTH = 10.0km (geophysicist)
GULF OF ALASKA (15)
<AEIC>.

MID 2.50 317 iP 42 36.82 -5.2
YKU 2.57 40 eP 42 38.61 -4.3
YAH 2.80 13 iP 42 41.48 -5.1
TGL 3.12 2 eP 42 44.88 -6.1
MTU 3.37 316 iP 42 48.78 -5.6
eS 43 26.47
BALM 3.42 5 eP 42 49.47 -5.7
eS 43 26.44
CTGM 3.44 14 eP 42 49.96 -5.5
LTI 3.48 316 eP 42 49.75 -6.2
eS 43 28.52
KNIM 3.66 320 eP 42 52.04 -6.4
eS 43 31.81
GLB 3.83 354 iP 42 54.82 -6.2
GLI 3.87 329 eP 42 54.85 -6.6
eS 43 37.45
VZW 3.88 334 iP 42 55.23 -6.4
VLZ 3.89 335 eP 42 55.23 -6.5
eS 43 36.92
PLBC 3.92 60 eP 42 57.20 -5.0
eS 43 39.90
KLU 4.14 340 iP 42 58.95 -6.3
SEW 4.16 309 eP 42 59.12 -6.4
SIT 4.20 95 eP 42 58.98 -7.1
HYT 4.26 39 eP 43 02.00 -5.1
eS 43 40.00
TZL 4.58 346 eP 43 05.92 -5.6
BRLK 4.63 301 eP 43 06.33 -6.0
KNK 4.69 326 iP 43 07.22 -5.9
SLKM 4.70 311 eP 43 07.17 -6.2
CNPM 4.71 297 eP 43 07.69 -5.7
TOA 4.75 342 eP 43 08.51 -5.6
PMS 4.92 320 eP 43 09.54 -6.9
NNL 4.93 303 eP 43 11.14 -5.4
PLRM 5.04 324 eP 43 12.30 -5.6
GHO 5.11 327 eP 43 13.12 -6.0
PWA 5.32 322 eP 43 15.24 -6.8
PAX 5.48 348 eP 43 17.80 -6.6
RDT 5.67 305 eP 43 20.50 -6.5
OPT 5.71 295 eP 43 22.41 -5.1
AUP 5.73 292 eP 43 23.61 -4.3
INE 5.76 299 eP 43 21.83 -6.5
REF 5.76 304 eP 43 21.69 -6.7
RED 5.76 303 eP 43 22.23 -6.1
RSO 5.77 303 eP 43 22.25 -6.3
RS2 5.77 303 eP 43 20.84 -7.7
RDN 5.80 304 eP 43 22.10 -6.8
SPU 5.83 311 eP 43 22.56 -6.6
CGLM 5.88 312 eP 43 23.71 -6.2
NCT 5.89 304 eP 43 23.61 -6.5
CRP 5.91 312 eP 43 22.57 -7.9
CKL 5.95 311 eP 43 24.78 -6.2
NCG 5.99 313 eP 43 25.10 -6.5
BGL 6.01 311 eP 43 25.91 -5.9
SKT 6.12 319 eP 43 27.36 -5.9
PDB 6.22 295 eP 43 28.86 -5.7
DWY 6.66 14 eP 43 35.00 -5.9
49 obs. associated

& JAN 11, 1991 06h 46m 31.36s
59.432 N 153.026 W

11d 06h

DEPTH = 75.8km
SOUTHERN ALASKA (2)
<AEIC>.

AUE	0.19	248	eP	46	42.30	1.1
AUP	0.21	251	iP	46	42.72	-0.3
AUH	0.22	252	eP	46	43.06	0.0
AUI	0.23	245	eP	46	42.64	-0.3
			eS	46	50.16	
OPT	0.24	335	eP	46	42.57	-0.5
			eS	46	50.61	
INE	0.63	358	eP	46	45.59	-0.8
			eS	46	56.62	
XLV	0.67	87	eP	46	45.62	-0.9
PDB	0.69	302	iP	46	46.01	-0.8
			eS	46	57.06	
MCNL	0.72	250	eP	46	46.15	-0.9
			eS	46	56.86	
HOM	0.74	72	eP	46	46.81	-0.5
			eS	46	59.14	
SYI	0.89	158	iP	46	47.98	-1.0
			eS	47	01.02	
CNPM	0.92	83	eP	46	48.69	-0.8
			eS	47	02.76	
RED	1.00	7	eP	46	49.71	-0.8
RS2	1.04	7	eP	46	50.50	-0.7
RSO	1.04	7	eP	46	50.34	-0.8
NNL	1.07	54	iP	46	51.61	0.3
REF	1.07	9	eP	46	50.69	-0.9
RDN	1.09	7	eP	46	50.93	-0.8
			eS	47	05.07	
NCT	1.13	2	eP	46	50.67	-1.6
BRLK	1.14	72	eP	46	51.47	-0.7
RDT	1.19	15	iP	46	51.79	-1.1
			eS	47	07.65	
NKA	1.59	33	eP	46	58.61	0.5
SLKM	1.78	51	eP	47	00.04	-0.6
CKL	1.80	11	eP	47	00.26	-0.9
SPU	1.82	15	eP	47	00.28	-1.0
BGL	1.86	9	eP	47	01.24	-0.7
CRP	1.89	13	eP	47	00.63	-1.8
SEW	1.93	68	eP	47	01.53	-1.2
CGLM	1.95	15	eP	47	02.14	-1.0
NCG	2.02	12	eP	47	03.31	-0.8
SUA	2.33	28	eP	47	07.63	-0.8
PMS	2.51	42	eP	47	09.04	-1.7
SKT	2.66	15	eP	47	10.29	-2.6
LTI	2.69	75	eP	47	10.65	-2.6
PWA	2.72	34	eP	47	12.64	-0.9
MTU	2.78	76	eP	47	12.52	-2.0
KNIM	2.82	69	eP	47	11.57	-3.5
KNK	3.01	47	eP	47	14.94	-2.8
GHO	3.10	39	eP	47	13.16	-5.8

39 obs. associated

& JAN 11, 1991 06h 48m 06.49s
58.224 N 143.468 W
DEPTH = 10.0km (geophysicist)
GULF OF ALASKA (15)
<AEIC>.

MID	1.92	310	eP	48	34.66	-4.8
			eS	48	56.54	
YAH	2.32	22	eP	48	40.35	-5.2
			eS	49	06.92	
TGL	2.56	7	eP	48	43.34	-5.5
			eS	49	12.54	
MTU	2.79	311	eP	48	46.54	-5.5
BALM	2.88	11	eP	48	47.92	-5.4
			eS	49	20.03	
LTI	2.90	311	iP	48	48.02	-5.5
CTGM	2.96	21	eP	48	48.75	-5.7
			eS	49	23.00	
KNIM	3.06	316	eP	48	49.94	-5.8
GLB	3.23	357	iP	48	52.79	-5.5
VZW	3.25	332	iP	48	53.00	-5.5
VLZ	3.26	335	eP	48	52.76	-5.8
KLU	3.50	340	iP	48	56.60	-5.6
TZL	3.96	347	eP	49	03.30	-5.2
KNK	4.07	324	eP	49	04.94	-5.2
TOA	4.12	342	eP	49	05.90	-5.0
SLKM	4.15	306	eP	49	04.34	-6.9
PLRM	4.42	322	eP	49	09.88	-5.2
GHO	4.49	325	eP	49	10.79	-5.4
RDT	5.14	301	eP	49	19.12	-6.2
SPU	5.26	308	eP	49	20.65	-6.4
RDN	5.28	300	eP	49	21.63	-5.8
CGLM	5.31	309	eP	49	21.69	-6.1
CUT	5.38	324	eP	49	23.68	-5.1
CKL	5.39	307	eP	49	22.87	-6.1
NCG	5.42	310	eP	49	22.80	-6.6
BGL	5.44	308	eP	49	23.91	-5.8

26 obs. assaciated

JAN 11, 1991 06h 56m 11.65± 0.94s
46.117 N ± 8.3km 14.371 E ± 7.7km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MD 2.9 (LJU), 2.7 (TRI). ML 2.7
(VIE). Felt (IV) at Ljubljona.

LJU	0.13	123	iPgc	56	15.10	0.2
			iSg	56	17.50	
VOY	0.34	256	iPgd	56	18.20	-0.6
			eSg	56	23.50	
CEY	0.38	174	iPgd	56	19.50	0.0
			iSg	56	25.40	
TRI	0.59	226	iPgc	56	22.60	-0.9
			iSg	56	32.40	
RIY	0.77	179	iPgc	56	26.20	-0.5
			iSg	56	43.10	
VBY	0.87	134	iPgd	56	28.70	0.3
			iSg	56	41.30	
KBA	1.19	324	iPgd	56	32.40	-1.6
			ic	56	32.60	
			iSg	56	47.30	
FVI	1.20	294	P	56	35.00	1.0
			eSn	56	58.00	
CTI	1.89	269	P	56	46.50	2.1
			eSn	57	14.00	
SQTA	2.44	298	iPgc	56	57.00	4.7X
			iSg	57	30.30	

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

JAN 11, 1991 06h 57m 30.06± 0.71s
5.741 N ± 4.2km 125.432 E ± 7.6km
DEPTH = 182.5 ± 7.0 km
4.9mb (9 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

MNI	4.31	188	iPc	58	35.70	-0.1
	1.5s		7660.20nm			
MAP	4.77	343	iPc	58	42.00	0.2
MTN	19.31	163	iPd	01	43.10	-0.4
	0.3s		34.00nm		5.3mb	
KNA	21.61	171	eP	02	05.80	0.4
WRA	26.99	161	P	03	05.00	8.1X
	0.4s		4.40nm		4.5mb	
MBL	27.29	191	eP	02	58.50	-1.1
CHTO	28.90	299	P	03	14.20	0.1
ASPA	30.38	165	eP	03	26.20	-0.9
	0.2s		7.70nm		5.1mb	
			iPcP	06	21.90	
			iS	08	12.40	
WARB	31.76	178	iPc	03	39.60	0.6
	0.3s		7.00nm		4.8mb	
MRWA	35.92	194	iPd	04	14.50	-0.1
	0.4s		8.00nm		4.7mb	
BAL	37.09	193	iPc	04	24.50	0.1
SHL	37.66	305	eP	04	29.50	0.0
KLB	37.84	191	iPd	04	30.60	-0.1
MUN	38.53	193	eP	04	36.60	0.2
NWAO	39.24	191	iPd	04	43.00	0.8
	0.3s		16.00nm		5.1mb	
ADE	42.38	164	iPd	05	09.00	1.0
	0.5s		28.17nm		5.1mb	
GUN	43.51	305	P	05	17.80	0.1
	0.6s		17.00nm		4.8mb	
PKI	43.76	304	P	05	20.00	0.3
KKN	43.95	305	P	05	20.20	-0.9
DMN	44.03	304	P	05	22.20	0.4
GKN	44.56	305	P	05	25.80	0.0
HYB	47.24	288	eP	05	47.00	0.1
KOD	47.67	279	eP	05	50.40	-0.2
GBA	47.88	283	P	05	51.90	0.1
FBA	83.47	25	(P)	09	38.00	-0.1
INK	88.78	21	eP	10	03.50	-0.4
MBC	90.28	13	eP	10	11.50	0.7
YKA	98.21	24	eP	10	46.70	-0.5
	0.5s		0.60nm		4.3mb	

S.D. = 0.5 on 27 of 28 obs.

& JAN 11, 1991 07h 22m 20.93s
63.973 N 148.915 W

DEPTH = 127.3km
CENTRAL ALASKA (1)
<AEIC>.

MCK	0.24	182	iP	22	38.67	1.7
			eS	22	51.78	
BWN	0.31	310	iP	22	38.80	1.6
			eS	22	51.62	
RND	0.57	177	eP	22	39.52	-1.0
NEA	0.61	353	iP	22	40.18	-0.5
			eS	22	54.54	
CCB	0.83	35	iP	22	41.87	-0.5
			eS	22	57.28	
HDA	0.96	62	eP	22	42.98	-0.6
			eS	23	00.16	
MDM	1.03	16	iP	22	43.71	-0.5
FBA	1.05	27	iP	22	43.81	-0.6
HUR	1.05	198	eP	22	43.79	-0.6
			eS	23	01.35	
DDM	1.36	96	eP	22	47.61	-0.1
			eS	23	07.46	
THY	1.52	110	eP	22	48.93	-0.5
CUT	1.69	202	iP	22	50.69	-0.7
PAX	1.85	121	eP	22	52.49	-0.9
			eS	23	16.75	
SDG	2.11	132	eP	22	55.26	-1.3
GHO	2.21	180	eP	22	56.48	-1.4
TOA	2.25	145	eP	22	58.28	-0.2
SKT	2.33	212	eP	22	57.90	-1.5
PWA	2.37	191	eP	22	59.25	-0.6
PLRM	2.39	182	eP	22	59.06	-1.1
KNK	2.58	175	eP	23	01.40	-1.2
PMS	2.76	187	eP	23	04.22	-0.7
KLU	2.85	150	eP	23	04.74	-1.4
NCG	2.98	212	eP	23	06.99	-0.9
VLZ	3.09	156	eP	23	06.80	-2.5
SPU	3.16	209	eP	23	08.92	-1.3
BGL	3.16	212	eP	23	09.85	-0.4
CKL	3.21	211	eP	23	10.20	-0.7
GLI	3.22	164	eP	23	09.06	-1.9
NKA	3.42	200	eP	23	14.13	0.5
SLKM	3.53	191	eP	23	13.59	-1.6
KNIM	3.68	171	eP	23	14.47	-2.7
RDT	3.78	207	eP	23	17.12	-1.4
SEW	3.89	184	eP	23	17.86	-2.1
LTI	3.98	172	eP	23	18.68	-2.5

34 obs. associated

JAN 11, 1991 08h 04m 25.84± 0.71s
38.847 N ± 5.9km 27.768 E ± 9.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.9 (ISK).

IZM	0.60	222	ePg	04	39.00	1.0
			eSg	04	48.00	
DST	1.01	41	iPn	04	43.70	-1.3
CIN	1.27	169	eP	04	48.00	-1.4
KHL	1.47	110	ePn	04	53.00	0.5
KCT	1.47	18	ePn	04	52.50	0.1
EDC	1.50	3	ePn	04	53.00	0.2
BNT	1.51	4	ePn	04	52.70	-0.3
KGT	1.64	348	iPn	04	53.60	-1.2
IZI	1.99	41	ePn	05	01.00	1.1
YLV	2.12	35	ePn	05	03.00	1.2

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

? JAN 11, 1991 08h 26m 47.74± 2.65s
4.818 N ±26.3km 76.131 W ±27.4km
DEPTH = 110.0km (geophysicist)
COLOMBIA (103)
MD 3.5 (UVC).

HOBC	0.46	181	iPc	27	04.77	0.1
			eS	27	17.00	
BUGC	0.93	188	eP	27	08.63	0.0
			eS	27	24.00	
CLMC	1.03	205	eP	27	09.87	0.2
HOOC	1.43	201	eP	27	14.25	-0.1
ANCC	1.49	210	eP	27	14.80	0.0
DIAC	1.52	182	eP	27	14.76	-0.6
			eS	27	34.50	
SALC	1.92	197	eP	27	20.15	-0.2
SILC	2.13	186	eP	27	22.95	-0.3
PURC	2.49	185	eP	27	29.10	0.9

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

? JAN 11, 1991 08h 38m 37.29± 7.38s
49.236 N ±40.4km 0.072 E ±36.1km
DEPTH = 5.0km (geophysicist)
FRANCE (538)
ML 2.4 (LDG).

FLN	0.60	218	Pg	38 49.20	-0.1
			Sg	39 03.00	
LDF	0.66	191	Pg	38 50.40	0.0
			Sg	39 04.40	
GRR	1.05	216	Pg	38 57.60	0.1
			Sg	39 15.80	
LPF	1.41	212	Pg	39 03.60	-0.1
			Sg	39 27.00	

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

% JAN 11, 1991 09h 08m 48.65± 1.02s
4.106 N ±11.5km 76.329 W ±16.0km
DEPTH = 33.0km (normal)
COLOMBIA (103)
MD 2.2 (UVC).

BUGC	0.22	161	ePc	08 55.50	-0.1
			S	08 59.20	
HOBC	0.31	38	eP	08 56.71	0.0
			eS	09 01.50	
CLMC	0.32	226	iPc	08 57.17	0.3
			eS	09 02.20	
HOOC	0.70	206	eP	09 01.96	-0.4
DIAC	0.82	171	eP	09 04.22	0.3
			eS	09 14.50	

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

JAN 11, 1991 09h 33m 21.54± 0.77s
42.415 N ± 5.3km 19.113 E ± 4.7km
DEPTH = 20.2 ± 12.9 km
YUGOSLAVIA (383)
ML 2.3 (TTG).

TTG	0.11	82	iPgd	33 25.67	0.0
			iSg	33 28.93	
BDV	0.25	238	iPgc	33 27.57	0.1
			iSg	33 32.50	
NKY	0.41	348	iPgd	33 29.70	-0.4
			iSg	33 36.32	
HCY	0.46	274	iPgc	33 30.78	0.0
			iSg	33 38.47	
ULC	0.46	167	iPgc	33 30.88	-0.1
			iSg	33 38.48	
BRY	0.64	319	iPgd	33 34.18	0.1
			iSg	33 44.10	
PVY	0.66	74	iPgc	33 34.30	-0.1
			iSg	33 44.23	
IVA	0.74	51	iPgd	33 35.68	0.0
			iSg	33 46.82	
PLE	0.94	13	iPgd	33 39.27	0.2
			iSg	33 53.53	

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

JAN 11, 1991 10h 00m 50.56± 0.80s
39.348 N ± 6.7km 23.641 E ± 8.9km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
ML 2.9 (ATH).

NEO	0.33	263	iPgd	00 56.70	-0.6
PLG	1.04	352	iPbc	01 10.60	0.5
			eSb	01 25.30	
ATH	1.37	177	ePb	01 16.20	0.5
KZN	1.73	304	ePg	01 24.00	3.1X
VAY	2.13	338	ePn	01 26.70	0.0
MMB	2.24	2	iPd	01 28.00	-0.3
RDO	2.31	38	ePg	01 40.00	10.8X
RZN	2.48	19	eP	01 32.00	0.2
KDZ	2.67	30	eP	01 33.00	-1.4
KGT	3.03	67	ePn	01 45.90	6.5X
VTS	3.26	354	eP	01 44.00	1.2
PVL	4.07	18	eP	01 54.00	-0.1

S.D. = 0.8 on 9 of 12 obs.

% JAN 11, 1991 10h 14m 39.01± 0.90s
39.126 N ± 7.4km 27.604 E ±12.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

IZM	0.77	200	ePg	14 54.10	0.0
			eSg	15 05.60	
DST	0.93	59	iPn	14 57.00	0.2
BNT	1.25	11	ePn	15 02.40	0.1
KCT	1.26	27	ePn	15 02.00	-0.5
KGT	1.34	350	iPn	15 03.90	0.2

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

JAN 11, 1991 10h 15m 23.41± 0.52s
18.904 S ± 4.5km 178.844 W ± 4.6km
DEPTH = 501.9 ± 6.5 km
5.3mb (40 obs.)
FIJI ISLANDS REGION (181)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 30C
Centroid Location:
Origin Time 10:15:32.6 0.9
Lat 18.62S 0.10 Lon 178.80W 0.06
Dep 526.4 3.4 Half-duration 4.0
Moment Tensor; Scale 10**17 Nm
Mrr= 0.04 0.04 Mtt= 1.12 0.08
Mff=-1.16 0.07 Mrt=-0.14 0.07
Mrf=-0.12 0.06 Mtf=-0.65 0.06
Principal Axes:
T Val= 1.30 Plg= 4 Azm=195
N 0.05 82 69
P -1.35 6 285
Best Double Couple:Mo=1.3*10**17
NP1:Strike=330 Dip=82 Slip= -1
NP2: 60 89 -172

SVA	2.68	287	iPd	16 34.80	1.8
			eS	17 32.00	
VUN	2.71	289	iPd	16 34.20	0.9
			iS	17 31.20	
MBU	3.01	309	iPd	16 36.80	1.5
AFI	8.40	55	eP	17 20.00	-5.3X
			eS	18 52.00	
PVC	12.25	273	iPd	18 06.50	0.8
BKM	12.33	274	iPd	18 07.50	1.0
DZM	14.14	255	iPd	18 26.80	1.5
			iS	20 54.40	
HBZ	18.79	187	P	19 11.00	-0.1
	0.6s	89.00nm		5.6mb	
PUZ	19.27	187	P	19 15.80	0.1
WLZ	19.48	193	Pc	19 20.60	2.8
TAZ	19.68	191	P	19 20.90	1.3
UTU	19.69	192	eP	19 23.10	3.4X
NOZ	19.83	187	P	19 20.40	-0.6
WHH	20.32	191	P	19 25.20	-0.5
MOH	20.45	189	eP	19 27.80	0.9
NGZ	20.77	192	eP	19 29.70	-0.3
CNZ	20.80	192	P	19 30.40	0.2
PGZ	22.04	190	P	19 40.30	-1.2
	0.7s	167.00nm		5.8mb	
MNG	22.18	191	P	19 41.10	-1.7
	0.7s	89.00nm		5.5mb	
KIW	22.53	192	P	19 45.70	-0.3
HNR	22.59	292	eP	19 45.00	-1.7
MTW	22.70	191	P	19 45.80	-1.7
CAW	22.74	192	P	19 46.70	-1.1
SVO	22.84	292	eP	19 49.00	0.1
			e(S)	22 59.00	
VSG	22.88	292	eP	19 47.00	-2.3
WDW	22.91	192	P	19 48.10	-1.2
BLW	22.91	191	P	19 48.40	-1.0
MRW	22.93	193	P	19 48.40	-1.1
WEL	22.97	192	P	19 50.00	0.1
	1.0s	********nm		8.0mb X	
TCW	23.00	193	P	19 49.30	-0.9
CCW	23.53	193	eP	19 54.70	-0.3
THZ	23.85	195	P	19 57.00	-0.9
KHZ	24.31	194	P	20 00.80	-1.2
	0.7s	262.00nm		5.9mb	
			e	21 25.70	
LTZ	24.97	196	P	20 06.60	-1.4
MOZ	25.74	194	P	20 13.60	-1.1
AFR	27.63	92	iP	20 31.30	-0.3
	1.1s	145.00nm		5.4mb	
PAE	27.80	92	iP	20 32.80	-0.3
	1.1s	130.00nm		5.4mb	
PPT	27.82	92	iP	20 33.00	-0.2
	1.1s	195.00nm		5.6mb	
MMCZ	27.89	198	P	20 33.00	-0.7
			e	21 57.80	
MHZ	27.90	198	P	20 32.80	-1.0
PPN	27.96	92	iP	20 34.00	-0.4
	1.1s	90.00nm		5.2mb	
TVO	28.10	93	iP	20 35.50	-0.2
	1.1s	115.00nm		5.3mb	
COO	28.92	241	iPd	20 44.00	1.2
	0.6s	74.00nm		5.4mb	
PMO	29.83	87	iP	20 50.70	0.0
	1.1s	80.00nm		5.2mb	
VAH	30.04	88	iP	20 52.10	-0.4
	1.1s	90.00nm		5.2mb	
TPT	30.10	87	iP	20 52.90	-0.1
	1.1s	90.00nm		5.2mb	
RUV	30.28	88	iP	20 54.40	-0.2
	1.1s	130.00nm		5.4mb	
RMO	30.77	250	iPd	21 00.80	2.1
	0.5s	43.00nm		5.2mb	
			e	22 30.00	527kmX
CNB	32.50	233	eP	21 15.00	1.6
CMS	34.18	242	iPd	21 28.90	1.4
	0.9s	161.00nm		5.6mb	
PMG	34.24	281	iPd	21 27.80	-0.2
	0.9s	571.43nm		6.1mb	
TOO	36.23	232	iPc	21 45.70	1.3
QIS	39.07	260	iPd	22 07.10	-0.8
ADE	40.76	238	eP	22 22.60	1.1
RKT	41.06	104	iP	22 24.80	0.9
	1.0s	85.00nm		5.2mb	
WRA	44.05	261	P	22 46.00	-1.7
	0.6s	102.70nm		5.5mb	
ASPA	44.13	255	iPd	22 47.80	-0.5
	0.6s	595.90nm		6.3mb	X
Z	19s	0.20um		4.1Msz	
		iS		28 41.30	
		iScS		31 51.80	
GUA	48.11	309	e(P)	23 17.80	-1.0
	0.8s	644.78nm		6.1mb	
PJG	48.18	309	e(P)	23 16.60	-2.7
MTN	48.37	269	eP	23 19.30	-1.6
	0.3s	31.00nm		5.2mb	
FORR	49.18	245	iPd	23 26.40	-0.3
	0.4s	86.00nm		5.5mb	
KNA	49.97	265	iPd	23 31.80	-0.9
	0.4s	81.00nm		5.5mb	
WARB	50.57	251	iPd	23 37.00	-0.1
	0.4s	53.00nm		5.3mb	
COOL	55.16	245	eP	24 09.00	-1.0
MBL	57.34	257	iPd	24 24.30	-0.9
	0.3s	24.00nm		5.0mb	
MEKA	57.78	250	iPd	24 27.20	-0.9
	0.4s	18.00nm		4.8mb	
KLB	58.02	244	eP	24 29.00	-0.7
NWAO	58.38	243	eP	24 32.00	-0.2
	0.6s	13.00nm		4.5mb	
BAL	58.99	245	eP	24 35.70	-0.6
MUN	59.31	244	eP	24 38.50	0.1
SBA	59.40	184	iPd	24 41.80	3.4X
VNDA	59.42	185	iPc	24 40.50	2.0
MRWA	59.73	247	eP	24 40.50	-0.8
	0.6s	10.00nm		4.4mb	
KAKJ	67.13	325	eP	25 26.80	-1.4
CHJJ	67.66	324	P	25 30.20	-1.3
IIDJ	67.87	323	P	25 31.50	-1.3
MAT	68.46	324	iPd	25 34.70	-1.6
	0.7s	15.75nm		4.7mb	
OFUJ	68.50	328	P	25 35.20	-1.3
YAMJ	68.66	326	P	25 36.80	-0.7
MTMJ	68.72	324	P	25 36.70	-1.3
TSRJ	69.02	322	eP	25 39.00	-0.7
SPA	71.21	180	iPd	25 54.60	2.1
	1.2s	70.42nm		5.1mb	
QZH	74.87	303	eP	26 13.50	-0.2
GCC	77.22	43	eP	26 26.80	0.4
PRS	77.23	44	eP	26 27.20	0.7
SAO	77.43	44	eP	26 27.50	0.0
BRK	77.54	43	eP	26 28.30	0.2
BKS	77.56	43	eP	26 28.60	0.4
	1.0s	43.00nm		4.0mb	
NJ2	78.25	310	Pc	26 32.00	0.0
	1.0s	100.00nm		5.2mb	
FRI	78.70	44	eP	26 34.20	-0.1
MDJ	78.76	325	iPd	26 34.40	0.0
	1.0s	50.00nm		4.9mb	
CMB	78.84	43	ePc	26 34.90	-0.2
WDC	78.97	40	ePc	26 35.60	0.0
ORV	79.01	42	eP	26 35.50	-0.4
MIN	79.40	41	eP	26 37.80	-0.3
CN2	80.55	323	Pd	26 43.80	0.0
	1.0s	30.00nm		4.7mb	

11d 10h

		eS	36	11.00		
WHN	80.86	307 Pc	26	48.20	2.5	
TNP	80.95	45 P	26	45.70	-0.6	
		e	28	50.40	586kmX	
IPM	82.17	278 ePd	26	53.80	1.1	
	0.8s	78.10nm			5.3mb	
MAW	82.79	200 eP	26	56.50	1.7	
PMR	83.66	14 P	26	57.70	-1.4	
		e	29	55.20		
BJI	84.20	316 eP	27	02.00	-0.3	
	1.2s	54.00nm			5.1mb	
GYA	85.17	300 P	27	08.00	0.5	
TIY	85.62	312 Pd	27	10.50	1.1	
	1.0s	100.00nm			5.5mb	
PNT	85.79	34 eP	27	09.00	-0.8	
	0.9s	10.00nm			4.5mb	
XAN	86.53	308 P	27	14.50	0.7	
FBA	86.86	13 P	27	13.00	-1.6	
		pP	29	05.40	505kmX	
CHG	88.95	290 iPd	27	26.90	1.6	
	1.0s	27.50nm			5.0mb	
CD2	89.26	303 P	27	27.60	1.0	
SES	91.06	36 eP	27	34.00	-0.4	
LZH	91.17	308 eP	27	34.00	-1.4	
	1.5s	42.00nm			5.2mb	
INK	92.95	15 eP	27	41.00	-1.7	
MAIO	126.25	302 ePKP	33	29.00	-1.2	
SHBJ	144.73	299 PKPd	34	05.74	1.4	
LWI	145.64	235 iPKPc	34	09.70	3.1X	
BBTK	145.72	314 ePKP	34	05.00	-0.8	
CSTJ	145.74	298 PKPd	34	08.46	2.4	
KSP	145.94	343 iPKP	34	07.20	1.5	
		e	34	14.00		
		e	35	25.70		
MDSJ	145.98	299 PKPd	34	09.17	2.7	
JARJ	146.08	300 PKPd	34	09.31	2.7	
GHZJ	146.14	297 PKPc	34	09.26	2.5	
BURJ	146.20	300 PKPd	34	09.69	2.9X	
CLL	146.33	347 iPKP	34	08.20	1.9	
	1.4s	27.00nm				
SALJ	146.36	300 PKPd	34	10.09	3.1X	
MASJ	146.40	299 PKPc	34	10.17	3.1X	
MLR	146.46	328 ePKP	34	12.50	5.6X	
MKRJ	146.50	299 PKPc	34	10.03	2.7	
LISJ	146.71	298 PKPd	34	11.16	3.7X	
DSI	146.71	299 iPKPd	34	10.00	2.5	
MOX	147.25	348 ePKP	34	11.00	3.2X	
RMN	147.59	297 iPKPd	34	12.30	3.2X	
SRO	147.95	338 e(PKP)	34	12.00	3.0X	
ZST	148.04	340 ePKP	34	12.80	3.7X	
KHC	148.23	344 ePKP	34	11.80	2.4	
		e	34	41.00		
VOY	150.97	342 e(PKP)	34	19.50	5.7X	
VBY	151.01	339 i(PKP)	34	20.60	6.9X	
VAY	151.13	325 ePKP	34	19.40	5.4X	
SKO	151.25	327 ePKP	34	20.00	5.8X	
OHR	152.21	327 ePKP	34	22.00	6.3X	
S.D. = 1.3 on 121 of 139 obs.						

JAN 11, 1991 10h 49m 58.51± 1.67s
21.967 N ± 8.3km 142.819 E ± 6.8km
DEPTH = 251.8 ± 14.8 km
4.5mb (13 obs.)
MARIANA ISLANDS REGION (215)

KAKJ	14.37	351 P	53	12.70	0.4	
		eS	55	46.50		
CHJJ	14.42	347 eP	53	11.90	-1.0	
		eS	55	42.50		
MAT	15.07	346 eP	53	21.00	0.3	
	0.6s	5.33nm			4.1mb	
		(S)	56	00.00		
NIIJ	15.58	349 P	53	26.40	-0.4	
YAMJ	16.33	352 P	53	36.30	0.8	
OFUJ	17.09	357 P	53	44.00	0.4	
SSE	21.35	300 e(P)	54	07.60	-19.1X	
DL2	24.78	318 eP	55	00.50	1.4	
	1.0s	18.00nm			4.6mb	
SNY	25.56	325 Pc	55	05.40	-0.8	
GTA	40.44	305 Pc	57	18.00	3.8X	
	0.6s	10.00nm			4.4mb	
CHTO	41.14	274 P	57	21.00	0.9	
WRA	42.47	192 P	57	30.00	-0.7	
	0.7s	17.10nm			4.5mb	
ASPA	46.18	191 iPc	57	59.50	-0.7	
	0.5s	11.00nm			4.4mb	
WMO	50.15	309 P	58	31.40	0.8	
GUN	51.59	289 P	58	42.20	0.3	
	0.6s	28.00nm			4.8mb	
PKI	52.04	288 P	58	45.00	-0.2	
	0.6s	18.00nm			4.7mb	
KKN	52.13	289 P	58	45.50	-0.2	
DMN	52.31	289 P	58	47.14	0.1	
GKN	52.67	289 P	58	49.52	-0.1	
	0.8s	62.00nm			5.1mb	
HYB	60.30	278 eP	59	43.40	0.0	
FBA	61.59	27 P	59	50.00	-1.2	
GBA	62.43	274 P	59	57.20	-0.3	
KOD	63.47	271 eP	00	05.00	0.3	
POO	64.31	281 eP	00	10.00	0.3	
INK	67.46	24 eP	00	28.00	-0.8	
MBC	70.68	15 ePc	00	48.00	-0.3	
	0.5s	2.00nm			4.1mb	
YKA	76.38	28 eP	01	20.30	-0.9	
	0.5s	3.10nm			4.3mb	
PRS	81.75	54 eP	01	51.40	0.8	
CMB	81.87	52 eP	01	51.50	0.3	
LLA	81.97	54 e(P)	01	52.30	0.6	
PRI	82.35	54 e(P)	01	55.00	1.2	
FRI	82.75	53 eP	01	56.30	0.6	
SES	83.07	38 eP	01	57.00	-0.1	
TNP	84.16	51 P	02	03.00	0.0	
LRM	84.22	43 ePc	02	03.50	0.3	
FFC	85.78	32 iPc	02	10.60	0.2	
	0.6s	8.00nm			4.7mb	
HFS	88.35	337 eP	02	20.70	-2.0	
	0.5s	6.50nm			4.8mb	
NB2	88.57	339 P	02	22.40	-1.4	
	0.8s	4.50nm			4.4mb	
FRB	91.11	13 eP	02	35.00	-0.4	
CDR	103.72	329 ePdiff	03	50.00	17.3X	
		e	03	56.00		
ZOBO	150.25	84 PKP	09	17.00	0.0	
		i	09	23.00		
LPB	150.35	85 PKP	09	23.00	6.1X	
CNCB	150.53	85 PKP	09	19.00	1.6	
		i	09	24.00		
S.D. = 0.8 on 39 of 43 obs.						

? JAN 11, 1991 11h 05m 00.10± 5.62s
15.635 N ±30.5km 60.930 W ±42.6km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)
ML 2.5 (FDF).

BBL	0.54	258 ePd	05	11.35	0.0	
		S	05	16.50		
SFG	0.67	337 ePd	05	12.92	-0.1	
DEG	0.69	350 ePd	05	13.35	0.0	
		S	05	21.00		
PAG	0.82	299 eP	05	15.13	-0.2	
		S	05	24.00		
SEG	0.94	324 eP	05	17.25	0.3	
		S	05	27.10		
S.D. = 0.2 on 5 of 5 obs.						

? JAN 11, 1991 11h 08m 56.97± 0.92s
44.319 N ± 9.2km 7.377 E ± 8.0km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.4 (GEN).

STV	0.08	207 P	08	59.62	0.0	
		S	09	01.36		
ENR	0.10	161 P	08	59.70	0.0	
		S	09	01.41		
PZZ	0.27	313 P	09	02.74	0.0	
		S	09	06.90		
ROB	0.36	94 P	09	04.34	0.0	
		S	09	09.28		
S.D. = 0.1 on 4 of 4 obs.						

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* JAN 11, 1991 11h 54m 49.70± 1.41s
15.645 S ±10.8km 174.942 W ±10.5km
DEPTH = 234.4 ± 13.4 km
5.0mb (8 obs.)
TONGA ISLANDS (173)

AFI	3.51	61 iPd	55	48.00	0.4	
		eS	55	55.00		
DZM	18.73	247 iPc	58	55.10	1.7	
PUZ	23.13	194 eP	59	38.30	1.8	
WLZ	23.64	199 P	59	43.50	2.3	
NOZ	23.70	194 P	59	43.30	1.5	
HNR	25.26	281 eP	59	58.00	1.6	
SVO	25.47	282 eP	59	59.00	0.7	
VSG	25.54	281 P	59	59.00	0.1	
LTZ	29.18	200 eP	00	28.70	-2.7	
MHZ	32.21	201 P	00	55.80	-2.1	
MMCZ	32.21	201 P	00	55.90	-2.0	
PMG	37.48	275 eP	01	43.00	0.3	
TOO	41.16	230 iPc	02	13.20	0.3	
QIS	43.37	257 eP	02	30.00	-1.0	
WRA	48.34	257 P	03	08.00	-1.9	
	0.7s	54.60nm			5.0mb	
ASPA	48.62	252 eP	03	10.70	-1.4	
	0.7s	404.90nm			5.9mb	
		eS	09	50.80		
FORR	53.95	243 iPd	03	50.30	-1.4	
	0.4s	65.00nm			5.5mb	
WAR8	55.18	249 iPd	03	59.50	-1.2	
	0.4s	19.00nm			5.0mb	
MBL	61.77	254 iPc	04	44.90	-1.2	
	0.3s	7.00nm			4.8mb	
ANM	80.30	4 eP	06	34.10	-1.3	
PNT	81.02	33 eP	06	39.00	-0.5	
ALQ	82.10	50 eP	06	44.00	-1.7	
	1.0s	8.00nm			4.4mb	
FBA	82.92	11 eP	06	46.40	-2.6	
BJI	84.56	314 eP	06	57.50	-0.2	
	1.1s	21.00nm			4.8mb	
SES	86.25	35 eP	07	04.00	-1.9	
TIY	86.28	311 Pd	07	07.10	0.8	
GYA	86.85	298 P	07	09.60	0.2	
XAN	87.57	306 P	07	12.00	-0.6	
CD2	90.67	302 eP	07	27.50	0.3	
YKA	90.92	24 eP	07	25.70	-1.8	
	0.7s	0.50nm			3.6mb	X
CHG	91.38	289 iPd	07	31.10	0.5	
	0.9s	18.49nm			5.1mb	
MOX	144.69	353 ePKP	13	58.00	-1.8	
PRU	144.89	349 PKPd	13	58.00	-2.1	
	1.1s	16.80nm				
MLR	145.45	334 ePKPc	14	04.00	2.6	
GRF	145.67	353 ePKPd	14	01.20	-0.3	
KHC	145.89	350 ePKP	14	01.20	-0.7	
ZST	146.06	346 e(PKP)	14	02.20	0.1	
FLN	146.66	7 ePKP	14	02.80	-0.3	
	0.6s	9.00nm				
LDF	146.87	6 ePKP	14	03.60	0.2	
	0.6s	7.20nm				
CDF	147.27	357 ePKP	14	04.20	0.0	
	0.8s	9.40nm				
LPF	147.32	8 ePKP	14	04.30	0.2	
	0.5s	10.20nm				
HAU	147.71	358 ePKP	14	05.30	0.4	
	0.8s	10.75nm				
BSF	147.87	358 ePKP	14	05.40	0.2	
LOR	148.45	2 ePKP	14	07.40	1.4	
	1.0s	13.00nm				
SSF	148.65	2 ePKP	14	08.10	1.8	
	1.0s	14.00nm				
LBF	148.74	1 ePKP	14	08.10	1.6	
	0.7s	5.50nm				
AVF	148.92	2 ePKP	14	08.30	1.6	
	0.8s	4.70nm				
VBY	149.02	346 ePKP	14	11.00	4.0X	
BGF	149.13	3 ePKP	14	09.10	2.0	
	0.8s	8.05nm				
MBH	149.22	302 ePKP	14	11.00	3.1X	
LSF	149.35	5 ePKP	14	09.30	1.8	
TCF	149.36	4 ePKP	14	09.60	2.1	
MAF	149.45	3 ePKP	14	10.00	2.4	
LPL	150.19	358 ePKP	14	12.80	3.8X	
	0.9s	8.20nm				
LPG	150.21	358 ePKP	14	12.90	3.8X	
	0.9s	9.85nm				
OHR	151.19	335 ePKP	14	15.00	4.6X	
BCAO	162.69	231 iPKPd	14	25.20	0.0	
	0.6s	8.00nm				
		ic	15	16.70		
S.D. = 1.5 on 52 of 57 obs.						

JAN 11, 1991 13h 03m 02.05± 0.28s
5.456 S ± 5.6km 151.945 E ± 4.9km
DEPTH = 33.0km (normal)
5.0mb (11 obs.)
NEW BRITAIN REGION (192)

PMG	6.16	230 eP	04	35.00	1.8	
VSG	8.58	117 eP	05	07.00	0.0	

		eS	06 46.00		
SVO	8.62	116 eP	05 07.00	-0.6	
		eS	06 43.00		
HNR	8.86	117 P	05 11.00	0.1	
		S	06 53.00		
QIS	19.21	217 eP	07 26.00	-0.2	
RMQ	21.14	188 iPc	07 47.70	1.1	
MTN	21.81	249 eP	07 54.00	0.6	
KNA	24.94	244 eP	08 24.00	0.0	
ASPA	25.10	222 eP	08 23.20	-2.3	
	0.8s	37.80nm	5.0mb		
Z	20s	0.30um	3.8Msz		
		iS	12 49.60		
MBL	34.82	240 eP	09 52.00	-0.2	
SSE	46.74	323 eP	11 32.00	2.0	
Z	20s	0.46um	4.4Msz		
XAN	56.51	317 P	12 43.20	-0.5	
CHG	57.51	296 eP	12 51.10	0.2	
CD2	58.52	311 P	12 57.80	-0.1	
BTO	59.82	324 eP	13 07.00	0.2	
LZH	61.11	316 eP	13 15.00	-0.7	
	1.5s	23.00nm	5.1mb		
GTA	65.56	318 eP	13 45.40	0.4	
	0.8s	4.00nm	4.6mb		
SHL	65.91	301 eP	13 47.00	-0.5	
GUN	71.73	302 P	14 23.28	-0.5	
	0.9s	27.00nm	5.3mb		
PKI	72.04	301 P	14 24.42	-1.2	
	1.2s	22.00nm	5.0mb		
KKN	72.21	301 P	14 25.72	-0.7	
	0.9s	19.00nm	5.1mb		
DMN	72.31	301 P	14 26.68	-0.4	
	0.9s	45.00nm	5.4mb		
GKN	72.81	301 P	14 29.36	-0.6	
	1.1s	40.00nm	5.3mb		
WMQ	75.65	318 P	14 46.00	0.1	
GBA	76.32	285 Pc	14 50.50	0.4	
	1.1s	8.20nm	4.7mb		
ANM	76.65	18 eP	14 52.00	0.9	
SVW	77.75	23 eP	14 58.30	1.1	
TTA	78.69	22 eP	15 03.10	0.7	
PMR	80.63	25 eP	15 12.60	-0.1	
IMA	81.36	20 eP	15 17.00	0.3	
FBA	82.81	22 eP	15 23.20	-0.9	
	0.8s	8.10nm	4.9mb		
INK	89.37	21 eP	15 56.00	-0.3	
YKA	96.40	28 eP	16 28.70	0.0	
	0.8s	1.20nm	4.4mb		
TIO	148.00	325 iPKP	22 47.00	3.7X	
KIC	156.79	273 PKP	23 10.70	14.5X	
	S.D. = 0.9	on 33 of 35 obs.			

JAN 11, 1991 13h 20m 04.52± 0.73s
42.358 N ± 6.8km 24.126 E ± 7.5km
DEPTH = 10.0km (geophysicist)
BULGARIA (359)
MD 2.9 (THE).

SRS	1.30	198 ePc	20 28.62	0.0	
		eS	20 49.74		
KNT	1.51	218 eP	20 31.10	-0.5	
		eS	20 54.70		
VAY	1.56	229 ePn	20 32.40	0.1	
SOH	1.64	201 ePd	20 33.50	0.0	
		eS	21 00.82		
GRG	1.91	223 ePc	20 37.06	-0.3	
		iS	21 05.69		
OUR	2.02	183 iPd	20 40.50	1.4	
SKO	2.03	260 ePn	20 39.50	0.3	
ALN	2.05	135 ePc	20 38.38	-1.0	
PAIG	2.45	188 ePd	20 45.70	0.5	
FNA	2.59	234 ePc	20 46.50	-0.8	
OHR	2.78	245 ePn	20 41.50	-8.5X	
MLR	3.40	22 eP	20 59.00	0.3	
	S.D. = 0.8	on 11 of 12 obs.			

? JAN 11, 1991 13h 53m 51.81± 0.99s
37.113 N ± 9.0km 29.539 E ± 8.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ELL	0.47	141 iPg	54 01.50	0.1	
BCK	0.91	67 ePn	54 09.00	-0.2	
KHL	1.21	359 iPn	54 14.60	0.2	
CIN	1.26	293 eP	54 15.00	-0.1	
	S.D. = 0.4	on 4 of 4 obs.			

JAN 11, 1991 14h 02m 43.98± 1.08s
47.100 N ±10.4km 152.337 E ± 7.9km
DEPTH = 94.6 ± 11.0 km
5.1mb (52 obs.)
KURIL ISLANDS (221)

KUSJ	6.72	236 P	04 21.70	0.0	
		eS	05 31.30		
ASAJ	7.42	250 P	04 36.10	4.7X	
HOOJ	7.98	237 P	04 39.40	0.4	
		eS	06 02.50		
MRRJ	9.27	244 P	04 57.20	0.6	
		S	06 35.50		
AOMJ	10.83	237 eP	05 15.40	-2.1	
		eS	07 10.00		
OFUJ	11.18	228 eP	05 20.90	-1.2	
		eS	07 16.30		
MAT	14.88	230 eP	06 11.00	0.5	
	0.7s	5.48nm	3.9mb X		
CN2	19.11	270 eP	06 58.70	-3.2X	
SNY	21.13	266 Pc	07 22.00	-0.5	
	0.6s	100.00nm	5.3mb		
BJI	26.95	268 eP	08 20.00	1.9	
	1.0s	21.00nm	4.6mb		
ANM	28.73	37 eP	08 35.20	1.3	
SSE	28.74	247 eP	08 35.50	1.2	
	0.5s	16.00nm	4.9mb		
HHC	29.74	273 P	08 43.00	-0.3	
	1.0s	100.00nm	5.5mb		
TIY	30.63	267 iPd	08 52.50	1.4	
IMA	33.84	36 eP	09 19.50	0.6	
	0.7s	8.80nm	4.7mb		
XAN	35.02	264 Pc	09 29.00	-0.2	
FBA	36.22	39 ePc	09 40.10	1.2	
	0.8s	13.30nm	4.9mb		
LZH	37.35	271 Pc	09 49.50	0.6	
	1.5s	68.00nm	5.4mb		
GTA	38.39	278 eP	09 57.60	0.0	
	0.8s	100.00nm	5.8mb		
CD2	40.38	264 iPc	10 14.20	0.2	
	0.8s	100.00nm	5.7mb		
INK	41.64	33 iPc	10 25.40	1.6	
WMQ	44.30	291 P	10 45.60	-0.3	
MBC	44.45	20 eP	10 47.50	1.0	
	0.6s	3.00nm	4.3mb		
LSA	49.73	272 P	11 30.00	1.1	
YKA	50.96	37 eP	11 37.10	-0.2	
	0.5s	1.60nm	4.3mb		
CHTO	51.69	256 P	11 42.80	-0.5	
SHL	51.85	268 iP	11 44.20	-0.5	
GUN	54.44	274 Pc	12 03.66	-0.4	
	0.5s	77.00nm	6.0mb		
KKN	54.93	275 P	12 07.20	-0.2	
	0.6s	97.00nm	6.0mb		
PKI	54.98	274 Pc	12 07.48	-0.4	
	0.6s	46.00nm	5.7mb		
DMN	55.16	274 P	12 09.16	0.0	
	0.6s	121.00nm	6.1mb X		
GKN	55.23	275 Pc	12 09.34	-0.2	
	0.6s	188.00nm	6.3mb X		
SOD	58.73	338 iP	12 32.00	-1.5	
NDI	59.81	281 iPc	12 40.50	-1.0	
	0.5s	56.34nm	6.0mb		
FFC	60.81	40 eP	12 48.00	0.0	
	0.5s	6.00nm	4.9mb		
FRB	64.89	19 eP	13 12.00	-2.7	
QUE	65.61	289 eP	13 15.00	-5.0X	
HYB	66.46	271 eP	13 24.20	-1.2	
NB2	67.72	341 P	13 31.40	-1.4	
	0.6s	11.80nm	5.0mb		
HFS	67.94	339 eP	13 32.50	-1.6	
	0.4s	20.00nm	5.4mb		
POO	68.89	275 eP	13 41.50	0.9	
CBA	69.90	268 P	13 45.70	-1.0	
KOD	72.28	266 eP	14 01.40	0.0	
ASPA	72.38	198 eP	14 02.20	0.9	
	1.4s	4.90nm	4.2mb		
KRA	74.85	330 iPc	14 14.50	-0.9	
	0.6s	25.00nm	5.2mb		
KSP	75.35	333 iPc	14 17.90	-0.4	
SPC	75.48	330 eP	14 18.20	-1.1	
EKA	75.87	346 P	14 22.00	0.9	
	2.2s	159.70nm	5.5mb		
CLL	75.92	335 iPc	14 21.10	-0.4	
	0.8s	41.00nm	5.3mb		
PRU	76.64	334 Pc	14 25.40	-0.1	
	0.8s	13.80nm	4.9mb		
MOX	76.91	336 eP	14 27.00	0.0	
WTS	76.96	339 iPd	14 27.10	-0.1	
	0.6s	33.00nm	5.4mb		
SRO	77.33	330 iP	14 29.70	0.4	
BUD	77.37	330 eP	14 29.90	0.4	
ZST	77.40	331 iP	14 29.70	0.0	
KHC	77.69	334 eP	14 31.50	0.1	
GRF	77.88	335 iPc	14 32.90	0.5	
	0.9s	41.00nm	5.3mb		
ENN	78.31	339 iPd	14 35.00	0.4	
	0.7s	31.00nm	5.3mb		
PVL	78.60	323 iPc	14 36.00	-0.4	
ABH	78.71	338 eP	14 36.96	0.0	
VTS	79.98	324 iPc	14 46.00	2.0	
SQTA	80.11	334 iPd	14 45.20	0.6	
	0.9s	30.10nm	5.1mb		
		i	14 48.30		
RZN	80.13	323 iPc	14 45.00	0.1	
CDF	80.13	337 eP	14 44.00	-0.7	
	0.8s	16.10nm	4.9mb		
MMB	80.61	324 iPc	14 48.00	0.7	
HAU	80.75	338 eP	14 47.30	-0.6	
	0.6s	7.20nm	4.7mb		
BSF	80.79	337 eP	14 47.30	-0.9	
	0.8s	10.75nm	4.8mb		
SKO	81.20	325 eP	14 50.50	0.2	
VAY	81.31	324 eP	14 50.70	-0.1	
FLN	81.64	342 eP	14 51.50	-0.9	
	1.1s	29.30nm	5.0mb		
LDF	81.73	342 eP	14 52.30	-0.6	
	1.4s	47.90nm	5.2mb		
HRI	81.81	311 eP	14 54.00	0.3	
LOR	82.06	339 eP	14 53.70	-1.0	
	0.7s	16.00nm	5.0mb		
GRR	82.07	342 eP	14 54.10	-0.6	
	1.0s	26.00nm	5.0mb		
OHR	82.18	325 eP	14 55.00	-0.5	
LBF	82.30	339 eP	14 55.40	-0.6	
	0.8s	7.40nm	4.6mb		
SSF	82.34	339 eP	14 55.50	-0.6	
	1.0s	12.00nm	4.7mb		
LPF	82.45	342 eP	14 56.30	-0.4	
	1.0s	22.00nm	5.0mb		
JARJ	82.51	310 Pc	14 58.71	1.3	
AVF	82.63	339 eP	14 57.20	-0.4	
	1.1s	26.85nm	5.1mb		
SMF	82.65	339 eP	14 57.50	-0.3	
	1.2s	35.70nm	5.1mb		
MDSJ	82.83	309 Pc	15 00.47	1.4	
SALJ	82.83	310 Pc	15 00.30	1.3	
LPL	82.94	336 eP	14 59.70	0.1	
	0.5s	4.35nm	4.6mb		
KFNJ	82.95	310 Pc	15 01.28	1.8	
LPG	82.95	336 eP	14 59.90	0.2	
	1.1s	14.65nm	4.8mb		
BGF	82.97	339 eP	14 58.90	-0.5	
	0.5s	4.75nm	4.7mb		
CSTJ	83.00	309 Pc	15 00.96	1.0	
MASJ	83.03	310 Pc	15 01.34	1.3	
MKRJ	83.21	310 Pc	15 02.29	1.3	
DSI	83.33	310 eP	15 02.00	0.5	
MAF	83.36	339 eP	15 01.40	0.0	
	0.5s	10.95nm	5.0mb		
TCF	83.38	340 eP	15 00.90	-0.6	
	1.1s	18.30nm	4.9mb		
LISJ	83.54	310 Pc	15 03.57	1.1	
LSF	83.57	340 eP	15 02.40	-0.1	
	0.7s	17.10nm	5.1mb		
MFF	83.62	341 eP	15 02.40	-0.3	
	0.9s	37.65nm	5.3mb		
RJF	84.47	340 eP	15 06.70	-0.3	
	0.7s	7.70nm	4.8mb		
CAF	84.69	339 eP	15 08.60	0.4	
	0.8s	24.20nm	5.2mb		
LFF	84.99	340 eP	15 09.90	0.3	
	0.8s	21.50nm	5.2mb		
LMR	85.01	336 eP	15 09.40	-0.3	
	1.1s	14.65nm	4.8mb		
MBH	85.02	309 eP	15 11.00	0.9	
LPO	85.13	340 eP	15 10.50	0.2	
	0.8s	16.10nm	5.0mb		
EPF	86.89	340 eP	15 18.20	-0.9	
	0.9s	16.40nm	5.1mb		
TIC	122.85	333 PKP	21 29.50	-1.1	
KIC	123.03	333 PKP	21 29.60	-1.3	
LIC	123.25	333 PKP	21 30.00	-1.3	
	S.D. = 0.9	on 103 of 106 obs.			

? JAN 11, 1991 15h 15m 30.44± 1.18s
55.021 N ±33.7km 165.471 E ±15.3km
DEPTH = 33.0km (normal)
4.3mb (1 obs.)
KOMANDORSKY ISLANDS REGION (4)

FBA	24.80	48	P	20	50.20	-0.1
YKA	39.57	46	eP	23	02.00	2.4
	0.6s		0.50nm			3.5mb X
LZH	45.49	272	e(P)	24	07.00	18.7X
	1.5s		23.00nm			
TNP	52.99	75	P	24	44.90	-1.2
FRB	54.43	26	eP	24	55.00	-1.0
CHTO	61.36	262	(P)	25	45.90	0.6
			pP	25	51.20	17kmX
GUN	61.79	279	P	25	48.58	0.0
KKN	62.22	279	P	25	51.96	0.7
PKI	62.31	279	P	25	51.68	-0.4
GKN	62.42	280	P	25	52.04	-0.5
DMN	62.46	279	P	25	52.82	-0.1
NB2	62.50	346	P	25	51.90	-0.6
	0.8s		2.10nm			4.3mb
	S.D. = 1.1		on 11 of 12 obs.			

* JAN 11, 1991 16h 04m 19.43± 0.71s
53.198 N ±16.3km 170.246 E ± 7.2km
DEPTH = 33.0km (normal)
4.6mb (6 obs.)
NEAR ISLANDS, ALEUTIAN ISLANDS (5)

SMY	2.38	100	ePd	04	56.60	-0.3
TTA	20.09	48	eP	08	52.50	-0.2
IMA	21.93	40	eP	09	11.40	0.0
FBA	24.04	44	eP	09	31.80	-0.1
TOA	24.51	51	eP	09	38.20	1.6
YKA	38.83	46	eP	11	41.70	-0.7
	0.8s		1.10nm			3.7mb
NB2	64.89	349	P	14	56.50	-0.6
	0.7s		2.90nm			4.5mb
GUN	64.90	283	P	14	58.12	0.1
	1.0s		15.00nm			5.0mb
KKN	65.34	284	P	15	00.86	0.2
PKI	65.43	284	P	15	01.74	0.3
	1.0s		8.00nm			4.8mb
HFS	65.46	347	eP	14	59.50	-1.2
	0.5s		1.30nm			4.3mb
GKN	65.56	284	P	15	02.06	0.1
	1.0s		9.00nm			4.8mb
DMN	65.58	284	P	15	01.78	-0.5
KHC	76.15	344	eP	16	06.80	1.4
	S.D. = 0.8		on 14 of 14 obs.			

* JAN 11, 1991 16h 56m 17.40± 0.50s
17.297 S ±10.7km 176.956 W ± 9.7km
DEPTH = 425.9km (2 depth phases)
5.1mb (8 obs.)
FIJI ISLANDS REGION (181)

MBU	4.15	274	iPc	57	31.10	-2.0
			iS	58	31.10	
VUN	4.42	260	iPc	57	34.70	-1.0
SVA	4.45	259	iPc	57	35.70	-0.2
			eS	58	41.30	
AFI	6.02	57	iPd	57	49.00	-3.0
			eS	58	00.00	
DZM	16.33	250	iPc	59	44.80	0.1
HNR	23.77	286	eP	00	56.00	0.1
	1.0s		560.00nm			6.0mb
SVO	24.00	287	eP	00	59.00	1.0
KHZ	26.32	196	P	01	17.30	-1.4
			e	01	50.10	159kmX
MMCZ	29.99	200	P	01	50.90	0.0
			e	02	21.70	145kmX
MHZ	29.99	200	P	01	51.00	0.0
			e	02	21.70	145kmX
COO	31.28	239	iP	02	02.60	0.4
RMQ	33.02	248	iPd	02	18.30	1.3
	0.7s		96.00nm			5.3mb
PMG	35.74	278	eP	02	39.00	-0.9
	1.0s		120.00nm			5.2mb
CMS	36.53	240	iPd	02	47.00	0.7
	0.8s		102.00nm			5.3mb
			i	03	17.00	133kmX
TOO	38.63	231	iPd	03	05.00	1.5
BFD	40.71	233	eP	03	33.00	12.6X
ADE	43.13	237	iPd	03	40.50	0.6
	0.6s		36.00nm			4.9mb
FORR	51.49	244	eP	04	43.00	-0.7
	0.4s		28.00nm			4.9mb
WARB	52.79	250	iPd	04	52.40	-1.0
	0.4s		9.00nm			4.5mb
MBL	59.47	255	eP	05	38.50	-1.6
MAT	68.26	322	iPd	06	34.40	-1.5
TNP	78.55	44	P	07	36.30	1.4
			pP	09	11.00	422km
CN2	80.39	322	eP	07	44.60	0.5
FBA	84.92	12	P	08	06.90	0.4
			e	09	44.50	429km
TIY	85.90	311	Pc	08	14.70	2.7X
XAN	87.00	307	P	08	18.50	1.2
SES	88.71	36	eP	08	25.00	1.0
CHG	90.10	290	eP	08	34.00	2.0X
INK	90.94	15	eP	08	35.00	0.2
YKA	93.20	24	eP	08	45.70	0.4
	0.7s		2.40nm			4.4mb
KSP	144.89	345	iPKP	15	07.10	1.1
CLL	145.15	349	iPKP	15	07.60	1.2
	0.6s		13.00nm			
FLN	148.49	4	ePKP	15	16.40	4.6X
	0.7s		13.25nm			
LDF	148.68	4	ePKP	15	16.90	4.8X
	0.5s		2.90nm			
CDF	148.77	355	ePKP	15	17.60	5.2X
	0.6s		6.30nm			
GRR	148.83	5	ePKP	15	17.60	5.3X
	0.6s		7.20nm			
LPF	149.17	5	ePKP	15	18.60	5.7X
	0.8s		25.50nm			
HAU	149.25	356	ePKP	15	18.60	5.5X
	0.5s		4.35nm			
BSF	149.39	355	ePKP	15	19.00	5.6X
	0.6s		3.60nm			
VBY	150.08	343	e(PKP)	15	22.20	7.9X
LDR	150.10	359	ePKP	15	20.80	6.4X
	0.5s		8.75nm			
SSF	150.32	359	ePKP	15	21.40	6.7X
	0.6s		7.65nm			
LBF	150.39	359	ePKP	15	21.40	6.6X
	0.6s		8.10nm			
AVF	150.59	360	ePKP	15	21.70	6.6X
	0.5s		3.30nm			
SMF	150.73	359	ePKP	15	22.10	6.8X
	0.5s		2.20nm			
BGF	150.82	0	ePKP	15	22.40	7.0X
	0.8s		16.10nm			
TCF	151.08	1	ePKP	15	23.00	7.1X
	0.7s		5.50nm			
LSF	151.10	2	ePKP	15	22.70	6.8X
	0.8s		14.80nm			
MAF	151.16	1	ePKP	15	23.20	7.2X
	0.6s		5.85nm			
LPL	151.70	355	ePKP	15	25.50	8.4X
	0.6s		2.25nm			
LPG	151.71	354	ePKP	15	25.40	8.2X
	0.6s		2.25nm			
CAF	152.44	2	ePKP	15	26.30	8.4X
LPO	152.65	3	ePKP	15	26.70	8.6X
	S.D. = 1.2		on 29 of 53 obs.			

* JAN 11, 1991 17h 04m 37.80± 1.36s
38.598 N ± 8.1km 27.065 E ±16.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.1 (ISK).

IZM	0.25	142	iPg	04	42.80	-0.4
			eSg	04	47.30	
CIN	1.28	141	eP	05	02.00	0.4
EZN	1.35	335	ePn	05	02.80	0.2
DST	1.58	50	ePn	05	05.30	-0.6
EDC	1.85	19	ePn	05	08.50	-1.4
KGT	1.86	6	iPn	05	09.20	-0.8
BNT	1.88	20	ePn	05	11.70	1.5
KCT	1.93	31	ePn	05	12.00	1.0
	S.D. = 1.1		on 8 of 8 obs.			

% JAN 11, 1991 17h 56m 00.95± 0.93s
41.118 N ± 8.9km 22.386 E ± 7.9km
DEPTH = 5.0km (geophysicist)
YUGOSLAVIA (383)
MD 1.1 (THE).

GRG	0.16	176	iPc	56	04.34	0.0
			iS	56	06.62	
VAY	0.25	34	iPg	56	05.70	-0.2
KNT	0.39	83	iPc	56	08.70	-0.1
			eS	56	13.38	
FNA	0.83	247	eP	56	15.50	-2.1
			eS	56	25.90	
OHR	1.20	270	eP	56	25.50	1.7
			eSg	56	41.00	
AGG	2.09	181	eP	56	37.90	0.7
			eS	57	04.40	
	S.D. = 1.6		on 6 of 6 obs.			

* JAN 11, 1991 18h 16m 56.87± 1.60s
29.218 N ±10.9km 51.124 E ±23.5km
DEPTH = 33.0km (normal)
4.0mb (2 obs.)
SOUTHERN IRAN (353)
ML 4.0 (BMU).

DHR	3.03	197	ePd	18	00.00	16.4X
BBU	3.05	191	(Pn)	17	45.00	1.1
			(Sn)	18	41.40	
RYD	6.02	223	ePd	18	26.90	0.8
MJMA	6.17	238	ePd	18	29.30	1.2
OASM	7.42	247	ePd	18	45.70	0.1
KMSA	10.67	216	ePd	19	27.90	-2.6
HFS	39.84	332	eP	24	28.00	-0.5
	0.4s		2.00nm			4.2mb
NB2	41.36	332	P	24	42.00	0.9
	0.7s		1.30nm			3.8mb
KIC	57.25	258	P	26	43.40	-0.4
TIC	57.34	258	P	26	44.20	-0.3
LIC	57.56	258	P	26	45.70	-0.3
	S.D. = 1.3		on 10 of 11 obs.			

? JAN 11, 1991 18h 17m 36.56± 2.40s
44.082 N ±42.6km 150.375 E ±27.5km
DEPTH = 33.0km (normal)
4.5mb (3 obs.)
KURIL ISLANDS REGION (222)

KUSJ	4.23	259	P	18	38.90	-1.4
			S	19	20.70	
HODJ	5.45	254	P	18	58.50	1.0
			S	19	53.50	
ASAJ	5.57	273	eP	18	59.90	0.6
MRRJ	6.99	260	eP	19	18.60	-0.6
			eS	20	31.10	
GUN	53.31	275	P	26	55.50	0.4
KKN	53.81	275	P	26	58.98	0.4
	0.7s		5.00nm			4.6mb
PKI	53.85	275	P	26	58.88	-0.1
DMN	54.05	275	P	27	00.54	0.2
	0.6s		5.00nm			4.8mb
GKN	54.15	276	P	27	00.76	-0.2
NB2	70.11	340	P	28	46.60	-0.5
	0.5s		0.80nm			4.0mb
	S.D. = 0.8		on 10 of 10 obs.			

JAN 11, 1991 19h 19m 29.62± 0.90s
41.044 N ± 8.8km 22.365 E ± 7.1km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MD 1.7 (THE).

GRG	0.09	162	iPc	19	32.50	0.2
			eS	19	34.76	
VAY	0.32	29	iPg	19	36.30	0.1
KNT	0.42	74	ePc	19	39.00	0.8
			eS	19	45.48	
SOH	0.78	106	ePd	19	45.16	0.3
			iS	19	55.36	
FNA	0.79	251	ePc	19	45.00	-0.1
			eS	19	55.76	
SRS	0.93	85	ePc	19	46.04	-1.4
			eS	20	01.56	
	S.D. = 0.9		on 6 of 6 obs.			

? JAN 11, 1991 19h 27m 59.02± 8.23s
44.785 N ±10.9km 6.658 E ±79.2km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 1.5 (GEN).

RRL	0.16	34	P	28	02.90	0.0
			S	28	05.36	
PZZ	0.42	131	P	28	07.71	0.0

		S	28	13.46		
STV	0.72	138 P	28	13.35	0.1	
		S	28	22.48		
ENR	0.78	135 P	28	14.17	-0.1	
		S	28	23.81		

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

? JAN 11, 1991 19h 38m 09.51± 2.77s
40.190 N ±15.8km 20.404 E ±25.7km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
MD 2.2 (THE).

IGT	0.66	185 eP	38	22.56	-0.1	
		eS	38	32.60		
FNA	0.95	51 eP	38	27.80	0.2	
		eS	38	40.04		
OHR	0.97	18 ePg	38	32.70	4.8X	
		eSg	38	46.00		
LIT	1.60	93 eP	38	37.48	-0.5	
		eS	39	00.84		
AGG	1.89	127 eP	38	42.56	0.4	
		eS	39	07.24		

S.D. = 0.6 on 4 of 5 obs.

& JAN 11, 1991 19h 42m 36.30s
32.033 N 115.033 W
DEPTH = 6.0km (geophysicist)
CALIFORNIA-MEXICO BORDER REGION (45)
<PAS-P>. ML 3.1 (PAS).

GLA	1.03	10 eP	42	52.00	-4.2	
PLM	2.03	311 eP	43	09.70	-1.9	
PEC	2.58	317 eP	43	25.50	6.2	

3 obs. assocíated

? JAN 11, 1991 19h 46m 19.79± 1.04s
36.980 N ± 9.3km 29.635 E ± 9.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ELL	0.32	136 iPg	46	26.50	0.0	
		iSg	46	32.50		
BCK	0.90	57 iPn	46	37.00	-0.1	
KHL	1.34	356 ePn	46	44.70	0.1	
CIN	1.38	297 eP	46	45.00	-0.1	

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

JAN 11, 1991 19h 53m 48.72± 0.25s
40.039 N ± 3.1km 25.896 E ± 2.2km
DEPTH = 12.4 ± 1.9 km
AEGEAN SEA (365)
MD 3.4 (ISK), 3.2 (ATH), 2.9 (THE).

EZN	0.39	123 iPg	53	56.80	-0.1	
		eSg	54	00.80		
PRK	0.84	160 eP	54	04.80	0.1	
ALN	0.87	8 iPc	54	05.62	0.5	
		e	54	17.66		
RDO	1.14	346 eP	54	10.50	0.7	
KGT	1.15	69 iPg	54	09.70	-0.4	
OUR	1.50	282 ePd	54	15.22	-0.1	
		e	54	34.66		
EDC	1.54	78 ePn	54	16.50	0.6	
BNT	1.58	78 iPn	54	16.80	0.2	
KDZ	1.65	347 iPd	54	18.00	0.4	
PAIG	1.71	267 ePc	54	18.74	0.4	
RZN	1.88	332 eP	54	22.00	1.0	
KCT	1.90	83 ePn	54	23.00	1.8	
PLG	1.91	281 eP	54	21.00	-0.3	
IZM	1.95	147 ePn	54	22.00	0.0	
DIM	2.03	352 eP	54	24.00	1.0	
SRS	2.06	302 iPd	54	23.25	-0.2	
		e	54	47.26		
SOH	2.09	293 ePc	54	23.86	-0.2	
DST	2.15	101 ePn	54	24.90	0.1	
NEO	2.19	251 eP	54	25.00	-0.4	
PLD	2.25	337 eP	54	31.00	4.7X	
MMB	2.26	314 iPc	54	26.00	-0.4	
DMK	2.27	38 iPn	54	25.90	-0.7	
JMB	2.48	12 eP	54	36.00	6.5X	
KNT	2.54	297 iPc	54	30.70	0.3	
LIT	2.61	272 ePc	54	31.90	0.4	
ISK	2.62	66 ePn	54	31.00	-0.5	
YLV	2.71	78 iPn	54	32.70	-0.2	
PGB	2.83	333 iP	54	35.00	0.5	
VAY	2.84	298 ePn	54	42.00	7.4X	
AGG	2.94	251 ePd	54	36.38	0.3	
HRT	2.98	74 iPn	54	35.70	-1.0	
PVL	3.20	353 iPd	54	39.00	-0.7	
VTS	3.26	322 eP	54	41.00	0.3	
KHL	3.30	120 ePn	54	42.00	0.8	
MLR	5.45	0 eP	55	16.50	4.8X	

S.D. = 0.6 on 31 of 35 obs.

JAN 11, 1991 20h 26m 02.59± 0.61s
40.114 N ± 6.3km 20.610 E ± 6.2km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
MD 3.3 (ATH), 3.0 (THE).

IGT	0.62	200 iPc	26	13.21	-1.8	
		eS	26	24.00		
KEK	0.74	238 ePn	26	16.50	-0.6	
FNA	0.89	41 iPc	26	18.84	-0.8	
		eS	26	31.76		
KZN	0.91	77 ePb	26	19.20	-0.9	
OHR	1.01	8 iPg	26	22.00	0.3	
		iSg	26	38.60		
		Lg	26	42.50		
LIT	1.44	90 ePc	26	28.21	-0.6	
		eS	26	50.84		
EVR	1.51	142 ePn	26	29.00	-0.8	
GRG	1.60	58 ePd	26	31.52	0.4	
		eS	26	53.64		
AGG	1.72	129 iPc	26	33.24	0.5	
		eS	26	57.50		
THE	1.87	73 ePd	26	36.08	1.2	
VAY	1.92	50 ePn	26	35.00	-0.6	
VLS	1.93	180 ePb	26	38.50	2.7	
		eSn	27	04.00		
SKO	1.96	18 ePn	26	40.00	3.8X	
		i	26	43.00		
		iSn	27	06.00		
		i	27	09.50		
LCI	2.05	277 P	26	38.00	0.6	
		eSn	27	08.00		
SOH	2.21	70 ePc	26	40.36	0.5	
		eS	27	10.88		

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

? JAN 11, 1991 20h 27m 21.93± 4.09s
12.566 N ±49.3km 90.024 W ±23.2km
DEPTH = 33.0km (normal)
3.9mb (1 obs.)
OFF COAST OF CENTRAL AMERICA (76)
Felt (III) at San Salvador, El Salvador.

SJAS	1.38	37 iPd	27	44.90	-0.2	
OZA	1.38	46 iPd	27	45.20	0.1	
VSS	1.40	33 iPd	27	45.50	0.1	
LFU	1.47	37 iPd	27	46.50	0.0	
TME	1.58	24 iPd	27	48.10	0.1	
YKA	52.86	346 eP	36	36.50	0.0	
	0.4s	0.60nm		3.9mb		

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

% JAN 11, 1991 20h 43m 02.25± 0.76s
40.552 N ± 7.0km 23.646 E ±11.2km
DEPTH = 5.0km (geophysicist)
GREECE (364)
MD 1.7 (THE).

OUR	0.34	130 ePc	43	09.30	0.3	
		eS	43	14.06		
SOH	0.35	321 iPd	43	09.74	0.5	
		eS	43	14.50		
SRS	0.57	356 ePd	43	13.22	-0.4	
		eS	43	21.10		
PAIG	0.62	178 ePc	43	14.50	-0.3	
		eS	43	23.38		
KNT	0.83	317 ePd	43	18.74	-0.1	
		eS	43	29.94		

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

& JAN 11, 1991 20h 57m 37.87s
63.033 N 148.690 W
DEPTH = 75.2km
3.9mb (3 obs.)
CENTRAL ALASKA (1)
<AEIC>. Felt (II) at Mile 95 Glenn Highway and (I) at Anchorage.

RND	0.38	349 iP	57	50.26	-0.2	
HUR	0.44	263 iP	57	50.67	-0.1	
		eS	58	00.24		
MCK	0.71	351 iP	57	53.54	0.0	
		eS	58	04.65		
CUT	0.96	230 iP	57	56.34	-0.1	
BWN	1.19	343 iP	57	59.00	-0.4	
SML	1.24	172 eP	58	00.19	0.2	
		eS	58	17.13		
GHO	1.27	185 iP	58	00.12	-0.3	
THY	1.39	73 iP	58	01.87	-0.1	
		eS	58	20.24		
PLRM	1.46	188 eP	58	02.72	-0.1	
		eS	58	23.13		
PMR	1.46	188 iPd	58	02.70	-0.1	
PAX	1.47	91 iP	58	02.61	-0.5	
DDM	1.48	58 iP	58	03.47	0.3	
		eS	58	23.27		
TOA	1.49	128 iPd	58	03.60	0.2	
PWA	1.49	202 iP	58	03.56	0.3	
SDG	1.53	108 iP	58	03.76	-0.1	
NEA	1.56	354 iP	58	03.38	-0.8	
		eS	58	23.31		
HDA	1.58	29 iP	58	03.68	-0.8	
		eS	58	24.10		
KNK	1.63	176 eP	58	05.41	0.2	
		eS	58	26.46		
CCB	1.67	13 iP	58	04.60	-1.0	
		eS	58	25.01		
SKT	1.69	233 iP	58	06.02	0.0	
		eS	58	27.65		
TZL	1.81	122 eP	58	07.60	0.0	
PMS	1.84	193 iP	58	08.33	0.3	
SUA	1.85	212 eP	58	08.68	0.5	
		eS	58	34.28		
FBA	1.92	12 iPc	58	08.20	-0.8	
MDM	1.94	6 iP	58	08.67	-0.8	
KLU	2.02	139 iP	58	09.77	-0.7	
		eS	58	35.27		
DOT	2.18	71 eP	58	12.33	-0.3	
		eS	58	38.81		
VLZ	2.21	149 eP	58	11.49	-1.5	
VZW	2.22	152 eP	58	12.15	-1.2	
GLI	2.29	160 eP	58	13.11	-1.1	
NCG	2.30	226 eP	58	14.93	0.4	
CGLM	2.33	223 eP	58	15.17	0.4	
CRP	2.41	224 eP	58	17.65	1.7	
SPU	2.44	222 eP	58	16.78	0.5	
BGL	2.48	226 eP	58	17.82	0.8	
CKL	2.52	225 eP	58	17.56	0.1	
NKA	2.60	209 eP	58	21.35	3.0	
TMW	2.60	81 eP	58	17.19	-1.3	
SLKM	2.64	197 eP	58	18.83	-0.2	
KNIM	2.73	170 eP	58	18.50	-1.8	
GLB	2.79	123 iP	58	20.13	-1.0	
HIN	2.84	158 eP	58	20.57	-1.3	
CVA	2.86	149 eP	58	20.87	-1.2	
SEW	2.96	187 eP	58	22.78	-0.7	
LTI	3.03	172 eP	58	23.02	-1.4	
SGAM	3.03	145 iP	58	22.48	-2.0	
RDT	3.03	217 eP	58	24.57	0.0	
MTU	3.10	170 eP	58	24.11	-1.3	
RDN	3.18	219 eP	58	26.41	-0.3	
REF	3.19	219 eP	58	26.93	0.1	
NCT	3.19	221 eP	58	26.86	0.0	
RSO	3.22	219 eP	58	27.37	0.0	
RS2	3.22	219 eP	58	27.56	0.2	
NNL	3.25	204 eP	58	28.62	1.1	
RED	3.26	218 eP	58	27.81	0.0	
RAGM	3.27	142 eP	58	26.11	-1.8	
TTA	3.34	271 iPd	58	28.20	-0.7	
HMT	3.43	140 eP	58	27.96	-2.1	
BRLK	3.45	199 eP	58	30.05	-0.2	
TGL	3.59	127 iP	58	30.31	-2.1	
BALM	3.60	121 iP	58	30.54	-2.0	
INE	3.64	217 eP	58	32.45	-0.7	
HOM	3.67	204 eP	58	33.87	0.5	
CNPM	3.73	200 eP	58	33.98	-0.2	
KAIM	3.73	145 eP	58	32.12	-2.1	
IMA	3.73	327 ePd	58	33.30	-1.1	
SVW	3.79	242 eP	58	34.40	-0.7	
MID	3.79	162 eP	58	35.10	0.1	
WAX	3.80	130 eP	58	33.22	-2.0	
XLV	3.88	204 eP	58	35.64	-0.6	
OPT	4.03	215 eP	58	38.11	-0.4	

11d 20h

```
CTGM     4.04 118 eP     58 36.95   -1.8
PDB      4.19 222 eP     58 40.14   -0.6
AUE      4.33 214 eP     58 42.39   -0.2
AUP      4.34 214 eP     58 42.99    0.2
AUH      4.34 214 eP     58 43.26    0.4
AUI      4.36 214 eP     58 43.26    0.2
WRG      4.38 130 eP     58 41.26   -2.1
MCNL     4.73 218 eP     58 47.87   -0.4
SYI      4.79 204 eP     58 47.53   -1.6
YKU      5.55 125 eP     58 58.50   -1.2
KDC      5.63 201 ePd    58 58.50   -2.2
ANM      7.54 289 eP     59 26.60   -0.6
INK      8.18  43 P      59 33.50   -2.5
        0.6s      5.10nm          4.4mb
SIT      8.97 126 eP     59 43.10   -3.6
YKA     15.51  77 eP     01 14.00    0.9
        0.6s      4.50nm          3.8mb
MBC     16.41  25 eP     01 22.00   -2.3
        0.6s      3.00nm          3.6mb
MSU     32.93 121 eP     04 07.00    0.0
        88 obs. associated
-------------------------------------------
   JAN  11, 1991  21h 28m 54.94± 0.81s
   40.598 N ± 6.2km   23.699 E ± 7.9km
   DEPTH =  10.0km  (geophysicist)
 GREECE                              (364)
      MD 2.1 (THE).

OUR      0.34 141 ePc    29 02.17    0.2
                eS      29 06.68
SOH      0.34 310 iPc    29 02.38    0.3
                iS      29 07.34
SRS      0.52 351 ePd    29 05.84    0.3
                eS      29 14.60
PAIG     0.67 181 ePd    29 07.04   -1.2
                eS      29 15.88
KNT      0.83 313 ePd    29 10.96    0.0
MMB      0.99   1 iPgc   29 11.00   -2.7
GRG      1.05 290 ePc    29 15.12    0.4
LIT      1.05 242 ePc    29 15.53    0.8
                eS      29 29.12
VAY      1.12 311 ePn    29 15.70   -0.2
RZN      1.33  35 eP     29 22.00    2.4
      S.D. = 1.5  on  10 of  10 obs.
-------------------------------------------
?  JAN  11, 1991  22h 16m 02.34± 1.87s
    3.510 N ± 7.3km    76.478 W ±14.7km
    DEPTH =   5.0km  (geophysicist)
 COLOMBIA                            (103)
      MD 2.3 (UVC).

HOOC     0.16 255 iPc    16 05.72   -0.1
                eS      16 07.50
CLMC     0.38 347 eP     16 09.97    0.0
                eS      16 15.00
ANCC     0.39 271 ePc    16 10.20    0.0
                eS      16 15.30
SALC     0.58 202 ePc    16 13.91    0.0
      S.D. = 0.1  on   4 of   4 obs.
-------------------------------------------
&  JAN  11, 1991  22h 30m 48.10s
    40.480 N          124.498 W
    DEPTH =  21.0km
 NEAR COAST OF NORTHERN CALIF.    ( 35)
      <BRK>. ML 3.5 (BRK).

FHC      0.51  50 iPc    30 57.92   -0.3
                iS      31 04.71
WDC      1.50  86 iPd    31 12.02   -1.9
LTCM     1.83  98 eP     31 17.20   -1.6
LBFM     2.16  65 eP     31 22.50   -1.2
MIN      2.21  93 eP     31 22.10   -2.3
ORV      2.48 111 eP     31 25.79   -2.3
                eS      31 54.60
BRK      3.13 146 eP     31 33.30   -4.0
PCC      3.40 150 eP     31 37.00   -4.1
ARN      3.89 143 eP     31 44.40   -3.7
SAO      4.41 146 eP     31 51.20   -4.3
BONR     5.43 116 eP     32 10.00   -0.2
       11 obs. associated
-------------------------------------------
?  JAN  11, 1991  22h 36m 14.07± 6.73s
    2.342 N ±37.8km    75.760 W ±47.9km
    DEPTH =  33.0km  (normal)
 COLOMBIA                            (103)
      MD 3.5 (UVC).

PURC     0.60 268 iPd    36 26.45   -0.1
                eS      36 36.80
DIAC     1.04 335 eP     36 31.70   -0.8
                eS      36 46.00
SALC     1.12 304 eP     36 34.20    0.5
HOOC     1.42 322 eP     36 38.00    0.0
HOBC     2.03 349 eP     36 47.30    0.5
      S.D. = 0.8  on   5 of   5 obs.
-------------------------------------------
   JAN  11, 1991  23h 24m 31.44± 0.68s
   39.197 N ± 5.3km    24.521 E ± 5.5km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                          (365)
      ML 2.8 (ATH). MD 2.4 (THE).

PAIG     0.98 319 ePd    24 50.30    0.3
                eS      25 03.18
NEO      1.01 277 ePb    24 50.00   -0.6
OUR      1.21 340 ePd    24 53.74   -0.2
ATH      1.38 208 iPbd   24 56.50   -0.1
PLG      1.44 325 ePb    24 57.50   -0.1
AGG      1.71 265 ePc    25 02.50    1.0
                iS      25 25.30
LIT      1.81 301 ePd    25 02.14   -0.8
                eS      25 24.70
                e       25 25.06
SOH      1.85 331 ePc    25 03.26   -0.3
THE      1.87 321 ePc    25 03.42   -0.3
SRS      2.05 340 eP     25 05.74   -0.6
KNT      2.32 328 ePd    25 11.02    0.7
MMB      2.46 346 iPd    25 12.00   -0.3
KGT      2.48  59 ePn    25 12.50    0.0
RZN      2.49   3 eP     25 13.00    0.2
KDZ      2.54  15 eP     25 13.00   -0.4
VAY      2.59 325 ePn    25 19.20    5.1X
IGT      3.26 277 ePc    25 23.70    0.0
VTS      3.53 344 eP     25 29.00    1.4
      S.D. = 0.6  on  17 of  18 obs.
-------------------------------------------
   JAN  12, 1991  03h 14m 35.91± 0.64s
   31.582 S ± 5.3km    71.867 W ±10.7km
   DEPTH =  33.0km  (normal)
   4.5mb (  4 obs.)  4.3Msz (  1 obs.)
 NEAR COAST OF CENTRAL CHILE         (135)

IHA      1.45 173 eP     15 00.00   -0.1
                iS      15 01.00
JACH     1.54 136 iPd    15 01.50    0.0
                i       15 20.50
ROCH     1.56 153 iPc    15 02.20    0.3
LCCH     1.90 173 iPd    15 06.50   -0.2
                iS      15 30.00
SAN      2.13 152 ePc    15 10.00    0.2
                iS      15 38.10
FCH      2.19 143 iPc    15 11.50    0.5
TACH     2.21 159 iPc    15 11.60    0.6
PCH      2.33 151 iPc    15 13.00    0.2
                iS      15 44.40
LNV      2.40 171 iP     15 12.50   -1.2
                i       15 15.50
RTRS     2.50  56 iPc    15 18.00    2.9
MDZ      2.87 118 iPd    15 23.70    3.3X
                i(S)    15 58.00
RTLL     2.91  86 ePd    15 22.90    1.9
CYA      6.12  61 ePd    16 05.00   -1.5
ARE     15.06   1 eP     18 15.00    6.7X
CCH     15.06  22 P      18 11.00    2.7
CNCB    15.12  14 P      18 09.00   -0.4
LPB     15.37  14 P      18 12.00   -0.5
      Z  19s      1.39um
                LR      23 46.00
ZOBO    15.62  13 P      18 14.00   -1.9
       1.0s     16.25nm          4.2mb
      Z  20s      0.79um          4.9Msz
                i       22 27.00
                LR      22 40.00
NNA     20.03 346 eP     19 23.00   13.9X
       0.8s      5.97nm
PPD     20.64  68 eP     19 09.70   -5.5X
                e       19 19.00
VAO     23.68  75 eP     19 44.60   -0.9
                e       20 04.90
BAO     26.94  59 ePc    20 13.90   -2.5
LIC     73.88  72 P      26 08.22   -1.5
      Z  20s      0.16um          4.3Msz
TIC     74.13  72 P      26 09.54   -1.6
KIC     74.19  72 Pc     26 10.08   -1.4

       0.9s     24.50nm          5.2mb
GDL     77.44 334 (P)    26 31.00    1.3
SBB     78.83 323 eP     26 39.00    1.8
ISA     79.92 323 eP     26 44.00    0.9
TNP     81.19 325 P      26 48.40   -1.5
BCAO    92.64  86 ePd    27 47.10    1.1
       0.6s      3.00nm          4.9mb
YKA     99.82 341 eP     28 23.70    6.2X
       0.5s      0.10nm          3.6mb
GBA    146.65 115 PKP    34 15.40    0.7
      S.D. = 1.4  on  27 of  32 obs.
-------------------------------------------
*  JAN  12, 1991  04h 56m 51.27± 1.10s
   22.342 N ±10.0km  120.586 E ± 9.2km
   DEPTH =  10.0km  (geophysicist)
   4.3mb (  3 obs.)
 TAIWAN                              (244)

TWM1     0.50 343 iPc    57 02.10    0.6
                eS      57 07.40
TWG      0.65  43 iPd    57 04.90    0.6
                eS      57 13.00
TWK      0.92 354 iPc    57 05.80   -3.2X
                eS      57 14.70
TWF1     1.20  33 iPd    57 11.40   -2.2
                eS      57 23.40
TWQ      1.94   7 ePc    57 20.80   -3.8X
QZH      3.17 325 ePn    57 37.10   -5.0X
CVP      4.76 166 eP     58 10.00    5.3X
GZH      6.73 278 eP     58 32.20   -0.3
SSE      8.73   3 eP     59 01.50    1.0
NJ2      9.79 351 Pc     59 15.00   -0.1
GYA     13.33 291 P      00 02.00   -1.2
TIY     16.85 337 Pd     00 50.00    1.1
LZH     19.99 317 eP     01 34.50    7.6X
       2.0s     25.00nm          4.2mb
                pP      01 41.00   25kmX
                sP      01 47.00
                i       02 04.00
ASPA    47.53 163 eP     05 29.50    0.7
       0.4s      5.10nm          5.0mb
YKA     84.87  23 eP     09 35.60    8.4X
       0.6s      0.70nm          4.1mb
      S.D. = 1.3  on   9 of  15 obs.
-------------------------------------------
*  JAN  12, 1991  05h 45m 33.28± 0.31s
   18.409 S ±10.4km  173.596 W ±14.6km
   DEPTH =  33.0km  (normal)
   5.0mb (  8 obs.)  5.1Msz (  2 obs.)
 TONGA ISLANDS                       (173)

AFI      4.80  22 eP     46 46.00    0.7
                eS      47 36.00
DZM     19.08 256 iPc    49 55.30   -0.7
PUZ     20.85 198 P      50 13.90   -0.9
WLZ     21.55 204 P      50 22.40    0.6
KHZ     26.31 202 eP     51 03.90   -3.8X
LTZ     27.09 203 eP     51 13.50   -1.5
ASPA    49.06 254 eP     54 11.20   -8.4X
       1.1s     25.20nm          5.2mb
      Z  18s      0.50um          4.6Msz
                eS      01 11.20
SPA     71.71 180 iPc    56 54.30    0.4
       1.0s     26.00nm          5.2mb
                i       57 10.10
PLM     74.68  47 ePc    57 11.50   -0.3
CMB     75.14  41 eP     57 14.00   -0.2
       0.8s     10.00nm          4.9mb
TNP     77.17  42 eP     57 25.80    0.0
       1.0s     15.75nm          5.0mb
SLKM    80.88  11 eP     57 44.00   -1.2
PNT     82.64  32 eP     57 55.00    0.4
PV09    82.73  46 eP     57 55.50   -0.2
ALQ     82.87  50 eP     57 56.00   -0.4
       1.4s     16.28nm          4.9mb
ANMO    82.87  50 eP     57 56.80    0.4
       1.2s     12.89nm          4.9mb
RND     83.81  11 eP     57 57.90   -2.5
LRM     84.49  38 eP     58 04.10   -0.3
FBA     85.37  11 eP     58 06.80   -1.2
       0.9s     18.75nm          5.3mb
GOL     85.87  46 eP     58 10.00   -1.4
SES     87.77  35 eP     58 20.00   -0.1
YKA     92.92  23 eP     58 42.40   -1.4
       1.3s      2.90nm          4.5mb
KOD    111.02 274 ePKP   04 17.10   10.8X
APO    137.58 354 ePKP   04 51.60   -3.7X
```

	0.8s	0.90nm				
WIT	145.67	360	ePKP	05	11.00	1.3
WTS	146.48	360	ePKP	05	12.50	1.5
	1.2s	50.00nm				
KRA	146.61	344	ePKPc	05	11.50	0.2
KSP	146.69	349	ePKP	05	12.00	0.5
			id	05	13.40	
CLL	146.76	352	iPKPc	05	12.10	0.6
	1.3s	64.00nm				
SPC	147.32	343	ePKP	05	14.40	1.6
MOX	147.57	354	ePKP	05	15.00	2.1
	1.5s	37.00nm				
ENN	147.71	1	ePKP	05	16.00	2.9X
	1.2s	35.00nm				
PRU	147.83	350	PKPc	05	16.00	2.7X
	2.0s	43.00nm				
			e	05	46.00	
GRF	148.55	354	ePKP	05	18.70	4.2X
ABH	148.59	359	ePKP	05	18.02	3.4X
KHC	148.81	351	iPKPc	05	19.00	4.0X
	1.4s	28.00nm				
ZST	149.04	346	ePKP	05	15.30	0.0
			e	05	19.10	
SRO	149.10	344	ePKP	05	19.60	4.2X
FLN	149.21	9	iPKPc	05	19.30	3.8X
	1.4s	108.90nm				
	Z 22s	1.08um			5.6Msz	
LDF	149.43	9	iPKPc	05	20.00	4.1X
	1.3s	61.35nm				
GRR	149.52	10	iPKPc	05	20.30	4.3X
	1.1s	56.15nm				
LPF	149.84	10	iPKPc	05	21.10	4.6X
	1.2s	68.45nm				
CDF	150.06	359	ePKP	05	21.80	4.8X
	1.0s	28.00nm				
BHG	150.29	351	iPKPd	05	23.00	5.8X
	0.8s	24.00nm				
MML	150.42	304	ePKP	05	23.00	5.1X
HAU	150.48	0	iPKPc	05	22.70	5.2X
	0.9s	29.50nm				
BSF	150.65	359	ePKP	05	23.10	5.2X
	0.9s	16.40nm				
SQTA	151.00	353	iPKPd	05	24.70	6.3X
	0.9s	22.30nm				
			i	05	27.80	
			i	05	29.60	
			e	05	34.00	
			i	05	42.70	
LOR	151.14	4	iPKPc	05	24.30	5.8X
	1.2s	44.65nm				
SSF	151.33	4	iPKP	05	24.90	6.1X
	1.2s	69.90nm				
MFF	151.37	9	iPKPc	05	24.60	5.8X
	1.4s	74.05nm				
FVI	151.40	351	PKP	05	27.00	8.2X
LBF	151.43	3	ePKP	05	25.00	6.0X
	1.0s	20.00nm				
PRNI	151.46	300	ePKP	05	26.00	6.5X
PTJ	151.46	346	ePKP	05	22.80	3.7X
AVF	151.58	4	ePKP	05	25.10	6.0X
	1.0s	18.00nm				
LJU	151.63	348	e(PKP)	05	19.50	0.2
			e	05	25.60	
MBH	151.73	299	ePKP	05	26.00	6.0X
SMF	151.76	4	ePKP	05	25.60	6.1X
	1.2s	26.80nm				
VOY	151.76	349	ePKP	05	19.50	-0.1
			e	05	25.80	
BGF	151.78	5	ePKP	05	25.70	6.2X
CEY	151.94	348	e(PKP)	05	19.90	0.1
			e	05	26.60	
LSF	151.94	7	iPKPc	05	25.70	6.0X
	0.9s	20.45nm				
TCF	151.98	6	iPKPc	05	26.00	6.2X
	1.0s	18.00nm				
VBY	152.00	347	ePKP	05	20.50	0.7
			i	05	27.30	
MAF	152.08	6	iPKPc	05	26.60	6.7X
	1.1s	32.95nm				
CTI	152.10	352	PKP	05	28.00	7.9X
TRI	152.10	349	ePKP	05	19.70	-0.2
			i	05	26.80	
VAI	152.55	356	PKP	05	29.00	8.5X
LPL	152.97	359	ePKP	05	29.40	7.9X
	1.0s	10.00nm				
LPG	152.99	359	ePKP	05	29.60	8.0X
	0.8s	4.70nm				

BCAO 161.74 222 iPKPd 05 33.90 1.2
0.8s 7.00nm
S.D. = 1.0 on 34 of 72 obs.

JAN 12, 1991 06h 03m 25.75± 0.15s
18.043 S ± 5.0km 173.530 W ± 6.0km
DEPTH = 33.0km (normal)
5.4mb (26 obs.) 5.3Msz (14 obs.)
TONGA ISLANDS (173)
Ms 5.4 (BRK).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 19S, 43C
Centroid Locotion:
Origin Time 06:03:34.5 0.4
Lat 17.92S 0.05 Lon 173.23W 0.02
Dep 27.8 1.6 Half-duration 2.2
Moment Tensor; Scale 10**17 Nm
Mrr= 3.08 0.06 Mtt= 0.33 0.10
Mff=-3.41 0.10 Mrt= 0.30 0.16
Mrf= 0.42 0.19 Mtf= 0.42 0.06
Principal Axes:
T Val= 3.15 Plg=82 Azm=328
N 0.33 7 174
P -3.48 3 84
Best Double Couple:Mo=3.3*10**17
NP1:Strike=167 Dip=42 Slip= 79
NP2: 1 49 99

AFI	4.44	23	eP	04	28.00	-4.7X
			eS	04	57.00	
MBU	7.47	277	ePd	05	21.10	5.8X
			eS	06	11.70	
VUN	7.62	269	ePc	05	23.10	5.8X
SVA	7.62	268	ePc	05	24.80	7.5X
			eS	06	17.90	
SGE	8.15	272	eP	05	31.50	6.6X
PVC	17.29	268	iPc	07	32.10	5.8X
DZM	19.23	255	iPc	07	50.60	0.4
HBZ	20.76	199	eP	08	08.00	1.7
PUZ	21.21	198	P	08	10.60	-0.3
NOZ	21.78	198	P	08	18.10	1.5
WLZ	21.91	204	P	08	18.40	0.5
TAZ	21.92	201	P	08	18.30	0.3
UTU	21.98	202	P	08	20.70	2.0
PPT	22.81	93	eP	08	41.00	14.0X
	1.2s	225.00nm				
PGZ	24.15	199	P	08	39.40	-0.4
MNG	24.41	201	P	08	40.70	-1.7
BLW	25.09	200	P	08	49.00	0.2
RUV	25.21	87	eP	08	50.00	-0.1
	1.2s	100.00nm			5.3mb	
TCW	25.35	202	P	08	50.50	-0.8
THZ	26.34	203	P	08	59.00	-1.5
KHZ	26.67	202	P	09	00.80	-2.7
HNR	27.12	285	eP	09	14.00	6.2X
	0.9s	168.07nm			5.7mb	
SVO	27.34	285	eP	09	23.00	13.1X
VSG	27.40	285	P	09	15.00	4.6X
LTZ	27.45	203	P	09	07.50	-3.2X
COO	33.75	242	eP	10	04.00	-2.7
RMO	35.80	250	eP	10	23.00	-1.1
CMS	39.03	242	eP	10	49.00	-2.3
PMG	39.08	277	eP	10	48.00	-3.8X
TOO	40.74	233	eP	11	03.60	-1.7
WRA	49.17	259	P	12	20.00	7.1X
	0.9s	19.20nm			5.1mb	
ASPA	49.22	254	eP	12	07.80	-5.5X
	0.7s	41.20nm			5.6mb	
	Z 18s	2.25um			5.2Msz	
			eS	19	06.90	
FORR	54.11	245	eP	12	46.00	-3.9X
	0.4s	17.00nm			5.4mb	
WARB	55.61	250	eP	12	57.50	-3.5X
	0.6s	9.00nm			5.0mb	
SBA	60.62	185	iPc	13	37.40	2.1
MBL	62.44	255	eP	13	45.80	-2.6
	0.3s	5.00nm			5.1mb	
NWAO	63.24	242	eP	13	52.00	-1.6
	Z 18s	1.90um			5.3Msz	
	N 18s	0.70um				
	E 18s	0.40um				
MUN	64.19	243	eP	13	59.60	-0.2
MAT	70.88	321	(P)	14	40.00	-1.6
	1.3s	19.23nm			5.0mb	
	Z 20s	0.71um			4.9Msz	
			eS	23	53.00	

SPA	72.07	180	iPc	14	49.40	0.9
	1.0s	65.00nm			5.6mb	
	Z 20s	0.90um			5.0Msz	
			i	15	22.10	
SYP	72.96	44	eP	14	54.00	-0.2
PRS	73.16	42	eP	14	55.40	0.2
GCC	73.20	41	ePc	14	55.20	-0.1
PCC	73.26	40	eP	14	55.70	0.1
SAO	73.38	41	eP	14	56.30	-0.1
PRI	73.49	42	eP	14	57.60	0.4
BRK	73.57	40	eP	14	57.80	0.4
BKS	73.59	40	ePc	14	57.70	0.1
	0.7s	75.00nm			5.8mb	
	Z 20s	3.00um			5.6Msz	
	N 20s	1.60um				
	E 20s	1.60um				
			eLQ	33	44.00	
			eLR	36	40.00	
LLA	73.60	42	eP	14	57.70	-0.1
MHC	73.62	41	ePc	14	58.20	0.3
PAS	73.95	45	eP	15	00.00	0.2
MWC	74.07	45	eP	15	01.00	0.3
BAR	74.14	47	eP	15	03.00	2.0
PLM	74.39	47	eP	15	02.00	-0.6
RVR	74.40	46	eP	15	01.00	-1.4
PEC	74.49	46	P	15	02.00	-1.0
SBB	74.49	45	eP	15	02.00	-1.0
FRI	74.62	42	ePc	15	03.30	-0.3
ISA	74.63	44	eP	15	03.00	-0.8
CMB	74.83	41	iPc	15	04.50	-0.4
ORV	75.09	39	eP	15	06.30	0.0
WDC	75.13	38	iPc	15	06.30	-0.2
CLC	75.30	44	eP	15	07.00	-0.6
GSC	75.53	45	eP	15	08.00	-1.0
GLA	75.64	48	eP	15	09.00	-0.6
TNP	76.86	42	P	15	16.00	-0.6
SVW	80.18	9	eP	15	32.70	-1.3
SLKM	80.51	11	iPd	15	34.40	-1.3
MDJ	81.04	323	eP	15	39.00	0.2
	Z 20s	1.80um			5.4Msz	
PMR	81.72	12	ePc	15	41.20	-0.8
	1.2s	60.00nm			5.5mb	
TTA	81.87	8	ePc	15	42.90	0.0
	1.3s	55.40nm			5.4mb	
YAH	82.25	15	eP	15	47.50	2.4
PNT	82.30	32	ePc	15	45.00	-0.3
	0.8s	27.00nm			5.3mb	
PV09	82.43	46	iPd	15	46.80	0.2
ANM	82.59	4	eP	15	46.60	0.2
ALQ	82.59	50	eP	15	47.00	-0.4
	1.2s	30.47nm			5.2mb	
	Z 20s	1.42um			5.3Msz	
ANMO	82.59	50	P	15	47.00	-0.4
	1.3s	48.08nm			5.4mb	
TOA	82.78	13	eP	15	47.60	0.0
DL2	82.93	315	Pc	15	49.00	0.3
	Z 13s	0.90um			5.3MszX	
NEW	82.95	34	P	15	47.50	-1.2
CN2	83.03	320	Pc	15	49.00	-0.1
	1.0s	20.00nm			5.2mb	
	Z 22s	1.30um			5.3Msz	
SNY	83.14	318	Pc	15	50.00	0.3
	1.8s	100.00nm			5.6mb	
	Z 21s	0.90um			5.1Msz	
RND	83.44	11	ePc	15	49.70	-1.3
LRM	84.16	38	eP	15	55.00	-0.2
BW06	84.32	42	P	15	55.00	-1.0
	0.8s	45.24nm			5.7mb	
WHN	84.47	304	eP	16	00.00	3.3X
TIA	84.82	311	eP	15	58.90	0.5
	Z 24s	1.10um			5.2MszX	
FBA	85.00	11	ePc	15	58.00	-0.7
			e	16	08.00	
IMA	85.18	8	ePc	15	59.90	0.2
MAW	85.26	199	eP	16	01.00	0.9
GOL	85.57	46	P	16	02.00	-0.4
	0.8s	10.42nm			5.1mb	
GLD	85.70	46	P	16	04.20	1.3
IPM	87.08	276	ePd	16	15.30	5.3X
	0.7s	25.00nm			5.6mb	
BJI	87.19	314	eP	16	10.50	0.6
	1.6s	67.00nm			5.6mb	
	Z 24s	0.95um			5.1MszX	
SES	87.44	35	ePc	16	10.40	-0.6
	1.1s	71.00nm			5.8mb	
EDM	87.79	31	iPc	16	12.50	-0.1
SNG	88.28	278	eP	16	20.00	4.3X

12d 06h

MEO	88.36	53	iPd	16	16.20	0.4	
RSSD	88.48	42	P	16	15.50	-0.9	
TIY	88.85	310	Pc	16	20.00	1.9	
			S	26	50.00		
GYA	89.17	298	P	16	21.00	1.1	
			S	26	52.00		
XAN	90.07	306	P	16	25.00	1.1	
LOE	90.47	288	eP	16	26.50	0.5	
HHC	90.72	313	P	16	28.20	1.4	
	Z 26s		0.90um			5.1MszX	
INK	90.85	14	eP	16	26.00	-0.6	
TUL	90.90	53	eP	16	26.40	-1.2	
	1.2s		11.80nm			5.1mb	
	Z 22s		0.91um			5.2Msz	
			LR	46	48.90		
NST	91.38	286	eP	16	50.00	19.9X	
BTO	91.71	312	eP	16	32.00	0.7	
YKA	92.56	23	eP	16	33.40	-1.2	
	0.8s		5.70nm			5.1mb	
CHG	93.43	289	eP	16	40.90	1.3	
FFC	94.36	33	ePc	16	41.80	-1.3	
	1.3s		32.00nm			5.6mb	
LZH	94.68	306	eP	16	44.50	-0.7	
FVM	95.65	52	P	16	49.50	0.1	
GTA	98.72	309	eP	17	04.20	0.8	
	Z 24s		1.90um			5.5MszX	
	E 25s		2.40um				
LPB	98.96	111	P	16	56.00	-9.3X	
			LR	49	42.00		
ZOBO	99.04	110	P	16	56.00	-9.9X	
	Z 24s		1.45um			5.4MszX	
			LR	49	32.00		
MBC	99.53	11	eP	17	06.00	-0.2	
	1.0s		5.00nm			5.0mb	
SOB1	125.97	116	(PKP)	22	28.00	0.9	
KEV	126.78	351	ePKP	22	25.00	-1.9	
MAIO	130.07	303	ePKP	22	35.00	0.6	
NB2	136.92	357	PKP	22	45.80	-0.7	
	0.9s		5.60nm				
HFS	137.64	355	ePKP	22	36.50	-11.4X	
	0.6s		1.40nm				
WIT	145.30	360	ePKP	23	02.50	1.0	
KRA	146.28	344	ePKP	23	04.50	1.2	
			i	23	06.50		
			i	23	15.00		
KSP	146.35	349	ePKP	23	03.80	0.4	
	1.4s		160.00nm				
			ic	23	05.00		
CLL	146.40	353	iPKPc	23	04.40	0.9	
	1.4s		230.00nm				
BNS	147.15	359	ePKPc	23	07.20	2.6	
	1.0s		138.00nm				
MOX	147.21	354	ePKP	23	05.50	0.7	
	2.2s		276.00nm				
	Z 22s		1.10um			5.6Msz	
ENN	147.35	1	ePKP	23	08.00	3.1X	
	1.1s		99.00nm				
PRU	147.48	350	ePKP	23	05.50	0.3	
	2.4s		189.80nm				
	Z 20s		0.90um			5.6Msz	
			e	23	09.20		
VRI	147.55	333	ePKPd	23	09.00	3.5X	
MLR	148.19	334	ePKP	23	10.00	3.3X	
GRF	148.20	354	ePKP	23	07.40	1.0	
			ic	23	10.60		
ABH	148.23	359	ePKP	23	10.06	3.6X	
PSZ	148.24	343	iPKP	23	10.80	4.2X	
KHC	148.46	351	PKP	23	07.40	0.5	
	1.5s		71.00nm				
	Z 20s		0.50um			5.3Msz	
	N 20s		0.50um				
	E 20s		0.50um				
			i	23	10.50		
			e	23	23.90		
BBTK	148.56	319	ePKP	23	08.00	0.5	
			i	23	16.00		
ZST	148.70	346	ePKP	23	07.70	0.5	
			i	23	11.60		
			e	52	24.50		
			e	54	26.40		
SRO	148.77	345	ePKP	23	07.80	0.5	
FLN	148.84	9	ePKP	23	06.00	-1.4	
	1.2s		23.80nm				
LDF	149.06	9	ePKP	23	06.20	-1.6	
GRR	149.15	10	ePKP	23	06.70	-1.2	
KMR	149.42	350	iPKP+	23	14.00	5.6X	
			i	23	27.30		

LPF	149.47	10	ePKP	23	07.00	-1.4	
HRI	149.70	306	ePKP	23	15.00	5.6X	
TIH	149.72	344	ePKP	23	10.90	2.1	
BZS	149.75	339	ePKP	23	10.00	1.1	
HAU	150.12	0	ePKP	23	09.40	0.0	
IZI	150.22	323	ePKP	23	14.00	4.1X	
BSF	150.29	360	ePKP	23	09.70	-0.1	
DSI	150.61	303	ePKP	23	17.00	6.4X	
SQTA	150.64	353	ePKP	23	10.00	-0.4	
	1.5s		82.50nm				
			i	23	15.90		
			i	23	47.50		
LOR	150.78	4	ePKP	23	10.60	0.2	
	1.2s		19.35nm				
	Z 21s		1.40um			5.7Msz	
BEO	150.85	339	ePKP	23	16.50	5.9X	
KCT	150.91	324	ePKP	23	12.00	1.1	
SSF	150.96	4	ePKP	23	10.90	0.2	
	1.4s		30.50nm				
MFF	151.00	9	ePKP	23	10.50	-0.3	
FVI	151.06	351	PKP	23	18.00	7.2X	
LBF	151.07	4	ePKP	23	11.20	0.3	
BNT	151.08	325	ePKP	23	16.40	5.3X	
PTJ	151.13	346	ePKP	23	11.60	0.5	
DST	151.19	323	ePKP	23	16.00	4.7X	
ZAG	151.20	346	ePKP	23	11.50	0.4	
AVF	151.22	4	ePKP	23	11.00	-0.1	
LJU	151.29	348	ePKP	23	11.50	0.3	
			i	23	17.40		
KGT	151.35	326	iPKP	23	17.40	5.9X	
SMF	151.39	4	ePKP	23	11.50	0.1	
BGF	151.41	5	ePKP	23	11.60	0.2	
VOY	151.42	349	ePKP	23	11.20	-0.3	
			i	23	17.10		
KHL	151.49	320	ePKP	23	18.50	6.6X	
LSF	151.58	7	ePKP	23	11.60	-0.1	
CEY	151.60	348	ePKP	23	11.60	-0.1	
			i	23	17.20		
TCF	151 61	6	ePKP	23	11.80	0.0	
VBY	151.66	347	ePKP	23	13.20	1.4	
			i	23	18.70		
CTI	151.75	352	PKP	23	20.00	7.9X	
RIY	151.99	348	ePKP	23	12.80	0.6	
VAI	152.19	357	PKP	23	14.00	1.5	
MDI	152.21	355	PKP	23	13.00	0.5	
EZN	152.32	326	ePKP	23	19.20	6.3X	
ORO	152.47	358	PKP	23	21.00	7.9X	
LPL	152.61	360	ePKP	23	14.20	0.7	
LPG	152.62	360	ePKP	23	14.30	0.7	
	1.4s		19.60nm				
LFF	152.76	9	ePKP	23	13.80	0.4	
	1.4s		43.55nm				
IZM	152.79	322	ePKP	23	21.00	7.3X	
SSB	152.80	3	PKP	23	21.69	8.2X	
SKO	152.94	335	ePKP	23	13.90	0.2	
			i	23	33.00		
VAY	153.00	333	ePKP	23	13.00	-0.8	
BNI	153.07	360	PKP	23	17.00	3.0X	
LPO	153.07	8	ePKP	23	14.20	0.4	
BOB	153.24	355	PKP	23	21.00	6.8X	
CKI	153.65	357	PKP	23	26.00	11.3X	
SFI	153.81	351	PKP	23	18.30	3.5X	
BDI	153.83	353	PKP	23	22.00	7.0X	
OHR	153.92	335	ePKP	23	13.00	-2.2	
FIR	154.03	352	ePKP	23	25.00	9.9X	
ARV	154.04	349	PKP	23	18.00	2.8X	
CRE	154.08	351	PKP	23	25.00	9.6X	
CDR	154.44	1	ePKPd	23	19.60	3.9X	
			e	23	39.00		
ASS	154.51	349	PKP	23	20.00	4.1X	
BRT	155.44	340	PKP	23	19.00	1.8	
DUI	155.49	345	PKP	23	19.50	2.2	
SDI	155.59	347	PKP	23	19.00	1.6	
SGO	156.30	343	PKP	23	18.00	-0.3	
TDS	156.82	340	PKP	23	19.00	-0.1	
IFR	161.41	32	iPKPd	23	27.50	3.0X	
BCAO	162.05	223	iPKPc	23	26.50	1.0	
	0.8s		12.00nm				
			id	24	12.60		
LIC	163.75	135	PKP	23	26.80	-0.4	
	Z 21s		0.65um			6.1MszX	
KIC	164.05	135	PKP	23	27.10	-0.4	
TIC	164.06	134	PKP	23	27.20	-0.3	
	S.D. = 1.0		on 155 of 209 obs.				

* JAN 12, 1991 07h 28m 29.28± 1.24s
31.579 S ± 7.3km 71.870 W ±13.3km
DEPTH = 47.7 ± 11.5 km
4.6mb (2 obs.)
NEAR COAST OF CENTRAL CHILE (135)

IHA	1.46	172	iPd	28	53.30	-0.2	
			iS	29	15.02		
ROCH	1.57	153	iPd	28	55.10	-0.2	
			iS	29	16.50		
LCCH	1.91	172	iPc	28	59.50	-0.4	
SAN	2.13	152	iP	29	03.20	0.1	
			iS	29	31.60		
FCH	2.20	143	iPc	29	04.50	0.2	
			iS	29	32.50		
TACH	2.21	159	iPc	29	04.20	-0.1	
			iS	29	30.00		
PCH	2.34	151	iPc	29	06.00	-0.1	
			iS	29	36.50		
LNV	2.40	171	iPc	29	06.50	-0.4	
			i	29	08.00		
RTRS	2.50	56	iPc	29	11.00	2.7	
MDZ	2.87	118	iP	29	17.40	3.7X	
			iS	29	52.10		
RTLL	2.92	86	ePd	29	16.00	1.7	
CYA	6.12	61	ePc	29	58.00	-1.6	
ARE	15.05	1	eP	32	08.00	7.2X	
CNCB	15.12	14	P	32	01.00	-1.0	
LPB	15.37	14	P	32	10.00	5.0X	
ZOBO	15.62	13	P	32	08.00	-0.4	
	Z 20s		0.26um				
			LR	37	24.00		
PPD	20.64	68	eP	33	05.10	-2.2	
			e	33	15.00		
VAO	23.68	75	eP	33	37.90	0.4	
			e	34	24.80		
			e	41	22.20		
BAO	26.94	59	ePc	34	06.80	-1.5	
LIC	73.88	72	P	40	01.22	-0.1	
TIC	74.13	72	P	40	02.64	-0.2	
KIC	74.20	72	Pc	40	03.18	0.0	
	0.8s		15.50nm			5.0mb	
TNP	81.18	325	(P)	40	41.00	-0.5	
YKA	99.81	341	eP	42	10.80	1.7	
	0.7s		0.50nm			4.2mb	
GBA	146.66	115	PKP	48	08.40	2.2	
HYB	149.73	111	ePKP	48	16.50	5.4X	
	S.D. = 1.3		on 22 of 26 obs.				

* JAN 12, 1991 07h 51m 28.09± 0.82s
14.737 N ± 7.9km 119.272 E ±13.7km
DEPTH = 33.0km (normal)
4.4mb (4 obs.)
LUZON, PHILIPPINE ISLANDS (249)

PGP	2.04	127	ePd	52	01.00	0.2	
			iS	52	34.00		
SZP	3.02	22	iPd	52	14.00	-0.7	
			iS	52	53.00		
PIP	3.79	20	eP	52	25.50	-0.1	
CVP	3.83	39	eP	52	27.00	0.8	
			eS	53	15.00		
ASPA	40.76	159	eP	59	07.50	-0.4	
	0.4s		9.70nm			4.9mb	
HFS	84.90	331	eP	04	01.30	0.5	
	0.5s		1.00nm			4.3mb	
NB2	85.71	332	P	04	05.40	0.5	
	0.9s		3.20nm			4.5mb	
YKA	92.35	22	eP	04	35.40	-0.8	
	0.7s		0.60nm			4.1mb	
	S.D. = 0.7		on 8 of 8 obs.				

& JAN 12, 1991 08h 19m 34.45s
59.979 N 152.322 W
DEPTH = 92.0km
2.9mb (1 obs.)
SOUTHERN ALASKA (2)
<AEIC>.

INE	0.38	283	eP	19	48.18	-0.8	
			eS	19	58.90		
HOM	0.47	133	eP	19	49.21	-0.2	
			eS	20	00.81		
RED	0.50	333	iP	19	48.97	-0.7	
NNL	0.52	83	iP	19	50.06	0.3	
RSO	0.53	336	iP	19	49.48	-0.6	
			eS	20	01.25		
RS2	0.53	336	iP	19	49.55	-0.6	
REF	0.55	340	iP	19	49.61	-0.6	

			eS	20	01.48	
OPT	0.56	235	iP	19	49.47	-0.7
			eS	20	01.68	
RDN	0.58	338	iP	19	49.80	-0.6
			eS	20	01.70	
RDT	0.60	356	iP	19	49.67	-0.9
			eS	20	01.68	
XLV	0.61	150	eP	19	49.64	-0.9
			eS	20	01.89	
NCT	0.66	333	eP	19	50.26	-0.9
CNPM	0.71	129	iP	19	50.91	-0.6
			eS	20	03.65	
BRLK	0.76	106	iP	19	51.23	-0.7
			eS	20	04.59	
AUP	0.83	222	eP	19	52.03	-0.8
AUH	0.84	223	eP	19	52.11	-0.8
AUI	0.86	221	eP	19	52.04	-0.9
			eS	20	04.83	
NKA	0.94	35	iP	19	54.96	1.1
PDB	0.96	259	iP	19	53.13	-1.0
SLKM	1.17	62	eP	19	55.71	-1.0
SPU	1.21	6	iP	19	56.63	-0.5
CKL	1.22	360	iP	19	56.74	-0.6
BGL	1.29	359	iP	19	57.66	-0.5
CRP	1.30	4	eP	19	58.02	-0.3
MCNL	1.30	233	eP	19	56.71	-1.4
			eS	20	13.66	
CGLM	1.34	7	iP	19	58.29	-0.5
SYI	1.37	182	iP	19	58.21	-0.8
			eS	20	16.87	
NCG	1.43	3	iP	19	59.40	-0.5
SEW	1.45	84	eP	19	58.59	-1.4
SUA	1.68	27	iP	20	02.64	-0.5
			eS	20	25.15	
SKT	2.05	11	iP	20	06.88	-1.0
KDC	2.24	182	eP	20	08.13	-2.3
LTI	2.24	86	eP	20	08.81	-1.7
PLRM	2.25	43	eP	20	09.30	-1.3
KNIM	2.32	79	eP	20	09.12	-2.5
MTU	2.35	88	eP	20	10.41	-1.5
KNK	2.38	51	eP	20	10.51	-1.9
GHO	2.45	41	eP	20	11.59	-1.8
CUT	2.63	21	eP	20	14.59	-1.1
GLI	2.75	69	eP	20	15.49	-1.9
VZW	3.05	67	eP	20	19.43	-2.1
KLU	3.49	61	eP	20	25.23	-2.4
TOA	3.67	52	eP	20	27.49	-2.7
RND	3.82	24	eP	20	30.67	-1.5
TZL	3.95	55	eP	20	31.70	-2.1
SDG	4.15	49	eP	20	34.70	-2.1
BWN	4.42	16	eP	20	39.34	-1.0
GLB	4.43	67	eP	20	37.71	-2.9
PAX	4.45	45	eP	20	38.87	-2.1
TGL	4.78	77	eP	20	43.24	-2.2
BALM	5.04	74	eP	20	47.44	-1.8
CCB	5.14	22	eP	20	47.49	-2.8
YAH	5.30	81	eP	20	51.04	-1.8
MDM	5.35	19	eP	20	50.76	-2.6
FBA	5.37	21	eP	20	51.30	-2.3
CTGM	5.53	75	eP	20	54.62	-1.3
YKA	18.15	66	eP	23	38.70	-2.8
	0.4s		0.30nm			2.9mb
	57 obs. associated					

JAN 12, 1991 09h 05m 32.74± 0.40s
40.607 N ± 3.6km 23.828 E ± 3.6km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 2.8 (ATH), 2.5 (THE).

OUR	0.30	157	iPc	05	38.90	0.0
			eS	05	42.80	
PLG	0.37	232	ePg	05	40.20	-0.2
SOH	0.42	301	ePd	05	41.41	0.1
			eS	05	47.60	
SRS	0.54	341	ePd	05	43.20	-0.5
			eS	05	51.44	
THE	0.66	273	ePc	05	46.68	0.9
			eS	05	54.84	
PAIG	0.69	190	iPc	05	45.82	-0.5
			eS	05	55.08	
KNT	0.90	308	ePd	05	50.80	0.9
			eS	06	03.16	
MMB	0.98	356	iPgc	05	51.00	-0.4
			iSg	06	04.00	
GRG	1.14	288	ePc	05	55.08	1.0
			eS	06	09.88	
LIT	1.14	244	iPc	05	54.20	0.1
			eS	06	10.36	
VAY	1.19	307	ePn	05	50.30	-4.6X
			i	05	55.80	
RZN	1.27	32	eP	05	56.00	-0.5
			S	06	12.00	
NEO	1.38	200	ePg	05	58.00	0.0
RDO	1.40	67	ePb	05	58.50	0.2
			eSb	06	25.20	
KDZ	1.59	48	iPd	06	01.00	0.0
KZN	1.60	260	ePb	06	01.50	0.3
			eSb	06	25.20	
ALN	1.71	80	ePc	06	03.64	0.9
			eS	06	26.52	
OHR	2.35	283	ePn	06	10.00	-2.1
	S.D. = 0.8		on	17	of 18 obs.	

& JAN 12, 1991 09h 18m 38.70s
59.844 N 153.411 W
DEPTH = 132.7km
SOUTHERN ALASKA (2)
<AEIC>.

OPT	0.21	154	iP	18	56.54	0.9
INE	0.28	39	eP	18	56.60	0.6
			eS	19	11.16	
PDB	0.40	262	iP	18	56.77	-1.0
			eS	19	10.91	
AUH	0.48	182	eP	18	57.70	-0.6
AUP	0.48	181	eP	18	57.91	-0.4
AUI	0.51	181	eP	18	57.70	-0.7
RED	0.66	29	eP	18	58.57	-0.9
			eS	19	14.44	
RS2	0.70	27	eP	18	59.10	-0.8
			eS	19	14.79	
RSO	0.70	28	eP	18	59.22	-0.7
			iS	19	14.94	
REF	0.74	28	eP	18	59.55	-0.6
RDN	0.75	25	eP	18	59.57	-0.6
NCT	0.76	18	eP	18	59.37	-0.8
			eS	19	15.91	
MCNL	0.81	216	eP	18	59.47	-1.0
RDT	0.89	34	eP	19	00.27	-0.9
XLV	0.94	114	eP	19	00.61	-1.0
NNL	1.08	79	eP	19	03.03	0.1
CNPM	1.15	105	iP	19	02.55	-1.0
BRLK	1.28	92	iP	19	03.93	-1.0
SYI	1.34	157	eP	19	04.38	-1.2
			eS	19	24.36	
NKA	1.41	49	eP	19	07.10	0.8
CKL	1.46	21	iP	19	06.19	-0.8
			eS	19	28.16	
SPU	1.50	26	eP	19	06.38	-1.0
			eS	19	28.62	
BGL	1.51	19	eP	19	06.91	-0.7
CGLM	1.62	25	eP	19	07.90	-1.0
			eS	19	30.79	
NCG	1.68	21	eP	19	08.82	-0.7
SLKM	1.73	66	eP	19	09.02	-1.0
SEW	2.01	81	eP	19	12.04	-1.3
SKT	2.33	22	eP	19	16.10	-1.3
PLRM	2.74	48	eP	19	20.43	-2.1
KNIM	2.89	77	eP	19	22.44	-2.1
KNK	2.90	55	eP	19	22.11	-2.7
GHO	2.93	47	eP	19	22.59	-2.6
CUT	2.99	29	eP	19	24.18	-1.6
VZW	3.61	67	eP	19	32.27	-1.8
VLZ	3.73	67	eP	19	32.95	-2.7
KLU	4.04	63	eP	19	37.16	-2.7
	36 obs. associated					

* JAN 12, 1991 09h 29m 53.04± 0.84s
4.744 N ±13.5km 96.073 E ± 9.8km
DEPTH = 33.0km (normal)
4.7mb (4 obs.)
NORTHERN SUMATERA (706)

IPM	4.94	92	ePd	31	06.60	-0.3
	0.9s		46.20nm			
			e	31	58.20	
			e	33	05.40	
SNG	5.12	62	eP	31	09.60	0.1
CHG	14.26	11	eP	33	15.00	0.2
GBA	20.38	297	P	34	29.70	-0.1
			S	37	49.70	
HYB	21.28	308	eP	34	38.90	-0.2
GYA	23.85	24	P	35	06.60	2.1
KKN	25.12	337	P	35	11.20	-5.6X
CD2	27.01	15	P	35	34.80	0.7
XAN	31.50	21	P	36	13.00	-1.2
GTA	34.67	5	eP	36	39.40	-2.5
	0.6s		10.00nm			4.9mb
			pP	36	53.40	55kmX
TIY	36.06	22	eP	36	57.90	4.3X
HHC	38.55	19	eP	37	20.30	5.8X
BJI	39.54	24	eP	37	23.00	0.4
ASPA	46.45	129	eP	38	18.30	-0.7
	1.0s		9.30nm			4.7mb
BCAO	77.25	273	iPd	41	48.00	1.6
	0.5s		5.00nm			4.8mb
SLL	82.32	330	eP	42	10.70	-1.9
	0.4s		0.90nm			4.2mb
FBA	96.48	23	(P)	43	22.00	1.8
PPD	144.05	238	e(PKP)	49	28.00	0.1
	S.D. = 1.4		on	15	of 18 obs.	

JAN 12, 1991 09h 33m 40.65± 0.43s
24.452 S ± 5.7km 69.316 W ±10.4km
DEPTH = 82.2km (3 depth phases)
4.6mb (5 obs.)
NORTHERN CHILE (123)

RTLL	6.89	174	ePc	35	20.40	-0.6
CCH	7.63	23	P	35	33.90	2.4X
CNCB	7.71	10	P	35	32.20	-0.6
LPB	7.96	8	P	35	37.00	0.9
	0.9s		87.39nm			5.5mb
			i	35	43.80	
ARE	8.21	345	iP	35	35.00	-4.4X
ZOBO	8.22	8	Pd	35	38.90	-0.9
	Z 22s		0.16um			
			LR	38	40.00	
MDZ	8.41	177	eP	35	43.20	1.3
			e	36	13.30	
			e	36	24.50	
LNV	9.64	190	eP	35	57.00	-1.6
NNA	14.30	329	eP	37	07.50	6.9X
	1.0s		14.00nm			4.2mb
			e	40	36.50	
PPD	16.72	85	eP	37	30.30	-0.9
VAO	20.51	91	eP	38	15.70	1.2
			e	38	16.10	2kmX
SOB1	31.05	66	(P)	39	53.00	0.0
SPA	65.69	180	iPd	44	19.50	1.1
	1.0s		11.50nm			4.8mb
			i	44	41.50	85km
ALQ	68.77	328	ePc	44	38.50	0.4
	0.7s		4.11nm			4.4mb
			e	44	59.00	78km
ANMO	68.77	328	P	44	38.00	-0.1
KIC	69.90	73	P	44	44.00	-1.2
TNP	76.74	323	P	45	25.30	0.4
			pP	45	47.40	83km
LRM	80.16	331	eP	45	44.20	0.7
YKA	93.83	341	eP	46	48.50	-0.8
	0.6s		1.40nm			4.6mb
ASPA	127.13	207	ePKP	52	36.00	-1.6
	0.6s		4.40nm			
WRA	130.22	210	PKP	52	43.00	-0.5
	0.7s		1.60nm			
KOD	145.40	108	ePKP	53	13.30	1.5
GBA	146.85	103	PKPd	53	15.10	1.4
	0.8s		5.50nm			
	S.D. = 1.1		on	20	of 23 obs.	

JAN 12, 1991 10h 10m 51.16± 0.46s
40.527 N ± 4.1km 22.552 E ± 4.2km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 2.9 (ATH), 2.4 (THE).

THE	0.33	71	ePc	10	58.30	0.3
			eS	11	03.34	
LIT	0.43	186	iPc	10	59.42	-0.5
			eS	11	06.18	
GRG	0.44	345	iPc	10	59.46	-0.8
			iS	11	06.78	
KZN	0.64	250	ePb	11	02:20	-1.8
SOH	0.68	64	iPd	11	04.74	0.1
			eS	11	14.70	
KNT	0.69	22	iPd	11	04.37	-0.4
			iS	11	14.86	
PLG	0.70	102	ePb	11	05.20	0.2
			eSb	11	16.00	

12d 10h

VAY	0.79	1	iPg	11	05.80	-0.8
			iSg	11	18.70	
FNA	0.93	286	iPd	11	09.46	0.5
SRS	0.99	53	ePc	11	10.18	0.3
			eS	11	25.30	
PAIG	1.05	124	ePd	11	11.10	0.1
			eS	11	26.14	
NEO	1.32	157	ePb	11	15.00	-0.6
MMB	1.38	40	iPc	11	16.00	-0.5
OHR	1.45	294	ePn	11	20.00	2.5
AGG	1.51	187	ePc	11	19.26	0.9
			eS	11	41.02	
SKO	1.67	330	ePn	11	25.50	4.9X
RZN	2.01	54	iPc	11	26.00	0.4

S.D. = 1.0 on 16 of 17 obs.

% JAN 12, 1991 10h 50m 20.65± 1.04s
26.419 S ± 7.9km 27.174 E ± 9.5km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)

KSR	0.61	336	eP	50	32.80	0.0
SLR	1.21	56	eP	50	43.50	-0.2
			S	50	57.00	
EVA	1.71	93	eP	50	51.30	-0.1
			S	51	13.00	
SEK	1.94	168	eP	50	54.70	0.0
			S	51	17.50	
BFT	2.68	75	eP	51	05.80	0.3

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

% JAN 12, 1991 12h 22m 23.18± 0.96s
39.285 N ± 8.0km 27.802 E ±10.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.5 (ISK).

DST	0.72	63	ePg	22	37.00	-0.3
			eSg	22	50.00	
IZM	0.98	206	ePg	22	42.00	0.2
KCT	1.05	24	ePn	22	44.70	1.7
BNT	1.07	5	ePn	22	42.70	-0.7
KGT	1.23	342	iPn	22	45.70	-0.3
IZI	1.66	50	ePn	22	52.00	-0.5

S.D. = 1.1 on 6 of 6 obs.

& JAN 12, 1991 12h 30m 50.13s
60.163 N 152.998 W
DEPTH = 121.0km
SOUTHERN ALASKA (2)
<AEIC>.

INE	0.11	198	eP	31	06.21	0.7
			eS	31	19.54	
RED	0.28	24	iP	31	06.66	0.8
RS2	0.32	22	iP	31	07.06	0.9
RSO	0.32	22	iP	31	07.00	0.8
REF	0.36	24	iP	31	07.19	-0.7
RDN	0.37	18	iP	31	07.16	-0.7
NCT	0.40	5	iP	31	07.37	-0.7
RDT	0.51	35	eP	31	07.77	-0.8
OPT	0.53	193	iP	31	07.89	-0.7
			eS	31	21.42	
PDB	0.71	238	iP	31	08.83	-1.1
			eS	31	23.85	
AUE	0.83	193	eP	31	09.92	-1.0
AUP	0.83	195	eP	31	10.11	-0.9
AUH	0.83	196	eP	31	10.14	-0.9
HOM	0.85	126	eP	31	10.68	-0.4
			eS	31	26.33	
AUI	0.86	195	eP	31	10.20	-1.0
NNL	0.86	97	eP	31	11.26	0.0
XLV	0.96	137	eP	31	10.92	-1.2
NKA	1.05	56	eP	31	13.89	0.9
CKL	1.09	17	iP	31	12.88	-0.7
CNPM	1.10	125	iP	31	12.72	-0.8
			eS	31	30.30	
SPU	1.12	24	eP	31	13.03	-0.8
BRLK	1.14	110	eP	31	13.21	-0.8
BGL	1.14	15	eP	31	13.63	-0.5
MCNL	1.19	215	eP	31	13.08	-1.5
CGLM	1.25	23	eP	31	14.37	-0.9
NCG	1.31	18	eP	31	15.31	-0.7
SLKM	1.42	75	eP	31	15.74	-1.4
SYI	1.59	168	eP	31	17.24	-1.8
SUA	1.71	39	eP	31	19.77	-0.9
SEW	1.78	90	eP	31	19.53	-1.7
SKT	1.96	21	eP	31	22.68	-0.9
KNK	2.56	59	eP	31	29.20	-2.1
GHO	2.56	49	eP	31	29.43	-2.0
LTI	2.58	91	eP	31	29.70	-1.8
CUT	2.61	29	eP	31	30.56	-1.3
KNIM	2.63	84	eP	31	29.24	-3.0
GLI	3.01	74	eP	31	35.52	-1.7

37 obs. associated

• JAN 12, 1991 12h 33m 44.47± 1.46s
7.027 N ±12.3km 76.511 W ±25.7km
DEPTH = 33.0km (normal)
3.7mb (1 obs.)
NORTHERN COLOMBIA (99)

HOBC	2.68	172	iPd	34	25.62	-0.8
			eS	34	53.60	
BUGC	3.12	175	eP	34	32.56	-0.1
			eS	35	06.10	
CLMC	3.13	181	iPd	34	32.47	-0.3
			eS	35	05.60	
ANCC	3.51	186	iPd	34	37.21	-0.9
HOOC	3.54	182	eP	34	37.32	-1.4
			eS	35	14.10	
UPA	3.57	303	(P)	34	38.50	-0.4
DIAC	3.72	175	eP	34	41.35	0.1
ECO	3.91	307	iP	34	44.40	0.6
SALC	4.03	183	eP	34	45.76	0.1
SILC	4.31	178	eP	34	50.74	0.9
			eS	35	37.20	
PURC	4.68	178	eP	34	57.41	2.3
YKA	61.94	341	eP	44	02.90	-0.3
	0.6s		0.40nm		3.7mb	

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

& JAN 12, 1991 13h 04m 13.67s
57.670 N 154.118 W
DEPTH = 56.6km
3.2mb (1 obs.)
KODIAK ISLAND REGION (13)
<AEIC>.

KDC	0.88	84	eP	04	29.30	-0.7
			eS	04	40.90	
SYI	1.31	43	eP	04	35.02	-1.0
			eS	04	52.26	
MCNL	1.52	356	eP	04	37.97	-1.0
			eS	04	56.04	
AUI	1.71	12	eP	04	41.02	-0.5
AUH	1.74	11	eP	04	41.64	-0.3
AUP	1.74	12	eP	04	41.65	-0.4
AUE	1.74	13	eP	04	41.47	-0.5
BGM	1.82	342	eP	04	42.17	-1.0
OPT	2.04	13	eP	04	45.73	-0.5
			eS	05	09.96	
PDB	2.12	359	eP	04	45.99	-1.4
			eS	05	11.19	
HOM	2.38	32	eP	04	49.44	-1.5
CNPM	2.40	38	eP	04	49.83	-1.4
INE	2.46	12	eP	04	51.12	-1.1
			eS	05	18.95	
BRLK	2.69	37	eP	04	53.28	-2.2
NNL	2.79	30	eP	04	55.79	-1.1
RED	2.84	14	eP	04	56.79	-0.9
RSO	2.89	14	eP	04	56.61	-1.8
RS2	2.89	14	eP	04	56.87	-1.5
REF	2.92	14	eP	04	57.26	-1.6
RDN	2.94	13	eP	04	58.04	-1.0
NCT	2.96	11	eP	04	57.65	-1.8
RDT	3.04	16	eP	04	58.86	-1.6
NKA	3.42	24	eP	05	05.57	-0.1
SEW	3.44	43	eP	05	02.44	-3.5
SLKM	3.48	34	eP	05	03.93	-2.7
SVW	3.53	348	eP	05	05.93	-1.4
CKL	3.65	14	eP	05	07.33	-1.8
SPU	3.68	16	eP	05	07.91	-1.5
BGL	3.71	13	eP	05	08.12	-1.8
CGLM	3.80	16	eP	05	09.45	-1.8
NCG	3.88	14	eP	05	10.43	-1.8
SUA	4.17	23	eP	05	14.60	-1.8
KNIM	4.25	48	eP	05	14.07	-3.4
SKT	4.52	16	eP	05	20.19	-0.9
KNK	4.73	35	eP	05	20.49	-3.7
GLI	4.83	45	eP	05	21.09	-4.5
GHO	4.88	30	eP	05	23.84	-2.5
CUT	5.13	20	eP	05	28.57	-1.1
VZW	5.15	46	eP	05	25.86	-4.2
VLZ	5.28	46	eP	05	28.10	-3.7
YKA	20.05	60	eP	08	40.90	-3.4
	0.9s		1.10nm		3.2mb	

41 obs. associated

% JAN 12, 1991 13h 12m 52.86± 0.84s
39.135 N ± 6.9km 27.591 E ±11.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

IZM	0.78	199	ePg	13	08.00	-0.1
			eSg	13	19.80	
DST	0.93	59	iPn	13	10.50	-0.2
BNT	1.25	12	ePn	13	15.70	-0.3
KCT	1.26	28	ePn	13	16.00	-0.3
KGT	1.33	351	iPn	13	17.70	0.3
IZI	1.88	50	ePn	13	26.00	0.6

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

• JAN 12, 1991 13h 18m 30.73± 0.82s
39.286 N ± 9.7km 15.261 E ±10.3km
DEPTH = 295.0 ± 9.1 km
3.9mb (14 obs.)
SOUTHERN ITALY (390)

TDS	0.91	66	P	19	10.00	-0.2
			eSn	19	36.00	
MSI	1.11	168	P	19	09.50	-1.8
ORI	1.20	49	P	19	11.80	-0.1
			eSn	19	38.00	
SGO	1.27	2	P	19	12.00	-0.2
MNO	1.42	198	P	19	13.90	0.4
GIB	1.62	217	P	19	14.90	0.3
			eSn	19	46.50	
MCT	2.09	218	P	19	20.10	1.8
BRT	2.18	43	P	19	17.80	-1.1
MEU	2.20	187	P	19	19.10	0.0
LCI	2.32	62	P	19	20.30	0.2
ASS	4.26	333	P	19	41.50	1.4
SFI	5.29	332	P	19	55.00	3.1X
FVI	7.53	347	P	20	25.00	6.0X
SQTA	8.46	341	iPd	20	33.20	2.5
	0.4s		20.70nm		4.5mb	
			ic	20	33.30	
			i	20	34.50	
BNI	8.59	315	P	20	38.00	5.6X
LPG	8.84	317	eP	20	38.60	3.0X
	0.5s		5.45nm		3.8mb	
LPL	8.86	317	eP	20	38.90	3.1X
	0.5s		3.65nm		3.7mb	
RSL	9.03	318	P	20	40.23	2.4
FEL	10.06	331	eP	20	50.79	0.2
BSF	10.52	327	eP	20	50.80	-5.4X
	0.5s		4.35nm		3.9mb	
CDF	10.78	330	eP	20	52.50	-7.0X
	0.4s		2.85nm		3.8mb	
HAU	10.84	326	eP	20	55.80	-4.3X
	0.4s		4.00nm		4.0mb	
SMF	11.13	315	eP	21	02.80	-0.9
	0.6s		4.05nm		3.8mb	
LBF	11.27	317	eP	21	05.40	0.0
AVF	11.49	315	eP	21	07.20	-0.9
LOR	11.51	318	eP	21	06.90	-1.5
	0.5s		2.20nm		3.6mb	
SSF	11.57	316	eP	21	07.80	-1.3
LDF	14.45	315	eP	21	43.50	-0.5
	0.5s		8.00nm		4.3mb	
LPF	14.66	312	eP	21	46.60	0.1
	0.5s		4.35nm		4.0mb	
FLN	14.74	315	eP	21	46.10	-1.4
	0.6s		8.10nm		4.2mb	
GRR	14.74	313	eP	21	46.80	-0.7
HFS	20.89	358	eP	22	51.00	0.1
	0.4s		2.30nm		3.9mb	
Z	16s		0.11um		3.3MszX	
			LR	31	29.00	
NB2	21.92	355	P	23	01.00	0.0
	0.4s		0.90nm		3.5mb	
YKA	70.88	338	eP	29	18.50	1.3
	0.4s		0.30nm		3.4mb	

S.D. = 1.2 on 26 of 34 obs.

% JAN 12, 1991 13h 40m 46.91± 0.88s
39.112 N ± 8.0km 27.648 E ±13.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

MD 2.4 (ISK).

IZM	0.77	203	ePg	41	02.00	0.0
			eSg	41	15.00	
DST	0.91	57	ePn	41	04.50	0.2
BNT	1.26	9	ePn	41	10.20	-0.1
KCT	1.26	25	ePn	41	10.00	-0.3
KGT	1.36	349	iPn	41	12.20	0.3

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

% JAN 12, 1991 14h 14m 13.27± 0.84s
3.750 N ± 7.6km 76.619 W ±11.2km
DEPTH = 33.0km (normal)
COLOMBIA (103)

MD 3.1 (UVC).

CLMC	0.14	23	iPc	14	19.50	-0.1
			eS	14	23.50	
HOQC	0.28	183	iPd	14	20.11	-1.0
			eS	14	24.60	
ANCC	0.34	227	ePc	14	21.46	-0.1
			eS	14	26.90	
BUGC	0.39	68	iPd	14	22.15	-0.2
			eS	14	28.10	
DIAC	0.62	137	iPd	14	24.83	-0.9
			eS	14	32.70	
HOBC	0.77	39	eP	14	28.21	0.4
			eS	14	38.70	
SALC	0.78	186	iPd	14	27.71	-0.2
			eS	14	37.90	
SILC	1.09	165	ePc	14	33.09	0.4
PURC	1.44	170	eP	14	39.40	1.6

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

% JAN 12, 1991 14h 35m 48.35± 1.04s
44.754 N ± 5.9km 6.912 E ±10.4km
DEPTH = 10.0km (geophysicist)
FRANCE (538)

ML 1.8 (GEN).

RRL	0.19	331	P	35	53.26	0.6
			S	35	56.75	
BHB	0.27	71	P	35	55.21	1.2
			S	35	59.82	
PZZ	0.28	151	P	35	54.18	-0.2
			S	35	58.29	
RSP	0.47	32	P	35	56.44	-1.4
			S	36	06.69	
STV	0.59	150	P	35	59.82	-0.5
			S	36	07.10	
ENR	0.64	145	P	36	01.47	0.2
			S	36	09.46	
ROB	0.83	123	P	36	04.44	0.1

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

& JAN 12, 1991 14h 45m 20.84s
61.490 N 149.644 W
DEPTH = 39.6km
SOUTHERN ALASKA (2)
<AEIC>. ML 3.1 (PMR).

PLRM	0.27	67	iP	45	28.02	-0.7
			eS	45	34.09	
PMR	0.27	67	iPc	45	28.10	-0.6
GHO	0.45	50	iP	45	30.08	-0.9
			iS	45	37.96	
SUA	0.53	268	iP	45	31.39	-0.7
			eS	45	40.38	
KNK	0.58	97	iP	45	32.02	-0.6
			eS	45	41.28	
CUT	0.96	342	iP	45	37.02	-1.0
SKT	1.02	300	iP	45	38.20	-0.7
			eS	45	51.95	
SLKM	1.02	196	eP	45	38.23	-0.7
			eS	45	53.13	
NKA	1.08	227	eP	45	41.03	1.4
CGLM	1.15	262	iP	45	40.54	-0.3
			eS	45	56.49	
SPU	1.20	256	iP	45	41.06	-0.4
			eS	45	57.88	
NCG	1.21	267	iP	45	41.53	-0.1
			eS	45	57.87	
CRP	1.23	261	eP	45	42.43	0.4
BGL	1.34	261	iP	45	43.27	-0.3
GLI	1.38	115	iP	45	43.23	-0.7
			eS	46	01.21	
SEW	1.39	176	eP	45	43.15	-1.0
KNIM	1.48	140	iP	45	43.86	-1.5
HUR	1.49	0	eP	45	45.23	-0.4
			eS	46	04.35	
VZW	1.55	105	eP	45	45.78	-0.7
RDT	1.63	237	iP	45	47.05	-0.5
VLZ	1.64	101	eP	45	46.64	-0.9
			eS	46	08.04	
NNL	1.66	210	eP	45	48.34	0.3
LTI	1.70	148	eP	45	46.87	-1.6
TOA	1.76	68	eP	45	49.58	0.1
			eS	46	13.32	
KLU	1.79	88	iP	45	48.78	-1.1
			eS	46	12.18	
MTU	1.80	146	eP	45	48.59	-1.3
REF	1.80	237	eP	45	48.93	-1.2
RDN	1.81	239	eP	45	48.30	-1.9
RSO	1.83	237	eP	45	50.17	-0.5
			eS	46	13.29	
RS2	1.83	237	eP	45	50.28	-0.4
			eS	46	12.46	
BRLK	1.84	200	eP	45	49.67	-0.8
NCT	1.85	241	eP	45	50.32	-0.5
			eS	46	14.27	
RED	1.87	236	eP	45	50.46	-0.6
HIN	1.89	124	eP	45	50.39	-0.8
RND	1.96	10	eP	45	51.67	-0.7
TZL	2.08	73	eP	45	53.83	-0.2
HOM	2.09	209	eP	45	54.75	0.7
CVA	2.12	115	eP	45	54.67	0.1
CNPM	2.12	202	eP	45	53.62	-1.0
			eS	46	22.51	
SDG	2.20	60	eP	45	55.89	0.2
			eS	46	21.98	
INE	2.21	231	eP	45	55.46	-0.5
SGAM	2.38	113	eP	45	56.54	-1.7
PAX	2.46	51	eP	45	59.73	0.3
			eS	46	28.24	
OPT	2.56	225	eP	46	01.03	0.2
RAGM	2.67	112	eP	46	04.07	1.7
BWN	2.69	2	eP	46	02.24	-0.5
GLB	2.80	88	eP	46	02.86	-1.4
PDB	2.82	235	eP	46	03.09	-1.4
HMT	2.87	111	eP	46	03.26	-2.0
SVW	2.91	265	iPc	46	04.40	-1.4
HDA	3.17	22	eP	46	09.09	-0.4
CCB	3.28	14	eP	46	09.46	-1.5
TTA	3.31	299	iPc	46	09.80	-1.8
TGL	3.39	100	eP	46	12.13	-0.5
WAX	3.47	105	eP	46	12.13	-1.7
FBA	3.52	13	ePd	46	13.40	-1.1
MDM	3.54	10	eP	46	13.37	-1.4
BALM	3.56	94	eP	46	13.60	-1.4
CTGM	4.05	94	eP	46	22.35	0.2
IMA	4.93	340	eP	46	32.90	-1.6

60 obs. associated

% JAN 12, 1991 15h 11m 42.41± 0.77s
40.310 N ± 9.4km 29.196 E ± 6.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

MD 2.7 (ISK).

IZI	0.21	83	iPg	11	47.10	0.0
			iSg	11	50.60	
YLV	0.29	28	iPg	11	48.50	0.0
			eSg	11	53.10	
KCT	0.65	265	ePg	11	55.00	-0.3
			iSg	12	04.20	
DST	0.83	212	iPg	11	58.50	0.0
			eSg	12	10.50	
BNT	0.98	273	iPg	12	01.30	0.3
			eSg	12	15.10	

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

JAN 12, 1991 15h 43m 36.98± 0.70s
37.126 N ± 6.5km 29.549 E ± 6.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

MD 3.7 (ATH), 3.5 (ISK).

ELL	0.47	142	iPg	43	46.80	0.1
			eSg	43	54.30	
BCK	0.89	68	ePn	43	54.00	-0.2
KSL	1.01	178	ePg	43	56.50	0.5
YER	1.01	271	iPn	44	02.50	6.3X
KHL	1.20	359	ePn	43	59.10	-0.2
CIN	1.26	293	ePg	44	00.00	-0.3
			iSg	44	13.00	
ARG	1.46	232	ePb	44	02.00	-1.4
			eSb	44	22.50	
ALT	1.98	13	ePn	44	15.00	4.1X
IZM	2.21	306	ePn	44	21.00	6.7X
SMG	2.24	286	ePb	44	16.00	1.4
IZI	3.21	359	ePn	44	40.00	11.6X
YLV	3.44	358	ePn	44	45.00	13.3X

S.D. = 1.0 on 7 of 12 obs.

? JAN 12, 1991 17h 03m 48.61± 1.24s
30.625 S ±11.1km 117.011 E ±11.8km
DEPTH = 10.0km (geophysicist)
WESTERN AUSTRALIA (590)

BAL	0.26	274	eP	03	53.80	-0.4
			iS	03	57.40	
KLB	1.16	147	eP	04	10.00	-0.3
			eS	04	24.00	
MUN	1.51	207	eP	04	16.20	0.4
			eS	04	35.40	
MRWA	1.66	328	eP	04	18.00	0.2
			eS	04	38.80	

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

• JAN 12, 1991 17h 48m 43.91± 1.87s
25.954 N ±10.5km 125.356 E ±12.5km
DEPTH = 149.6 ± 16.8 km
4.0mb (5 obs.)
SOUTHWESTERN RYUKYU ISLANDS (246)

SSE	6.30	325	P	50	15.50	-0.1
			e	52	08.00	
GUN	35.15	282	P	55	25.80	0.3
PKI	35.60	282	P	55	29.80	0.5
KKN	35.69	282	P	55	29.80	-0.1
DMN	35.86	282	P	55	31.00	-0.4
GKN	36.23	283	P	55	34.60	0.3
WRA	46.45	168	P	56	57.00	-0.5
	0.8s		4.60nm			4.2mb
ASPA	50.02	170	eP	57	25.30	0.3
	0.7s		4.80nm			4.3mb
KEV	68.74	338	eP	59	21.00	-12.0X
SOD	69.60	336	eP	59	38.00	-0.2
HFS	77.85	332	eP	00	25.20	-0.7
	0.4s		0.60nm			3.7mb
NB2	78.40	333	P	00	28.60	-0.4
	0.6s		1.50nm			3.9mb
YKA	79.85	24	eP	00	37.70	1.0
	0.7s		1.50nm			3.8mb

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

% JAN 12, 1991 18h 00m 40.07± 0.50s
40.699 N ± 5.5km 28.625 E ± 4.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

MD 2.7 (ISK).

ISK	0.49	42	iPg	00	49.60	-0.5
			iSg	00	56.60	
KCT	0.49	205	iPg	00	50.00	-0.1
			iSg	00	57.10	
YLV	0.58	103	iPg	00	52.10	0.1
			iSg	01	00.60	
BNT	0.64	238	iPg	00	52.50	-0.4
			iSg	01	02.10	
EDC	0.68	239	ePg	00	53.00	-0.5
IZI	0.74	119	iPg	00	54.60	-0.1
			iSg	01	05.10	
HRT	0.80	81	iPg	00	56.10	0.4
			iSg	01	08.10	
KGT	1.04	257	iPn	01	00.60	1.0
DMK	1.30	330	iPn	01	04.10	0.0

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

? JAN 12, 1991 18h 45m 13.69± 1.03s
3.007 N ±19.7km 128.511 E ±20.3km
DEPTH = 33.0km (normal)
4.6mb (3 obs.)
NORTH OF HALMAHERA (264)

MAP	8.55	328	eP	47	19.00	0.8
MTN	15.96	171	eP	49	13.00	15.4X
ASPA	27.03	169	eP	51	10.90	15.9X
	1.3s		4.10nm			
WHN	30.49	335	eP	51	27.00	1.1
CHG	32.92	301	eP	51	47.30	-0.1

12d 18h

MAT	34.55	14	eP	52 01.00	-0.3
XAN	35.87	332	P	52 11.10	-1.6
TIY	37.56	339	Pc	52 28.20	1.4
BJI	38.52	345	eP	52 33.50	-1.3
	1.0s	9.00nm		4.5mb	
LZH	40.03	328	eP	52 47.50	-0.1
	1.4s	27.00nm		4.8mb	
HHC	40.66	340	eP	52 53.00	0.4
GTA	44.64	328	iPd	53 24.80	-0.3
	1.2s	10.00nm		4.6mb	
DZM	44.67	126	iPc	53 26.00	0.4
WMO	54.34	324	P	54 39.20	-0.3

S.D. = 1.0 on 12 of 14 obs.

? JAN 12, 1991 20h 55m 50.34± 1.17s
30.824 S ±11.5km 117.071 E ±14.7km
DEPTH = 10.0km (geophysicist)
WESTERN AUSTRALIA (590)

BAL	0.38	305	eP	55 57.50	-0.7
			eS	56 02.00	
KLB	0.97	143	eP	56 08.40	-0.3
			iS	56 20.50	
MUN	1.37	212	eP	56 15.80	0.4
			eS	56 33.80	
MRWA	1.85	330	eP	56 23.00	0.6
			eS	56 46.00	

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

& JAN 12, 1991 21h 37m 26.05s
60.667 N 145.110 W
DEPTH = 18.9km
SOUTHERN ALASKA (2)
<AEIC>.

SGAM	0.17	196	iP	37 30.40	-0.4
			eS	37 34.73	
CVA	0.34	249	iP	37 32.92	-0.4
			eS	37 39.06	
RAGM	0.35	142	iP	37 33.34	-0.3
			eS	37 39.21	
HMT	0.54	128	iP	37 35.92	-0.7
			eS	37 44.36	
HIN	0.74	249	iP	37 38.93	-1.2
			eS	37 49.93	
VLZ	0.76	308	iP	37 39.25	-1.1
VZW	0.81	300	iP	37 40.16	-1.2
			eS	37 51.82	
KAIM	0.82	155	eP	37 40.33	-1.1
			eS	37 50.85	
KLU	0.92	335	iP	37 42.15	-1.0
GLI	1.00	283	iP	37 42.83	-1.7
			eS	37 56.20	
GLB	1.00	39	iP	37 43.31	-1.3
TGL	1.12	84	eP	37 45.03	-1.7
			eS	38 00.11	
WAX	1.14	100	iP	37 45.44	-1.5
			eS	38 01.11	
KNIM	1.34	257	eP	37 47.54	-2.2
MID	1.39	207	eP	37 48.88	-1.5
TZL	1.39	354	eP	37 50.39	-0.1
BALM	1.40	73	iP	37 49.36	-1.4
			eS	38 07.48	
MTU	1.44	243	eP	37 49.18	-2.0
			eS	38 08.27	
LTI	1.50	246	iP	37 49.77	-2.3
TOA	1.53	341	eP	37 52.52	-0.1
WRG	1.66	111	eP	37 53.81	-0.5
YAH	1.69	99	eP	37 54.27	-0.8
KNK	1.79	296	eP	37 55.01	-1.3
			eS	38 18.78	
CTGM	1.87	79	eP	37 56.65	-1.0
			eS	38 19.63	
SDG	1.88	354	eP	37 57.33	-0.2
			eS	38 21.68	
GHO	2.15	303	eP	37 59.84	-1.8
PLRM	2.16	297	eP	37 59.97	-1.6
SEW	2.23	257	eP	37 59.61	-3.0
PMS	2.25	287	eP	38 01.96	-1.0
PAX	2.32	356	eP	38 04.18	0.2
SLKM	2.53	269	eP	38 04.19	-2.7
CUT	3.02	307	eP	38 12.59	-1.2
SKT	3.36	296	eP	38 15.95	-2.8
SPU	3.43	282	eP	38 16.40	-3.3
CRP	3.49	283	eP	38 18.38	-2.2
CKL	3.57	282	eP	38 18.08	-3.7
BGL	3.60	283	eP	38 19.06	-3.1

37 obs. associated

? JAN 12, 1991 22h 10m 45.21± 4.66s
18.206 S ±41.9km 178.263 W ±37.9km
DEPTH = 612.0 ± 51.0 km
4.9mb (6 obs.)
FIJI ISLANDS REGION (181)

DZM	14.87	252	iPd	13 53.80	2.0
PMG	34.65	280	iPd	16 47.00	0.0
	1.0s	80.00nm		5.3mb	
CMS	35.00	241	iPd	16 49.90	0.2
TOO	37.09	231	iPc	17 07.20	0.3
WRA	44.71	260	P	18 06.00	-1.5
	0.5s	21.50nm		4.9mb	
ASPA	44.85	255	iPd	18 07.80	-0.7
	1.1s	61.60nm		5.0mb	
			iS	24 03.30	
FORR	49.97	245	eP	18 45.50	-1.3
	0.4s	28.00nm		5.1mb	
WARB	51.31	251	iPd	18 55.80	-0.9
	0.5s	12.00nm		4.6mb	
TNP	80.07	45	P	21 51.80	-2.3
	1.0s	8.25nm		4.1mb	
YKA	94.54	25	eP	22 07.60	-54.4X
	0.5s	0.20nm			
KSP	145.43	344	iPKPc	29 16.50	0.7
BRG	145.99	346	iPKP	29 17.60	0.9
	0.8s	10.00nm			
WTS	146.05	354	ePKP	29 17.50	0.8
	0.9s	10.00nm			
PRU	146.67	345	PKPc	29 19.50	1.7
KHC	147.70	345	ePKP	29 22.50	3.0X
SQTA	150.03	347	iPKPd	29 28.00	4.7X
	0.8s	5.80nm			

S.D. = 1.5 on 13 of 16 obs.

? JAN 12, 1991 22h 15m 38.49±12.79s
4.213 N ±42.3km 77.719 W ±96.8km
DEPTH = 33.0km (normal)
NEAR WEST COAST OF COLOMBIA (102)
MD 3.5 (UVC).

ANCC	1.10	129	eP	15 57.00	-0.6
CLMC	1.20	106	eP	15 59.00	-0.2
HOQC	1.31	124	eP	16 00.40	-0.5
BUGC	1.49	102	eP	16 03.70	0.3
HOBC	1.59	85	eP	16 04.60	-0.1
			eS	16 25.20	
SALC	1.60	140	eP	16 05.30	0.3
DIAC	1.77	121	eP	16 08.20	0.7

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

JAN 12, 1991 22h 59m 45.63± 0.27s
22.896 S ± 3.8km 63.782 W ± 4.5km
DEPTH = 542.4 ± 4.5 km
4.7mb (14 obs.)
SALTA PROVINCE, ARGENTINA (129)

CYA	5.82	198	iPd	01 22.00	-1.0
CCH	5.92	338	P	01 24.00	-0.2
CNCB	7.23	326	Pd	01 37.80	0.8
			S	03 07.00	
SIV	7.33	21	Pc	01 37.90	0.5
LPB	7.52	327	Pc	01 38.60	-1.2
	1.0s	260.00nm		5.3mb	
			S	03 10.00	
ZOBO	7.76	327	iPd	01 42.20	-0.1
			(PKS)	03 13.00	
			LR	54 08.00	
ITB1	8.78	103	iPc	01 52.40	0.5
RTRS	8.85	214	iPd	01 53.50	1.0
ITB	8.96	104	iPc	01 54.00	0.2
ITB7	9.06	106	iPc	01 55.00	0.2
RTLL	9.38	205	ePc	01 57.00	-1.0
ARE	9.68	310	iPc	02 02.00	0.6
			iS	03 41.00	
RTCV	9.88	204	ePc	02 03.10	0.0
MDZ	10.91	203	iP	02 14.60	1.0
FCH	11.87	207	iPd	02 24.30	0.6
ROCH	11.89	211	iPd	02 26.30	4.4X
SAN	12.14	208	iPd	02 26.50	0.4
PCH	12.22	208	iPd	02 27.30	0.3
TACH	12.43	209	iPd	02 28.30	-0.8
LCCH	12.57	211	iPd	02 30.10	-0.4
LNV	12.90	210	iPd	02 32.90	-0.8
VAO	15.49	94	ePc	02 59.20	-0.7

			e	05 37.60	
NNA	16.51	309	iPc	03 11.50	1.7
	0.6s	56.67nm		5.3mb	
BAO	16.56	67	ePd	03 10.90	0.5
PDCR	25.61	70	eP	04 32.90	-0.9
SOB1	25.81	62	eP	04 36.70	1.1
CEOS	32.04	352	iP	05 28.90	-0.5
SDV	32.29	347	iP	05 30.30	-1.3
OLLA	32.84	355	iP	05 35.70	-0.4
TOV	33.01	349	eP	05 36.90	-0.6
LIC	64.29	71	P	09 28.98	-0.8
TIC	64.50	70	P	09 30.28	-0.9
KIC	64.60	71	Pd	09 31.24	-0.6
TUL	65.86	332	e(P)	09 37.40	-1.9
	0.6s	3.70nm		4.1mb	
KUK	68.35	73	eP	09 53.00	-1.9
ANMO	70.34	324	P	10 07.50	0.9
TIO	76.15	48	iP	10 40.40	0.9
SCH	77.43	358	eP	10 46.00	0.3
BCAO	84.65	83	ePc	11 25.50	1.9
	0.7s	3.00nm		4.0mb	
EPF	88.16	41	eP	11 40.80	1.1
	1.0s	12.00nm		4.7mb	
LFF	89.46	40	eP	11 46.00	0.5
	0.9s	18.00nm		5.0mb	
LPO	89.58	40	eP	11 46.50	0.4
MFF	89.88	38	eP	11 47.60	0.2
	0.9s	11.45nm		4.8mb	
RJF	90.12	40	eP	11 48.90	0.3
CAF	90.24	40	eP	11 49.50	0.3
GRR	90.49	36	eP	11 49.70	-0.5
	0.8s	13.45nm		5.0mb	
LSF	90.64	39	eP	11 50.80	-0.2
	0.8s	5.35nm		4.6mb	
LDF	91.01	37	eP	11 52.20	-0.4
TCF	91.06	39	eP	11 52.60	-0.3
MAF	91.23	40	eP	11 53.90	0.2
BGF	91.58	39	eP	11 55.20	-0.1
	0.8s	6.70nm		4.7mb	
AVF	92.00	39	eP	11 57.10	-0.1
SMF	92.21	40	eP	11 58.30	0.1
	0.7s	4.95nm		4.7mb	
SSF	92.23	39	eP	11 57.80	-0.4
LPL	93.37	42	eP	12 04.60	0.8
	0.7s	3.85nm		4.6mb	
LPG	93.37	42	eP	12 04.80	0.9
	0.6s	3.15nm		4.6mb	
YKA	94.14	339	eP	12 06.80	0.1
	0.5s	1.70nm		4.4mb	
HAU	94.37	39	eP	12 08.20	0.1
BSF	94.54	40	eP	12 09.20	0.2
CDF	95.11	39	eP	12 11.20	-0.3
WRA	133.89	204	PKP	18 16.00	12.8X
	0.7s	3.30nm			
GBA	142.12	97	PKPc	18 14.10	-4.2X
	0.7s	1.80nm			
HYB	144.29	92	iPKPd	18 21.80	-0.2
	0.8s	50.00nm			
GKN	151.08	73	PKP	18 39.60	7.0X
	0.6s	31.00nm			
DMN	151.51	74	PKP	18 40.60	7.2X
	0.6s	18.00nm			
KKN	151.66	74	PKP	18 40.80	7.3X
PKI	151.78	74	PKP	18 41.40	7.5X
GUN	152.18	73	PKP	18 42.20	7.8X

S.D. = 0.8 on 60 of 68 obs.

JAN 12, 1991 23h 08m 03.52± 0.36s
17.813 S ± 9.6km 172.934 W ± 9.0km
DEPTH = 33.0km (normal)
4.9mb (12 obs.) 4.7Msz (1 obs.)
TONGA ISLANDS REGION (174)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 28C
Centroid Location:
Origin Time 23:08: 5.9 0.8
Lat 17.93S 0.12 Lon 172.62W 0.08
Dep 15.0 FIX Half-duration 1.6
Moment Tensor; Scale 10**16 Nm
Mrr= 6.38 0.39 Mtt=-0.61 0.54
Mff=-5.77 0.61 Mrt= 3.22 1.29
Mrf= 4.87 1.49 Mtf=-2.65 0.38
Principal Axes:

T	Val= 8.65	Plg=69	Azm=313
N	0.39	6	207
P	-9.04	21	115

Best Double Couple:Mo=8.8*10**16
NP1:Strike=195 Dip=25 Slip= 76
NP2: 30 66 96

AFI	4.04	16	eP	09	03.00	-1.7
			e(S)	12	00.00	
MBU	8.01	275	eP	10	03.40	2.8X
VUN	8.19	267	eP	10	05.10	2.0
SVA	8.20	267	eP	10	05.80	2.6X
SGE	8.72	270	eP	10	13.10	2.6X
PVC	17.86	267	iPc	12	11.50	0.3
DZM	19.84	254	iPc	12	32.00	-2.7
PUZ	21.61	199	P	12	51.60	-1.1
NOZ	22.18	199	eP	12	58.10	-0.2
WLZ	22.35	204	P	13	00.60	0.6
MNG	24.83	201	eP	13	22.50	-1.6
WRA	49.77	259	P	17	04.00	8.7X
	0.9s	7.60nm			4.7mb	
ASPA	49.83	254	iPc	16	51.20	-4.5X
	0.9s	43.00nm			5.5mb	
Z	19s	0.70um			4.7Msz	
			iPcP	20	31.10	
			eS	23	48.30	
MAT	71.06	320	eP	19	18.00	-2.5
	0.7s	6.16nm			4.8mb	
			eS	29	22.00	
PRS	72.61	42	eP	19	30.80	1.1
GCC	72.66	41	eP	19	30.20	0.3
TRT	72.91	267	ePd	19	29.10	-2.8
MWC	73.50	45	eP	19	36.00	0.8
PLM	73.82	46	eP	19	33.00	-4.1X
SBB	73.93	45	eP	19	36.00	-1.5
FRI	74.07	42	eP	19	39.40	1.3
ISA	74.07	44	eP	19	39.00	0.7
CMB	74.28	41	eP	19	40.00	0.5
WDC	74.60	37	ePd	19	40.90	-0.3
CLC	74.74	44	eP	19	44.00	1.8
GSC	74.97	45	eP	19	48.00	4.5X
GLA	75.07	48	eP	19	45.00	0.9
TNP	76.31	42	eP	19	50.00	-1.3
	1.0s	8.25nm			4.7mb	
SVW	79.87	8	eP	20	10.00	-0.1
SLKM	80.18	11	eP	20	10.00	-1.7
PMR	81.38	11	eP	20	17.00	-1.0
	1.0s	15.00nm			5.0mb	
PNT	81.81	32	eP	20	22.00	1.5
PV09	81.86	45	iP	20	22.00	0.6
ALQ	82.01	50	eP	20	22.00	-0.1
	1.4s	11.63nm			4.7mb	
ANMO	82.01	50	eP	20	21.00	-1.1
	1.5s	11.11nm			4.7mb	
BW06	83.77	41	eP	20	30.00	-1.1
	1.0s	15.00nm			5.1mb	
FBA	84.67	10	eP	20	33.00	-1.8
	1.0s	15.00nm			5.1mb	
GOL	85.00	46	eP	20	42.00	4.6X
	1.0s	11.00nm			5.0mb	
SES	86.92	34	eP	20	46.00	-0.3
BJI	87.44	313	eP	20	49.00	0.1
	1.3s	28.00nm			5.4mb	
IPM	87.62	276	ePc	20	50.50	0.1
RSSD	87.93	42	eP	20	51.00	-0.5
INK	90.49	14	eP	21	02.00	-0.8
LOE	90.94	288	eP	21	07.00	1.1
HHC	90.98	313	P	21	06.30	0.5
BTO	91.98	312	eP	21	12.00	1.7
N	12s	0.60um				
E	12s	0.50um				
YKA	92.12	23	eP	21	09.30	-1.1
	0.8s	1.40nm			4.4mb	
KMI	92.46	295	Pc	21	14.50	1.4
CHG	93.89	288	eP	21	20.10	0.6
CHTO	93.89	288	P	21	20.10	0.7
			pP	21	29.50	29kmX
NAI	145.11	240	iPKPd	27	42.00	1.5
	2.0s	164.71nm				
WTS	145.89	0	ePKP	27	41.50	1.2
	1.0s	25.00nm				
			e	27	52.00	
KRA	146.21	345	ePKP	27	41.80	0.8
KSP	146.23	349	ePKP	27	41.70	0.7
	1.3s	68.00nm				
			i	27	52.80	
CLL	146.25	353	iPKPc	27	41.20	0.2
	1.4s	78.00nm				
			ipP	27	51.40	
BRG	146.56	352	iPKP	27	43.40	1.9
	1.4s	48.00nm				
			i	27	52.40	
SPC	146.93	344	ePKP	27	42.80	0.4
			e	27	54.60	
MOX	147.04	355	ePKP	27	45.00	2.7X
	1.6s	31.00nm				
ENN	147.11	1	ePKP	27	46.00	3.7X
	1.0s	20.00nm				
PRU	147.34	351	ePKP	27	45.00	2.2X
			e	27	59.00	
ABH	148.01	359	ePKP	27	47.54	3.6X
GRF	148.02	355	ePKP	27	47.30	3.4X
			e	28	00.60	
MLR	148.23	334	ePKP	27	49.00	4.5X
KHC	148.32	352	PKPd	27	48.50	4.1X
			e	28	04.90	
FLN	148.53	10	ePKP	27	46.80	2.1X
	1.3s	50.55nm				
ZST	148.61	347	ePKP	27	48.00	3.1X
GRR	148.83	10	ePKP	27	47.80	2.6X
	1.2s	20.85nm				
LPF	149.14	11	ePKP	27	48.80	3.1X
	1.1s	17.10nm				
CDF	149.48	360	ePKP	27	49.70	3.4X
	1.2s	14.90nm				
HAU	149.88	1	ePKP	27	50.80	3.9X
	0.9s	9.85nm				
BSF	150.06	0	ePKP	27	51.00	3.8X
SOTA	150.47	354	e(PKP)	27	52.50	4.6X
	1.2s	20.00nm				
			i	28	08.80	
			e	28	25.50	
LOR	150.51	4	ePKP	27	52.20	4.4X
	1.1s	14.65nm				
SSF	150.68	5	ePKP	27	52.70	4.6X
	1.0s	14.00nm				
LBF	150.80	4	ePKP	27	52.90	4.6X
FVI	150.91	352	PKP	27	55.00	6.6X
AVF	150.94	5	ePKP	27	52.90	4.5X
PTJ	151.03	347	ePKP	27	54.40	5.7X
KCT	151.05	325	ePKP	27	54.00	5.1X
SMF	151.12	5	ePKP	27	53.40	4.7X
LJU	151.17	349	e(PKP)	27	54.30	5.5X
VOY	151.30	350	e(PKP)	27	54.50	5.4X
CEY	151.49	349	e(PKP)	27	55.00	5.7X
VBY	151.56	348	e(PKP)	27	56.70	7.3X
CTI	151.59	353	PKP	27	58.50	8.9X
TRI	151.63	350	ePKP	27	55.30	5.8X
SKO	152.97	336	ePKP	27	59.00	7.5X
VAY	153.05	334	ePKP	27	56.00	4.3X
S.D. = 1.3 on 49 of 88 obs.						

JAN 12, 1991 23h 16m 38.15± 0.85s
23.695 N ± 7.3km 121.758 E ± 8.6km
DEPTH = 10.0km (geophysicist)
4.3mb (3 obs.)
TAIWAN (244)
ML 4.5 (BJI).

TWD	0.41	339	iPc	16	48.20	1.7
			eS	16	52.30	
TWF1	0.54	231	iPc	16	52.10	3.0
			eS	16	59.60	
TWC	0.91	5	ePc	16	57.40	1.8
			eS	17	08.70	
TWO	1.02	305	ePd	16	58.10	0.6
			eS	17	09.50	
TWZ	1.41	353	eP	17	04.80	1.0
QZH	3.14	294	Pnd	17	27.00	-1.6
Z	10s	2.20um				
			Sn	18	00.40	
SSE	7.39	356	P	18	27.80	-0.8
Z	12s	0.50um				
N	10s	0.50um				
GZH	7.75	267	eP	18	32.50	-1.3
NJ2	8.71	344	Pc	18	43.50	-3.6X
Z	11s	0.40um				
N	10s	0.80um				
WHN	9.49	318	eP	18	57.00	-0.8
GYA	13.95	284	P	19	57.40	-0.9
XAN	15.24	315	P	20	14.50	-0.5
TIY	16.09	332	eP	20	30.00	3.9X
Z	16s	0.50um				
N	15s	0.80um				
CD2	17.53	298	eP	20	44.00	-0.2
Z	13s	1.30um				
E	11s	0.50um				

LZH	19.80	313	eP	21	11.50	-0.4
	2.0s	36.00nm			4.3mb	
Z	30s	0.46um			5.2Msz	
			pP	21	21.50	42kmX
WRA	45.08	163	P	24	56.00	-0.3
	0.6s	2.00nm			4.2mb	
MAIO	54.54	299	eP	26	09.00	0.2
			e	27	12.00	
FBA	69.00	27	P	27	44.60	-0.9
INK	73.48	22	eP	28	11.50	-0.8
YKA	83.21	23	eP	29	06.00	0.3
	0.8s	1.90nm			4.3mb	
S.D. = 1.3 on 18 of 20 obs.						

? JAN 13, 1991 00h 13m 25.58± 5.10s
4.031 N ±22.3km 76.753 W ±31.5km
DEPTH = 80.6 ± 38.2 km
COLOMBIA (103)
MD 2.8 (UVC).

CLMC	0.24	128	eP	13	37.86	-0.1
ANCC	0.52	192	eP	13	39.81	0.0
			eS	13	52.00	
HOOC	0.57	168	eP	13	40.75	0.2
			eS	13	53.60	
HOBC	0.69	62	eP	13	41.62	0.0
DIAC	0.92	143	eP	13	44.11	0.0
			eS	13	59.50	
SALC	1.05	177	eP	13	45.65	-0.1
			eS	14	02.20	
SILC	1.40	163	eP	13	50.38	0.0
S.D. = 0.2 on 7 of 7 obs.						

% JAN 13, 1991 00h 18m 35.09± 1.27s
37.566 N ±11.9km 21.389 E ±14.1km
DEPTH = 10.0km (geophysicist)
SOUTHERN GREECE (368)
MD 2.8 (ATH).

ITM	0.58	132	ePg	18	45.50	-1.3
			eSg	18	53.50	
VLS	0.88	314	ePg	18	52.00	0.0
EVR	1.39	14	ePb	19	00.40	-0.2
VLI	1.50	124	ePn	19	03.50	1.5
NEO	2.26	39	ePn	19	13.00	0.0
S.D. = 1.4 on 5 of 5 obs.						

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* JAN 13, 1991 01h 01m 09.55± 0.72s
37.084 N ± 6.3km 29.789 E ± 6.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.5 (ISK).

ELL	0.35	164	iPg	01	16.80	0.0
			eSg	01	23.30	
BCK	0.74	59	iPn	01	24.00	-0.1
YER	1.21	273	iPn	01	31.70	-0.3
KHL	1.25	350	iPn	01	32.40	-0.5
CIN	1.45	291	ePg	01	30.00	-5.8X
			iSg	01	47.00	
ALT	1.98	7	ePn	01	44.00	0.4
IZM	2.39	304	ePn	01	50.00	0.5
S.D. = 0.5 on 6 of 7 obs.						

? JAN 13, 1991 02h 22m 09.34± 8.26s
65.370 N ±57.4km 6.219 E ±45.4km
DEPTH = 10.0km (geophysicist)
NORWEGIAN SEA (642)
MD 3.4 (BER).

NSS	2.59	106	eP	22	51.89	0.0
			eS	23	25.77	
MOL	2.87	168	eP	22	56.43	0.5
			eS	23	33.32	
FOO	3.82	188	iP	23	14.28	4.8X
			eS	23	56.23	
HYA	4.22	180	eP	23	14.89	-0.2
			eS	24	05.23	
NRA0	5.24	150	Pn	23	28.80	-0.8
HFS	6.27	143	eP	23	44.60	0.5
	0.4s	18.50nm			5.3mb	
S.D. = 0.7 on 5 of 6 obs.						

JAN 13, 1991 03h 23m 48.48± 0.25s
45.661 N ± 2.7km 26.647 E ± 2.3km
DEPTH = 141.3 ± 3.2 km
4.7mb (55 obs.)

13d 03h

ROMANIA (358)

Felt at Nikopol, Pavlikeni, Razgrad, Ruse and Silistra, Bulgaria.

VRI	0.22	15	iPc	24	09.00	1.7
CVO	0.37	296	iPc	24	10.00	2.2
MLR	0.52	251	iPc	24	11.50	2.1
PPE	0.88	50	ePd	24	14.00	2.4
CLI	0.99	26	iPd	24	14.00	1.3
CFR	1.16	114	iPc	24	12.00	-2.2
CMP	1.20	251	iPc	24	16.00	1.4
BUC	1.31	198	iPc	24	15.50	-0.1
BUC1	1.39	199	iPd	24	19.50	3.0X
TLB	1.45	137	iPc	24	20.00	2.8
CVD	1.65	143	iP	24	18.00	-1.4
IAS	1.66	22	iPd	24	14.00	-5.5X
PSN	2.26	150	iPc	24	26.00	-0.7
PVL	2.62	202	iPd	24	32.00	0.9
DEV	2.63	276	iPd	24	31.50	0.2
SRE	2.63	249	iPd	24	34.00	2.7
BMR	2.96	314	ePd	24	50.00	14.5X
JMB	3.19	181	iPd	24	38.00	-0.6
CEI	3.52	307	eP	24	52.00	9.1X
BZS	3.53	271	iPc	24	45.00	2.0
DIM	3.70	193	iPc	24	45.00	-0.2
PLD	3.82	202	iPd	24	46.00	-0.9
DMK	3.92	168	iPn	24	46.90	-1.3
VTS	3.94	220	iPd	24	48.00	-0.6
KDZ	4.11	193	iPd	24	51.00	0.3
RZN	4.21	200	iPd	24	52.00	-0.2
BEO	4.45	261	iPn	24	53.00	-2.3
			iPg	25	01.50	
			iSg	25	39.00	
RDO	4.58	191	iPd	24	55.90	-1.1
MMB	4.59	209	iPd	24	58.00	0.9
ITU	4.87	158	eP	25	02.00	1.2
ISK	4.92	158	iPn	25	00.40	-1.1
PSZ	5.16	298	iPn	25	02.70	-2.1
KGT	5.23	174	iPn	25	04.90	-0.8
VAY	5.25	216	iPnd	25	05.70	-0.3
			i	25	46.40	
			iSn	25	57.40	
			Lg	26	17.00	
SKO	5.27	227	iPnd	25	05.80	-0.5
			iPb	25	13.50	
			iPg	25	21.00	
			iSn	25	55.50	
			iSb	26	09.00	
			iSg	26	17.00	
			Lg	26	21.00	
GBZT	5.28	156	ePn	25	07.40	1.0
			eSg	26	06.70	
HRT	5.32	154	iPn	25	05.90	-1.0
BNT	5.38	170	iP	25	06.80	-1.0
EDC	5.39	170	iPn	25	06.50	-1.3
YLV	5.47	158	iP	25	08.30	-0.7
KCT	5.55	166	iP	25	08.90	-1.2
BUD	5.56	292	eP	25	07.40	-2.8
IVA	5.59	242	iPnd	25	09.85	-0.8
			iSn	26	10.00	
SPC	5.60	311	iPn	25	09.10	-1.7
			i	25	19.70	
			i	25	50.90	
			i	26	04.80	
			i	26	20.90	
PLE	5.69	248	iPnd	25	10.80	-1.2
			iSn	26	12.00	
PVY	5.70	240	iPnd	25	11.80	-0.3
			iSn	26	13.02	
IZI	5.71	158	eP	25	11.30	-0.9
PLG	5.78	205	iPd	25	12.30	-0.9
EZN	5.84	182	iP	25	11.90	-2.0
GPA	6.00	152	iP	25	18.40	2.2
SRO	6.12	294	ePn	25	15.30	-2.4
	1.0s		0.18nm			2.3mb X
			i	25	28.20	
			i(Sn)	26	34.00	
NKY	6.19	245	iPnd	25	17.73	-1.0
			iSn	26	22.01	
TIH	6.19	285	ePn	25	17.70	-1.0
DST	6.23	166	iP	25	18.10	-1.1
TTG	6.23	241	iPnd	25	18.45	-0.7
			iSn	26	23.59	
OHR	6.23	225	iPnd	25	19.10	-0.2
			Lg	26	30.30	
KRA	6.30	317	eP	25	19.10	-1.1
PRK	6.42	183	eP	25	20.00	-1.8
KZN	6.43	215	iPd	25	21.40	-0.7
BRY	6.44	247	iPnd	25	20.13	-2.1
			iSn	26	28.98	
ULC	6.50	238	iPnd	25	23.57	0.6
			iSn	26	33.21	
BDV	6.57	242	iPnd	25	24.03	0.1
			iSn	26	33.03	
HCY	6.69	244	iPnd	25	25.63	0.1
			iSn	26	36.00	
NEO	6.83	203	iPd	25	25.00	-2.5
ZST	7.01	295	e(Pn)	25	27.50	-2.3
			i	25	40.50	
			i	25	48.30	
			e	25	57.60	
			i	26	08.60	
			e	26	24.50	
			e	26	37.90	
ALT	7.08	158	eP	25	30.30	-0.6
IZM	7.27	176	eP	25	32.00	-1.4
BBTK	7.35	140	eP	25	41.00	6.5X
ZAG	7.46	275	iPd	25	35.30	-0.6
PTJ	7.48	276	iPd	25	35.40	-0.8
VKA	7.53	294	iPc	25	35.60	-1.2
	1.5s		112.00nm			5.2mb
			i	25	37.10	
			i	26	15.00	
EVR	7.63	210	iPd	25	37.50	-0.8
KHL	7.64	163	eP	25	37.90	-0.4
HVAR	7.71	255	iPnd	25	38.60	-0.6
			iSn	27	03.20	
KEK	7.79	223	eP	25	40.00	-0.3
ATH	7.99	197	iPd	25	42.00	-0.9
VBY	7.99	273	iPd	25	43.50	0.5
CIN	8.13	172	eP	25	44.00	-0.8
LCI	8.30	233	P	25	46.60	-0.5
BRT	8.38	239	P	25	49.30	1.1
LJU	8.47	277	ePd	25	49.50	0.2
CEY	8.56	275	ePd	25	50.40	-0.2
RIY	8.62	272	iPc	25	51.90	0.5
KSP	8.63	311	eP	25	49.00	-2.6
BCK	8.71	159	eP	25	52.00	-0.6
VLS	8.73	213	eP	25	53.50	0.6
VOY	8.91	277	iPd	25	55.00	-0.4
TRI	9.02	275	iPd	25	57.00	0.3
ITM	9.18	204	eP	25	59.50	0.6
PRU	9.22	302	eP	25	57.00	-2.4
			e	26	05.70	
			e	27	45.20	
ORI	9.34	237	P	26	02.00	1.0
VLI	9.36	199	eP	26	00.50	-0.7
KHC	9.52	296	iPc	26	03.10	-0.3
	1.2s		30.00nm			4.8mb
			e	26	45.00	
TDS	9.67	235	P	26	06.20	0.9
FVI	9.68	280	P	26	07.50	2.1
BHG	9.69	287	eP	26	05.80	0.3
DUI	9.69	250	P	26	06.40	0.7
SGO	9.73	242	P	26	06.20	0.1
BRG	9.94	306	eP	26	19.00	10.1X
ARV	10.02	262	P	26	10.70	0.8
AOU	10.10	256	P	26	12.60	1.6
SDI	10.10	252	P	26	10.90	-0.1
AZI	10.23	254	P	26	14.80	2.2
RSM	10.24	265	Pd	26	14.00	1.2
ASS	10.35	260	P	26	15.20	0.9
CTI	10.47	277	P	26	18.00	2.0
MNS	10.58	257	P	26	17.90	0.6
SFI	10.66	266	P	26	19.80	1.5
CLL	10.67	307	eP	26	24.00	5.5X
			e	29	15.00	
CRE	10.67	264	P	26	20.70	2.1
SOTA	10.77	284	iPc	26	19.60	-0.4
	1.0s		30.10nm			4.9mb
			i	26	24.40	
			i	26	36.00	
			i	26	49.80	
			i	27	05.60	
			i	27	08.20	
			i	28	26.20	
RMP	10.80	254	P	26	22.00	1.8
RDP	10.81	254	P	26	21.90	1.5
FUR	10.81	289	iPc	26	20.40	0.0
	1.1s		68.00nm			5.2mb
FIR	11.11	266	eP	26	24.00	-0.3
MSI	11.12	232	P	26	26.10	1.8
GRF	11.15	297	iPd	26	23.80	-1.0
SAL	11.29	275	P	26	30.00	3.4X
MME	11.40	268	P	26	30.70	2.3
BDI	11.51	268	P	26	32.20	2.7
PII	11.64	266	P	26	34.00	2.8
MNO	11.79	233	P	26	35.00	1.6
MDI	11.84	277	P	26	38.00	4.2X
BSD	12.05	326	iP	26	37.00	0.6
GIB	12.13	235	P	26	39.00	1.3
BOB	12.17	272	P	26	42.60	4.4X
VAI	12.49	277	P	26	46.50	4.3X
MCT	12.60	235	P	26	46.00	2.1
PCP	12.84	271	P	26	47.86	0.9
CKI	13.05	271	P	26	54.20	4.6X
CVT	13.06	237	P	26	53.80	4.2X
PGF	13.06	263	eP	26	42.40	-7.4X
	0.9s		49.15nm			5.0mb
ORX	13.06	277	P	26	49.81	0.0
ORO	13.07	277	P	26	55.20	5.3X
FIN	13.15	270	P	26	50.63	-0.2
ROB	13.37	271	P	26	54.21	0.5
IMI	13.44	269	P	26	51.75	-2.9
COP	13.46	323	iP	26	53.60	-1.1
RSP	13.64	275	P	26	53.80	-3.4X
LSD	13.66	276	P	26	58.01	0.4
BHB	13.68	274	P	26	57.39	-0.3
ENR	13.70	271	P	26	58.21	0.3
STV	13.76	271	P	26	58.83	0.1
DOI	13.76	272	P	27	03.50	4.8X
SBF	13.77	269	eP	26	53.50	-5.3X
	0.8s		34.90nm			4.8mb
BSF	13.79	286	eP	26	55.80	-3.3X
	0.7s		5.50nm			4.0mb
PZZ	13.86	272	P	26	58.83	-1.2
LPG	13.94	276	eP	27	00.20	-1.0
	0.7s		77.50nm			5.1mb
LPL	13.95	277	eP	27	00.30	-1.0
RSL	14.00	277	P	27	02.60	0.7
RRL	14.01	274	P	27	03.03	1.0
BNI	14.06	275	P	27	07.50	4.9X
HAU	14.09	287	eP	26	57.90	-4.9X
FRF	14.40	269	eP	27	01.80	-4.9X
	0.6s		38.80nm			4.9mb
WTS	14.50	303	eP	27	12.00	4.1X
	0.9s		19.00nm			4.4mb
LMR	14.56	268	eP	27	04.10	-4.6X
	0.7s		36.40nm			4.8mb
LRG	14.63	269	eP	27	05.50	-4.1X
	0.7s		25.35nm			4.6mb
ENN	14.71	298	eP	27	15.00	4.4X
	0.9s		9.00nm			4.1mb
WIT	14.85	306	eP	27	16.00	3.7X
NUR	14.92	356	iP	27	07.20	-5.9X
	0.7s		24.00nm			4.6mb
			i	27	14.00	
			i	29	39.00	
UPP	15.21	342	iP	27	12.30	-4.4X
			i	27	25.40	
MUD	15.36	321	iPd	27	21.50	2.9
	0.7s		19.00nm			4.5mb
LBF	15.71	283	eP	27	18.50	-4.7X
	0.9s		11.45nm			4.2mb
LOR	15.78	284	eP	27	19.20	-4.8X
	0.8s		9.40nm			4.2mb
Z	20s		0.10um			
SMF	15.83	282	eP	27	20.30	-4.3X
	0.6s		8.55nm			4.2mb
SSF	16.03	283	eP	27	22.00	-5.0X
	0.9s		14.75nm			4.3mb
PLDF	16.05	279	P	27	27.08	-0.3
AVF	16.15	282	eP	27	23.20	-5.3X
	0.5s		5.85nm			4.2mb
HFS	16.42	337	eP	27	27.10	-4.6X
	0.6s		22.50nm			4.7mb
LBL	16.42	277	P	27	32.47	0.6
KAF	16.49	359	iP	27	26.10	-6.4X
PYM	16.51	279	P	27	32.69	-0.3
BGF	16.52	282	eP	27	27.10	-6.0X
	0.5s		9.85nm			4.4mb
MAF	16.75	281	eP	27	30.50	-5.4X
	1.0s		21.00nm			4.4mb
TCF	16.99	281	eP	27	33.60	-5.2X
	0.7s		9.90nm			4.2mb
CAF	17.30	276	eP	27	37.40	-5.3X
	1.2s		29.75nm			4.5mb

LSF	17.46	281	eP	27	37.40	-7.2X
	0.7s	13.80nm			4.4mb	
NRA0	17.53	335	Pn	27	40.80	-4.5X
			Sn	31	08.60	
RJF	17.61	278	eP	27	41.30	-5.1X
	0.9s	34.40nm			4.7mb	
LPO	17.96	276	eP	27	43.60	-6.8X
	0.9s	39.30nm			4.7mb	
LFF	18.22	277	eP	27	46.70	-6.5X
	1.1s	83.05nm			5.0mb	
LDF	18.42	289	eP	27	49.30	-6.0X
	0.4s	8.00nm			4.4mb	
MFF	18.57	283	eP	27	50.40	-6.5X
	0.7s	18.75nm			4.5mb	
ODD1	18.60	327	eP	27	56.00	-1.2
FLN	18.65	289	eP	27	51.50	-6.3X
	0.9s	24.55nm			4.5mb	
GRR	18.91	288	eP	27	53.40	-7.1X
	0.4s	5.75nm			4.3mb	
EPF	18.97	271	eP	27	54.50	-6.8X
	0.7s	8.80nm			4.2mb	
LPF	19.05	287	eP	27	54.80	-7.1X
	0.4s	5.15nm			4.2mb	
HYA	19.61	330	eP	28	06.50	-1.0
MOL	20.16	334	iPc	28	12.16	-1.1
NSS	20.59	342	iPc	28	15.34	-2.2
ESY	21.00	310	eP	28	20.90	-0.8
EKA	21.13	308	P	28	24.00	1.0
	1.2s	33.90nm			4.6mb	
EDR	21.27	313	eP	28	23.90	-0.5
	0.8s	48.00nm			5.0mb	
EDI	21.31	310	eP	28	24.50	-0.2
	0.9s	102.00nm			5.2mb	
EDU	21.40	311	eP	28	25.70	0.0
ELO	21.75	311	eP	28	28.60	-0.5
	1.0s	50.00nm			4.9mb	
SOD	21.77	360	iP	28	28.60	-0.6
			e	32	23.00	
EA8	22.00	310	eP	28	31.20	-0.4
ETA	22.46	300	eP	28	36.40	0.4
ECP	22.51	299	eP	28	37.10	0.6
KTK1	23.48	357	iP	28	45.27	-0.5
LOF	23.53	348	eP	28	45.63	-0.7
KEV	24.16	0	iP	28	52.30	0.0
	0.7s	53.40nm			5.2mb	
TRO	24.35	353	eP	28	53.48	-0.6
MAIO	26.35	99	eP	29	13.00	0.1
BCAO	41.67	192	iPc	31	25.60	1.1
	0.5s	15.00nm			4.9mb	
			id	31	48.10	
			ic	31	54.60	
			id	33	19.70	
WMQ	42.47	70	iPc	31	32.00	1.1
	0.5s	50.00nm			5.4mb	
NDI	42.97	95	iPc	31	36.00	1.1
POO	47.37	109	iPc	32	11.80	1.8
TIC	47.56	225	P	32	11.34	-0.1
KIC	47.66	224	Pc	32	11.82	-0.4
			S	38	57.00	
LIC	47.92	225	Pc	32	13.84	-0.4
	0.2s	5.50nm			4.9mb	
GKN	48.57	91	Pc	32	20.00	0.6
DMN	49.14	91	Pc	32	24.60	0.7
KKN	49.15	90	Pc	32	24.40	0.5
PKI	49.38	90	Pc	32	26.40	0.6
GUN	49.50	90	Pc	32	27.40	0.6
HYB	51.31	106	eP	32	39.40	-0.7
LSA	52.12	84	Pc	32	48.00	1.4
FRB	52.39	326	eP	32	47.00	-0.6
GTA	52.55	69	eP	32	49.00	-0.3
	0.8s	10.00nm			4.7mb	
			eS	40	05.00	
GBA	53.30	110	P	32	54.00	-0.8
KOD	55.81	113	eP	33	13.90	0.4
SCH	56.15	316	eP	33	13.00	-2.2
M8C	56.43	351	ePc	33	16.40	-0.4
	0.6s	7.00nm			4.8mb	
LZH	57.05	70	P	33	22.50	0.6
	1.0s	50.00nm			5.4mb	
Z	12s	0.32um			4.6MszX	
HHC	59.23	62	eP	33	37.40	0.4
CD2	60.08	75	iPc	33	43.40	0.6
	0.7s	50.00nm			5.6mb	
XAN	61.61	69	iPc	33	52.50	-0.6
TIY	61.64	64	Pc	33	53.90	0.6
KRI	62.25	177	eP	34	00.00	2.6
BJI	62.53	60	eP	33	59.00	0.0
	1.0s	18.00nm			5.0mb	
CHG	64.50	89	iPc	34	12.10	-0.1
	0.9s	30.46nm			5.2mb	
GYA	64.86	77	P	34	14.60	0.1
INK	65.39	352	eP	34	16.00	-1.1
CN2	65.54	52	iPc	34	18.80	0.3
			epP	34	59.00	169kmX
BDT	65.60	90	eP	34	19.50	0.3
SNY	65.77	54	iPc	34	19.60	-0.4
GAC	66.09	311	eP	34	21.50	-0.5
	0.5s	2.00nm			4.3mb	
WHN	67.37	69	Pd	34	32.50	2.2
YKA	67.83	342	eP	34	31.70	-0.9
	0.5s	6.40nm			4.7mb	
IMA	68.61	0	ePc	34	38.20	0.7
	0.6s	6.70nm			4.7mb	
NJ2	69.30	65	Pc	34	41.50	-0.6
FBA	69.70	357	eP	34	44.80	0.8
ANM	69.71	6	eP	34	44.40	0.3
FFC	70.93	331	iPc	34	50.60	-1.1
	0.4s	6.00nm			4.8mb	
SLR	71.07	178	iPd	34	52.00	-0.9
TTA	71.74	1	ePc	34	57.20	0.8
TOA	72.43	356	eP	35	04.40	3.9X
PMR	73.05	358	eP	35	04.30	0.3
	0.6s	8.60nm			4.7mb	
SVW	73.57	1	eP	35	07.90	0.8
SEK	73.64	179	iPc	35	09.50	1.6
PNT	80.95	338	ePc	35	49.00	1.0
TUL	83.64	316	eP	36	00.30	-1.8
	0.8s	18.00nm			5.0mb	

S.D. = 1.2 on 203 of 255 obs.

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* JAN 13, 1991 03h 57m 25.08± 0.82s
31.863 S ±11.9km 69.468 W ±14.2km
DEPTH = 120.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTCV	0.79	90	iPd	57	46.90	1.4
RTLL	1.00	58	iPd	57	47.50	0.0
MDZ	1.14	153	iPd	57	46.70	-2.3
			iS	58	09.30	
FCH	1.62	205	iPc	57	56.20	1.6
			iS	58	19.60	
RTRS	1.69	0	iPd	57	54.70	-0.4
			eS	58	16.80	
ROCH	1.71	229	iP	57	55.00	-0.6
			iS	58	17.50	
SAN	1.88	212	ePc	57	58.20	0.7
			iS	58	23.10	
PCH	1.96	206	eP	57	59.80	1.2
			iS	58	26.40	
TACH	2.17	214	iPc	58	01.00	-0.2
			iS	58	29.60	
LNV	2.65	218	iPc	58	06.00	-1.4

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

& JAN 13, 1991 04h 31m 11.80s
34.200 N 116.633 W
DEPTH = 6.0km (geophysicist)
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 2.5 (PAS).

PEC	0.54	235	iPc	31	21.90	-0.6
PLM	0.87	193	eP	31	27.80	-1.2
GLA	1.89	127	eP	31	45.50	0.5

3 obs. associated

JAN 13, 1991 05h 01m 32.57± 0.72s
40.954 N ± 6.2km 22.344 E ± 5.8km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 2.0 (THE).

GRG	0.04	87	iPd	01	35.26	0.5
			eS	01	36.70	
VAY	0.40	25	iPg	01	40.50	-0.3
			iSg	01	45.70	
KNT	0.47	64	ePd	01	42.14	0.1
			eS	01	48.58	
THE	0.57	124	ePc	01	43.70	-0.4
			eS	01	52.14	
FNA	0.75	257	ePd	01	47.50	0.1
			eS	01	57.18	
SOH	0.78	99	ePd	01	47.90	0.1
			eS	01	59.50	
LIT	0.86	173	iPd	01	49.01	-0.1
			eS	02	01.58	

S.D. = 0.4 on 7 of 7 obs.

JAN 13, 1991 05h 11m 53.12± 0.26s
37.095 N ± 3.0km 29.555 E ± 3.3km
DEPTH = 10.0km (geophysicist)
4.8mb (7 obs.)
TURKEY (366)
MD 4.1 (ISK). Felt at Comeli.

ELL	0.45	141	iPg	12	02.30	0.0
BCK	0.90	66	iPn	12	10.50	0.0
KSL	0.97	179	eP	12	11.50	-0.1
YER	1.02	273	iPn	12	17.80	5.4X
KHL	1.23	359	iPn	12	15.50	-0.5
CIN	1.27	294	eP	12	16.00	-0.8
ARG	1.45	233	eP	12	17.70	-1.6
			eS	12	42.00	
ALT	2.01	12	iPn	12	28.60	1.1
IZM	2.23	306	iPn	12	31.20	0.4
SMG	2.25	287	eP	12	30.60	-0.3
KAP	2.46	232	eP	12	35.00	1.0
DST	2.61	344	iPn	12	35.90	-0.2
PPCY	3.16	133	eP	12	47.20	3.4X
IZI	3.24	359	ePn	12	45.30	0.3
GPA	3.24	10	ePn	12	45.00	-0.1
KCT	3.29	344	iPn	12	45.20	-0.5
PRK	3.36	311	eP	12	50.00	3.3X
YLV	3.47	358	ePn	12	48.00	-0.3
BNT	3.50	339	iPn	12	49.30	0.7
EDC	3.51	338	ePn	12	49.40	0.7
NPS	3.68	241	eP	12	50.70	-0.5
GBZT	3.69	359	eP	13	05.70	14.3X
BBTK	3.72	42	iPd	12	54.00	2.0
EZN	3.72	318	ePn	12	53.00	1.1
HRT	3.72	1	ePn	12	52.00	0.1
CSS	3.73	124	eP	12	55.00	3.0X
KGT	3.79	333	iPn	12	52.80	0.1
ISK	3.98	355	ePn	12	56.00	0.5
VAM	4.64	250	eP	13	06.80	1.9
DMK	4.92	344	ePn	13	08.20	-0.6
VLI	5.32	268	eP	13	15.50	1.0
MML	6.70	132	eP	13	34.00	0.0
			eS	14	51.00	
SHMJ	6.71	129	(P)	13	34.86	0.8
VAY	6.87	310	ePn	13	39.80	3.5X
BURJ	7.07	131	Pc	13	40.29	1.1
JARJ	7.15	131	Pc	13	41.20	0.8
SALJ	7.16	133	Pc	13	41.60	1.1
KFNJ	7.26	134	Pd	13	41.67	-0.2
DSI	7.32	137	eP	13	44.00	1.4
MASJ	7.39	135	Pd	13	43.45	-0.2
MDSJ	7.77	133	(P)	13	57.72	8.7X
SKO	7.94	310	ePn	13	54.50	3.2X
CSTJ	8.38	133	Pc	13	55.12	-2.5
KHC	16.71	321	eP	15	53.50	4.7X
CDF	19.81	312	eP	16	26.00	-0.7
	0.9s	8.20nm			4.0mb	
HAU	20.20	310	eP	16	29.60	-1.1
	1.1s	14.65nm			4.2mb	
BCAO	34.04	200	ePd	18	49.00	9.5X
	0.6s	3.00nm			4.4mb	
GKN	46.75	85	P	20	23.60	-1.0
	1.0s	28.00nm			5.3mb	
DMN	47.30	85	P	20	28.20	-0.8
	0.8s	28.00nm			5.4mb	
KKN	47.35	84	P	20	28.20	-1.2
	0.6s	9.00nm			5.0mb	
PKI	47.55	85	P	20	31.40	0.3
	0.8s	13.00nm			5.1mb	
GUN	47.78	84	P	20	31.00	-1.9
FRB	60.81	330	eP	22	07.00	-0.2
YKA	76.65	344	eP	23	44.10	-1.2
	0.9s	0.40nm			3.5mb	X

S.D. = 1.0 on 44 of 54 obs.

? JAN 13, 1991 05h 34m 53.50± 1.12s
37.040 N ±10.5km 29.438 E ± 8.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ELL	0.48	128	iPg	35	03.30	0.1
			eSg	35	10.30	
BCK	1.01	65	iPn	35	12.50	-0.2
CIN	1.21	298	eP	35	16.00	-0.1
KHL	1.28	3	iPn	35	17.50	0.2

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

% JAN 13, 1991 05h 39m 44.86± 0.94s
41.789 N ± 6.6km 12.707 E ± 9.6km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

RMP	0.02	351	Pc	39	46.90	0.1
			eSg	39	48.70	
RDP	0.03	167	P	39	47.00	0.1
			eSg	39	49.00	
AZI	0.58	70	P	39	57.00	0.4
			eSg	40	06.00	
MNS	0.60	358	P	39	56.40	-0.5
			eSg	40	05.40	
SDI	0.83	95	P	40	00.60	-0.4
			eSg	40	14.40	
ASS	1.28	358	P	40	09.00	0.3
			eSg	40	26.50	
ARV	1.72	6	P	40	15.00	0.0
			eSg	40	37.00	

S.D. = 0.4 on 7 of 7 obs.

? JAN 13, 1991 05h 44m 21.76± 1.09s
37.032 N ±10.2km 29.496 E ± 8.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.3 (ISK).

ELL	0.43	130	iPg	44	30.80	0.1
			iSg	44	37.80	
BCK	0.97	64	iPn	44	40.00	-0.3
CIN	1.26	297	eP	44	45.00	-0.1
KHL	1.29	1	iPn	44	46.00	0.3

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

% JAN 13, 1991 05h 59m 05.27± 0.81s
44.055 N ±12.4km 11.111 E ± 5.1km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

MME	0.33	295	Pc	59	12.10	0.0
			eSg	59	17.40	
BDI	0.37	271	Pd	59	13.00	0.1
			eSg	59	18.70	
PII	0.54	232	P	59	16.20	0.0
			eSg	59	24.30	
SFI	0.55	104	P	59	17.10	0.7
			eSg	59	24.70	
CRE	0.74	125	P	59	20.10	0.2
			eSg	59	32.70	
ARV	1.44	112	P	59	30.50	-0.9

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

JAN 13, 1991 06h 03m 06.07± 0.82s
50.965 N ± 5.8km 6.269 E ± 6.9km
DEPTH = 10.0km (geophysicist)
GERMANY (543)
ML 1.9 (BNS).

GSH	0.24	163	iPgd	03	11.80	0.6
			iSg	03	15.50	
ENN	0.30	228	iPgd	03	12.30	0.1
	0.3s	11.00nm				
			iSg	03	16.40	
KLL	0.32	175	iPgc	03	13.10	0.4
	0.4s	******nm				
			iSg	03	17.80	
PLH	0.35	83	iPg	03	13.30	0.0
BNS	0.57	90	iPgd	03	18.00	0.3
	0.1s	144.00nm				
			iSg	03	25.60	
WTS	1.09	18	ePg	03	26.50	0.1
	0.5s	4.00nm				
			iSg	03	41.50	
ABH	1.36	143	ePn	03	30.46	-0.6
RUP	1.36	158	ePn	03	30.29	-0.8

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

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* JAN 13, 1991 06h 35m 44.79± 1.78s
23.848 N ±24.1km 96.221 E ±24.5km
DEPTH = 33.0km (normal)
3.8mb (1 obs.)
BURMA (296)

CHG	5.61	153	eP	37	08.10	-0.1
BDT	7.07	158	eP	37	28.70	0.1
GUN	10.15	296	P	38	11.62	-0.1
PKI	10.43	293	P	38	15.76	0.2
KKN	10.61	294	P	38	18.28	0.4
DMN	10.70	293	P	38	18.78	-0.3
GKN	11.22	294	P	38	25.86	-0.2
GBA	20.48	244	Pc	40	22.50	0.0
	0.8s		4.00nm			3.8mb

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

? JAN 13, 1991 06h 46m 46.75± 0.97s
37.104 N ± 8.4km 29.670 E ± 9.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ELL	0.40	152	iPg	46	54.80	-0.2
BCK	0.81	64	ePn	47	03.00	0.4
KHL	1.22	355	iPn	47	09.00	-0.5
CIN	1.36	292	eP	47	12.00	0.4

S.D. = 0.8 on 4 of 4 obs.

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* JAN 13, 1991 06h 52m 27.43± 1.11s
22.476 S ± 9.0km 68.072 W ±10.8km
DEPTH = 165.0 ± 10.2 km
4.6mb (6 obs.)
NORTHERN CHILE (123)

CCH	5.38	20	P	53	49.70	2.5
CNCB	5.64	1	P	53	51.00	0.1
LPB	5.91	360	P	53	55.00	0.6
	1.0s	96.00nm				5.0mb
			i	54	15.00	
ZOBO	6.17	360	P	53	58.30	0.3
ARE	6.80	331	eP	54	04.00	-2.1
SIV	9.23	47	Pc	54	35.90	-2.3
MDZ	10.39	184	eP	54	53.90	0.6
NNA	13.37	320	eP	55	35.00	3.0X
	1.0s	15.00nm				4.4mb
PPD	15.53	92	eP	55	57.80	-1.1
			e	56	00.50	
VAO	19.47	96	eP	56	39.00	-4.9X
			e	57	07.30	
			e	57	18.90	
BAO	20.15	74	ePc	56	51.50	0.7
TUL	63.72	335	eP	02	41.70	-1.8
	1.0s	9.20nm				4.6mb
SPA	67.66	180	iPd	03	09.50	1.0
	1.0s	15.00nm				4.7mb
ALQ	67.73	327	iPd	03	09.30	0.0
	0.8s	6.90nm				4.5mb
ANMO	67.74	327	P	03	09.60	0.3
LIC	67.92	73	P	03	10.80	0.2
GAC	68.18	354	eP	03	13.00	1.4
KIC	68.24	73	P	03	12.50	-0.1
GOL	70.98	330	P	03	29.00	-0.1
TNP	75.88	322	P	03	58.00	0.5
SCH	76.98	1	eP	04	04.00	1.1
YKA	92.36	340	eP	05	19.70	0.1
	0.9s	2.80nm				4.4mb
ASPA	129.40	206	ePKP	11	12.70	-5.8X
	0.7s	6.60nm				
WRA	132.50	209	PKP	11	22.00	-2.4
	0.7s	4.10nm				
KOD	144.86	105	ePKP	11	47.00	-0.4
GBA	146.11	99	PKP	11	50.00	0.9
HYB	148.27	93	ePKP	11	56.00	3.5X

S.D. = 1.3 on 23 of 27 obs.

? JAN 13, 1991 07h 45m 01.81± 7.04s
10.098 S ±63.7km 123.226 E ±31.2km
DEPTH = 33.0km (normal)
4.0mb (1 obs.)
TIMOR (289)

KNA	7.79	137	eP	46	56.00	0.2
			eS	48	24.00	
MTN	8.21	110	eP	47	01.00	-0.7
	0.3s	37.00nm				6.0mb X
			eS	48	32.00	
MBL	11.47	196	eP	47	46.40	-0.1
			eS	49	48.00	
WARB	16.32	169	eP	48	44.50	-5.8X
			eS	51	49.00	
ASPA	16.91	144	eP	48	57.10	-0.6
	0.4s	4.70nm				4.0mb
			eS	51	54.60	
OIS	18.89	125	iPd	49	23.40	1.1

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

JAN 13, 1991 07h 51m 07.12± 0.60s
35.500 N ± 7.8km 141.186 E ± 6.8km
DEPTH = 33.0km (normal)
4.6mb (12 obs.) 4.1Msz (2 obs.)
NEAR EAST COAST OF HONSHU, JAPAN(228)

KAKJ	1.08	311	iPd	51	25.20	-0.8
			S	51	39.20	
CHJJ	1.86	288	P	51	37.60	0.3
			S	52	02.80	
NIIJ	2.47	315	P	51	46.50	0.5
MAT	2.63	294	eP	51	49.00	0.8
			eS	52	20.00	
IIDJ	2.67	271	P	51	50.00	1.2
YAMJ	2.82	341	P	51	51.90	1.0
MTMJ	2.95	293	P	51	53.70	0.9
OFUJ	3.59	6	P	52	02.50	0.7
			eS	52	47.50	
TSRJ	4.24	272	eP	52	10.40	-0.7
WKYJ	4.77	256	eP	52	20.10	1.5
AOMJ	5.09	353	eP	52	23.70	0.6
TKSJ	6.07	258	eP	52	39.00	2.1
YONJ	6.32	269	eP	52	41.90	1.5
MRRJ	6.92	359	eP	52	46.10	-2.6
HODJ	7.07	13	P	52	48.10	-2.7
			S	54	08.60	
KUSJ	8.06	19	eP	53	00.50	-4.3X
			eS	54	29.10	
ASAJ	8.68	7	eP	53	09.30	-4.0X
MDJ	12.71	319	eP	54	12.50	4.3X
CN2	14.67	309	eP	54	34.00	0.0
Z	14s	0.70um				
SNY	15.13	300	eP	54	42.80	2.9X
Z	24s	0.60um				
E	29s	0.60um				
			S	57	26.00	
BJI	20.26	290	eP	55	37.00	-5.4X
WHN	23.01	265	eP	56	09.50	-0.5
E	14s	0.70um				
TIY	23.15	284	Pd	56	05.50	-6.0X
Z	20s	0.60um				4.0Msz
E	20s	0.70um				
XAN	26.48	276	P	56	39.50	-3.7X
LZH	30.18	282	eP	57	13.50	-3.2X
	2.0s	36.00nm				4.8mb
Z	18s	0.44um				4.1Msz
			pP	57	22.00	29kmX
			sP	57	27.00	
GYA	30.81	263	P	57	19.00	-3.3X
WMQ	41.39	298	P	58	51.20	-0.6
GUN	47.14	277	P	59	38.02	-0.6
PKI	47.66	277	P	59	41.50	-1.2
	0.8s	8.00nm				4.8mb
KKN	47.67	277	P	59	40.94	-1.7
DMN	47.89	277	P	59	41.92	-2.5
GKN	48.11	278	P	59	44.56	-1.4
FBA	50.50	32	P	00	05.90	2.3
WRA	55.52	188	P	00	40.00	-1.3
	0.5s	3.10nm				4.6mb
INK	55.84	27	eP	00	44.00	0.9
HYB	57.99	269	eP	00	57.40	-1.8
MBC	58.05	16	eP	00	59.50	0.8
	1.0s	5.00nm				4.5mb
ASPA	59.25	188	eP	01	07.50	-0.1
	0.6s	3.00nm				4.6mb
GBA	60.92	266	P	01	18.00	-1.3
KEV	64.81	339	eP	01	42.00	-2.4
YKA	65.23	30	eP	01	47.00	-0.1
	0.8s	2.00nm				4.3mb
KAF	69.59	333	iP	02	13.90	-0.6
	0.5s	3.10nm				4.6mb
NUR	71.22	332	eP	02	23.90	-0.5
FFC	75.10	32	iPd	02	48.60	1.3
	1.0s	18.00nm				5.0mb
HFS	75.41	336	eP	02	49.20	0.3
	0.5s	1.10nm				4.1mb
NB2	75.53	337	P	02	49.90	0.2
	0.8s	6.40nm				4.7mb
TNP	76.96	53	P	03	00.30	1.9
FRB	78.31	13	eP	03	06.00	1.0
KSP	81.31	328	eP	03	22.00	0.7
BRG	82.28	329	e(P)	03	34.00	7.7X
CLL	82.33	330	iP	03	27.20	0.6
	0.9s	8.00nm				4.8mb
PRU	82.69	329	eP	03	30.00	1.5
KHC	83.75	328	eP	03	35.00	0.9
ALQ	85.72	50	eP	03	47.00	2.6X

1.0s 3.00nm 4.5mb
ZOBO 147.60 61 PKP 10 52.00 4.0X
LPB 147.79 62 PKP 10 53.00 4.9X
CNCB 148.06 62 ePKP 10 52.00 3.3X
i 10 54.20
SIV 152.20 51 PKP 11 03.30 8.9X
S.D. = 1.3 on 43 of 58 obs.

• JAN 13, 1991 08h 08m 41.15± 2.00s
7.839 S ±12.5km 131.066 E ±23.4km
DEPTH = 81.9 ± 19.2 km
5.1mb (6 obs.)
TANIMBAR ISLANDS REGION (281)

MTN 4.98 179 eP 09 58.00 3.0
AAI 5.02 325 eP 09 54.10 -1.4
KNA 8.18 196 eP 10 39.00 -0.2
0.3s 51.00nm 5.8mb
eS 12 05.00
QIS 15.10 148 eP 12 11.00 -0.4
eS 14 52.00
ASPA 15.97 171 eP 12 21.20 -1.2
0.3s 12.80nm 4.6mb
eS 15 05.60
MBL 17.12 218 eP 12 34.20 -2.5
0.4s 9.00nm 4.4mb
WARB 18.72 192 eP 12 57.00 0.8
eS 16 20.00
FORR 23.06 187 eP 13 44.00 3.8X
0.4s 56.00nm 5.3mb
CHTO 41.29 310 P 16 20.20 -0.1
GUN 56.30 311 P 18 17.40 1.1
0.6s 15.00nm 5.2mb
PKI 56.47 310 P 18 18.40 0.8
KKN 56.68 311 P 18 19.60 0.7
DMN 56.72 310 P 18 20.00 0.7
GKN 57.28 310 P 18 24.00 1.0
0.6s 11.00nm 5.1mb
CNCB 149.10 143 PKP 28 30.00 11.2X
LPB 149.24 142 ePKP 28 30.00 11.1X
ZOBO 149.43 142 PKP 28 17.00 -2.3
e 28 30.00
S.D. = 1.7 on 14 of 17 obs.

% JAN 13, 1991 08h 12m 46.35± 0.55s
42.697 N ± 4.0km 13.121 E ± 7.4km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

AQU 0.40 149 P 12 53.50 -1.1
eSg 12 59.50
MNS 0.45 226 Pc 12 54.80 -0.7
eSg 13 01.40
ASS 0.50 318 P 12 56.30 -0.3
eSg 13 04.00
AZI 0.75 162 P 13 01.60 0.7
eSn 13 12.90
ARV 0.81 351 P 13 01.70 -0.4
eSg 13 14.30
RMP 0.94 199 P 13 04.70 0.4
eSg 13 17.90
RDP 0.98 198 P 13 05.80 0.7
eSg 13 20.00
SDI 1.12 152 P 13 07.40 0.1
eSn 13 23.20
CRE 1.26 318 P 13 10.60 0.7
eSg 13 28.10
RSM 1.32 339 P 13 11.70 1.0
eSn 13 28.40
SFI 1.53 323 P 13 13.50 -0.3
eSn 13 33.10
BDI 2.29 307 P 13 24.00 -0.8
eSn 13 51.80
S.D. = 0.8 on 12 of 12 obs.

? JAN 13, 1991 08h 19m 08.76± 8.76s
4.672 N ±61.5km 76.859 W ±42.8km
DEPTH = 33.0km (normal)
COLOMBIA (103)
MD 2.7 (UVC).

HOBC 0.79 114 iPd 19 23.58 0.0
eS 19 32.30
CLMC 0.84 159 iPc 19 24.96 0.6
eS 19 34.70
BUGC 0.98 142 eP 19 26.19 -0.1
ANCC 1.15 180 eP 19 28.63 0.0
HOOC 1.22 169 iPc 19 29.57 -0.2
eS 19 42.80
DIAC 1.52 154 ePc 19 33.83 -0.3
S.D. = 0.4 on 6 of 6 obs.

• JAN 13, 1991 09h 19m 36.52± 0.79s
1.839 S ± 7.2km 78.562 W ±15.0km
DEPTH = 142.3 ± 7.4 km
4.3mb (3 obs.)
ECUADOR (107)

TUNG 0.43 16 P 19 55.50 -1.8
VC1 1.20 7 P 20 03.80 0.5
eS 20 25.40
GGP 1.65 359 iPd 20 08.60 0.4
eS 20 42.00
YANA 1.71 360 eP 20 09.00 0.3
ANGL 1.76 35 eP 20 20.10 10.9X
CAYA 1.99 17 iP 20 12.90 0.8
COTA 2.17 6 P 20 15.20 1.0
eS 20 57.70
CUMC 2.87 14 iPc 20 24.45 1.5
eS 20 58.90
PURC 4.68 28 eP 20 48.10 1.1
SILC 5.02 26 eP 20 52.00 0.7
SALC 5.13 21 eP 20 54.00 1.4
ANCC 5.58 18 eP 20 57.80 -0.8
HOOC 5.61 20 eP 20 57.30 -1.9
CLMC 6.02 19 eP 21 03.20 -1.5
HOBC 6.61 22 eP 21 10.60 -2.1
NNA 10.23 170 eP 22 00.00 -0.9
0.6s 8.00nm 4.6mb
eS 23 44.00
ZOBO 17.64 145 eP 23 30.00 -5.6X
LPB 17.87 145 P 23 40.00 1.9
CNCB 18.16 146 P 23 41.00 -0.5
SIV 22.24 130 P 24 22.50 0.0
TUL 40.86 338 e(P) 27 05.10 -0.7
ALO 44.97 327 eP 27 40.30 0.9
0.9s 8.40nm 4.4mb
e 28 27.00
TNP 53.39 322 P 28 44.70 0.8
YKA 69.70 343 eP 30 30.20 -2.2
0.6s 0.60nm 3.6mb
INK 79.41 342 eP 31 28.50 0.6
MBC 81.36 351 eP 31 38.50 0.5
S.D. = 1.3 on 24 of 26 obs.

• JAN 13, 1991 09h 34m 37.46± 0.87s
20.482 S ±12.8km 172.956 W ±21.1km
DEPTH = 33.0km (normal)
4.8mb (3 obs.)
TONGA ISLANDS REGION (174)

DZM 19.26 262 iPc 39 03.00 0.7
MNG 22.36 204 eP 39 33.20 -0.9
LTZ 25.47 206 eP 40 04.90 0.7
CMS 38.44 245 eP 41 53.00 -5.0X
WRA 49.28 261 P 43 19.00 -6.4X
0.6s 4.40nm 4.7mb
MAT 73.10 321 eP 46 03.00 -3.5X
ALQ 83.75 49 eP 47 09.00 4.0X
CN2 85.24 320 eP 47 11.00 -1.0
TIA 86.81 310 eP 47 18.70 -1.2
FBA 87.29 10 eP 47 22.30 0.7
IPM 87.86 276 ePc 47 24.20 -1.3
0.7s 34.10nm 5.7mb
SNG 89.15 278 eP 47 32.90 1.3
BJI 89.26 313 eP 47 30.50 -1.0
TIY 90.83 310 eP 47 40.00 1.0
XAN 91.92 306 P 47 43.50 -0.6
HHC 92.77 313 eP 47 48.40 0.5
INK 93.08 14 eP 47 49.00 0.5
BDT 94.12 287 eP 47 54.80 0.4
YKA 94.57 23 eP 48 04.00 8.5X
1.1s 1.40nm 4.3mb
CHG 94.71 288 eP 47 57.20 0.1
KRA 148.76 344 ePKP 54 12.60 -6.3X
e 54 34.30
KSP 148.84 349 ePKPc 54 24.00 5.0X
id 54 35.40
CLL 148.88 353 ePKP 54 24.00 4.9X
1.5s 24.00nm
BRG 149.19 351 e(PKP)54 28.10 8.5X
1.0s 14.00nm
PRU 149.96 350 ePKP 54 27.00 6.3X
e 54 38.10
e 25 23.00
e 25 31.50
KHC 150.94 351 PKP 54 29.60 7.3X
ZST 151.18 346 e(PKP)54 30.60 8.0X
e 54 36.00
SRO 151.25 344 ePKP 54 34.40 11.7X
S.D. = 1.0 on 15 of 28 obs.

% JAN 13, 1991 09h 35m 32.63± 0.86s
38.453 N ± 8.1km 21.811 E ±11.2km
DEPTH = 33.0km (normal)
GREECE (364)
MD 2.8 (ATH).

EVR 0.46 360 ePn 35 41.70 -1.1
eSn 35 50.00
VLS 1.00 254 ePb 35 51.00 0.6
ITM 1.27 176 ePn 35 54.00 -0.2
NEO 1.39 52 ePn 35 57.00 1.0
VLI 1.95 152 ePn 36 03.60 -0.4
S.D. = 1.2 on 5 of 5 obs.

? JAN 13, 1991 09h 49m 02.00± 1.10s
37.042 N ±10.3km 29.466 E ± 8.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ELL 0.46 129 iPg 49 11.30 -0.1
iSg 49 20.80
BCK 0.99 65 ePn 49 21.00 0.2
CIN 1.23 297 eP 49 25.00 0.1
KHL 1.28 2 ePn 49 25.60 -0.2
S.D. = 0.3 on 4 of 4 obs.

JAN 13, 1991 09h 59m 03.19± 0.77s
41.109 N ± 5.9km 22.363 E ± 5.7km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MD 1.5 (THE). ML 1.3 (SKO).

GRG 0.16 169 iPc 59 06.56 -0.3
eS 59 08.84
VAY 0.26 36 iPg 59 09.00 0.3
iSg 59 13.20
KNT 0.41 82 ePc 59 11.33 -0.2
eS 59 17.00
THE 0.66 136 ePd 59 16.40 0.1
SOH 0.80 111 ePd 59 18.64 -0.2
eS 59 29.20
FNA 0.82 247 ePc 59 18.80 -0.2
SRS 0.93 89 ePd 59 20.88 -0.1
eS 59 33.80
LIT 1.01 174 ePd 59 22.92 0.6
eS 59 37.68
S.D. = 0.3 on 8 of 8 obs.

JAN 13, 1991 10h 13m 14.43± 0.22s
5.827 N ± 4.8km 94.748 E ± 4.4km
DEPTH = 66.7km (9 depth phases)
5.0mb (30 obs.)
NORTHERN SUMATERA (706)

IPM 6.37 101 ePd 14 48.40 0.5
0.6s 71.70nm 5.3mb
e 15 57.40
KLM 7.39 111 eP 15 02.00 0.0
KGM 9.35 114 ePc 15 30.50 1.5
PCT 10.97 36 eP 15 56.00 5.0X
NST 11.12 28 eP 16 00.00 7.0X
BDT 12.09 20 eP 16 09.90 4.0X
0.5s 21.80nm 5.4mb
LOE 13.38 30 eP 16 29.00 6.0X
CHG 13.54 17 ePc 16 30.00 4.9X
0.9s 54.62nm 5.2mb
KOD 17.66 285 eP 17 19.50 1.6
GBA 18.72 296 Pc 17 30.90 0.4
0.7s 75.70nm 5.0mb
HYB 19.58 307 ePd 17 40.40 0.4
1.4s 250.00nm 5.3mb
QIZ 19.71 47 Pd 17 43.20 1.9
0.8s 30.00nm 4.6mb
KMI 20.66 21 Pc 17 58.50 7.1X
1.5s 50.00nm 4.6mb
TRT 22.34 127 ePd 18 07.00 -0.9
0.7s 48.30nm 5.0mb
PKI 23.38 339 P 18 17.82 -0.5
GYA 23.46 28 iPd 18 20.60 1.7

13d 10h

	1.0s	100.00nm		5.2mb			
		S	22	27.20			
DMN	23.52	338 P	18	19.10	-0.6		
GUN	23.52	340 P	18	18.64	-1.2		
KKN	23.62	339 P	18	19.54	-1.1		
POO	23.98	304 iPd	18	26.30	2.4		
	0.8s	22.39nm		4.7mb			
GKN	24.05	338 P	18	24.34	-0.4		
CD2	26.35	18 iPc	18	45.80	-0.3		
	0.7s	100.00nm		5.5mb			
		S	23	11.70			
NDI	28.15	326 eP	19	19.50	17.0X		
WHN	30.73	35 eP	19	27.50	2.1		
XAN	31.00	23 Pc	19	27.00	-0.8		
		S	24	24.50			
LZH	31.25	14 eP	19	29.00	-1.2		
	1.3s	43.00nm		5.0mb			
Z	25s	0.42um		4.0MszX			
GTA	33.74	7 eP	19	51.00	-0.8		
	1.0s	30.00nm		5.2mb			
		pP	20	09.30	77km		
		sP	20	18.60			
		PcP	22	29.80			
		ScP	26	06.60			
		PcS	26	11.70			
		ScS	30	06.00			
SSE	35.31	41 iPc	20	06.00	0.9		
	0.9s	13.00nm		4.9mb			
Z	18s	0.50um		4.3Msz			
TIY	35.59	24 eP	20	07.50	-0.1		
QUE	35.66	316 iPc	20	09.70	1.3		
TIA	36.55	31 eP	20	15.50	0.0		
	1.4s	30.00nm		5.0mb			
BTO	37.23	19 eP	20	21.50	0.2		
HHC	37.98	21 eP	20	28.30	0.6		
BJI	39.14	26 eP	20	38.00	0.9		
	1.0s	53.00nm		5.4mb			
		esS	27	12.00			
		eSS	29	32.00			
MUN	42.80	153 iPd	21	07.20	-0.1		
SNY	44.08	31 iPc	21	17.60	0.1		
	1.0s	100.00nm		5.6mb			
		pP	21	40.40	96kmX		
MAIO	44.29	318 eP	21	08.00	-11.6X		
WARB	44.38	137 iPd	21	19.50	-0.8		
CN2	46.45	31 Pc	21	36.40	0.0		
		sP	22	06.00			
ASPA	48.15	129 iPc	21	48.90	-1.2		
	0.5s	56.00nm		5.8mb			
Z	23s	0.10um		3.7MszX			
		iS	28	38.90			
MDJ	49.18	33 eP	21	58.00	0.4		
MAT	50.11	46 (P)	22	04.00	-1.0		
QIS	51.27	122 iPc	22	12.50	-1.5		
ADE	57.95	138 eP	23	02.10	-0.4		
	1.0s	82.00nm		5.8mb			
CMS	61.21	131 eP	23	24.00	-0.9		
RMQ	61.36	124 iPd	23	27.00	1.0		
BFD	61.76	138 eP	23	30.00	1.5		
TOO	63.96	137 eP	23	43.60	0.5		
COO	65.51	127 eP	23	52.00	-1.3		
SLR	71.65	241 iPc	24	31.50	-0.1		
KAF	74.88	333 iP	24	48.80	-0.7		
	0.5s	4.90nm		4.7mb			
NUR	75.21	331 iP	24	42.20	-9.2X		
		e	24	52.00	31kmX		
DZM	75.40	114 iPc	24	54.90	1.6		
KRA	75.81	320 eP	24	54.50	-0.5		
		i	25	14.30	74km		
BCAO	75.87	273 iPd	24	58.00	1.9		
	0.8s	14.00nm		4.9mb			
		id	25	16.10	66km		
SOD	76.32	338 iP	24	56.00	-1.6		
KEV	76.95	341 eP	25	20.00	18.9X		
	0.5s	15.40nm					
ZST	77.44	318 eP	25	04.10	-0.1		
		i	25	21.10	61km		
VKA	77.97	318 eP	25	06.00	-1.1		
		i	25	25.30	71km		
KSP	78.21	321 eP	25	08.50	0.1		
		i	25	26.50	66km		
VBY	78.50	315 e(P)	25	10.60	0.5		
		e	25	27.60	61km		
		i	25	30.20			
VOY	79.48	316 e(P)	25	15.40	-0.1		
		i	25	32.60	62km		
KHC	79.84	319 eP	25	18.00	0.7		

ARV	80.07	313 Pd	25	20.00	1.4		
CLL	80.32	321 eP	25	23.00	3.3X		
		e	25	37.00	48kmX		
RSM	80.44	313 Pd	25	23.60	3.1X		
HFS	80.52	330 eP	25	19.70	-0.9		
	0.6s	8.50nm		4.9mb			
SFI	80.87	313 Pd	25	26.20	3.5X		
SQTA	81.37	317 iPd	25	25.00	-0.5		
	0.9s	11.00nm		4.8mb			
		i	25	42.40	63km		
		i	25	44.80			
NB2	81.80	331 P	25	26.10	-1.2		
	0.8s	3.40nm		4.4mb			
LPG	84.48	315 eP	25	41.50	-0.2		
	0.7s	5.50nm		4.7mb			
LPL	84.49	315 eP	25	41.40	-0.3		
	0.7s	5.50nm		4.7mb			
HAU	84.64	318 eP	25	41.40	-0.7		
	0.7s	6.60nm		4.8mb			
LBF	86.31	317 eP	25	49.90	-0.6		
LOR	86.37	317 eP	25	50.30	-0.4		
	0.7s	3.85nm		4.6mb			
SMF	86.43	316 eP	25	50.50	-0.5		
AVF	86.75	317 eP	25	52.10	-0.4		
MNG	86.76	131 P	25	51.90	-0.8		
BGF	87.12	316 eP	25	54.30	0.0		
MAF	87.35	316 eP	25	55.40	0.0		
PGZ	87.35	131 P	25	55.20	-0.3		
ANM	89.01	25 eP	26	02.80	-0.2		
BRW	90.36	18 eP	26	09.50	0.3		
IMA	93.28	22 eP	26	23.40	0.5		
	0.7s	10.00nm		5.4mb			
TTA	93.46	26 eP	26	23.90	0.2		
MBC	95.70	8 ePc	26	33.10	-0.6		
	0.9s	11.00nm		5.4mb			
INK	98.78	16 eP	26	47.00	-0.7		
TNP	127.17	32 PKP	32	13.00	-0.5		
ALQ	134.79	25 ePKP	32	27.00	-1.1		
PPD	143.46	240 ePKP	32	42.00	-2.0		
		e	32	44.70			
SIV	154.23	245 PKP	33	01.50	0.7		
CNC8	159.87	236 PKP	33	10.20	1.8		
		i	33	49.00			
LPB	160.11	236 PKP	33	09.00	0.5		
ZOBO	160.26	237 PKP	33	10.10	1.3		
	S.D. = 1.0	on	81	of	94	obs.	

? JAN 13, 1991 10h 41m 59.44± 1.35s
32.002 N ±36.1km 72.843 E ±10.8km
DEPTH = 33.0km (normal)
4.5mb (4 obs.)
PAKISTAN (710)

NDI	5.02	130 iPnc	43	14.50	0.0		
		eSn	44	34.00			
GKN	10.97	108 P	44	37.62	0.3		
DMN	11.51	109 P	44	44.68	-0.1		
KKN	11.58	108 P	44	45.24	-0.4		
	0.5s	28.00nm		5.7mb	X		
PKI	11.77	109 P	44	47.72	-0.7		
	0.3s	7.00nm		5.3mb			
GUN	12.02	106 P	44	51.34	-0.3		
	0.4s	45.00nm		6.0mb	X		
HYB	15.41	159 eP	45	43.50	7.3X		
CHTO	26.90	113 P	47	41.00	1.6		
		pP	47	50.60	34kmX		
HFS	47.57	324 eP	50	39.20	5.7X		
	0.4s	0.50nm		3.9mb			
NB2	48.91	325 P	50	57.70	13.7X		
	0.7s	1.70nm					
BCAO	57.67	253 ePc	51	49.00	-0.3		
	0.3s	5.00nm		5.0mb			
WRA	78.31	122 P	53	58.00	-0.1		
	1.0s	1.10nm		3.8mb			
	S.D. = 0.7	on	9	of	12	obs.	

? JAN 13, 1991 11h 31m 15.51± 2.35s
4.346 N ±16.7km 75.795 W ±32.5km
DEPTH = 120.0km (geophysicist)
COLOMBIA (103)
MD 4.5 (UVC).

HOBC	0.34	272 iPc	31	33.17	0.2		
		eS	31	48.90			
BUGC	0.64	226 iPc	31	35.37	0.5		
		eS	32	52.80			
CLMC	0.89	239 iPc	31	37.85	0.8		

DIAC	1.12	201 iPc	31	39.25	0.0		
		eS	32	59.60			
HOOC	1.21	224 iPc	31	39.90	-0.4		
ANCC	1.35	232 iPc	31	41.35	-0.3		
		eS	32	03.30			
SALC	1.63	213 iPc	31	44.50	-0.6		
		eS	32	08.80			
SILC	1.73	198 iPd	31	46.63	0.1		
		eS	32	12.50			
PURC	2.09	196 eP	31	51.18	0.1		
		eS	32	20.50			
CUMC	3.95	212 ePc	32	13.52	-2.3		
	S.D. = 1.0	on	10	of	10	obs.	

% JAN 13, 1991 11h 33m 19.15± 0.89s
39.136 N ± 7.2km 27.570 E ±12.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.4 (ISK).

IZM	0.77	198 ePg	33	34.30	0.0		
		eS	33	46.00			
DST	0.95	60 ePn	33	37.10	-0.1		
BNT	1.25	12 iPn	33	42.10	-0.2		
KCT	1.27	28 ePn	33	43.00	0.3		
KGT	1.33	351 iPn	33	43.70	0.0		
	S.D. = 0.3	on	5	of	5	obs.	

% JAN 13, 1991 11h 37m 31.47± 0.88s
39.188 N ± 7.2km 27.641 E ±11.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.4 (ISK).

IZM	0.84	201 ePg	37	47.80	0.0		
		eSg	37	58.30			
DST	0.87	61 ePn	37	48.10	-0.2		
BNT	1.19	10 ePn	37	53.60	0.0		
KCT	1.19	27 ePn	37	54.00	0.3		
KGT	1.29	348 iPn	37	55.20	-0.1		
	S.D. = 0.2	on	5	of	5	obs.	

JAN 13, 1991 11h 53m 36.72± 0.16s
40.558 N ± 3.5km 105.793 E ± 2.9km
DEPTH = 16.5km (6 depth phases)
5.2mb (50 obs.) 5.6Msz (2 obs.)
NORTHERN CHINA (323)

BTO	3.22	88 iPnd	54	28.00	0.3		
		Pg	54	32.00			
		Sg	55	11.00			
HHC	4.40	84 Pnd	54	43.80	-0.6		
Z	12s	20.10um					
		Pg	54	54.60			
		Sg	55	51.20			
LZH	4.72	200 iPnd	54	50.00	1.0		
Z	12s	21.00um					
		Pg	55	05.00			
		Sn	55	43.00			
		Sg	56	03.00			
GTA	4.73	258 iPnc	54	50.00	0.8		
Z	12s	20.20um					
		Pg	55	06.00			
		Sg	56	03.00			
TIY	5.89	117 Pnc	55	05.00	-0.5		
Z	13s	16.00um					
		Pg	55	23.80			
		Sg	56	34.00			
XAN	6.97	158 iPn	55	19.30	-1.3		
		Pg	55	41.00			
		Sn	56	38.00			
		Sg	57	08.50			
BJI	7.95	90 P	55	33.00	-1.3		
Z	10s	5.10um					
CD2	9.77	190 eP	55	58.10	-1.4		
Z	12s	19.00um					
		S	57	57.00			
TIA	9.90	112 eP	56	00.40	-0.8		
Z	12s	6.80um					
E	13s	5.20um					
WHN	12.17	142 eP	56	31.50	-0.7		
Z	14s	3.50um					
E	10s	3.40um					
DL2	12.31	93 P	56	36.00	2.0		
E	11s	2.40um					
SNY	13.46	79 eP	56	48.00	-1.3		
Z	12s	14.50um					

N 12s 4.00um
E 12s 8.50um
sP 56 58.80
NJ2 13.52 125 Pd 56 50.60 0.5
Z 14s 2.30um
N 12s 2.60um
E 12s 3.40um
sP 57 01.40
S 59 24.00
WMO 13.81 290 P 56 53.00 -1.0
Z 12s 3.62um
GYA 14.08 177 iPc 56 55.00 -2.7
1.0s 100.00nm 5.5mb
Z 14s 2.80um 5.2Msz
pP 57 03.00
sP 57 08.00
CN2 14.93 71 eP 57 07.10 -1.5
1.0s 150.00nm 5.4mb
Z 14s 16.00um 5.1Msz
N 10s 6.00um
E 10s 4.00um
epP 57 11.00
KMI 15.60 190 Pd 57 15.50 -2.2
1.5s 40.00nm 4.4mb
Z 12s 5.30um 5.5MszX
E 10s 4.30um
pP 57 19.00
SSE 15.63 122 eP 57 17.00 -0.8
Z 16s 5.30um
N 12s 1.60um
E 12s 2.50um
pP 57 25.00
eSS 00 28.00
LSA 16.13 232 P 57 25.40 0.8
N 20s 2.50um
E 19s 2.30um
pP 57 30.00
MDJ 17.97 69 eP 57 49.00 1.8
Z 14s 6.20um
N 12s 5.10um
GUN 20.68 239 P 58 18.68 -0.2
KKN 21.16 239 P 58 23.68 0.2
PKI 21.22 239 P 58 24.08 -0.2
DMN 21.39 239 P 58 25.86 -0.1
GKN 21.44 241 P 58 26.04 -0.3
OIZ 21.74 170 eP 58 32.00 2.8
E 13s 6.50um
KSH 22.82 277 eP 58 42.00 2.0
E 10s 7.50um
pP 58 47.00 18km
LOE 23.34 190 eP 58 45.00 0.0
NST 25.28 193 eP 59 07.50 3.8X
MAT 25.59 88 (P) 59 05.00 -1.5
0.9s 7.56nm 4.4mb
eS 03 44.00
PCT 26.06 190 eP 59 11.20 0.2
BAG 27.27 148 eP 59 22.00 -0.3
ASAJ 27.32 70 eP 59 22.50 0.1
HOOJ 28.01 74 eP 59 28.80 0.2
QUE 33.09 264 iP 00 14.40 0.5
MAIO 36.20 279 eP 00 42.00 1.6
DHR 47.83 271 eP 02 16.50 1.1
KEV 48.80 333 iP 02 22.20 -0.1
SOD 49.26 330 iP 02 26.10 0.2
KAF 50.43 323 eP 02 34.80 -0.1
RYD 51.37 271 iPc 02 43.20 0.6
NUR 51.62 321 iP 02 43.70 -0.3
0.6s 24.80nm 5.3mb
OASM 52.97 274 ePc 02 55.00 0.3
ANM 53.78 32 eP 03 00.30 0.3
UOSK 54.02 275 iPc 03 04.20 1.8
AFIF 54.32 273 iPc 03 07.50 2.8
UPP 55.15 322 iP 03 09.60 -0.5
VRI 55.65 304 ePc 03 18.00 4.0X
HFS 56.85 323 eP 03 21.20 -1.2
0.7s 21.20nm 5.3mb
Z 16s 0.48um 4.7MszX
LR 26 54.00
NB2 57.57 325 P 03 26.20 -1.4
0.9s 5.30nm 4.6mb
IMA 57.69 28 eP 03 27.80 -0.6
1.7s 35.10nm 5.1mb
DAG 57.95 347 iPd 03 28.20 -1.7
0.8s 8.21nm 4.8mb
KRA 57.95 311 eP 03 29.50 -0.7
SPC 58.16 310 iP 03 32.10 0.1
TTA 58.25 32 ePc 03 31.70 -0.6
1.2s 26.10nm 5.2mb
SVW 59.27 34 ePc 03 39.80 0.4
KSP 59.66 313 iPc 03 42.00 -0.2
SRO 59.93 309 eP 03 43.50 -0.5
MBC 59.98 11 eP 03 44.00 -0.1
1.3s 35.00nm 5.3mb
FBA 60.40 28 ePc 03 47.00 0.0
1.2s 66.10nm 5.6mb
VAY 60.41 301 eP 03 47.20 -0.2
ZST 60.46 310 eP 03 47.50 -0.2
SKO 60.83 302 iP 03 50.30 0.0
BRG 60.95 314 iPc 03 50.20 -0.8
1.3s 34.00nm 5.3mb
PRU 61.06 312 Pc 03 51.50 -0.2
1.4s 22.00nm 5.1mb
e 04 04.50 46kmX
CLL 61.25 314 iPc 03 52.30 -0.7
1.2s 34.00nm 5.4mb
i 03 56.90 15km
PMR 61.70 32 ePc 03 54.70 -1.2
KHC 62.03 312 iPc 03 58.00 -0.4
1.2s 12.50nm 5.0mb
KDC 62.37 36 eP 03 59.70 -0.7
1.0s 40.00nm 5.5mb
TOA 62.57 30 ePc 04 02.00 0.2
INK 62.83 21 eP 04 02.50 -0.8
VBY 62.91 308 e(P) 04 03.50 -0.6
KLU 63.03 31 eP 04 04.70 -0.1
GRF 63.06 313 iPc 04 05.50 0.4
1.4s 82.00nm 5.7mb
ed 04 09.80 14km
VOY 63.45 309 e(P) 04 03.00 -4.8X
FVI 63.80 310 Pd 04 11.20 1.2
SOTA 64.38 311 iPc 04 13.40 -0.6
1.0s 30.00nm 5.4mb
i 04 17.80 14km
OGA 64.68 311 iPc 04 15.50 -0.5
i 06 53.10
OSS 65.28 311 ePc 04 18.80 -1.1
ENN 65.33 316 eP 04 19.00 -0.8
1.0s 30.00nm 5.4mb
e 04 24.00 16km
SGO 65.51 303 Pd 04 23.10 2.0
SLE 65.62 313 ePc 04 21.20 -0.6
VDL 65.78 311 ePc 04 22.20 -0.9
SFI 65.80 308 Pc 04 25.40 2.4
ZLA 65.84 313 ePc 04 22.60 -0.7
CRE 65.91 307 P 04 24.10 0.3
CDF 65.93 314 eP 04 22.90 -1.0
1.1s 19.55nm 5.2mb
MNS 66.15 306 Pc 04 26.70 1.4
BSF 66.53 313 eP 04 26.50 -1.3
1.1s 19.55nm 5.2mb
HAU 66.67 314 eP 04 27.50 -1.1
1.0s 12.00nm 5.0mb
BOB 66.76 310 Pc 04 31.20 2.0
MMK 66.89 311 ePc 04 29.80 -0.5
EKA 67.04 324 Pc 04 30.90 0.2
1.0s 11.40nm 5.0mb
EMS 67.47 312 ePc 04 33.00 -0.8
LPG 67.90 311 eP 04 36.00 -0.7
0.9s 29.50nm 5.4mb
LPL 67.90 311 eP 04 35.90 -0.7
0.9s 27.85nm 5.4mb
BNI 68.21 311 Pc 04 39.90 1.5
LOR 68.47 314 eP 04 38.20 -1.7
1.1s 22.00nm 5.2mb
LBF 68.58 314 eP 04 38.80 -1.8
SSF 68.79 314 eP 04 40.50 -1.3
0.9s 9.85nm 5.0mb
SMF 68.85 314 eP 04 40.90 -1.3
1.1s 31.75nm 5.4mb
AVF 69.04 314 eP 04 42.10 -1.2
1.1s 20.75nm 5.2mb
LDF 69.78 317 eP 04 46.60 -1.2
1.2s 35.70nm 5.4mb
MAF 69.81 314 eP 04 47.30 -0.8
1.1s 28.10nm 5.3mb
FLN 69.86 317 eP 04 47.00 -1.3
1.1s 29.30nm 5.3mb
TCF 69.97 314 eP 04 48.10 -1.0
1.1s 22.00nm 5.2mb
GRR 70.29 317 eP 04 49.80 -1.1
0.6s 9.90nm 5.1mb
LSF 70.36 314 eP 04 49.90 -1.5
1.1s 9.75nm 4.8mb
LPF 70.61 317 eP 04 52.10 -0.8
1.2s 29.75nm 5.3mb
CAF 70.89 313 eP 04 54.40 -0.3
1.1s 17.10nm 5.1mb
RJF 70.96 314 eP 04 54.60 -0.5
1.1s 24.40nm 5.2mb
MFF 71.04 315 eP 04 55.00 -0.6
1.1s 46.40nm 5.5mb
LPO 71.53 313 eP 04 57.90 -0.6
0.5s 5.10nm 4.9mb
LFF 71.61 314 eP 04 58.90 -0.1
1.1s 29.30nm 5.3mb
MUN 72.81 171 eP 05 09.00 2.9X
EPF 73.05 312 eP 05 06.40 -1.2
0.9s 11.45nm 4.9mb
FRB 75.94 357 ePc 05 23.30 -0.4
RMO 77.74 141 e(P) 05 26.00 -8.3X
e 05 33.00 22km
BRS 80.46 139 iP 05 50.00 0.9
eS 15 00.00
EDM 80.67 23 ePc 05 50.00 0.1
PNT 81.97 28 eP 05 57.00 0.2
1.0s 17.00nm 5.1mb
FFC 82.15 16 iPc 05 57.70 0.1
0.9s 22.00nm 5.2mb
IFR 82.61 308 iP 06 00.00 -0.6
i 08 03.00 572kmX
NEW 83.74 27 eP 06 06.60 0.6
1.0s 12.50nm 5.1mb
SES 83.84 23 eP 06 06.00 -0.4
SCH 84.79 356 eP 06 12.00 1.0
LRM 87.45 26 eP 06 25.20 0.5
LBFM 87.71 34 eP 06 27.20 1.3
WDC 88.06 35 ePc 06 28.40 1.1
MIN 88.65 34 ePc 06 30.70 0.3
ORV 89.35 35 eP 06 34.40 0.8
BKS 90.41 36 eP 06 40.00 1.5
1.2s 44.00nm 5.6mb
CMB 91.10 35 eP 06 43.20 1.4
BW06 91.10 25 eP 06 41.80 -0.2
1.1s 11.90nm 5.1mb
RSSD 91.53 21 eP 06 45.60 1.7
SAO 91.69 36 eP 06 46.40 2.0
LLA 92.03 36 eP 06 47.70 1.7
BONR 92.06 33 eP 06 48.00 1.5
FRI 92.27 35 eP 06 48.30 1.3
TNP 92.40 33 eP 06 49.70 1.8
1.0s 8.25nm 5.1mb
PRI 92.55 36 eP 06 50.70 2.1
SHGH 98.07 285 eP 07 15.00 1.2
KOGH 98.11 285 eP 07 16.00 1.9
KUK 98.13 285 eP 07 15.60 1.5
TEGH 98.23 285 eP 07 15.00 0.5
LEGH 98.36 285 eP 07 15.50 0.4
ANMO 99.21 26 eP 07 19.00 0.0
1.0s 5.00nm 5.1mb
ALQ 99.21 26 e(P) 07 19.00 -0.1
SOB1 137.02 307 ePKP 13 02.30 1.3
BAO 146.31 310 ePKPc 13 18.40 1.0
VAO 151.14 299 ePKP 13 30.90 6.2X
NNA 151.45 5 ePKP 13 25.50 0.2
0.8s 14.93nm
e 35 37.00
SIV 152.99 331 PKP 13 35.30 7.9X
ZOBO 155.23 346 PKPc 13 31.90 0.8
1.0s 5.50nm
Z 22s 0.58um 5.4Msz
i 14 21.20
LR 05 54.00
LPB 155.48 346 PKP 13 30.00 -1.3
1.5s 288.89nm
Z 20s 1.77um 5.9Msz
i 14 21.00
LR 05 06.00
CNCB 155.73 345 PKP 13 33.00 1.2
i 14 21.20
S.D. = 1.1 on 149 of 156 obs.

JAN 13, 1991 11h 54m 36.65± 0.18s
2.928 S ± 5.3km 84.566 E ± 4.9km
DEPTH = 10.0km (geophysicist)
5.9mb (60 obs.) 5.3Msz (15 obs.)
SOUTH INDIAN OCEAN (425)
RADIATED ENERGY
No. of sta: 3 Focal mech. F
Energy 3.3±1.8*10**14 Nm
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN

13d 11h

L.P.B.: 19S. 40C
Centroid Location:
Origin Time 11:54:41.7 0.6
Lot 3.10S 0.05 Lon 84.25E 0.05
Dep 15.0 FIX Half-duration 3.0
Moment Tensor; Scale 10**17 Nm
Mrr= 2.17 0.14 Mtt=-3.59 0.11
Mff= 1.42 0.18 Mrt=-3.39 0.40
Mrf= 3.75 0.28 Mtf=-1.24 0.13
Principal Axes:
T Val= 6.67 Plg=47 Azm=242
N -1.48 30 113
P -5.20 27 6
Best Double Couple:Mo=5.9*10**17
NP1:Strike= 48 Dip=33 Slip= 22
NP2: 300 78 121

KOD		14.86	332	eP	58	07.00	-2.0
GBA		17.88	337	Pc	58	47.60	0.4
		1.2s	341.60nm			5.4mb	
IPM		18.06	66	ePd	58	50.00	0.5
		1.1s	41.80nm			4.5mb	X
SNG		18.90	58	eP	58	51.80	-8.0X
KGM		19.38	76	eP	59	10.50	4.8X
HYB		21.07	344	iPd	59	24.60	1.0
		1.2s	685.70nm			5.9mb	
POO		23.79	334	iPc	59	53.50	2.9X
		1.1s	541.77nm			6.0mb	
CHTO		25.83	33	eP	00	13.92	3.9X
HKC		38.28	48	eP	01	51.00	-8.1X
MBL		38.80	121	eP	02	04.00	0.4
				e	04	06.00	
PGP		39.62	65	eP	02	20.00	9.6X
MEKA		40.17	129	eP	02	16.10	1.2
BAG		40.44	60	eP	02	25.90	8.5X
				eS	08	22.00	
MAP		41.39	71	eP	02	35.00	10.0X
MUN		41.47	138	eP	02	26.00	0.5
DAV		42.12	76	eP	02	38.00	7.0X
KLB		42.30	136	eP	02	32.50	0.2
LZH		42.79	23	(P)	02	45.00	8.6X
		2.0s	196.00nm			5.5mb	
	Z	22s	3.65um			5.2Msz	
	N	19s	2.58um				
				pP	02	50.50	18kmX
				PP	04	19.00	
				eS	08	50.00	
				eSS	11	47.00	
MAIO		45.50	331	iPc	03	08.60	10.4X
KMSA		45.61	302	iPc	03	00.20	0.9
ABHA		46.25	299	iPc	03	08.70	4.1X
NPA		46.25	252	iPc	03	09.00	4.7X
		1.0s	150.00nm			6.0mb	
WARB		46.50	124	iPd	03	07.00	0.8
WMO		46.62	3	eP	03	08.57	1.6
				eS	09	50.84	
				eS	09	53.76	
				i	09	55.25	
NAI		47.75	271	iPc	03	18.00	1.4
		2.0s	323.53nm			6.1mb	
PAF		47.85	193	eP	03	32.00	15.6X
				eS	10	04.00	
				eSS	14	08.00	
SSE		48.58	43	eP	03	15.00	-7.4X
	Z	18s	2.70um			5.3Msz	
	N	14s	1.10um				
	E	14s	1.10um				
				S	10	20.00	
				PS	10	32.00	
				sS	10	40.00	
				SS	13	16.00	
KER		51.14	320	eP	03	51.00	8.9X
WRA		51.39	113	P	03	44.00	-0.2
		1.0s	18.90nm			5.0mb	
CRZF		51.84	208	eP	03	57.00	10.0X
				eS	11	09.00	
ASPA		51.91	118	eP	03	47.40	-0.6
		1.0s	20.30nm			5.0mb	
	Z	23s	5.60um			5.5MszX	
				ipP	04	38.60	233kmX
				iPcP	05	16.30	
				eS	10	50.80	
TAB		53.99	323	eP	04	03.00	-0.3
				e	04	13.00	
				e	04	19.00	
KRI		55.68	252	iPc	04	14.30	-1.7
				iPP	06	20.10	

LWI		55.71	269	iPc	04	17.30	0.8
MZZ		55.79	259	iPd	04	18.00	1.1
				i	04	27.00	
QIS		56.36	113	eP	04	20.00	-0.7
				i	04	29.00	
LSZ		56.84	254	iP	04	24.60	0.2
				i	04	36.00	
BADA		56.91	307	iPc	04	26.00	1.5
BFT		56.98	241	iPd	04	24.00	-1.4
		1.5s	330.00nm			6.1mb	
BUL		57.13	248	iPc	04	22.50	-3.9X
EVA		58.02	241	iP	04	33.00	0.3
		1.3s	252.00nm			6.1mb	
JVI		58.13	311	eP	04	34.00	0.9
SLR		58.54	242	iPc	04	35.06	-1.2
ADI		58.75	312	eP	04	37.00	-0.4
BHL		58.82	313	P	04	38.00	0.0
				S	12	42.00	
KMZ		58.93	256	iPc	04	39.50	0.4
				i	04	53.30	
				i	05	27.00	
ADE		59.38	129	eP	04	41.50	-0.3
SEK		59.72	239	iPc	04	44.00	-0.4
		1.2s	290.00nm			6.3mb	
KSR		59.79	242	iPc	04	43.00	-1.9
		1.3s	210.00nm			6.1mb	
HLW		60.38	307	eP+	04	48.00	-0.6
				eS	13	00.00	
CSS		61.01	313	eP	04	53.00	0.1
BLF		61.13	238	iPc	04	53.00	-1.0
		1.5s	248.00nm			6.1mb	
HVD		62.08	237	iPc	05	03.50	3.1X
KVT		62.17	320	iP	05	00.10	-0.6
PMG		62.49	99	eP	05	03.08	-0.1
BFD		63.03	131	e(P)	05	15.00	8.6X
MAJO		63.47	46	eP	05	27.67	18.4X
				eS	13	38.77	
				eSKS	15	04.30	
MAT		63.47	46	(P)	05	07.00	-2.3
		2.0s	88.24nm			5.6mb	
	Z	20s	1.42um			5.1Msz	
				(S)	13	42.00	
BBTK		63.70	318	iPc	05	10.00	-0.9
BCK		64.11	314	eP	05	10.00	-3.6X
CMS		64.11	124	eP	05	13.00	-0.6
ELL		64.29	313	iP	05	14.30	-0.5
ALT		65.15	316	iP	05	18.90	-1.4
KHL		65.24	315	iP	05	19.60	-1.3
ARG		65.38	312	eP	05	21.60	-0.1
TOO		65.39	130	e(P)	05	22.00	0.1
KAP		65.83	311	eP	05	24.50	-0.1
IZI		66.16	317	eP	05	26.00	-0.8
HRT		66.25	317	iP	05	26.10	-1.1
MAW		66.27	189	eP	05	27.50	0.7
		0.8s	25.00nm			5.5mb	
YLV		66.33	317	iP	05	26.60	-1.3
BCAO		66.38	276	iPc	05	29.00	0.4
		1.0s	225.00nm			6.3mb	
				id	05	40.80	
				ic	05	49.40	
DST		66.43	316	eP	05	27.10	-1.3
ISK		66.77	317	eP	05	28.60	-1.9
ITU		66.82	317	iPd	05	30.00	-0.8
IZM		66.89	314	eP	05	31.30	-0.1
NPS		66.90	310	iPd	05	31.50	0.0
SMG		66.92	313	iPd	05	31.80	0.3
BNT		67.24	316	eP	05	31.60	-2.0
EDC		67.27	316	eP	05	33.00	-0.8
APE		67.63	312	eP	05	35.10	-1.0
CER		67.83	235	iPc	05	36.00	-1.4
		1.5s	140.00nm			5.9mb	
TUH		67.93	235	iPc	05	38.00	-0.1
		1.5s	120.00nm			5.9mb	
PRK		67.94	315	iPd	05	38.00	0.1
VAM		68.03	310	iPc	05	38.20	-0.4
WIN		68.09	247	iPc	05	40.00	0.5
		1.5s	150.00nm			6.0mb	
EZN		68.13	315	eP	05	37.00	-2.1
COO		69.04	122	eP	05	45.00	-0.1
				e	06	01.00	
JMB		69.04	318	iPc	05	44.00	-0.7
RDO		69.21	316	iPd	05	45.00	-0.8
CFR		69.22	321	eP	05	45.00	-0.7
VLI		69.44	311	eP	05	45.00	-2.3
KDZ		69.50	317	eP	05	46.00	-1.6
DIM		69.58	317	iP	05	48.00	0.0
RZN		69.99	316	iPc	05	50.00	-0.8

NEO		70.15	314	eP	05	50.00	-1.6
PLD		70.17	317	eP	05	50.00	-1.6
PVL		70.19	318	iPc	05	50.00	-1.7
ITM		70.36	311	iPc	05	51.60	-1.3
VRI		70.42	321	ePc	05	57.50	4.4X
IAS		70.50	323	eP	05	50.00	-3.5X
MMB		70.64	316	ePc	05	53.00	-1.6
PGB		70.71	317	eP	05	56.00	1.0
EVR		71.04	313	eP	05	55.60	-1.5
VAY		71.35	315	iP	05	57.00	-1.8
		1.5s	131.00nm			5.8mb	
SKO		72.37	316	ePc	06	02.70	-2.2
		1.5s	90.00nm			5.6mb	
	Z	20s	2.17um			5.4Msz	
	N	20s	1.91um				
	E	20s	2.13um				
				i	16	26.00	
				i	23	50.00	
				LR	37	37.00	
OHR		72.52	315	eP	06	04.00	-1.9
		1.5s	98.00nm			5.7mb	
KEK		72.77	313	iPd	06	07.20	-0.1
DEV		72.85	320	ePc	06	18.00	10.3X
BEO		74.06	318	iP	06	13.50	-1.2
VSG		74.88	99	P	06	20.00	-0.1
SVO		74.98	99	P	06	20.00	-0.6
HNR		75.11	99	eP	06	23.00	1.6
TDS		75.30	312	Pc	06	24.90	2.9
ORI		75.34	313	Pc	06	25.10	2.9
PSZ		75.53	321	eP	06	22.30	-0.9
SPC		75.78	322	eP	06	23.80	-1.0
KRA		76.29	323	iPd	06	27.20	-0.1
		1.5s	182.00nm			5.9mb	
	Z	22s	1.90um			5.4Msz	
				e	06	35.00	
SRO		76.49	321	iP	06	28.20	-0.3
MCT		76.81	310	P	06	21.90	-8.9X
ZAG		77.36	318	iPc	06	32.80	-0.6
ZST		77.38	321	eP	06	32.20	-1.3
PTJ		77.40	318	iPc	06	32.80	-1.0
SDI		77.71	314	P	06	36.70	1.2
ERC		77.71	310	P	06	38.00	2.4
VBY		77.75	318	ePc	06	30.00	-5.6X
VKA		77.90	321	iPc	06	35.90	-0.5
		6.0s	1075.00nm			6.1mb	X
				i	06	52.50	
				i	07	22.50	
AZI		78.05	314	P	06	39.30	2.0
AQU		78.17	314	P	06	40.30	2.3
NUR		78.25	334	eP	06	37.50	-0.5
KAF		78.33	336	eP	06	37.80	-0.6
		0.9s	85.60nm			5.8mb	
LJU		78.40	318	e(P)	06	29.50	-9.6X
RDP		78.51	313	P	06	42.00	2.0
RMP		78.54	314	P	06	41.70	1.7
KSP		78.75	323	iPc	06	41.70	0.7
		1.4s	271.00nm			6.1mb	
				i	06	58.10	
ARV		78.79	315	P	06	43.50	2.1
VOY		78.82	318	e(P)	06	35.00	-6.6X
ASS		78.88	315	P	06	43.10	1.1
RSM		79.25	316	P	06	46.50	2.7X
PRU		79.54	322	Pc	06	45.50	0.2
		1.7s	92.20nm			5.5mb	
	Z	18s	1.10um			5.2Msz	
				e	07	03.50	
				e	07	39.50	
KHC		79.89	321	iPc	06	47.10	-0.2
		1.3s	96.50nm			5.6mb	
	Z	22s	1.10um			5.2Msz	
				e	07	06.30	
FIR		80.05	315	eP	06	47.00	-1.1
BRG		80.17	323	iPc	06	49.10	0.5
		1.8s	380.00nm			6.1mb	
				e	07	08.00	
BDI		80.58	315	P	06	52.10	1.0
CLL		80.86	323	iPc	06	52.70	0.4
		1.6s	250.00nm			6.0mb	
				i	07	11.80	
SOD		80.89	341	iPd	06	52.20	0.1
BSD		80.91	327	iPd	06	54.20	1.8
		1.2s	106.00nm			5.7mb	
SQTA		80.92	319	iPc	06	52.20	-0.7
		1.5s	143.00nm			5.8mb	
				i	07	02.10	
				i	07	08.00	
				i	07	25.40	

```
                    e      09 55.00
                    e      10 08.50
SAL    80.99 317 P         06 56.70    3.6X
UPP    81.16 332 iPc       06 53.20   -0.4
DZM    81.38 112 iPc       07 04.00    8.3X
OSS    81.50 318 ePc       06 56.40    0.4
GRF    81.53 321 eP        06 56.60    0.8
       1.4s    252.00nm                6.1mb
                    e      07 15.50
                    e      07 58.30
VDL    81.90 318 ePc       06 57.90   -0.2
KEV    82.01 343 eP        06 55.00   -2.9X
                    e      17 12.00
SAX    82.16 318 ePc       06 59.80    0.3
LLS    82.31 318 ePc       07 00.00   -0.2
COP    82.43 327 eP        07 01.00    0.7
       1.2s    131.25nm                5.9mb
                    i      07 19.70
ORO    82.74 317 P         07 03.40    1.1
MMK    82.83 317 ePc       07 03.10    0.1
SLE    82.83 319 ePc       07 02.80    0.1
ZLA    82.84 318 ePc       07 03.00    0.2
HFS    83.11 332 eP        07 03.20   -0.6
       1.4s    239.10nm                6.2mb
     Z  18s      2.53um                5.6Msz
                    LR     42 52.00
FEL    83.17 319 P         07 04.52   -0.1
DIX    83.22 317 ePc       07 05.70    0.7
TNS    83.39 321 ePc       07 06.80    1.2
BBS    83.42 318 P         07 05.95    0.2
EMS    83.54 317 ePc       07 06.90    0.3
LPG    83.56 316 iPc       07 06.10   -0.7
       1.4s     87.15nm                5.8mb
LPL    83.57 316 iPc       07 06.20   -0.6
       1.3s     74.00nm                5.7mb
GWF    83.66 320 P         07 07.50    0.6
RSL    83.68 316 P         07 06.89   -0.4
WLS    83.72 319 P         07 07.43    0.2
MOF    83.75 319 P         07 07.25   -0.2
CDF    83.77 319 P         07 07.41   -0.1
ECH    83.80 319 P         07 07.84    0.2
LOMF   83.86 318 P         07 08.07    0.1
BSF    83.97 319 P         07 08.33   -0.3
HAU    84.30 319 iPc       07 10.00   -0.1
       1.4s    165.55nm                6.1mb
     Z  20s      1.73um                5.4Msz
BNS    84.34 322 iPc       07 11.30    1.1
       1.5s    291.00nm                6.3mb
MUD    84.40 327 iPc       07 11.60    1.2
       1.2s     30.00nm                5.4mb
NB2    84.55 332 P         07 09.00   -2.2
       1.4s     94.40nm                5.8mb
VITF   84.58 319 P         07 11.75    0.3
WTS    84.77 323 iPc       07 13.60    1.3
       1.1s     82.00nm                5.9mb
                    e      07 32.00
WIT    85.02 323 eP        07 16.00    2.5
SSB    85.05 316 P         07 14.42    0.4
ENN    85.08 321 eP        07 14.50    0.6
       1.2s    103.00nm                5.9mb
                    e      07 24.00
                    e      07 33.50
                    e      10 44.00
LBF    85.71 317 iPc       07 17.20    0.0
       1.4s    148.10nm                6.0mb
SMF    85.75 317 iPc       07 17.20   -0.2
       1.4s    117.65nm                5.9mb
PLDF   85.80 316 P         07 18.40    0.6
LOR    85.83 318 iPc       07 17.80    0.0
       1.3s    197.45nm                6.1mb
     Z  21s      1.98um                5.5Msz
LBL    85.95 316 P         07 19.50    1.1
SSF    86.04 317 iPc       07 19.00    0.2
AVF    86.10 317 eP        07 19.10    0.0
       1.5s    135.80nm                5.9mb
PYM    86.19 316 P         07 20.45    0.7
BGF    86.41 317 iPc       07 21.10    0.4
MAF    86.56 316 iPc       07 21.70    0.3
       1.4s     69.70nm                5.7mb
CAF    86.74 315 iPc       07 23.00    0.6
TCF    86.81 316 eP        07 23.10    0.4
       1.5s     88.80nm                5.8mb
SPA    87.09 180 iPc       07 24.90    1.1
       1.0s     15.00nm                5.2mb
RJF    87.17 315 iPc       07 25.40    1.0
       1.4s    182.95nm                6.1mb
     Z  22s      1.40um                5.3Msz

LSF    87.28 316 iPc       07 25.20    0.3
       1.4s    137.25nm                6.0mb
LPO    87.33 315 eP        07 26.00    0.8
       1.5s    177.60nm                6.1mb
LFF    87.67 315 eP        07 27.80    1.0
       1.6s    230.10nm                6.2mb
BTH    88.16 313 P         07 29.00   -0.2
                   ePP     11 04.00
ECHE   88.40 310 eP        07 32.40    1.9
MFF    88.47 317 iPc       07 30.90    0.3
       1.4s    187.35nm                6.2mb
LDF    88.66 319 iPc       07 31.80    0.4
       1.3s    137.20nm                6.1mb
FLN    88.91 319 iPc       07 32.80    0.2
       1.3s    104.70nm                6.0mb
     Z  20s      1.20um                5.3Msz
GRR    89.12 318 iPc       07 34.10    0.4
       1.2s     95.20nm                5.9mb
LPF    89.21 318 iPc       07 34.60    0.5
       1.4s    196.05nm                6.2mb
ETOR   89.33 311 eP        07 36.30    1.3
EVIA   89.52 309 eP        07 37.30    1.4
KIC    89.63 276 P         07 37.40    0.6
LIC    89.91 276 Pc        07 38.50    0.4
     Z  20s      0.70um                5.1Msz
TIC    89.92 277 P         07 38.60    0.5
AFC    90.25 307 eP        07 39.50    0.1
ECOG   90.27 307 eP        07 39.50    0.1
EBAN   90.49 308 eP        07 40.80    0.5
GUD    90.91 310 eP        07 43.80    1.4
EKA    91.09 325 P         07 45.00    2.4
       1.1s     47.50nm                5.7mb
BST    91.25 318 P         07 45.02    1.5
EPRU   91.58 307 eP        07 46.00    0.6
EHOR   91.63 308 eP        07 46.00    0.5
LIJA   91.72 307 eP        07 46.50    0.4
EJIF   91.75 306 eP        07 47.00    0.9
OJEN   91.79 306 eP        07 49.00    2.6
PLAT   91.97 306 eP        07 49.00    1.8
EPLA   92.36 310 eP        07 50.40    1.5
EVAL   92.81 307 eP        07 51.70    0.8
DAG    95.88 347 iPc       08 04.40    0.1
       0.8s      9.70nm                5.3mb
INK   109.84  14 ePKP      13 08.00   -1.2
YKA   118.88  10 ePKP      13 36.50    9.9X
       1.1s      4.80nm
SCH   123.27 341 ePKP      13 35.00   -0.3
                   pP      13 51.00
FFC   128.09   5 ePKPd     13 44.20   -0.4
       1.2s     39.00nm
PNT   129.39  20 ePKP      13 48.00    0.7
       1.3s     50.00nm
PPD   130.26 238 ePKP      13 46.50   -3.2X
SES   130.89  13 ePKP      13 49.00   -1.1
NEW   131.14  19 ePKP      13 50.00   -0.7
LRM   134.76  17 ePKP      13 59.50    1.6
WDC   135.24  30 ePKP      13 57.30   -1.3
CMB   138.26  30 ePKP      13 57.40   -7.1X
BW06  138.37  16 ePKP      14 01.00   -3.8X
TNP   139.73  27 ePKP      14 03.00   -4.4X
ISA   141.06  30 ePKP      14 01.00   -8.7X
CLC   141.38  29 ePKP      14 04.00   -6.2X
SBB   142.16  31 ePKP      14 06.00   -5.6X
GSC   142.18  29 ePKP      14 07.00   -4.7X
GLD   142.28  12 ePKP      14 12.00    0.1
GOL   142.30  13 ePKP      14 08.00   -4.0X
MWC   142.40  31 ePKP      14 08.00   -4.2X
PV09  142.45  18 ePKP      14 09.00   -3.4X
PEC   143.12  31 ePKP      14 10.00   -3.3X
PLM   143.70  31 ePKP      14 11.00   -3.5X
CRM   143.99 291 ePKP      14 12.00   -3.1X
MVM   144.03 291 ePKP      14 12.90   -2.3
BIM   144.20 291 ePKP      14 13.50   -2.0
FDF   144.22 291 ePKP      14 13.56   -2.0
BAR   144.32  32 ePKP      14 14.00   -1.3
PAG   144.33 294 ePKP      14 13.00   -2.8X
SLB   144.35 290 ePKP      14 14.13   -1.7
SVV   144.64 289 ePKP      14 14.93   -1.3
CCH   144.75 234 PKP       14 15.80   -1.0
FVM   144.81 353 ePKP      14 14.20   -1.8
GLA   144.96  29 ePKP      14 16.00   -0.4
TBH   145.08 284 ePKP      14 18.53    1.5
TRN   145.38 284 ePKP      14 19.00    1.5
TCE   145.71 285 ePKP      14 19.74    1.6
RSCP  146.23 345 ePKP      14 18.70    0.2
ANMO  146.54  17 ePKPc     14 19.42    0.2
ALQ   146.54  17 ePKP      14 19.00   -0.2

     Z  18s      1.20um                5.7Msz
ZOBO  146.95 234 ePKPc     14 20.23   -0.6
                    ec     14 21.89
                    ed     14 24.54
TUL   147.18   1 ePKP      14 17.90   -2.0
       1.0s    170.40nm
     Z  18s      0.51um                5.4Msz
                    i      14 20.60
                    e      14 37.60
                    e      14 43.80
                    LR     11 04.50
PORP  148.02 300 PKP       14 21.00   -0.7
MEO   148.17   5 iPKPd     14 21.80    0.2
ARE   149.49 230 ePKP      14 30.00    5.5X
     S.D. = 1.1  on 226 of 276 obs.
-------------------------------------------
?  JAN  13, 1991  12h 00m 36.26± 0.89s
   37.168 N ± 7.4km   29.977 E ± 9.5km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
     MD 3.6 (ISK).

ELL    0.42 187 iPg        00 44.80   -0.1
                    iSg    00 52.80
BCK    0.57  59 ePn        00 48.00    0.1
KHL    1.21 343 ePn        00 58.60   -0.2
YER    1.35 269 iPn        01 01.40    0.2
     S.D. = 0.3  on   4 of   4 obs.
-------------------------------------------
%  JAN  13, 1991  13h 01m 34.28± 0.61s
   42.049 N ± 5.8km   13.611 E ± 5.6km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                       (381)

AZI    0.14 245 P          01 36.80   -0.8
                    eSg    01 38.90
AQU    0.34 333 P          01 40.60   -0.8
                    eSg    01 46.90
SDI    0.38 156 P          01 41.80   -0.2
                    eSg    01 48.00
RMP    0.72 251 P          01 48.60    0.2
                    eSg    01 57.30
RDP    0.73 247 P          01 49.40    0.8
                    eSn    01 58.20
DUI    0.74 121 P          01 49.40    0.5
                    eSg    02 00.50
MNS    0.77 296 P          01 49.50    0.2
                    eSg    02 00.50
ASS    1.24 326 P          01 57.90    0.6
                    eSn    02 13.70
TDS    3.16 138 P          02 24.60   -0.4
     S.D. = 0.7  on   9 of   9 obs.
-------------------------------------------
*  JAN  13, 1991  13h 11m 06.63± 0.35s
   59.005 S ± 9.4km   25.372 W ±12.6km
   DEPTH =  33.0km  (normol)
   4.9mb (  4 obs.) 4.7Msz (  1 obs.)
 SOUTH SANDWICH ISLANDS REGION       (153)

SPA    31.17 180 iPc       17 25.20    0.8
       1.0s     15.00nm                4.8mb
     Z  20s      1.80um                4.7Msz
PPD    41.33 322 eP        18 49.70   -0.9
                    e      19 04.70
VNDA   43.66 182 iPc       19 10.30    1.3
PDCR   47.52 342 eP        19 40.30   -0.1
SIV    50.32 313 P         20 01.30   -0.7
SOB1   51.07 340 iPd       20 09.60    1.9
CNCB   52.36 305 P         20 19.00    0.9
LPB    52.65 305 (P)       20 21.00    0.9
ZOBO   52.90 305 P         20 21.00   -1.1
LIC    67.03  22 P         21 58.76    0.5
KIC    67.22  22 P         21 59.56    0.0
       0.8s      7.50nm                4.9mb
TIC    67.44  22 P         22 01.24    0.3
BCAO   72.18  47 iPc       22 31.60    1.7
       0.3s     10.00nm                5.3mb
ASPA   95.87 161 eP        24 30.20   -0.8
       1.1s      5.80nm                4.9mb
HFS   122.66  22 ePKP      29 57.20   -1.6
       0.4s      0.90nm
NB2   123.04  20 PKP       29 59.00   -0.6
       0.9s      3.30nm
DMN   123.72  92 PKP       30 01.80   -0.5
GKN   123.80  91 PKP       30 01.60   -0.7
PKI   123.85  92 PKP       30 02.60   -0.1
KKN   123.96  92 PKP       30 01.80   -0.9
```

13d 13h

GUN	124.36	92	PKP	30	03.20	-0.5
NUR	125.38	28	ePKP	30	04.00	-0.1
FRB	126.76	338	ePKP	30	06.00	-0.7
KAF	127.18	28	ePKP	30	07.00	-0.6
SOD	131.74	24	ePKP	30	16.00	-0.1
KEV	133.80	22	ePKP	30	20.00	0.1
YKA	138.99	315	ePKP	30	24.10	-5.8X
	0.7s		8.20nm			
MBC	147.08	334	ePKP	30	45.50	2.0
	0.6s		11.00nm			
INK	148.68	317	ePKP	30	46.00	-0.2
BJI	149.25	111	ePKP	30	52.00	4.0X
FBA	153.16	307	PKP	30	59.90	6.9X
	S.D. = 1.0		on 28 of 31 obs.			

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* JAN 13, 1991 13h 27m 38.23± 0.73s
23.911 S ± 6.7km 66.647 W ±11.5km
DEPTH = 209.4 ± 9.9 km
4.2mb (2 obs.)
JUJUY PROVINCE, ARGENTINA (128)

CYA	4.58	171	ePc	28	49.50	1.3
CCH	6.51	4	P	29	14.80	1.5
RTRS	6.72	201	e(P)	29	17.00	1.4
CNCB	7.17	350	iPc	29	23.80	1.7
			S	30	44.00	
LPB	7.47	349	P	29	26.00	0.1
			S	30	49.00	
RTLL	7.56	192	ePc	29	21.30	-5.5X
ZOBO	7.73	349	Pc	29	29.30	-0.2
			S	30	55.00	
RTCV	8.09	191	e(P)	29	31.10	-2.6
ARE	8.69	328	eP	29	39.00	-2.7
			iS	31	12.50	
SIV	9.46	35	Pc	29	50.50	-0.9
PPD	14.25	85	eP	30	56.10	4.0X
NNA	15.31	319	eP	31	04.50	-0.7
	0.7s		4.79nm		4.0mb	
VAO	18.08	91	eP	31	36.00	-0.9
			i	31	39.50	
			e	31	57.40	
BAO	19.38	68	eP	31	50.40	0.1
KIC	67.42	72	P	38	12.80	-0.7
TNP	77.81	321	P	39	15.20	1.2
YKA	94.15	340	eP	40	34.00	0.4
	0.6s		1.60nm		4.3mb	
ASPA	128.67	204	ePKP	46	23.00	0.5
	0.5s		5.60nm			
WRA	131.85	207	PKP	46	29.00	0.4
	0.5s		2.60nm			
GBA	144.57	100	PKP	46	51.90	0.0
HYB	146.86	95	ePKP	46	59.00	3.3X
	S.D. = 1.4		on 18 of 21 obs.			

% JAN 13, 1991 14h 09m 48.10± 1.11s
42.053 N ± 7.6km 13.590 E ±10.2km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

AZI	0.13	241	Pc	09	51.20	0.0
			eSg	09	52.70	
AQU	0.33	335	P	09	55.10	0.1
			eSg	09	59.40	
SDI	0.39	154	P	09	56.00	0.0
			eSg	10	01.90	
RMP	0.70	250	P	10	02.20	0.2
			eSg	10	12.20	
RDP	0.72	246	P	10	12.80	10.6X
MNS	0.75	296	P	10	02.60	-0.3
			eSg	10	13.10	
	S.D. = 0.2		on 5 of 6 obs.			

? JAN 13, 1991 14h 17m 31.94± 0.97s
39.131 N ± 7.8km 27.570 E ±13.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.4 (ISK).

IZM	0.77	198	ePg	17	47.00	0.0
			eSg	17	58.00	
DST	0.95	60	ePn	17	50.10	0.1
BNT	1.25	12	ePn	17	55.00	-0.2
KGT	1.33	351	iPn	17	56.70	0.2
	S.D. = 0.3		on 4 of 4 obs.			

? JAN 13, 1991 14h 32m 15.18± 1.07s
37.029 N ± 9.8km 29.722 E ±12.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ELL	0.32	152	iPg	32	21.80	0.0
YER	1.16	276	iPn	32	37.40	0.6
KHL	1.30	353	iPn	32	39.70	0.4
IZM	2.38	306	ePn	32	54.00	-0.9
	S.D. = 1.1		on 4 of 4 obs.			

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* JAN 13, 1991 15h 03m 46.87± 0.67s
17.892 S ±10.1km 178.526 W ±13.2km
DEPTH = 550.0km (geophysicist)
5.1mb (10 obs.)
FIJI ISLANDS REGION (181)

DZM	14.73	251	iPc	06	55.10	1.7
PUZ	20.30	187	eP	07	47.00	0.2
WLZ	20.53	193	eP	07	51.40	2.5
NOZ	20.87	188	eP	07	52.90	1.0
PGZ	23.09	190	eP	08	09.90	-2.1
MTW	23.75	191	eP	08	16.70	-1.3
BLW	23.96	191	eP	08	19.30	-0.6
MRW	23.98	193	eP	08	19.30	-0.7
TCW	24.05	193	eP	08	20.60	-0.1
THZ	24.90	195	eP	08	28.10	-0.2
KHZ	25.36	194	P	08	31.70	-0.6
	0.4s		23.00nm		5.2mb	
LTZ	26.02	196	P	08	37.30	-0.8
MQZ	26.79	194	eP	08	44.30	-0.5
MHZ	28.95	198	P	09	02.90	-0.8
COO	29.69	239	iPd	09	10.20	0.0
	0.4s		26.00nm		5.2mb	
CNB	33.35	232	iPc	09	42.90	1.8
	0.8s		72.00nm		5.4mb	
CMS	34.94	240	iPd	09	55.10	0.8
	0.9s		39.00nm		5.0mb	
TOO	37.09	231	iPd	10	14.00	2.0
	0.7s		52.00nm		5.3mb	
BFD	39.16	233	eP	10	32.00	3.2X
ADE	41.55	237	iPd	10	48.70	0.6
WRA	44.52	260	P	11	10.00	-1.6
	0.5s		12.40nm		4.7mb	
ASPA	44.69	254	iPd	11	11.90	-0.9
	0.7s		124.80nm		5.6mb	
			eS	16	59.20	
FORR	49.88	245	iPd	11	50.40	-1.5
	0.4s		34.00nm		5.2mb	
MBL	57.88	256	iPd	12	47.20	-1.4
	0.3s		13.00nm		4.7mb	
SPA	72.22	180	iPd	14	19.90	2.2
	0.9s		9.09nm		4.3mb	
TNP	80.02	45	P	15	01.80	1.1
PNT	84.78	34	eP	15	25.00	0.9
FBA	85.82	13	P	15	27.80	-0.9
YKA	94.36	25	eP	16	07.50	-0.8
	1.0s		1.10nm		4.0mb X	
FLN	149.17	3	ePKP	22	33.90	4.5X
	0.6s		4.50nm			
CDF	149.19	352	ePKP	22	34.30	4.7X
LDF	149.35	2	ePKP	22	34.20	4.5X
GRR	149.52	3	ePKP	22	34.80	4.8X
HAU	149.70	354	ePKP	22	35.40	5.1X
BSF	149.82	353	ePKP	22	35.60	5.0X
LPF	149.87	3	ePKP	22	35.70	5.2X
LOR	150.64	357	ePKP	22	37.60	5.8X
	0.3s		1.90nm			
SSF	150.86	357	ePKP	22	38.30	6.2X
	0.3s		1.90nm			
LBF	150.91	356	ePKP	22	38.30	6.1X
	S.D. = 1.3		on 28 of 39 obs.			

? JAN 13, 1991 15h 22m 24.23± 9.45s
4.178 N ±37.8km 77.543 W ±72.3km
DEPTH = 60.0km (geophysicist)
NEAR WEST COAST OF COLOMBIA (102)

ANCC	0.94	134	iPc	22	40.49	-1.2
			eS	22	56.20	
CLMC	1.02	107	ePc	22	43.17	0.3
			eS	23	00.90	
HOQC	1.15	128	eP	22	44.19	-0.5
			eS	23	02.70	
BUGC	1.31	102	ePc	22	47.44	0.6
			eS	23	08.40	
HOBC	1.41	83	eP	22	47.92	-0.3
			eS	23	09.20	
SALC	1.47	145	eP	22	48.45	-0.5
DIAC	1.61	123	eP	22	50.80	-0.1
SILC	1.91	141	eP	22	56.10	0.8
PURC	2.19	147	eP	23	00.11	0.8
			eS	23	30.80	
	S.D. = 0.8		on 9 of 9 obs.			

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* JAN 13, 1991 16h 57m 12.57± 1.07s
0.091 S ± 9.5km 123.406 E ±13.8km
DEPTH = 153.8 ± 14.3 km
4.6mb (3 obs.)
MINAHASSA PENINSULA (265)

MNI	2.09	43	eP	57	49.50	0.1
			eS	58	24.00	
TRT	13.13	235	ePd	00	14.00	-0.5
WRA	22.45	152	P	02	11.00	11.5X
	0.5s		3.80nm			
ASPA	25.55	157	eP	02	27.40	-1.6
	0.4s		7.10nm		4.6mb	
Z	19s		0.10um		3.4Msz	
			i	03	05.00	
WARB	26.13	173	eP	02	36.00	1.8
BDT	29.57	307	eP	03	05.80	0.7
CHG	30.49	309	eP	03	13.80	0.5
GUN	45.48	311	P	05	18.08	-0.6
PKI	45.67	310	P	05	19.76	-0.4
	0.4s		4.00nm		4.4mb	
KKN	45.88	310	P	05	21.36	-0.3
DMN	45.92	310	P	05	21.86	-0.2
	0.8s		20.00nm		4.8mb	
GKN	46.47	310	P	05	25.96	-0.3
HYB	47.44	294	eP	05	34.50	0.6
	S.D. = 1.0		on 12 of 13 obs.			

JAN 13, 1991 17h 22m 01.79± 0.54s
65.738 N ±11.6km 37.463 W ± 6.0km
DEPTH = 10.0km (geophysicist)
4.8mb (12 obs.)
EASTERN GREENLAND (636)

GDH	7.09	307	iPc	23	48.00	0.0
	0.6s		53.33nm		5.9mb X	
			i	25	06.00	
			i	25	44.00	
DAG	12.50	20	iPd	25	00.00	-2.2
	0.7s		10.27nm		5.2mb	
FRB	13.34	276	P	25	12.00	-1.5
	0.4s		2.00nm		4.5mb	
SCH	17.99	247	eP	26	13.00	-0.2
NB2	21.83	79	P	26	56.60	0.9
	0.8s		2.20nm		3.6mb X	
APO	23.21	79	eP	27	10.00	0.7
	0.7s		3.40nm		4.0mb	
MBC	26.09	327	ePc	27	38.50	1.9
	0.7s		23.00nm		5.0mb	
YKA	31.87	301	eP	28	27.40	-1.2
	0.9s		3.70nm		4.3mb	
FFC	32.34	282	eP	28	34.00	1.2
	0.7s		5.00nm		4.6mb	
INK	33.99	319	ePd	28	46.20	-0.7
FBA	40.32	322	eP	29	42.10	1.8
IMA	40.80	326	eP	29	45.80	1.4
TTA	44.00	325	eP	30	14.10	3.7X
SVW	45.47	323	eP	30	25.10	2.9X
WMQ	62.87	42	P	32	30.30	0.5
GTA	70.08	34	P	33	15.20	-0.5
	1.0s		10.00nm		4.9mb	
			pP	33	19.80	15kmX
BCAO	72.52	120	ePc	33	30.00	-0.5
	0.6s		3.00nm		4.6mb	
LZH	74.17	32	eP	33	39.50	-0.5
	1.5s		23.00nm		5.0mb	
GKN	76.63	50	P	33	53.84	-0.4
	1.0s		17.00nm		5.1mb	
KKN	77.04	50	P	33	56.54	0.0
GUN	77.11	49	P	33	57.38	0.3
	1.0s		36.00nm		5.4mb	
DMN	77.15	50	P	33	57.38	0.2
	0.9s		21.00nm		5.2mb	
PKI	77.28	50	P	33	57.74	-0.3
CD2	79.13	33	P	34	08.00	0.3
GYA	84.07	32	P	34	34.20	0.5
CHTO	89.52	41	P	34	59.90	-0.4
WRA	133.91	11	PKP	41	19.00	-1.3
	0.4s		1.20nm			
ASPA	137.57	12	ePKP	41	21.30	-5.9X
	1.6s		5.70nm			

S.D. = 1.1 on 25 of 28 obs.

? JAN 13, 1991 17h 36m 19.17± 3.74s
4.214 N ±22.7km 76.869 W ±27.4km
DEPTH = 33.0km (normal)
COLOMBIA (103)
MD 2.6 (UVC).

CLMC	0.45	137	iPd	36 29.92	0.7
BUGC	0.69	118	eP	36 31.80	-0.8
ANCC	0.69	180	ePc	36 32.57	0.0
HOBC	0.74	79	ePc	36 33.51	0.2
			eS	36 43.20	
HOOC	0.78	162	iPc	36 33.59	-0.3
			eS	36 43.30	
DIAC	1.14	144	eP	36 39.15	0.2

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

JAN 13, 1991 17h 38m 29.66± 0.42s
18.234 S ± 7.9km 178.031 W ± 4.8km
DEPTH = 590.8 ± 4.9 km
5.0mb (26 obs.)
FIJI ISLANDS REGION (181)
MD 4.7 (SVA).

KRO	2.62	290	ePc	39 50.90	4.4X
NDE	3.02	303	ePc	39 48.60	-0.1
OVA	3.08	280	eP	39 49.30	0.3
SVA	3.34	271	eP	39 51.60	1.1
			eS	41 00.00	
MBU	3.34	292	iPd	39 51.10	0.5
VUN	3.34	273	eP	39 51.00	0.4
PVC	13.00	270	iPc	41 19.50	1.2
DZM	15.07	253	iPc	41 39.50	0.9
THZ	24.70	196	eP	43 06.50	-0.9
KHZ	25.15	195	eP	43 10.00	-1.3
AFR	26.89	93	iP	43 26.20	-0.5
	0.8s	45.00nm		5.2mb	
PAE	27.06	93	iP	43 27.70	-0.5
	0.8s	15.00nm		4.7mb	
PPT	27.08	93	iP	43 27.90	-0.4
	0.8s	40.00nm		5.1mb	
TBI	27.17	106	iP	43 30.10	1.1
	0.9s	60.00nm		5.2mb	
PPN	27.22	93	iP	43 29.00	-0.5
	0.8s	15.00nm		4.7mb	
TVO	27.36	94	iP	43 31.10	0.2
	0.8s	30.00nm		5.0mb	
PMO	29.04	88	iP	43 45.10	-0.2
	0.8s	35.00nm		5.0mb	
VAH	29.25	89	iP	43 46.20	-0.9
	0.8s	30.00nm		5.0mb	
TPT	29.30	88	iP	43 47.30	-0.3
	0.8s	30.00nm		5.0mb	
RUV	29.49	89	iP	43 48.30	-0.9
	0.8s	45.00nm		5.2mb	
COO	29.92	240	iPd	43 52.70	-0.2
CNB	33.52	233	iPc	44 24.60	1.5
	0.4s	33.00nm		5.3mb	
PMG	34.87	280	eP	44 34.00	-0.4
CMS	35.18	241	iPd	44 37.90	1.1
	0.8s	22.00nm		4.8mb	
TOO	37.25	231	iPc	44 55.00	1.3
BFD	39.33	233	eP	45 14.00	3.4X
WRA	44.92	260	P	45 53.00	-1.9
	0.6s	32.30nm		5.0mb	
ASPA	45.05	255	iPd	45 54.70	-1.1
	0.9s	122.10nm		5.4mb	
			iPcP	47 23.10	
			iS	51 50.50	
FORR	50.16	245	iPd	46 33.30	-0.7
	0.4s	60.00nm		5.5mb	
WARB	51.51	251	iPd	46 43.00	-1.0
	0.5s	25.00nm		4.9mb	
COOL	56.14	245	eP	47 14.50	-2.0
MBL	58.25	256	eP	47 29.00	-2.0
	0.3s	10.00nm		4.5mb	
MEKA	58.73	250	eP	47 32.00	-2.1
KLB	59.00	244	eP	47 34.40	-1.4
NWAO	59.38	242	eP	47 36.50	-1.8
BAL	59.97	245	eP	47 41.00	-1.2
VNDA	60.15	185	iPc	47 44.50	1.8
MUN	60.30	243	eP	47 43.70	-0.7
TRT	68.05	269	ePc	48 30.50	-2.9
MAT	68.38	323	iPd	48 32.80	-2.1
	1.8s	90.91nm		5.0mb	
SPA	71.88	180	iPd	48 56.90	1.7
	1.0s	20.00nm		4.6mb	
PRS	76.21	44	eP	49 20.30	0.7
SSE	76.22	310	P	49 18.60	-1.2
FRI	77.69	44	ePc	49 27.50	0.0
CMB	77.83	43	eP	49 28.30	-0.1
WDC	77.96	40	eP	49 29.30	0.4
ORV	78.00	41	eP	49 29.20	0.0
NJZ	78.42	309	Pd	49 31.50	0.0
MDJ	78.66	325	Pd	49 32.00	-0.5
TNP	79.94	44	P	49 39.80	0.2
CN2	80.50	322	Pd	49 41.40	-0.6
			epP	51 49.00	604kmX
WHN	81.09	306	eP	49 47.00	1.7
TIA	81.73	312	eP	49 48.20	-0.3
IPM	82.85	277	ePd	49 55.40	0.8
	0.8s	62.50nm		5.2mb	
BJI	84.27	315	eP	50 01.00	0.0
	1.5s	47.00nm		4.9mb	
GYA	85.51	300	P	50 07.80	0.3
TIY	85.75	312	Pd	50 09.50	1.2
ALQ	86.02	51	eP	50 09.70	-0.1
	1.0s	7.50nm		4.4mb	
FBA	86.05	12	P	50 07.20	-1.9
HHC	87.76	314	eP	50 18.00	0.2
KMI	88.30	297	Pd	50 22.00	1.2
GOL	88.82	47	P	50 23.00	0.1
BDT	88.88	288	eP	50 24.00	0.8
CHG	89.45	290	iPd	50 26.80	0.9
	1.0s	22.50nm		5.1mb	
CD2	89.55	303	P	50 27.00	0.8
LZH	91.37	308	eP	50 34.50	-0.1
	1.5s	42.00nm		5.2mb	
INK	92.10	15	ePd	50 35.30	-1.7
YKA	94.48	25	eP	50 46.20	-1.8
	0.8s	2.60nm		4.5mb	
GTA	95.52	310	eP	50 53.00	-0.4
	1.0s	10.00nm		5.0mb	
QUE	120.24	295	ePKP	56 16.40	0.0
KAF	132.97	345	iPKP	56 38.00	-1.5
	0.5s	7.20nm			
NUR	134.76	344	iPKP	56 41.80	-1.1
	0.7s	16.00nm			
NB2	136.74	353	PKP	56 38.30	-8.5X
	0.8s	3.80nm			
HFS	137.31	351	ePKP	56 36.00	-11.8X
	0.9s	7.70nm			
KRA	145.13	340	iPKPd	57 01.50	-0.3
WIT	145.30	355	ePKP	57 03.00	1.1
ECP	145.50	9	ePKP	57 02.80	0.5
	0.9s	112.00nm			
KSP	145.52	344	ePKP	57 02.00	-0.4
	1.1s	101.00nm			
			id	57 03.50	
			e	59 16.50	
VRI	145.64	329	ePKPd	57 04.50	1.7
SPC	145.77	339	ePKP	57 03.00	-0.1
BBTK	145.80	315	iPKPd	57 03.00	-0.4
CLL	145.86	348	iPKP	57 02.10	-0.8
	1.2s	110.00nm			
			i	57 03.90	
BRG	146.06	346	ePKP	57 03.00	-0.3
	1.2s	17.00nm			
			i	57 05.00	
			i	57 12.00	
WTS	146.10	355	iPKPd	57 05.00	1.7
	0.9s	68.00nm			
CSTJ	146.10	299	PKPd	57 05.77	1.7
HRI	146.27	303	iPKPd	57 06.40	2.1
MDSJ	146.32	300	PKPd	57 06.50	2.1
JARJ	146.41	301	PKPd	57 06.39	1.8
SHMJ	146.42	302	PKPd	57 08.44	4.0X
GHZJ	146.52	298	PKPc	57 03.90	-0.9
BURJ	146.52	301	PKP	57 07.21	2.4
SALJ	146.69	301	PKPd	57 07.26	2.3
KFNJ	146.73	301	PKPd	57 07.55	2.6
MASJ	146.73	300	PKPd	57 07.33	2.3
PRU	146.75	345	ePKP	57 04.30	-0.1
			i	57 06.90	
			e	57 10.00	
LISJ	147.06	300	PKPd	57 08.37	3.0X
ENN	147.39	355	ePKP	57 08.50	3.1X
	0.8s	30.00nm			
SRO	147.61	339	iPKP	57 09.10	3.2X
IZI	147.66	319	ePKP	57 08.00	1.7
ZST	147.67	341	iPKP	57 09.90	4.0X
			e	59 24.30	
GRF	147.75	349	ePKP	57 06.30	0.2
			id	57 09.50	
KHC	147.78	346	ePKP	57 06.40	0.2
	1.0s	21.00nm			
			i	57 09.80	
			e	57 14.00	
VKA	147.85	342	ePKP	57 03.50	-2.8
	1.0s	74.60nm			
			i	57 10.20	
JMB	148.05	324	iPKPd	57 11.00	4.3X
ABH	148.11	353	ePKP	57 11.05	4.4X
PVL	148.22	327	iPKPd	57 10.00	3.1X
KCT	148.41	320	ePKP	57 10.00	2.6
FUR	149.20	348	iPKPc	57 13.50	5.2X
	0.7s	57.00nm			
KDZ	149.24	324	ePKP	57 12.00	3.4X
BEO	149.31	334	iPKP	57 13.00	4.4X
FLN	149.48	3	ePKP	57 08.60	-0.1
	1.0s	14.00nm			
RZN	149.60	325	iPKPd	57 14.00	4.6X
LDF	149.67	3	ePKP	57 09.00	0.0
KBA	149.75	344	iPKPd	57 08.80	-0.6
	0.8s	26.30nm			
			i	57 13.90	
			i	57 22.70	
VTS	149.75	328	iPKPd	57 16.00	6.5X
GRR	149.83	4	ePKP	57 09.50	0.3
WATA	149.92	347	iPKPc	57 08.90	-0.7
	0.7s	25.40nm			
			i	57 14.40	
PTJ	150.07	340	e(PKP)	57 09.60	-0.2
HAU	150.09	354	ePKP	57 09.60	-0.1
SQTA	150.11	347	iPKPc	57 09.30	-0.6
	0.8s	39.80nm			
			i	57 15.30	
			i	57 23.00	
			i	57 30.00	
IZM	150.18	318	ePKP	57 15.00	4.8X
LPF	150.18	4	ePKP	57 10.00	0.3
MMB	150.20	326	iPKPd	57 15.00	4.9X
BSF	150.22	353	ePKP	57 09.80	-0.2
LJU	150.38	342	e(PKP)	57 15.00	4.8X
OGA	150.48	347	ePKP	57 10.60	0.0
			i	57 16.90	
VOY	150.57	343	ePKP	57 15.80	5.2X
VBY	150.64	341	iPKPd	57 16.70	6.1X
LOR	151.00	357	ePKP	57 10.00	-1.1
VAY	151.00	327	iPKP	57 16.80	5.6X
SKO	151.09	329	iPKP	57 17.50	6.1X
SSF	151.22	358	ePKP	57 10.80	-0.6
	0.8s	4.05nm			
MFF	151.66	3	ePKP	57 12.10	0.1
BGF	151.75	359	ePKP	57 11.50	-0.6
	0.8s	5.35nm			
TCF	152.02	360	ePKP	57 12.80	0.2
	1.0s	12.00nm			
OHR	152.06	329	ePKP	57 12.00	-0.8
	0.8s	66.00nm			
			i	57 19.30	
LSF	152.06	1	ePKP	57 12.40	-0.2
	0.9s	9.85nm			
RJF	153.01	1	ePKP	57 14.30	0.3
	0.9s	9.85nm			
BCAO	158.77	232	iPKPc	57 23.40	1.2
	0.7s	14.00nm			
			ic	58 04.00	
LIC	166.25	149	PKP	57 28.90	-0.3
KIC	166.51	150	PKP	57 29.18	-0.3
TIC	166.62	149	PKP	57 29.26	-0.3

S.D. = 1.2 on 118 of 142 obs.

% JAN 13, 1991 17h 48m 31.45± 1.02s
38.873 N ±10.3km 27.776 E ±15.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

IZM	0.62	220	ePg	48 44.00	0.0
			eSg	48 53.90	
DST	0.99	42	iPn	48 50.10	-0.1
KCT	1.45	18	ePn	48 58.00	0.3
EDC	1.47	3	ePn	48 58.00	0.0
BNT	1.49	4	ePn	48 58.00	-0.2
KGT	1.62	347	iPn	49 00.10	0.0

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

% JAN 13, 1991 19h 26m 17.77± 0.96s
42.670 N ± 5.9km 13.084 E ±11.3km

13d 19h

DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

MNS	0.41	226	P	26 26.70	0.5
			eSg	26 34.30	
ASS	0.51	322	P	26 28.30	0.2
			eSg	26 36.70	
ARV	0.83	353	P	26 33.60	-0.3
			eSg	26 46.50	
RDP	0.95	197	P	26 35.00	-0.9
			eSg	26 52.00	
SDI	1.11	150	P	26 39.10	0.5
			eSg	26 54.30	

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

& JAN 13, 1991 19h 43m 05.07s
62.646 N 149.490 W
DEPTH = 67.1km
CENTRAL ALASKA (1)
<AEIC>.

HUR	0.34	349	iP	43 16.33	-0.1
			eS	43 24.91	
CUT	0.44	237	iP	43 17.15	0.0
RND	0.82	21	eP	43 21.16	-0.3
GHO	0.92	163	eP	43 22.25	-0.5
			eS	43 35.55	
PWA	1.02	191	eP	43 23.65	-0.2
			eS	43 39.09	
PLRM	1.07	171	eP	43 24.24	-0.3
SKT	1.16	236	iP	43 25.82	0.0
			eS	43 41.79	
SUA	1.33	207	eP	43 28.37	0.3
KNK	1.33	158	iP	43 28.08	0.0
			iS	43 46.51	
PMS	1.41	181	eP	43 29.53	0.4
			eS	43 48.15	
NCG	1.77	226	eP	43 34.35	0.2
CGLM	1.79	223	eP	43 34.58	0.1
SDG	1.83	92	eP	43 35.24	0.3
PAX	1.88	78	eP	43 35.70	0.1
			eS	43 59.29	
SPU	1.91	221	eP	43 36.07	0.1
BGL	1.95	226	eP	43 37.35	0.7
CKL	1.98	224	eP	43 37.38	0.3
TZL	1.99	106	eP	43 37.37	0.3
DDM	2.00	54	eP	43 38.75	1.4
KLU	2.04	123	eP	43 36.90	-1.0
MDA	2.10	32	eP	43 37.69	-1.0
GLI	2.11	146	eP	43 37.47	-1.3
VZW	2.12	138	eP	43 37.65	-1.2
VLZ	2.13	134	eP	43 36.86	-2.2
CCB	2.14	20	eP	43 38.23	-1.0
SLKM	2.17	190	eP	43 40.60	0.9
FBA	2.39	18	eP	43 41.65	-0.9
MDM	2.39	13	eP	43 41.88	-0.8
KNIM	2.45	159	eP	43 42.34	-1.2
RDN	2.65	218	eP	43 47.06	0.6
REF	2.65	217	eP	43 47.46	0.9
NCT	2.66	220	eP	43 46.51	0.0
GLB	2.94	112	eP	43 49.06	-1.3
INE	3.11	215	eP	43 53.99	1.0
TGL	3.70	118	eP	44 01.53	0.5
BALM	3.75	112	eP	43 59.48	-2.4

36 obs. ossocioted

JAN 13, 1991 19h 44m 52.06± 0.54s
37.104 N ± 5.0km 29.440 E ± 5.5km
DEPTH = 5.0km (geophysicist)
TURKEY (366)
MD 3.9 (ATH), 3.8 (ISK).

ELL	0.52	133	iPg	45 01.30	-1.1
			eSg	45 09.30	
YER	0.93	272	iPn	45 07.80	-2.4
BCK	0.98	68	iPn	45 10.50	-0.7
KSL	0.99	173	eP	45 10.60	-0.7
CIN	1.19	295	ePg	45 13.00	-1.6
			iSg	45 31.00	
KHL	1.22	3	iPn	45 15.30	0.0
ARG	1.38	230	eP	45 19.00	1.1
			eS	45 40.00	
ALT	2.02	15	ePn	45 28.10	0.9
IZM	2.16	307	ePn	45 28.50	-0.7
SMG	2.16	287	eP	45 29.60	0.5
KAP	2.40	230	eP	45 34.00	1.4
DST	2.58	346	ePn	45 34.10	-1.1
IZI	3.23	0	ePh	45 46.00	1.6
YLV	3.46	359	ePh	45 48.00	0.3
EDC	3.46	340	ePh	45 48.00	0.3
NPS	3.60	240	eP	45 51.70	2.0
KGT	3.74	334	iPh	45 51.50	-0.1
8BTK	3.78	43	eP	45 53.00	0.7

S.D. = 1.3 on 18 of 18 obs.

? JAN 13, 1991 20h 18m 21.38± 3.75s
4.946 N ±38.0km 76.216 W ±31.1km
DEPTH = 110.0km (geophysicist)
COLOMBIA (103)
MD 3.5 (UVC).

HOBC	0.59	172	iPc	18 39.02	-0.3
			eS	18 50.50	
BUGC	1.05	182	eP	18 44.08	0.6
CLMC	1.11	198	eP	18 44.76	0.5
			eS	19 00.40	
HOQC	1.53	196	ePc	18 49.40	0.2
			eS	19 08.60	
ANCC	1.56	205	eP	18 48.66	-0.7
DIAC	1.64	179	eP	18 50.01	-0.5
SALC	2.02	194	eP	18 55.49	0.2
			eS	19 19.10	
SILC	2.25	183	eP	18 58.45	0.0

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

? JAN 13, 1991 20h 40m 42.32± 3.88s
61.885 N ±17.1km 3.949 E ±32.8km
DEPTH = 10.0km (geophysicist)
NORWEGIAN SEA (642)
MD 2.2 (BER).

FOO	0.60	118	iPg	41 00.07	5.7X
			eSg	41 06.03	
SUE	0.92	155	eP	41 01.43	1.6
			eSg	41 13.00	
HYA	1.29	123	eP	41 05.80	-0.4
			eSg	41 21.58	
MOL	1.82	66	eP	41 14.21	0.3
			eSg	41 36.62	
ODD1	2.37	145	eP	41 20.92	-1.0
KMY	2.76	166	eP	41 26.84	-0.5
			eS	41 55.16	
NRA0	3.84	104	Pn	41 39.30	-3.4X
			Pg	41 47.90	
			Lg	42 40.90	

S.D. = 1.4 on 5 of 7 obs.

? JAN 13, 1991 20h 40m 54.84± 1.25s
36.976 N ±11.8km 29.428 E ± 9.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.1 (ISK).

ELL	0.45	120	iPg	41 03.80	-0.2
			iSg	41 11.30	
BCK	1.05	62	iPn	41 15.00	0.4
CIN	1.24	301	eP	41 18.00	0.2
KHL	1.35	3	ePn	41 19.30	-0.4

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

JAN 13, 1991 20h 46m 43.34± 0.29s
1.875 S ± 5.4km 136.908 E ± 6.6km
DEPTH = 33.0km (normal)
5.1mb (11 obs.)
WEST IRIAN REGION (196)

AAI	8.89	258	eP	48 54.00	1.5
MTN	12.31	207	eP	49 38.00	-1.3
	0.3s	80.00nm			6.3mb X
PMG	12.64	127	eP	49 41.00	-2.7
KNA	15.95	210	eP	50 26.00	-1.1
QIS	18.75	172	eP	51 00.00	-2.1
			e	54 18.00	
ASPA	21.86	187	eP	51 34.20	-1.0
	0.6s	57.20nm			5.2mb
	Z 20s	0.50um			3.9MszX
			eS	55 30.40	
HNR	24.11	109	P	51 53.00	-4.2X
TRT	24.86	256	ePc	52 03.90	-0.6
MBL	25.39	220	eP	52 10.00	0.6
WARB	26.11	201	eP	52 17.40	1.2
ADE	32.97	177	eP	53 18 50	1.2
CNB	35.23	162	iPd	53 38.00	1.1
BFD	35.51	172	iPd	53 42.60	3.5X
	0.9s	53.00nm			5.5mb
SSE	36.04	337	eP	53 45.50	1.8
TOO	36.39	168	eP	53 48.00	1.4
IPM	36.42	280	ePd	53 47.90	0.7
CHG	42.61	301	eP	54 38.50	0.0
XAN	44.37	326	P	54 51.50	-1.1
BJI	45.83	338	eP	55 08.00	4.0X
	Z 16s	0.29um			4.3MszX
CN2	46.62	349	eP	55 15.00	4.8X
LZH	48.74	324	eP	55 27.00	-0.2
	1.5s	20.00nm			4.9mb
	Z 20s	0.24um			4.2Msz
			pP	55 32.00	17kmX
GTA	53.34	324	eP	56 01.00	-0.9
	1.0s	10.00nm			4.8mb
LSA	53.79	309	Pc	56 05.90	0.1
GUN	57.24	305	P	56 29.92	-0.7
	0.8s	20.00nm			5.2mb
PKI	57.49	305	P	56 31.26	-1.2
	0.9s	12.00nm			5.0mb
KKN	57.68	305	P	56 32.90	-0.7
	1.0s	32.00nm			5.3mb
DMN	57.76	304	P	56 33.80	-0.4
	1.0s	45.00nm			5.5mb
GKN	58.29	305	P	56 37.26	-0.5
	1.0s	57.00nm			5.6mb
KOD	60.37	283	eP	56 53.00	0.5
HYB	60.60	291	eP	56 53.00	-0.7
GBA	60.92	287	P	56 55.30	-0.5
WMO	63.25	322	P	57 10.10	-1.0
POO	65.20	291	iPd	57 23.80	-0.4
QUE	73.72	302	eP	58 17.10	0.6
VNDA	76.77	175	P	58 33.50	0.7
SVW	80.93	27	eP	58 56.10	0.3
MAIO	80.98	307	eP	59 03.00	6.4X
TTA	81.42	25	eP	58 58.50	0.2
IMA	83.47	23	eP	59 09.00	0.0
	1.1s	7.00nm			4.7mb
PMR	84.06	28	eP	59 10.80	-1.0
FBA	85.48	24	eP	59 18.00	-0.9
YKA	100.13	27	ePdiff	00 25.10	-1.8
	0.8s	0.60nm			4.2mb
CUMC	145.22	91	ePKP	06 21.10	0.0
ANCC	146.23	87	ePKP	06 21.94	-0.2
SALC	146.41	87	ePKP	06 23.39	0.8
HOQC	146.46	87	ePKP	06 23.33	0.5
CLMC	146.51	86	ePKP	06 24.20	1.4
ARE	146.56	124	ePKP	06 28.00	5.1X
PURC	146.75	89	ePKPc	06 25.61	2.0
SILC	146.77	88	ePKP	06 24.90	1.4
DIAC	146.90	87	ePKP	06 24.41	1.0
HOBC	146.92	85	ePKP	06 23.80	0.4
CNCB	149.21	128	PKP	06 30.00	2.6X
			i	06 34.00	
LPB	149.27	127	PKP	06 33.00	5.7X
ZOBO	149.40	127	PKP	06 29.00	1.3
	1.1s	26.10nm			
CCH	150.29	131	PKP	06 36.50	7.8X

S.D. = 1.1 on 47 of 56 obs.

& JAN 13, 1991 21h 18m 24.90s
63.181 N 151.824 W
DEPTH = 9.1km
CENTRAL ALASKA (1)
<AEIC>.

TRF	0.74	68	iP	18 38.61	-1.1
			eS	18 50.20	
HUR	1.02	101	eP	18 44.23	0.0
			eS	18 58.83	
CUT	1.06	137	iP	18 45.73	0.8
			eS	19 00.49	
SKT	1.21	173	eP	18 47.39	-0.2
			iS	19 04.29	
RND	1.36	79	eP	18 49.57	-0.5
MCK	1.41	66	eP	18 49.93	-0.8
8WN	1.45	46	eP	18 50.10	-1.1
			eS	19 11.00	
PWA	1.78	149	eP	18 57.85	1.8
NCG	1.79	185	eP	18 55.97	-0.3
SUA	1.80	163	eP	18 58.04	1.7
CGLM	1.88	183	eP	18 57.74	0.2
			eS	19 23.46	
TTA	1.92	264	eP	18 57.61	-0.6
BGL	1.94	188	eP	18 58.57	0.1
GHO	1.95	135	eP	18 59.53	0.9
SPU	2.01	183	eP	18 59.36	0.0

PLRM 2.03 141 eP 18 59.08 -0.5
PMS 2.21 150 eP 19 02.76 0.4
CCB 2.31 49 eP 18 59.90 -3.7
KNK 2.37 137 eP 19 05.90 1.3
MDM 2.38 40 eP 19 00.83 -3.9
HDA 2.49 58 eP 19 05.28 -0.9
RDN 2.71 190 eP 19 09.11 -0.5
SDG 2.95 100 eP 19 14.39 1.6
KLU 3.23 119 eP 19 17.47 0.6
24 obs. ossociated

? JAN 13, 1991 21h 51m 54.74± 0.84s
41.790 N ±27.5km 81.286 E ±34.7km
DEPTH = 33.0km (normol)
4.3mb (3 obs.)
SOUTHERN XINJIANG, CHINA (321)

GKN 14.02 168 P 55 00.00 -13.4X
CHTO 27.40 141 P 57 39.00 -0.2
HFS 44.16 318 eP 00 01.70 0.1
0.5s 1.60nm 4.1mb
NB2 45.25 320 P 00 10.30 -0.1
0.7s 2.90nm 4.3mb
MBC 61.50 6 eP 02 10.00 -0.1
WRA 78.60 130 P 03 55.00 0.3
0.7s 2.80nm 4.4mb
S.D. = 0.3 on 5 of 6 obs.

• JAN 13, 1991 22h 06m 54.75± 0.54s
11.498 N ±10.5km 86.623 W ±15.0km
DEPTH = 33.0km (normol)
4.6mb (11 obs.) 4.0Msz (1 obs.)
NEAR COAST OF NICARAGUA (74)

RSCP 24.01 2 P 12 09.80 2.2
MEO 25.61 337 iPd 12 23.50 0.7
TUL 25.68 343 eP 12 22.70 -0.8
0.8s 34.60nm 5.0mb
e 12 30.80
BLA 26.20 11 P 12 30.00 1.6
0.8s 8.72nm 4.4mb
FVM 26.59 353 P 12 31.00 -0.9
0.8s 11.36nm 4.5mb
ALQ 29.49 326 ePd 12 59.00 0.6
0.9s 7.14nm 4.4mb
ANMO 29.50 326 P 12 59.20 0.8
0.7s 4.79nm 4.4mb
GOL 32.64 333 P 13 25.00 -1.1
0.7s 4.85nm 4.5mb
ZOBO 33.11 146 P 13 32.00 1.3
Z 20s 0.29um 4.0Msz
LR 24 16.00
PV09 33.56 327 P 13 34.20 0.0
CNCB 33.63 146 P 13 35.00 -0.2
RSNY 34.54 15 P 13 43.00 0.8
0.9s 21.38nm 5.1mb
PLM 35.20 313 P 13 49.80 1.6
GAC 35.39 14 eP 13 51.00 1.6
PEC 35.69 314 P 13 52.80 0.6
RSSD 35.81 338 P 13 53.00 -0.3
8W06 37.00 332 P 14 02.50 -0.8
SIV 37.22 137 P 14 04.90 -0.3
ORV 41.64 318 P 14 44.00 2.3
NEW 44.63 331 P 15 04.50 -1.4
0.8s 8.33nm 4.6mb
SCH 45.96 16 eP 15 16.00 -0.3
PNT 46.55 331 eP 15 21.00 -0.1
0.8s 10.00nm 4.8mb
EDM 46.79 338 eP 15 23.00 0.0
FRB 53.71 10 eP 16 13.00 -2.5
YKA 54.74 345 eP 16 20.70 -2.4
1.1s 5.70nm 4.5mb
INK 64.35 342 eP 17 28.00 -1.2
MBC 67.07 352 eP 17 45.50 -1.0
1.0s 7.00nm 4.7mb
WRA 139.77 253 PKP 26 21.00 -1.1
0.7s 2.40nm
GUN 140.16 10 PKP 26 21.60 -1.4
PKI 140.40 11 PKP 26 23.20 -0.2
HYB 147.75 27 ePKP 26 36.00 0.3
CHG 149.38 350 ePKP 26 39.00 0.7
LOE 150.12 344 ePKP 26 45.00 5.6X
GBA 150.47 33 PKP 26 41.00 1.1
BDT 150.91 349 ePKP 26 47.40 6.9X
KOD 153.24 37 ePKP 26 53.50 9.1X
S.D. = 1.3 on 33 of 36 obs.

% JAN 13, 1991 22h 39m 54.06± 1.16s
39.957 N ± 9.8km 23.295 E ± 6.6km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
MD 1.8 (THE).

PAIG 0.30 96 iPd 40 00.34 0.1
eS 40 04.82
LIT 0.63 283 iPd 40 06.62 -0.2
eS 40 16.70
THE 0.72 340 ePc 40 08.58 0.4
eS 40 17.10
SOH 0.86 3 ePc 40 09.94 -0.8
eS 40 22.50
SRS 1.18 11 ePc 40 16.34 0.2
eS 40 33.06
GRG 1.21 326 ePd 40 16.82 0.2
eS 40 33.30
KNT 1.24 346 iPc 40 17.17 0.1
iS 40 34.74
S.D. = 0.5 on 7 of 7 obs.

? JAN 13, 1991 23h 17m 58.71±14.53s
4.938 N ±110.km 76.811 W ±48.3km
DEPTH = 26.0 ± 8.3 km
COLOMBIA (103)
MD 3.4 (UVC).

HOBC 0.89 131 iPd 18 15.34 -0.2
eS 18 26.40
CLMC 1.08 167 iPd 18 18.92 0.6
eS 18 32.60
BUGC 1.18 152 iPd 18 19.42 -0.2
eS 18 33.50
ANCC 1.41 182 iPd 18 22.86 -0.1
HOQC 1.47 173 eP 18 23.31 -0.7
eS 18 40.30
DIAC 1.75 159 ePc 18 27.32 -0.6
eS 18 47.20
SALC 1.96 177 eP 18 30.70 -0.2
SILC 2.28 168 eP 18 35.90 0.1
eS 19 02.30
S.D. = 0.5 on 8 of 8 obs.

JAN 14, 1991 00h 24m 54.61± 0.69s
41.098 N ± 5.9km 22.459 E ± 5.5km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MD 1.8 (THE). ML 1.7 (SKO).

GRG 0.15 197 iPc 24 58.20 0.1
eS 25 01.16
VAY 0.24 20 iPg 24 59.80 0.1
iSg 25 03.20
KNT 0.34 79 iPc 25 01.78 0.2
iS 25 06.04
THE 0.60 140 ePc 25 06.00 -0.8
eS 25 14.52
SOH 0.73 112 ePd 25 08.92 -0.1
eS 25 19.04
SRS 0.86 88 ePc 25 11.12 0.0
eS 25 22.68
FNA 0.88 249 ePc 25 11.16 -0.4
eS 25 23.16
LIT 1.00 179 ePd 25 14.28 0.8
iS 25 28.08
S.D. = 0.5 on 8 of 8 obs.

JAN 14, 1991 00h 39m 57.13± 1.00s
36.217 N ± 8.4km 28.178 E ± 8.1km
DEPTH = 98.1 ± 15.9 km
DODECANESE ISLANDS (369)

ARG 0.04 268 iPd 40 10.00 -0.9
YER 0.92 5 iPn 40 23.60 6.7X
KAP 1.05 231 iPd 40 18.60 0.3
eS 40 33.00
KSL 1.14 95 eP 40 20.00 0.7
CIN 1.38 357 ePg 40 22.00 -0.2
iSg 40 36.00
ELL 1.49 69 iPn 40 24.30 0.6
NPS 2.29 246 eP 40 34.70 0.6
eS 41 02.00
BCK 2.30 57 iPn 40 34.50 0.3
KHL 2.36 27 ePn 40 34.40 -0.6
KOT 6.98 153 ePn 41 37.50 -0.9
S.D. = 0.8 on 9 of 10 obs.

% JAN 14, 1991 01h 13m 04.18± 1.15s
39.977 N ±10.6km 23.309 E ± 7.4km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
MD 1.4 (THE).

PAIG 0.29 100 ePc 13 10.28 0.1
iS 13 14.72
LIT 0.64 281 ePd 13 16.96 -0.1
eS 13 27.00
THE 0.71 338 ePd 13 17.80 -0.3
iS 13 27.04
SOH 0.84 2 ePd 13 20.00 -0.5
iS 13 32.48
GRG 1.20 325 ePd 13 26.60 0.1
eS 13 43.28
KNT 1.22 345 ePc 13 27.72 0.8
eS 13 44.68
S.D. = 0.6 on 6 of 6 obs.

JAN 14, 1991 01h 19m 56.70± 0.65s
41.065 N ± 6.2km 22.474 E ± 5.2km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MD 1.5 (THE). ML 1.5 (SKO).

GRG 0.12 207 iPc 19 59.88 0.1
eS 20 01.96
VAY 0.27 16 iPg 20 02.20 -0.1
iSg 20 05.90
KNT 0.33 73 ePc 20 03.88 0.2
eS 20 08.28
THE 0.57 139 iPc 20 08.00 -0.2
SOH 0.71 110 ePc 20 10.80 0.1
eS 20 20.68
SRS 0.85 86 ePc 20 12.96 -0.1
eS 20 24.76
FNA 0.88 252 ePc 20 13.60 0.0
S.D. = 0.2 on 7 of 7 obs.

• JAN 14, 1991 01h 22m 40.28± 0.72s
23.673 N ± 7.7km 121.377 E ±15.1km
DEPTH = 10.0km (geophysicist)
3.6mb (1 obs.)
TAIWAN (244)

TWF1 0.33 193 iPc 22 47.00 -0.1
eS 22 51.90
TWD 0.45 26 iPc 22 48.40 -1.1
eS 22 55.10
TWG 0.89 198 ePd 22 57.20 -0.2
TWK 0.91 244 eP 22 57.40 -0.4
TWC 1.03 25 ePc 22 59.30 -0.4
eS 23 13.80
ANP 1.51 5 eP 23 09.10 1.6
SSE 7.40 359 P 24 30.00 -0.8
Z 12s 0.90um
Lg 26 32.50
YKA 83.37 23 eP 35 09.90 1.3
0.7s 0.30nm 3.6mb
S.D. = 1.1 on 8 of 8 obs.

? JAN 14, 1991 01h 59m 17.64±20.83s
38.130 N ±161.km 26.380 E ±64.8km
DEPTH = 5.0km (geophysicist)
AEGEAN SEA (365)
MD 3.0 (ISK).

IZM 0.74 69 ePg 59 32.10 -0.4
eSg 59 41.10
EZN 1.69 359 ePn 59 47.60 -0.4
DST 2.29 49 ePn 59 57.00 0.3
EDC 2.50 27 ePn 00 00.00 0.5
S.D. = 0.8 on 4 of 4 obs.

JAN 14, 1991 02h 25m 30.35± 0.53s
6.518 S ±13.4km 154.919 E ± 8.8km
DEPTH = 28.1km (2 depth phoses)
5.3mb (6 obs.)
SOLOMON ISLANDS (193)

SVO 5.51 119 eP 26 54.00 1.3
eS 28 12.00
PMG 8.21 249 eP 27 31.00 0.4
ASPA 26.44 228 eP 31 04.90 -2.0
1.4s 7.50nm 4.1mb X

14d 02h

	Z 20s	0.20um				3.7Msz
		eS	35	23.50		
KMI	59.69	304 Pc	35	36.50		1.2
		pP	35	45.00		28km
CHG	60.63	296 ePc	35	42.40		0.9
	1.1s	15.19nm				5.0mb
GUN	74.81	301 P	37	11.30		0.5
	0.7s	37.00nm				5.5mb
PKI	75.12	301 P	37	12.74		0.2
KKN	75.29	301 P	37	13.68		0.3
	0.6s	18.00nm				5.2mb
DMN	75.39	301 P	37	14.44		0.4
	0.7s	35.00nm				5.5mb
GKN	75.89	301 P	37	16.94		0.2
	0.8s	29.00nm				5.4mb
HYB	79.04	289 eP	37	33.50		-0.7
GBA	79.45	285 Pd	37	36.50		0.2
	0.9s	7.10nm				4.7mb
FBA	82.70	21 P	37	51.20		-1.3
		pP	38	00.20		28km
INK	89.30	21 eP	38	24.00		-1.0
TNP	92.29	52 (P)	38	39.00		-0.7
PPD	141.71	139 e(PKP)	45	07.00		5.1X
	S.D. = 1.0	on 15 of 16 obs.				

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* JAN 14, 1991 02h 34m 35.14± 1.54s
35.451 N ±18.4km 27.451 E ± 7.3km
DEPTH = 5.0km (geophysicist)
DODECANESE ISLANDS (369)
MD 3.6 (ATH).

KAP	0.25	294 iPgc	34	39.50		-0.6
ARG	0.94	36 ePb	34	53.00		-0.5
NPS	1.51	263 ePb	35	03.00		0.1
KSL	1.86	68 ePb	35	08.00		0.1
CIN	2.21	13 eP	35	12.00		-0.9
APE	2.24	317 ePb	35	16.00		2.5
ELL	2.37	56 eP	35	16.00		0.5
VAM	2.66	270 ePb	35	23.50		4.1X
VLI	3.87	290 ePn	35	35.50		-1.1
	S.D. = 1.4	on 8 of 9 obs.				

? JAN 14, 1991 02h 49m 38.87± 1.23s
37.175 N ±17.3km 22.595 E ± 9.3km
DEPTH = 33.0km (normal)
SOUTHERN GREECE (368)
MD 2.8 (ATH).

VLI	0.53	149 ePn	49	50.00		0.0
ITM	0.53	271 ePn	49	50.00		0.0
VAM	2.19	143 ePn	50	13.60		0.0
APE	2.35	92 ePb	50	16.00		0.0
		eSn	50	40.00		
	S.D. = 0.1	on 4 of 4 obs.				

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* JAN 14, 1991 03h 18m 05.13± 0.73s
20.027 S ±10.3km 167.296 E ±15.4km
DEPTH = 29.1 ± 5.6 km
5.0mb (4 obs.)
LOYALTY ISLANDS (188)

DZM	2.18	201 iPd	18	40.00		-0.3
		iS	19	08.00		
PVC	2.47	23 iP	18	44.00		-0.3
		iS	19	15.50		
BKM	2.51	21 iPd	18	45.00		0.1
		iS	19	17.80		
ASPA	31.17	257 eP	24	27.80		3.8X
	0.6s	18.00nm				5.1mb
		i	24	38.40		
PMO	42.93	91 iP	26	03.40		0.1
	1.0s	25.00nm				4.9mb
VAH	43.12	91 iP	26	04.70		-0.2
	1.0s	15.00nm				4.7mb
RUV	43.37	91 iP	26	06.90		0.0
	1.0s	40.00nm				5.1mb
CHTO	77.32	296 P	30	04.10		4.9X
TNP	91.33	50 P	31	05.50		-4.2X
SKO	143.82	315 iPKP	37	38.40		-0.9
OHR	144.63	314 ePKP	37	40.30		-0.5
BCAO	145.86	247 iPKPd	37	45.20		1.5
	0.8s	11.00nm				
	S.D. = 0.9	on 9 of 12 obs.				

JAN 14, 1991 03h 23m 47.69± 0.55s
46.267 N ± 5.2km 7.392 E ± 6.0km
DEPTH = 10.0km (geophysicist)
SWITZERLAND (544)
ML 2.5 (LDG).

DIX	0.19	176 iPd	23	52.40		0.4
EMS	0.38	239 iPc	23	55.10		-0.4
MMK	0.45	118 eP	23	56.60		-0.4
LPL	0.88	212 Pg	24	04.80		0.0
LPG	0.89	210 Pg	24	05.00		0.0
		Sg	24	17.00		
LLS	1.26	61 eP	24	10.30		-0.9
VDL	1.46	81 eP	24	14.20		0.0
BSF	1.62	346 Pg	24	16.80		0.4
		Sg	24	36.60		
FEL	1.66	15 ePn	24	17.72		0.6
SAX	1.66	53 ePd	24	17.20		-0.1
SLE	1.68	26 ePd	24	15.40		-1.8
HAU	1.88	338 Pn	24	18.40		-1.8
		Pg	24	21.60		
		Sg	24	45.00		
OSS	1.95	77 ePd	24	22.60		1.3
CDF	2.15	358 Pg	24	26.80		2.7
		Sg	24	53.40		
SMF	2.48	280 Pg	24	32.20		3.4X
		Sg	25	04.60		
LOR	2.63	294 Pg	24	34.80		3.9X
		Sg	25	07.00		
	S.D. = 1.3	on 14 of 16 obs.				

% JAN 14, 1991 04h 15m 38.95± 0.75s
40.688 N ± 9.9km 26.124 E ±10.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

EZN	0.87	170 iPg	15	55.70		0.0
		iSg	16	05.70		
KDZ	1.10	331 iPd	15	59.00		-0.6
		iS	16	23.00		
EDC	1.37	104 ePn	16	04.50		0.4
BNT	1.41	103 ePn	16	04.20		-0.4
RZN	1.46	314 iP	16	05.00		-0.5
		e	16	23.00		
PLD	1.77	323 eP	16	11.00		1.2
		eSg	16	35.00		
	S.D. = 0.9	on 6 of 6 obs.				

% JAN 14, 1991 04h 20m 22.70± 0.82s
42.129 N ± 6.7km 13.379 E ± 8.5km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

AZI	0.15	163 Pd	20	26.50		0.4
		eSg	20	29.30		
AQU	0.23	5 P	20	27.90		0.3
		eSg	20	31.30		
SDI	0.53	142 P	20	33.00		-0.5
		eSg	20	41.10		
MNS	0.58	296 P	20	33.90		-0.5
		eSg	20	41.50		
RDP	0.62	233 P	20	35.50		0.3
		iSg	20	44.00		
	S.D. = 0.7	on 5 of 5 obs.				

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* JAN 14, 1991 04h 46m 31.89± 0.83s
35.568 N ±12.1km 26.452 E ± 6.5km
DEPTH = 33.0km (normal)
CRETE (370)
MD 3.2 (ATH).

KAP	0.59	91 iPnc	46	43.50		-0.3
		eSn	46	51.00		
NPS	0.75	246 iPnc	46	45.60		-0.4
		eSn	46	57.00		
ARG	1.51	64 ePn	46	56.50		-0.3
APE	1.67	334 ePb	46	58.60		-0.7
		eSn	47	16.50		
VAM	1.85	266 ePn	47	03.00		1.2
CIN	2.42	32 eP	47	11.00		1.1
VLI	3.07	293 ePn	47	18.60		-0.6
		eSn	47	50.00		
	S.D. = 1.0	on 7 of 7 obs.				

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* JAN 14, 1991 06h 25m 45.28± 1.93s
41.620 N ±24.5km 24.342 E ± 8.1km
DEPTH = 10.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)
MD 2.6 (THE).

SRS	0.76	229 iPd	25	59.48		-0.6
		eS	26	12.20		
SOH	1.09	223 ePd	26	06.16		0.3
		eS	26	22.52		
KNT	1.18	248 ePc	26	06.88		-0.4
		eS	26	23.96		
VAY	1.36	258 ePn	26	09.80		-0.5
ALN	1.47	119 ePd	26	11.76		-0.1
		eS	26	32.96		
GRG	1.61	246 ePc	26	15.04		1.3
		eS	26	36.80		
	S.D. = 0.9	on 6 of 6 obs.				

? JAN 14, 1991 06h 31m 02.65± 1.02s
41.867 N ± 9.9km 24.445 E ± 7.9km
DEPTH = 10.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)

RZN	0.24	120 iPgd	31	08.00		0.2
		iSg	31	12.00		
PLD	0.35	33 iPg	31	10.00		0.1
		iSg	31	16.00		
KDZ	0.74	102 iP	31	17.00		-0.2
		iS	31	34.00		
VAY	1.49	252 ePn	31	29.40		0.0
PVL	1.55	25 eP	31	26.00		-4.3X
	S.D. = 0.3	on 4 of 5 obs.				

% JAN 14, 1991 06h 32m 05.87± 0.57s
43.093 N ± 7.7km 0.657 W ± 4.2km
DEPTH = 10.0km (geophysicist)
PYRENEES (378)
MD 2.0 (STR).

ATE	0.03	258 Pg	32	07.97		0.0
		Sg	32	09.48		
ESCF	0.06	103 Pg	32	08.25		0.1
		Sg	32	09.87		
MADF	0.13	294 Pg	32	09.14		0.1
		Sg	32	11.50		
OGE	0.15	61 Pg	32	09.54		0.1
LHE	0.18	172 Pg	32	10.09		0.1
JAU	0.22	105 Pg	32	10.50		-0.2
BOH	0.26	272 Pg	32	11.26		-0.2
		Sg	32	15.18		
	S.D. = 0.1	on 7 of 7 obs.				

? JAN 14, 1991 06h 38m 58.86± 1.77s
37.961 N ±56.3km 71.844 E ±60.6km
DEPTH = 33.0km (normal)
4.2mb (5 obs.)
AFGHANISTAN-USSR BORDER REGION (717)

GKN	14.61	129 P	42	24.74		-0.4
	0.5s	17.00nm				4.8mb
KKN	15.16	128 P	42	32.42		0.0
DMN	15.18	129 P	42	33.84		1.1
	0.5s	13.00nm				4.5mb
PKI	15.39	128 P	42	34.44		-1.2
	0.7s	12.00nm				4.3mb
GUN	15.45	126 P	42	36.82		0.5
NB2	43.63	322 P	47	01.60		0.0
	0.7s	1.40nm				3.8mb
YKA	79.76	3 eP	51	04.50		0.0
	0.4s	0.20nm				3.5mb
	S.D. = 0.9	on 7 of 7 obs.				

JAN 14, 1991 06h 56m 54.62± 0.49s
42.161 N ± 4.4km 19.188 E ± 4.3km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 3.0 (TTG).

ULC	0.20	167 iPgd	56	58.37		-0.7
		iSg	57	01.40		
TTG	0.27	11 iPgd	57	00.83		0.5
		iSg	57	05.93		
BDV	0.29	295 iPgd	57	01.43		0.7
		iSg	57	07.12		
HCY	0.59	299 iPgc	57	06.25		-0.2
		iSg	57	16.72		
NKY	0.67	348 iPgc	57	08.00		0.1
		iSg	57	19.47		
PVY	0.73	53 iPgd	57	07.83		-1.1
		iSg	57	20.07		
BRY	0.88	327 iPgd	57	11.50		-0.1
		iSg	57	27.25		

IVA	0.88	36	iPgc	57	11.25	-0.4
			iSg	57	25.93	
PLE	1.18	7	iPgc	57	16.50	-0.2
			iSg	57	36.28	
OHR	1.60	130	iPn	57	22.80	-0.3
			iSg	57	46.50	
			Lg	57	49.00	
SKO	1.69	96	iPn	57	25.50	1.2
			iSn	57	47.50	
			iSg	57	49.10	
			Lg	57	50.50	
HVAR	2.26	298	iPn	57	32.40	-0.2
VAY	2.67	107	ePn	57	39.20	0.8

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

JAN 14, 1991 07h 11m 41.98± 0.40s
43.802 N ± 4.3km 11.883 E ± 3.9km
DEPTH = 21.2 ± 4.6 km
CENTRAL ITALY (381)
ML 3.6 (LDG), 3.6 (KBA). MD 3.5 (ROM).

SFI	0.12	349	Pd	11	45.00	-1.3
			iSg	11	48.30	
CRE	0.18	164	Pd	11	45.90	-1.2
			iSg	11	48.50	
FIR	0.45	267	iPgc	11	49.50	-1.7
			iSg	11	58.00	
ARV	0.83	111	P	11	58.60	1.0
			eSg	12	10.00	
ASS	0.93	142	P	12	00.00	0.7
			eSg	12	14.00	
MME	0.94	295	P	12	01.50	1.9
			eSg	12	16.40	
BDI	0.96	286	P	12	01.20	1.2
			eSg	12	16.20	
PII	0.99	266	P	12	01.90	1.6
			eSg	12	16.90	
MNS	1.53	157	P	12	08.50	0.2
			eSn	12	29.60	
AQU	1.83	142	P	12	14.60	2.0
BOB	2.00	300	P	12	17.50	2.4
			eSn	12	42.10	
SAL	2.05	332	P	12	17.50	1.8
			eSn	12	44.00	
RDP	2.13	163	P	12	18.20	1.1
AZI	2.14	147	P	12	18.40	1.3
CTI	2.25	356	P	12	20.00	1.2
			eSg	12	47.50	
TRI	2.33	34	P	12	21.70	2.0
RIY	2.36	48	ePn	12	17.80	-2.4
PGF	2.45	240	Pn	12	20.40	-1.2
			Sn	12	50.40	
MDI	2.51	323	P	12	24.00	1.7
SDI	2.53	145	P	12	23.90	1.2
CEY	2.65	42	e(Pn)	12	27.00	2.6X
			e	12	55.50	
			eSn	13	03.80	
CKI	2.67	285	Pc	12	25.10	0.5
			eSg	12	58.00	
DUI	2.86	138	P	12	28.50	1.2
FVI	2.86	12	P	12	28.80	1.5
LJU	2.93	39	ePn	12	26.60	-1.6
			eSn	13	01.70	
VBY	2.95	54	ePn	12	26.90	-1.6
			iSn	13	02.70	
			iSg	13	16.40	
VAI	3.03	314	P	12	30.00	0.4
OSS	3.14	338	ePd	12	33.90	2.5X
VDL	3.18	328	ePc	12	32.70	0.6
SBF	3.22	273	Pn	12	31.00	-1.5
			Sn	13	08.60	
SCE	3.24	358	iPnc	12	33.80	0.9
ORO	3.33	305	P	12	35.00	1.0
DOI	3.41	283	P	12	35.40	0.2
			eSn	13	15.00	
KBA	3.43	17	iPnc	12	35.00	-0.6
			iSn	13	07.50	
SOTA	3.45	352	iPnc	12	37.20	1.4
			i	12	37.80	
			i(Sn)	13	13.80	
			i	13	21.70	
WATA	3.54	357	iPnc	12	39.00	1.9
			i(Sn)	13	16.60	
PTJ	3.58	53	ePn	12	35.40	-2.2
			eSn	13	12.80	
LLS	3.68	327	ePc	12	40.70	1.5
FRF	3.81	268	Pn	12	38.80	-1.9
			Sn	13	22.40	
DIX	3.91	307	ePc	12	44.30	1.9
LMR	3.93	265	Pn	12	40.60	-1.9
BNI	3.93	290	P	12	44.00	1.3
LRG	4.02	267	Pn	12	42.40	-1.4
LPG	4.04	297	Pn	12	44.20	0.0
LPL	4.05	297	Pn	12	44.40	-0.1
EMS	4.18	305	ePc	12	48.20	1.9
BRT	4.91	125	P	12	55.00	-1.3
BSF	5.38	320	Pn	13	01.80	-1.3
			Sn	14	02.00	
KHC	5.46	12	eP	13	01.00	-3.1X
			e	14	04.00	
			e	14	20.20	
CDF	5.61	327	Pn	13	05.50	-0.9
			Sn	14	08.20	
HAU	5.71	319	Pn	13	06.40	-1.3
			Sn	14	10.40	
GRF	5.91	356	e(Pn)	13	17.00	6.5X
			e(Pg)	13	35.60	
			e	13	48.10	
			e(Sg)	14	12.40	
SRO	6.02	46	eP	13	18.80	6.8X
			e	14	16.50	
SMF	6.35	299	Pn	13	15.80	-0.9
LBF	6.41	303	Pn	13	16.00	-1.6
			Sn	14	25.50	
PRU	6.45	15	eP	13	28.50	10.4X
			e	13	41.00	
			e	14	21.50	
AVF	6.72	299	Pn	13	20.60	-1.3
MOX	6.85	359	eP	13	22.00	-1.7
BGF	6.95	296	Pn	13	23.90	-1.3
BRG	7.21	10	e(P)	13	26.00	-2.8X
			e	15	22.00	

S.D. = 1.5 on 53 of 60 obs.

JAN 14, 1991 07h 15m 34.72± 0.42s
38.669 N ± 3.7km 23.705 E ± 4.8km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 3.3 (ATH).

ATH	0.70	179	iPgd	15	46.10	-2.4
			eSg	15	56.00	
NEO	0.74	330	iPgc	15	49.00	-0.2
			eSg	16	01.70	
AGG	1.13	289	ePc	15	55.58	-0.3
			eS	16	11.74	
PAIG	1.26	359	ePc	15	57.62	-0.4
			eS	16	14.98	
EVR	1.50	280	ePg	16	02.00	0.2
OUR	1.68	7	ePd	16	03.78	-0.4
			eS	16	25.14	
LIT	1.71	327	iPc	16	04.18	-0.6
PLG	1.71	353	iPbd	16	04.30	-0.5
VLI	2.04	198	iPbd	16	10.70	1.2
THE	2.04	344	ePc	16	09.10	-0.4
			eS	16	34.38	
ITM	2.05	224	ePn	16	09.00	-0.6
PRK	2.08	73	ePb	16	14.00	3.9X
APE	2.15	137	ePn	16	11.80	0.6
SOH	2.17	353	ePc	16	11.94	0.6
KZN	2.22	318	ePn	16	11.30	-0.8
EZN	2.34	60	ePn	16	15.80	2.0
SRS	2.45	358	ePd	16	14.62	-0.7
VLS	2.50	260	ePb	16	17.70	1.7
KNT	2.57	346	iPd	16	17.14	0.1
			iS	16	47.41	
SMG	2.65	110	ePb	16	22.60	4.4X
FNA	2.77	320	ePd	16	20.22	0.2
VAY	2.79	342	ePn	16	21.00	0.8
IZM	2.80	94	ePn	16	30.00	9.5X
RDO	2.85	29	ePn	16	21.00	0.0
ALN	2.86	38	ePd	16	19.42	-1.8
VAM	3.28	173	ePn	16	27.00	-0.2
OHR	3.31	318	ePn	16	29.00	1.4
NPS	3.73	155	ePn	16	39.00	5.4X
IZI	4.76	68	ePn	16	49.00	0.7

S.D. = 1.0 on 25 of 29 obs.

& JAN 14, 1991 07h 30m 11.61s
60.546 N 151.935 W
DEPTH = 76.2km
KENAI PENINSULA, ALASKA (14)
<AEIC>.

RDT	0.23	277	iP	30	22.75	-0.6
REF	0.38	262	iP	30	23.80	-0.6
			eS	30	33.24	
NKA	0.40	60	iP	30	25.62	1.4
RDN	0.41	266	iP	30	23.83	-0.8
			eS	30	33.72	
RSO	0.41	259	eP	30	24.04	-0.7
			eS	30	34.20	
RS2	0.42	259	eP	30	24.09	-0.6
RED	0.43	253	eP	30	23.99	-0.7
			eS	30	34.11	
NCT	0.49	272	eP	30	24.28	-1.0
NNL	0.60	148	iP	30	26.41	0.3
SPU	0.64	355	eP	30	26.05	-0.6
CKL	0.68	343	iP	30	26.47	-0.7
INE	0.74	230	eP	30	26.64	-1.2
			eS	30	38.84	
BGL	0.75	343	iP	30	27.35	-0.5
			eS	30	40.53	
CGLM	0.77	357	iP	30	27.57	-0.4
			iS	30	40.21	
SLKM	0.85	92	iP	30	28.01	-0.9
			eS	30	41.25	
NCG	0.87	353	iP	30	28.61	-0.6
HOM	0.90	171	iP	30	29.31	-0.2
			eS	30	42.46	
BRLK	0.94	146	iP	30	29.17	-0.9
			eS	30	43.19	
CNPM	1.08	161	iP	30	30.93	-0.8
			eS	30	45.79	
SUA	1.09	32	iP	30	31.61	-0.3
			eS	30	47.25	
XLV	1.10	174	eP	30	30.91	-1.0
			eS	30	46.83	
OPT	1.11	216	iP	30	31.35	-0.7
			eS	30	46.51	
SEW	1.31	109	eP	30	32.89	-1.8
PMS	1.36	58	iPc	30	34.70	-0.6
PDB	1.36	237	eP	30	33.89	-1.4
AUE	1.39	212	iP	30	34.63	-1.1
AUP	1.40	213	eP	30	35.04	-0.9
AUH	1.41	213	eP	30	35.07	-1.0
			eS	30	51.96	
AUI	1.43	212	eP	30	35.42	-0.8
SKT	1.45	8	iP	30	35.63	-0.9
PWA	1.49	41	ePc	30	36.80	-0.2
PLRM	1.72	51	eP	30	38.84	-1.3
PMR	1.72	51	eP	30	38.70	-1.4
MCNL	1.83	223	eP	30	40.18	-1.4
			eS	31	01.88	
CDD	1.84	209	eP	30	40.48	-1.3
SVW	1.89	289	iPc	30	40.30	-2.2
KNK	1.91	61	iP	30	41.23	-1.5
			eS	31	03.58	
GHO	1.91	49	eP	30	41.39	-1.4
			eS	31	04.20	
SYI	1.96	187	eP	30	42.06	-1.3
CUT	2.03	22	eP	30	43.51	-0.8
KNIM	2.09	94	iP	30	42.20	-3.0
MTU	2.21	103	eP	30	44.38	-2.4
GLI	2.40	80	eP	30	46.08	-3.4
HUR	2.67	23	eP	30	52.47	-0.8
VZW	2.69	77	iP	30	50.50	-3.0
VLZ	2.81	75	eP	30	52.36	-2.7
KDC	2.82	186	iPc	30	52.50	-2.8
KLU	3.08	69	iP	30	56.37	-2.6
TTA	3.08	323	eP	30	57.20	-1.8
TOA	3.19	58	eP	30	59.20	-1.3
RND	3.22	26	eP	30	59.52	-1.4
TZL	3.48	62	eP	31	02.45	-2.1
SDG	3.65	54	eP	31	05.07	-1.8
PAX	3.92	49	eP	31	09.13	-1.6
GLB	4.06	74	eP	31	09.26	-3.4
DDM	4.32	39	eP	31	16.01	-0.3
HDA	4.51	29	eP	31	17.11	-1.8
BALM	4.73	80	eP	31	18.42	-3.6
MDM	4.75	19	eP	31	19.64	-2.6
FBA	4.77	22	eP	31	20.60	-1.9
CTGM	5.22	81	eP	31	26.22	-2.7
IMA	5.60	353	ePc	31	32.10	-2.1

62 obs. associated

JAN 14, 1991 07h 31m 09.72± 0.36s
43.790 N ± 3.9km 11.866 E ± 3.4km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)
ML 3.8 (LDG), 3.8 (KBA), 3.8

14d 07h

(ZAG). MD 3.5 (ROM).

SFI	0.13	356	P	31 11.20	-1.7
			iSg	31 13.50	
SFI	0.13	356	Pd	31 14.20	1.3
			iSg	31 17.00	
CRE	0.17	159	Pc	31 14.90	1.2
			eSg	31 16.50	
FIR	0.44	269	iPgc	31 19.00	0.3
			iSg	31 27.00	
ARV	0.83	110	P	31 25.30	-0.6
			eSg	31 38.60	
ASS	0.92	141	P	31 28.00	0.6
			eSg	31 41.70	
MME	0.93	296	P	31 30.50	2.8
			eSg	31 45.00	
BDI	0.96	287	Pc	31 30.20	2.2
			eSg	31 44.50	
PII	0.97	266	Pd	31 30.80	2.6
			eSg	31 46.50	
MNS	1.53	157	P	31 38.00	0.9
			eSg	31 58.00	
AQU	1.82	141	P	31 42.40	1.0
BOB	1.99	300	P	31 45.50	1.6
SAL	2.05	333	P	31 47.00	2.4
RDP	2.12	163	P	31 46.20	0.4
AZI	2.14	147	P	31 47.00	1.1
			eSg	32 12.50	
CTI	2.26	356	P	31 48.70	0.9
			eSn	32 17.50	
TRI	2.35	35	P	31 50.90	2.0
PGF	2.44	240	Pn	31 49.60	-0.7
			Sn	32 19.60	
PCP	2.51	289	P	31 49.32	-1.9
			S	32 20.31	
MDI	2.51	323	P	31 53.30	2.1
			eSn	32 23.00	
SDI	2.53	145	P	31 52.50	1.0
CKI	2.66	285	P	31 53.40	0.0
			eSg	32 26.00	
CEY	2.67	42	e(Pn)	31 54.50	1.0
			eSn	32 24.50	
FIN	2.67	280	P	31 51.63	-2.0
			S	32 23.64	
DUI	2.86	137	P	31 56.00	-0.3
FVI	2.88	13	P	31 57.50	1.1
IMI	2.88	274	P	31 54.86	-1.7
			S	32 27.79	
ROB	2.92	281	P	31 55.31	-1.9
			S	32 28.62	
LJU	2.94	39	ePn	31 56.00	-1.4
			e	31 57.10	
			eSn	32 31.50	
VBY	2.97	54	ePn	31 55.30	-2.4
			iSn	32 31.00	
			iSg	32 45.00	
VAI	3.03	314	P	31 59.50	1.0
OGA	3.13	349	ePn	32 00.70	0.4
OSS	3.14	338	eP	32 01.70	1.4
VDL	3.19	329	eP	32 01.80	0.8
SBF	3.21	273	Pn	32 00.00	-1.2
			Sn	32 38.60	
ENR	3.24	279	P	32 00.38	-1.3
			S	32 36.93	
SCE	3.25	358	iPnd	32 02.70	0.8
STV	3.31	279	P	32 01.15	-1.5
ORO	3.32	305	P	32 04.40	1.5
ORX	3.33	305	P	32 02.66	-0.3
DOI	3.40	284	P	32 04.30	0.3
KBA	3.45	17	iPnc	32 03.50	-1.2
			iSn	32 35.20	
SOTA	3.46	353	iPnc	32 06.80	2.0
			i	32 47.50	
			i	32 50.50	
BHB	3.47	289	P	32 05.28	0.5
			S	32 44.41	
PZZ	3.50	283	P	32 03.21	-2.2
WATA	3.55	357	iPnc	32 07.90	1.8
			iSn	32 46.10	
			i	32 50.60	
			i	32 54.00	
ZAG	3.56	54	ePn	32 03.50	-2.6
			iSn	32 44.00	
RSP	3.57	294	P	32 05.04	-1.3
MMK	3.58	311	eP	32 08.60	2.0
PTJ	3.59	53	ePn	32 04.70	-2.0
			e(Sn)	32 41.10	

LLS	3.68	328	eP	32 09.00	0.9
LSD	3.75	298	P	32 08.43	-0.7
FRF	3.79	268	Pn	32 08.00	-1.5
			Sn	32 51.60	
RRL	3.82	289	P	32 11.61	1.6
DIX	3.91	307	eP	32 12.30	1.0
LMR	3.92	265	Pn	32 09.80	-1.4
BNI	3.93	291	P	32 12.50	1.0
LRG	4.01	267	Pn	32 11.40	-1.1
LPG	4.03	297	Pn	32 13.20	0.1
LPL	4.05	297	Pn	32 13.40	0.1
EMS	4.18	305	eP	32 16.80	1.7
FEL	4.89	328	eP	32 24.39	-0.8
BSF	5.38	321	Pn	32 30.80	-1.2
			Sn	33 31.20	
CDF	5.62	327	Pn	32 34.40	-1.0
			Sn	33 37.00	
HAU	5.71	320	Pn	32 35.40	-1.2
			Sn	33 39.40	
GRF	5.92	356	e(Pn)	32 43.10	3.6X
			e(Pg)	33 04.50	
			e	33 04.80	
			e(Sg)	33 41.00	
SMF	6.35	300	Pn	32 44.80	-0.8
			Sn	33 55.60	
LBF	6.41	303	Pn	32 45.40	-1.1
			Sn	33 57.00	
AVF	6.71	300	Pn	32 49.60	-1.1
SSF	6.73	302	Pn	32 49.80	-1.2
MOX	6.86	359	ePn	32 51.00	-1.8
			ePg	33 23.00	
BGF	6.95	297	Pn	32 53.50	-0.6
BRG	7.23	11	e(P)	32 56.00	-1.9

S.D. = 1.4 on 72 of 73 obs.

% JAN 14, 1991 07h 33m 05.02± 0.75s
43.811 N ± 7.5km 12.002 E ± 6.1km
DEPTH = 5.0km (geophysicist)
CENTRAL ITALY (381)

SFI	0.15	315	Pd	33 08.00	-0.2
			iSg	33 10.30	
CRE	0.19	191	Pd	33 09.50	0.6
			eSg	33 15.30	
FIR	0.54	267	iPgc	33 15.00	-0.8
			iSg	33 22.00	
ARV	0.75	114	P	33 20.00	-0.1
			eSg	33 31.50	
ASS	0.88	147	P	33 22.80	0.3
			eSg	33 35.50	
MME	1.01	293	P	33 25.50	0.6
			eSg	33 40.50	
BDI	1.05	284	P	33 26.00	0.7
			eSg	33 42.00	
PII	1.07	266	P	33 25.30	-0.4
			eSn	33 42.50	
MNS	1.51	161	P	33 32.00	-0.8
			eSn	33 53.00	

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

JAN 14, 1991 07h 37m 04.58± 0.54s
43.743 N ± 5.5km 11.918 E ± 5.5km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)
ML 2.8 (VIE). MD 2.7 (ROM).

CRE	0.12	168	Pc	37 08.00	0.4
			eSg	37 12.70	
SFI	0.18	345	Pd	37 08.00	-0.7
			eSg	37 10.50	
FIR	0.48	274	iPgc	37 13.50	-0.8
			iSg	37 20.50	
ARV	0.78	108	P	37 18.60	-1.2
			eSg	37 30.80	
ASS	0.86	141	P	37 21.50	0.3
			eSg	37 35.50	
MME	0.99	298	P	37 24.50	1.0
			eSg	37 39.50	
BDI	1.01	289	P	37 23.00	-0.7
			eSg	37 40.00	
PII	1.01	269	P	37 24.00	0.3
			eSg	37 38.50	
MNS	1.47	157	P	37 31.50	0.4
			eSg	37 51.00	
CTI	2.31	355	P	37 42.00	-1.4
KBA	3.48	16	i(Pn)	38 01.30	1.3
			i(Sn)	38 37.20	

SOTA	3.51	352	iPnc	38 01.70	1.3
			i	38 32.60	
			iSn	38 35.30	
			i	38 46.60	

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

% JAN 14, 1991 07h 38m 03.77± 0.67s
43.789 N ± 7.5km 11.947 E ± 6.4km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

SFI	0.15	333	Pd	38 08.00	0.8
			eSg	38 10.30	
CRE	0.16	179	Pc	38 08.10	0.6
			eSg	38 11.60	
FIR	0.50	269	iPgc	38 14.00	0.1
			iSg	38 20.00	
ARV	0.78	112	P	38 18.60	-0.4
			eSg	38 31.30	
ASS	0.89	144	P	38 20.50	-0.3
			eSg	38 34.00	
MME	0.99	295	P	38 22.50	-0.2
			eSg	38 35.50	
BDI	1.01	286	P	38 22.20	-0.8
			eSg	38 36.50	
MNS	1.50	159	P	38 31.00	0.2
			eSn	38 50.00	

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

JAN 14, 1991 07h 38m 36.70± 0.24s
43.836 N ± 2.7km 11.872 E ± 1.8km
DEPTH = 21.8 ± 2.5 km
4.1mb (5 obs.)
CENTRAL ITALY (381)
MD 4.1 (LJU), 4.0 (ROM).

SFI	0.09	351	Pc	38 41.00	0.2
			iSg	38 43.30	
CRE	0.22	164	Pd	38 41.00	-1.4
			iSg	38 45.50	
FIR	0.45	263	iPgc	38 45.00	-0.9
			iSg	38 54.00	
ARV	0.85	113	P	38 52.10	-0.5
			iSg	39 05.50	
MME	0.92	293	P	38 56.80	2.8X
			iSg	39 12.00	
BDI	0.95	284	Pc	38 56.50	2.1
			iSg	39 13.00	
ASS	0.96	143	P	38 55.50	1.0
			iSg	39 10.50	
PII	0.98	264	Pd	38 58.00	3.1X
			eSg	39 12.60	
MNS	1.57	158	P	39 05.70	2.2
			eSg	39 25.70	
AQU	1.86	142	P	39 10.20	2.5X
BOB	1.97	299	P	39 13.50	4.1X
SAL	2.01	332	P	39 13.20	3.3X
			eSg	39 37.50	
RMP	2.11	163	Pc	39 12.50	1.1
			eSn	39 39.00	
RDP	2.17	163	P	39 14.90	2.7X
AZI	2.17	148	P	39 14.80	2.6X
VVI	2.18	10	P	39 15.70	3.3X
CTI	2.22	356	P	39 16.50	3.5X
			iSn	39 43.50	
TRI	2.31	35	P	39 15.90	1.8
RIY	2.35	49	iPn	39 14.10	-0.5
PGF	2.46	239	P	39 16.16	-0.3
			S	39 47.14	
MDI	2.48	322	P	39 20.40	3.9X
			eSn	39 50.00	
PCP	2.49	288	P	39 16.07	-0.8
			S	39 47.40	
SDI	2.57	145	P	39 19.00	1.1
CEY	2.63	43	ePn	39 18.80	0.0
			eSn	39 50.40	
CKI	2.65	284	P	39 20.50	1.4
			eSn	39 53.00	
FIN	2.67	279	P	39 18.16	-1.2
			S	39 49.40	
RBL	2.87	24	P	39 25.90	3.8X
IMI	2.88	273	P	39 21.30	-1.0
			S	39 53.80	
DUI	2.89	138	P	39 25.50	3.1X
LJU	2.91	40	ePn	39 21.60	-1.0
			iSn	39 58.00	
ROB	2.92	280	P	39 21.73	-1.1

			S	39	54.40					Sg	41	01.00			1.2s	15.50nm		4.2mb	
VBY	2.94	54	ePn	39	21.40	-1.6	SSB	5.43	288	P	39	57.60	-0.9	HFS	16.36	3 eP	42	30.20	3.8X
			iSn	39	57.60		ECH	5.47	325	P	39	59.33	0.3		0.5s	1.30nm		3.3mb	
			iSg	40	11.90					S	41	01.44		NB2	17.24	359 P	42	36.40	-1.1
VAI	3.00	314	P	39	27.00	3.2X	WLS	5.55	327	P	40	00.46	0.3		0.8s	5.00nm		3.7mb	
OGA	3.09	349	iPnd	39	27.40	2.0				S	41	03.12		BCAO	39.68	170 ePc	46	14.60	5.7X
SAOF	3.12	274	P	39	25.60	-0.1	CDF	5.58	327	P	40	00.49	-0.1		0.5s	3.00nm		4.3mb	
SCE	3.21	358	iPnd	39	29.20	2.2				S	41	03.91		FRB	47.80	324 eP	47	14.00	0.1
SBF	3.21	272	Pn	39	26.60	-0.4	HAU	5.68	319	Pn	40	02.00	0.1	GKN	59.21	79 P	48	38.20	-0.5
			Sn	40	56.00					Sn	41	07.20		GUN	60.15	79 P	48	44.80	-0.6
AUTN	3.22	274	P	39	27.38	0.1	ZST	5.68	38	e(Pn)	40	01.40	-0.5	YKA	65.70	336 eP	49	20.20	-1.0
			S	40	03.58			1.0s		0.09nm			2.4mb X		1.0s	4.10nm		4.5mb	
ENR	3.23	278	P	39	27.27	-0.1				e	40	09.90		CHTO	75.15	78 P	50	21.00	1.8
			S	40	01.80					e	40	25.10			S.D. = 1.0	on 107 of 135 obs.			
AURF	3.29	272	P	39	27.81	-0.3				e	40	46.20		---					
			S	40	04.75					i	40	56.10			JAN 14, 1991 07h 45m 59.14± 0.33s				
ORO	3.30	304	Pc	39	31.50	3.2X				i	41	15.40			21.524 N ± 5.7km 143.273 E ± 9.0km				
ORX	3.30	304	P	39	29.24	0.9				LR	41	47.00			DEPTH = 250.0km (geophysicist)				
STV	3.30	279	P	39	28.32	0.0	GRF	5.88	356	e(Pn)	40	00.80	-3.8X		4.4mb (7 obs.)				
TOUF	3.35	275	P	39	28.96	-0.1				e	40	36.50			MARIANA ISLANDS REGION				(215)
			S	40	10.37					e(Sn)	41	08.00							
HVAR	3.39	100	iPn	39	26.70	-2.8X				e(Sg)	41	37.50		KAKJ	14.88	350 eP	49	17.50	-1.6
DOI	3.39	283	Pc	39	31.40	1.8	GWF	5.92	332	P	40	05.41	0.1			eS	51	57.30	
			eSn	40	11.30		IVA	5.93	97	iPn	40	05.00	-0.5	CHJJ	14.95	346 P	49	22.00	2.1
KBA	3.40	17	iPnc	39	30.20	0.4				iSn	41	11.00		MTMJ	15.74	344 P	49	31.00	1.3
			iSn	40	03.00		VITF	6.00	319	P	40	06.82	0.5	NIIJ	16.09	348 P	49	34.80	1.1
			i	40	08.70		SRO	6.01	46	ePn	40	09.80	3.3X			eS	52	27.60	
MVIF	3.41	273	P	39	29.54	-0.4				i	40	14.50		SSE	21.94	300 P	50	34.00	0.8
SOTA	3.42	352	Pnc	39	32.40	2.4				i	40	27.90			1.0s	25.00nm		4.7mb	
			iSn	40	07.10					i	41	00.80		PGP	22.71	253 ePc	50	59.00	18.3X
			i	40	17.20					i	41	53.00				e	51	09.50	
BHB	3.46	289	P	39	30.47	0.0				i	42	03.40		CHTO	41.60	274 (P)	53	25.00	0.5
PZZ	3.50	283	P	39	30.31	-0.9				i	42	11.50		WRA	42.13	193 P	53	30.00	1.3
WATA	3.51	357	iPnc	39	33.90	2.6X	PVY	6.05	99	iPn	40	06.50	-0.7		0.8s	24.20nm		4.7mb	
			i	40	08.30		BUD	6.20	51	eP	40	13.00	3.8X	ASPA	45.84	192 eP	53	58.90	0.6
			i	40	17.70		PLDF	6.24	293	P	40	09.00	-0.8		0.5s	19.70nm		4.7mb	
ZAG	3.53	54	i(Pn)	39	33.00	1.5	SMF	6.33	299	Pn	40	10.50	-0.6	MBL	48.20	210 eP	54	16.00	-0.6
			iSn	40	14.20					Sn	41	21.00			0.4s	4.00nm		4.1mb	
			iSg	40	26.50		LBF	6.39	302	Pn	40	11.40	-0.5	WARB	50.09	200 eP	54	32.50	1.5
RSP	3.55	293	P	39	31.84	-0.1				Sn	41	22.80		GUN	52.13	289 P	54	46.40	-0.3
PTJ	3.56	53	iPnd	39	30.80	-1.3	PYM	6.59	290	P	40	15.80	0.9	PKI	52.58	289 P	54	49.20	-0.8
			eSn	40	14.50		AVF	6.69	299	Pn	40	15.80	-0.4	KKN	52.67	289 P	54	50.00	-0.5
CALN	3.61	270	P	39	32.68	-0.1	SSF	6.71	302	Pn	40	16.00	-0.4	GKN	53.21	289 P	54	53.60	-0.8
			S	40	15.78					Sn	41	30.80		FBA	61.79	27 P	55	53.50	0.1
LSD	3.74	297	P	39	34.73	0.1	TNS	6.80	341	ePn	40	19.60	1.8	GBA	62.88	275 Pd	55	59.90	-1.4
FRF	3.80	268	Pn	39	34.80	-0.5				eSn	41	34.70			0.9s	3.80nm		4.1mb	
			Sn	40	19.00					eSg	42	23.80		INK	67.69	24 ePd	56	30.50	-0.6
RRL	3.80	288	P	39	36.11	0.5	MOX	6.82	359	ePn	40	16.30	-1.6	KIW	68.68	155 P	56	37.40	-0.1
BNI	3.92	290	Pc	39	39.80	2.7X				iPg	40	50.00		THZ	68.69	157 P	56	38.60	1.1
			eSn	40	24.00					iSn	41	31.00		MNG	68.71	154 P	56	37.20	-0.4
LMR	3.93	265	Pn	39	36.50	-0.6	PSZ	6.93	51	eP	40	23.00	3.4X	TCW	68.73	155 P	56	38.00	0.3
			Sn	40	20.60		BGF	6.93	296	Pn	40	19.20	-0.4	MRW	68.92	155 eP	56	38.10	-0.7
LPG	4.01	296	Pn	39	39.80	1.2				Sn	41	34.80		CAW	68.96	155 P	56	39.00	-0.1
LRG	4.02	266	Pn	39	38.20	-0.2	MAF	7.01	293	Pn	40	20.40	-0.3	WDW	69.06	155 P	56	39.50	-0.2
			Sn	40	24.00		CAF	7.11	282	Pn	40	21.40	-0.7	MTW	69.17	154 P	56	40.10	-0.3
LPL	4.03	296	Pn	39	40.00	1.2	OHR	7.14	109	ePn	40	19.80	-2.7X	YKA	76.57	28 eP	57	22.80	-0.3
SGO	4.15	141	P	39	42.00	1.7	BRG	7.18	11	ePn	40	22.00	-1.0		0.5s	3.40nm		4.3mb	
TAVF	4.22	269	P	39	41.42	0.1				e	40	56.00		SES	83.16	38 eP	57	59.00	0.6
FUR	4.35	355	iPnd	39	44.70	1.6				e	41	24.00		TNP	84.11	51 P	58	03.00	-0.6
CDR	4.43	270	ePn	39	43.90	-0.3				e	41	50.00		HFS	88.92	337 eP	58	24.10	-2.1
			e(Sn)	40	27.60					e	42	33.00			0.4s	1.10nm		4.1mb	
			e	40	28.40		SKO	7.27	102	iPn	40	22.70	-1.6	ZOBO	149.87	85 PKP	05	24.00	6.7X
VILF	4.45	272	P	39	44.89	0.2		1.9s		180.00nm			5.8mb X	LPB	149.96	86 PKP	05	23.00	5.8X
PUYF	4.49	268	P	39	44.96	-0.1				i	41	15.00		CNCB	150.14	86 PKP	05	24.00	6.4X
BERF	4.52	265	P	39	45.49	-0.2				i	41	45.70				e	06	44.00	
GELF	4.70	267	P	39	47.84	-0.3	TCF	7.27	293	Pn	40	24.80	0.5		S.D. = 1.0	on 29 of 33 obs.			
TREF	4.71	270	P	39	48.40	0.2				Sn	41	44.40		---					
BBS	4.75	321	P	39	49.17	0.4	CLL	7.52	5	ePn	40	27.00	-0.7	?	JAN 14, 1991 08h 38m 31.78± 0.91s				
PRAF	4.85	272	P	39	52.61	2.4				iSn	41	48.30			44.313 N ± 9.1km 7.361 E ± 8.3km				
FEL	4.86	328	P	39	50.87	0.5	RJF	7.54	285	Pn	40	27.80	-0.3		DEPTH = 10.0km (geophysicist)				
BRT	4.93	125	P	39	52.00	0.6	KSP	7.63	22	ePn	40	26.00	-3.2X	NORTHERN ITALY					(545)
BRY	4.95	99	iPn	39	49.50	-2.3		1.3s		287.00nm			6.3mb X		ML 1.6 (GEN).				
			iSn	40	48.00					ePg	41	01.50							
LOMF	4.99	317	P	39	52.89	0.7				i	41	24.20		STV	0.07	201 P	38	34.31	0.0
HCY	5.04	104	iPn	39	50.00	-2.9X				iS	41	50.00				S	38	35.87	
			iSn	40	49.00					i	43	00.00		ENR	0.10	154 P	38	34.53	0.0
MOF	5.20	322	P	39	55.44	0.2	LSF	7.71	292	Pn	40	31.00	0.5			S	38	36.27	
BSF	5.34	320	P	39	57.37	0.1	LPO	7.72	280	Pn	40	30.00	-0.6	PZZ	0.27	316 P	38	37.48	0.0
			S	40	57.22		ENN	8.02	332	ePn	40	35.00	0.2			S	38	41.27	
TDS	5.35	140	P	39	58.50	1.3		0.9s		19.00nm			5.3mb X	ROB	0.37	93 P	38	39.35	0.0
VKA	5.40	33	iPnc	39	56.70	-1.3	VAY	8.29	104	ePn	40	38.00	-0.5			S	38	44.75	
			i	40	45.20		EPF	8.43	269	Pn	40	38.60	-2.0		S.D. = 0.0	on 4 of 4 obs.			
			iSn	40	50.30		WTS	8.84	339	e(Pn)	40	51.00	4.9X	---					
			i	40	59.60		MFF	8.92	292	Pn	40	46.80	-0.5		JAN 14, 1991 09h 03m 32.27± 0.84s				
KHC	5.43	12	iPn	39	57.30	-1.1	CMP	9.51	77	ePc	40	57.00	1.6		14.972 S ± 6.2km 167.345 E ± 7.6km				
			Pg	40	00.60		LDF	9.58	304	Pn	40	55.00	-1.3		DEPTH = 127.4 ± 7.3 km				
			Sn	40	39.50		EKA	15.04	325	P	42	17.00	7.6X		5.1mb (6 obs.)				

14d 09h

VANUATU ISLANDS (186)

BKM	2.82	162	iPd	04	17.50	0.5
			iS	04	55.00	
PVC	2.90	161	iP	04	18.50	0.3
			iS	04	56.30	
DZM	7.11	187	iPc	05	14.90	-0.3
			iS	06	33.00	
HNR	9.09	306	eP	05	41.00	-0.8
			eS	07	21.00	
SVO	9.36	307	eP	05	47.00	1.5
			eS	07	32.00	
VSG	9.38	306	eP	05	45.00	-0.7
			eS	07	24.00	
BRS	18.34	225	iPc	07	39.50	-0.2
RMQ	20.79	234	iPc	08	06.00	0.9
	0.8s	90.00nm			5.2mb	
COO	21.04	220	eP	08	08.00	0.5
OLP	24.46	238	iPc	08	40.00	-0.8
HBZ	24.54	159	P	08	41.60	0.2
PUZ	24.95	159	P	08	47.30	2.0X
NOZ	25.37	160	P	08	49.70	0.6
CMS	25.63	226	iPc	08	52.30	0.6
	0.7s	41.00nm			5.1mb	
PGZ	26.71	165	P	08	58.60	-2.8
TOO	29.70	217	iPd	09	29.10	0.8
ASPA	32.66	249	eP	09	52.50	-1.9
	0.8s	37.80nm			5.2mb	
FORR	39.22	239	iPc	10	49.80	0.1
	0.4s	43.00nm			5.6mb	
WARB	39.55	247	eP	10	52.00	-0.6
MBL	45.46	255	iPd	11	40.20	-0.2
	0.4s	11.00nm			4.9mb	
SPA	75.12	180	iPc	15	02.40	0.5
	0.8s	16.67nm			4.9mb	
FBA	86.56	18	(P)	16	01.50	-0.3
YKA	97.73	27	eP	16	50.70	-2.7
	0.3s	0.10nm			3.8mb	X
FLN	144.85	346	ePKP	22	55.40	-0.2
	0.7s	12.15nm				
LDF	144.92	345	ePKP	22	55.70	-0.1
LOR	144.99	340	ePKP	22	55.80	-0.2
	1.1s	19.55nm				
LBF	145.20	340	ePKP	22	56.40	0.0
	1.2s	32.75nm				
GRR	145.29	346	ePKP	22	56.40	0.0
	0.9s	24.55nm				
SSF	145.29	340	ePKP	22	56.80	0.4
	1.2s	62.50nm				
LPL	145.44	336	ePKP	22	57.80	0.7
	1.0s	23.00nm				
LPG	145.45	336	ePKP	22	58.10	0.9
	0.8s	12.75nm				
SMF	145.54	340	ePKP	22	57.50	0.6
	1.4s	50.10nm				
AVF	145.57	340	ePKP	22	57.80	0.9
	1.4s	30.50nm				
LPF	145.66	346	ePKP	22	57.80	0.8
	1.2s	53.55nm				
BGF	145.94	341	ePKP	22	58.50	0.9
	0.8s	12.10nm				
MAF	146.33	341	ePKP	23	00.00	1.8X
TCF	146.38	341	ePKP	23	00.10	1.8X
	1.0s	11.00nm				
LSF	146.62	342	ePKP	23	00.50	1.8X
	1.4s	65.35nm				
MFF	146.77	344	ePKP	23	00.90	2.0X
	1.5s	62.70nm				
RJF	147.48	341	ePKP	23	03.40	3.3X
BCAO	147.57	254	iPKPc	23	04.00	2.8X
	0.2s	40.00nm				
			id	23	33.10	

S.D. = 1.0 on 34 of 41 obs.

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* JAN 14, 1991 09h 12m 40.08± 0.78s
30.374 N ±17.1km 70.132 E ±11.3km
DEPTH = 33.0km (normal)
4.4mb (9 obs.)
PAKISTAN (710)

NDI	6.40	104	iPn	14	15.00	0.5
MAIO	10.68	306	eP	15	13.00	-0.9
POO	12.26	163	eP	15	28.50	-6.8X
GKN	12.89	97	P	15	41.80	-2.0
DMN	13.39	98	P	15	50.66	0.1
KKN	13.50	97	P	15	51.40	-0.5
PKI	13.66	98	P	15	52.08	-2.1
GUN	13.98	96	P	15	56.94	-1.4
HYB	15.01	147	eP	16	18.40	6.8X
			e	16	26.50	
GBA	18.00	156	P	16	52.00	2.6
			SP	20	12.00	
LSA	18.21	87	eP	16	57.30	4.8X
WMQ	19.35	41	P	17	12.00	6.3X
	1.0s	10.00nm			4.0mb	
GTA	25.87	62	Pd	18	17.20	6.6X
	1.2s	9.00nm			4.2mb	
CHG	28.53	107	eP	18	36.10	1.2
GYA	32.28	88	P	19	11.40	3.2X
BTO	33.79	61	eP	19	26.00	4.8X
HFS	47.57	326	eP	21	13.00	-1.1
	0.4s	1.00nm			4.2mb	
NB2	48.95	326	P	21	23.60	-1.3
	0.7s	1.90nm			4.2mb	
BCAO	54.98	253	ePd	22	07.80	-2.9
DAG	60.44	345	iPc	22	48.60	0.3
	0.7s	4.79nm			4.7mb	
MBC	73.47	2	eP	24	11.50	1.0
	0.9s	7.00nm			4.7mb	
WRA	79.45	121	P	24	45.00	0.0
	0.7s	4.30nm			4.6mb	
INK	80.05	9	eP	24	50.00	2.6
FBA	80.55	15	P	24	52.90	2.8
ASPA	81.41	124	eP	24	55.30	0.0
	0.7s	5.70nm			4.7mb	
YKA	87.38	2	eP	25	25.80	1.1
	0.7s	2.00nm			4.5mb	

S.D. = 1.7 on 19 of 26 obs.

% JAN 14, 1991 09h 17m 15.37± 0.65s
39.387 N ± 6.4km 28.002 E ± 6.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.0 (ISK).

DST	0.53	65	iPg	17	26.20	0.1
			eSg	17	34.20	
KCT	0.90	17	ePg	17	33.60	0.9
			eSg	17	46.80	
BNT	0.97	356	iPg	17	33.80	0.0
			eSg	17	47.60	
IZM	1.14	211	ePn	17	37.10	0.3
EZN	1.37	289	ePn	17	40.00	-0.4
IZI	1.48	50	ePn	17	41.00	-1.1
YLV	1.58	41	iPn	17	43.10	-0.4
ALT	1.67	101	ePn	17	45.00	0.1
HRT	1.92	41	ePn	17	49.00	0.6

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

? JAN 14, 1991 09h 25m 12.80± 1.08s
39.196 N ± 9.9km 27.592 E ±17.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZM	0.84	198	ePg	25	29.00	0.0
DST	0.90	63	iPn	25	30.20	0.1
BNT	1.19	12	ePn	25	35.10	0.2
KCT	1.21	29	ePn	25	35.00	-0.3

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

% JAN 14, 1991 09h 30m 41.02± 0.56s
43.906 N ± 6.2km 12.070 E ± 4.3km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)
MD 2.6 (ROM).

SFI	0.16	275	Pc	30	45.10	0.4
			eSg	30	47.80	
RSM	0.28	85	Pd	30	46.00	-0.8
			eSg	30	51.00	
CRE	0.29	197	Pc	30	46.40	-0.8
			eSg	30	51.80	
FIR	0.60	258	ePg	30	52.00	-1.2
			iSg	30	58.50	
ARV	0.75	123	P	30	56.50	0.7
			eSg	31	07.50	
ASS	0.94	153	P	30	59.70	0.7
			eSg	31	12.60	
BDI	1.07	279	P	31	02.00	0.7
			eSg	31	17.00	
PII	1.13	261	P	31	02.40	0.2
			eSg	31	19.10	
BOB	2.07	295	P	31	16.50	0.2
CTI	2.16	352	P	31	17.50	-0.2
			eSg	31	45.00	

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

JAN 14, 1991 09h 49m 57.73± 0.62s
22.727 S ± 6.7km 66.205 W ± 7.7km
DEPTH = 253.9 ± 8.3 km
4.3mb (3 obs.)
JUJUY PROVINCE, ARGENTINA (128)

ANT	3.99	255	iP	51	01.00	-1.1
			iS	51	47.20	
CCH	5.32	1	iPd	51	17.50	-0.9
CNCB	6.12	344	iPd	51	30.00	1.4
			S	52	39.00	
LPB	6.41	344	Pd	51	33.00	0.8
			S	52	46.00	
ZOBO	6.67	344	P	51	36.00	0.4
			S	52	39.00	
ARE	7.98	320	eP	51	50.00	-1.8
			iS	53	17.00	
SIV	8.27	37	iPd	51	54.90	-0.3
ITB1	11.00	102	e(P)	52	36.90	7.2X
FCH	11.16	198	eP	52	33.00	0.9
ITB	11.18	103	e(P)	52	39.20	7.2X
ITB7	11.26	105	e(P)	52	40.00	6.9X
PCH	11.50	198	eP	52	36.00	-0.1
PPD	13.80	90	eP	53	06.10	1.6
			e	53	07.80	
VAO	17.73	95	eP	53	49.60	-0.1
BAO	18.58	71	ePc	53	58.50	0.0
SOB1	27.74	65	eP	55	24.80	-0.4
LIC	66.35	72	P	00	20.30	-1.4
KIC	66.66	72	P	00	22.40	-1.3
	0.6s	5.00nm			4.4mb	
ALQ	68.91	325	eP	00	37.80	0.4
	1.0s	4.50nm			4.2mb	
GOL	72.07	329	P	00	56.90	0.6
TNP	77.15	321	P	01	26.90	1.8
SCH	77.23	360	eP	01	25.00	0.2
YKA	93.19	340	eP	02	37.00	-6.7X
	0.8s	2.20nm			4.3mb	
GBA	144.36	98	PKP	09	05.00	-0.8
HYB	146.53	93	ePKP	09	12.50	3.1X
KKN	153.75	73	PKP	09	29.30	9.0X
GUN	154.27	73	PKP	09	31.46	10.3X

S.D. = 1.1 on 20 of 27 obs.

% JAN 14, 1991 10h 20m 51.13± 0.99s
39.146 N ± 9.7km 27.615 E ±16.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

IZM	0.80	200	ePg	21	06.60	0.0
			iSg	21	18.60	
DST	0.91	59	iPn	21	08.20	-0.4
BNT	1.23	11	ePn	21	14.00	0.0
KCT	1.24	27	ePn	21	14.00	-0.2
IZI	1.86	50	ePn	21	24.00	0.6

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

JAN 14, 1991 10h 24m 30.20± 0.40s
2.733 S ± 6.1km 138.862 E ± 7.5km
DEPTH = 33.0km (normal)
4.8mb (8 obs.) 4.3Msz (2 obs.)
WEST IRIAN (201)

JAY	1.85	83	iP	24	59.20	-1.0
			iS	25	25.50	
MNDI	5.87	126	eP	26	03.00	5.6X
PMG	10.58	129	eP	27	05.00	2.4
MTN	12.63	217	eP	27	30.00	-0.4
	0.3s	122.00nm			6.5mb	X
KNA	16.31	217	eP	28	20.00	1.5
	0.5s	35.00nm			4.7mb	
KUPT	16.85	243	eP	28	31.60	6.3X
	0.8s	250.40nm			5.4mb	
OIS	17.73	178	eP	28	35.00	-1.3
			eS	31	46.00	
ASPA	21.36	193	iPd	29	16.30	-0.7
	0.7s	21.30nm			4.7mb	
Z	19s	1.10um			4.3Msz	
			iS	33	13.00	
HNR	21.99	109	eP	29	24.00	0.7
M8L	26.05	224	eP	30	03.00	0.5
	0.6s	14.00nm			4.7mb	
WARB	26.10	206	eP	30	03.20	0.2

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BRS     27.90 153 iP     30 19.00   -0.4
SSE     37.62 335 P      31 44.00    0.2
        1.0s     25.00nm          5.0mb
NJ2     39.46 333 Pc     32 00.50    1.3
XAN     46.18 325 P      32 54.00    0.2
CD2     47.30 318 P      33 03.60    0.8
BJI     47.38 336 eP     33 03.50    0.4
        1.0s     18.00nm          5.0mb
      Z 20s      0.30um           4.3Msz
CN2     47.87 347 eP     33 07.20    0.3
LZH     50.59 323 eP     33 26.00   -2.2
        2.0s     25.00nm          4.9mb
                 pP       33 37.50  41kmX
GTA     55.18 324 P      34 02.40    0.1
        0.9s      3.00nm          4.3mb
GUN     59.33 305 P      34 32.20    0.1
KKN     59.77 304 P      34 36.00    1.0
DMN     59.85 304 P      34 36.20    0.6
GKN     60.38 304 P      34 38.50   -0.6
WMO     65.12 322 P      35 10.30    0.1
KIC    143.55 277 PKP    44 02.70   -1.7
LIC    143.84 277 PKP    44 03.00   -1.9
CNCB   147.14 127 PKP    44 14.80    3.8X
LPB    147.20 127 ePKP   44 17.00    6.1X
ZOBO   147.32 126 PKP    44 14.50    3.2X
     S.D. = 1.1   on  25 of  30 obs.
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?  JAN  14, 1991   10h 56m 45.41± 1.17s
   43.814 N ±12.4km    12.124 E ± 9.2km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                    (381)
      MD 2.6 (ROM).

CRE      0.22 214 Pc     56 50.10   -0.2
                 eSg      56 53.80
SFI      0.22 299 Pd     56 49.50   -0.7
                 iSg      56 51.90
FIR      0.63 267 e(Pg)  56 55.00   -3.0X
                 iSg      57 02.00
ASS      0.84 152 P      57 05.00    3.3X
                 eSg      57 18.80
BDI      1.13 283 P      57 07.50    0.9
                 eSg      57 20.50
OHR      6.96 110 ePn    58 30.00    0.1
     S.D. = 1.1   on   4 of   6 obs.
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*  JAN  14, 1991   11h 36m 58.59± 2.14s
   35.039 S ±17.7km    70.664 W ± 8.9km
   DEPTH =  97.0 ± 13.6 km
   4.8mb ( 12 obs.)
 CHILE-ARGENTINA BORDER REGION    (127)

LCCH     1.73 334 iPc    37 27.10   -0.9
IHA      2.17 338 iPd    37 34.40    0.7
                 i(S)     37 54.00
MDZ      2.63  36 iP     37 43.90    3.9X
                 iS       38 13.20
RTLL     4.13  27 ePc    38 02.00    1.3
RTRS     4.96  12 e(P)   38 14.00    2.0
CYA      7.77  34 iPc    38 48.00   -2.8
ANT     11.30   1 e(P)   39 36.70   -1.6
CCH     18.04  14 P      41 05.10    0.3
CNCB    18.31   8 P      41 04.00   -4.4X
                 i        41 09.60
ARE     18.52 357 iPd    41 10.70    0.2
        0.5s     24.65nm          4.7mb
LPB     18.57   8 P      41 11.30    0.0
ZOBO    18.83   8 P      41 14.00   -0.2
        1.0s     20.00nm          4.4mb
SIV     20.83  27 P      41 34.30    0.0
PPD     21.33  58 eP     41 38.60   -0.6
                 e        41 42.40  14kmX
VAO     23.88  66 eP     42 05.30    1.1
                 e        42 29.30 113kmX
PDCR    36.28  60 eP     43 53.80   -0.6
                 e        44 24.10 135kmX
SO81    37.43  54 eP     44 06.30    2.2
RSCP    71.64 347 P      48 10.00   -1.3
LIC     74.04  70 P      48 26.50    0.7
KIC     74.35  70 P      48 28.30    0.7
TUL     74.37 339 eP     48 25.00   -2.2
        0.8s    122.60nm          5.8mb
FVM     74.93 344 P      48 28.70   -1.7
        0.8s     49.24nm          5.4mb
ALQ     77.24 330 ePd    48 43.20   -0.5
        1.0s     11.00nm          4.7mb
ANMO    77.24 330 P      48 48.70    5.0X
        1.0s     12.50nm          4.7mb
GLA     79.39 323 eP     48 56.00    0.7
PLM     80.64 322 eP     49 03.00    0.9
GLD     80.97 334 P      49 04.20    0.5
        1.0s     30.00nm          5.1mb
GOL     80.98 334 P      49 02.50   -1.3
        0.8s      7.14nm          4.6mb
PEC     81.22 322 P      49 05.50    0.6
MWC     81.93 322 eP     49 09.00    0.2
GSC     82.17 323 eP     49 11.00    1.1
SBB     82.18 322 eP     49 10.00    0.0
CLC     82.97 323 eP     49 14.00    0.0
ISA     83.28 323 eP     49 16.00    0.4
RSSD    84.43 337 P      49 20.50   -0.9
TNP     84.59 325 P      49 22.70    0.4
        0.8s     13.68nm          4.9mb
BW06    85.21 332 P      49 24.20   -1.1
        0.9s     11.30nm          4.8mb
PRS     85.27 321 eP     49 27.10    1.6
LLA     85.27 322 ePc    49 27.00    1.5
CMB     86.09 323 iPc    49 30.60    1.0
BKS     86.89 322 eP     49 34.80    1.4
        0.7s     22.00nm          5.3mb
BRK     86.91 322 eP     49 35.00    1.6
ORV     87.81 323 eP     49 39.10    1.3
WDC     89.11 323 iPc    49 43.80   -0.2
SES     92.24 335 eP     49 57.00   -1.2
YKA    103.41 341 ePdiff50 46.70   -1.8
        0.7s      0.80nm          4.7mb
WRA    120.39 207 PKP    55 39.00   -1.4
        1.3s      1.40nm
GBA    144.19 119 PKP    56 23.00   -2.0
                   e      56 52.00
                   e      57 02.00
HYB    147.47 115 ePKP   56 34.30    3.8X
KKN    158.27 103 PKP    57 00.00   14.3X
     S.D. = 1.3   on  45 of  50 obs.
-------------------------------------
%  JAN  14, 1991   11h 39m 31.38± 0.73s
   43.452 N ± 5.3km     5.459 E ± 6.0km
   DEPTH =  10.0km  (geophysicist)
 NEAR SOUTH COAST OF FRANCE       (379)
      MD 2.9 (STR).

GELF     0.07 199 Pg     39 33.36   -0.4
TREF     0.18 342 Pg     39 35.26   -0.2
PUYF     0.19  65 Pg     39 35.76    0.1
BERF     0.22 129 Pg     39 36.55    0.4
PRAF     0.41 329 Pg     39 40.37    0.6
VILF     0.44  25 Pg     39 39.89   -0.5
TAVF     0.47  69 Pg     39 40.86    0.0
     S.D. = 0.5   on   7 of   7 obs.
-------------------------------------
?  JAN  14, 1991   13h 48m 19.89±10.13s
   42.763 N ±87.0km    24.116 E ±18.1km
   DEPTH =  10.0km  (geophysicist)
 BULGARIA                         (359)
      MD 2.8 (THE).

SRS      1.69 194 iPc    48 49.66    0.1
KNT      1.84 210 ePc    48 51.60   -0.2
SOH      2.02 197 ePc    48 54.80    0.4
ALN      2.36 142 ePc    48 59.24    0.0
OUR      2.43 182 iPc    48 59.94   -0.3
     S.D. = 0.3   on   5 of   5 obs.
-------------------------------------
   JAN  14, 1991   14h 12m 10.00± 0.32s
   25.187 S ± 3.7km   178.314 E ± 3.9km
   DEPTH = 555.3 ±  4.4 km
   5.3mb ( 45 obs.)
 SOUTH OF FIJI ISLANDS            (171)
      MD 5.1 (SVA).
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 20S, 41C
      Centroid Locotion:
      Origin Time          14:12:20.9 0.4
      Lat 24.83S 0.04 Lon 178.19E 0.03
      Dep 599.5 2.0 Half-durotion  3.1
      Moment Tensor;    Scale 10**17 Nm
        Mrr=-0.64 0.12  Mtt= 4.02 0.15
        Mff=-3.38 0.17  Mrt=-2.30 0.17
        Mrf= 3.96 0.16  Mtf=-3.05 0.15
       Principal Axes:
        T  Val=  6.92  Plg=27  Azm=207
        N       -0.57      46      329
        P       -6.35      32       99
      Best Double Couple:Mo=6.6*10**17
       NP1:Strike=245 Dip=46 Slip=-176
       NP2:       152     87      -44

SVA      7.04   1 ePc    14 01.20    1.9
                 eS       15 32.20
VUN      7.15   1 eP     14 01.60    1.3
SGE      7.57 357 ePc    14 07.10    2.5
DZM     11.31 283 iPd    14 47.00    4.9X
                 iS       16 54.20
                 ScP      22 24.60
HBZ     12.37 180 eP     14 51.00   -1.6
WLZ     12.83 190 P      15 00.50    3.3X
PUZ     12.85 180 eP     14 55.80   -1.7
TAZ     13.10 186 P      15 03.70    3.8X
NOZ     13.39 181 P      15 02.50   -0.4
HITZ    13.65 188 P      15 09.70    4.2X
WHH     13.74 186 P      15 07.20    0.7
NGZ     14.14 189 eP     15 11.60    1.1
CNZ     14.17 189 P      15 12.20    1.5
AFI     14.59  42 eP     15 14.00   -1.0
                 eS       17 36.00
PGZ     15.48 186 P      15 25.50    1.9
                 e        22 26.80
MNG     15.57 188 P      15 23.50   -0.9
                 S        18 00.40
KIW     15.89 189 P      15 28.30    0.8
MTW     16.10 188 eP     15 28.80   -0.8
CAW     16.11 189 P      15 30.00    0.3
WDW     16.27 189 P      15 33.30    2.0
MRW     16.28 190 P      15 32.50    1.2
BLW     16.31 188 P      15 32.40    0.8
WEL     16.32 190 Pd+    15 33.00    1.3
        1.0s    147.20nm          5.5mb
                 S        18 16.00
                 ScS      26 08.00
TCW     16.33 191 eP     15 32.50    0.7
MOW     16.39 188 P      15 32.40    0.0
THZ     17.13 194 P      15 40.20    0.6
KHZ     17.63 192 P      15 43.40   -1.0
LTZ     18.24 194 P      15 49.80   -0.5
MOZ     19.05 193 P      15 56.40   -1.4
MMCZ    21.12 198 P      16 16.00   -1.2
MHZ     21.13 198 P      16 15.80   -1.5
SVO     23.75 309 P      16 43.00    1.9
COO     23.94 251 iPd    16 43.70    1.0
        0.3s     43.00nm          5.6mb
                 i        22 49.20
                 i        24 19.60
RMO     26.61 261 iPc    17 07.80    1.5
                 i        22 57.00
                 i        24 34.00
CN8     26.88 241 eP     17 10.00    1.3
        0.5s     86.00nm          5.6mb
                 e        22 58.00
CMS     29.20 250 eP     17 29.00    0.3
        0.5s     70.00nm          5.5mb
                 e        23 05.00
TBI     29.40  93 iP     17 31.10    0.6
        0.7s    120.00nm          5.6mb
TOO     30.47 238 iPc    17 40.80    1.3
        0.5s    195.00nm          6.0mb
                 e        23 09.00
                 e        25 23.00
AFR     30.62  82 iP     17 40.60   -0.3
        1.1s    220.00nm          5.7mb
                 iScP     23 08.20
OLP     30.64 260 iPc    17 40.70   -0.4
PAE     30.76  82 iP     17 41.60   -0.5
        1.1s    120.00nm          5.4mb
                 iScP     23 08.50
PPT     30.79  82 iP     17 42.10   -0.3
        1.1s    165.00nm          5.6mb
                 iScP     23 08.60
PPN     30.93  82 iP     17 43.30   -0.3
        1.1s    150.00nm          5.5mb
                 iScP     23 09.00
TVO     31.01  83 iP     17 44.20   -0.1
        1.1s    295.00nm          5.8mb
                 iScP     23 09.30
BFD     32.67 240 iPd    18 02.40    4.4X
        0.8s    132.00nm          5.6mb
                 e        23 19.00
PMO     33.23  79 iP     18 02.90    0.0
        1.1s     95.00nm          5.3mb
                 iScP     23 18.40
VAH     33.37  79 iP     18 04.10    0.0
```

14d 14h

	1.1s	80.00nm		5.3mb		WDC	85.43	41	iPd	23	50.00	0.1		CLL	151.59	340	ePKP	31	01.00	5.6X
		iScP	23	18.60					i	24	02.10				0.7s	15.00nm				
TPT	33.48	79 iP	18	05.20	0.2	CLC	85.69	47	eP	23	51.00	-0.3					i	31	11.90	
	1.1s	205.00nm		5.7mb		GSC	85.92	48	eP	23	52.00	-0.5		BCAO	151.66	227	iPKPc	31	03.00	6.3X
		iScP	23	19.20		GLA	86.03	51	eP	23	53.00	0.0			0.7s	47.00nm				
PMG	33.51	292 eP	18	04.00	-1.3	NST	86.26	289	eP	23	58.80	4.5X					id	31	14.40	
RUV	33.61	79 iP	18	06.10	0.0	BONR	86.47	45	P	23	55.80	0.5					id	33	36.50	
	1.1s	185.00nm		5.6mb		BJI	86.91	317	eP	23	58.00	1.0		BRG	151.67	339	iPKP	31	02.50	7.0X
		iScP	23	19.40					eS	33	48.00						i	31	09.20	
ADE	35.44	245 iPd	18	21.70	0.5	TNP	87.24	45	P	23	58.80	-0.1		PRU	152.22	337	PKP	31	02.50	6.1X
	0.7s	123.29nm		5.6mb			0.6s	13.27nm				4.9mb					e	31	12.50	
QIS	35.88	269 iPc	18	24.90	0.0	TIY	87.95	314	eP	24	03.00	1.0		MOX	152.59	341	ePKP	31	15.50	18.6X
	0.4s	16.00nm		5.0mb					S	34	00.00			KHC	153.28	337	ePKP	31	06.00	8.1X
		i	23	29.00		XAN	88.34	309	P	24	04.00	0.1		KIC	161.05	171	PKP	31	16.64	8.5X
		e	27	36.00		KMI	88.52	299	eP	24	06.00	0.9			S.D. = 1.1		on 140 of 163 obs.			
MNDI	38.18	294 eP	18	45.50	1.4	CHG	88.70	291	eP	24	06.30	0.5		----------						
ASPA	40.33	263 eP	18	59.50	-1.8		1.1s	16.77nm				4.9mb		* JAN 14, 1991 15h 09m 38.55± 1.26s						
	0.4s	100.80nm		5.8mb		8MW	88.76	36	P	24	05.80	0.3		7.103 S ±14.6km 147.739 E ±10.8km						
Z	21s	1.80um		4.9Msz		SHW	89.11	37	P	24	08.00	0.7		DEPTH = 88.2 ± 11.7 km						
		iScP	23	45.70		SLKM	89.16	15	P	24	07.00	-0.1		5.0mb (10 obs.)						
		iS	24	26.50		GMW	89.67	35	P	24	09.60	0.0		EAST PAPUA NEW GUINEA REGION					(207)	
		iScS	27	54.50		LON	89.69	36	P	24	09.60	-0.2								
WRA	40.81	268 P	19	04.00	-1.1	PGC	90.03	34	eP	24	11.00	-0.2		YYYY	1.96	296	eP	10	11.00	0.2
	0.5s	190.00nm		5.9mb		TTA	90.16	11	P	24	11.20	-0.5		SVO	12.13	100	P	12	30.00	0.3
RKT	42.51	97 iP	19	18.70	0.2		1.1s	21.88nm				5.0mb		ASPA	21.16	217	eP	14	17.30	-1.2
	1.2s	115.00nm		5.3mb		HHC	90.25	316	eP	24	12.80	0.2			0.6s	26.50nm			4.8mb	
FORR	44.39	251 eP	19	32.00	-1.1	PMR	90.37	15	P	24	11.00	-1.5			Z 21s	0.20um			3.5Msz	
WARB	46.32	257 iPc	19	46.90	-1.1		0.8s	18.97nm				5.1mb					eS	18	09.60	
		eS	25	52.00		CD2	90.51	304	eP	24	14.00	0.0		CVP	35.54	314	eP	16	25.00	-4.1X
KNA	47.14	272 iPc	19	53.90	-0.4	MSU	90.78	47	P	24	15.00	-0.3		MAT	44.32	349	(P)	17	37.00	-4.6X
	0.7s	163.00nm		5.7mb		DUG	91.26	46	P	24	16.50	-0.8			0.8s	13.43nm			4.8mb	
COOL	50.32	250 eP	20	16.10	-1.8		0.6s	4.11nm				4.6mb		SSE	45.70	328	iPc	17	51.70	-0.8
GUA	50.42	316 eP	20	18.30	-0.4	DPW	92.33	37	P	24	21.30	-0.6			0.9s	13.00nm			4.8mb	
	0.8s	113.43nm		5.4mb		DAU	92.38	46	P	24	22.50	-0.2		NJ2	47.70	326	Pc	18	07.80	-0.4
PJG	50.48	316 eP	20	18.50	-0.6	PNT	92.42	35	ePc	24	22.00	-0.3					sP	18	19.50	
VNDA	52.98	184 iPc	20	36.00	-0.5		0.7s	8.00nm				4.9mb		NST	52.30	296	eP	18	50.00	6.4X
SBA	53.01	183 iPc	20	37.80	1.1	ALQ	92.95	53	iPc	24	25.00	-0.3		CHG	54.56	299	eP	19	02.40	2.2X
KLB	53.08	248 eP	20	36.10	-1.8		0.9s	9.66nm				4.9mb		CHTO	54.56	299	P	19	02.00	1.8
	0.3s	51.00nm		5.3mb					e	26	36.00			XAN	54.99	321	P	19	01.60	-1.6
NWAO	53.31	247 eP	20	38.00	-1.5	ANMO	92.96	53	P	24	25.40	0.1		TIY	55.42	326	eP	19	09.50	3.3X
MBL	53.56	262 eP	20	39.50	-1.9		0.7s	24.83nm				5.4mb		CD2	56.56	314	P	19	13.80	-0.8
	0.4s	39.00nm		5.1mb		LZH	92.96	309	eP	24	27.00	1.7		LZH	59.52	319	Pd	19	34.00	-1.2
BAL	54.14	249 eP	20	43.70	-1.6		1.5s	23.00nm				5.1mb			1.5s	34.00nm			5.3mb	
	0.3s	6.00nm		4.4mb		FBA	93.55	14	P	24	25.10	-2.0					pP	19	47.50	49kmX
MUN	54.32	248 iPd	20	45.20	-1.4		0.8s	9.48nm				5.0mb		GTA	64.05	320	Pd	20	05.00	-0.5
	0.7s	76.00nm		5.1mb		GOL	95.96	49	P	24	38.70	-0.2			1.0s	10.00nm			4.7mb	
MRWA	55.01	251 iPd	20	51.20	-0.3		0.7s	4.98nm				4.9mb		LSA	65.49	307	Pc	20	16.60	1.3
	0.4s	15.00nm		4.7mb		INK	99.68	16	eP	24	53.00	-1.7		GUN	69.08	303	P	20	38.48	0.7
SPA	64.96	180 iPc	21	56.70	-0.2	YKA	102.18	26	ePdiff	25	04.60	-1.4			0.7s	27.00nm			5.2mb	
	1.0s	100.00nm		5.3mb			0.7s	0.60nm				4.3mb		PKI	69.36	303	P	20	39.48	0.0
		i	23	22.40		ZOBO	103.30	115	Pdiff	25	17.00	4.3X		KKN	69.54	303	P	20	40.84	0.4
MAT	72.11	327 eP	22	39.00	-0.8	Z	16s	0.34um				5.0MszX			1.0s	31.00nm			5.2mb	
	1.2s	26.56nm		4.6mb					i	29	35.00			DMN	69.62	303	P	20	41.78	0.8
		eS	31	30.00					LR	38	00.00				1.0s	60.00nm			5.4mb	
MAW	76.01	201 iPc	23	00.80	-0.4	MBC	108.07	13	ePKP	29	35.00	-2.2		GKN	70.15	303	P	20	44.54	0.5
	0.7s	62.00nm		5.2mb		SCH	124.47	40	ePKP	30	05.00	-1.2			1.0s	65.00nm			5.5mb	
KGM	77.31	278 ePd	23	09.80	0.6	MAIO	127.03	298	ePKP	30	12.00	-0.8		GBA	72.75	287	Pd	21	00.20	0.6
IPM	80.49	280 ePc	23	25.00	-0.9				e	32	37.00				0.9s	3.60nm			4.2mb	
	0.7s	56.50nm		5.2mb		PDCR	127.68	131	ePKP	30	12.00	-2.5		PPD	145.55	148	e(PKP)	29	04.00	-4.9X
MDJ	82.49	327 eP	23	36.00	0.7				e	30	23.20				S.D. = 1.0		on 17 of 23 obs.			
WHN	82.58	309 eP	23	39.00	2.9X				e	32	36.70			----------						
PRS	83.53	45 eP	23	41.40	0.6	SOB1	128.74	127	ePKP	30	05.30	-13.3X		* JAN 14, 1991 15h 30m 31.58± 1.07s						
GCC	83.56	44 eP	23	41.10	0.2				e	30	17.50			50.944 S ±17.8km 162.180 E ± 9.7km						
PCC	83.61	43 eP	23	41.60	0.5				e	30	27.30			DEPTH = 33.0km (normal)						
SAO	83.75	45 eP	23	42.40	0.6				e	32	42.00			5.0mb (1 obs.)						
PHAM	83.86	46 P	23	43.30	0.9	SOD	134.34	345	ePKP	30	23.00	-2.6		AUCKLAND ISLANDS REGION					(166)	
PRI	83.87	45 eP	23	43.30	0.7	NUR	140.31	340	ePKP	30	35.00	-1.8								
BRK	83.92	43 eP	23	43.20	0.6	UPP	142.83	344	iPKP	30	36.20	-5.0X		MHZ	7.57	42	P	32	22.40	0.0
BKS	83.93	43 iPc	23	43.40	0.7	NB2	143.09	350	PKP	30	37.30	-4.4X		MOZ	10.14	48	eP	32	57.50	-0.3
	0.9s	91.00nm		5.4mb			1.0s	55.90nm						LTZ	10.68	44	P	33	05.20	-0.1
MHC	83.98	44 eP	23	43.60	0.5	HFS	143.48	347	ePKP	30	38.00	-4.3X		KHZ	11.55	47	eP	33	17.50	0.5
LLA	83.98	45 eP	23	43.70	0.7		0.4s	43.10nm						TOO	17.88	312	iPd	34	40.20	1.0
CN2	84.02	325 Pc	23	43.00	0.0	SHBJ	145.00	291	PKPd	30	46.78	0.8		CNB	18.16	324	eP	34	45.00	2.2X
ABL	84.05	47 P	23	44.00	0.4	CSTJ	145.79	289	PKPc	30	48.70	1.5		RMQ	26.49	332	eP	36	08.00	0.5
ARN	84.05	44 P	23	44.10	0.7	MDSJ	146.14	290	PKPc	30	49.58	1.8		WRA	37.92	314	P	37	45.00	-2.5
PAS	84.34	48 eP	23	44.00	-0.8	HRI	146.50	293	ePKP	30	50.00	1.7			0.9s	19.90nm			5.0mb	
MWC	84.46	48 eP	23	45.00	-0.6	SALJ	146.61	290	PKPc	30	50.68	2.2		BDT	87.44	301	eP	43	16.90	0.2
BAR	84.53	50 eP	23	46.00	0.2	LISJ	146.81	289	(PKP)	30	51.34	2.7		CHG	88.76	302	eP	43	23.80	0.7
PLM	84.78	50 eP	23	47.00	-0.2	VRI	149.27	319	ePKPd	30	53.50	1.3		BCAO	124.57	226	ePKPc	49	29.50	0.3
RVR	84.79	49 eP	23	46.00	-1.0	EKA	149.87	2	PKP	30	58.00	5.3X			0.6s	3.00nm				
PEC	84.88	49 P	23	47.60	0.1		0.6s	7.00nm						INK	128.09	25	ePKP	49	34.00	-0.3
SBB	84.89	48 eP	23	42.00	-5.5X	KRA	150.05	332	ePKP	30	58.00	4.8X		FRB	150.66	45	ePKP	50	21.00	6.5X
FRI	84.99	45 ePd	23	47.50	-0.4				e	31	08.00			MLR	150.67	277	ePKPc	50	24.00	8.6X
		e	24	01.00		KSP	150.89	336	iPKP	31	00.00	5.6X		VAY	150.73	267	ePKP	50	19.00	3.6X
ISA	85.02	47 eP	23	48.00	-0.1		0.6s	28.00nm						DAG	154.07	1	iPKPc	50	27.70	8.6X
CMB	85.19	44 iPd	23	48.60	-0.3				i	31	08.50				0.6s	3.33nm				
ORV	85.42	42 eP	23	49.70	-0.2				e	33	22.00				S.D. = 1.0		on 11 of 16 obs.			

* JAN 14, 1991 15h 39m 24.50± 1.15s
8.462 S ±12.1km 123.582 E ±12.0km
DEPTH = 163.3 ± 13.0 km
4.6mb (7 obs.)
FLORES ISLAND REGION (286)

KUPT	1.68	179	eP	39	58.00	0.7
			eS	40	18.50	
MTN	8.60	121	iPd	41	26.80	-0.1
	0.3s	199.00nm			6.1mb	X
			eS	42	55.00	
KNA	8.84	146	iPc	41	28.20	-1.8
	0.2s	18.00nm			5.3mb	
			eS	43	00.00	
MBL	13.13	196	eP	42	26.00	0.0
	0.3s	2.00nm			4.0mb	
			eS	44	39.00	
WARB	17.86	171	eP	43	24.00	-0.1
ASPA	18.06	148	iPc	43	26.60	0.3
	0.5s	9.90nm			4.4mb	
Z	22s	0.40um			3.9MszX	
			eS	46	38.70	
OIS	19.60	130	iPd	43	43.80	1.4
	0.4s	28.00nm			5.0mb	
GUN	51.35	316	P	48	15.08	0.2
	0.7s	15.00nm			4.8mb	
PKI	51.46	315	P	48	15.38	-0.3
KKN	51.68	316	P	48	16.90	-0.4
	0.7s	7.00nm			4.5mb	
DMN	51.69	315	P	48	17.46	0.1
GKN	52.26	315	P	48	21.44	0.0
	0.6s	9.00nm			4.6mb	

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

% JAN 14, 1991 15h 53m 14.90± 2.01s
3.546 N ± 7.4km 75.802 W ±19.7km
DEPTH = 33.0km (normal)
COLOMBIA (103)
MD 3.1 (UVC).

DIAC	0.47	237	iPc	53	23.68	-1.5
BUGC	0.57	307	iPd	53	25.95	-0.7
			eS	53	35.30	
CLMC	0.83	294	eP	53	30.50	0.2
HOOC	0.83	265	iPc	53	30.48	0.0
			eS	53	43.30	
HOBC	0.87	338	eP	53	30.91	0.1
SILC	1.01	212	ePc	53	32.41	-0.7
			eS	53	46.30	
SALC	1.06	237	eP	53	34.58	1.0
ANCC	1.06	268	eP	53	34.52	1.0
			eS	53	50.20	
PURC	1.34	205	eP	53	38.63	0.7
			eS	53	57.10	

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

? JAN 14, 1991 15h 53m 23.44± 3.32s
31.595 S ±14.5km 72.052 W ±30.8km
DEPTH = 33.0km (normal)
OFF COAST OF CENTRAL CHILE (134)

IHA	1.47	166	eP	53	49.80	2.0
			eS	54	10.00	
ROCH	1.63	148	iPd	53	49.60	-0.8
			iS	54	10.10	
JACH	1.65	132	iPd	53	49.60	-0.9
			iS	54	10.50	
LCCH	1.92	168	eP	53	54.00	-0.4
SAN	2.19	148	iPd	53	59.00	0.7
			iS	54	26.00	
TACH	2.26	156	iPc	53	58.50	-0.7
			iS	54	27.50	
FCH	2.28	140	iPd	53	59.30	-0.5
			iS	54	29.40	
PCH	2.40	148	iPc	54	00.90	-0.5
RTRS	2.64	58	iPc	54	05.60	1.0
			eS	54	39.40	
RTCV	3.01	96	e(P)	54	11.70	1.8
RTLL	3.07	86	ePd	54	11.30	0.5
			eS	54	52.00	
CYA	6.27	62	e(P)	54	54.00	-2.1

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

& JAN 14, 1991 16h 24m 57.34s
58.269 N 142.691 W
DEPTH = 10.0km (geophysicist)
4.5mb (5 obs.)
GULF OF ALASKA (15)
<AEIC>. ML 4.2 (PMR).

WRG	1.81	11	eP	25	23.96	-4.8
KAIM	1.89	333	iP	25	25.23	-4.6
			eS	25	46.28	
YKU	2.01	49	iPd	25	26.70	-4.9
WAX	2.19	358	iP	25	29.08	-5.3
MID	2.22	303	iPc	25	29.00	-5.7
HMT	2.22	339	eP	25	29.75	-5.1
RAGM	2.36	335	iP	25	31.51	-5.2
SGAM	2.58	331	iP	25	34.91	-5.0
CVA	2.77	327	eP	25	36.56	-5.9
BALM	2.78	3	iP	25	37.20	-5.6
HIN	2.89	319	iP	25	38.88	-5.4
VZW	3.42	327	iP	25	44.80	-7.0
PLBC	3.49	67	iP	25	46.60	-6.2
			eS	26	25.00	
KLU	3.62	335	iP	25	47.60	-7.1
HYT	3.68	44	eP	25	50.00	-5.6
SIT	4.14	104	eP	25	52.80	-9.1
TOA	4.22	337	iPc	25	58.00	-5.2
PMS	4.58	314	eP	26	01.60	-6.6
WHC	4.59	54	eP	26	02.30	-6.1
PMR	4.65	319	ePc	26	03.00	-6.2
KDC	5.24	268	eP	26	11.30	-6.2
DWY	6.01	14	eP	26	22.40	-6.0
FBA	7.08	342	eP	26	35.80	-7.7
SVW	7.14	299	eP	26	33.50	-10.8
TTA	8.04	311	eP	26	49.20	-7.8
IMA	9.35	331	eP	27	06.70	-8.4
INK	10.87	18	P	27	29.00	-6.8
	0.9s	2.20nm			4.5mb	
YKA	14.45	61	eP	28	18.30	-5.3
	0.6s	7.20nm			4.5mb	
MBC	19.88	16	eP	29	24.00	-7.1
	0.8s	5.00nm			3.9mb	
SES	19.91	100	eP	29	26.00	-5.7
FFC	22.50	81	ePc	29	54.10	-3.8
	0.7s	10.00nm			4.4mb	
DAG	40.70	17	iPc	32	34.40	-4.4
	0.6s	6.00nm			4.5mb	

32 obs. associated

% JAN 14, 1991 17h 41m 00.35± 1.05s
37.978 N ± 7.9km 16.034 E ± 7.7km
DEPTH = 10.0km (geophysicist)
IONIAN SEA (399)

SOI	0.10	10	Pd	41	03.40	0.4
			iSg	41	05.50	
MSI	0.44	301	Pc	41	09.30	0.0
			eSg	41	16.00	
ATN	0.49	292	Pc	41	09.60	-0.6
			eSg	41	17.90	
MNO	1.06	268	P	41	20.90	0.4
			eSg	41	34.40	
MEU	1.24	225	P	41	23.20	-0.3
			eSg	41	39.70	
GIB	1.59	271	P	41	29.00	0.4
TDS	1.70	8	P	41	30.10	0.0
			eSn	41	52.50	
SGO	2.64	348	P	41	43.90	0.3
BRT	3.03	17	P	41	48.70	-0.6

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

JAN 14, 1991 17h 55m 07.24± 0.31s
43.813 N ± 3.4km 11.896 E ± 3.1km
DEPTH = 19.5 ± 3.7 km
CENTRAL ITALY (381)
ML 3.5 (KBA). MD 3.4 (ROM).

SFI	0.11	344	Pc	55	10.90	-0.3
			eSg	55	13.60	
CRE	0.19	168	Pd	55	11.40	-1.0
			eSg	55	15.00	
RSM	0.42	74	Pd	55	11.00	-4.8X
			iSg	55	17.70	
FIR	0.46	266	iPgd	55	15.50	-1.1
			iSg	55	24.00	
ARV	0.82	112	P	55	22.00	-0.7
			eSg	55	33.30	
ASS	0.93	143	P	55	24.30	-0.3
			eSg	55	38.50	
MME	0.94	294	P	55	27.50	2.6X
			eSg	55	43.00	
BDI	0.97	285	P	55	26.70	1.4
			eSn	55	45.00	
PII	1.00	265	Pc	55	27.50	1.8
			iSg	55	46.00	
MAO	1.50	202	P	55	36.30	3.1X
MNS	1.54	158	P	55	34.50	0.7
			eSg	55	55.70	
AQU	1.83	142	P	55	40.30	2.3
			eSn	56	01.20	
BOB	2.00	299	P	55	43.50	3.0X
SAL	2.04	332	P	55	42.50	1.5
RDP	2.14	163	P	55	43.00	0.4
AZI	2.15	148	P	55	42.90	0.4
CTI	2.24	356	P	55	45.00	1.0
			eSn	56	12.00	
TRI	2.32	34	P	55	45.00	0.1
RIY	2.35	48	iPn	55	43.40	-2.0
PGF	2.47	240	Pn	55	46.50	-0.7
			Sn	56	16.50	
MDI	2.50	322	P	55	49.00	1.4
			eSn	56	20.00	
SDI	2.54	145	P	55	49.00	0.8
CEY	2.64	42	ePn	55	49.80	0.2
			eSn	56	20.80	
CKI	2.67	284	P	55	51.20	1.1
			eSg	56	24.00	
FVI	2.85	12	Pc	55	51.80	-0.7
DUI	2.86	138	P	55	52.00	-0.8
LJU	2.91	39	e(Pn)	55	52.00	-1.4
			eSn	56	27.50	
VBY	2.93	54	ePn	55	54.80	1.1
			iSn	56	30.80	
VAI	3.03	314	P	55	56.00	1.0
SBF	3.23	272	Pn	55	57.00	-1.0
			Sn	56	35.20	
SCE	3.23	358	iPnc	55	59.60	1.5
ORO	3.33	304	P	56	00.00	0.6
DOI	3.42	283	P	56	01.00	0.3
KBA	3.42	17	iPnc	56	00.20	-0.6
			iSn	56	33.70	
			i	56	37.10	
SOTA	3.44	352	iPnc	56	03.60	2.6X
			i	56	35.80	
			i	56	46.40	
PTJ	3.56	53	iPnd	55	57.90	-4.9X
			eSn	56	34.00	
FRF	3.82	268	Pn	56	05.00	-1.3
			Sn	56	48.50	
BNI	3.94	290	P	56	09.00	0.9
LMR	3.94	265	Pn	56	06.80	-1.2
LRG	4.03	267	Pn	56	08.30	-1.0
LPG	4.04	296	Pn	56	10.20	0.5
LPL	4.06	297	Pn	56	10.70	0.8
BSF	5.37	320	Pn	56	27.80	-0.6
			Sn	57	28.00	
CDF	5.61	327	Pn	56	31.40	-0.3
HAU	5.71	319	Pn	56	32.40	-0.6
			Sn	57	36.00	
GRF	5.90	356	e(Pg)	57	01.50	25.8X
			e(Sg)	57	38.50	
SMF	6.35	299	Pn	56	41.60	-0.6
LBF	6.41	302	Pn	56	42.20	-0.9
			Sn	57	54.20	
LOR	6.62	304	Pn	56	45.00	-0.9
			Sn	57	59.00	
AVF	6.72	299	Pn	56	46.20	-1.1
BGF	6.96	296	Pn	56	50.00	-0.7

S.D. = 1.1 on 44 of 51 obs.

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* JAN 14, 1991 17h 57m 20.37± 2.13s
7.414 N ±17.9km 126.563 E ±20.2km
DEPTH = 81.7 ± 18.8 km
4.2mb (4 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

MAP	3.86	319	ePc	58	18.50	0.0
			iS	59	02.00	
CHTO	29.14	296	(P)	03	14.00	-2.0
ASPA	31.71	167	eP	03	38.00	-0.6
	0.8s	3.90nm			4.2mb	
BRS	42.91	145	iP	05	13.50	0.8
GUN	43.51	303	P	05	19.00	1.0
PKI	43.79	302	P	05	20.60	0.3
KKN	43.97	303	P	05	22.60	1.0
DMN	44.05	302	P	05	22.60	0.2
GKN	44.58	303	P	05	26.60	0.2
HYB	47.81	287	eP	06	04.50	12.6X

14d 18h

GBA 48.63 282 P 06 02.00 3.9X
0.8s 2.30nm 4.2mb
DAG 93.62 352 iPc 10 27.60 -0.7
0.7s 4.79nm 5.0mb
YKA 96.23 24 eP 10 40.20 -0.3
0.7s 0.50nm 4.2mb
S.D. = 1.0 on 11 of 13 obs.

% JAN 14, 1991 19h 13m 14.18± 0.76s
43.778 N ± 8.1km 11.925 E ± 8.9km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

CRE 0.15 173 P 13 18.50 0.7
eSg 13 22.00
SFI 0.15 340 P 13 18.40 0.7
eSg 13 21.00
ARV 0.79 110 P 13 29.80 0.2
eSg 13 42.00
ASS 0.89 143 P 13 32.00 0.7
eSg 13 45.00
BDI 1.00 287 P 13 33.50 0.3
eSg 13 47.50
S.D. = 0.3 on 5 of 5 obs.

% JAN 14, 1991 19h 42m 01.68± 0.56s
43.803 N ± 5.6km 11.893 E ± 5.8km
DEPTH = 13.3 ± 5.0 km
CENTRAL ITALY (381)
MD 2.7 (ROM).

SFI 0.12 346 Pd 42 05.20 0.1
eSg 42 08.10
CRE 0.18 166 P 42 05.80 -0.3
eSg 42 08.20
FIR 0.46 267 ePg 42 10.00 -1.1
iSg 42 18.00
ARV 0.82 111 P 42 17.20 -0.1
eSg 42 28.50
ASS 0.92 142 P 42 19.50 0.5
eSg 42 32.20
BDI 0.97 286 P 42 21.20 1.3
eSg 42 35.20
MNS 1.53 158 P 42 28.80 0.1
eSn 42 49.00
CTI 2.25 356 P 42 39.50 0.3
eSg 43 07.20
CKI 2.68 285 P 42 45.00 -0.2
eSg 43 17.50
FVI 2.86 12 P 42 47.00 -0.7
S.D. = 0.8 on 10 of 10 obs.

? JAN 14, 1991 20h 12m 54.64± 1.00s
37.043 N ± 9.1km 29.586 E ± 8.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ELL 0.39 139 iPg 13 02.70 0.0
eSg 13 11.20
BCK 0.90 62 iPn 13 12.00 0.0
KHL 1.28 358 ePn 13 18.40 0.0
CIN 1.32 295 eP 13 19.00 0.0
S.D. = 0.0 on 4 of 4 obs.

& JAN 14, 1991 20h 26m 15.19s
59.628 N 152.813 W
DEPTH = 100.9km
SOUTHERN ALASKA (2)
<AEIC>.

OPT 0.21 277 iP 26 29.13 0.9
eS 26 40.10
AUE 0.39 227 eP 26 29.74 -0.8
eS 26 40.97
AUP 0.41 230 eP 26 30.23 -0.6
eS 26 42.64
AUH 0.42 231 eP 26 30.17 -0.6
eS 26 40.91
AUI 0.43 227 eP 26 30.06 -0.7
eS 26 41.56
INE 0.45 344 eP 26 30.41 -0.8
XLV 0.58 107 eP 26 30.95 -1.0
eS 26 43.63
HOM 0.59 87 iP 26 31.72 -0.3
eS 26 44.54
PDB 0.72 284 eP 26 32.08 -1.0
RED 0.79 1 iP 26 33.02 -0.9
eS 26 47.31
CNPM 0.81 97 iP 26 33.28 -0.7
eS 26 46.90
CDD 0.82 212 iP 26 33.07 -1.0
RS2 0.84 2 eP 26 33.78 -0.7
RSO 0.84 2 iP 26 33.67 -0.8
eS 26 48.45
REF 0.87 4 iP 26 33.94 -0.8
eS 26 48.66
NNL 0.87 61 eP 26 34.93 0.3
RDN 0.89 2 iP 26 34.19 -0.7
eS 26 48.99
MCNL 0.90 241 eP 26 33.92 -1.0
eS 26 48.85
NCT 0.94 356 iP 26 34.56 -0.9
eS 26 49.89
RDT 0.97 12 iP 26 34.69 -1.0
BRLK 0.99 81 iP 26 34.94 -0.9
eS 26 49.97
SYI 1.04 168 eP 26 35.32 -1.1
eS 26 51.32
NKA 1.37 34 eP 26 41.11 0.9
SLKM 1.57 55 eP 26 41.47 -1.3
CKL 1.59 8 iP 26 42.34 -0.8
eS 27 03.38
SPU 1.60 13 eP 26 42.40 -0.8
BGL 1.65 7 iP 26 43.24 -0.7
CGLM 1.73 13 iP 26 44.15 -0.8
eS 27 06.28
SEW 1.76 73 eP 26 44.05 -1.1
eS 27 05.25
NCG 1.81 10 iP 26 45.18 -0.8
SVW 2.04 318 iP 26 47.41 -1.4
SUA 2.11 28 eP 26 49.20 -0.6
PMS 2.29 43 eP 26 51.00 -1.1
eS 27 18.28
SKT 2.44 14 eP 26 52.85 -1.4
PWA 2.49 34 eP 26 53.78 -1.0
LTI 2.54 78 eP 26 54.56 -0.9
MTU 2.63 80 eP 26 55.39 -1.4
KNIM 2.65 72 eP 26 55.05 -2.0
PLRM 2.68 41 eP 26 55.24 -2.1
KNK 2.80 48 eP 26 57.01 -2.0
GHO 2.88 40 eP 26 58.17 -2.0
CUT 3.05 23 eP 27 00.52 -1.8
GLI 3.11 64 eP 27 00.21 -3.1
VZW 3.43 63 eP 27 05.12 -2.5
VLZ 3.55 62 eP 27 06.28 -2.9
KLU 3.88 58 iP 27 11.60 -2.3
TOA 4.09 50 eP 27 14.22 -2.5
RND 4.24 25 eP 27 16.88 -1.9
SDG 4.57 47 eP 27 21.21 -2.1
GLB 4.80 64 eP 27 23.79 -2.7
BALM 5.39 70 eP 27 32.55 -2.1
51 obs. associated

JAN 14, 1991 20h 46m 04.58± 0.65s
46.379 N ± 5.6km 14.887 E ± 5.4km
DEPTH = 5.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.8 (VIE), MD 2.7 (LJU), 2.4
(TRI). Felt (IV) at Bleiburg and
Carinthio, Austria.

LJU 0.42 216 iPg 46 13.40 0.5
eSg 46 19.60
CEY 0.72 207 ePg 46 18.90 0.0
iSg 46 28.90
PTJ 0.89 122 iPgd 46 21.50 -0.6
eSg 46 35.50
VBY 0.91 163 ePg 46 22.60 0.1
iSg 46 37.00
ZAG 0.95 126 ePg 46 22.50 -0.6
iSg 46 37.00
TRI 1.03 230 i(Pg) 46 23.70 -0.8
iSg 46 39.30
RIY 1.09 199 ePg 46 26.10 0.5
KBA 1.27 304 iPgc 46 26.60 -2.1
i 46 30.10
iSg 46 43.40
FVI 1.47 279 P 46 32.90 1.2
eSg 46 54.40
VKA 2.12 27 ePg 46 42.50 1.3
i 47 07.40
i(Sg) 47 11.00
i 47 13.90
CTI 2.27 263 P 46 44.00 0.6
eSg 47 14.00
SOTA 2.66 290 iPgd 46 49.00 0.0
ic 46 49.90
i 46 55.00
iSg 47 21.40
PRU 3.62 356 eP 47 05.50 3.1X
Pg 47 10.00
Sg 47 50.00
GRF 4.13 325 e(Pn) 47 14.80 5.2X
e(Pg) 47 22.10
e(Sn) 47 56.10
e(Sg) 48 13.90
S.D. = 1.0 on 12 of 14 obs.

JAN 14, 1991 21h 11m 04.22± 0.34s
18.029 N ± 6.3km 101.700 W ± 6.0km
DEPTH = 30.5km (9 depth phases)
5.3mb (39 obs.) 5.0Msz (6 obs.)
GUERRERO, MEXICO (59)
Mo=2.0*10**17 Nm (PPT). Felt at
Chilpancingo, Lazaro Cardenas
and Mexico City.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 22C
Centroid Location:
Origin Time 21:11:14.7 0.8
Lat 18.39N 0.06 Lon 101.37W 0.05
Dep 67.8 3.6 Half-duration 2.2
Moment Tensor; Scale 10**17 Nm
Mrr= 1.33 0.07 Mtt=-1.52 0.12
Mff= 0.19 0.16 Mrt=-0.19 0.10
Mrf= 0.76 0.09 Mtf= 0.98 0.08
Principal Axes:
T Val= 1.73 Plg=60 Azm=281
N 0.31 28 121
P -2.04 9 26
Best Double Couple:Mo=1.9*10**17
NP1:Strike= 87 Dip=44 Slip= 47
NP2: 320 59 124

MRX 1.73 16 P 11 36.60 3.9X
ACX 2.10 123 P 11 38.70 0.7
III 2.15 80 P 11 41.70 2.8
MZX 6.79 320 P 12 45.40 1.1
ALQ 17.37 347 ePd 15 08.30 2.1
1.1s 66.46nm 4.7mb
eS 18 28.00
ANMO 17.37 347 P 15 09.00 2.8
1.2s 85.94nm 4.8mb
TUL 18.56 15 ePc 15 21.50 0.8
0.6s 28.60nm 4.6mb
(Lg) 21 17.80
GLA 19.05 324 eP 15 28.00 1.3
BAR 19.86 320 eP 15 36.00 0.2
PLM 20.44 321 eP 15 41.00 -1.1
PEC 21.00 322 P 15 48.00 0.4
0.8s 19.48nm 4.6mb
RVR 21.20 322 eP 15 50.00 0.4
MWC 21.76 321 eP 15 56.00 0.5
GSC 21.82 325 eP 15 57.00 1.1
GOL 21.83 352 P 15 56.20 0.0
SBB 21.95 322 eP 15 57.00 -0.2
ELC 22.09 27 P 15 57.50 -1.0
FVM 22.20 24 P 15 57.80 -1.8
MSU 22.36 338 P 16 02.90 1.4
CLC 22.63 325 eP 16 04.00 0.0
ABL 22.89 320 P 16 07.00 0.3
ISA 23.01 323 eP 16 08.00 0.3
GBTN 23.43 38 P 16 09.80 -1.9
TKL 23.68 39 P 16 12.00 -2.1
DAU 23.78 342 P 16 16.00 0.6
DUG 24.09 339 P 16 19.00 0.8
0.7s 9.49nm 4.4mb
TNP 24.15 329 P 16 19.80 0.9
1.0s 70.00nm 5.2mb
PRI 24.63 321 ePc 16 21.40 -2.0
FRI 24.66 324 ePc 16 23.70 0.2
e 16 37.70 58kmX
LHS 24.81 45 P 16 24.40 -0.6
LLA 25.11 321 eP 16 28.40 0.4
PRS 25.18 320 eP 16 28.80 0.2
KVN 25.34 329 P 16 31.20 0.9
SAO 25.51 321 e(P) 16 32.90 1.2
BW06 25.56 347 P 16 32.30 0.0
1.0s 33.33nm 4.9mb
CMB 25.78 324 ePc 16 34.30 0.1

ARN	25.96	322	P	16	36.50	0.7
MHC	26.02	322	ePc	16	37.00	0.5
GCC	26.02	321	ePc	16	38.10	1.7
RSSD	26.09	356	P	16	36.40	-0.8
			e	16	46.30	36km
BLA	26.73	40	P	16	40.50	-2.5
ORV	27.47	325	eP	16	50.20	0.5
CLE	29.07	32	iP	17	15.10	11.1X
LRM	29.12	344	ePc	17	04.30	-0.5
SDV	31.51	103	eP	17	27.70	1.6
TOV	32.00	101	eP	17	31.20	0.9
NEW	32.67	341	P	17	35.00	-0.8
	0.8s	16.67nm			5.0mb	
SES	33.15	349	eP	17	39.00	-0.9
PNT	34.40	339	eP	17	50.00	-0.8
	0.6s	20.00nm			5.2mb	
RSNY	34.88	35	P	17	52.80	-2.1
	0.9s	15.49nm			4.9mb	
FFC	36.63	360	ePd	18	08.10	-1.4
	0.8s	28.00nm			5.2mb	
NNA	38.62	139	eP	18	32.00	5.2X
	1.1s	20.25nm			4.8mb	
Z	20s	0.35um			4.2Msz	
YKA	45.32	352	eP	19	18.70	-2.3
	0.7s	6.00nm			4.6mb	
SCH	45.38	28	eP	19	20.00	-1.5
ARE	45.38	137	eP	19	24.00	1.7
ZOBO	47.49	134	Pc	19	39.10	-0.2
Z	20s	1.14um			4.8Msz	
		S		26	40.00	
		LR		35	26.00	
LPB	47.69	134	P	19	40.00	-0.7
Z	21s	2.51um			5.2Msz	
		LR		35	32.00	
CNCB	47.96	134	iPc	19	43.00	0.0
		i		21	12.00	457kmX
CCH	49.62	133	P	19	54.10	-1.4
FRB	50.96	18	eP	20	03.00	-1.7
SIV	52.39	128	iPc	20	15.30	-0.9
TOA	53.78	336	ePc	20	26.60	0.6
INK	54.11	346	ePd	20	26.50	-1.7
	0.6s	43.00nm			5.7mb	
PMR	54.69	334	ePc	20	32.00	-0.5
	0.6s	40.00nm			5.6mb	
FBA	55.97	338	ePc	20	40.70	-1.1
	1.2s	22.80nm			5.1mb	
SVW	57.25	332	ePc	20	49.80	-1.2
		e		20	59.50	32km
TTA	58.16	334	ePc	20	55.90	-1.5
	0.6s	16.70nm			5.3mb	
IMA	58.67	338	ePc	20	59.20	-1.8
	0.7s	4.40nm			4.7mb	
MBC	58.96	355	ePd	21	02.50	-0.2
	1.0s	34.00nm			5.4mb	
LNV	59.21	151	iPd	21	04.50	-0.4
FCH	59.22	149	eP	21	05.50	0.0
BAO	62.60	119	ePc	21	18.40	-10.0X
PPD	63.37	127	eP	21	32.20	-1.1
SOB1	65.84	109	eP	21	51.20	1.8
		e		22	01.10	32km
PDCR	68.80	112	eP	22	07.60	-0.5
		e		22	17.50	32km
DAG	70.95	14	eP	22	20.00	-0.3
	0.8s	10.45nm			5.0mb	
STS	80.20	48	eP	23	23.50	10.1X
EMON	80.91	47	eP	23	27.50	10.3X
EPLA	82.78	50	eP	23	29.20	2.2
GRR	83.68	41	eP	23	31.90	0.5
	1.1s	34.20nm			5.4mb	
LPF	83.69	42	eP	23	31.70	0.3
	1.1s	34.20nm			5.4mb	
AVE	83.77	57	iPd	23	33.00	0.9
		i		23	44.00	35km
FLN	83.79	41	eP	23	32.40	0.5
	0.8s	38.95nm			5.6mb	
Z	20s	0.68um			5.0Msz	
GUD	84.00	49	eP	23	35.00	1.7
LDF	84.07	41	eP	23	33.90	0.6
	1.0s	38.00nm			5.5mb	
EJIF	84.34	54	eP	23	48.30	13.4X
ECRI	84.53	47	eP	23	40.00	4.2X
MFF	84.76	43	eP	23	37.20	0.4
NB2	84.93	27	P	23	38.20	0.8
	0.7s	6.80nm			5.0mb	
KEV	85.34	16	eP	23	42.00	2.7
ECOG	85.52	52	eP	23	42.60	1.6
IFR	85.52	56	iPd	23	42.50	1.3
			i	23	52.50	31km
			i	23	59.00	
AFC	85.54	52	eP	23	43.20	2.0
EVIA	85.86	51	eP	23	43.90	1.3
LFF	85.93	44	eP	23	42.90	0.2
	1.0s	30.00nm			5.5mb	
LSF	85.96	43	eP	23	42.70	-0.2
	0.8s	34.90nm			5.6mb	
RJF	86.31	44	eP	23	44.90	0.3
	0.9s	29.50nm			5.5mb	
Z	20s	0.70um			5.1Msz	
LPO	86.32	44	eP	23	44.70	0.1
EPF	86.35	46	eP	23	44.90	0.0
	1.3s	32.50nm			5.4mb	
TCF	86.39	42	eP	23	45.00	0.0
	0.8s	34.25nm			5.6mb	
HFS	86.44	27	eP	23	44.70	-0.2
	1.8s	78.30nm			5.6mb	
MAF	86.64	42	eP	23	46.30	0.1
	1.0s	48.00nm			5.7mb	
ECHE	86.65	50	eP	23	49.10	2.7
BGF	86.69	42	eP	23	46.40	0.0
	0.9s	30.30nm			5.5mb	
CAF	86.81	44	eP	23	46.90	-0.2
SOD	86.83	18	iP	23	46.00	-0.7
WTS	86.85	36	eP	23	50.00	3.0X
ENN	86.86	37	eP	23	46.50	-0.6
SSF	86.91	41	eP	23	47.40	-0.1
	1.0s	40.00nm			5.6mb	
AVF	86.92	42	eP	23	47.30	-0.2
	1.0s	18.00nm			5.3mb	
LOR	87.05	41	eP	23	48.10	-0.1
	0.8s	33.60nm			5.6mb	
Z	20s	0.70um			5.1Msz	
LBF	87.24	41	eP	23	49.00	-0.1
	1.0s	34.00nm			5.6mb	
SMF	87.29	42	eP	23	48.90	-0.4
	1.2s	28.25nm			5.4mb	
AIA	87.76	165	eP	23	51.50	0.5
UPP	88.26	26	iP	23	51.20	-2.5
MOX	90.15	36	eP	24	15.00	12.2X
KAF	90.23	22	eP	24	06.60	3.6X
CLL	90.58	35	eP	24	15.00	10.2X
NUR	90.67	23	iP	24	06.00	1.0
	0.7s	14.70nm			5.4mb	
		i		24	14.60	27km
BRG	91.31	35	iP	24	09.60	1.4
		i		24	18.10	26km
ZST	94.48	36	e(P)	24	26.30	3.5X
		e		24	34.00	24km
KIC	94.63	82	P	24	23.30	-0.8
KRA	94.96	33	eP	24	36.00	11.0X
	1.2s	41.00nm				
WRA	127.18	258	PKP	30	06.00	-2.1
	0.6s	10.20nm				
ASPA	128.00	254	ePKP	30	07.80	-1.8
	0.6s	6.90nm				
NNT	142.95	324	ePKP	30	33.00	-4.5X
HYB	144.78	360	iPKPc	30	38.40	-2.2
	0.8s	30.70nm				
		e		30	48.50	
IPM	148.26	313	ePKPc	30	50.00	3.6X
GBA	148.56	2	PKPc	30	44.20	-2.6
	0.7s	1.40nm				
KOD	151.91	2	ePKP	30	58.70	6.4X

S.D. = 1.2 on 113 of 130 obs.

? JAN 14, 1991 21h 26m 56.53± 3.27s
44.623 N ±30.2km 19.755 E ±30.2km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.9 (TTG).

BEO	0.54	68	iPg	27	07.20	-0.2
			iSg	27	16.40	
PLE	1.32	192	ePg	27	19.20	-1.8
			eSg	27	34.50	
IVA	1.75	177	ePg	27	26.50	-0.7
			eSg	27	48.00	
NKY	1.89	197	ePn	27	30.50	1.2
			eSn	27	55.50	
BRY	1.93	207	ePn	27	29.00	-0.9
			eSn	27	54.60	
PVY	2.03	175	ePn	27	32.00	0.7
			eSn	27	57.80	
TTG	2.22	189	ePn	27	35.60	1.7
			eSn	28	01.60	

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

JAN 14, 1991 21h 31m 53.93± 0.29s
46.546 N ± 2.9km 9.832 E ± 2.8km
DEPTH = 10.0km (geophysicist)
SWITZERLAND (544)
ML 3.3 (LDG), 3.2 (FUR), 3.0 (VIE). MD 3.1 (STR).

OSS	0.26	57	iPc	31	58.20	-1.3
VDL	0.26	257	iPc	31	57.60	-1.9
LLS	0.66	300	iPd	32	05.20	-2.0
MDI	0.77	186	Pc	32	08.40	-0.6
			eSg	32	20.70	
SAX	0.78	335	iPc	32	08.60	-0.7
OGA	0.88	68	iPgc	32	09.10	-1.9
VAI	1.00	228	Pd	32	13.00	0.1
			eSn	32	27.70	
SAL	1.06	153	Pc	32	14.00	0.2
			iSg	32	29.00	
SQTA	1.16	54	iPgd	32	14.10	-1.6
			iSg	32	31.40	
CTI	1.36	111	Pc	32	19.30	0.4
			eSg	32	38.00	
ZLA	1.36	314	iPd	32	19.50	0.5
SCE	1.38	68	eP	32	17.80	-1.6
MMK	1.39	250	iPd	32	17.20	-2.3
WATA	1.43	56	iPgd	32	19.50	-0.6
			iSg	32	40.40	
SLE	1.52	324	iP	32	23.40	2.1
ORX	1.58	235	P	32	18.00	-4.1X
ORO	1.58	235	P	32	22.60	0.4
			eSn	32	42.50	
DIX	1.74	255	iPc	32	24.70	0.1
BOB	1.80	189	P	32	25.00	-0.3
			eSn	32	48.30	
FEL	1.82	318	Pn	32	25.95	0.3
			Sg	32	52.75	
BBS	1.84	301	Pn	32	27.45	1.7
			Sg	32	53.76	
FUR	1.89	31	ePn	32	27.50	0.9
FVI	2.04	88	P	32	31.00	2.4
			eSn	32	56.50	
EMS	2.07	258	iPc	32	30.80	1.5
LSD	2.16	241	P	32	31.06	0.4
PCP	2.20	205	P	32	33.21	2.1
LOMF	2.21	292	Pn	32	31.75	0.5
			Sg	33	06.16	
MOF	2.26	306	Pn	32	32.31	0.4
RSP	2.28	233	P	32	32.39	0.1
CKI	2.39	208	P	32	35.00	1.3
LPG	2.39	245	Pn	32	34.60	0.6
LPL	2.39	246	Pn	32	34.80	0.8
BSF	2.44	303	Pn	32	34.80	0.3
			Pg	32	41.80	
ECH	2.47	314	Pn	32	34.94	0.1
KBA	2.47	76	iPgc	32	38.20	3.2X
			iSg	33	11.10	
BHB	2.48	227	P	32	32.66	-2.3
WLS	2.51	319	Pn	32	35.82	0.3
			Pg	32	42.79	
BDI	2.54	167	P	32	36.00	0.0
			eSg	33	04.50	
CDF	2.55	318	Pn	32	35.96	-0.1
FIN	2.60	207	P	32	37.72	0.9
ROB	2.64	212	P	32	37.11	-0.3
BNI	2.67	237	P	32	39.00	1.2
RRL	2.68	234	P	32	38.44	0.3
HAU	2.79	303	Pn	32	39.60	0.2
			Pg	32	48.40	
			Sg	33	23.60	
PZZ	2.80	224	P	32	36.29	-3.5X
GWF	2.85	329	Pg	32	48.92	8.6X
			Sg	33	28.00	
ENR	2.88	217	P	32	39.66	-1.1
STV	2.90	218	P	32	39.00	-2.1
IMI	2.97	208	P	32	44.39	2.3
VITF	3.10	304	Pn	32	44.64	0.9
SBF	3.17	213	Pn	32	44.40	-0.5
			Sn	33	21.60	
GRF	3.28	16	e(Pn)	32	47.30	0.9
			e(Pg)	32	55.80	
			e(Sg)	33	39.20	
KHC	3.61	43	Pn	32	52.30	1.2
			Pg	32	58.50	
			e	33	02.50	
			Sn	33	33.60	

14d 21h

		Sg	33 47.50		
FRF	3.74	218 Pn	32 52.60	-0.4	
LRG	3.95	220 Pn	32 56.00	0.1	
LMR	3.98	217 Pn	32 56.00	-0.3	
ASS	4.02	149 P	32 57.50	0.7	
LBF	4.05	278 Pn	32 57.40	0.1	
		Sg	34 01.20		
SMF	4.13	274 Pn	32 58.40	0.0	
LOR	4.16	282 Pn	32 58.80	0.0	
		Sn	33 45.00		
		Sg	34 04.40		
MOX	4.27	15 e(P)	33 17.00	16.6X	
SSF	4.37	279 Pn	33 02.00	0.1	
AVF	4.47	275 Pn	33 02.80	-0.4	
PRU	4.66	41 ePn	33 19.00	13.0X	
		e	33 22.00		
		eSg	34 19.50		
BGF	4.82	273 Pn	33 07.60	-0.6	
		Sn	34 00.40		
MAF	5.04	269 Pn	33 11.00	-0.3	
BRG	5.12	31 e(P)	33 28.00	15.6X	
		e	34 35.00		
TCF	5.28	270 Pn	33 13.50	-1.2	
CAF	5.67	256 Pn	33 18.60	-1.7	

S.D. = 1.1 on 62 of 69 obs.

JAN 14, 1991 22h 20m 40.57± 1.14s
45.091 N ± 9.9km 2.932 E ± 7.4km
DEPTH = 5.0km (geophysicist)
FRANCE (538)
MD 2.4 (STR). ML 2.2 (LDG).

LBL	0.26	57 Pg	20 44.90	-1.0	
		Sg	20 47.99		
CAF	0.64	255 Pg	20 53.00	-0.3	
		Sg	21 02.00		
PYM	0.66	5 Pg	20 53.05	-0.8	
		Sg	21 01.84		
PLDF	1.00	29 Pg	20 59.17	-0.9	
		Sg	21 11.86		
RJF	1.02	283 Pg	20 59.30	-1.1	
		Sg	21 14.60		
MAF	1.16	347 Pg	21 02.80	0.1	
		Sg	21 18.40		
TCF	1.30	337 Pg	21 05.00	-0.1	
		Sg	21 21.50		
LPO	1.31	252 Pg	21 06.00	0.8	
		Sg	21 22.40		
BGF	1.47	358 Pg	21 07.80	0.1	
		Sg	21 27.20		
SMF	1.68	22 Pg	21 11.20	0.5	
		Sg	21 32.00		
AVF	1.72	10 Pg	21 12.40	1.0	
		Sg	21 34.00		
LBF	2.03	21 Pg	21 17.60	1.8	
		Sg	21 42.60		
LOR	2.27	16 Pg	21 22.40	3.1X	
		Sg	21 50.40		

S.D. = 1.0 on 12 of 13 obs.

% JAN 14, 1991 23h 44m 37.69± 3.26s
4.166 N ±19.4km 76.912 W ±24.1km
DEPTH = 33.0km (normal)
COLOMBIA (103)
MD 2.8 (UVC).

CLMC	0.45	129 eP	44 48.03	0.3	
		eS	44 54.60		
ANCC	0.65	176 eP	44 50.18	-0.3	
BUGC	0.71	112 ePc	44 51.20	-0.1	
		eS	45 00.20		
HOQC	0.75	158 iPc	44 51.47	-0.6	
HOBC	0.80	76 eP	44 52.62	0.0	
		eS	45 02.70		
DIAC	1.12	141 eP	44 56.96	-0.4	
SALC	1.20	170 eP	44 58.77	0.3	
SILC	1.58	159 eP	45 04.64	0.6	

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

JAN 14, 1991 23h 46m 03.75± 0.41s
42.934 N ± 3.9km 12.727 E ± 4.0km
DEPTH = 21.3 ± 4.0 km
CENTRAL ITALY (381)
ML 3.6 (LDG), 3.1 (KBA). MD 3.5 (ROM), 3.5 (TRI).

ASS	0.14	341 Pd	46 08.00	-0.4	
		eSg	46 11.30		
MNS	0.55	184 Pd	46 14.70	0.0	
		eSg	46 24.50		
ARV	0.59	16 Pd	46 15.10	-0.2	
		eSg	46 26.50		
AQU	0.76	139 P	46 18.20	-0.1	
		eSg	46 29.60		
CRE	0.90	321 P	46 22.00	1.4	
		eSg	46 37.20		
RSM	1.01	349 P	46 25.00	2.6X	
		eSg	46 41.40		
AZI	1.08	151 P	46 25.40	1.9	
RMP	1.12	181 P	46 24.90	0.7	
		eSg	46 41.70		
RDP	1.17	180 P	46 26.20	1.2	
		eSg	46 43.70		
SFI	1.17	327 Pd	46 26.80	1.9	
		eSg	46 46.10		
MAO	1.27	247 P	46 29.30	3.0X	
FIR	1.36	309 ePn	46 28.00	0.4	
		iSn	46 50.00		
PII	1.79	297 P	46 37.00	3.3X	
DUI	1.81	134 P	46 34.50	0.4	
BDI	1.92	307 P	46 38.00	2.3	
MME	1.94	311 P	46 38.00	1.8	
RIY	2.69	26 ePn	46 45.80	-0.8	
		iSn	47 19.70		
HVAR	2.74	84 iPn	46 47.00	-0.3	
PGF	2.77	263 Pn	46 48.60	0.7	
TRI	2.87	15 e(Pn)	46 48.30	-0.9	
		e(Sn)	47 24.50		
		i(Sg)	47 40.10		
BOB	3.00	309 P	46 54.00	3.0X	
CEY	3.06	23 ePn	46 51.00	-0.9	
		eSn	47 29.90		
SAL	3.11	330 P	46 55.30	2.8X	
VBY	3.15	34 ePn	46 53.40	0.3	
		eSn	47 31.20		
CTI	3.21	346 P	46 55.50	1.4	
LJU	3.37	22 ePn	46 56.20	0.0	
		iSn	47 36.70		
CKI	3.55	296 P	47 00.80	1.9	
MDI	3.57	324 Pd	47 01.60	2.5	
FVI	3.66	1 P	47 02.70	2.3	
PTJ	3.76	37 ePn	47 00.50	-1.4	
		eSn	47 36.40		
SBF	3.97	285 Pn	47 04.00	-0.8	
		Sn	47 52.40		
VAI	4.08	317 P	47 07.50	1.2	
OGA	4.12	344 ePn	47 08.70	1.6	
KBA	4.17	6 iPnc	47 08.40	0.6	
		iSn	47 40.70		
SCE	4.17	350 ePn	47 09.00	1.2	
OSS	4.18	335 ePc	47 09.10	1.2	
VDL	4.24	328 ePc	47 09.40	0.5	
DOI	4.27	293 P	47 10.00	0.8	
SQTA	4.42	346 iPnc	47 13.10	1.8	
		i	48 00.20		
FRF	4.49	280 Pn	47 11.60	-0.6	
LMR	4.57	277 Pn	47 12.60	-0.7	
MMK	4.62	314 ePc	47 13.20	-1.1	
LRG	4.68	279 Pn	47 14.00	-1.0	
LLS	4.74	327 ePc	47 16.50	0.5	
BNI	4.85	298 P	47 19.00	1.5	
DIX	4.93	311 ePc	47 18.70	0.0	
SAX	4.94	332 ePc	47 19.80	1.1	
LPG	5.00	303 Pn	47 19.20	-0.5	
LPL	5.02	303 Pn	47 19.40	-0.5	
EMS	5.20	309 ePc	47 23.60	1.2	
ZLA	5.48	328 ePc	47 26.60	0.3	
SLE	5.68	330 ePc	47 28.10	-0.9	
VKA	5.90	24 eP	47 32.00	0.0	
		e(Sn)	48 37.50		
KHC	6.23	5 ePg	47 36.50	-0.2	
		Sg	48 45.00		
OHR	6.28	104 e(P)	47 37.50	-0.1	
BSF	6.44	322 Pn	47 37.40	-2.4	
		Sn	48 50.00		
CDF	6.68	327 Pn	47 41.30	-1.8	
		Sn	48 56.00		
HAU	6.77	321 Pn	47 42.80	-1.6	
		Sn	48 58.50		
GRF	6.84	352 e(Pn)	47 28.30	-17.0X	
		e(Pg)	48 04.50		
		e(Sg)	49 52.00		
SMF	7.33	303 Pn	47 50.80	-1.4	
LBF	7.41	306 Pn	47 51.20	-2.2	
LOR	7.62	308 Pn	47 54.20	-2.1	
AVF	7.69	303 Pn	47 55.40	-1.9	
BGF	7.91	301 Pn	47 59.20	-1.2	
CAF	7.95	288 Pn	47 59.00	-1.9	

S.D. = 1.3 on 59 of 65 obs.

? JAN 15, 1991 00h 21m 14.19±10.01s
15.796 S ±75.0km 178.120 E ±37.5km
DEPTH = 33.0km (normal)
FIJI ISLANDS (182)
MD 4.1 (SVA).

MBU	1.30	154 iP	21 35.60	-0.7	
		iS	21 50.70		
NDE	1.39	124 ePc	21 37.70	0.1	
SGE	1.79	186 eP	21 43.10	-0.3	
		S	22 01.70		
KRO	1.94	141 eP	21 45.60	0.1	
OVA	1.99	161 eP	21 46.30	0.1	
VUN	2.22	172 iP	21 49.60	0.2	
		iS	22 14.60		
SVA	2.33	172 eP	21 51.50	0.5	
		eS	22 14.70		

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

% JAN 15, 1991 01h 19m 00.86± 1.06s
2.853 N ± 6.0km 76.311 W ±10.4km
DEPTH = 10.0km (geophysicist)
COLOMBIA (103)
MD 2.6 (UVC).

SILC	0.17	190 eP	19 04.80	-0.1	
		eS	19 07.10		
SALC	0.40	287 eP	19 09.50	0.4	
		eS	19 15.20		
DIAC	0.45	15 eP	19 10.70	0.6	
		eS	19 17.50		
HOOC	0.69	332 eP	19 14.40	-0.3	
		eS	19 23.60		
ANCC	0.86	320 eP	19 17.70	0.2	
CLMC	1.05	346 eP	19 20.00	-0.8	
		eS	19 33.30		

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

JAN 15, 1991 01h 40m 50.83± 0.16s
23.168 S ± 3.9km 179.685 W ± 4.0km
DEPTH = 585.8km (11 depth phases)
5.5mb (51 obs.)
SOUTH OF FIJI ISLANDS (171)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 25C
Centroid Location:
Origin Time 01:41: 0.3 1.2
Lat 22.57S 0.13 Lon 179.94E 0.07
Dep 570.8 4.6 Half-duration 2.0
Moment Tensor; Scale 10**17 Nm
Mrr=-0.52 0.07 Mtt= 0.05 0.11
Mff= 0.47 0.11 Mrt=-0.06 0.10
Mrf=-1.28 0.10 Mtf=-0.02 0.10
Principal Axes:

T	Val= 1.35	Plg=34	Azm= 91
N	0.05	2	182
P	-1.40	55	275

Best Double Couple:Mo=1.4*10**17
NP1:Strike=173 Dip=11 Slip= -99
NP2: 2 79 -88

SVA	5.32	341 iPc	42 22.50	-3.4X	
		iS	43 39.60		
VUN	5.42	341 iPc	42 22.80	-4.0X	
SGE	5.99	338 ePd	42 29.80	-2.0	
		eS	43 55.00		
MBU	6.34	346 iPd	42 32.60	-2.3	
		iS	43 55.80		
AFI	11.87	40 eP	43 22.00	-6.4X	
		eS	45 24.00		
DZM	12.86	272 iPc	43 43.00	4.8X	
		iS	46 04.40		
		ScP	51 08.60		
HBZ	14.49	186 P	43 54.90	0.9	
	0.3s	42.00nm		5.3mb	
PUZ	14.96	186 P	43 58.90	0.3	
		S	46 32.00		
WLZ	15.18	194 P	44 03.30	2.6X	
TAZ	15.37	191 P	44 04.90	2.4	
NOZ	15.52	187 P	44 04.50	0.5	

			eS	46	43.00		FORR	46.80	249	iPc	48	30.10	-0.3	PV09	90.12	48	P	52	50.00	-0.5
WHH	16.00	191	P	44	08.50	-0.3	MTN	47.69	274	iPd	48	35.90	-1.5	ALQ	90.28	52	ePc	52	51.00	-0.2
MOH	16.14	189	eP	44	10.80	0.8		0.3s	101.00nm			5.8mb			1.0s	13.25nm			4.9mb	
PGZ	17.73	190	P	44	24.40	-0.9	WARB	48.58	255	iPd	48	43.00	-1.0				e	54	59.00	
MNG	17.87	192	P	44	25.30	-1.3	KNA	48.96	269	iPd	48	45.90	-0.9	ANMO	90.28	52	P	52	51.20	0.0
	0.2s	21.00nm			5.3mb			0.4s	280.00nm			6.1mb			1.0s	13.75nm			4.9mb	
			S	47	19.70		GUA	50.31	313	eP	48	55.30	-1.4	CD2	90.92	303	P	52	55.00	1.0
KIW	18.22	193	P	44	29.50	-0.4		0.9s	531.09nm			6.0mb		BTO	90.99	314	eP	52	55.00	0.8
			S	47	30.30		PJG	50.38	313	eP	48	55.70	-1.5	BW06	91.97	44	P	52	57.80	-1.0
MTW	18.39	192	P	44	30.50	-1.0	COOL	52.75	248	eP	49	13.30	-1.0		0.9s	6.78nm			4.7mb	
CAW	18.43	193	P	44	31.80	0.0		0.3s	13.00nm			4.8mb		LZH	93.15	308	iPd	53	05.00	0.7
WDW	18.59	193	eP	44	33.00	-0.4	VNDA	55.13	185	iPd	49	32.90	2.6		1.2s	47.00nm			5.4mb	
BLW	18.60	191	P	44	33.70	0.2	KLB	55.54	247	eP	49	33.10	-0.7	GOL	93.26	48	P	53	05.00	0.1
MRW	18.62	193	P	44	33.50	-0.1		0.5s	112.00nm			5.5mb			0.7s	4.25nm			4.6mb	
			eS	47	32.20		MEKA	55.68	253	iPd	49	33.70	-1.1				pP	55	14.00	592km
WEL	18.66	193	P	44	35.00	1.0		0.4s	18.00nm			4.8mb		RSSD	96.15	45	P	53	16.50	-1.3
			S	47	37.00		MBL	55.69	260	iPd	49	33.70	-1.3				pP	55	24.50	585km
MOW	18.69	192	P	44	34.00	-0.3		0.4s	46.00nm			5.2mb		NNA	96.86	106	eP	53	27.00	5.6X
TCW	18.70	194	P	44	34.10	-0.2	NWAO	55.80	245	iPd	49	35.30	-0.3		1.1s	20.25nm			5.4mb	
CCW	19.22	194	eP	44	40.80	1.6		0.5s	36.00nm			5.0mb		GTA	97.45	310	eP	53	28.60	4.9X
THZ	19.55	197	P	44	42.30	-0.1	BAL	56.57	248	eP	49	40.00	-0.9		0.8s	10.00nm			5.2mb	
			S	47	46.40		MUN	56.79	246	eP	49	41.90	-0.5	YKA	99.58	25	eP	53	32.00	-0.5
KHZ	20.01	195	P	44	45.60	-0.8		0.9s	153.00nm			5.3mb			0.5s	0.20nm			3.8mb	X
	0.2s	48.00nm			5.8mb		MRWA	57.41	249	iPd	49	47.30	0.7	GUN	104.19	294	Pdiff	53	59.00	4.6X
			S	47	53.60			0.5s	25.00nm			4.7mb		PKI	104.48	294	Pdiff	54	00.00	4.4X
LTZ	20.67	197	P	44	51.00	-1.6	PGP	68.56	296	eP	50	55.20	-2.7	KKN	104.65	294	Pdiff	54	00.20	3.9X
			eS	48	04.30		SSE	78.23	311	P	51	51.50	-0.5	DMN	104.74	294	Pdiff	54	01.10	4.4X
MOZ	21.44	195	eP	44	58.50	-1.0		1.0s	120.00nm			5.3mb		GKN	105.26	294	Pdiff	54	02.80	3.9X
MMCZ	23.62	200	P	45	17.70	-1.6	KGM	78.86	277	ePd	51	57.30	1.6	GKN	105.26	294	PKP	58	08.00	-1.5
MHZ	23.63	200	P	45	17.70	-1.6	NJ2	80.40	311	iPc	52	04.00	0.7	GBA	106.91	278	PKP	58	28.00	15.4X
HNR	23.80	302	eP	45	18.00	-3.0X		4.0s	400.00nm			5.2mb	X	MAIO	127.70	299	ePKP	58	53.00	1.0
BRS	25.23	255	iPc	45	34.00	0.4	PRS	80.82	44	eP	52	06.10	0.7				e	58	56.00	
COO	26.36	248	iPd	45	44.00	0.6	GCC	80.84	43	eP	52	05.90	0.4	SOB1	128.41	124	ePKP	58	55.80	1.9
	0.6s	79.00nm			5.5mb		PCC	80.89	43	e(P)	52	06.20	0.5	BUL	128.86	215	iPKPd	58	59.00	4.3X
			e	51	38.00		SAO	81.03	44	eP	52	07.00	0.5				i	01	27.50	
TBI	27.75	96	iP	45	55.40	-0.1				epP	54	11.90	587km	LSZ	133.06	218	iPKP	59	03.60	0.8
	0.9s	170.00nm			5.7mb		PRI	81.16	45	ePc	52	08.30	1.0				i	01	39.00	
AFR	28.56	84	iP	46	01.20	-1.4				epP	54	12.40	582km	NUR	139.01	342	ePKP	59	06.00	-6.4X
	1.0s	220.00nm			5.7mb		BRK	81.20	42	ePc	52	07.90	0.6				i	59	14.00	
PAE	28.71	85	iP	46	02.50	-1.4				epP	54	12.90	587km	UPP	141.36	346	iPKP	59	10.20	-6.4X
	1.0s	130.00nm			5.5mb		BKS	81.22	42	eP	52	07.90	0.5	NB2	141.40	352	PKP	59	11.00	-5.8X
PPT	28.74	84	iP	46	02.70	-1.4		0.8s	41.00nm			5.0mb			0.8s	14.30nm				
	1.0s	255.00nm			5.8mb		MHC	81.26	43	ePc	52	08.60	0.8	APO	141.46	349	ePKP	59	12.00	-4.8X
RMO	28.80	257	iPd	46	05.60	1.0	LLA	81.26	44	eP	52	08.00	0.3		0.4s	28.90nm				
	0.5s	87.00nm			5.6mb		MWC	81.76	47	eP	52	11.00	0.6	UOSK	141.76	283	iPKPc	59	17.00	-1.5
			i	46	18.70		MDJ	81.82	326	Pd	52	10.50	0.3	LWI	142.48	231	iPKP-	59	19.00	-1.2
			i	47	37.00			1.2s	100.00nm			5.2mb		SHBJ	145.93	294	PKPd	59	28.20	2.9X
			i	48	56.70		PLM	82.08	49	eP	52	13.00	0.9	MUD	146.12	351	iPKPd	59	26.80	2.1
PPN	28.88	84	iP	46	03.90	-1.4	PEC	82.18	48	P	52	12.50	0.1		1.0s	24.00nm				
	1.0s	95.00nm			5.4mb		SBB	82.18	47	eP	52	13.00	0.6	EDR	146.22	3	ePKP	59	26.20	1.3
TVO	28.98	85	iP	46	04.80	-1.5	FRI	82.28	44	ePc	52	13.00	0.3		0.7s	40.00nm				
	1.0s	170.00nm			5.6mb					epP	54	18.80	590km	BSD	146.29	345	iPKPc	59	28.30	3.3X
CNB	29.47	239	iPc	46	12.00	1.6	ISA	82.31	46	eP	52	13.00	0.0		0.9s	37.00nm				
	0.9s	178.00nm			5.7mb		CMB	82.47	43	iPc	52	14.00	0.3	COP	146.31	348	iPKPc	59	27.90	2.9X
			e	50	29.00					epP	54	18.60	582km		0.7s	35.62nm				
			i	51	48.60		ORV	82.71	41	ePc	52	15.20	0.4	EDU	146.57	3	ePKP	59	27.20	1.7
PMO	31.07	81	iP	46	22.90	-1.0				epP	54	20.50	586km	CSTJ	146.81	292	PKPd	59	30.46	3.7X
	1.0s	240.00nm			5.8mb		WDC	82.71	40	iPc	52	15.50	0.7	EBH	146.84	4	ePKP	59	28.40	2.5X
VAH	31.23	81	iP	46	24.00	-1.3				ipP	54	21.00	587km		0.8s	49.00nm				
	1.0s	180.00nm			5.7mb		WHN	82.79	307	Pd	52	18.00	2.6X	WAJH	146.99	283	iPKPd	59	32.00	4.9X
TPT	31.32	81	iP	46	25.20	-0.9		1.0s	40.00nm			4.9mb		MDSJ	147.12	293	PKPd	59	31.23	4.0X
	1.0s	485.00nm			6.1mb		CLC	82.98	46	eP	52	16.00	-0.3	GHZJ	147.15	291	PKPd	59	31.39	4.0X
RUV	31.47	81	iP	46	26.30	-1.0	MIN	83.13	41	eP	52	17.40	0.3	EDI	147.18	4	ePKP	59	29.10	2.7X
	1.0s	425.00nm			6.0mb		GSC	83.22	47	eP	52	18.00	0.4	ESY	147.22	3	ePKP	59	29.10	2.6X
CMS	31.64	247	iPd	46	29.70	1.1	GLA	83.34	50	eP	52	19.00	0.8		0.8s	46.00nm				
	0.5s	87.00nm			5.6mb		CN2	83.47	323	iPd	52	18.50	0.0	EAU	147.24	4	ePKP	59	29.60	3.0X
			e	51	06.00			3.0s	300.00nm			5.3mb			0.9s	89.00nm				
TOO	33.09	236	eP	46	42.00	1.2				epP	54	20.00	562kmX	JARJ	147.31	294	PKPd	59	31.49	4.0X
	0.6s	210.00nm			5.9mb		TIA	83.94	313	eP	52	21.10	0.1	BHL	147.31	297	PKP	59	31.00	3.5X
			i	47	19.50		TNP	84.52	45	P	52	23.80	-0.3	EBL	147.34	4	ePKP	59	29.90	3.2X
			e	49	08.00			0.8s	11.03nm			4.5mb		QTRJ	147.35	292	PKPd	59	31.78	4.1X
PMG	34.54	288	iPd	46	52.00	-1.0				pP	54	30.00	587km	SHMJ	147.40	295	(PKP)	59	32.83	5.2X
BFD	35.27	238	iPd	47	03.30	4.4X	GYA	86.62	300	iPd	52	34.80	0.5	BURJ	147.43	294	(PKP)	59	32.08	4.3X
			i	49	17.50		BJI	86.70	316	eP	52	34.50	0.3	AYN	147.52	288	iPKPd	59	33.30	5.5X
OIS	37.79	266	iPd	47	18.90	-0.8		2.0s	160.00nm			5.4mb		SALJ	147.55	294	PKPd	59	32.19	4.3X
	0.4s	35.00nm			5.3mb		NST	87.35	288	eP	52	44.00	6.3X	MASJ	147.56	293	PKPd	59	32.14	4.2X
			e	52	30.00		TIY	87.91	313	iPd	52	42.00	2.0	KFNJ	147.58	293	(PKP)	59	32.22	4.4X
ADE	37.97	242	iPd	47	21.20	0.1		1.0s	100.00nm			5.6mb		MKRJ	147.64	293	PKPd	59	32.27	4.2X
	0.4s	177.97nm			6.0mb		XAN	88.52	308	Pd	52	44.00	1.1	EKA	147.77	4	PKPc	59	31.80	4.4X
RKT	40.99	99	iP	47	45.60	0.2	BDT	88.99	289	eP	52	47.50	2.2X		0.7s	15.90nm				
	1.0s	70.00nm			5.1mb			1.0s	89.70nm			5.7mb		LISJ	147.81	292	PKPd	59	32.79	4.6X
ASPA	42.45	260	iPd	47	56.00	-1.0	CHG	89.69	291	iPd	52	50.50	2.0	BBTK	147.95	309	ePKP	59	33.00	4.6X
	0.6s	331.40nm			6.0mb			0.9s	100.63nm			5.7mb		BADA	148.40	287	iPKPd	59	35.40	6.2X
Z	21s	0.40um			4.3Msz		PNT	89.73	35	eP	52	48.00	-0.1	RMN	148.61	291	iPKPd	59	34.60	4.9X
			iS	53	28.30			0.7s	10.00nm			4.9mb		VRI	148.85	323	ePKPd	59	38.50	9.1X
WRA	42.75	265	P	47	58.00	-1.4	HHC	90.11	315	P	52	50.30	0.2	CSS	148.98	300	ePKP	59	34.50	4.5X
	0.6s	154.70nm			5.7mb					pP	54	57.00	581km	KRA	149.07	335	iPKPd	59	34.10	4.5X

15d 01h

	1.1s	86.00nm				
		e	59	51.50		
BMR	149.33	329	ePKPc	59	36.00	5.9X
KSP	149.71	340	ePKP	59	31.00	0.5
	0.8s	80.00nm				
		id	59	36.70		
		i	59	44.00		
		e	01	54.00		
WIT	150.01	352	ePKP	59	33.00	2.1
CMP	150.15	324	ePKPc	59	35.00	3.6X
CLL	150.24	344	iPKP	59	37.70	6.4X
	1.1s	115.00nm				
		e	59	45.00		
		pPKP	01	51.00		
TNR	150.31	325	ePKPc	59	33.00	1.4
BRG	150.38	342	iPKPd	59	37.80	6.3X
		i	59	43.00		
		i	59	46.10		
		e	01	52.00		
BCK	150.39	306	ePKP	59	34.00	1.9
PSZ	150.78	333	ePKP	59	38.40	6.1X
DST	150.96	311	ePKP	59	38.50	5.6X
PRU	151.00	341	iPKPd	59	39.00	6.5X
	1.1s	33.60nm				
		e	59	49.40		
		e	01	54.00		
ELL	151.14	305	iPKP	59	39.70	6.4X
MOX	151.19	345	ePKP	59	33.00	0.2
SRO	151.51	334	iPKP	59	39.80	6.5X
		i	59	50.80		
ZST	151.67	336	ePKP	59	33.70	0.2
		i	59	41.20		
		i	59	52.60		
		e	01	58.70		
VKA	151.90	337	ePKP	59	35.00	1.1
		i	59	54.40		
ENN	152.11	352	ePKP	59	41.50	7.5X
	0.9s	19.00nm				
		e	59	53.00		
GRF	152.17	345	ePKP	59	34.10	-0.1
		id	59	42.00		
		e	59	54.40		
DHLJ	152.19	292	PKPd	59	32.72	-2.0
SOTA	154.45	343	i(PKP)	59	34.50	-3.0X
	0.9s	20.90nm				
		i	59	45.60		
		i	00	04.10		
LIC	162.39	162	PKPc	59	48.32	1.0
KIC	162.59	163	PKPc	59	48.42	0.8
	1.1s	28.00nm				
TIC	162.79	162	PKP	59	48.64	0.8

S.D. = 1.1 on 131 of 195 obs.

JAN 15, 1991 01h 45m 31.24± 0.40s
6.808 N ± 5.9km 72.992 W ± 6.3km
DEPTH = 158.8km (3 depth phases)
4.5mb (5 obs.)
NORTHERN COLOMBIA (99)

HOBC	3.97	232	iPd	46	31.27	-0.8
BUGC	4.35	228	iPc	46	36.84	-0.3
CLMC	4.59	231	eP	46	40.54	0.2
DIAC	4.73	223	ePc	46	42.05	-0.2
HOOC	4.91	228	eP	46	43.31	-1.4
ANCC	5.06	230	eP	46	45.95	-0.5
		eS	47	32.50		
SILC	5.28	219	eP	46	50.67	0.9
SALC	5.30	224	ePc	46	49.54	-0.3
PURC	5.58	217	ePc	46	54.37	0.5
CAYA	8.33	217	eP	47	31.00	0.3
COTA	8.35	220	eP	47	32.50	1.6
VC1	9.16	216	eP	47	42.00	0.4
ZOBO	23.43	168	P	50	27.90	0.0
		i	51	01.00	168km	
LPB	23.69	168	P	50	30.00	-0.2
		i	51	00.00	149km	
CNCB	23.98	168	P	50	33.00	-0.2
		i	51	05.00	160km	
CCH	24.97	164	P	50	40.60	-1.5
SIV	25.54	153	P	50	46.70	-0.4
		i	51	21.60	173kmX	
PPD	35.68	144	eP	52	15.80	-0.3
		e	52	16.40	2kmX	
TUL	35.72	327	eP	52	14.40	-1.8
	0.6s	4.80nm			4.4mb	
SOB1	35.72	116	eP	52	19.10	2.5
GOL	43.79	323	P	53	23.30	0.2
SBB	49.68	310	eP	54	13.00	4.0X
CLC	49.97	312	eP	54	16.00	4.8X
ISA	50.56	311	eP	54	18.00	2.3
YKA	63.32	340	eP	55	44.20	-0.9
	0.5s	1.90nm			4.3mb	
LIC	67.48	86	P	56	11.50	-1.0
	0.6s	6.00nm			4.6mb	
KIC	67.75	86	P	56	13.30	-1.0
	0.6s	6.00nm			4.6mb	
INK	73.08	340	eP	56	45.50	0.1
MBC	73.84	350	eP	56	50.00	0.4
BCAO	90.99	85	iPd	58	20.10	0.9
	0.5s	18.00nm			5.4mb	
		id	59	39.20	334kmX	
		ic	59	49.00		
		ic	00	06.70		
		ic	03	42.10		
LWI	101.97	91	ePdiff	59	18.30	8.9X
OIS	145.60	243	iPKPd	04	53.10	0.1
ASPA	149.21	234	ePKP	05	02.50	3.8X
	0.7s	19.50nm				
WRA	150.44	241	PKP	05	01.00	0.4
	0.5s	13.60nm				

S.D. = 1.0 on 30 of 34 obs.

% JAN 15, 1991 02h 41m 34.39± 1.08s
33.899 S ±12.0km 71.301 W ± 8.0km
DEPTH = 33.0km (normal)
NEAR COAST OF CENTRAL CHILE (135)

LNV	0.11	238	iPc	41	40.30	0.1
		i$	41	45.00		
TACH	0.39	51	iPd	41	43.90	0.5
		i$	41	52.00		
LCCH	0.48	332	iP	41	44.50	-0.2
		i$	41	53.10		
SAN	0.69	50	iP	41	47.90	0.1
		i$	41	59.20		
PCH	0.71	67	iPd	41	47.70	-0.4
		i$	41	59.00		
ROCH	0.96	15	iPc	41	51.80	0.1
		i$	42	06.40		
FCH	1.02	56	iPd	41	52.40	-0.3
		i$	42	07.50		

S.D. = 0.4 on 7 of 7 obs.

JAN 15, 1991 04h 00m 17.81± 1.09s
7.180 S ± 7.1km 149.219 E ± 5.7km
DEPTH = 48.9 ± 9.9 km
5.1mb (12 obs.) 3.8Msz (1 obs.)
NEW BRITAIN REGION (192)

PMG	3.01	223	iPc	01	05.20	1.0
YYYY	3.36	286	eP	01	10.00	0.7
SVO	10.67	101	eP	02	50.00	-0.9
HNR	10.85	103	eP	02	55.00	1.6
RMQ	19.21	181	eP	04	40.00	-0.8
KNA	21.76	245	eP	05	07.00	-0.2
	0.4s	19.00nm			4.9mb	
ASPA	22.02	220	iPd	05	09.60	-0.3
	0.4s	39.10nm			5.2mb	
	Z 20s	0.40um			3.8Msz	
		iS	09	10.50		
DZM	22.25	134	iPc	05	11.00	-1.2
COO	23.41	174	e(P)	05	21.00	-2.4
MNI	25.79	288	ePd	05	45.50	-0.7
WARB	28.63	226	iPc	06	19.00	7.0X
FORR	30.75	217	eP	06	30.00	-0.8
	0.4s	26.00nm			5.3mb	
MEKA	34.99	233	iPc	07	08.20	0.5
	0.4s	11.00nm			5.1mb	
KLB	38.09	226	eP	07	33.50	-0.3
		e	07	44.00		
MRWA	38.19	231	eP	07	36.00	1.3
	0.6s	5.00nm			4.6mb	
MUN	39.41	227	eP	07	45.00	0.2
PPI	49.14	276	eP	09	03.00	-0.1
NST	53.65	295	eP	09	41.50	4.5X
CHG	55.88	298	eP	09	53.50	0.1
XAN	56.00	320	P	09	52.00	-2.0
TIY	56.32	325	eP	09	56.40	0.2
CD2	57.68	314	P	10	04.80	-1.1
LZH	60.54	319	eP	10	25.00	-0.8
	1.5s	45.00nm			5.4mb	
GTA	65.06	320	eP	10	55.00	-0.7
	0.8s	10.00nm			4.9mb	
GUN	70.35	303	P	11	29.20	-0.2
PKI	70.63	302	P	11	30.80	-0.3
KKN	70.81	303	P	11	31.60	-0.4
	0.8s	27.00nm			5.2mb	
DMN	70.90	302	P	11	32.40	-0.2
GKN	71.42	303	P	11	35.00	-0.6
	0.7s	32.00nm			5.4mb	
KOD	73.51	283	eP	11	49.90	1.7
HYB	73.94	290	iPd	11	50.10	-0.2
	1.0s	25.00nm			5.1mb	
		e	12	00.80		
GBA	74.18	286	Pd	11	52.10	0.4
	1.0s	8.70nm			4.6mb	
WMQ	75.12	319	P	11	56.70	-0.1
POO	78.55	291	iPc	12	16.60	0.3
FBA	85.41	22	P	12	50.00	-1.0
INK	91.94	21	eP	13	22.00	0.0
MAIO	93.98	306	eP	13	31.00	-1.1
TNP	97.18	53	P	13	47.60	0.7
YKA	99.18	28	eP	13	54.70	-0.3
	1.1s	2.30nm			4.6mb	
APO	117.16	337	ePKP	18	57.80	-1.1
	0.4s	1.50nm				
BRG	122.87	328	i(PKP)	19	11.00	0.9
	1.7s	28.00nm				
BCAO	130.88	270	ePKPc	19	28.00	1.4
	0.6s	3.00nm				
CCH	137.38	125	PKP	19	40.40	1.2
SIV	142.19	128	PKP	19	43.70	-3.9X
IFR	144.64	321	iPKPc	19	51.50	0.0
PPD	144.68	146	ePKP	19	50.50	-1.2
		e	20	01.10		
AVE	146.17	323	iPKP	19	55.50	1.7
TIO	147.71	320	iPKP	19	59.50	2.9
SHGH	149.44	270	ePKP	20	04.50	4.9X
LEGH	149.56	269	ePKP	20	05.00	5.3X
KOGH	149.65	270	ePKP	20	05.00	5.1X
WEGH	149.70	269	ePKP	20	05.00	5.0X
KUK	149.78	270	ePKP	20	05.50	5.4X
BAO	151.64	143	ePKPc	20	04.20	1.3
KIC	154.13	270	PKP	20	15.20	8.8X
LIC	154.41	269	PKP	20	15.80	9.1X
TIC	154.42	270	PKP	20	15.90	9.1X
PDCR	158.74	157	ePKP	20	13.30	1.2
SOB1	160.85	148	(PKP)	20	18.00	3.5X
		e	20	59.10		

S.D. = 1.1 on 47 of 59 obs.

JAN 15, 1991 05h 52m 05.44± 0.54s
41.444 N ± 5.7km 142.107 E ± 6.7km
DEPTH = 72.7 ± 5.6 km
4.7mb (27 obs.)
HOKKAIDO, JAPAN REGION (224)

MRRJ	1.25	322	iPd	52	26.20	-1.3
		S	52	42.00		
HOOJ	1.29	43	iP+	52	28.40	0.4
		eS	52	45.30		
AOMJ	1.58	237	iPd	52	31.90	-0.1
OFUJ	2.39	188	P	52	42.70	-0.3
		eS	53	12.70		
KUSJ	2.54	49	iPd	52	44.00	-1.2
		S	53	12.60		
ASAJ	2.70	8	P	52	47.80	0.4
		eS	53	20.90		
NIIJ	4.84	211	P	53	18.30	0.9
KAKJ	5.44	197	P	53	24.30	-1.5
MTMJ	5.90	216	eP	53	33.70	1.5
CHJJ	5.91	205	P	53	32.80	0.4
IIDJ	6.80	210	eP	53	46.90	2.2
MDJ	9.70	293	eP	54	26.50	2.1
BJI	19.68	275	eP	56	29.00	-2.2
	1.0s	18.00nm			4.3mb	
SSE	19.73	245	P	56	31.00	-0.7
TIY	23.12	271	eP	57	03.30	-2.5
GYA	32.73	254	P	58	32.00	-1.3
WMQ	39.50	292	P	59	30.60	0.2
	0.5s	20.00nm			5.3mb	
SVW	41.73	40	eP	59	47.90	-0.6
IMA	42.66	33	eP	59	56.40	0.3
	0.9s	6.10nm			4.4mb	
PMR	44.82	39	eP	00	11.20	-2.2
FBA	45.13	34	eP	00	17.10	1.3
	0.8s	9.50nm			4.7mb	
TOA	46.15	38	eP	00	25.80	1.8
GUN	47.40	272	P	00	34.70	0.0
	0.9s	69.00nm			5.6mb	
KKN	47.91	272	P	00	38.50	0.0

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        0.8s     32.00nm          5.3mb
PKI    47.93 272 P       00 38.62  -0.2
        0.8s     12.00nm          4.9mb
DMN    48.14 272 P       00 40.34   0.0
        0.9s     21.00nm          5.1mb
GKN    48.28 273 P       00 41.06  -0.3
        0.7s     25.00nm          5.3mb
INK    50.24  29 ePc     00 55.70   0.1
MBC    52.16  17 eP      01 10.00   0.0
        1.0s      5.00nm          4.5mb
YKA    59.75  32 eP      02 03.50  -1.0
        0.5s      0.50nm          3.9mb
DAG    61.44 355 iPc     02 14.60  -1.3
        0.7s      6.16nm          4.8mb
WRA    61.50 188 P       02 15.00  -1.8
        1.0s      3.50nm          4.4mb
GBA    62.17 264 Pd      02 20.70  -0.8
        0.7s      4.70nm          4.7mb
KAF    64.65 332 eP      02 36.40  -0.8
NUR    66.33 331 eP      02 47.00  -0.9
APO    69.91 336 eP      03 11.30   1.1
        0.4s      2.00nm          4.4mb
NB2    70.34 337 PKP     03 11.90  -0.9
        0.8s      4.20nm          4.4mb
FRB    72.37  14 ePc     03 23.50  -1.3
LOR    84.21 333 eP      04 30.10   0.2
        0.9s      4.90nm          4.5mb
SSF    84.51 333 eP      04 31.70   0.4
        0.6s      1.80nm          4.3mb
LPL    84.68 330 eP      04 33.20   0.7
        0.7s      3.85nm          4.5mb
LPG    84.69 330 eP      04 33.30   0.7
        0.7s      7.70nm          4.8mb
SMF    84.76 333 eP      04 33.00   0.4
        0.8s      8.75nm          4.8mb
AVF    84.80 333 eP      04 33.20   0.4
        1.0s      7.00nm          4.7mb
MAF    85.56 333 eP      04 37.70   1.1
        0.8s      8.05nm          4.8mb
LSF    85.88 334 eP      04 38.90   0.7
        0.7s      7.70nm          4.9mb
MFF    86.12 335 eP      04 40.20   0.8
RJF    86.72 333 eP      04 43.40   1.1
CAF    86.87 333 eP      04 44.50   1.4
        0.7s      7.15nm          4.9mb
LFF    87.30 334 eP      04 46.40   1.3
        0.7s      4.40nm          4.7mb
LPO    87.38 333 eP      04 46.70   1.2
        0.8s      8.05nm          4.9mb
SIV   147.70  45 PKP     11 44.70   4.1X
     S.D. = 1.2  on  51 of  52 obs.
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&  JAN  15, 1991  06h 02m 45.75s
   58.762 N          154.378 W
   DEPTH = 101.3km
   2.9mb (  1 obs.)
 ALASKA PENINSULA                ( 12)
     <AEIC>.

CDD      0.42   66 iP     03 00.55  -0.8
                  eS     03 12.69
MCNL     0.43    3 eP     03 00.71  -0.7
                  eS     03 11.78
AUI      0.76   40 eP     03 03.21  -0.8
                  eS     03 16.78
AUH      0.77   38 eP     03 03.58  -0.7
AUP      0.78   39 eP     03 03.59  -0.8
AUE      0.79   41 iP     03 03.77  -0.6
PDB      1.03    5 eP     03 05.65  -1.3
SYI      1.05   98 eP     03 05.95  -1.1
                  eS     03 21.92
OPT      1.07   33 iP     03 06.55  -0.8
                  eS     03 22.21
INE      1.47   27 iP     03 10.91  -1.3
HOM      1.67   56 eP     03 13.67  -0.9
                  eS     03 34.34
CNPM     1.79   63 eP     03 14.33  -1.9
                  eS     03 37.30
RED      1.85   25 iP     03 15.71  -1.3
RS2      1.89   25 iP     03 16.44  -1.3
RSO      1.89   25 iP     03 16.44  -1.3
REF      1.93   25 iP     03 16.77  -1.4
RDN      1.94   24 iP     03 16.93  -1.3
NCT      1.95   22 iP     03 16.95  -1.4
                  eS     03 39.91
NNL      2.03   50 eP     03 18.30  -1.0
BRLK     2.06   59 eP     03 17.38  -2.3
RDT      2.07   28 eP     03 18.17  -1.8
NKA      2.54   37 eP     03 25.54  -0.5
CKL      2.65   22 eP     03 26.09  -1.6
SPU      2.69   25 eP     03 26.88  -1.3
BGL      2.70   21 eP     03 26.98  -1.4
SLKM     2.74   49 eP     03 26.12  -2.7
CGLM     2.82   24 eP     03 28.26  -1.6
SEW      2.86   60 eP     03 27.75  -2.5
NCG      2.87   22 eP     03 29.31  -1.4
SUA      3.26   32 eP     03 34.08  -1.9
PMS      3.47   42 eP     03 36.22  -2.5
SKT      3.53   22 eP     03 37.33  -2.1
MTU      3.65   67 eP     03 38.38  -2.9
PWA      3.67   36 eP     03 38.45  -2.9
KNIM     3.74   62 eP     03 38.64  -3.7
KNK      3.98   46 eP     03 42.23  -3.5
GHO      4.06   40 eP     03 43.08  -3.8
CUT      4.18   27 eP     03 45.06  -3.3
GLI      4.25   57 eP     03 44.79  -4.6
VZW      4.56   56 eP     03 49.76  -4.0
VLZ      4.69   56 eP     03 51.47  -3.9
KLU      5.04   53 eP     03 56.32  -4.0
TOA      5.27   47 eP     04 00.10  -3.4
RND      5.37   28 eP     04 01.41  -3.6
TZL      5.52   50 eP     04 03.78  -3.2
SDG      5.76   45 eP     04 05.90  -4.3
GLB      5.93   59 eP     04 08.46  -4.2
PAX      6.06   42 eP     04 10.18  -4.3
TGL      6.17   66 eP     04 10.45  -5.5
BALM     6.47   64 eP     04 15.96  -4.1
YAH      6.62   71 eP     04 19.14  -3.1
CTGM     6.93   66 eP     04 22.36  -4.1
YKA     19.63   62 eP     07 04.00  -4.3
        0.5s      0.30nm          2.9mb
     53 obs. associated
-------------------------------------
*  JAN  15, 1991  06h 28m 51.06± 0.81s
   25.214 S ± 6.4km   69.069 W ±13.0km
   DEPTH =  88.8 ± 16.8 km
   3.9mb (  1 obs.)
 NORTHERN CHILE                  (123)

ANT      1.94  320 iPc    29 22.60  -0.3
                  i      29 24.70
                  iS     29 43.20
RTRS     4.95  184 e(P)   30 08.70   4.3X
RTLL     6.12  175 iPc    30 20.50  -0.2
RTCV     6.64  176 ePc    30 28.00   0.1
CCH      8.26   20 P      30 56.40   6.0X
CNCB     8.42    7 P      30 53.00   0.1
LPB      8.69    6 eP     30 57.00   0.7
ZOBO     8.94    6 P      31 00.80   0.8
SIV     11.84   41 P      31 36.50  -1.9
PPD     16.58   83 eP     32 40.30   0.9
                  e      32 43.80
YKA     94.62  341 eP     42 02.30  -0.2
        0.8s      0.40nm          3.9mb
     S.D. = 1.1  on   9 of  11 obs.
-------------------------------------
?  JAN  15, 1991  07h 15m 52.27± 3.07s
    1.839 S ±28.4km   80.858 W ±20.0km
   DEPTH =  33.0km  (normal)
   3.6mb (  1 obs.)
 NEAR COAST OF ECUADOR           (105)

TUNG     2.45   80 P      16 29.30  -1.8
                  eS     16 57.00
VC1      2.72   64 P      16 35.70   0.6
                  eS     17 10.00
GGP      2.80   54 Pn     16 36.60   0.3
                  Pg     16 37.90
                  S      17 14.30
CAYA     3.45   56 P      16 46.50   1.0
PURC     6.11   47 eP     17 25.40   2.3
SALC     6.34   41 eP     17 26.20   0.2
SILC     6.37   45 eP     17 28.40   1.6
ANCC     6.65   37 eP     17 28.30  -2.0
HOOC     6.75   39 eP     17 31.00  -1.0
DIAC     6.90   42 eP     17 35.30   1.3
                  eS     18 59.00
CLMC     7.12   37 eP     17 34.90  -2.1
BUGC     7.32   39 eP     17 39.00  -0.8
YKA     69.04  344 eP     26 57.00   0.4
        0.7s      0.40nm          3.6mb
     S.D. = 1.6  on  13 of  13 obs.
-------------------------------------
%  JAN  15, 1991  07h 51m 20.00± 0.76s
   43.400 N ± 5.5km    5.440 E ± 6.1km
   DEPTH =  10.0km  (geophysicist)
 NEAR SOUTH COAST OF FRANCE      (379)
     MD 2.9 (STR).

GELF     0.02  209 Pg     51 19.96  -2.0
BERF     0.20  115 Pg     51 23.43  -1.1
TREF     0.23  350 Pg     51 23.02  -1.9
PUYF     0.23   55 Pg     51 23.09  -1.9
PRAF     0.45  334 Pg     51 28.13  -1.0
VILF     0.49   24 Pg     51 28.43  -1.6
TAVF     0.50   64 Pg     51 28.50  -1.6
     S.D. = 0.5  on   7 of   7 obs.
-------------------------------------
?  JAN  15, 1991  07h 53m 59.21±12.38s
   15.790 N ±29.7km   60.541 W ±102.km
   DEPTH =  33.0km  (normal)
 LEEWARD ISLANDS                 ( 92)
     ML 2.4 (FDF).

DEG      0.72  316 eP     54 12.98   0.0
                  S      54 22.50
SFG      0.78  306 eP     54 13.10  -0.6
BBL      0.94  254 eP     54 16.00  -0.1
                  S      54 26.00
SEG      1.11  303 eP     54 18.90   0.4
                  S      54 31.00
PAG      1.12  282 eP     54 18.70   0.0
                  S      54 30.70
     S.D. = 0.5  on   5 of   5 obs.
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%  JAN  15, 1991  08h 01m 37.38± 0.61s
   46.963 N ± 6.6km    1.499 E ± 4.5km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                          (538)
     ML 2.5 (LDG).

LSF      0.71  178 Pg     01 51.60   0.2
                  Sg     02 00.80
TCF      0.83  144 Pg     01 53.00  -0.5
                  Sg     02 04.80
BGF      1.01  113 Pg     01 56.00  -0.5
                  Sg     02 10.00
MAF      1.04  135 Pg     01 57.00  -0.1
                  Sg     02 11.20
MFF      1.19  253 Pg     01 58.40  -1.1
                  Sg     02 13.20
AVF      1.28   97 Pg     02 00.60  -0.6
                  Sg     02 17.20
SSF      1.38   85 Pg     02 02.00  -0.6
                  Sg     02 20.40
SMF      1.64  100 Pg     02 06.80   0.4
                  Sg     02 28.40
LOR      1.64   78 Pg     02 07.00   0.6
                  Sg     02 28.00
RJF      1.66  180 Pg     02 08.00   1.4
                  Sg     02 30.00
LBF      1.70   88 Pg     02 07.60   0.4
                  Sg     02 29.40
LPF      2.03  303 Pg     02 12.40   0.5
                  Sg     02 37.80
     S.D. = 0.8  on  12 of  12 obs.
-------------------------------------
?  JAN  15, 1991  08h 10m 30.42± 5.81s
   13.119 S ±52.5km  118.406 E ±27.0km
   DEPTH =  33.0km  (normal)
   4.2mb (  2 obs.)
 NORTHWEST OF AUSTRALIA          (588)

MBL      8.11  171 eP     12 29.00   0.1
        0.2s     35.00nm          6.1mb X
                  eS     14 09.00
MEKA    13.43  180 iPd    13 41.30   0.2
        0.3s     10.00nm          5.2mb X
                  eS     16 08.00
MRWA    16.18  188 eP     14 16.00  -0.9
        0.2s      2.00nm          3.9mb
                  eS     17 14.00
BAL     17.47  185 eP     14 32.00  -1.3
                  eS     17 47.00
COOL    17.86  172 eP     14 38.50   0.4
                  eS     17 51.00
ASPA    18.04  128 iPd    14 40.20  -0.3
        1.0s     39.40nm          4.5mb
                  eS     18 04.00
KLB     18.40  182 eP     14 45.00   0.3
                  eS     17 57.00
```

15d 08h

MUN	18.88	186	eP	14	51.50	0.9
			eS	18	12.00	
NWAO	19.75	183	eP	15	01.00	0.5
			eS	18	39.00	
S.D. = 0.8			on	9 of	9 obs.	

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* JAN 15, 1991 08h 55m 35.58± 1.54s
43.398 N ±14.5km 5.401 E ± 9.5km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
MD 2.7 (STR).

CDR	0.38	44	iPg	55	42.00	-1.5
			iSg	55	47.10	
CALN	1.14	71	Pg	55	57.69	0.7
MVIF	1.37	68	Pn	56	01.07	0.3
REVF	1.47	76	Pn	56	02.05	-0.1
TOUF	1.47	65	Pn	56	03.32	1.0
AURF	1.48	70	Pn	56	02.37	0.0
			SP	56	22.72	
AUTN	1.59	67	Pn	56	04.93	0.9
			Sg	56	26.75	
SAOF	1.67	69	Pn	56	04.89	-0.1
DOI	1.73	50	P	56	09.80	3.8X
			(Sg)	56	31.30	
BNI	1.89	29	P	56	13.30	5.0X
			(Sg)	56	37.40	
LBL	2.40	321	Pn	56	15.50	0.0
			Pg	56	23.50	
PGF	2.77	107	Pn	56	19.77	-1.2
S.D. = 0.9			on	10 of	12 obs.	

? JAN 15, 1991 09h 13m 31.03± 0.95s
39.138 N ± 8.1km 27.497 E ± 9.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.5 (ISK).

IZM	0.76	194	ePg	13	46.10	0.2
			eSg	13	58.10	
DST	0.99	62	ePn	13	49.50	-0.4
EZN	1.14	308	ePn	13	52.00	-0.3
BNT	1.26	15	ePn	13	55.00	0.6
S.D. = 0.8			on	4 of	4 obs.	

& JAN 15, 1991 09h 18m 21.20s
62.271 N 151.956 W
DEPTH = 117.4km
CENTRAL ALASKA (1)
<AEIC>.

SKT	0.35	145	iP	18	37.27	-1.1
			eS	18	50.29	
CUT	0.80	80	iP	18	40.64	-0.7
			eS	18	55.73	
NCG	0.88	186	iP	18	41.35	-0.9
CGLM	0.97	181	iP	18	42.13	-1.0
			eS	18	58.80	
SUA	0.99	144	eP	18	43.00	-0.4
			eS	18	59.98	
BGL	1.03	192	iP	18	43.03	-0.7
CKL	1.09	190	iP	18	43.62	-0.8
SPU	1.09	182	eP	18	43.22	-1.1
PWA	1.16	121	eP	18	44.59	-0.4
			eS	19	02.63	
HUR	1.29	55	eP	18	45.18	-1.2
			eS	19	03.59	
GHO	1.51	108	eP	18	48.19	-0.9
			eS	19	09.56	
PMS	1.54	131	eP	18	48.58	-0.7
			eS	19	10.31	
NKA	1.57	167	eP	18	50.36	0.7
RDT	1.72	187	iP	18	50.55	-1.0
NCT	1.78	196	iP	18	51.47	-0.9
RDN	1.81	193	eP	18	51.76	-0.9
REF	1.82	192	eP	18	52.10	-0.9
RNO	1.82	50	eP	18	50.55	-2.3
			eS	19	14.38	
RS2	1.86	192	eP	18	52.74	-0.6
RSO	1.86	192	eP	18	52.47	-0.9
KNK	1.87	116	eP	18	51.85	-1.5
			eS	19	15.94	
SLKM	1.96	154	eP	18	53.82	-0.7
			eS	19	18.26	
NNL	2.26	172	eP	18	58.14	-0.2
SEW	2.49	150	eP	18	59.83	-1.5
BRLK	2.57	168	eP	19	01.44	-1.0
GLI	2.71	119	eP	19	01.61	-2.7
CNPM	2.78	172	eP	19	03.64	-1.5
KNIM	2.80	132	eP	19	02.24	-3.2
VZW	2.85	113	eP	19	04.03	-2.1
KLU	2.96	103	eP	19	04.90	-2.8
CCB	3.03	36	eP	19	05.54	-2.9
MDM	3.17	30	iP	19	07.63	-2.8
32 obs. associated						

& JAN 15, 1991 10h 31m 59.23s
58.153 N 143.132 W
DEPTH = 10.0km (geophysicist)
GULF OF ALASKA (15)
<AEIC>.

KAIM	1.90	340	iP	32	27.19	-4.8
WRG	1.97	16	iP	32	28.16	-4.9
MID	2.10	309	eP	32	29.30	-5.6
			eS	32	53.21	
YKU	2.26	50	eP	32	32.30	-4.8
			eS	32	58.10	
HMT	2.27	346	iP	32	32.09	-5.2
WAX	2.31	3	iP	32	32.59	-5.4
YAH	2.33	17	iP	32	33.33	-5.1
RAGM	2.38	341	iP	32	33.58	-5.3
PNL	2.46	50	iP	32	34.41	-5.7
BCPM	2.55	44	eP	32	35.68	-5.7
HON	2.57	58	iP	32	35.76	-5.8
SGAM	2.58	337	iP	32	36.69	-5.1
TGL	2.62	3	iP	32	36.88	-5.5
			eS	33	06.21	
CVA	2.75	332	eP	32	38.21	-5.9
HIN	2.84	324	iP	32	39.85	-5.6
BALM	2.92	8	iP	32	41.22	-5.4
			eS	33	14.10	
CTGM	2.97	17	eP	32	41.94	-5.4
MTU	2.97	310	eP	32	41.16	-6.1
			eS	33	14.10	
LTI	3.09	310	eP	32	44.29	-4.6
KNIM	3.23	315	eP	32	44.42	-6.6
			eS	33	20.13	
GLB	3.32	354	iP	32	46.39	-5.9
VZW	3.39	331	eP	32	46.92	-6.4
GLI	3.40	325	eP	32	46.88	-6.5
VLZ	3.40	333	eP	32	46.95	-6.4
KLU	3.63	338	iP	32	50.61	-6.2
PLBC	3.76	67	eP	32	52.30	-6.1
			eS	33	33.50	
SEW	3.80	304	eP	32	52.31	-6.7
HYT	3.93	45	eP	32	55.50	-5.5
TZL	4.07	345	eP	32	57.63	-5.2
KNK	4.23	323	eP	32	59.39	-5.8
TOA	4.25	340	eP	32	59.01	-6.4
BRLK	4.33	295	eP	33	00.28	-6.3
SLKM	4.33	306	eP	33	00.47	-6.2
SIT	4.34	101	eP	32	58.11	-8.6
CNPM	4.43	292	eP	33	02.43	-5.6
PMS	4.50	316	eP	33	02.44	-6.5
SDG	4.55	346	eP	33	03.92	-5.8
PLRM	4.59	321	eP	33	04.36	-5.8
GHO	4.65	324	eP	33	04.99	-6.3
WHC	4.85	54	eP	33	08.00	-6.0
			eS	33	59.40	
PAX	4.97	348	eP	33	09.63	-6.1
SUA	5.08	314	eP	33	09.74	-7.5
RDT	5.33	301	eP	33	14.58	-6.2
REF	5.43	300	eP	33	16.44	-5.9
RED	5.44	299	eP	33	16.59	-5.8
RSO	5.45	299	eP	33	16.90	-5.7
SPU	5.45	308	eP	33	15.81	-6.6
OPT	5.45	290	eP	33	16.29	-6.1
RS2	5.45	299	eP	33	16.91	-5.7
INE	5.46	295	eP	33	16.07	-6.7
AUE	5.47	287	eP	33	14.85	-7.8
RDN	5.47	300	eP	33	16.21	-6.6
CGLM	5.49	309	eP	33	16.91	-6.2
AUP	5.49	287	eP	33	18.30	-4.8
CUT	5.55	323	eP	33	18.25	-5.5
CDD	5.56	283	eP	33	18.91	-5.1
NCT	5.56	300	eP	33	17.36	-6.8
NCG	5.60	309	eP	33	18.72	-6.0
BGL	5.63	308	eP	33	18.91	-6.1
SKT	5.69	316	eP	33	19.75	-6.1
DDM	5.81	348	eP	33	22.24	-5.3
PDB	5.95	291	eP	33	24.08	-5.4
RND	5.97	334	eP	33	23.29	-6.5
DWY	6.19	15	eP	33	27.00	-5.8
TCBC	6.30	87	eP	33	27.40	-7.1
DLB	6.90	82	eP	33	35.60	-7.3
CWB	8.04	124	eP	33	51.00	-7.8
			eS	34	55.00	
67 obs. associated						

% JAN 15, 1991 10h 59m 34.00± 1.16s
43.070 N ±20.0km 0.623 W ± 6.2km
DEPTH = 10.0km (geophysicist)
PYRENEES (378)
MD 2.3 (STR).

ESCF	0.04	76	Pg	59	33.64	-2.5
			Sg	59	35.42	
ATE	0.06	285	Pg	59	33.94	-2.4
OGE	0.15	48	Pg	59	35.33	-2.1
MADF	0.16	298	Pg	59	35.79	-2.0
			Sg	59	38.65	
JAU	0.19	100	Pg	59	36.35	-1.9
			Sg	59	39.71	
S.D. = 0.3			on	5 of	5 obs.	

JAN 15, 1991 11h 11m 11.37± 0.66s
10.370 N ± 7.9km 62.296 W ± 4.6km
DEPTH = 5.0km (geophysicist)
NEAR COAST OF VENEZUELA (97)
MD 3.8 (TRN).

TCE	0.62	59	eP	11	23.50	-0.4
			eS	11	35.12	
TPP	0.83	94	eP	11	27.89	-0.1
			eS	11	40.59	
TRN	0.92	72	eP	11	28.13	-1.3
			eS	11	44.02	
TBH	1.21	85	eP	11	34.69	0.3
			eS	11	53.89	
PIG	1.63	61	eP	11	41.84	1.0
			eS	12	05.40	
BOT	1.74	63	eP	11	43.16	0.7
			eS	12	08.07	
BIM	4.29	16	eP	12	19.05	0.2
MVM	4.38	18	eP	12	20.33	0.2
OLLA	4.45	266	iP	12	22.40	1.2
FDF	4.48	14	eP	12	21.46	-0.1
			S	13	11.00	
CRM	4.56	17	eP	12	23.86	1.2
PAG	5.66	6	eP	12	38.00	-0.3
			S	13	37.00	
DEG	6.03	11	eP	12	42.00	-1.5
TOV	7.41	266	eP	13	03.10	0.2
SDV	8.35	261	eP	13	14.80	-1.5
S.D. = 0.9			on	15 of	15 obs.	

& JAN 15, 1991 12h 02m 58.99s
62.924 N 149.566 W
DEPTH = 81.3km
CENTRAL ALASKA (1)
<AEIC>.

HUR	0.06	329	eP	03	10.69	1.7
			eS	03	19.19	
RND	0.58	33	iP	03	13.64	-0.2
			eS	03	24.16	
CUT	0.61	212	iP	03	13.97	-0.1
			eS	03	25.04	
MCK	0.86	19	eP	03	16.68	-0.1
			eS	03	29.89	
GHO	1.19	165	eP	03	20.53	-0.4
			eS	03	37.72	
BWN	1.25	2	eP	03	21.26	-0.3
			eS	03	38.66	
PWA	1.29	187	iP	03	22.26	0.3
			eS	03	40.28	
SKT	1.32	225	iP	03	22.07	-0.3
			eS	03	39.70	
PLRM	1.35	171	eP	03	22.55	-0.2
			eS	03	42.01	
SUA	1.57	201	eP	03	25.89	0.1
KNK	1.60	161	iP	03	25.91	-0.3
			eS	03	47.75	
PMS	1.69	180	eP	03	27.34	0.1
TOA	1.78	116	eP	03	28.24	-0.3
PAX	1.87	87	eP	03	29.85	0.0
			eS	03	52.68	
DDM	1.88	61	eP	03	30.10	0.2
HDA	1.89	37	eP	03	29.20	-0.8
			eS	03	51.85	

SDG	1.90	100	eP	03	30.22	0.1
			eS	03	54.36	
CCB	1.90	24	iP	03	29.15	-0.9
			eS	03	50.40	
NCG	1.95	220	eP	03	30.70	-0.2
CGLM	1.99	216	eP	03	31.32	-0.1
SPU	2.11	215	eP	03	33.31	0.4
TZL	2.12	113	eP	03	32.88	-0.2
MDM	2.13	16	eP	03	32.38	-0.8
BGL	2.13	220	eP	03	33.74	0.4
FBA	2.13	21	iP	03	32.53	-0.7
CKL	2.17	218	eP	03	33.86	0.0
KLU	2.23	128	iP	03	33.60	-1.1
NKA	2.33	201	eP	03	39.05	3.1
VZW	2.35	141	eP	03	34.67	-1.6
VLZ	2.36	138	eP	03	34.21	-2.1
GLI	2.36	149	eP	03	34.81	-1.6
SLKM	2.45	188	eP	03	37.90	0.3
RDT	2.72	211	eP	03	42.55	1.2
KNIM	2.73	161	eP	03	39.15	-2.3
SEW	2.83	179	eP	03	42.80	0.0
RDN	2.86	214	eP	03	43.18	-0.2
NNL	3.01	197	eP	03	46.91	1.6
GLB	3.08	116	eP	03	44.97	-1.4
CNPM	3.50	194	eP	03	51.52	-0.7
BALM	3.90	116	eP	03	54.95	-2.9

40 obs. associated

% JAN 15, 1991 12h 39m 29.35± 0.88s
40.594 N ± 6.2km 23.405 E ± 8.0km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 1.8 (THE).

SOH	0.23	350	iPc	39	33.89	-0.4
THE	0.34	277	ePc	39	36.76	0.4
			eS	39	41.08	
SRS	0.54	15	ePc	39	40.96	0.7
KNT	0.69	326	ePd	39	42.33	-0.6
			eS	39	52.28	
PAIG	0.70	162	ePc	39	43.00	-0.1
GRG	0.84	296	ePc	39	45.76	0.1

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

JAN 15, 1991 13h 18m 57.70± 0.43s
43.571 N ± 6.4km 17.211 E ± 5.2km
DEPTH = 5.0km (geophysicist)
YUGOSLAVIA (383)
ML 3.0 (TTG).

HVAR	0.68	235	iPg	19	11.30	0.0
			iSg	19	22.70	
BRY	1.18	124	ePg	19	19.20	-1.1
			eSg	19	37.00	
HCY	1.47	140	ePg	19	24.00	-0.8
			eSg	19	45.00	
NKY	1.51	120	ePg	19	25.60	0.1
			eSg	19	47.50	
PLE	1.61	98	ePn	19	26.50	-0.4
			eSn	19	48.50	
BDV	1.75	137	ePn	19	29.00	0.1
			eSn	19	55.00	
TTG	1.89	126	ePn	19	31.90	1.0
			eSn	19	58.80	
IVA	2.08	109	ePn	19	34.00	0.2
			eSn	20	05.00	
VBY	2.39	325	eP	19	39.00	0.9
			i(Sn)	20	12.20	
PTJ	2.49	339	e(Pn)	19	38.90	-0.8
			e(Sn)	20	10.90	
RIY	2.69	312	ePn	19	46.20	3.8X
LJU	3.12	323	eP	19	55.50	7.0X
			e(Sn)	20	41.00	
TRI	3.26	312	eP	19	50.70	0.3
			i	20	40.70	
SKO	3.50	116	ePn	19	55.00	1.1
			eSn	20	43.50	
OHR	3.62	132	ePn	20	02.00	6.3X
FVI	4.36	315	P	20	05.00	-1.0
SOTA	5.58	313	ePn	20	24.00	0.4
			i	21	29.10	

S.D. = 0.8 on 14 of 17 obs.

JAN 15, 1991 13h 43m 47.58± 0.16s
5.990 S ± 3.4km 154.460 E ± 3.7km
DEPTH = 58.2km (10 depth phases)
5.6mb (37 obs.)

SOLOMON ISLANDS (193)
Mo=6.0*10**17 Nm (PPT).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 25S, 59C
Centroid Location:
Origin Time 13:43:50.9 0.3
Lat 6.25S 0.03 Lon 154.21E 0.02
Dep 69.8 1.3 Half-duration 3.7
Moment Tensor; Scale 10**18 Nm
Mrr= 1.20 0.02 Mtt=-0.54 0.04
Mff=-0.67 0.04 Mrt= 0.00 0.03
Mrf= 0.07 0.03 Mtf= 0.64 0.02
Principal Axes:
T Val= 1.21 Plg=87 Azm=291
N 0.04 2 138
P -1.25 1 48
Best Double Couple:Mo=1.2*10**18
NP1:Strike=135 Dip=44 Slip= 87
NP2: 320 46 93

VSG	6.13	122	iP	45	20.00	2.2
			iS	46	34.00	
SVO	6.17	121	eP	45	23.00	4.8X
			eS	46	29.00	
HNR	6.42	123	iP	45	23.00	1.2
			iS	46	35.00	
PMG	8.00	244	iPd-	45	47.00	3.3X
MNDI	10.74	269	eP	46	23.00	1.5
JAY	14.14	284	eP	47	07.50	1.0
DZM	19.74	145	iPc	48	15.50	-0.1
QIS	20.43	223	iPd	48	23.00	0.3
			i	48	26.30	12kmX
RMO	21.10	194	eP	48	30.00	0.6
			i	48	44.00	61km
BRS	21.34	184	iPc	48	32.50	0.6
			i	48	36.00	13kmX
			i	48	57.00	
			eS	52	15.00	
GUA	21.59	334	eP	48	36.30	1.8
	1.1s	1022.78nm			6.1mb	
PJG	21.66	334	eP	48	36.50	1.4
MTN	23.99	252	eP	49	00.00	2.1
COO	24.58	185	iPc	49	03.70	0.1
	0.9s	264.00nm			5.7mb	
AAI	26.27	274	ePd	49	20.00	0.5
ASPA	26.46	226	iPc	49	20.90	-0.3
	0.8s	79.40nm			5.3mb	
Z	23s	20.40um			5.6MszX	
			iPcP	52	43.90	
			iS	53	50.20	
			iPcS	56	25.40	
			iScS	00	10.50	
CMS	26.62	197	eP	49	32.00	9.5X
	0.9s	94.00nm			5.4mb	
KNA	27.00	247	eP	49	26.00	-0.1
	0.6s	77.00nm			5.5mb	
CNB	29.56	188	eP	49	49.00	-0.1
MNI	30.48	283	eP	49	56.50	-0.9
KUPT	30.82	260	ePc	50	03.00	2.7
KUG	30.83	260	ePc	50	03.00	2.5
DAV	31.61	294	eP	50	08.00	0.6
ADE	32.29	205	iPc	50	12.80	-0.3
	1.0s	100.00nm			5.6mb	
TOO	32.48	193	iPd	50	15.40	0.7
BFD	32.89	198	eP	50	21.00	2.7X
			e	53	05.00	
WARB	33.29	230	iPc	50	29.00	7.1X
MAP	34.41	298	eP	50	32.00	0.4
FORR	34.98	222	iPd	50	35.70	-0.6
	0.4s	63.00nm			5.9mb	
MBL	36.76	242	eP	50	51.00	-0.5
	0.6s	45.00nm			5.6mb	
WLZ	37.08	152	P	50	54.90	1.0
NGZ	38.16	153	P	51	03.80	0.6
PGP	38.50	300	eP	51	08.00	1.9
PUZ	38.56	149	P	51	06.10	-0.4
NOZ	38.87	150	P	51	08.90	-0.1
PPR	38.89	294	iPd	51	10.50	1.1
THZ	39.23	158	eP	51	11.30	-0.7
TCW	39.29	156	eP	51	11.90	-0.5
MNG	39.29	154	Pc	51	11.70	-0.8
CAW	39.52	155	eP	51	13.40	-1.0
SNZO	39.54	156	P	51	15.00	0.5
			PP	53	00.00	
			S	57	08.00	
PGZ	39.63	154	P	51	14.20	-1.1

MTW	39.75	155	Pc	51	15.10	-1.1
COOL	39.87	227	eP	51	17.50	0.1
LTZ	39.89	159	eP	51	16.20	-1.2
MEKA	39.89	235	eP	51	18.00	0.3
	0.5s	40.00nm			5.5mb	
BLW	39.91	155	P	51	16.80	-0.7
CVP	39.91	307	iPc	51	19.00	1.2
KKM	40.00	287	ePc	51	18.50	-0.3
KHZ	40.03	158	eP	51	16.50	-2.0
BAG	40.23	304	eP	51	22.00	1.3
MOZ	40.83	160	eP	51	24.20	-0.9
KLB	42.73	229	iPc	51	39.80	-1.0
	0.7s	149.00nm			5.9mb	
MRWA	43.02	233	iPc	51	42.70	-0.5
	0.5s	13.00nm			4.9mb	
KAGJ	43.29	330	P	51	45.00	-0.3
NWAO	43.77	227	eP	51	47.00	-2.2
	0.6s	27.00nm			5.2mb	
			eS	58	00.00	
MUN	44.08	229	eP	51	51.00	-0.7
	0.8s	138.00nm			5.8mb	
Z	20s	13.70um			5.9Msz	
			eS	58	20.00	
CHJJ	44.26	342	P	51	53.10	-0.1
KUMJ	44.42	331	P	51	53.90	-0.6
MTMJ	45.13	341	P	51	58.60	-1.6
NIIJ	45.36	343	P	52	00.90	-1.0
SHNJ	45.60	333	P	52	02.50	-1.3
YAMJ	45.94	344	eP	52	06.30	-0.2
OFUJ	46.38	346	P	52	11.10	1.2
QZH	46.51	313	Pc	52	11.00	-0.1
Z	36s	6.20um			5.3MszX	
E	36s	7.10um				
			S	58	56.00	
HKC	48.43	307	eP	52	29.00	2.8X
SSE	48.69	321	Pc	52	28.00	-0.1
	6.0s	800.00nm			5.9mb X	
Z	20s	2.30um			5.2Msz	
N	14s	0.70um				
E	14s	0.80um				
			pP	52	42.00	53km
			S	59	26.00	
			SS	02	48.00	
GZH	49.49	307	Pc	52	35.00	0.6
Z	20s	6.30um			5.6Msz	
E	21s	4.90um				
KUSJ	49.65	351	eP	52	34.10	-1.2
MRRJ	49.78	347	eP	52	34.70	-1.0
QIZ	50.49	301	Pc	52	43.00	0.9
	8.0s	1400.00nm			6.0mb X	
N	20s	3.70um				
E	20s	3.60um				
			pP	52	57.00	52km
			PP	54	38.50	
			sS	00	19.00	
			SS	03	26.00	
NJ2	50.81	320	Pc	52	44.00	-0.3
	5.0s	900.00nm			6.1mb X	
Z	26s	1.60um			4.9MszX	
			pP	53	00.20	63km
			S	59	54.50	
ASAJ	51.00	349	P	52	45.50	-0.1
KGM	51.68	277	eP	52	52.00	0.7
WHN	52.85	316	Pc	53	01.50	1.8
	5.0s	900.00nm			6.1mb X	
Z	30s	3.00um			5.2MszX	
N	20s	3.10um				
			S	00	26.00	
DL2	54.04	328	Pc	53	07.00	-1.2
	8.0s	700.00nm			5.7mb X	
Z	28s	2.90um			5.2MszX	
N	18s	1.30um				
E	17s	0.90um				
			S	00	36.00	
PPI	54.23	274	eP	53	08.90	-1.2
	0.5s	198.00nm			6.4mb	
IPM	54.38	280	ePc	53	10.40	-0.8
	0.6s	50.20nm			5.7mb	
TIA	54.65	323	eP	53	11.00	-1.9
Z	26s	2.50um			5.2MszX	
			S	00	41.50	
MDJ	55.12	339	Pc	53	14.50	-1.6
	6.0s	800.00nm			5.9mb X	
Z	30s	2.30um			5.1MszX	
N	14s	2.70um				
SNG	55.29	283	eP	53	17.00	-0.8
			eS	00	56.20	

15d 13h

SNY	55.31	332	iPc	53	16.00	-1.5
	6.0s	800.00nm				5.9mb X
	Z 36s	5.60um				5.4MszX
	N 15s	0.80um				
	E 13s	0.60um				
		pP		53	29.00	47kmX
		esP		53	36.00	
		PP		55	20.00	
CN2	56.06	335	Pc	53	21.00	-1.9
	6.0s	600.00nm				5.8mb X
	Z 32s	7.80um				5.6MszX
	N 14s	0.40um				
	E 14s	0.40um				
		epP		53	36.00	56km
		eS		01	04.00	
GYA	56.43	307	iPc	53	26.00	0.0
	1.4s	100.00nm				5.7mb
	N 18s	1.10um				
	E 18s	2.40um				
		pP		53	42.00	60km
		sP		53	50.00	
		PcP		54	18.00	
		S		01	14.00	
		sS		01	42.00	
LOE	57.03	295	eP	53	29.00	-1.2
TPT	57.51	104	eP	53	38.00	4.4X
	1.0s	45.00nm				5.5mb
BJI	57.80	326	eP	53	33.50	-1.7
	9.0s	480.00nm				5.6mb X
	Z 35s	4.87um				5.4MszX
	N 14s	0.43um				
		pP		53	53.50	78kmX
		S		01	24.00	
		esS		01	54.00	
NST	57.93	293	eP	53	40.50	3.9X
TIY	58.48	321	Pc	53	39.60	-0.6
	Z 13s	2.60um				5.5MszX
	N 19s	2.30um				
		S		01	35.00	
		sS		02	07.00	
XAN	58.62	316	P	53	40.10	-1.1
	6.0s	800.00nm				6.0mb X
		pP		53	56.00	60km
		S		01	38.00	
KMI	59.02	304	Pc	53	45.00	0.7
	5.0s	900.00nm				6.2mb X
	Z 27s	5.00um				5.5MszX
	E 25s	3.10um				
		sS		02	15.00	
BDT	59.44	294	eP	53	47.50	0.4
CHG	59.99	296	iPc	53	50.90	0.1
	1.2s	113.28nm				5.9mb
		eS		02	04.00	
CD2	60.76	310	iPc	53	55.40	-0.6
	6.0s	100.00nm				5.1mb X
		pP		54	12.00	62km
SMY	60.83	14	eP	53	56.80	0.9
HHC	60.97	324	P	53	56.60	-0.7
	1.2s	100.00nm				5.8mb
	Z 26s	3.80um				5.4MszX
	N 17s	1.10um				
	E 22s	2.90um				
		pP		54	13.00	61km
		S		02	13.00	
DRV	61.40	187	eP	54	00.00	0.4
BTO	61.74	323	P	54	02.00	-0.5
	N 19s	1.50um				
	E 20s	1.80um				
		epP		54	21.00	73kmX
		S		02	15.00	
		sS		02	47.00	
ADK	62.70	20	eP	54	08.60	0.1
	1.0s	129.60nm				6.0mb
LZH	63.23	315	iPc	54	12.50	0.0
	6.0s	1070.00nm				6.1mb X
		sP		54	34.50	
		ePP		56	35.00	
GTA	67.65	317	eP	54	40.80	-0.1
	8.0s	1170.00nm				5.9mb X
	Z 28s	3.70um				5.5MszX
	N 15s	0.77um				
		pP		54	56.00	55km
		sP		55	05.00	
		sS		04	03.20	
RKT	69.81	112	eP	54	54.00	-0.3
	0.8s	15.00nm				5.0mb
LSA	70.27	304	Pc	54	57.90	0.3

	N 19s	1.30um				
		S		04	06.00	
		sS		04	37.00	
SDN	71.55	25	eP	55	04.80	0.6
VNDA	71.59	178	iPc	55	04.00	-0.1
SBA	72.11	177	iPd	55	08.90	1.7
GUN	74.15	301	Pc	55	20.34	-0.1
	0.8s	283.00nm				6.3mb
PKI	74.46	301	Pc	55	21.76	-0.5
KKN	74.63	301	Pc	55	22.70	-0.4
DMN	74.73	301	Pc	55	23.70	0.0
	0.6s	229.00nm				6.2mb
GKN	75.23	301	Pc	55	26.06	-0.4
SVW	77.27	22	ePc	55	37.50	0.4
WMO	77.73	317	Pc	55	39.50	-0.5
	7.0s	1570.00nm				6.1mb X
	Z 32s	2.06um				5.2MszX
		iS		05	28.00	
TTA	78.28	21	eP	55	42.20	-0.5
	0.9s	51.60nm				5.5mb
KOD	78.34	282	iPc	55	44.60	0.4
	0.9s	7.00nm				4.6mb
HYB	78.44	289	iPc	55	43.60	-0.8
	0.6s	133.30nm				6.1mb
		e		55	57.80	49kmX
		eS		05	34.00	
GBA	78.88	285	Pc	55	46.20	-0.5
	0.7s	40.00nm				5.5mb
PMR	80.09	24	eP	55	53.30	1.0
	0.9s	53.50nm				5.5mb
	Z 19s	2.00um				5.5Msz
IMA	81.03	19	ePc	55	56.90	-0.6
	0.8s	34.00nm				5.3mb
KLU	81.35	25	P	55	58.00	-1.1
TOA	81.55	24	eP	56	02.40	2.2
PAF	81.74	221	eP	56	08.00	6.7X
		ePP		59	40.00	
		eS		07	24.00	
		eSS		11	32.00	
FBA	82.38	21	ePc	56	02.60	-1.7
	0.7s	80.70nm				5.8mb
POO	83.04	289	iPc	56	07.40	-1.3
BRW	83.50	14	eP	56	09.30	-0.6
SPA	84.05	180	iPd	56	20.90	7.8X
	1.0s	100.00nm				5.8mb
	Z 20s	0.90um				5.1Msz
		i		57	26.50	275kmX
		e		07	00.00	
KSH	84.94	310	P	56	20.00	2.0
MAW	85.11	203	iPc	56	18.60	0.5
	0.8s	61.00nm				5.8mb
BRK	88.35	52	eP	56	35.90	1.4
BKS	88.37	52	eP	56	38.10	3.5X
	0.8s	50.00nm				5.8mb
	Z 20s	3.20um				5.7Msz
	E 20s	3.60um				
		eLR		24	13.60	
GCC	88.43	53	ePc	56	38.70	3.8X
WDC	88.56	49	ePc	56	38.80	3.3X
MHC	88.76	52	eP	56	38.70	2.0
PRS	88.83	53	eP	56	39.00	2.1
SAO	88.83	53	eP	56	39.40	2.5
INK	88.97	21	ePc	56	35.40	-1.4
ORV	89.19	50	eP	56	38.90	0.4
LLA	89.21	53	eP	56	40.70	2.0
MIN	89.23	49	e(P)	56	38.80	0.0
PRI	89.37	54	e(P)	56	40.70	1.2
CMB	89.84	52	e(P)	56	41.50	-0.1
FRI	90.24	53	eP	56	43.30	-0.1
ISA	91.07	54	eP	56	48.00	0.6
PAS	91.15	56	eP	56	49.00	1.3
MWC	91.25	56	eP	56	49.00	0.6
SBB	91.49	55	eP	56	50.00	0.7
RVR	91.79	56	eP	56	51.00	0.4
CLC	91.80	54	eP	56	51.00	0.3
		e		57	13.00	80kmX
PNT	91.84	41	eP	56	52.00	1.5
	0.8s	6.00nm				5.1mb
PEC	91.96	56	P	56	51.40	-0.1
PLM	92.15	57	eP	56	53.00	0.5
BAR	92.24	58	eP	56	54.00	1.2
TNP	92.33	52	P	56	53.00	-0.3
	0.8s	15.20nm				5.5mb
GSC	92.39	55	eP	56	54.00	0.5
NEW	93.37	42	P	56	56.00	-1.6
GLA	93.82	57	eP	57	01.00	0.9
CRZF	94.31	223	eP	57	00.00	-2.0

		ePP		01	09.00	
		eS		09	39.00	
		eSS		14	30.00	
MBC	94.86	14	eP	57	03.00	-0.9
	0.6s	12.00nm				5.5mb
YKA	95.70	28	eP	57	05.60	-2.4
	0.8s	4.40nm				5.0mb
EDM	96.07	37	eP	57	10.00	0.1
MSU	96.32	52	P	57	10.00	-1.7
SES	97.45	40	eP	57	15.00	-1.2
MAIO	97.51	306	eP	57	19.00	2.2
			i	01	35.00	
BW06	98.42	48	P	57	19.00	-2.0
ALO	100.84	56	ePdiff	57	32.50	0.3
ANMO	100.84	56	Pdiff	57	35.00	2.9X
	Z 20s	2.98um				5.8Msz
GOL	101.62	51	Pdiff	57	40.00	4.4X
	Z 19s	2.36um				5.7Msz
GLD	101.73	51	Pdiff	57	40.00	4.0X
	Z 20s	3.80um				5.9Msz
TAB	107.94	308	e(PKP)	02	29.00	18.2X
RSCP	117.71	53	PKP	02	27.00	-2.4
	Z 20s	2.60um				5.9Msz
APO	118.01	339	ePKP	02	31.00	1.9
	0.5s	1.60nm				
NAO	118.87	341	PKP	02	33.20	2.5
	0.5s	1.10nm				
SLR	119.00	236	ePKP	02	31.00	-1.3
	Z 20s	3.31um				6.0Msz
CER	122.25	224	ePKP	02	39.00	0.9
RSNY	122.62	40	PKP	02	36.00	-2.4
	Z 20s	3.39um				6.0Msz
LSZ	122.74	248	iPKP	02	39.00	-0.5
			i	04	15.00	
KMZ	125.46	249	ePKP	02	47.00	2.1
TPZ	132.08	126	iPKP	03	05.60	7.9X
			i	04	29.50	
CNCB	132.32	119	ePKP	02	47.00	-11.5X
			i	02	59.00	
			PKS	06	19.00	
LPB	132.33	119	PKP	02	56.00	-2.3
			PKS	06	26.00	
			eLR	56	44.00	
BCAO	136.09	270	ePKPc	02	53.00	-12.1X
	0.5s	10.00nm				
			ic	03	03.50	
			id	05	45.80	
SIV	138.60	122	PKP	02	57.70	-12.0X
PPD	142.41	139	ePKP	03	11.10	-5.3X
			e	03	17.60	
			e	04	20.50	
			e	04	51.50	
LIJA	144.15	332	ePKP	03	12.00	-7.0X
GIBL	144.46	332	ePKP	03	12.00	-7.4X
OJEN	144.86	331	ePKP	03	16.00	-4.2X
CNIL	144.88	332	ePKP	03	16.00	-4.1X
IFR	146.69	328	iPKPc	03	24.00	0.5
AVE	148.03	331	iPKPc	03	30.40	5.0X
			i	03	59.00	
TIO	149.84	328	iPKPc	03	32.00	3.5X
KUK	154.97	272	ePKP	03	44.00	8.0X
PDCR	157.18	144	ePKP	03	37.30	-1.6
			e	04	10.10	
SOB1	158.50	134	ePKP	03	42.30	1.8
			e	04	17.80	
KIC	159.32	272	PKP	03	45.62	4.2X
TIC	159.59	273	PKP	03	45.78	4.1X
LIC	159.60	272	PKP	03	45.74	4.0X
	Z 20s	1.50um				5.8Msz
	S.D. = 1.2	on 164 of 196 obs.				

JAN 15, 1991 14h 05m 34.52± 0.33s
38.631 N ± 3.5km 23.811 E ± 3.8km
DEPTH = 10.0km (geophysicist)
4.5mb (9 obs.)
GREECE (364)

ATH	0.66	186	eP	05	48.00	0.3
NEO	0.82	326	eP	05	50.00	-0.3
AGG	1.22	289	iP	05	56.78	-0.5
			e	06	13.22	
PAIG	1.30	356	eP	05	58.62	0.1
EVR	1.59	281	iPbd	06	03.90	1.0
OUR	1.71	4	iP	06	05.10	0.7
PLG	1.76	351	eP	06	05.60	0.3
LIT	1.79	326	eP	06	05.66	0.0
			e	06	29.14	

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VLI      2.03 200 eP    06 08.40  -0.8
APE      2.07 138 eP    06 10.00   0.2
THE      2.10 342 eP    06 10.26   0.1
                  e     06 36.90
SOH      2.22 351 iP    06 12.22   0.3
EZN      2.29  58 iPn   06 15.20   2.3
KZN      2.30 317 eP    06 13.50   0.3
SRS      2.49 356 eP    06 15.62  -0.1
                  e     06 47.50
SMG      2.56 110 eP    06 17.70   1.0
GRG      2.56 335 eP    06 17.26   0.5
                  e     06 48.30
VLS      2.57 261 eP    06 16.50  -0.4
KNT      2.62 345 iP    06 18.30   0.7
                  e     06 49.86
IZM      2.72  94 iPn   06 20.30   1.2
RDO      2.84  27 eP    06 21.00   0.3
ALN      2.84  37 eP    06 20.78   0.0
                  e     06 55.14
VAY      2.85 341 iPn   06 22.00   1.1
IGT      2.85 289 iP    06 21.62   0.7
                  e     06 55.58
FNA      2.85 320 eP    06 21.30   0.3
                  e     06 55.58
MMB      2.96 359 iPc   06 22.00  -0.4
                  iSg   07 05.00
RZN      3.13  13 iP    06 25.00   0.0
                  iSg   07 04.00
VAM      3.23 174 eP    06 28.00   1.7
KDZ      3.26  22 iPc   06 27.00   0.4
                  iS    07 01.00
KKB      3.28 350 iP    06 27.00   0.0
KEK      3.30 290 ePb   06 32.20   4.9X
OHR      3.39 318 iPn   06 29.40   0.8
                  iSn   07 27.20
                  Lg    07 33.20
PLD      3.54  11 eP    06 32.00   1.5
                  i     06 46.00
EDC      3.57  60 ePn   06 40.00   8.9X
NPS      3.66 156 iPb   06 39.00   6.6X
DIM      3.66  21 eP    06 33.00   0.7
                  eSg   06 46.00
SKO      3.80 332 ePn   06 37.50   3.2X
DST      3.87  74 ePn   06 33.00  -2.4
PGB      3.92   4 iP    06 37.00   0.9
                  iSg   06 49.00
VTS      3.98 354 iP    06 45.00   8.0X
KAP      4.08 138 ePn   06 39.00   0.7
KHL      4.49  92 ePn   06 45.50   1.2
PVL      4.72  14 iP    06 45.00  -2.5
ALT      4.94  83 ePn   06 52.40   1.8
TDS      5.90 282 P     07 06.00   1.9
MLR      7.04  12 ePd   07 28.00   7.8X
                  e     19 20.00
VRI      7.55  16 ePd   07 31.00   3.8X
APO     22.80 347 eP    10 35.50  -2.7
        0.7s     3.60nm          4.0mb
NAO     23.66 344 P     10 44.40  -2.2
        0.9s     3.80nm          4.0mb
BCAO    34.38 189 ePc   12 23.70  -0.1
        0.7s     6.00nm          4.6mb
                  id    12 26.90
LIC     41.49 226 P     13 22.00  -1.4
DAG     42.45 347 eP    13 30.00  -0.6
        0.8s     5.97nm          4.4mb
GKN     51.10  83 P     14 38.52  -1.0
        1.0s    13.00nm          4.8mb
DMN     51.65  83 P     14 41.54  -2.3
        1.0s    12.00nm          4.8mb
KKN     51.70  83 P     14 42.92  -1.3
        0.8s     6.00nm          4.6mb
PKI     51.91  83 P     14 44.80  -1.1
GUN     52.11  82 P     14 46.22  -1.2
        0.9s    14.00nm          4.9mb
YKA     73.82 341 eP    17 08.80  -1.8
        0.9s     0.70nm          3.7mb
     S.D. = 1.2  on  51 of  58 obs.
-------------------------------------
?  JAN  15, 1991  14h 28m 00.80± 1.21s
   38.482 N ± 7.0km   23.014 E ±20.4km
   DEPTH =  10.0km  (geophysicist)
 GREECE                          (364)
      MD 2.9 (ATH).

ATH      0.75 132 eP    28 15.50   0.0
                  eS    28 26.00
NEO      0.84  11 eP    28 16.80  -0.2
                  eS    28 27.00
VLI      1.76 182 eP    28 31.50   0.0
PLG      1.92  10 eP    28 34.10   0.2
     S.D. = 0.3  on   4 of   4 obs.
-------------------------------------
%  JAN  15, 1991  15h 38m 30.03± 0.90s
    2.387 N ± 6.0km   76.360 W ±16.6km
    DEPTH =  10.0km  (geophysicist)
 COLOMBIA                        (103)
      MD 3.4 (UVC).

PURC     0.06 182 iPd   38 32.80   0.0
SILC     0.30   4 eP    38 36.20  -0.2
SALC     0.67 330 iPc   38 43.49   0.0
                  eS    38 52.50
DIAC     0.91  10 iPc   38 48.14   0.5
                  eS    39 00.60
HOOC     1.11 346 iPc   38 51.01   0.0
                  eS    39 05.60
ANCC     1.23 336 ePc   38 53.29   0.4
CLMC     1.50 352 eP    38 56.38  -0.7
     S.D. = 0.5  on   7 of   7 obs.
-------------------------------------
%  JAN  15, 1991  15h 55m 14.25± 2.56s
   10.541 N ±12.9km   61.741 W ±18.2km
    DEPTH =  10.0km  (geophysicist)
 TRINIDAD                        ( 98)
      MD 3.0 (TRN).

TCE      0.16 356 eP    55 17.59  -0.3
                  eS    55 21.33
TRN      0.35  72 eP    55 20.21  -1.2
                  eS    55 25.76
TPP      0.36 128 eP    55 21.60  -0.1
                  eS    55 27.39
TBH      0.67  95 eP    55 27.78   0.3
                  eS    55 37.30
BOT      1.18  58 eP    55 37.59   1.3
                  eS    55 55.29
     S.D. = 1.3  on   5 of   5 obs.
-------------------------------------
&  JAN  15, 1991  18h 21m 27.43s
   62.181 N          153.089 W
    DEPTH =   4.7km
 CENTRAL ALASKA                  (  1)
      <AEIC>.

SKT      0.76 105 iP    21 41.97  -0.7
                  eS    21 52.82
NCG      0.90 150 eP    21 43.98  -1.2
                  eS    21 56.51
BGL      0.98 160 eP    21 45.43  -1.2
                  eS    21 59.26
CGLM     1.02 149 eP    21 46.13  -1.1
                  eS    22 00.29
CKL      1.05 160 eP    21 46.96  -0.9
                  eS    22 02.22
SPU      1.12 153 eP    21 48.17  -0.7
SUA      1.33 122 eP    21 52.01  -0.5
                  eS    22 10.54
CUT      1.34  79 eP    21 51.98  -0.6
                  eS    22 09.90
TTA      1.55 300 eP    21 53.37  -2.5
                  eS    22 14.47
PWA      1.61 108 eP    21 56.08  -0.5
SVW      1.62 229 iP    21 56.50  -0.3
                  eS    22 18.22
NCT      1.63 177 eP    21 56.32  -0.6
RDT      1.65 168 eP    21 56.96  -0.2
RDN      1.68 174 eP    21 57.28  -0.5
                  eS    22 20.80
NKA      1.69 148 eP    21 58.73   0.9
REF      1.71 174 eP    21 57.30  -0.9
RS2      1.73 175 eP    21 57.24  -1.3
RSO      1.73 174 eP    21 58.02  -0.6
RED      1.78 175 eP    21 58.50  -0.6
HUR      1.79  62 eP    21 58.76  -0.4
PMS      1.93 118 eP    21 59.61  -1.6
PLRM     1.97 106 eP    22 00.18  -1.6
GHO      2.01 100 eP    22 02.41  -0.1
                  eS    22 27.11
INE      2.13 180 eP    22 03.60  -0.7
SLKM     2.17 139 eP    22 03.04  -1.8
RND      2.30  56 eP    22 06.84   0.1
KNK      2.33 107 eP    22 05.32  -1.8
       27 obs. associated
-------------------------------------
?  JAN  15, 1991  19h 07m 09.33± 4.01s
   20.191 S ±83.5km  179.097 W ±60.6km
   DEPTH = 628.3 ± 21.4 km
   4.3mb (  4 obs.)
 FIJI ISLANDS REGION             (181)

OVA      3.20 321 iP    08 31.90  -0.4
KRO      3.20 333 ePc   08 31.90  -0.4
SGE      3.83 312 iPd   08 37.30   1.1
NDE      3.89 337 eP    08 36.50  -0.1
ASPA    43.59 257 iPd   14 21.70  -0.3
        0.8s    13.90nm          4.5mb
WRA     43.62 262 P     14 22.00  -0.2
        0.4s     2.80nm          4.1mb
RND     86.63  13 eP    18 48.60   0.2
FBA     88.17  13 ePd   18 55.00  -0.5
        0.8s    12.07nm          4.7mb
YKA     96.67  25 eP    19 34.00  -0.2
        0.7s     0.30nm          3.7mb
APO    138.65 350 ePKP  25 18.50  -7.8X
        0.4s     2.10nm
MUD    143.26 352 iPKP  25 33.90  -0.5
        0.8s     8.60nm
BSD    143.56 346 iPKP  25 36.30   1.3
        0.7s     9.00nm
KSP    147.09 342 iPKP  25 45.40   4.4X
CLL    147.52 346 iPKP  25 46.30   4.7X
     S.D. = 0.7  on  11 of  14 obs.
-------------------------------------
?  JAN  15, 1991  20h 58m 14.56± 0.90s
   36.785 N ± 9.0km   23.693 E ± 8.9km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN GREECE                 (368)
      ML 2.9 (ATH).

VLI      0.61 264 ePg   58 26.60  -0.3
ATH      1.19   1 iPgd  58 37.00   0.4
                  eSb   58 53.00
VAM      1.44 163 ePb   58 41.00   0.4
                  eSb   59 04.00
APE      1.50  79 ePb   58 41.10  -0.5
                  eSb   59 02.20
NPS      2.17 134 ePg   58 59.00   7.7X
     S.D. = 0.7  on   4 of   5 obs.
-------------------------------------
?  JAN  15, 1991  21h 00m 28.26± 3.59s
   13.556 S ±29.9km  167.289 E ±18.5km
   DEPTH = 263.2 ± 34.7 km
   4.0mb (  2 obs.)
 VANUATU ISLANDS                 (186)

DZM      8.51 185 iPc   02 29.20   0.4
                  iS    04 12.00
ASPA    33.13 247 iPd   06 40.80  -1.2
        0.9s     9.60nm          4.4mb
                  i     07 28.70
FBA     85.23  18 P     12 35.50  -0.5
GUN     88.85 299 PKP   12 54.80   0.2
PKI     89.16 298 PKP   12 56.20   0.2
KKN     89.33 299 PKP   12 56.90   0.2
DMN     89.43 298 PKP   12 57.40   0.2
GKN     89.93 299 PKP   12 59.00  -0.4
YKA     96.50  27 eP    13 27.60  -0.9
        0.5s     0.20nm          3.6mb
NB2    129.50 345 PKP   19 07.00   0.1
        0.8s     2.00nm
PDCR   143.16 134 (PKP) 19 32.00  -1.4
FLN    143.47 346 ePKP  19 30.30  -2.7X
        0.5s     4.35nm
     Z  20s     0.63um          5.4Msz
LDF    143.54 346 ePKP  19 31.30  -1.8
LOR    143.64 341 ePKP  19 32.10  -1.3
     Z  21s     0.82um          5.5Msz
GRR    143.91 347 ePKP  19 32.30  -1.4
        0.4s     4.00nm
SSF    143.94 341 iPKPc 19 33.20  -0.6
        0.5s     2.55nm
LPL    144.13 336 ePKP  19 34.20  -0.3
        0.6s     2.70nm
LPG    144.14 336 ePKP  19 34.20  -0.4
        0.7s     4.40nm
SMF    144.20 340 ePKP  19 33.50  -0.8
AVF    144.23 341 ePKP  19 33.60  -0.7
        0.8s     8.05nm
LPF    144.28 347 ePKP  19 33.90  -0.4
        0.5s    10.95nm
BGF    144.59 341 iPKPc 19 34.90  -0.1
```

15d 21h

	0.6s	14.90nm				
MAF	144.98	341	iPKPc	19	36.40	0.7
	0.6s	7.65nm				
TCF	145.03	342	iPKPc	19	36.40	0.6
	1.2s	31.25nm				
SBF	145.21	334	ePKP	19	36.70	0.5
	0.8s	36.25nm				
LSF	145.27	343	iPKPc	19	36.90	0.8
	1.0s	23.00nm				
MFF	145.40	345	iPKPc	19	37.50	1.2
	0.7s	19.85nm				
PGF	145.55	331	iPKPc	19	38.10	1.3
	0.7s	17.65nm				
FRF	145.79	335	iPKPc	19	38.70	1.6
	0.5s	11.65nm				
LRG	145.99	335	ePKP	19	39.50	2.1
	0.4s	9.15nm				
	Z 21s	0.52um			5.3Msz	
LMR	146.03	335	iPKPc	19	39.50	2.0
	0.5s	13.10nm				
RJF	146.13	342	ePKP	19	40.10	2.5X
	Z 20s	0.57um			5.4Msz	
CAF	146.30	341	ePKP	19	40.70	2.8X
LFF	146.69	342	ePKP	19	41.60	3.1X
	0.5s	8.00nm				
LPO	146.79	342	iPKPc	19	42.00	3.4X
	0.5s	4.35nm				
BCAO	147.87	257	iPKPc	19	46.90	5.6X
	0.3s	30.00nm				
EPF	148.55	341	iPKPc	19	47.00	5.4X
	S.D. = 1.1	on	30 of	37 obs.		

JAN 15, 1991 21h 01m 07.33± 0.40s
37.119 N ± 4.6km 29.526 E ± 4.8km
DEPTH = 10.0km (geophysicist)
4.2mb (2 obs.)
TURKEY (366)
MD 4.4 (ISK), 4.3 (ATH), 3.9 (HLW). Felt in the Cameli orea.

ELL	0.48	140	iPg	01	16.60	-0.5
BCK	0.91	68	iPn	01	25.00	0.1
KSL	1.00	177	ePn	01	26.00	-0.2
			eSn	01	42.00	
KHL	1.20	360	iPn	01	29.20	-0.6
ARG	1.44	232	iPnc	01	31.60	-1.9
			eSn	01	55.00	
ALT	1.99	13	ePn	01	42.30	0.9
IZM	2.20	306	ePn	01	44.00	-0.5
SMG	2.22	286	ePn	01	44.00	-0.7
DST	2.58	344	ePn	01	50.10	0.2
PPCY	3.19	133	eP	02	00.70	2.2
APE	3.20	270	ePb	02	07.50	8.9X
GPA	3.22	11	ePn	02	04.00	5.0X
EDC	3.48	339	ePn	02	07.00	4.5X
NPS	3.67	241	ePn	02	06.00	0.7
EZN	3.69	318	ePn	02	07.60	2.0
BBTK	3.72	42	eP	02	08.00	1.8
			iS	03	15.00	
CSS	3.76	124	eP	02	08.50	1.9
FAM	4.20	119	eP	02	16.50	3.7X
VAM	4.63	250	ePn	02	21.00	2.0
BHL	5.94	121	P	02	38.00	0.5
ADI	6.17	129	eP	02	40.00	-0.7
ZNT	6.65	135	eP	02	47.00	-0.5
			eS	04	00.00	
SHMJ	6.74	129	Pc	02	49.29	0.5
BURJ	7.10	131	Pc	02	54.77	0.9
JARJ	7.19	131	Pc	02	55.61	0.5
SALJ	7.19	133	Pc	02	54.97	-0.2
KFNJ	7.30	134	Pc	03	01.19	4.7X
HLW	7.40	168	eP	02	58.50	0.6
			eS	04	16.00	
MASJ	7.42	135	Pd	02	58.58	0.2
MDSJ	7.80	133	Pc	03	03.90	0.2
CSTJ	8.42	133	Pd	03	10.95	-1.3
MAIO	24.00	83	eP	06	25.00	2.0
GKN	46.77	85	P	09	37.62	-1.3
	0.7s	31.00nm			5.5mb X	
DMN	47.32	85	P	09	42.30	-1.1
	0.6s	38.00nm			5.6mb X	
KKN	47.37	84	P	09	42.30	-1.5
	0.6s	17.00nm			5.3mb X	
PKI	47.57	85	P	09	43.90	-1.6
	0.7s	19.00nm			5.3mb X	
GUN	47.80	84	P	09	45.66	-1.6
CHG	62.69	86	eP	11	30.00	-4.8X
CHTO	62.69	86	P	11	33.00	-1.8
	1.2s	7.29nm			4.7mb	
YKA	76.62	344	eP	12	58.20	-1.2
	1.0s	0.70nm			3.7mb	
	S.D. = 1.3	on	34 of	40 obs.		

& JAN 15, 1991 21h 36m 19.45s
62.396 N 149.554 W
DEPTH = 58.6km
3.4mb (2 obs.)
CENTRAL ALASKA (1)
<AEIC>.

CUT	0.33	272	eP	36	29.30	-0.5
HUR	0.59	356	eP	36	31.78	-0.6
			eS	36	41.57	
GHO	0.69	154	iP	36	32.97	-0.8
			iS	36	43.97	
PWA	0.76	192	iP	36	33.91	-0.6
PLRM	0.83	166	iP	36	34.46	-0.9
			eS	36	46.95	
PMR	0.83	166	iPc	36	34.50	-0.8
SKT	1.02	247	iP	36	37.26	-0.6
			eS	36	51.78	
RND	1.06	17	iP	36	37.65	-0.9
			eS	36	51.73	
SUA	1.09	212	iP	36	38.76	-0.2
			eS	36	54.68	
KNK	1.12	152	iP	36	38.61	-0.6
			eS	36	53.63	
PMS	1.16	180	iP	36	39.21	-0.5
SCM	1.19	117	iP	36	39.23	-1.0
			eS	36	55.78	
MCK	1.37	12	eP	36	42.03	-0.7
NCG	1.58	232	eP	36	45.36	-0.4
CGLM	1.60	228	eP	36	45.56	-0.3
TOA	1.61	99	ePc	36	46.00	0.0
SPU	1.70	225	eP	36	46.93	-0.4
BGL	1.76	231	eP	36	48.54	0.4
BWN	1.78	1	eP	36	47.57	-0.8
CKL	1.79	229	eP	36	48.62	0.1
NKA	1.84	207	eP	36	50.67	1.5
SDG	1.87	84	eP	36	49.57	0.0
			eS	37	14.38	
GLI	1.92	141	iP	36	49.30	-1.0
SLKM	1.92	190	eP	36	49.49	-0.9
KLU	1.94	116	iP	36	49.83	-0.8
VZW	1.96	132	iP	36	49.63	-1.3
TZL	1.97	99	eP	36	51.13	0.2
PAX	1.97	71	eP	36	50.66	-0.4
			eS	37	14.68	
VLZ	1.99	128	eP	36	49.79	-1.4
THY	2.02	58	eP	36	53.27	1.5
NEA	2.20	5	eP	36	52.73	-1.5
KNIM	2.23	156	eP	36	52.64	-2.0
RDT	2.28	218	eP	36	55.02	-0.4
SEW	2.30	179	eP	36	55.82	0.2
HDA	2.33	29	eP	36	54.73	-1.4
CCB	2.39	18	eP	36	55.28	-1.6
DJE	2.40	45	eP	36	54.15	-2.9
RDN	2.44	221	eP	36	57.23	-0.4
REF	2.44	220	eP	36	57.82	0.1
NCT	2.45	223	eP	36	58.14	0.3
RS2	2.48	220	eP	36	59.23	0.9
RSO	2.48	220	eP	36	58.29	0.0
HIN	2.49	142	eP	36	56.93	-1.3
NNL	2.51	200	eP	37	01.55	3.0
RED	2.52	219	eP	36	58.66	-0.1
MTU	2.59	158	eP	36	59.67	0.0
CVA	2.60	134	eP	36	58.86	-1.0
FBA	2.63	17	iPc	36	58.80	-1.5
MDM	2.64	12	iP	36	59.06	-1.4
BRLK	2.72	194	eP	37	00.91	-0.7
GLM	2.77	19	iP	37	00.82	-1.6
SGAM	2.82	130	eP	37	01.06	-2.0
GLB	2.88	107	eP	37	02.43	-1.5
INE	2.89	217	eP	37	03.54	-0.7
CNPM	2.99	197	eP	37	05.42	-0.1
TTA	3.03	283	ePc	37	04.30	-1.7
RAGM	3.09	128	eP	37	05.52	-1.4
TMW	3.15	70	eP	37	07.57	-0.1
SVW	3.16	249	eP	37	06.50	-1.4
OPT	3.28	215	eP	37	10.32	0.7
PDB	3.45	223	eP	37	10.70	-1.2
TGL	3.61	114	eP	37	12.07	-2.2
BALM	3.69	108	eP	37	13.23	-2.2
WAX	3.77	118	eP	37	14.09	-2.3
CDD	4.02	212	eP	37	19.06	-0.8
IMA	4.10	336	ePc	37	19.30	-1.9
CTGM	4.17	106	eP	37	20.17	-2.0
INK	8.92	41	P	38	26.00	-2.1
	0.5s	1.40nm			4.2mb	
YKA	16.06	74	eP	40	04.10	1.6
	0.6s	0.30nm			2.6mb	
	69 obs. associoted					

& JAN 15, 1991 22h 23m 33.71s
32.953 N 80.146 W
DEPTH = 2.0km
SOUTH CAROLINA (511)
<GLD>. MD 1.7 (GLD). Felt.

MGS	0.06	176	iPc	23	35.11	0.1
			eS	23	36.47	
RGRS	0.06	220	iPd	23	35.34	0.3
			eS	23	36.25	
BCS	0.08	69	iPd	23	35.45	0.1
			eS	23	36.39	
SVS	0.09	280	eP	23	36.01	0.5
WSS	0.15	225	iPd	23	36.69	0.0
			eS	23	39.41	
TWB	0.17	13	eP	23	37.32	0.3
			eS	23	39.01	
HBF	0.20	264	eP	23	37.19	-0.4
			eS	23	39.32	
CFS	0.33	357	eP	23	40.56	0.3
			eS	23	43.72	
SGS	0.39	308	eP	23	41.80	0.3
VRN	0.67	277	eP	23	46.57	-0.6
JSC	1.62	325	eP	24	02.36	-0.9
			eS	24	24.55	
	11 obs. associoted					

% JAN 15, 1991 22h 41m 03.78± 1.13s
43.901 N ±12.7km 12.020 E ± 6.7km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)
MD 2.6 (ROM).

SFI	0.12	279	Pd	41	08.30	1.5
			eSg	41	10.80	
CRE	0.28	190	Pd	41	09.00	-0.7
			iSg	41	12.30	
RSM	0.31	85	P	41	09.30	-1.0
FIR	0.57	258	ePg	41	13.00	-2.2
			iSg	41	21.00	
ARV	0.78	121	P	41	19.40	0.4
			eSg	41	31.00	
ASS	0.95	150	P	41	23.10	1.1
			eSg	41	35.70	
PII	1.10	261	P	41	25.20	0.8
			eSn	41	40.80	
	S.D. = 1.6	on	7 of	7 obs.		

JAN 16, 1991 01h 40m 33.82± 0.22s
20.132 S ± 3.7km 68.638 W ± 5.3km
DEPTH = 123.4km (26 depth phases)
5.1mb (22 obs.)
CHILE-BOLIVIA BORDER REGION (124)

CNCB	3.36	11	iPc	41	29.10	2.8X
LPB	3.62	8	Pc	41	30.90	1.3
	1.0s	1460.00nm				
ZOBO	3.87	7	iPc	41	35.00	1.8
ANT	3.92	205	iPd	41	31.50	-1.7
ARE	4.55	323	iP	41	39.00	-3.0X
			iS	42	26.50	
SIV	8.29	61	iPc	42	31.90	-0.8
RTRS	10.02	184	eP	42	53.90	-1.9
RTLL	11.15	179	eP	43	07.20	-3.6X
NNA	11.30	315	iPc	43	07.80	-5.1X
	0.7s	30.82nm			5.1mb	
			eS	45	10.50	
RTCB	11.31	181	e(P)	43	09.50	-3.4X
PT10	11.32	314	eP	43	08.00	-5.1X
			e(S)	45	05.00	
ROCH	12.96	189	eP	43	35.00	0.3
PEL	13.09	188	iPc	43	36.50	0.3
FCH	13.23	186	ePc	43	39.50	1.3
SAN	13.39	187	eP	43	40.00	-0.1
PCH	13.54	187	ePc	43	42.00	-0.1
LCCH	13.54	191	iP	43	41.60	-0.4
TACH	13.62	188	ePc	43	42.50	-0.6
ITB1	13.92	111	eP	43	48.00	1.0

LNV	13.99	190	ePd	43	46.50	-1.2	CLC	72.42	320	eP	51	48.00	-0.5	% JAN 16, 1991 02h 27m 32.51± 0.83s									
ITB	14.12	112	eP	43	51.00	1.5				e	52	19.00	124km	43.779 N ± 8.7km 11.896 E ± 7.8km									
ITB7	14.24	113	eP	43	46.00	-5.1X	ISA	72.85	319	eP	51	51.00	0.0	DEPTH = 10.0km (geophysicist)									
PPD	16.28	100	eP	44	17.10	0.4				e	52	14.00	88kmX	CENTRAL ITALY (381)									
			e	44	18.70					e	52	35.00		MD 2.6 (ROM).									
			i	44	19.60		BW06	73.07	330	eP	51	51.00	-1.4										
			i	44	35.30			1.0s		8.33nm			4.5mb	SFI	0.15	347	Pd	27	36.30	0.4			
BAO	20.15	81	eP	45	08.00	7.4X				epP	52	22.20	125km				eSg	27	38.90				
ANGL	21.47	335	eP	45	28.00	13.8X				esP	52	36.40		CRE	0.16	165	Pc	27	36.80	0.6			
VC1	21.60	333	eP	45	17.50	1.8	FRI	74.47	320	eP	52	01.90	1.6				eSg	27	39.90				
CAYA	22.07	334	eP	45	22.20	1.9	PRI	74.51	319	eP	52	01.50	0.8	FIR	0.46	270	ePg	27	41.50	-0.4			
GGP	22.10	333	eP	45	22.50	1.8				epP	52	32.00	121km				iSg	27	49.00				
YANA	22.14	333	eP	45	22.30	1.4				esP	52	45.50		ARV	0.81	110	P	27	47.60	-0.6			
COTA	22.45	334	eP	45	17.50	-6.5X	RUV	74.57	259	iP	52	02.90	1.6				eSg	27	59.90				
CUMC	22.83	336	eP	45	32.21	4.6X		1.1s		35.00nm			5.1mb	ASS	0.90	142	P	27	49.80	0.0			
SILC	23.90	341	eP	45	38.81	0.9	SCH	74.66	1	eP	52	00.00	-1.0				eSg	28	03.70				
SALC	24.29	340	eP	45	40.80	-0.5				pP	52	32.00	128km	S.D. = 0.7 on 5 of 5 obs.									
DIAC	24.43	341	eP	45	43.66	1.0	VAH	74.78	259	iP	52	04.10	1.6	---									
HOQC	24.73	341	eP	45	44.81	-0.8		1.1s		35.00nm			5.1mb	% JAN 16, 1991 03h 17m 06.07± 1.33s									
ANCC	24.85	340	eP	45	46.41	0.0	TPT	74.84	259	iP	52	04.60	1.7	32.808 S ±11.8km 70.584 W ±13.9km									
BUGC	25.02	342	eP	45	48.69	0.5		1.1s		45.00nm			5.2mb	DEPTH = 33.0km (normal)									
CLMC	25.10	341	eP	45	48.41	-0.5	LLA	74.99	319	ePc	52	03.80	0.5	CHILE-ARGENTINA BORDER REGION (127)									
HOBC	25.42	342	eP	45	51.40	-0.5				epP	52	34.70	123km										
SOB1	28.90	72	eP	46	23.70	0.4				esP	52	47.80		JACH	0.13	357	eP	17	12.00	-0.2			
			e	46	52.30	134kmX	PRS	75.07	318	eP	52	04.20	0.4				iS	17	20.50				
PDCR	29.28	80	eP	46	25.60	-1.1	PMO	75.09	259	iP	52	06.00	1.7	ROCH	0.39	245	iPd	17	16.00	0.7			
			i	46	26.40	3kmX		1.1s		30.00nm			5.0mb				iS	17	26.80				
			e	46	39.60		CMB	75.55	320	eP	52	06.30	-0.3	FCH	0.57	155	iPd	17	17.90	-0.1			
			e	46	53.60					epP	52	37.30	123km				iS	17	30.00				
RSCP	57.70	344	P	50	11.40	-2.3				esP	52	47.30		SAN	0.65	186	eP	17	20.50	1.7			
			pP	50	42.00	128km	PAE	75.86	256	eP	52	11.00	2.3				iS	17	32.40				
RKT	61.26	254	iP	50	39.00	0.5		1.1s		50.00nm			5.2mb	PCH	0.81	176	iPc	17	21.00	-0.2			
	0.8s		20.00nm			5.2mb	MHC	75.88	319	eP	52	09.20	0.7				iS	17	36.20				
FVM	61.33	340	iPd	50	35.50	-3.1X				epP	53	39.90	405kmX	TACH	0.89	199	iPd	17	21.70	-0.6			
	0.8s		18.94nm			5.1mb	LRM	76.73	330	ePd	52	13.30	0.1				iS	17	37.90				
			ipP	51	06.90	130km	ORV	77.20	321	eP	52	16.00	0.4	LNV	1.34	211	iPd	17	27.20	-1.3			
			esP	51	19.80					epP	52	47.20	123km				iS	17	49.00				
TUL	61.38	335	eP	50	36.80	-2.2				esP	53	00.50		S.D. = 1.2 on 7 of 7 obs.									
	1.0s		45.50nm			5.4mb	WDC	78.47	321	eP	52	21.20	-1.4	---									
			i	51	07.10	125km				epP	52	52.20	122km	& JAN 16, 1991 04h 14m 12.64s									
			e	51	19.90					esP	53	05.70		60.188 N 150.827 W									
MEO	61.58	332	iPd	50	38.00	-2.3	SES	79.56	334	ePd	52	27.60	-0.8	DEPTH = 40.2km									
ALQ	65.50	326	eP	51	04.50	-1.6		0.8s		30.00nm			5.1mb	KENAI PENINSULA, ALASKA (14)									
	1.0s		12.00nm			4.8mb				pP	52	59.00	124km	<AEIC>.									
			epP	51	34.00	120km	FFC	79.82	341	eP	52	29.00	-0.6										
ANMO	65.50	326	ePc	51	04.20	-1.9		1.0s		15.00nm			4.7mb	NNL	0.28	238	iP	14	21.29	0.6			
	1.2s		20.70nm			4.9mb	NEW	80.70	330	eP	52	33.30	-1.1	BRLK	0.43	184	iP	14	21.87	-0.6			
			ipP	51	34.20	122km		0.7s		12.00nm			4.8mb				eS	14	29.20				
			esP	51	49.10					esP	53	18.90		SLKM	0.44	43	eP	14	22.35	-0.3			
GAC	65.81	355	eP	51	06.50	-1.1	PNT	82.62	329	iP	52	45.00	0.7				eS	14	30.44				
	1.0s		13.00nm			4.8mb		0.8s		29.00nm			5.2mb	NKA	0.59	340	eP	14	26.00	1.4			
			pP	51	37.00	124km	EDM	82.64	335	iPd	52	43.40	-1.0	HOM	0.67	218	eP	14	25.31	-0.4			
LIC	67.77	74	Pc	51	19.68	-1.0				pP	53	15.20	124km				eS	14	35.10				
TIC	67.95	74	Pc	51	20.88	-0.9	HVD	83.40	120	eP	52	51.00	1.9	SEW	0.69	96	iP	14	25.20	-0.8			
KIC	68.08	74	Pc	51	21.84	-0.8		0.9s		3277.31nm			7.2mb X	CNPM	0.70	197	iP	14	25.25	-0.9			
	0.6s		87.50nm			5.8mb	PGC	84.09	327	eP	52	52.00	0.3				eS	14	34.88				
GLD	68.67	330	ePd	51	25.10	-0.9	TOL	84.74	44	eP	52	57.00	1.8	RDT	0.87	297	iP	14	27.91	-0.8			
	1.0s		44.00nm			5.3mb	SEK	85.92	119	eP	53	04.00	2.3	REF	0.98	289	eP	14	29.38	-0.9			
			epP	51	55.70	124km		0.5s		1126.76nm			7.1mb X				eS	14	42.85				
			esP	52	09.90		SLR	87.38	116	iPc	53	08.50	-0.3	RED	1.00	284	iP	14	29.50	-0.9			
GOL	68.70	330	P	51	24.90	-1.3	BCAO	88.86	85	ePc	53	18.10	2.3				eS	14	42.39				
	0.7s		13.35nm			4.9mb		0.7s		6.00nm			4.8mb	RSO	1.00	287	eP	14	29.63	-0.9			
			pP	51	55.80	125km				id	53	50.00	123km	RS2	1.00	287	eP	14	29.69	-0.9			
GLA	68.86	319	eP	51	27.00	-0.1	BUL	89.67	111	eP	53	26.00	6.3X	RDN	1.02	290	iP	14	29.65	-1.1			
			e	51	57.00	121km	YKA	89.99	340	eP	53	19.20	-0.8				eS	14	43.02				
			e	52	11.00			0.6s		19.10nm			5.4mb	NCT	1.11	291	eP	14	30.98	-1.1			
PV09	69.60	327	P	51	31.00	-0.8	INK	99.75	340	eP	54	04.50	0.1	INE	1.13	264	iP	14	31.20	-1.1			
BAR	69.75	318	eP	51	32.00	-0.6	ASPA	131.24	208	ePKP	59	33.10	-0.4				eS	14	45.93				
			e	52	03.00	125km		0.4s		11.90nm				SPU	1.17	329	eP	14	32.30	-0.5			
RVR	71.07	319	eP	51	40.00	-0.5				e	00	06.30		PMS	1.23	30	eP	14	33.69	0.0			
			e	52	11.00	124km	WRA	134.25	211	PKP	59	39.00	-0.3	CKL	1.26	324	iP	14	33.73	-0.4			
GSC	71.59	320	eP	51	44.00	0.3		0.5s		10.30nm							eS	14	50.35				
			e	52	13.00	115km	KOD	145.90	102	ePKP	00	03.00	2.2	CGLM	1.26	333	eP	14	33.93	-0.3			
			e	52	28.00		GBA	146.93	96	PKP	00	00.00	-1.9	CRP	1.26	329	eP	14	34.53	0.2			
MWC	71.64	318	eP	51	44.00	-0.1		0.3s		2.40nm				OPT	1.32	247	eP	14	34.18	-0.8			
			e	52	14.00	120km	NDI	147.85	68	ePKP	00	08.50	5.4X	BGL	1.32	325	eP	14	34.66	-0.4			
			e	52	28.00		HYB	148.85	89	ePKP	00	11.50	6.5X	NCG	1.38	332	eP	14	35.94	0.0			
RSSD	71.68	334	ePc	51	43.00	-1.2	WMQ	149.21	35	ePKP	00	09.50	4.6X	KNIM	1.55	83	eP	14	36.15	-2.0			
			ipP	52	15.20	130km				sPKP	00	44.00		MTU	1.60	96	eP	14	37.45	-1.5			
			isP	52	27.50		MDJ	151.27	332	ePKP	00	08.50	0.7	KNK	1.69	42	eP	14	39.39	-0.8			
WEGH	71.79	77	eP	51	44.00	-1.2	MAT	151.40	311	iPKPd	00	14.50	6.2X	PDB	1.74	258	eP	14	40.48	-0.4			
SBB	71.80	319	eP	51	45.00	0.1		1.1s		29.11nm				SKT	1.83	350	eP	14	41.99	-0.2			
			e	52	15.00	120km	GTA	158.37	25	PKP	00	13.80	-3.9X	VZW	2.28	66	eP	14	45.83	-2.9			
			e	52	29.00		TIY	162.46	357	ePKP	00	24.80	2.9X	VLZ	2.41	65	eP	14	48.18	-2.3			
LEGH	71.94	77	eP	51	45.00	-1.1	XAN	165.98	8	PKP	00	26.80	1.6	KLU	2.74	59	eP	14	53.48	-1.7			
KUK	71.98	76	eP	51	45.50	-0.8	S.D. = 1.2 on 91 of 110 obs.							31 obs. associated									
KOGH	72.06	76	eP	51	46.00	-0.8	---							---									

16d 04h

JAN 16, 1991 04h 41m 32.18± 0.43s
44.306 N ± 3.2km 7.328 E ± 4.6km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.3 (GEN), 2.1 (LDG).

STV	0.06	182	P	41	34.86	0.3
			S	41	36.72	
ENR	0.10	140	P	41	35.41	0.4
			S	41	37.56	
PZZ	0.26	321	P	41	36.74	-0.9
			S	41	39.61	
TOUF	0.30	191	Pg	41	38.71	0.2
AUTN	0.32	167	Pg	41	39.08	0.2
			Sg	41	44.11	
SAOF	0.36	153	Pg	41	39.78	0.2
			Sg	41	45.26	
ROB	0.39	92	P	41	40.23	0.0
			S	41	46.28	
AURF	0.42	180	Pg	41	40.75	0.0
			Sg	41	46.84	
MVIF	0.43	197	Pg	41	41.21	0.2
			Sg	41	46.93	
SBF	0.45	170	Pg	41	41.50	0.1
			Sg	41	47.90	
BHB	0.54	355	P	41	41.35	-1.7
IMI	0.57	134	P	41	43.38	-0.3
			S	41	51.11	
CALN	0.64	210	Pg	41	44.30	-0.8
FIN	0.64	98	P	41	44.43	-0.6
			S	41	53.25	
RRL	0.73	328	P	41	44.74	-1.9
FRF	0.89	214	Pg	41	49.30	0.0
			Sg	42	00.10	
PCP	0.90	74	P	41	49.35	-0.2
LRG	1.10	220	Pg	41	52.70	-0.1
			Sg	42	07.00	
LMR	1.14	212	Pg	41	53.40	-0.1
			Sg	42	07.60	
LPG	1.26	341	Pg	41	58.40	2.6
LPL	1.28	341	Pg	41	58.50	2.4

S.D. = 1.1 on 21 of 21 abs.

% JAN 16, 1991 04h 45m 21.36± 0.68s
44.358 N ± 6.0km 7.307 E ± 7.3km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.6 (GEN).

STV	0.11	174	P	45	24.38	0.0
			S	45	26.19	
ENR	0.15	148	P	45	24.93	-0.1
			S	45	27.19	
PZZ	0.21	315	P	45	26.33	0.3
			S	45	29.32	
ROB	0.41	99	P	45	30.02	0.3
			S	45	35.56	
BHB	0.49	356	P	45	30.79	-0.4
			S	45	37.40	
IMI	0.61	137	P	45	33.41	-0.4
FIN	0.66	103	P	45	34.84	0.2

S.D. = 0.4 on 7 of 7 abs.

JAN 16, 1991 05h 04m 10.74± 0.73s
41.114 N ± 6.3km 22.449 E ± 5.6km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MD 1.7 (THE). ML 1.7 (SKO).

GRG	0.16	193	iPc	04	14.72	0.2
			iS	04	17.44	
VAY	0.23	24	iPg	04	15.40	-0.2
			iSg	04	18.60	
KNT	0.34	82	ePc	04	18.24	0.4
			eS	04	23.28	
THE	0.62	141	ePd	04	22.76	-0.5
			eS	04	31.16	
SOH	0.75	113	ePd	04	25.28	-0.1
			eS	04	35.68	
SRS	0.86	89	ePc	04	27.44	0.1
			eS	04	39.44	
FNA	0.88	248	ePc	04	27.64	0.0
			eS	04	39.20	

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

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* JAN 16, 1991 05h 12m 12.56± 1.24s
32.836 S ±11.3km 71.146 W ±13.1km
DEPTH = 67.5 ± 14.7 km
NEAR COAST OF CENTRAL CHILE (135)
Felt (III) at Valparaiso and (II) at Santiago.

ROCH	0.18	140	iPc	12	22.10	-1.1
IHA	0.46	245	iPd	12	24.40	-0.5
			iS	12	34.20	
JACH	0.49	72	iPd	12	23.50	-1.9
			iS	12	31.50	
PEL	0.49	128	iPd	12	24.60	-0.7
			iS	12	35.60	
LCCH	0.73	209	iPc	12	28.50	0.7
			iS	12	39.00	
SAN	0.74	147	iPd	12	27.60	-0.4
			iS	12	38.70	
TACH	0.83	168	iPd	12	29.50	0.4
			iS	12	42.40	
FCH	0.87	125	iPd	12	39.40	9.5X
			iS	12	42.70	
PCH	0.94	146	iPd	12	30.50	-0.1
			iS	12	44.00	
LNV	1.14	191	iPc	12	34.10	1.2
			iS	12	50.00	
MDZ	1.93	92	iP	12	46.00	2.1
			i	13	00.70	
			i	13	14.50	
RTCV	2.41	67	ePd	12	51.10	0.6
RTLL	2.72	57	iPd	12	55.50	0.6
RTRS	3.02	29	ePd	13	01.00	2.0
PPD	20.60	63	eP	16	45.50	-2.9

S.D. = 1.6 on 14 of 15 abs.

JAN 16, 1991 06h 00m 32.22± 0.49s
34.409 N ± 6.0km 32.223 E ± 4.7km
DEPTH = 52.7 ± 12.3 km
3.7mb (1 abs.)
CYPRUS (372)
MD 4.0 (HLW). Felt (III) at Paphas.

PPCY	0.49	12	ePc	00	43.30	-0.2
			eS	00	50.80	
CSS	1.07	59	ePd	00	50.50	-0.6
			eS	01	06.00	
FAM	1.58	68	eP	00	59.70	1.5
KSL	2.75	309	ePg	01	16.00	1.2
BHL	2.89	99	Pn	01	16.00	-0.9
			Sn	01	46.00	
BCK	3.32	337	iPn	01	25.00	2.0
MKT	4.24	144	eP	01	36.00	0.1
			eS	02	23.00	
KAP	4.30	287	ePb	01	37.00	0.3
KHL	4.47	332	iPn	01	39.50	0.3
KOT	4.48	184	ePn	01	40.00	0.8
			eSn	02	28.25	
GAZ	4.90	54	ePn	01	44.20	-1.0
ALT	4.94	341	ePn	01	45.80	0.0
BBTK	5.44	4	eP	02	09.00	16.1X
SMG	5.47	309	ePb	01	52.10	-1.0
NPS	5.50	281	ePn	01	53.00	-0.7
IZM	5.64	316	iPn	01	55.20	-0.4
HQL	5.66	154	iPc	02	05.30	9.5X
DST	5.93	332	eP	01	59.20	-0.5
APE	6.05	298	ePn	02	01.00	-0.4
VAM	6.67	281	ePn	02	09.00	-0.9
YKA	79.81	345	eP	12	36.30	0.4
	0.5s		0.5 0nm		3.7mb	

S.D. = 1.0 on 19 of 21 obs.

JAN 16, 1991 06h 04m 55.31± 0.26s
13.783 N ± 5.0km 90.687 W ± 5.4km
DEPTH = 69.1km (5 depth phases)
4.8mb (15 obs.)
NEAR COAST OF GUATEMALA (71)
Mo=3.0•10••17 Nm (PPT). Felt (IV) at San Salvador, El Salvador.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 28C
Centroid Location:
Origin Time 06:04:56.3 0.4
Lat 13.66N 0.04 Lon 90.51W 0.06
Dep 92.3 4.0 Half-duration 2.2
Moment Tensor; Scale 10••17 Nm
Mrr=-0.26 0.06 Mtt=-0.54 0.11
Mff= 0.80 0.14 Mrt= 1.52 0.05
Mrf=-1.14 0.06 Mtf=-0.24 0.08
Principal Axes:

	Val=	Plg=	Azm=
T	2.02	38	57
N	0.05	20	310
P	-2.06	45	199

Best Double Couple:Mo=2.0•10••17
NP1:Strike=209 Dip=21 Slip= -11
NP2: 309 86 -110

TME	1.31	80	iPc	05	20.00	1.8
VSS	1.41	91	iPd	05	21.00	1.5
SJAS	1.48	94	iPc	05	21.70	1.2
LFU	1.53	91	iPc	05	22.50	1.4
OZA	1.66	99	iPc	05	23.70	0.8
CLMC	17.06	124	eP	08	51.27	0.2
HOBC	17.14	122	ePc	08	51.97	-0.1
HOQC	17.25	125	eP	08	55.15	1.6
BUGC	17.30	123	eP	08	55.08	1.0
SALC	17.50	127	eP	08	57.18	0.6
DIAC	17.70	125	ePc	09	00.22	1.2
SILC	17.96	127	eP	09	03.75	1.3
CUMC	17.98	134	eP	09	03.32	0.6
COTA	18.11	137	eP	09	05.70	1.3
PURC	18.17	128	eP	09	05.85	0.7
YANA	18.29	138	iP+	09	08.00	1.4
GGP	18.32	138	eP	09	08.30	1.2
CAYA	18.54	136	eP	09	10.80	1.2
VC1	18.80	139	eP	09	13.00	0.3
ANGL	19.18	136	eP	09	07.00	-9.9X
SDV	20.25	102	eP	09	25.00	-2.8
TOV	20.83	99	eP	09	32.30	-1.3
PWLA	21.24	6	P	09	38.00	0.5
SGS	21.43	24	P	09	41.80	2.4
PRM	21.58	19	P	09	42.00	1.1
OLY	21.64	358	P	09	45.00	3.5X
MEO	22.09	343	iPc	09	44.70	-1.4
RSCP	22.21	11	P	09	47.00	-0.2
LHS	22.46	22	P	09	50.00	0.3
			pP	10	08.00	82kmX
TUL	22.51	349	eP	09	49.80	-0.3
	0.8s		51.30nm		5.0mb	
Z	23s		2.49um		4.6MszX	
N	22s		1.34um			
E	25s		0.83um			
			eS	13	38.90	
			LR	15	33.80	
GBTN	22.56	14	P	09	51.40	0.8
TKL	22.65	15	P	09	52.40	0.8
ELC	23.44	3	P	09	59.10	0.0
FVM	24.10	1	P	10	05.70	0.1
BLA	25.07	20	P	10	16.30	1.4
	0.8s		23.49nm		4.7mb	
			pP	10	31.60	65km
ALQ	25.43	329	eP	10	19.00	0.5
	0.9s		7.77nm		4.2mb	
ANMO	25.43	329	P	10	18.50	0.0
	0.9s		25.21nm		4.7mb	
CBN	27.04	24	eP	10	33.00	0.0
			e	10	49.00	
CLE	28.73	14	iP	10	47.20	-1.0
GOL	28.87	336	P	10	49.00	-0.8
GLA	29.18	315	eP	10	53.00	0.6
			e	11	08.00	
PLM	30.76	314	eP	11	08.00	1.5
			e	11	23.00	
MSU	31.13	326	P	11	09.00	-0.8
GSC	31.82	317	eP	11	17.00	1.3
			e	11	32.00	
MWC	32.06	314	eP	11	20.00	2.0
			e	11	36.00	
SBB	32.16	315	eP	11	19.00	0.3
			e	11	35.00	
RSSD	32.32	342	P	11	20.00	-0.1
CLC	32.64	317	eP	11	23.00	0.2
			e	11	39.00	
ISA	33.14	316	eP	11	29.00	1.8
			e	11	44.00	
RSNY	33.62	21	P	11	30.00	-1.2
TNP	33.76	321	P	11	33.40	0.7
	1.2s		20.16nm		4.9mb	
			pP	11	49.00	63km
HBVT	33.99	23	P	11	31.60	-2.8
BONR	34.36	320	P	11	39.00	1.0
			pP	11	55.60	68km
PHAM	34.55	315	P	11	40.20	0.9
FRI	34.71	317	eP	11	41.10	0.5

```
PRI     34.89 315 eP     11 44.50   2.2
LLA     35.33 315 eP     11 46.90   0.9
                  e      12 03.00
PRS     35.48 315 eP     11 48.80   1.6
ARE     35.54 147 eP     11 48.00  -0.2
CMB     35.74 318 eP     11 50.80   1.4
                  e      12 06.20
MHC     36.19 316 eP     11 55.30   2.0
LRM     36.85 334 eP     11 58.90   0.0
ZOBO    37.27 143 iPd    12 02.50  -0.5
                  S      18 00.00
                  LR     24 10.00
ORV     37.32 319 e(P)   12 04.00   1.4
LPB     37.49 143 P      12 03.30  -1.4
     Z  22s      2.22um          4.9Msz
                  eLR    24 14.00
CNCB    37.78 143 P      12 06.00  -1.3
CCH     39.32 141 P      12 18.90  -1.0
FHC     39.59 319 eP     12 24.50   2.8X
SES     40.10 340 eP     12 27.00   1.3
SIV     41.62 134 iPd    12 38.50   0.0
FFC     41.80 350 iPc    12 38.30  -1.2
        0.5s    11.00nm          4.9mb
LON     41.94 328 P      12 41.00   0.1
PNT     42.65 332 eP     12 47.00   0.4
        0.6s    14.00nm          4.9mb
EDM     43.26 340 iP     12 50.00  -1.5
SCH     45.00  19 ePc    13 03.10  -2.4
        0.4s    54.00nm          5.7mb
                  pP     13 21.00  72km
PEL     50.42 15B iPd    13 47.00  -0.9
FCH     50.73 158 eP     13 50.00  -0.6
MDZ     50.88 156 eP     13 50.80  -0.7
LNV     50.90 159 eP     13 50.00  -1.4
BAO     51.35 123 ePc    13 54.80  -0.5
YKA     51.54 346 eP     13 54.00  -2.0
        0.7s    2.50nm           4.4mb
PPD     52.51 132 eP     14 01.60  -2.3
SOB1    54.44 112 eP     14 16.70  -1.5
                  e      14 33.20
RKT     56.78 230 iP     14 34.40  -0.5
        1.0s    50.00nm          5.6mb
PDCR    57.40 115 eP     14 35.60  -3.8X
                  e      14 37.50
INK     61.01 343 eP     15 01.00  -2.5
                  pP     15 21.00  78km
TOA     62.11 334 eP     15 11.30   0.2
PMR     63.19 333 eP     15 14.30  -3.8X
FBA     63.95 337 eP     15 21.20  -1.9
MBC     64.29 353 eP     15 22.50  -2.6
        0.6s    7.00nm           4.8mb
SVW     65.99 331 eP     15 34.60  -1.8
TTA     66.67 333 eP     15 39.70  -1.0
        0.8s    4.90nm           4.5mb
DAG     72.55  13 eP     16 13.50  -2.9
        0.5s    9.86nm           5.0mb
NB2     83.73  29 P      17 19.60   1.8
        0.9s    2.30nm           4.2mb
TIC     84.25  85 P      17 20.28  -1.0
LIC     84.34  85 P      17 20.00  -1.7
KIC     84.59  85 P      17 21.26  -1.7
        0.6s    6.50nm           4.9mb
GRF     87.15  40 e(P)   17 52.00  17.0X
     Z  22s      0.40um          4.8Msz
                  e      28 09.00
WMO    122.66   1 ePKP   23 44.00  -0.9
     Z  32s      1.15um          5.3MszX
TIY    124.36 338 ePKP   23 49.40   1.0
     Z  28s      1.00um          5.3MszX
LZH    128.53 345 ePKP   23 55.00  -1.6
     Z  27s      0.99um          5.4MszX
                  sPKP   24 23.00
XAN    128.91 339 PKP    23 57.50   0.3
WHN    129.77 332 ePKP   24 01.00   2.1
WRA    136.57 256 PKP    24 12.00  -0.1
        0.6s    5.50nm
ASPA   136.79 250 ePKP   24 10.60  -1.9
        0.7s    5.40nm
GKN    138.22   6 PKP    24 05.44  -9.8X
GUN    138.42   5 PKP    24 06.44  -9.4X
KKN    138.49   5 PKP    24 05.72 -10.1X
DMN    138.65   6 PKP    24 05.38 -10.8X
PKI    138.72   5 PKP    24 04.10 -12.2X
POO    144.46  26 ePKP   24 23.00  -3.2X
CHG    146.25 343 ePKP   24 29.10  -0.1
        0.9s    17.44nm
HYB    147.23  19 ePKPd  24 30.50  -0.3
                  e      25 07.00
BDT    147.72 342 ePKP   24 32.50   1.0
        0.8s    69.60nm
NST    148.84 340 ePKP   24 41.00   7.6X
MBL    150.02 252 ePKP   24 39.00   3.9X
        0.6s    18.00nm
GBA    150.36  24 PKP    24 35.00  -0.7
     S.D. = 1.3  on 103 of 117 obs.
-------------------------------------
%  JAN  16, 1991  08h 24m 00.48± 1.33s
   37.796 N ± 8.1km   29.314 E ±15.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      MD 3.1 (ISK).

KHL      0.55  17 iPg    24 11.10  -0.6
                  iSg    24 21.60
BCK      1.07 108 ePn    24 20.50  -0.1
ELL      1.15 155 iPn    24 22.00  -0.1
ALT      1.40  26 ePn    24 26.90   0.7
DST      1.88 344 ePn    24 33.00   0.0
     S.D. = 0.7  on   5 of   5 obs.
-------------------------------------
   JAN  16, 1991  09h 02m 09.04± 0.56s
   38.552 N ± 5.3km   21.853 E ± 6.1km
   DEPTH =   5.0km  (geophysicist)
 GREECE                          (364)
      ML 3.2 (ATH).

VLS      1.06 250 ePb    02 28.00  -1.5
NEO      1.31  54 ePb    02 33.50  -0.2
ITM      1.37 178 ePb    02 34.00  -0.8
IGT      1.54 310 iPd    02 37.96   0.8
                  iS     03 01.12
ATH      1.58 111 ePg    02 40.00   2.3
LIT      1.62  18 ePd    02 38.48   0.1
                  eS     03 01.00
KZN      1.75 358 iPbc   02 40.60   0.3
KEK      1.97 307 ePg    02 44.60   1.1
PAIG     1.97  45 ePd    02 42.08  -1.4
                  iS     03 07.90
VLI      2.02 154 ePn    02 44.50   0.3
PLG      2.20  34 ePn    02 45.80  -1.0
FNA      2.26 351 ePd    02 48.48   0.8
                  eS     03 16.72
SOH      2.55  27 ePd    02 50.92  -0.8
                  eS     03 22.80
KNT      2.73  17 ePd    02 54.16  -0.1
                  eS     03 27.12
VAY      2.82  11 ePn    02 56.40   0.8
SRS      2.89  27 ePc    02 55.80  -0.8
     S.D. = 1.1  on  16 of  16 obs.
-------------------------------------
?  JAN  16, 1991  09h 30m 13.64± 0.99s
   17.192 N ± 9.3km  120.844 E ±11.6km
   DEPTH =  33.0km  (normal)
   4.0mb (  1 obs.)
 LUZON, PHILIPPINE ISLANDS       (249)

SZP      0.52 314 eP     30 24.00  -0.5
                  eS     30 37.00
BAG      0.82 198 eP     30 29.00   0.1
                  eS     30 40.20
CVP      1.06  61 eP     30 32.00  -0.2
PIP      1.15 349 iPc    30 34.00   0.6
YKA     89.51  22 eP     43 13.80   5.1X
        0.9s    0.70nm          4.0mb
     S.D. = 0.8  on   4 of   5 obs.
-------------------------------------
%  JAN  16, 1991  12h 40m 49.58± 3.09s
   43.340 N ± 8.4km   13.126 E ±26.3km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                   (381)

ARV      0.21 320 P      40 53.50  -0.6
                  eSg    40 58.60
ASS      0.43 232 Pc     40 57.80  -0.6
                  eSg    41 06.80
CRE      0.90 289 P      41 07.90   1.0
MNS      1.01 199 P      41 09.00   0.3
                  eSg    41 24.50
SFI      1.09 303 P      41 10.10   0.0
                  eSn    41 28.20
     S.D. = 1.0  on   5 of   5 obs.
-------------------------------------
&  JAN  16, 1991  12h 43m 11.02s
   59.823 N          153.039 W
   DEPTH = 128.0km
   2.6mb (  1 obs.)
 SOUTHERN ALASKA                 (  2)
      <AEIC>.

OPT      0.20 210 iP     43 27.96   0.7
                  eS     43 40.50
INE      0.24 357 eP     43 28.08   0.5
                  eS     43 41.37
PDB      0.58 267 iP     43 29.74  -0.9
RED      0.61  12 iP     43 30.11  -0.8
RS2      0.66  12 iP     43 30.67  -0.7
RSO      0.66  12 iP     43 30.65  -0.7
REF      0.69  14 iP     43 30.82  -0.8
RDN      0.71  11 iP     43 30.96  -0.7
HOM      0.73 103 eP     43 30.95  -0.7
                  eS     43 46.19
NCT      0.74   4 iP     43 31.16  -0.8
RDT      0.82  22 iP     43 31.58  -0.9
NNL      0.90  75 iP     43 33.35   0.2
CNPM     0.96 107 eP     43 32.72  -1.0
                  eS     43 48.87
BRLK     1.09  92 eP     43 33.95  -1.0
SYI      1.26 164 eP     43 35.52  -1.1
                  eS     43 54.51
NKA      1.29  43 iP     43 38.06   1.1
CKL      1.42  14 iP     43 37.99  -0.6
                  eS     43 59.50
SPU      1.45  19 eP     43 38.09  -0.7
BGL      1.48  12 iP     43 38.94  -0.3
SLKM     1.57  63 eP     43 38.95  -1.2
CGLM     1.57  18 eP     43 39.74  -0.6
NCG      1.64  15 eP     43 40.97  -0.2
SEW      1.83  80 eP     43 41.81  -1.3
SUA      2.00  33 eP     43 44.92  -0.5
PMS      2.23  49 eP     43 47.42  -0.9
SKT      2.29  18 eP     43 48.00  -1.0
KNIM     2.71  76 eP     43 52.46  -1.9
KNK      2.77  53 eP     43 53.12  -2.0
YKA     18.54  65 eP     47 17.50  -2.5
        0.6s    0.20nm          2.6mb
     29 obs. associated
-------------------------------------
?  JAN  16, 1991  13h 01m 09.53± 6.94s
   44.368 N ±56.1km   19.703 E ±16.9km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                      (383)
      ML 3.0 (TTG).

PLE      1.06 192 iPgc   01 28.80  -0.8
                  eSg    01 43.60
IVA      1.50 175 ePg    01 36.50  -0.1
                  eSg    01 58.50
NKY      1.64 198 ePg    01 38.60   0.0
                  eSg    02 01.40
BRY      1.69 210 iPnc   01 38.00  -1.4
                  eSn    02 02.80
TTG      1.96 190 ePn    01 44.70   1.5
                  eSn    02 11.70
HCY      2.11 205 ePn    01 45.90   0.6
                  eSn    02 14.00
BDV      2.1B 197 ePn    01 47.00   0.6
                  eSn    02 16.50
SKO      2.71 151 ePn    01 53.50  -0.4
     S.D. = 1.1  on   8 of   8 obs.
-------------------------------------
?  JAN  16, 1991  13h 16m 08.06± 8.74s
   32.309 S ±65.1km   71.614 W ±30.9km
   DEPTH =  10.0km  (geophysicist)
 NEAR COAST OF CENTRAL CHILE     (135)

ROCH     0.83 143 iPd    16 24.30   0.0
                  iS     16 37.00
TACH     1.46 157 eP     16 34.50   0.1
                  iS     16 55.00
FCH      1.51 133 iPc    16 35.40   0.0
                  iS     16 56.40
PCH      1.60 145 iP     16 36.60   0.0
                  i      17 00.00
LNV      1.65 174 iPc    16 37.10  -0.1
                  iS     17 00.50
     S.D. = 0.1  on   5 of   5 obs.
-------------------------------------
%  JAN  16, 1991  13h 44m 13.27± 1.92s
   38.818 N ±17.4km   13.779 E ± 7.7km
   DEPTH =   5.0km  (geophysicist)
 SICILY                          (398)
```

16d 13h

USI	0.48	257	Pd	44 22.80	-0.2
			eSg	44 27.70	
GIB	0.85	167	P	44 29.10	-1.1
			eSg	44 46.20	
MNO	1.14	141	P	44 35.10	-0.1
			eSg	44 55.30	
MCT	1.19	186	P	44 36.90	0.8
			eSg	44 54.40	
ATN	1.48	116	P	44 40.60	0.1
MEU	1.94	152	P	44 47.80	0.5

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

& JAN 16, 1991 13h 52m 04.60s
40.715 N 127.270 W
DEPTH = 5.0km
OFF COAST OF NORTHERN CALIFORNIA(34)
<BRK>. ML 4.2 (BRK).

FHC	2.50	87	eP	52 44.00	-2.6
			eS	53 12.30	
WDC	3.60	91	eP	53 00.30	-1.9
			eS	53 39.20	
LBFM	4.12	79	eP	53 09.00	-0.8
BRK	4.81	125	eP	53 12.70	-6.7
BKS	4.83	124	eP	53 14.00	-5.7
PCC	4.98	129	eP	53 15.30	-6.4
GCC	5.52	130	eP	53 23.70	-5.7
ARN	5.59	125	eP	53 25.00	-5.5
CMB	5.97	114	eP	53 33.30	-2.5
SAO	6.02	129	eP	53 30.30	-6.2
FRI	6.97	120	e(P)	53 46.00	-3.9
BONR	7.48	109	eP	54 02.00	4.7
PNT	10.16	30	eP	54 44.00	9.9

13 obs. associated

& JAN 16, 1991 14h 03m 05.10s
36.920 N 121.690 W
DEPTH = 10.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.8 (BRK).

SAO	0.25	128	iPd	03 09.96	-0.5
GCC	0.27	294	iPc	03 10.32	-0.4
			iS	03 16.89	
MHC	0.42	5	iPd	03 13.70	-0.1
ARN	0.45	16	iPc	03 14.00	-0.2
PRS	0.64	156	iPc	03 18.08	0.1
			eS	03 31.09	
LLA	0.67	117	iPd	03 17.76	-0.7
			eS	03 27.90	
PCC	0.80	317	iPc	03 19.60	-1.0
			iS	03 31.30	
BKS	1.05	336	eP	03 24.80	-0.1
BRK	1.05	335	eP	03 25.40	0.4
ZSP	1.12	336	eP	03 24.24	-1.8
PRI	1.13	133	eP	03 26.03	-0.4
CMB	1.52	43	eP	03 32.50	0.1
			eS	03 49.60	
FRI	1.59	87	iPd	03 33.20	-0.1

13 obs. associated

& JAN 16, 1991 14h 15m 55.00s
32.380 N 115.260 W
DEPTH = 6.0km (geophysicist)
CALIFORNIA-MEXICO BORDER REGION (45)
<PAS-P>. ML 3.2 (PAS).

GLA	0.76	28	eP	16 08.70	-1.6
IKP	0.76	291	iPc	16 09.50	-0.8
PLM	1.66	306	eP	16 22.30	-2.7
PEC	2.19	314	eP	16 31.00	-1.6
TNP	5.91	345	eP	17 49.00	23.6

5 obs. associated

JAN 16, 1991 14h 42m 50.36± 0.91s
41.154 N ±11.2km 23.253 E ± 5.6km
DEPTH = 10.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)
MD 2.4 (THE).

SRS	0.26	98	iPc	42 55.92	0.1
			eS	43 00.36	
KNT	0.27	272	ePd	42 56.36	0.3
			eS	43 01.00	
VAY	0.54	288	ePg	43 01.00	-0.3
THE	0.57	203	ePc	43 01.64	-0.2
GRG	0.67	253	ePd	43 04.16	0.4
FNA	1.47	256	eP	43 16.60	-0.3

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

% JAN 16, 1991 14h 43m 24.22± 3.15s
41.335 N ±24.1km 23.270 E ± 8.5km
DEPTH = 10.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)
MD 2.1 (THE).

SRS	0.33	132	ePc	43 31.04	0.0
			eS	43 35.68	
KNT	0.33	238	ePd	43 31.56	0.5
			eS	43 36.16	
SOH	0.52	173	eP	43 34.80	0.1
THE	0.74	198	ePc	43 38.44	-0.3
			eS	43 49.12	
GRG	0.76	240	ePd	43 38.64	-0.4
			eS	43 49.92	

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

JAN 16, 1991 14h 45m 28.51± 0.29s
41.322 N ± 2.7km 23.250 E ± 2.9km
DEPTH = 5.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)
MD 3.3 (ATH), 3.2 (THE). ML 2.9 (SKO). Felt (III) at Petrich, Bulgorio.

KNT	0.31	239	ePc	45 35.52	0.7
			eS	45 40.28	
SRS	0.33	128	ePc	45 35.08	-0.1
			eS	45 39.72	
MMB	0.45	53	iPgd	45 37.00	-0.5
			iSg	45 43.00	
SOH	0.51	171	eP	45 38.90	0.2
			eS	45 45.20	
VAY	0.51	270	iPg	45 38.60	-0.2
			iSg	45 45.70	
KKB	0.56	347	iPc	45 38.00	-1.7
THE	0.72	197	ePd	45 43.12	0.2
			eS	45 53.36	
GRG	0.74	241	ePc	45 43.60	0.3
			iS	45 54.52	
PLG	0.96	171	ePn	45 46.20	-1.0
			eSn	46 02.30	
OUR	1.13	150	ePc	45 50.76	0.6
RZN	1.16	71	P	45 51.00	0.2
			S	46 06.00	
VTS	1.27	359	iPgd	45 53.00	0.4
			iSg	46 10.00	
PLD	1.34	54	eP	45 55.00	1.3
			eS	46 14.00	
			iS	06 20.00	
LIT	1.35	206	ePc	45 53.96	0.1
			eS	46 13.60	
PGB	1.40	29	eP	45 54.00	-0.8
			S	46 12.00	
PAIG	1.43	167	ePd	45 55.48	0.3
KZN	1.51	228	ePb	45 56.10	-0.3
FNA	1.52	250	ePd	45 56.32	-0.1
KDZ	1.66	78	iPd	45 58.00	-0.4
			iS	46 20.00	
RDO	1.73	95	ePn	45 59.00	-0.4
DIM	1.86	66	iP	46 05.00	3.7X
			iS	46 29.00	
OHR	1.86	264	ePn	46 01.50	0.1
NEO	2.01	181	ePn	46 02.50	-1.0
PVL	2.44	39	eP	46 11.00	1.3
BZS	4.45	345	ePc	46 39.00	0.8
MLR	4.61	24	eP	46 46.00	5.5X
			e	00 20.00	

S.D. = 0.8 on 24 of 26 obs.

JAN 16, 1991 14h 49m 22.96± 0.83s
38.297 N ± 5.6km 141.771 E ± 6.4km
DEPTH = 62.1 ± 6.4 km
4.9mb (27 obs.)
NEAR EAST COAST OF HONSHU, JAPAN(228)

OFUJ	0.79	354	P	49 37.60	-0.9
			eS	49 48.00	
YAMJ	1.37	265	iPd	49 46.50	0.2
NIIJ	2.44	245	P	50 01.60	0.6
KAKJ	2.45	212	P	50 00.10	-1.1
			S	50 27.50	
AOMJ	2.51	335	iP+	50 03.00	1.0
CHJJ	3.16	225	P	50 11.20	-0.1
MAT	3.33	239	iPd	50 14.70	0.9
			eS	50 53.00	
MTMJ	3.59	243	P	50 18.60	1.1
MDJ	11.10	309	Pc	52 00.00	-1.3
Z	24s		1.00um		
CN2	13.48	299	eP	52 35.00	2.1
Z	15s		1.50um		
			eS	55 07.00	
SNY	14.37	290	Pc	52 48.10	3.7X
	0.7s		30.00nm		4.8mb
Z	16s		1.30um		4.6MszX
E	14s		1.20um		
			S	55 24.00	
SSE	18.37	253	Pd	53 36.00	1.2
	1.2s		44.00nm		4.5mb
Z	20s		0.50um		4.1MszX
			pP	53 43.50	
TIA	19.72	272	eP	53 49.10	-1.0
NJ2	19.72	259	eP	53 49.00	-1.0
Z	16s		0.40um		5.5Msz
BJI	19.91	283	eP	53 49.00	-2.9
TIY	23.09	278	eP	54 23.60	-0.3
Z	16s		0.60um		4.1MszX
HHC	23.37	286	P	54 26.00	-0.7
WHN	23.85	259	ePd	54 34.00	2.8X
XAN	26.78	271	eP	54 57.50	-1.3
LZH	30.16	278	P	55 28.50	-0.9
	0.5s		30.00nm		5.3mb
Z	16s		0.48um		4.2MszX
			pP	55 32.50	14kmX
			sP	55 39.00	
			PP	56 33.50	
GYA	31.73	259	P	55 43.00	-0.2
CD2	31.98	268	eP	55 44.00	-1.2
GTA	32.48	285	iPc	55 49.50	-0.2
	0.6s		10.00nm		4.8mb
Z	20s		0.70um		4.4Msz
E	14s		0.50um		
KMI	35.45	260	eP	56 16.00	0.6
Z	16s		0.50um		4.4MszX
			sP	56 30.00	
WMQ	40.54	296	Pc	56 58.50	0.9
	1.0s		70.00nm		5.4mb
CHG	41.89	255	eP	57 09.00	0.2
LSA	42.39	274	eP	57 15.70	2.3
GUN	47.32	275	P	57 53.18	0.4
KKN	47.85	275	P	57 57.00	0.3
	0.7s		85.00nm		5.8mb
PKI	47.85	275	P	57 56.84	0.0
	0.6s		26.00nm		5.3mb
FBA	47.89	33	P	57 56.00	-0.2
			e	58 14.50	
DMN	48.07	275	P	57 58.60	0.1
	0.7s		25.00nm		5.3mb
GKN	48.26	275	P	57 59.82	0.1
	0.7s		59.00nm		5.7mb
INK	53.14	28	eP	58 35.00	-1.0
MBC	55.24	17	eP	58 51.50	0.2
WRA	58.35	188	P	59 12.00	-1.9
	0.6s		5.60nm		4.9mb
HYB	58.53	268	eP	59 15.00	-0.5
GBA	61.60	265	P	59 36.00	-0.4
ASPA	62.08	188	eP	59 38.30	-1.1
	1.2s		5.00nm		4.5mb
KEV	62.36	339	eP	59 39.00	-1.8
YKA	62.58	31	eP	59 41.00	-1.3
	0.8s		1.50nm		4.1mb
SOD	63.91	337	iP	59 50.90	-0.2
DAG	64.55	355	iP	59 54.20	-0.9
	0.8s		8.96nm		4.8mb
WARB	65.69	195	eP	00 03.40	0.5
KAF	67.32	333	iP	00 12.30	-0.6
	0.5s		4.90nm		4.7mb
NUR	68.97	332	iP	00 22.60	-0.6
	0.8s		19.10nm		5.1mb
FFC	72.49	33	eP	00 44.00	-0.5
	0.7s		8.00nm		4.8mb
LRM	73.05	45	eP	00 48.70	0.4
			e	01 03.30	
HFS	73.06	336	eP	00 47.20	-0.5
	0.6s		14.10nm		5.1mb
Z	17s		0.33um		4.7MszX
			LR	32 52.00	
NB2	73.13	337	P	00 48.20	0.0
	0.7s		14.10nm		5.0mb
TNP	74.90	53	P	00 59.70	0.6
FRB	75.48	13	eP	01 01.00	-0.6

```
KSP     79.18 328 iP     01 23.50   1.2
CLL     80.14 330 iPd    01 28.30   0.8
        0.9s     15.00nm          4.9mb
KHC     81.62 329 eP     01 36.50   1.2
GRF     82.12 330 eP     01 39.40   1.5
CDF     84.67 331 eP     01 51.30   0.2
        0.7s      5.50nm          4.7mb
HAU     85.36 332 eP     01 54.20  -0.2
        0.7s      7.70nm          4.9mb
LOR     86.89 333 eP     02 01.80  -0.2
        1.0s     11.00nm          5.0mb
      Z 20s      0.15um           4.4Msz
LBF     87.09 333 eP     02 02.80  -0.2
        1.0s      9.00nm          4.9mb
SSF     87.19 333 eP     02 03.60   0.2
LPL     87.28 330 eP     02 04.40   0.3
        0.8s      7.40nm          4.9mb
LPG     87.29 330 eP     02 04.60   0.3
        0.8s      7.40nm          4.9mb
AVF     87.48 333 eP     02 05.20   0.4
        0.8s     21.50nm          5.4mb
CAF     89.54 333 eP     02 15.30   0.6
        0.9s      7.35nm          5.0mb
LFF     90.00 333 eP     02 17.30   0.5
ZOBO   145.79  58 PKP    08 57.00  -0.1
                  i      09 13.00
LPB    146.00  59 PKP    09 00.00   2.7
CNCB   146.27  59 PKP    09 00.20   2.3
                  i      09 14.20
SIV    150.04  48 PKP    09 09.10   6.0X
SOB1   150.94   5 ePKP   09 13.00   8.4X
     S.D. = 1.1  on  67 of  71 obs.
-------------------------------------------
   JAN  16, 1991  15h 05m 34.96± 1.09s
   41.430 N ± 9.7km   23.277 E ± 5.9km
   DEPTH =   5.0km  (geophysicist)
 GREECE-BULGARIA BORDER REGION    (363)

MMB     0.37  65 iPgd   05 42.00  -0.5
                  eSg    05 47.00
KKB     0.46 342 eP     05 44.00  -0.2
                  S      05 52.00
VAY     0.54 259 ePg    05 45.70  -0.1
RZN     1.11  76 eP     05 57.00   0.6
                  S      06 13.00
VTS     1.16 357 ePgd   05 58.00   0.8
                  iSg    06 15.00
PGB     1.30  30 eP     05 59.00  -0.5
                  eS     06 18.00
     S.D. = 0.7  on   6 of   6 obs.
-------------------------------------------
%  JAN  16, 1991  15h 41m 55.08± 2.59s
   41.319 N ±19.2km   23.264 E ± 6.3km
   DEPTH =   5.0km  (geophysicist)
 GREECE-BULGARIA BORDER REGION    (363)
     MD 2.5 (THE).

KNT     0.32 241 iPc    42 01.82   0.3
                  eS     42 06.54
SRS     0.32 129 iPc    42 01.42  -0.1
                  eS     42 06.06
SOH     0.50 172 iPc    42 05.22   0.1
                  eS     42 12.42
THE     0.72 198 ePc    42 09.38  -0.1
                  eS     42 19.54
GRG     0.75 241 ePd    42 09.66  -0.3
                  eS     42 20.26
OUR     1.12 151 ePc    42 16.70   0.1
                  eS     42 32.38
     S.D. = 0.3  on   6 of   6 obs.
-------------------------------------------
   JAN  16, 1991  17h 08m 30.53± 0.62s
   37.102 N ± 5.7km   29.482 E ± 6.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
     MD 4.0 (ISK).

ELL     0.49 136 iPg    08 39.50  -1.0
BCK     0.95  68 iPn    08 49.50   0.8
YER     0.96 272 iPn    08 47.80  -1.0
KSL     0.98 175 eP     08 49.00  -0.2
                  eS     09 05.00
KHL     1.22   2 iPn    08 52.90  -0.4
ARG     1.40 231 eP     08 58.10   2.0
                  eS     09 17.70
ALT     2.01  14 ePn    09 05.40   0.4
SMG     2.19 287 eP     09 07.10  -0.4
DST     2.59 345 ePn    09 13.00  -0.2
     S.D. = 1.1  on   9 of   9 obs.
-------------------------------------------
?  JAN  16, 1991  17h 12m 48.53± 0.81s
   7.972 S ± 7.7km   30.372 E ±14.5km
   DEPTH =  10.0km  (geophysicist)
   4.1mb (  2 obs.)
 LAKE TANGANYIKA REGION           (572)
     mbLg 3.8 (BUL).

KRI     8.83 185 ePn    15 00.00   0.6
                  iSn    16 36.00
                  iLg    17 29.00
NAI     9.24  44 eP     15 05.00   0.0
BUL    12.22 188 iPn    15 45.10  -0.7
                  iSn    17 53.30
                  iLg    19 09.00
BCAO   17.07 316 ePc    16 49.00   0.0
       0.5s      4.00nm          3.8mb
                  iS     19 51.80
                  Lg     22 10.50
SLR    17.78 186 eP     16 58.00   0.1
       1.2s     39.06nm          4.4mb
                  S      19 05.50
     S.D. = 0.6  on   5 of   5 obs.
-------------------------------------------
&  JAN  16, 1991  17h 45m 07.39s
   59.714 N          146.839 W
   DEPTH =  37.4km
 GULF OF ALASKA                   ( 15)
     <AEIC>. ML 3.7 (PMR).

MID     0.38 138 eP     45 16.10  -0.3
                  i      45 18.40
MTU     0.49 304 iP     45 17.22  -0.7
                  eS     45 25.39
LTI     0.61 303 eP     45 18.75  -0.8
HIN     0.71  14 iP     45 19.82  -1.1
                  eS     45 30.29
KNIM    0.78 325 iP     45 21.20  -0.8
                  eS     45 32.18
CVA     1.00  33 iP     45 23.99  -1.0
                  eS     45 37.26
SGAM    1.14  45 iP     45 26.28  -0.8
                  eS     45 41.89
GLI     1.18 354 iP     45 26.61  -1.0
                  eS     45 42.56
KAIM    1.24  79 eP     45 27.92  -0.6
                  eS     45 43.51
RAGM    1.28  57 eP     45 28.25  -0.9
VZW     1.36   6 eP     45 29.38  -0.9
SEW     1.37 288 eP     45 29.44  -0.9
HMT     1.44  63 eP     45 30.71  -0.6
VLZ     1.44  10 eP     45 30.53  -0.8
                  eS     45 49.43
KLU     1.84  14 iP     45 36.36  -0.9
SLKM    1.87 297 eP     45 36.56  -1.1
KNK     1.88 336 eP     45 37.14  -0.6
PMS     2.04 320 eP     45 39.40  -0.7
BRLK    2.05 273 eP     45 39.06  -1.1
WAX     2.13  68 iP     45 39.92  -1.4
                  eS     46 05.64
PLRM    2.20 330 eP     45 41.03  -1.1
PMR     2.20 330 eP     45 44.70   2.5
CNPM    2.24 267 eP     45 44.88   2.0
TGL     2.26  61 eP     45 41.97  -1.2
NNL     2.27 280 eP     45 44.29   1.0
GLB     2.29  39 eP     45 42.51  -1.1
GHO     2.31 335 eP     45 43.77  -0.1
TOA     2.42   7 iPd    45 45.50   0.0
NKA     2.43 297 eP     45 46.26   0.8
HOM     2.44 271 eP     45 44.47  -1.2
TZL     2.44  16 iP     45 45.84   0.2
BALM    2.60  57 eP     45 46.64  -1.4
SUA     2.61 314 eP     45 47.47  -0.7
YAH     2.64  74 eP     45 47.45  -1.3
SDG     2.89  12 eP     45 51.76  -0.4
RDT     2.92 290 eP     45 50.99  -1.5
SPU     2.97 302 eP     45 52.19  -1.2
CTGM    3.01  63 eP     45 52.41  -1.6
CGLM    3.01 304 eP     45 52.75  -1.2
REF     3.04 287 eP     45 52.89  -1.5
RED     3.06 286 eP     45 52.99  -1.6
RSO     3.06 287 eP     45 53.50  -1.2
RS2     3.06 287 eP     45 53.56  -1.1
RDN     3.07 288 eP     45 53.08  -1.7
CKL     3.10 301 eP     45 53.93  -1.3
NCG     3.13 305 eP     45 54.62  -0.9
BGL     3.16 302 eP     45 55.08  -0.9
INE     3.16 279 eP     45 55.83  -0.2
CUT     3.17 330 eP     45 55.50  -0.6
SKT     3.23 317 eP     45 55.56  -1.4
OPT     3.24 272 eP     45 58.46   1.4
PAX     3.33  11 eP     45 57.57  -0.9
PDB     3.72 274 eP     46 02.92  -1.0
FBA     5.22 356 eP     46 22.70  -2.4
IMA     7.10 337 e(P)   46 55.50   3.9
     55 obs. associated
-------------------------------------------
   JAN  16, 1991  18h 03m 13.41± 0.58s
   44.851 N ± 3.9km  111.484 W ± 6.3km
   DEPTH =   5.0km  (geophysicist)
 HEBGEN LAKE REGION               (458)
     ML 3.5 (BUT).

LTMT    0.55 234 iPc    03 24.60   0.1
MCMT    0.97 269 ePn    03 32.60   0.1
IMW     1.03 158 eP     03 41.30   7.7X
LRM     1.19 325 ePn    03 36.20   0.0
HBMT    1.23 320 ePn    03 37.20   0.2
SXM     1.31   8 ePn    03 37.90  -0.4
BUT     1.39 327 ePg    03 40.00   0.4
                  eSn    03 58.50
                  eSg    04 00.20
HPI     1.63 226 eP     03 42.50  -0.6
HRY     1.88 353 iPnd   03 46.40  -0.2
PTI     2.08 198 eP     03 49.50  -0.1
BW06    2.50 145 eP     03 56.00   0.4
     S.D. = 0.4  on  10 of  11 obs.
-------------------------------------------
   JAN  16, 1991  18h 25m 51.15± 0.79s
   37.106 N ± 7.1km   29.527 E ± 7.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
     MD 3.3 (ISK).

ELL     0.47 139 iPg    26 00.00  -0.7
                  eSg    26 08.00
BCK     0.92  67 iPn    26 09.00   0.2
KSL     0.99 177 ePb    26 10.00   0.2
YER     0.99 272 iPn    26 08.80  -1.3
KHL     1.22 360 ePn    26 14.00   0.2
ARG     1.43 232 ePb    26 18.60   1.4
                  eSb    26 39.60
ALT     2.00  13 ePn    26 29.00   3.6X
     S.D. = 1.2  on   6 of   7 obs.
-------------------------------------------
   JAN  16, 1991  18h 35m 09.73± 0.5Bs
   37.067 N ± 5.6km   29.469 E ± 5.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
     MD 3.5 (ISK).

ELL     0.48 132 iPg    35 19.50   0.1
                  eSg    35 27.00
KSL     0.95 174 eP     35 28.00   0.2
                  eS     35 44.80
YER     0.95 274 iPn    35 28.30   0.4
BCK     0.98  66 iPn    35 28.00  -0.3
CIN     1.22 296 eP     35 32.00  -0.5
KHL     1.25   2 iPn    35 33.50   0.4
ARG     1.37 232 eP     35 34.60  -0.3
                  eS     35 57.80
ALT     2.05  14 ePn    35 49.00   4.3X
     S.D. = 0.4  on   7 of   8 obs.
-------------------------------------------
%  JAN  16, 1991  19h 10m 39.79± 0.61s
   39.399 N ± 5.6km   28.072 E ± 5.8km
   DEPTH =   5.0km  (geophysicist)
 TURKEY                           (366)
     MD 2.9 (ISK).

DST     0.48  64 iPg    10 49.10  -0.3
                  iSg    10 56.30
EDC     0.96 350 ePg    10 59.00   0.5
BNT     0.96 353 ePg    10 58.20  -0.4
IZM     1.18 213 ePn    11 02.00  -0.4
EZN     1.42 288 ePn    11 06.30   0.1
KHL     1.56 133 ePn    11 08.90   0.6
ALT     1.62 102 ePn    11 09.00  -0.2
     S.D. = 0.5  on   7 of   7 obs.
-------------------------------------------
   JAN  16, 1991  19h 14m 53.48± 0.30s
   25.229 S ± 3.6km  178.269 E ± 4.1km
```

16d 19h

DEPTH = 570.5 ± 4.9 km
5.4mb (27 obs.)
SOUTH OF FIJI ISLANDS (171)

SVA	7.08	1	ePc	16	44.00	0.3
VUN	7.19	1	eP	16	44.10	-0.6
OVA	7.52	4	ePc	16	48.10	0.2
KRO	7.95	8	ePc	16	52.20	0.2
MBU	8.23	3	iPd	16	55.00	0.2
NDE	8.66	7	eP	16	59.50	0.4
DZM	11.28	284	iPd	17	29.10	3.8X
			iS	19	36.10	
			ScP	25	07.00	
HBZ	12.33	180	P	17	34.80	-0.7
	0.3s	61.00nm				5.4mb
WLZ	12.78	190	eP	17	43.50	3.5X
PUZ	12.81	180	eP	17	39.40	-0.9
NOZ	13.35	181	P	17	46.30	0.6
WHH	13.70	186	P	17	49.50	0.2
NGZ	14.09	189	eP	17	54.80	1.6
CNZ	14.12	189	eP	17	55.20	1.8
PGZ	15.44	186	eP	18	05.40	-0.8
	0.2s	135.00nm				6.1mb
MNG	15.52	188	eP	18	06.30	-0.8
KIW	15.84	189	eP	18	10.10	0.0
CAW	16.06	189	P	18	12.60	0.3
WDW	16.23	189	eP	18	13.80	0.0
MRW	16.23	190	eP	18	14.20	0.3
			eS	20	55.60	
BLW	16.26	188	eP	18	14.00	-0.2
TCW	16.28	191	eP	18	14.70	0.3
MOW	16.34	188	eP	18	15.30	0.3
THZ	17.08	194	P	18	23.30	1.1
			S	21	09.50	
KHZ	17.58	192	eP	18	26.80	-0.1
	0.3s	370.00nm				6.4mb X
LTZ	18.19	194	P	18	32.40	-0.4
MQZ	19.00	193	P	18	39.50	-0.8
MMCZ	21.07	198	P	18	58.60	-0.9
MHZ	21.08	198	P	18	58.80	-0.8
BRS	22.94	259	iPd	19	18.50	2.0
RMQ	26.57	261	iP	19	50.00	1.4
	0.7s	71.00nm				5.4mb
CNB	26.83	241	iPd	19	52.90	2.0
	1.0s	150.00nm				5.6mb
CMS	29.15	250	iPc	20	12.00	1.0
	0.6s	69.00nm				5.5mb
TBI	29.44	93	iP	20	14.00	0.5
	0.7s	110.00nm				5.6mb
TOO	30.41	238	iPc	20	23.50	1.8
	0.5s	137.00nm				5.8mb
AFR	30.67	82	iP	20	23.50	-0.5
	0.8s	100.00nm				5.5mb
PAE	30.80	82	iP	20	24.60	-0.5
	0.8s	45.00nm				5.2mb
PPT	30.84	82	iP	20	25.00	-0.4
	0.8s	95.00nm				5.5mb
PPN	30.98	82	iP	20	26.20	-0.4
	0.8s	50.00nm				5.2mb
TVO	31.06	83	iP	20	26.80	-0.6
	0.8s	115.00nm				5.6mb
BFD	32.61	240	iPc	20	45.00	4.8X
PMO	33.27	79	iP	20	45.70	-0.2
	0.8s	60.00nm				5.3mb
VAH	33.42	79	iP	20	46.70	-0.4
	0.8s	45.00nm				5.2mb
TPT	33.53	79	iP	20	47.90	-0.1
	0.8s	95.00nm				5.5mb
RUV	33.66	79	iP	20	48.80	-0.3
	0.8s	75.00nm				5.4mb
ADE	35.38	245	iPc	21	04.20	0.8
	0.6s	90.67nm				5.6mb
QIS	35.84	269	iPc	21	07.40	0.2
	0.3s	9.00nm				4.9mb
			e	26	04.00	
ASPA	40.28	263	eP	21	42.80	-0.7
	0.7s	128.80nm				5.6mb
			eScP	26	24.50	
			iS	27	08.40	
			iScS	30	40.40	
WRA	40.77	268	P	21	46.00	-1.3
	0.4s	145.10nm				5.9mb
RKT	42.55	97	iP	22	01.40	0.1
	0.8s	30.00nm				4.9mb
FORR	44.34	251	eP	22	15.00	-0.2
WARB	46.27	257	iPc	22	29.90	-0.2
COOL	50.27	250	iPc	22	58.60	-1.4
	0.3s	6.00nm				4.7mb
SBA	52.97	183	P	23	20.80	1.9
KLB	53.02	248	iPc	23	18.80	-1.1
	0.3s	18.00nm				4.9mb
NWAO	53.26	247	eP	23	20.20	-1.3
MEKA	53.31	255	eP	23	20.50	-1.5
	0.3s	6.00nm				4.4mb
MBL	53.51	262	iPc	23	22.20	-1.3
	0.3s	22.00nm				5.0mb
BAL	54.08	249	eP	23	26.00	-1.4
MUN	54.26	248	iPc	23	27.70	-0.9
MRWA	54.96	251	iPc	23	33.40	-0.1
	0.4s	10.00nm				4.5mb
MAW	75.96	201	iPc	25	43.00	-0.1
PRS	83.59	45	eP	26	23.90	0.7
GCC	83.62	44	eP	26	24.20	0.9
PCC	83.67	44	eP	26	24.10	0.6
BCH	83.73	46	eP	26	24.50	0.4
SAO	83.81	45	eP	26	24.50	0.2
PRI	83.93	45	eP	26	26.00	1.0
BRK	83.98	43	eP	26	25.70	0.7
BKS	83.99	43	eP	26	25.90	0.7
	0.8s	47.00nm				5.2mb
MHC	84.03	44	eP	26	26.50	0.9
ARN	84.11	44	eP	26	26.00	0.2
PLM	84.84	50	eP	26	29.80	0.2
FRI	85.05	45	ePd	26	30.20	-0.1
CMB	85.25	44	eP	26	31.30	0.0
ORV	85.48	42	eP	26	32.60	0.3
WDC	85.49	41	ePd	26	32.70	0.4
YKA	102.24	26	ePdiff	27	46.70	-1.6
	0.8s	0.20nm				3.8mb X
FRB	122.56	29	ePKP	32	43.00	-2.1
PDCR	127.68	131	(PKP)	32	55.00	-1.5
SOB1	128.75	127	ePKP	32	59.00	0.4
			e	33	08.00	
UPP	142.86	344	iPKP	33	18.60	-4.6X
NB2	143.12	350	PKP	33	19.70	-4.1X
	0.7s	14.80nm				
HFS	143.51	347	ePKP	33	20.50	-3.9X
	0.4s	36.60nm				
KSP	150.91	336	iPKPd	33	42.60	6.2X
BCAO	151.60	227	iPKPc	33	45.50	6.9X
	0.2s	30.00nm				
			id	33	57.00	
			ic	34	03.90	
CLL	151.62	340	iPKP	33	43.70	6.3X
	0.8s	9.00nm				
			i	33	52.80	
BRG	151.70	339	iPKP	33	43.70	6.1X
	S.D. = 0.9		on	78	of 88	obs.

% JAN 16, 1991 19h 37m 05.59± 0.68s
43.818 N ± 7.6km 12.003 E ± 4.8km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

SFI	0.15	313	Pc	37	09.50	0.4
			eSg	37	12.10	
CRE	0.19	191	Pc	37	10.00	0.1
			eSg	37	13.20	
RSM	0.34	71	Pd	37	12.30	-0.4
			eSg	37	14.60	
FIR	0.54	266	e(Pg)	37	16.00	-0.6
ARV	0.75	115	P	37	20.60	0.3
			eSg	37	32.20	
PII	1.08	265	Pd	37	26.00	0.2
			eSg	37	40.50	
	S.D. = 0.5		on	6	of 6	obs.

% JAN 16, 1991 20h 18m 11.06± 1.41s
37.948 N ±10.4km 16.009 E ±12.3km
DEPTH = 10.0km (geophysicist)
IONIAN SEA (399)

SOI	0.13	16	Pd	18	13.50	-0.7
			eSg	18	16.00	
MSI	0.44	306	Pc	18	19.90	-0.1
			eSg	18	26.60	
MEU	1.20	226	P	18	33.50	-0.1
GIB	1.57	272	P	18	39.20	0.1
			eSn	18	59.00	
TDS	1.73	8	P	18	42.00	0.7
	S.D. = 0.7		on	5	of 5	obs.

JAN 16, 1991 22h 58m 55.76± 0.40s
23.181 S ± 5.6km 69.710 W ± 7.6km
DEPTH = 79.5km (2 depth phases)
5.0mb (6 obs.)
NORTHERN CHILE (123)
Felt (IV) at Antofagasta, Calama and Mejillones and (III) at Maria Elena.

ANT	0.83	231	iPc+	59	14.50	1.5
			i(S)	59	25.00	
CYA	6.32	147	iPc	00	31.00	2.7
CCH	6.67	31	P	00	34.00	0.6
			i	00	47.90	
LPB	6.79	13	P	00	34.30	-0.8
	1.0s	880.00nm				6.3mb X
			S	01	46.00	
ARE	6.89	346	eP	00	31.00	-5.4X
			iS	01	44.50	
ZOBO	7.04	13	iPd	00	37.80	-0.9
MDZ	9.70	176	e(P)	01	37.40	22.8X
ROCH	9.82	186	iP	01	23.20	6.7X
IHA	9.95	189	e(P)	01	33.00	14.9X
			e(S)	03	41.00	
PEL	9.96	185	eP	01	16.50	-1.8
FCH	10.12	183	iPc	01	18.00	-2.7X
PCH	10.43	184	eP	01	21.50	-3.1X
TACH	10.49	186	eP	01	23.20	-2.1
SIV	10.83	50	P	01	26.50	-3.5X
LNV	10.84	188	eP	01	25.50	-4.5X
PT10	13.03	327	e(P)	01	54.00	-5.1X
			eS	04	15.00	
NNA	13.04	327	iP	01	57.80	-1.5
	0.6s	14.00nm				4.8mb
			eS	04	13.50	
PPD	17.03	90	eP	02	50.00	-0.3
			e	02	52.40	
BAO	21.80	74	ePd	03	42.00	-0.9
VC1	23.95	338	eP	04	09.60	5.3X
CAYA	24.48	340	eP	04	11.50	2.0
COTA	24.84	339	eP	04	16.50	3.7X
PURC	26.16	345	eP	04	27.12	2.0
SILC	26.51	345	eP	04	29.26	1.1
SALC	26.87	344	eP	04	31.13	-0.1
DIAC	27.06	346	eP	04	33.95	1.0
HOQC	27.33	345	eP	04	34.28	-1.3
ANCC	27.44	344	eP	04	36.31	0.1
CLMC	27.72	345	eP	04	39.20	0.3
HOBC	28.08	346	eP	04	41.38	-0.7
SOB1	30.88	68	eP	05	07.80	0.8
			i	05	12.20	15kmX
PDCR	30.91	75	eP	05	05.60	-1.6
			e	05	09.90	15kmX
			e	05	22.60	
			e	08	28.00	
TUL	63.74	337	e(P)	09	19.80	-1.5
ANMO	67.51	328	P	09	46.00	0.3
LIC	69.57	74	P	09	58.18	-0.4
	0.8s	14.00nm				4.9mb
Z	20s	0.13um				4.2Msz
TIC	69.77	73	P	09	59.54	-0.3
	0.9s	25.50nm				5.1mb
KIC	69.88	74	Pc	10	00.34	-0.2
	0.8s	34.00nm				5.3mb
KUK	73.69	76	eP	10	23.00	-0.1
TNP	75.51	323	P	10	32.40	-1.1
			e	10	54.00	81km
SCH	77.72	2	eP	10	45.00	0.0
AVE	81.70	49	eP	11	08.00	1.1
SES	81.86	335	eP	11	07.00	-0.4
			pP	11	28.00	78km
MAL	85.65	47	iPc	11	30.20	3.4X
FRB	86.64	1	eP	11	31.00	0.0
BCAO	90.11	85	iPc	11	53.20	4.4X
	0.6s	6.00nm				5.0mb
YKA	92.52	341	eP	11	58.30	-0.4
	0.8s	1.90nm				4.6mb
ASPA	128.09	208	ePKP	17	55.50	0.6
	1.4s	5.60nm				
KOD	146.12	107	ePKP	18	32.30	3.8X
GBA	147.47	101	PKPc	18	32.00	1.9
	0.6s	3.60nm				
HYB	149.73	95	ePKP	18	40.50	6.8X
			e	19	02.50	
	S.D. = 1.2		on	35	of 50	obs.

? JAN 16, 1991 23h 26m 54.96± 1.38s
34.992 S ±29.8km 104.400 W ±16.8km
DEPTH = 10.0km (geophysicist)

5.0mb (2 obs.)
WEST CHILE RISE (686)

ARE	34.70	66	eP	33	47.00	-0.4
LPB	37.24	70	P	34	09.80	0.7
	Z 24s		6.20um			5.3MszX
			LR	44	38.00	
ZOBO	37.38	69	P	34	10.80	0.4
			S	39	44.00	
			LR	44	12.00	
CCH	38.27	73	P	34	18.50	0.9
SIV	43.05	75	P	34	57.50	0.8
PPD	47.90	89	eP	35	33.50	-1.9
SDV	54.07	43	eP	36	21.80	-0.4
TOV	55.27	43	eP	36	29.30	-1.7
PDCR	62.72	86	eP	37	21.20	-1.5
SOB1	63.10	82	eP	37	26.10	0.9
ANMO	69.60	358	P	38	09.50	3.2X
MEO	69.63	5	iPc	38	08.50	2.2
PRI	72.37	346	eP	38	22.00	-1.0
LLA	72.89	346	eP	38	28.50	2.6X
FRI	73.02	347	eP	38	24.50	-2.1
GCC	73.50	345	eP	38	31.40	2.0X
TNP	73.67	349	e(P)	38	29.00	-1.7
	1.0s		11.25nm			4.9mb
FVM	73.76	11	e(P)	38	33.00	2.1
CMB	74.16	347	eP	38	32.10	-1.2
WDC	77.03	346	eP	38	43.50	-6.0X
BW06	77.54	356	P	38	51.70	-0.8
RSSD	78.74	0	eP	39	00.50	1.4
NEW	83.66	351	eP	39	27.00	2.3
	1.0s		13.00nm			5.1mb
SES	85.22	356	eP	39	35.00	2.6X
			pP	39	58.00	85kmX
BJI	147.63	291	ePKP	46	38.00	-0.2
MAIO	166.83	80	ePKP	47	08.00	6.3X
PKI	168.82	231	PKP	47	00.00	-3.6X
OUE	171.27	121	ePKP	47	05.90	1.2

S.D. = 1.5 on 21 of 28 obs.

? JAN 17, 1991 00h 38m 41.97± 1.85s
41.060 N ±16.9km 22.504 E ±13.0km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MD 1.5 (THE).

GRG	0.13	217	ePd	38	45.12	0.0
			eS	38	47.48	
KNT	0.32	71	ePc	38	48.88	0.4
			eS	38	53.76	
THE	0.55	141	ePd	38	53.24	0.1
			eS	39	00.92	
SRS	0.82	86	ePc	38	57.48	-0.5
			eS	39	09.28	

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

? JAN 17, 1991 01h 17m 31.00± 1.51s
4.200 N ±20.3km 76.580 W ±26.6km
DEPTH = 110.0km (geophysicist)
COLOMBIA (103)
MD 3.3 (UVC).

CLMC	0.32	177	iPc	17	45.66	-1.6
BUGC	0.44	133	eP	17	46.85	-1.0
			eS	18	00.50	
HOBC	0.47	71	iPd	17	46.51	-1.5
			eS	17	59.90	
HOOC	0.73	184	iPc	17	48.53	-1.6
			eS	18	03.40	
ANCC	0.74	203	iPc	17	48.18	-1.8
			eS	18	02.80	
DIAC	0.98	157	ePc	17	50.32	-2.1
			eS	18	06.60	
SALC	1.22	185	eP	17	54.20	-0.9
			eS	18	13.40	

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

% JAN 17, 1991 01h 25m 59.56± 1.09s
4.817 N ± 9.0km 76.226 W ±12.6km
DEPTH = 30.0 ± 9.0 km
COLOMBIA (103)
MD 2.7 (UVC).

BUGC	0.13	194	iPc	26	05.40	0.1
			eS	26	08.70	
HOBC	0.35	15	iPc	26	07.70	-0.1
			eS	26	12.80	
CLMC	0.36	248	eP	26	08.23	0.2
			eS	26	13.60	
HOOC	0.68	217	iPc	26	12.40	-0.7
DIAC	0.72	178	ePc	26	13.53	-0.2
			eS	26	22.90	
ANCC	0.81	232	eP	26	14.86	0.0
SALC	1.14	204	eP	26	20.32	0.7

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

? JAN 17, 1991 03h 56m 27.30± 1.26s
31.094 S ±20.1km 177.860 W ±24.0km
DEPTH = 33.0km (normol)
4.3mb (2 obs.) 4.0Msz (2 obs.)
KERMADEC ISLANDS REGION (177)

RAO	1.84	358	P	56	57.00	0.0
			S	57	16.80	
DZM	16.65	299	iPc	00	27.10	7.2X
BRS	25.85	271	iPc	02	01.00	3.4X
ASPA	43.20	268	iPd	04	27.20	0.2
	0.7s		4.20nm			4.3mb
	Z 19s		0.20um			4.0Msz
ASPA	43.20	268	iPd	04	27.20	0.2
	0.7s		4.20nm			4.3mb
	Z 19s		0.20um			4.0Msz
TNP	89.07	43	P	09	21.20	0.6
KAF	145.24	340	iPKP	16	00.40	-2.0
	0.6s		19.30nm			
NUR	147.00	340	iPKP	16	06.40	1.1
	0.8s		44.00nm			
BCAO	149.32	213	iPKPc	16	16.20	5.7X
	0.7s		18.00nm			
			ic	16	21.00	
			ic	16	35.90	
NB2	149.45	351	PKP	16	12.80	3.5X
	0.7s		8.20nm			
HFS	149.95	348	ePKP	16	13.80	3.8X
	0.8s		22.00nm			

S.D. = 1.4 on 6 of 11 obs.

& JAN 17, 1991 04h 05m 17.69s
60.639 N 151.764 W
DEPTH = 67.7km
KENAI PENINSULA, ALASKA (14)
<AEIC>.

NKA	0.28	68	iP	05	30.08	1.5
RDT	0.32	259	iP	05	28.40	-0.6
REF	0.49	252	iP	05	29.92	-0.7
			eS	05	39.94	
RDN	0.51	256	iP	05	29.89	-0.8
			eS	05	39.80	
RSO	0.52	250	iP	05	30.27	-0.7
			iS	05	40.49	
RS2	0.52	251	iP	05	30.28	-0.7
			eS	05	40.44	
RED	0.55	247	iP	05	30.33	-0.7
			eS	05	40.68	
SPU	0.56	346	eP	05	30.59	-0.6
NCT	0.58	263	iP	05	30.52	-0.9
			eS	05	40.91	
CKL	0.63	334	iP	05	31.31	-0.6
NNL	0.64	159	iP	05	32.41	0.4
CRP	0.66	343	eP	05	31.91	-0.4
			eS	05	44.21	
CGLM	0.68	350	iP	05	32.02	-0.5
			eS	05	43.69	
BGL	0.70	334	iP	05	32.16	-0.6
			eS	05	44.59	
SLKM	0.77	99	eP	05	32.82	-0.7
			eS	05	45.41	
NCG	0.79	346	iP	05	33.31	-0.5
			eS	05	45.86	
INE	0.87	229	eP	05	33.73	-1.1
SUA	0.97	31	iP	05	35.60	-0.4
			eS	05	49.68	
BRLK	0.98	153	eP	05	35.33	-0.8
			eS	05	49.67	
HOM	0.99	176	eP	05	35.98	-0.1
CNPM	1.15	166	iP	05	37.57	-0.7
			eS	05	53.63	
XLV	1.19	179	eP	05	37.88	-0.9
OPT	1.23	217	iP	05	38.57	-0.8
			eS	05	54.72	
PMS	1.24	60	eP	05	38.83	-0.6
SKT	1.35	5	iP	05	40.08	-0.9
PWA	1.37	41	eP	05	41.14	0.0
PDB	1.48	236	eP	05	40.91	-1.8
PLRM	1.60	52	eP	05	43.20	-1.1
GHO	1.78	49	eP	05	45.39	-1.6
KNK	1.79	63	eP	05	45.57	-1.4
CUT	1.91	21	eP	05	48.01	-0.6
SVW	1.94	286	eP	05	46.57	-2.6
			eS	06	09.99	
MCNL	1.95	223	eP	05	47.50	-1.7
CDD	1.96	210	eP	05	48.08	-1.3
KNIM	2.01	97	eP	05	47.14	-2.9
GLI	2.31	82	eP	05	50.70	-3.4
VLZ	2.70	77	eP	05	57.16	-2.4
KLU	2.97	71	eP	06	00.51	-2.9

38 obs. ossocioted

? JAN 17, 1991 05h 00m 47.36± 0.92s
22.411 N ±18.9km 144.774 E ±17.0km
DEPTH = 33.0km (normol)
4.3mb (2 obs.)
VOLCANO ISLANDS REGION (213)

MAT	15.19	339	(P)	04	22.00	0.9
SSE	22.74	297	eP	05	47.50	-0.2
	Z 16s		0.40um			4.0MszX
			pP	05	54.50	25kmX
			eS	09	54.00	
NJ2	24.91	298	Pd	06	09.00	0.1
	Z 16s		0.30um			3.9MszX
			sP	06	18.40	
			S	10	33.00	
SNY	26.28	322	Pc	06	21.00	-0.5
LZH	37.95	300	eP	08	05.00	1.1
	1.7s		27.00nm			4.8mb
WRA	43.31	194	P	09	03.00	15.0X
	0.8s		2.50nm			
DZM	49.00	153	iPc	09	34.30	1.2
WMQ	51.28	309	eP	09	49.60	-0.7
GUN	53.16	289	P	10	00.00	-5.0X
INK	66.33	24	eP	11	33.00	-1.5
YKA	75.14	28	eP	12	28.50	0.8
	0.7s		0.70nm			3.8mb
TNP	82.47	52	(P)	13	10.00	1.6
ZOBO	148.41	85	PKP	20	27.00	-2.9
LPB	148.50	85	PKP	20	34.00	4.1X

S.D. = 1.5 on 11 of 14 obs.

& JAN 17, 1991 05h 24m 30.67s
61.410 N 146.572 W
DEPTH = 21.1km
SOUTHERN ALASKA (2)
<AEIC>.

VLZ	0.30	157	iP	24	37.18	-0.3
			eS	24	42.50	
KLU	0.32	75	iP	24	37.62	-0.3
			eS	24	43.49	
VZW	0.35	179	iP	24	37.86	-0.5
			eS	24	43.84	
GLI	0.59	206	iP	24	41.19	-1.0
			eS	24	49.92	
TOA	0.72	15	iP	24	43.64	-0.9
TZL	0.84	40	iP	24	45.51	-0.9
			eS	24	56.94	
KNK	0.91	271	iP	24	46.24	-1.4
GHO	1.18	289	eP	24	50.16	-1.9
KNIM	1.21	209	iP	24	50.80	-1.6
			eS	25	08.37	
SDG	1.22	23	iP	24	50.91	-1.7
			eS	25	06.03	
PLRM	1.24	280	eP	24	51.20	-1.6
			eS	25	07.13	
GLB	1.33	87	eP	24	52.18	-1.9
			eS	25	10.59	
PMS	1.45	265	eP	24	54.81	-1.0
MTU	1.52	201	eP	24	55.59	-1.2
PWA	1.60	280	eP	24	56.78	-1.2
PAX	1.65	18	eP	24	57.04	-1.7
			eS	25	17.88	
SEW	1.93	228	eP	25	00.91	-1.7
TGL	1.93	108	eP	25	01.34	-1.6
SLKM	2.00	245	eP	25	02.47	-1.3
SUA	2.01	273	eP	25	02.68	-1.3
BALM	2.08	99	eP	25	03.04	-2.0
SKT	2.43	286	eP	25	08.36	-1.5
CTGM	2.58	98	eP	25	10.48	-1.7
CGLM	2.62	270	eP	25	10.99	-1.7
SPU	2.66	267	eP	25	11.29	-1.9

17d 05h

NCG	2.69	272	eP	25 11.85	-1.8
CKL	2.79	268	eP	25 13.26	-1.8
BGL	2.81	270	eP	25 13.43	-1.9
RDT	2.96	256	eP	25 15.25	-2.2
CNPM	2.98	233	eP	25 15.86	-1.9
REF	3.13	256	eP	25 17.77	-2.2
RDN	3.15	256	eP	25 17.61	-2.6
RSO	3.16	255	eP	25 17.69	-2.8
RS2	3.16	255	eP	25 18.47	-2.1
NCT	3.21	257	eP	25 18.61	-2.5
INE	3.46	250	eP	25 19.29	-5.4

36 obs. associated

? JAN 17, 1991 05h 50m 56.88± 11.50s
33.331 S ±17.8km 72.480 W ±93.8km
DEPTH = 33.0km (normal)
OFF COAST OF CENTRAL CHILE (134)

IHA	0.77	67	iPd	51 11.00	-0.2
			eS	51 20.10	
LCCH	0.78	101	iP	51 10.10	-1.2
			iS	51 21.00	
LNV	1.09	125	iPd	51 16.00	0.2
			iS	51 30.00	
ROCH	1.28	74	iPc	51 18.90	0.1
			iS	51 36.70	
TACH	1.33	104	iPc	51 19.00	-0.3
			iS	51 36.70	
PCH	1.67	101	iP	51 25.00	0.7
			iS	51 47.70	
FCH	1.83	90	iPd	51 27.70	0.8
			iS	51 52.00	
MDZ	3.08	83	e(P)	51 34.50	-9.9X

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

? JAN 17, 1991 06h 42m 19.25± 2.72s
7.231 N ±24.6km 72.909 W ±53.7km
DEPTH = 110.0km (geophysicist)
3.6mb (1 obs.)
NORTHERN COLOMBIA (99)

HOBC	4.30	229	eP	43 23.30	-0.5
BUGC	4.70	225	eP	43 29.00	-0.3
CLMC	4.93	228	eP	43 34.00	1.5
			eS	44 18.30	
DIAC	5.10	220	eP	43 35.00	0.1
HOQC	5.27	225	eP	43 36.50	-0.7
ANCC	5.40	227	eP	43 38.20	-0.6
SILC	5.66	217	eP	43 43.00	0.2
SALC	5.67	222	eP	43 43.30	0.7
PURC	5.97	215	eP	43 46.80	-0.3
YKA	62.95	340	eP	52 36.00	0.0
	0.8s		0.60nm		3.6mb

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

? JAN 17, 1991 08h 04m 05.17± 7.28s
38.299 N ±62.5km 21.144 E ±20.2km
DEPTH = 33.0km (normal)
GREECE (364)

AGG	1.18	52	ePc	04 24.88	-0.5
			eS	04 38.12	
IGT	1.39	333	ePc	04 27.64	-0.7
			eS	04 42.28	
FNA	2.49	4	ePd	04 44.12	-0.2
GRG	2.83	20	iPc	04 47.98	-1.0

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

& JAN 17, 1991 08h 12m 19.39s
59.041 N 154.140 W
DEPTH = 112.3km
SOUTHERN ALASKA (2)
<AEIC>.

MCNL	0.18	325	iP	12 34.57	0.9
			eS	12 46.17	
CDD	0.28	113	iP	12 34.74	0.7
			eS	12 46.95	
AUI	0.47	51	eP	12 35.64	-0.9
PDB	0.75	358	eP	12 37.62	-1.0
OPT	0.77	37	iP	12 38.23	-0.6
			eS	12 51.85	
SYI	1.01	115	iP	12 40.08	-1.0
INE	1.16	28	iP	12 41.86	-1.1
			eS	12 59.33	
HOM	1.42	63	eP	12 44.90	-0.8
			eS	13 04.40	
RED	1.55	26	iP	12 46.10	-1.3
CNPM	1.57	71	eP	12 46.18	-1.4
			eS	13 06.92	
RS2	1.59	26	iP	12 46.81	-1.2
RSO	1.59	26	eP	12 46.79	-1.2
REF	1.63	26	eP	12 47.16	-1.3
RDN	1.63	25	iP	12 47.26	-1.2
NCT	1.64	21	iP	12 47.33	-1.2
NNL	1.76	54	eP	12 49.39	-0.5
RDT	1.77	29	eP	12 48.39	-1.7
BRLK	1.82	65	eP	12 50.29	-0.4
			eS	13 11.37	
SVW	2.20	341	eP	12 54.37	-1.3
NKA	2.25	39	eP	12 55.35	-0.8
CKL	2.34	22	iP	12 56.06	-1.5
SPU	2.39	25	eP	12 56.47	-1.6
BGL	2.40	21	iP	12 56.93	-1.3
SLKM	2.47	52	eP	12 57.16	-1.9
CGLM	2.51	24	eP	12 58.05	-1.7
NCG	2.57	22	eP	12 59.12	-1.4
SEW	2.61	64	eP	12 58.92	-2.0
SUA	2.96	33	eP	13 03.98	-1.8
PMS	3.18	44	eP	13 06.36	-2.3
SKT	3.22	23	eP	13 07.14	-2.0
PWA	3.37	37	eP	13 08.59	-2.5
KNIM	3.50	65	eP	13 09.58	-3.3
PLRM	3.57	42	eP	13 10.94	-2.9
KNK	3.70	48	eP	13 12.20	-3.5
GHO	3.77	41	eP	13 13.21	-3.4
CUT	3.87	28	eP	13 15.66	-2.3
GLI	3.99	59	eP	13 15.47	-4.1
VZW	4.31	59	eP	13 20.81	-3.1

38 obs. associated

? JAN 17, 1991 08h 41m 56.80± 4.18s
67.951 N ±31.7km 9.670 E ±40.3km
DEPTH = 10.0km (geophysicist)
NORWEGIAN SEA (642)
MD 3.4 (BER).

LOF	1.47	81	eP	42 23.54	0.3
			eSg	42 43.37	
NSS	3.56	164	eP	42 55.50	2.3X
			eS	43 32.77	
KTK1	5.11	72	eP	43 14.84	-0.3
MOL	5.48	190	eP	43 20.44	0.1
			eS	44 18.20	
NRA0	7.29	173	Pn	43 45.90	0.0
			Sn	45 00.70	
HFS	8.04	165	eP	43 56.20	-0.2
	0.4s		1.50nm		4.6mb

S.D. = 0.3 on 5 of 6 obs.

% JAN 17, 1991 09h 58m 51.06± 0.91s
39.112 N ± 7.4km 27.632 E ± 9.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

IZM	0.77	202	iPg	59 05.90	-0.2
			iSg	59 16.90	
DST	0.92	57	iPn	59 09.10	0.5
EZN	1.24	306	ePn	59 14.50	0.5
EDC	1.25	8	ePn	59 14.00	-0.2
BNT	1.26	10	ePn	59 14.00	-0.5

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

JAN 17, 1991 10h 54m 07.05± 0.48s
41.497 N ± 3.9km 23.578 E ± 4.7km
DEPTH = 5.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)
MD 2.2 (THE).

MMB	0.15	51	iPgd	54 10.00	-0.1
SRS	0.38	178	iPc	54 15.02	0.3
			eS	54 20.26	
KKB	0.52	315	iPgc	54 17.00	-0.5
			eSg	54 24.00	
KNT	0.61	237	ePc	54 20.10	0.8
SOH	0.70	194	ePd	54 20.70	-0.3
			eS	54 30.38	
RZN	0.87	77	ePg	54 25.00	0.5
			eSg	54 44.00	
GRG	1.04	239	iPd	54 27.30	0.2
PGB	1.14	22	eP	54 29.00	0.1
			eSg	54 44.00	
OUR	1.20	165	ePc	54 29.58	-0.3
			eS	54 45.90	
PAIG	1.57	177	ePc	54 34.82	-0.8

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

JAN 17, 1991 11h 19m 10.62± 0.59s
46.463 N ± 5.4km 8.257 E ± 6.4km
DEPTH = 10.0km (geophysicist)
SWITZERLAND (544)

MMK	0.46	206	iPc	19 19.90	-0.1
LLS	0.65	51	iPc	19 22.40	-1.4
VAI	0.70	149	P	19 26.70	2.4
			eSg	19 36.10	
DIX	0.70	237	iPc	19 24.10	-0.6
VDL	0.84	88	iPc	19 26.30	-0.7
EMS	1.00	247	ePc	19 29.70	0.0
ZLA	1.02	5	iP	19 31.30	1.3
SAX	1.09	43	iPd	19 31.60	0.4
SLE	1.31	7	ePd	19 34.10	-0.8
FEL	1.42	353	ePn	19 35.68	-0.9
LPL	1.42	229	Pg	19 35.60	-1.1
LPG	1.43	228	Pn	19 36.00	-0.8
			Sg	19 38.80	
			Sg	19 58.80	
BSF	1.70	324	Pg	19 42.50	2.0
			Sn	19 59.70	
			Sg	20 04.00	
HAU	2.02	321	Pg	19 47.00	1.9
			Sn	20 07.50	
			Sg	20 13.80	
CDF	2.06	341	Pn	19 44.30	-1.5
			Sn	20 14.50	
LBF	2.99	282	Pg	20 07.10	8.1X
			Sg	20 44.40	
SMF	3.05	275	Pg	20 08.50	8.7X
			Sg	20 46.40	
LOR	3.12	287	Pg	20 09.00	8.2X
			Sg	20 47.40	
SSF	3.32	282	Pg	20 13.00	9.3X
			Sg	20 54.80	

S.D. = 1.4 on 15 of 19 obs.

? JAN 17, 1991 12h 31m 52.92± 0.95s
40.836 N ± 8.5km 22.784 E ± 7.6km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 1.6 (THE).

THE	0.25	146	ePc	31 58.14	0
			iS	32 01.54	
GRG	0.31	293	ePc	31 59.46	0.0
			eS	32 03.90	
KNT	0.34	15	iPc	31 59.89	0.0
			eS	32 04.26	
SOH	0.43	92	ePd	32 01.74	0.0
			eS	32 07.54	

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

JAN 17, 1991 12h 48m 09.04± 0.60s
23.760 N ± 9.1km 108.703 W ±10.6km
DEPTH = 10.0km (geophysicist)
4.9mb (21 obs.) 4.2Msz (3 obs.)
GULF OF CALIFORNIA (49)

MZX	2.16	104	iP	48 44.00	-1.6
CRX	9.45	116	eP	50 29.00	0.5
III	10.15	120	eP	50 42.50	4.4X
PPM	10.48	115	iP	50 48.50	5.6X
GLA	10.71	331	eP	50 44.00	-1.5
ACX	10.76	128	eP	50 40.00	-6.3X
IIT	10.77	114	eP	50 52.00	5.4X
ALQ	11.31	9	eP	50 55.00	1.0
	1.2s		11.72nm		5.1mb
IISM	11.57	112	eP	51 02.50	5.2X
PLM	11.94	325	P	51 02.50	0.0
PEC	12.52	326	P	51 13.00	2.9X
OXX	13.04	118	eP	51 22.00	4.7X
SBB	13.48	326	eP	51 29.00	6.1X
GSC	13.48	330	eP	51 25.00	2.1
MEO	14.08	36	e(P)	51 35.00	4.2X
CLC	14.27	329	eP	51 35.00	1.7
SYP	14.55	320	eP	51 36.00	-1.0
ISA	14.57	327	eP	51 43.00	5.7X
MSU	15.00	349	P	51 44.00	1.0
TNP	16.02	335	P	51 57.00	0.7
	1.5s		136.36nm		4.9mb
PRI	16.10	323	eP	52 01.50	4.4X

GOL	16.14	9	P	52	00.00	2.2
	1.0s	15.50nm			4.1mb	
GLD	16.21	10	P	52	01.00	2.4
	1.0s	100.00nm			4.9mb	
FRI	16.23	327	eP	52	01.90	3.2X
			e	52	08.70	
BONR	16.36	332	P	52	04.00	3.4X
TUL	16.47	40	ePc	52	03.70	1.9
	1.4s	31.20nm			4.2mb	
Z	20s	0.25um			4.0MszX	
			i	52	09.80	
			Lg	56	58.70	
			LR	57	09.20	
LLA	16.60	323	eP	52	05.70	2.3
			e	52	12.30	
PRS	16.63	322	eP	52	06.00	2.2
			e	52	13.40	
DAU	16.74	353	P	52	06.50	1.0
SAO	16.98	323	eP	52	13.00	4.8X
CMB	17.38	328	eP	52	14.20	0.9
			e	52	21.00	
ARN	17.45	324	P	52	14.00	-0.2
BKS	18.22	324	e(P)	52	25.40	1.8
	1.6s	175.00nm			5.0mb	
			eLR	57	16.00	
			eLQ	58	16.00	
BRK	18.23	324	eP	52	25.30	1.6
			e	52	31.50	
BW06	18.98	358	P	52	31.00	-2.2
	1.0s	30.00nm			4.5mb	
MIN	19.79	330	eP	52	42.50	0.0
			e	52	49.90	
WDC	20.41	329	eP	52	46.80	-2.1
			e	52	53.20	
RSSD	20.67	10	P	52	50.00	-1.8
FVM	21.09	44	P	52	51.00	-4.9X
LRM	22.22	353	eP	53	07.50	0.0
LON	25.24	339	P	53	35.80	-0.9
NEW	25.35	347	P	53	36.00	-1.7
	0.9s	19.74nm			4.8mb	
SES	26.65	357	eP	53	48.00	-1.7
FFC	31.33	8	eP	54	29.50	-2.1
	1.2s	21.00nm			4.9mb	
YKA	38.92	356	eP	55	33.20	-3.2X
	0.9s	5.30nm			4.2mb	
SCH	43.84	34	eP	56	23.00	6.1X
KDC	46.14	329	P	56	33.50	-1.7
INK	47.07	348	ePd	56	40.70	-1.7
FRB	47.91	23	eP	56	55.00	5.9X
FBA	48.26	339	P	56	50.20	-1.6
	0.8s	6.90nm			4.8mb	
TTA	50.17	334	P	57	04.50	-2.1
	0.9s	18.75nm			5.1mb	
IMA	50.94	338	P	57	10.00	-2.5
MBC	52.81	357	ePd	57	24.80	-1.5
	0.8s	17.00nm			5.0mb	
ZOBO	56.16	131	P	57	52.00	-0.2
Z	20s	0.12um			4.0Msz	
			eLR	18	16.00	
LPB	56.36	131	P	57	53.00	-0.5
SIV	61.04	126	P	58	25.90	0.3
ROCH	66.89	146	eP	59	05.50	1.6
DAG	67.04	14	iPd	59	07.90	3.9X
	1.1s	8.86nm			4.9mb	
LNV	67.47	147	eP	59	09.00	1.8
FCH	67.54	146	eP	59	10.50	2.4
BAO	71.06	117	e(P)	59	30.00	0.1
PPD	72.02	125	e(P)	59	35.00	-0.4
PDCR	76.95	110	eP	00	04.70	0.8
FLN	83.64	39	eP	00	47.20	8.2X
	1.3s	72.20nm			5.7mb	
Z	19s	0.13um			4.3Msz	
LDF	83.93	39	eP	00	48.60	8.1X
MAF	86.70	40	eP	01	02.40	8.0X
	1.0s	8.00nm			4.9mb	
SSF	86.81	39	eP	01	01.40	6.5X
	1.1s	19.55nm			5.2mb	
AVF	86.87	40	eP	01	01.60	6.4X
	1.0s	8.00nm			4.9mb	
LOR	86.91	39	eP	01	01.90	6.5X
	1.1s	14.65nm			5.1mb	
Z	21s	0.13um			4.3Msz	
LBF	87.13	39	eP	01	03.00	6.5X
	1.1s	18.30nm			5.2mb	
SMF	87.23	40	eP	01	03.60	6.6X
	1.0s	8.00nm			4.9mb	
WRA	121.77	261	PKP	07	04.00	-1.5

2.6s 2.00nm
S.D. = 1.6 on 45 of 72 obs.

? JAN 17, 1991 13h 01m 28.95± 0.65s
51.443 S ±11.4km 140.564 E ±26.7km
DEPTH = 10.0km (geophysicist)
5.0mb (5 obs.) 5.0Msz (4 obs.)
SOUTH OF AUSTRALIA (437)

TOO	14.30	16	e(P)	04	52.00	-1.5
BFD	14.33	6	e(P)	04	59.00	5.2X
ADE	16.52	355	e(P)	05	14.40	-7.8X
	0.7s	31.51nm			4.6mb	
RMQ	25.69	17	eP	06	59.50	-1.1
BRS	25.74	26	iP	07	03.00	1.9
			eS	11	39.00	
VNDA	27.36	170	iP	07	16.00	0.5
QIS	30.83	358	iPc	07	42.50	-4.7X
WRA	31.81	349	P	07	49.00	-6.8X
	0.8s	8.70nm			4.7mb	
SPA	38.75	180	eP	08	53.00	-1.8
	1.0s	42.50nm			5.1mb	
CHG	78.86	320	eP	13	31.90	-1.8
GYA	83.11	330	eP	13	57.40	1.4
KMI	83.18	326	eP	13	56.20	-0.3
SSE	83.94	343	Pc	14	01.00	1.1
	1.3s	29.00nm			5.3mb	
Z	20s	0.50um			4.9Msz	
			eS	24	20.00	
CD2	88.16	329	eP	14	19.50	-1.4
Z	20s	0.80um			5.1Msz	
			S	25	03.00	
XAN	89.55	334	eP	14	26.50	-0.9
LZH	92.92	331	P	14	45.00	2.0
	2.0s	21.00nm			5.2mb	
Z	24s	0.52um			4.9MszX	
GTA	97.23	329	eP	15	07.00	4.4X
Z	18s	0.40um			4.9Msz	
YKA	139.92	44	ePKP	20	54.20	-3.6X
	0.9s	0.60nm				
PRU	146.44	289	ePKP	21	09.50	0.1
			e	21	11.00	
KHC	146.66	287	ePKP	21	09.80	-0.1
			e	21	15.40	
CLL	147.85	291	ePKP	21	18.00	6.4X
	1.5s	27.00nm				
GRF	148.29	287	ePKP	21	16.50	4.1X
Z	21s	0.30um			5.1Msz	
LPL	149.24	277	ePKP	21	15.70	1.3
	1.1s	17.10nm				
IFR	149.38	248	ePKP	21	23.00	8.1X
APO	149.61	308	ePKP	21	18.70	4.6X
	1.1s	7.10nm				
BSF	150.23	281	ePKP	21	16.10	0.5
	0.7s	6.60nm				
AVE	150.53	244	ePKP	21	11.00	-5.3X
NB2	150.98	309	PKP	21	19.80	3.6X
	1.0s	8.80nm				
LBF	151.61	278	ePKP	21	21.30	3.7X
	0.8s	12.10nm				
CAF	151.87	273	ePKP	21	22.10	4.0X
AVF	151.92	277	ePKP	21	22.50	4.5X
	0.9s	4.90nm				
SSF	151.94	278	ePKP	21	21.90	3.9X
	0.8s	10.75nm				
EPF	152.01	268	ePKP	21	22.20	3.9X
	0.7s	5.50nm				
BGF	152.13	277	ePKP	21	22.70	4.4X
	0.9s	14.75nm				
DAG	153.36	350	iPKPc	21	28.40	9.2X
	1.0s	8.00nm				

S.D. = 1.4 on 16 of 35 obs.

JAN 17, 1991 13h 32m 12.89± 0.59s
40.006 N ± 4.8km 23.293 E ± 4.3km
DEPTH = 5.0km (geophysicist)
GREECE (364)
MD 2.3 (THE).

PAIG	0.31	105	iPd	32	18.98	-0.1
			eS	32	23.50	
OUR	0.62	58	ePc	32	25.34	0.0
			eS	32	33.58	
LIT	0.62	279	iPd	32	25.22	-0.2
			eS	32	35.38	
THE	0.67	338	ePc	32	26.06	-0.3
			eS	32	35.66	
SOH	0.82	3	iPc	32	28.50	-0.7
SRS	1.13	12	ePc	32	34.98	0.4
GRG	1.17	325	ePd	32	35.18	0.0
			eS	32	51.78	
KNT	1.19	346	ePc	32	36.42	0.8
			eS	32	53.22	
AGG	1.23	217	ePd	32	36.42	0.1
			eS	32	53.78	
VAY	1.42	338	ePn	32	39.30	-0.1

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

? JAN 17, 1991 13h 55m 52.35± 1.74s
4.443 N ±24.7km 76.290 W ±29.6km
DEPTH = 110.0km (geophysicist)
COLOMBIA (103)
MD 3.3 (UVC).

HOBC	0.18	120	eP	56	08.86	-0.5
BUGC	0.55	177	eP	56	10.64	0.7
CLMC	0.62	206	eP	56	11.20	0.7
			eS	56	26.10	
HOQC	1.03	200	eP	56	14.39	0.0
			eS	56	31.70	
ANCC	1.09	212	iPc	56	14.05	-0.7
DIAC	1.15	175	eP	56	15.10	-0.5
SALC	1.51	196	eP	56	20.09	0.2

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

JAN 17, 1991 14h 04m 11.12± 0.90s
19.769 N ± 9.8km 63.624 W ± 6.3km
DEPTH = 33.0km (normal)
3.9mb (1 obs.)
LEEWARD ISLANDS (92)
ML 3.9 (FDF).

LPR	2.57	236	iP	04	51.20	-0.3
CPD	2.77	232	iP	04	54.40	0.2
SJG	2.90	236	iP	04	56.00	-0.1
SEG	3.91	149	eP	05	10.41	0.1
PAG	4.15	153	eP	05	14.40	0.5
			S	05	47.00	
SFG	4.19	146	eP	05	14.20	-0.1
DEG	4.21	144	eP	05	13.90	-0.8
MGG	4.42	150	eP	05	17.80	0.2
BBL	4.69	154	eP	05	21.71	0.2
YKA	55.04	334	eP	13	41.70	0.1
	0.6s	0.80nm			3.9mb	

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

? JAN 17, 1991 14h 15m 11.47± 0.98s
37.106 N ± 9.4km 29.450 E ± 7.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.4 (ISK).

ELL	0.51	134	iPg	15	21.50	-0.4
			eSg	15	30.00	
YER	0.93	272	iPg	15	29.60	0.3
BCK	0.97	68	iPn	15	30.70	0.7
KHL	1.22	3	iPn	15	33.60	-0.6
ALT	2.01	15	ePn	15	51.00	5.0X

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

& JAN 17, 1991 15h 49m 44.69s
56.866 N 142.824 W
DEPTH = 10.0km (geophysicist)
GULF OF ALASKA (15)
<AEIC>.

YKU	3.15	30	eP	50	30.18	-5.1
HQN	3.33	37	eP	50	32.03	-5.8
PNL	3.34	31	iP	50	32.38	-5.7
BCPM	3.52	27	eP	50	34.84	-5.7
YAH	3.55	9	iP	50	35.72	-5.5
TGL	3.90	360	eP	50	40.81	-5.2
MTU	4.03	323	eP	50	40.76	-7.0
			eS	51	24.40	
SIT	4.11	84	eP	50	41.49	-7.3
CTGM	4.18	10	eP	50	44.21	-5.9
BALM	4.19	3	eP	50	44.10	-6.0
			eS	51	28.84	
PLBC	4.30	50	eP	50	46.10	-5.4
			eS	51	31.80	
KNIM	4.34	326	eP	50	45.28	-6.8
GLB	4.62	354	eP	50	49.51	-6.7
			eS	51	40.14	
VZW	4.63	337	eP	50	49.76	-6.5

17d 15h

			eS	51	38.15	
SEW	4.76	316	eP	50	50.67	-7.4
			eS	51	41.72	
HYT	4.84	33	eP	50	54.00	-5.4
KLU	4.91	342	eP	50	54.66	-5.6
			eS	51	45.60	
CNPM	5.19	304	eP	50	57.29	-6.9
SLKM	5.31	317	eP	50	59.44	-6.5
KNK	5.40	330	eP	51	01.85	-5.4
WHC	5.58	43	eP	51	04.10	-5.7
GHO	5.83	330	eP	51	07.74	-5.5
RDT	6.22	311	eP	51	11.26	-7.5
RDN	6.34	309	eP	51	13.61	-7.0
SPU	6.43	316	eP	51	14.79	-7.0
CGLM	6.50	317	eP	51	15.94	-6.8
CKL	6.55	315	eP	51	16.66	-6.9
NCG	6.61	317	eP	51	17.65	-6.7
BGL	6.61	316	eP	51	17.50	-6.9
CWB	7.25	116	eP	51	24.00	-9.2
	30 obs. associated					

• JAN 17, 1991 16h 18m 22.31± 1.05s
23.568 N ±12.1km 109.126 W ±15.2km
DEPTH = 10.0km (geophysicist)
3.8mb (4 obs.)
BAJA CALIFORNIA (48)

MZX	2.51	98	iP	19	04.50	0.7
GLA	10.70	333	eP	21	06.00	7.3X
ANMO	11.57	11	P	21	12.00	1.2
	1.0s	11.25nm				5.1mb X
SBB	13.43	328	eP	21	35.00	-0.5
GSC	13.46	332	eP	21	45.00	9.1X
MSU	15.12	351	P	21	59.00	1.1
TNP	16.04	336	(P)	22	11.00	1.3
BONR	16.35	333	P	22	19.00	5.2X
GOL	16.39	10	P	22	15.00	0.7
	0.9s	5.68nm				3.7mb
TUL	16.87	40	e(P)	22	19.80	-0.3
CMB	17.34	329	P	22	34.00	8.0X
	1.0s	6.67nm				3.7mb
BW06	19.16	359	P	22	47.00	-1.7
RSSD	20.92	10	P	23	06.00	-1.7
LON	25.28	339	P	23	58.00	7.7X
SES	26.82	357	eP	24	10.00	5.5X
YKA	39.08	356	eP	25	49.00	-2.0
	0.8s	2.00nm				3.8mb
INK	47.17	348	eP	26	57.00	0.5
FBA	48.30	339	(P)	27	06.50	1.1
MBC	52.98	357	eP	27	40.50	-0.3
	0.7s	6.00nm				4.6mb
ZOBO	56.33	131	P	28	08.00	1.3
LPB	56.53	131	P	28	09.00	1.1
SIV	61.25	125	P	28	37.60	-2.6
	S.D. = 1.4	on 16 of 22 obs.				

• JAN 17, 1991 16h 32m 10.15± 1.79s
24.007 N ±23.3km 108.698 W ±14.9km
DEPTH = 10.0km (geophysicist)
4.5mb (4 obs.)
GULF OF CALIFORNIA (49)

MZX	2.23	111	iP	32	48.00	0.3
GLA	10.50	331	eP	34	48.00	4.3X
ANMO	11.07	10	(P)	34	46.00	-5.8X
PLM	11.74	324	eP	35	05.00	4.1X
GSC	13.27	330	eP	35	25.00	3.8X
SBB	13.28	325	eP	35	26.00	4.6X
CLC	14.06	329	eP	35	32.00	0.4
SYP	14.37	319	eP	35	36.00	0.3
PV09	14.45	359	P	35	37.40	0.4
PRI	15.90	322	e(P)	35	57.50	1.8
			e	36	05.70	
FRI	16.03	326	ePc	35	58.90	1.7
			e	36	04.90	
			e	36	10.30	
TUL	16.28	40	eP	36	01.60	1.1
	1.2s	9.90nm				3.8mb
			e	36	07.90	
LLA	16.40	323	e(P)	36	00.00	-2.0
			e	36	06.10	
PRS	16.44	321	e(P)	36	03.00	0.5
			e	36	09.10	
			e	36	14.60	
CMB	17.18	327	eP	36	11.30	-0.5
			e	36	17.20	
			e	36	23.20	
WDC	20.20	328	e(P)	36	43.40	-4.4X
			e	36	49.20	
			e	36	54.70	
LRM	21.98	353	eP	37	04.90	-1.3
SES	26.40	357	eP	37	46.00	-2.6
FFC	31.09	8	ePd	38	33.40	2.9X
	1.5s	38.00nm				5.1mb
YKA	38.68	356	eP	39	30.30	-5.1X
	1.1s	4.90nm				4.1mb
INK	46.83	348	eP	40	38.00	-3.6X
MBC	52.56	357	ePc	41	22.00	-3.5X
	1.0s	12.00nm				4.8mb
ZOBO	56.32	131	P	41	43.00	-11.5X
LPB	56.52	132	P	41	48.00	-7.7X
SIV	61.18	126	P	42	23.20	-4.4X
			i	42	30.90	
WRA	121.82	261	PKP	51	02.00	-4.7X
	0.3s	0.80nm				
	S.D. = 1.5	on 12 of 26 obs.				

JAN 17, 1991 17h 22m 52.49± 0.46s
23.686 N ± 7.0km 108.877 W ± 6.5km
DEPTH = 10.0km (geophysicist)
5.2mb (24 obs.) 4.6Msz (7 obs.)
GULF OF CALIFORNIA (49)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 23C
Centroid Location:
Origin Time 17:23: 3.0 0.4
Lat 24.63N 0.06 Lon 108.81W 0.06
Dep 15.0 FIX Half-duration 1.6
Moment Tensor; Scale 10**16 Nm
Mrr=-7.86 0.49 Mtt= 0.34 0.62
Mff= 7.52 0.66 Mrt= 0.00 0.00
Mrf= 0.00 0.00 Mtf= 4.31 0.48
Principal Axes:

	Val=	Plg=	Azm=
T	9.54	0	115
N	-1.68	0	25
P	-7.86	90	180

Best Double Couple:Mo=8.7*10**16
NP1:Strike=205 Dip=45 Slip= -90
NP2: 25 45 -90

MZX	2.30	102	iP	23	28.50	-2.6
GLA	10.70	332	P	25	30.00	1.2
ALQ	11.41	10	eP	25	38.50	-0.3
	1.5s	45.14nm				5.6mb
ANMO	11.42	10	P	25	38.00	-0.8
PLM	11.91	326	P	25	44.00	-1.5
RVR	12.68	326	eP	25	57.00	1.4
MWC	13.21	325	eP	26	14.00	11.1X
SBB	13.45	327	eP	26	07.00	1.0
GSC	13.47	331	eP	26	08.00	1.8
MEO	14.24	37	e(P)	26	16.50	0.3
CLC	14.25	330	eP	26	16.00	-0.5
SYP	14.51	321	eP	26	19.00	-0.9
MSU	15.05	350	P	26	29.00	2.0
PRI	16.06	323	eP	26	40.00	-0.1
FRI	16.21	327	ePd	26	43.60	1.8
			e	27	00.60	
GOL	16.24	10	P	26	44.00	1.5
	1.0s	27.50nm				4.3mb
LLA	16.56	324	eP	26	44.70	-1.7
PRS	16.59	322	e(P)	26	47.30	0.6
TUL	16.63	40	eP	26	48.30	1.0
	1.4s	153.40nm				4.9mb
	Z 20s	0.69um				5.1Msz
			LR	31	12.50	
			eLg	31	47.20	
DUG	16.79	350	P	26	51.00	1.6
DAU	16.80	354	P	26	50.00	0.3
CMB	17.36	328	e(P)	26	54.50	-1.9
BKS	18.19	324	eP	27	07.20	0.5
	1.8s	321.00nm				5.2mb
			e(S)	30	52.20	
			eLR	31	02.00	
BRK	18.20	324	e(P)	27	07.30	0.5
BW06	19.05	358	P	27	15.00	-2.5
ORV	19.09	329	eP	27	19.00	1.2
OLY	19.14	48	P	27	20.00	1.6
IMW	20.23	356	P	27	33.00	2.2
WDC	20.39	329	eP	27	31.30	-0.8
FHC	21.27	327	e(P)	27	39.20	-2.0
ELC	21.63	47	P	27	45.00	0.1
LRM	22.27	353	eP	27	53.10	1.6
RSCP	23.42	54	P	28	02.00	-0.6
	Z 18s	1.68um				4.5Msz
TKL	24.79	55	P	28	15.00	-0.8
LON	25.25	339	P	28	20.00	-0.2
NEW	25.39	347	P	28	22.50	1.0
	1.1s	47.84nm				5.1mb
LHS	26.70	60	P	28	37.00	3.3X
SES	26.72	357	ePc	28	32.50	-1.2
	1.4s	127.00nm				5.4mb
			pP	28	40.00	26kmX
NAV	27.63	54	P	28	43.00	0.8
EDM	29.69	355	eP	29	05.00	4.4X
FFC	31.02	8	eP	29	13.00	-2.9
	1.4s	50.00nm				5.2mb
RSNY	34.87	45	P	29	50.00	4.1X
	Z 18s	1.16um				4.7Msz
HOBC	36.96	116	ePd	30	05.09	1.0
CUMC	37.60	122	eP	30	15.23	5.3X
SILC	37.76	119	eP	30	15.96	4.9X
PURC	37.95	119	eP	30	17.47	4.6X
YKA	38.98	356	eP	30	18.50	-1.8
	1.0s	15.40nm				4.6mb
HON	45.28	277	P	31	23.00	10.7X
	Z 21s	0.59um				4.5Msz
TOA	45.93	337	eP	31	18.90	1.9
			e	31	25.80	
KDC	46.13	329	P	31	19.00	0.5
PMR	46.73	335	e(P)	31	24.00	0.8
INK	47.11	348	eP	31	25.00	-1.1
FBA	48.28	339	eP	31	36.00	0.6
SVW	49.14	332	eP	31	42.20	0.1
			e	31	48.80	
TTA	50.17	334	eP	31	48.60	-1.5
			i	31	56.40	
IMA	50.95	338	e(P)	31	54.30	-1.7
	0.9s	5.70nm				4.5mb
			e	32	02.10	
MBC	52.87	357	ePd	32	08.90	-1.3
	1.0s	57.00nm				5.5mb
ZOBO	56.23	131	P	32	38.00	1.8
	1.1s	11.60nm				4.8mb
	Z 20s	0.38um				4.5Msz
			S	40	24.00	
			LR	51	16.00	
LPB	56.43	131	P	32	43.00	5.6X
CNCB	56.71	131	P	32	40.50	1.0
SIV	61.13	126	P	33	10.70	1.1
DAG	67.15	14	eP	33	45.50	-2.7
	1.2s	23.44nm				5.3mb
BAO	71.17	117	e(P)	34	18.00	4.0X
PPD	72.11	125	e(P)	34	21.00	1.6
SOB1	73.99	108	eP	34	34.50	4.0X
NB2	82.81	25	P	35	18.00	-0.1
	1.2s	15.60nm				5.1mb
GRR	83.76	40	eP	35	23.20	0.1
FLN	83.80	39	eP	35	24.20	0.9
	1.2s	83.30nm				5.8mb
	Z 20s	0.32um				4.7Msz
LPF	83.82	40	eP	35	23.30	-0.1
	1.2s	59.50nm				5.7mb
APO	84.16	25	eP	35	19.00	-5.9X
	0.9s	1.90nm				4.3mb
LSF	86.23	41	eP	35	24.60	-10.9X
ENN	86.31	35	eP	35	37.50	1.7
	1.0s	12.00nm				5.0mb
TCF	86.61	40	eP	35	37.00	-0.5
	1.0s	10.00nm				5.0mb
RJF	86.70	41	eP	35	37.70	-0.2
	1.0s	16.00nm				5.2mb
	Z 22s	0.50um				4.9Msz
LPO	86.81	42	eP	35	38.30	-0.1
BGF	86.85	40	eP	35	38.20	-0.4
MAF	86.86	40	eP	35	38.30	-0.3
	1.3s	28.90nm				5.3mb
MAL	86.91	51	eP	35	48.00	9.0X
SSF	86.97	39	eP	35	38.80	-0.3
	1.0s	21.00nm				5.3mb
AVF	87.02	40	eP	35	38.80	-0.6
	1.1s	12.20nm				5.0mb
LOR	87.06	39	eP	35	39.50	-0.1
	1.0s	22.00nm				5.3mb
	Z 20s	0.43um				4.8Msz
EPF	87.11	44	eP	35	42.10	2.1
CAF	87.23	42	eP	35	40.10	-0.4
LBF	87.28	39	eP	35	40.30	-0.4
	1.1s	29.30nm				5.5mb
SMF	87.39	40	eP	35	40.50	-0.7
MAT	92.90	312	eP	36	08.00	0.8

```
WRA    121.61 260 PKP    41 49.00   0.3
        0.7s      3.10nm
BCAO   121.64  68 iPKPd  41 50.00   1.0
        0.6s      4.00nm
ASPA   122.95 256 ePKP   41 52.30   1.1
        0.9s      3.00nm
GUN    126.77 344 PKP    41 58.14  -0.8
        1.1s     24.00nm
GKN    126.99 345 PKP    41 57.46  -1.6
        1.2s     20.00nm
KKN    127.03 344 PKP    41 58.50  -0.8
        1.1s     19.00nm
PKI    127.21 344 PKP    41 56.98  -2.8
DMN    127.25 344 PKP    41 57.40  -2.3
KOD    145.72 349 ePKP   42 35.50   1.4
     S.D. = 1.3  on  81 of  95 obs.
-------------------------------------
* JAN 17, 1991  17h 48m 13.60± 1.03s
  23.539 N ±15.4km  108.718 W ±19.0km
  DEPTH =  10.0km  (geophysicist)
  3.5mb (  1 obs.)
 GULF OF CALIFORNIA                ( 49)

FRI     16.41 327 e(P)  52 04.20  -1.3
TUL     16.65  39 e(P)  52 08.60   0.0
CMB     17.56 328 eP    52 21.40   1.3
YKA     39.14 356 eP    55 37.50  -5.3X
        0.8s      1.00nm        3.5mb
ZOBO    56.03 131 P     57 56.00   0.2
LPB     56.23 131 eP    57 58.00   1.0
CNCB    56.50 131 P     57 58.00  -1.2
     S.D. = 1.4  on   6 of   7 obs.
-------------------------------------
* JAN 17, 1991  18h 05m 40.11± 0.80s
  44.570 N ±10.3km   17.755 E ±13.0km
  DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                        (383)
     MD 3.2 (TRI). ML 2.7 (TTG), 2.7
     (ZAG), 2.7 (LJU).

HVAR    1.68 215 iPnc   06 08.20  -1.5
             iSn    06 32.80
PLE     1.71 136 ePn    06 10.50   0.2
             eSn    06 34.50
BRY     1.76 161 ePn    06 11.60   0.6
             eSn    06 36.50
ZAG     1.77 315 iPg    06 10.60  -0.3
             iSn    06 30.00
PTJ     1.84 317 ePg    06 09.60  -2.4
             eSn    06 31.90
NKY     1.97 152 ePn    06 13.20  -0.8
             eSn    06 42.00
VBY     2.00 299 ePn    06 15.00   0.7
             iSn    06 42.20
HCY     2.19 165 ePn    06 17.40   0.3
             eSn    06 47.00
TTG     2.40 152 ePn    06 20.60   0.5
             eSn    06 52.60
RIY     2.51 289 ePn    06 22.90   1.3
             iSn    06 53.30
CEY     2.63 298 eP     06 25.80   2.5X
             e(Sg)  06 59.90
LJU     2.71 304 eP     06 26.00   1.5
             e      06 28.90
             e(Sn)  06 48.90
             e      07 07.50
TRI     3.05 293 e(Pn)  06 34.70   5.5X
             i(Pg)  06 38.00
             i(Sg)  07 13.00
             i      07 24.00
VOY     3.09 300 e(Pn)  06 31.80   1.9X
             e(Sg)  07 15.70
KHC     5.39 329 ePg    07 02.40  -0.1
             eSg    08 01.20
     S.D. = 1.3  on  12 of  15 obs.
-------------------------------------
* JAN 17, 1991  18h 23m 17.93± 0.67s
  18.037 N ±12.2km  101.750 W ±15.3km
  DEPTH =  55.7km  (  2 depth phases)
  4.7mb (  6 obs.)
 GUERRERO, MEXICO                  ( 59)
     Felt in Guerrero.

ANMO   17.36 347 P      27 20.00   2.0
             pP     27 32.40
TUL    18.57  15 e(P)  27 30.70  -2.0
PLM    20.41 321 eP    27 57.00   3.9X

PV09   21.38 344 P      28 03.70   0.6
GSC    21.78 325 eP     28 08.00   1.1
SBB    21.91 322 eP     28 08.00  -0.2
CLC    22.60 325 eP     28 15.00   0.1
             e      28 30.00  65km
ISA    22.98 323 eP     28 21.00   2.4
LRM    29.10 345 ePc    29 15.50  -0.2
SES    33.13 349 eP     29 50.00  -0.8
EDM    36.26 348 iPc    30 11.40  -6.2X
FFC    36.62 360 eP     30 19.00  -1.5
        0.8s     20.00nm        5.1mb
YKA    45.31 352 eP     31 29.60  -2.2
        0.7s      2.10nm        4.1mb
ZOBO   47.53 134 P      31 50.00  -0.5
LPB    47.73 134 eP     31 57.00   5.1X
CNCB   48.00 134 P      31 54.00  -0.2
SIV    52.43 128 P      32 23.70  -3.7X
INK    54.10 346 eP     32 38.00  -0.9
             pP     32 51.00  47km
FBA    55.94 338 P      32 51.80  -0.6
MBC    58.95 355 eP     33 13.00  -0.4
        1.0s      8.00nm        4.8mb
SOB1   65.89 109 eP     34 02.20   1.7
NB2    84.94  27 P      35 48.90   0.8
        1.0s      3.80nm        4.5mb
RJF    86.33  43 eP     35 55.60   0.3
TCF    86.41  42 eP     35 57.00   1.3
        0.7s      4.40nm        4.8mb
MAF    86.67  42 eP     35 58.00   1.1
SSF    86.94  41 eP     35 58.10  -0.1
LOR    87.08  41 eP     36 00.30   1.4
        0.7s      4.95nm        4.8mb
LBF    87.26  41 eP     36 00.10   0.3
WRA   127.14 258 PKP    42 18.00  -0.4
        0.7s      3.10nm
ASPA  127.96 254 ePKP   42 18.20  -1.7
        1.4s      3.40nm
HYB   144.77 359 ePKP   42 49.50  -1.5
GBA   148.55   2 PKPd   43 00.60   3.4X
        0.4s      1.00nm
     S.D. = 1.3  on  27 of  32 obs.
-------------------------------------
   JAN 17, 1991  20h 11m 31.20± 0.11s
   5.003 S ± 2.5km  151.204 E ± 2.8km
   DEPTH = 143.5km  ( 10 depth phases)
   5.6mb ( 52 obs.)
 NEW BRITAIN REGION                (192)
      CENTROID, MOMENT TENSOR      (HRV)
      Doto Used: GDSN
      L.P.B.: 15S, 33C
      Centroid Location:
      Origin Time        20:11:39.6 0.4
      Lat  4.77S 0.04 Lon 151.27E 0.04
      Dep 147.1 1.3 Half-duration  3.0
      Moment Tensor;   Scale 10**17 Nm
        Mrr=-1.25 0.12  Mtt= 0.50 0.16
        Mff= 0.75 0.16  Mrt=-3.52 0.12
        Mrf=-0.50 0.12  Mtf= 4.52 0.15
       Principal Axes:
        T  Val=  6.27  Plg=22  Azm=139
        N       -0.94      49       256
        P       -5.32      33        34
      Best Double Couple:Mo=5.8*10**17
       NP1:Strike=180 Dip=50 Slip=-171
       NP2:         84     83       -40

RAB     1.26  50 iPd    11 59.50   1.5
YYYY    5.36 256 eP     12 52.00   1.7
PMG     5.94 222 iPd    12 59.30   1.2
MNDI    7.60 261 eP     13 25.00   4.3X
SVO     9.49 116 iP     13 45.00  -0.7
             eS     15 17.00
HNR     9.72 117 iPc+   13 49.40   0.6
             eS     15 35.00
JAY    10.76 283 ePc    14 04.50   1.9
        1.2s    253.70nm        5.8mb
QIS    19.14 215 iPd    15 45.40  -0.4
             i      19 12.30
GUA    19.45 341 ePd    15 50.80   1.7
        0.8s   1373.13nm        6.4mb
             eS     19 26.00
PJG    19.51 341 ePd    15 51.20   1.5
BKM    20.89 128 iPd    16 04.40   0.7
MTN    21.29 247 eP     16 10.00   2.3
        0.3s    183.00nm        6.0mb
RMO    21.49 186 iPc    16 10.10   0.5
             e      23 32.00

BRS    22.32 176 iPd-   16 18.50   0.8
             ipP    16 46.00 137km
             iS     20 14.50
             iScP   23 35.00
             iScS   27 21.00
OLP    22.47 197 iPc    16 20.80   1.7
DZM    22.49 140 iPc    16 20.30   0.9
KNA    24.49 242 iPc    16 38.90   0.3
        0.7s    214.00nm        5.8mb
ASPA   24.95 220 iPd    16 42.70  -0.2
        0.8s    374.90nm        6.0mb
     Z  23s      1.50um        4.4MszX
             iPP    17 11.80
             iS     20 52.20
             iScP   23 36.50
             iScS   27 28.90
COO    25.45 179 iPc    16 48.00   0.5
        1.0s    371.00nm        5.9mb
             i      23 45.00
CMS    26.82 190 eP     16 59.00  -1.0
        0.5s     63.00nm        5.5mb
             e      23 48.00
SGE    28.98 118 eP     17 19.60  -0.1
CNB    30.21 183 iPc    17 30.70   0.4
        1.2s    194.00nm        5.7mb
WARB   31.55 226 iPd    17 41.50  -0.6
             e      22 38.00
ADE    31.98 200 iPc    17 45.30  -0.4
        0.7s    143.84nm        5.9mb
TOO    32.83 188 eP     17 53.00  -0.1
        1.0s    118.00nm        5.6mb
             e      24 07.00
BFD    32.99 193 eP     17 57.00   2.6
FORR   33.67 218 iPd    17 58.90  -1.4
        0.4s     50.00nm        5.6mb
MBL    34.41 239 iPd    18 05.70  -1.1
        0.5s     47.00nm        5.5mb
PGP    35.21 302 ePc    18 19.00   5.3X
AFI    37.52 106 eP     18 23.00 -10.2X
MEKA   37.87 232 iP     18 35.40  -0.6
        0.5s     45.00nm        5.5mb
COOL   38.23 224 eP     18 38.00  -0.9
CNZ    40.55 150 P      18 59.30   1.3
NGZ    40.56 150 eP     18 59.00   0.9
WHH    40.78 149 P      19 00.40   0.5
HBZ    40.79 146 P      19 00.90   1.1
KLB    41.01 226 eP     19 00.00  -1.8
MRWA   41.09 230 iPd    19 02.70   0.2
        0.4s     19.00nm        5.1mb
PUZ    41.11 147 P      19 02.40  -0.1
BAL    41.25 228 eP     19 03.00  -0.8
NOZ    41.39 148 P      19 04.90   0.2
THZ    41.41 155 P      19 04.70  -0.3
TTH    41.45 150 eP     19 05.80   0.6
TCW    41.55 154 P      19 06.10   0.1
KIW    41.56 153 P      19 06.30   0.2
MNG    41.63 152 P      19 06.30  -0.4
MRW    41.76 153 eP     19 07.20  -0.5
CAW    41.82 153 eP     19 07.80  -0.5
WEL    41.83 153 P      19 07.00  -1.3
        1.0s    118.40nm        5.5mb
WDW    41.92 153 eP     19 08.30  -0.7
PGZ    42.00 151 eP     19 09.00  -0.7
LTZ    42.01 157 P      19 10.10   0.3
MTW    42.06 152 P      19 09.50  -0.8
NWAO   42.12 224 eP     19 09.00  -1.9
BLW    42.22 153 eP     19 10.70  -0.8
KHZ    42.22 155 P      19 10.40  -1.1
MUN    42.33 226 eP     19 12.00  -0.6
        0.7s    100.00nm        5.6mb
MMCZ   42.82 161 eP     19 16.10  -0.4
MQZ    42.94 157 eP     19 16.60  -0.7
MAT    43.08 345 iPd    19 17.10  -1.4
        0.8s     89.55nm        5.5mb
             eS     25 37.00
QZH    43.49 315 Pd     19 23.50   1.5
        0.6s    210.00nm        6.0mb
             pP     19 59.00 160kmX
             S      25 40.00
SSE    45.94 323 Pd     19 42.00   0.7
        5.0s    700.00nm        5.6mb X
     Z  20s      1.40um        4.9Msz
     N  10s      1.10um
     E  11s      1.10um
             pP     20 14.00 141km
             sP     20 30.00
             S      26 14.00
```

17d 20h

			sS	27	11.00			ADK		62.93	22	eP	21	42.70	-1.6		SBB	93.61	56	eP	24	33.00	0.4
			ScS	29	21.00					0.6s	153.00nm			6.1mb			CLC	93.87	55	eP	24	34.00	0.2
			SS	29	36.00			GTA		64.73	318	iPd	21	56.60	0.2		RVR	93.94	56	eP	24	35.00	0.9
GZH	46.33	309	iPc	19	47.20	2.6				8.0s	390.00nm			5.4mb	X		PEC	94.11	56	P	24	35.30	0.4
			eS	26	15.00				Z	22s	0.70um			4.8Msz			PLM	94.33	57	eP	24	36.00	-0.1
NJ2	48.02	322	Pc	19	58.20	0.6			E	10s	0.40um									e	25	20.00	175kmX
	1.0s	100.00nm			5.5mb						PcP		22	32.00						e	28	24.00	
WHN	49.91	317	Pd	20	15.50	3.3X					PP		24	19.00			BAR	94.46	58	eP	24	38.00	1.5
	1.0s	40.00nm			5.1mb						S		30	26.00			GSC	94.48	55	eP	24	37.00	0.4
			ipP	20	50.00	151km					ScS		31	38.00			MBC	94.69	14	eP	24	36.00	-0.7
			S	27	14.00						SS		34	36.00				0.7s	19.00nm			5.5mb	
			sS	28	12.00			LSA		67.05	305	Pd	22	11.90	0.1		NEW	94.81	42	P	24	37.30	-0.5
IPM	51.02	280	ePc	20	22.40	1.5			E	14s	1.10um							0.8s	19.79nm			5.5mb	
			e	20	55.30	143km					PP		22	48.50			GLA	96.02	57	eP	24	46.00	2.3
DL2	51.55	331	Pd	20	25.00	0.5		GUN		70.87	302	P	22	35.32	0.1		YKA	96.35	28	eP	24	43.20	-1.2
	6.0s	500.00nm			5.5mb	X				0.7s	77.00nm			5.6mb				0.5s	5.70nm			5.3mb	
			eS	27	34.00			PKI		71.17	301	P	22	36.68	-0.3		EDM	97.24	37	eP	24	48.50	-0.2
SNY	52.98	334	iPd	20	34.00	-1.0				1.0s	33.00nm			5.1mb			MSU	98.27	52	P	24	54.70	0.8
	6.0s	800.00nm			5.7mb	X		KKN		71.34	301	P	22	37.82	0.0		SES	98.78	40	ePd	24	55.40	-0.3
			eS	27	45.00					0.9s	59.00nm			5.4mb				0.7s	39.00nm			6.1mb	
MDJ	53.07	341	Pd	20	35.70	0.1		DMN		71.44	301	P	22	38.66	0.2					pP	25	12.00	58kmX
PCT	53.09	292	eP	20	37.20	1.0				0.7s	45.00nm			5.4mb			BW06	100.16	48	Pdiff	25	02.00	-0.5
			e	21	08.00	131kmX		GKN		71.95	301	P	22	41.20	-0.2		ALQ	102.96	55	ePdiff	25	16.50	1.4
GYA	53.26	308	iPc	20	38.60	1.1				0.7s	46.00nm			5.3mb			ANMO	102.96	55	Pdiff	25	16.40	1.4
LOE	53.68	296	iPc	20	41.00	0.4		SDN		72.09	27	eP	22	39.60	-1.8			0.7s	19.69nm			6.0mb	
CN2	53.85	337	eP	20	42.00	0.6		VNDA		72.69	178	iPc	22	44.20	-0.3		GOL	103.51	51	Pdiff	25	17.30	-0.2
	5.0s	400.00nm			5.5mb	X		WMQ		74.82	318	Pd	22	57.40	-0.2		RSSD	104.06	46	Pdiff	25	18.40	-1.3
			pP	21	15.00	142km				1.0s	30.00nm			5.0mb			NUR	111.65	335	ePKP	29	49.00	-0.9
			sP	21	30.00				Z	12s	0.50um			5.0MszX			FRB	114.72	18	ePKP	29	55.00	-0.7
			S	28	04.00						PcP		23	13.20			APO	115.92	338	ePKP	29	57.00	-1.2
NST	54.57	293	iPc	20	51.80	4.7X		HYB		75.06	289	eP	22	58.40	-1.0			0.6s	5.20nm				
BJI	55.19	328	eP	20	51.00	-0.2		GBA		75.49	285	Pc	23	01.10	-0.7		NB2	116.55	340	PKP	29	57.70	-1.7
	4.0s	470.00nm			5.7mb	X				0.8s	13.60nm			4.7mb				0.8s	6.00nm				
			eS	28	23.00			SVW		77.63	23	eP	23	13.20	0.3		KRI	118.35	248	iPKPd	30	05.00	0.7
XAN	55.68	317	P	20	53.50	-1.4		NDI		78.46	300	iPd	23	17.20	-0.9					ipP	30	42.00	
TIY	55.72	323	Pc	20	56.20	1.0		TTA		78.54	22	iPd	23	17.70	-0.2		VAY	121.70	316	ePKP	30	07.00	-2.7
			pP	21	30.00	145km				0.6s	40.02nm			5.3mb			ZST	121.89	326	ePKP	30	09.50	-0.4
			sP	21	48.50						e		23	56.70	158kmX					e	31	46.60	
			S	28	34.00			POO		79.66	290	eP	23	40.00	15.3X		SKO	122.20	317	iPKP	30	09.80	-0.9
			sS	29	31.00			PMR		80.53	25	eP	23	27.50	-0.9		PRU	122.27	328	PKP	30	10.00	-0.5
KMI	55.79	305	Pd	20	56.50	0.4				0.5s	36.70nm			5.4mb						e	32	08.00	
	2.0s	100.00nm			5.4mb						e		24	11.10	177kmX					e	32	29.00	
	Z 14s	7.80um			5.9MszX			IMA		81.18	20	ePd	23	31.50	-0.5		GAC	122.73	37	ePKP	30	10.00	-1.5
	E 12s	3.80um								0.6s	15.90nm			4.9mb				0.6s	7.00nm				
			pP	21	31.50	150km		KLU		81.84	26	P	23	34.50	-0.9		OHR	123.00	317	ePKP	30	08.00	-4.3X
			PcP	21	48.00			TOA		82.01	25	eP	23	36.40	0.1		KHC	123.28	328	iPKPc	30	12.60	0.0
BDT	56.09	295	eP	21	00.00	2.0		FBA		82.67	22	ePd	23	38.10	-1.4					e	30	53.80	
CHG	56.64	296	iPc	21	03.00	1.0		BRW		83.36	15	eP	23	42.40	-0.5		MOX	123.35	330	e(PKP)	30	12.00	-0.6
	1.1s	39.24nm			5.3mb			MAW		84.77	203	iPc	23	50.60	0.5					e	32	33.00	
			eS	29	28.00			SPA		85.03	180	iPd	23	51.90	0.3		WET	123.64	328	iPKPc	30	12.90	-0.4
CD2	57.67	311	eP	21	09.00	0.0				1.0s	75.00nm			5.5mb			VBY	124.41	324	iPKPc	30	14.70	-0.2
	0.6s	100.00nm			5.9mb						i		24	26.80	137km		WTS	124.67	334	ePKP	30	15.00	-0.1
			eS	28	48.60			SIT		85.28	32	e(P)	23	52.20	-0.5			0.5s	8.00nm				
HHC	58.30	325	P	21	13.40	0.1		QUE		87.53	300	eP	24	03.70	-0.9		EKA	125.75	342	PKPd	30	18.00	0.8
	1.0s	50.00nm			5.4mb						e		24	45.30	157kmX			2.6s	260.00nm				
			pP	21	48.00	147km					eSKS		35	09.00			ABH	125.81	332	ePKP	30	17.20	-0.3
			PcP	21	58.00						eS		35	46.00			ENN	125.94	333	ePKP	30	17.00	-0.7
			sP	22	02.50			INK		89.21	21	ePd	24	10.70	-0.8			1.0s	28.00nm				
			S	29	05.50			FHC		89.31	49	eP	24	13.20	0.6		OGA	126.02	327	iPKPc	30	17.90	-0.4
AFR	58.99	107	iP	21	19.60	1.3		BRK		90.30	52	e(P)	24	17.00	-0.2		CDF	126.95	331	ePKP	30	18.90	-0.9
	1.2s	180.00nm			5.9mb			BKS		90.32	52	eP	24	17.10	-0.2			0.9s	6.55nm				
BTO	59.02	324	P	21	19.00	0.7				0.7s	61.00nm			5.8mb			BSF	127.58	330	ePKP	30	20.20	-0.9
			pP	21	53.00	143km		WDC		90.38	49	ePd	24	17.70	0.2			0.9s	19.65nm				
			sP	22	09.50			GCC		90.43	53	ePd	24	15.80	-2.0		HAU	127.68	331	ePKP	30	20.40	-0.7
			S	29	12.00			BMW		90.54	44	P	24	18.00	-0.2			0.9s	22.95nm				
			sS	30	09.00			PGC		90.64	41	eP	24	19.00	0.5		LPL	129.17	328	ePKP	30	24.20	-0.1
PPT	59.18	107	iP	21	20.90	1.2		MHC		90.74	53	e(P)	24	20.20	0.8			0.7s	4.40nm				
	1.2s	160.00nm			5.9mb			ARN		90.83	53	P	24	20.00	0.3		LPG	129.17	328	ePKP	30	24.20	-0.2
PAE	59.18	107	iP	21	20.90	1.3		PRS		90.86	54	e(P)	24	19.60	-0.2			0.8s	8.05nm				
	1.2s	115.00nm			5.7mb			LBFM		90.95	49	P	24	20.20	-0.2		LOR	129.39	332	ePKP	30	24.00	-0.4
PPN	59.31	107	iP	21	21.80	1.3		GMW		90.96	43	P	24	20.00	-0.1			0.9s	11.45nm				
	1.2s	140.00nm			5.8mb			MIN		91.06	50	eP	24	20.20	-0.7		LBF	129.54	331	ePKP	30	24.40	-0.3
TVO	59.51	108	iP	21	23.40	1.5		ORV		91.07	51	eP	24	20.30	-0.4			0.9s	8.20nm				
	1.2s	190.00nm			5.9mb			LLA		91.23	54	eP	24	22.50	1.0		SSF	129.71	332	ePKP	30	24.80	-0.2
LZH	60.28	317	iPd	21	27.50	0.5		PRI		91.41	54	eP	24	23.40	0.9			0.9s	14.75nm				
	5.0s	510.00nm			5.7mb	X		LON		91.54	43	P	24	22.00	-0.8		PGF	129.80	324	ePKP	30	24.90	-0.6
	Z 20s	1.82um			5.2Msz			RMW		91.61	43	P	24	23.00	-0.2			0.8s	16.10nm				
	N 10s	0.57um						CMB		91.80	52	iPd	24	24.20	0.0		SMF	129.85	331	ePKP	30	25.00	-0.3
PMO	60.63	104	iP	21	30.00	0.5		BCH		91.80	55	P	24	25.20	0.9			0.9s	13.10nm				
	1.2s	270.00nm			6.1mb			SYP		91.83	56	eP	24	25.00	0.5		AVF	129.98	332	ePKP	30	25.00	-0.5
SMY	60.70	16	P	21	28.50	-0.9		FRI		92.25	53	ePd	24	26.20	0.0			0.9s	4.90nm				
TPT	60.89	104	iP	21	31.60	0.3		ABL		92.48	55	P	24	28.00	0.4		FLN	130.19	336	ePKP	30	24.60	-1.2
	1.2s	185.00nm			5.9mb			ISA		93.14	55	eP	24	31.00	0.5		BGF	130.39	332	ePKP	30	26.40	0.1
VAH	60.89	105	iP	21	31.50	0.2		PNT		93.22	41	iP	24	31.00	0.6			0.8s	12.10nm				
	1.2s	125.00nm			5.7mb					0.8s	32.00nm			5.6mb			GRR	130.64	336	ePKP	30	26.80	0.1
RUV	61.13	105	iP	21	33.20	0.3		PAS		93.29	56	eP	24	32.00	0.9			0.8s	10.75nm				
	1.2s	150.00nm			5.8mb			MWC		93.39	56	eP	24	33.00	1.2		LMR	130.73	326	ePKP	30	26.70	-0.3

	0.9s	19.95nm				
LRG	130.73	326	ePKP	30	27.10	0.1
	0.8s	18.80nm				
	Z 20s	0.28um				5.0Msz
MAF	130.77	332	ePKP	30	27.10	0.0
	0.8s	4.05nm				
TCF	130.89	332	ePKP	30	27.40	0.1
	0.8s	10.75nm				
LPF	130.99	336	ePKP	30	27.70	0.3
	0.8s	21.50nm				
MFF	131.72	334	ePKP	30	28.80	0.0
	0.8s	10.75nm				
LPO	132.55	331	ePKP	30	30.50	0.0
	0.8s	10.75nm				
BCAO	132.83	271	ePKPd	30	25.00	-6.9X
	0.3s	23.00nm				
			ic	30	32.00	
			id	31	11.10	
			ic	33	45.90	
CNCB	135.62	120	PKP	30	24.00	-13.8X
			i	30	37.10	
			i	33	57.00	
LPB	135.64	120	ePKP	30	27.00	-10.7X
			e	33	57.00	
ZOBO	135.73	119	PKP	30	24.80	-13.2X
	1.0s	18.00nm				
			LR	51	36.00	
SDV	138.31	82	ePKP	30	32.60	-9.9X
TOV	139.09	81	ePKP	30	37.30	-6.4X
CEOS	140.57	82	ePKP	30	37.10	-9.3X
SIV	141.85	124	PKP	30	41.70	-6.9X
OLLA	142.01	80	iPKP	30	43.10	-5.9X
IFR	144.09	325	iPKPc	30	50.00	-2.1
PPD	145.24	141	iPKPd	30	53.50	-0.7
			i	30	57.00	
			e	31	02.70	
AVE	145.51	327	iPKP	30	54.00	-0.3
			i	31	35.00	
			i	31	46.00	
PAG	145.92	69	ePKP	30	52.00	-3.5X
SEG	145.98	68	ePKP	30	52.00	-3.5X
BBL	146.24	69	ePKP	30	55.00	-1.0
TIO	147.21	324	iPKP	30	58.00	0.7
			i	31	38.00	
TRN	147.23	78	ePKP	30	59.67	2.1
SHGH	151.36	273	ePKP	31	08.50	4.5X
LEGH	151.50	273	ePKP	31	09.50	5.3X
KOGH	151.56	274	ePKP	31	10.00	5.6X
KUK	151.69	274	ePKP	31	09.50	5.0X
BAO	152.04	137	ePKPc	31	04.50	-0.6
KIC	156.03	274	PKP	31	09.56	-0.9
	1.0s	13.00nm				
TIC	156.29	275	PKP	31	09.82	-1.0
LIC	156.32	274	PKP	31	09.72	-1.1
PDCR	159.78	150	ePKP	31	15.20	0.4
			e	31	54.00	
			e	32	30.00	
SOB1	161.43	139	ePKP	31	18.80	2.3
			e	31	46.90	
			e	32	03.80	
			e	32	41.40	

S.D. = 0.9 on 214 of 236 obs.

JAN 17, 1991 20h 31m 53.46± 0.74s
24.037 N ± 3.1km 122.600 E ± 3.9km
DEPTH = 21.3 ± 5.0 km
5.4mb (51 obs.) 4.8Msz (1 obs.)
TAIWAN REGION (243)

TWC	0.89	310	iPd	32	11.60	1.5
			eS	32	26.10	
TWD	0.92	273	iPc	32	10.50	-0.1
			eS	32	23.80	
TWF1	1.37	241	ePc	32	16.90	-0.6
			eS	32	33.70	
TWZ	1.41	319	ePd	32	20.30	2.4
			eS	32	41.80	
ANP	1.51	320	iPd	32	13.50	-6.0X
			eS	32	29.50	
TWG	1.85	230	ePd	32	22.80	-1.6
QZH	3.76	285	Pnc	32	51.00	-0.6
	Z 12s	19.00um				
			Sn	33	31.50	
PIP	5.98	198	ePd	33	21.00	-1.9
CVP	6.34	187	ePc	33	27.00	-1.1
SSE	7.14	350	iPc	33	39.50	0.2
	0.5s	310.00nm				6.6mb X
	Z 20s	11.90um				4.1Msz
	N 14s	11.00um				
	E 13s	2.80um				
			pP	33	45.00	
HKC	7.94	259	iP	33	49.40	-1.2
GZH	8.54	266	eP	33	56.80	-2.1
	Z 12s	6.80um				
	N 11s	4.20um				
	E 12s	5.70um				
NJ2	8.64	338	Pd	33	59.00	-1.2
	0.8s	100.00nm				6.1mb
	Z 14s	6.90um				4.9Msz
	E 10s	7.40um				
QCP	9.46	189	eP	34	17.60	6.0X
WHN	9.79	313	eP	34	19.00	3.0X
	Z 16s	5.90um				
	N 11s	5.70um				
	E 11s	4.50um				
			S	36	07.50	
KAGJ	10.23	44	eP	34	29.60	7.4X
PGP	10.59	189	ePc	34	30.00	2.9
KUMJ	11.14	39	eP	34	40.40	5.8X
SHNJ	12.50	35	eP	35	04.50	11.6X
QIZ	12.87	250	eP	34	59.60	1.6
	N 13s	1.90um				
	E 10s	1.00um				
			eS	37	22.00	
TIA	13.02	340	eP	35	03.50	3.6X
	Z 14s	8.70um				
	N 11s	5.60um				
	E 11s	2.90um				
MAP	13.70	174	eP	35	10.00	1.1
GYA	14.62	283	P	35	20.20	-0.9
	Z 14s	3.70um				
	N 10s	2.90um				
	E 10s	3.60um				
			pP	35	28.80	
DL2	14.85	357	eP	35	28.00	4.2X
	4.0s	500.00nm				5.3mb X
	Z 15s	4.60um				
	N 12s	5.10um				
	E 12s	2.20um				
XAN	15.56	313	P	35	33.50	0.3
	N 13s	3.30um				
	E 14s	4.20um				
TIY	16.17	330	eP	35	42.00	0.9
	Z 14s	10.40um				
	N 14s	11.40um				
BJI	16.85	343	eP	35	50.00	0.4
	5.0s	1850.00nm				5.5mb X
	Z 14s	7.03um				4.5Msz
	N 12s	8.96um				
SNY	17.76	2	eP	36	01.70	0.7
	1.0s	40.00nm				4.5mb
	Z 14s	6.00um				4.3Msz
	N 12s	3.00um				
	E 14s	1.70um				
			S	39	23.00	
CD2	18.06	296	eP	36	04.60	-0.2
			eS	39	20.20	
KMI	18.10	278	Pc	36	08.00	2.5
MAT	18.33	44	(P)	36	09.00	1.0
HHC	19.15	334	Pc	36	19.20	1.1
	1.2s	120.00nm				5.0mb
	Z 15s	10.00um				3.3MszX
	N 13s	3.90um				
	E 14s	3.20um				
BTO	19.60	330	P	36	24.00	0.6
	N 13s	7.80um				
	E 13s	5.50um				
			esP	36	31.00	
CN2	19.85	6	eP	36	25.00	-0.9
	Z 14s	16.60um				
	N 14s	5.00um				
	E 14s	2.00um				
			epP	36	35.00	42kmX
			eS	40	05.00	
LZH	20.15	311	iPc	36	30.50	1.2
	4.0s	750.00nm				5.4mb X
	Z 17s	6.81um				5.1MszX
	N 12s	2.82um				
	E 12s	2.54um				
			pP	36	38.00	28kmX
			sP	36	41.50	
			eS	40	06.00	
LOE	20.59	255	eP	36	33.50	-0.3
MDJ	21.31	14	eP	36	40.30	-0.7
	Z 20s	4.20um				4.8Msz
	N 13s	3.50um				
	E 13s	3.70um				
PCT	22.03	249	eP	36	49.10	0.8
CHG	22.61	261	iPc	36	55.20	1.0
	1.0s	22.00nm				4.6mb
GTA	24.61	314	iPc	37	13.60	0.0
	4.0s	670.00nm				5.6mb X
	Z 16s	4.70um				5.1MszX
	E 14s	4.20um				
			pP	37	20.20	23kmX
			sP	37	25.60	
			eS	41	29.00	
			sS	41	42.00	
			eSS	42	23.00	
LSA	28.56	288	Pc	37	50.90	0.3
GUN	33.16	285	Pc	38	30.74	-0.3
	0.9s	62.00nm				5.6mb
PKI	33.59	284	P	38	33.98	-0.8
	1.2s	49.00nm				5.3mb
KKN	33.69	284	P	38	34.82	-0.7
	1.1s	66.00nm				5.5mb
DMN	33.85	284	P	38	36.36	-0.7
	1.2s	90.00nm				5.6mb
GKN	34.25	285	P	38	39.60	-0.7
	1.0s	97.00nm				5.7mb
WMO	34.69	313	iPd	38	44.20	0.3
	1.0s	40.00nm				5.3mb
	Z 14s	1.70um				4.9MszX
	N 11s	1.20um				
	E 11s	1.40um				
			PcP	41	21.00	
			eS	44	07.60	
			SS	46	22.50	
			ScS	49	02.50	
NDI	40.74	287	iPc	39	34.00	-0.6
PMG	40.99	141	eP	39	35.00	-1.7
HYB	41.59	269	eP	39	42.20	0.5
KSH	42.05	303	eP	39	47.00	1.6
GBA	43.82	265	Pd	40	00.00	0.1
	1.0s	15.90nm				4.8mb
KOD	45.06	260	eP	40	11.30	1.0
POO	45.58	273	iPc	40	12.50	-1.6
QIS	47.32	158	iPd	40	27.70	0.1
			i	40	38.60	
ASPA	48.67	166	iPd	40	38.00	-0.2
	1.2s	62.30nm				5.5mb
			i	40	50.10	
			iPcS	46	02.00	
			iS	47	14.60	
SVO	49.08	128	eP	40	50.00	8.6X
QUE	49.51	290	iPc	40	44.60	-0.3
	1.0s	28.00nm				5.2mb
WARB	50.08	175	eP	40	49.00	0.1
			e	50	01.00	
MAIO	55.05	298	iPc	41	26.80	0.6
	0.8s	15.01nm				5.1mb
RMO	56.23	152	iPc	41	34.70	0.1
ADE	60.64	165	e(P)	42	05.60	0.4
	0.9s	84.03nm				5.9mb
COO	61.14	151	eP	42	10.00	1.3
			i	42	23.90	
DZM	62.59	134	iPc	42	29.20	10.6X
TTA	64.99	30	eP	42	33.90	0.0
TAB	65.17	302	eP	42	36.00	0.5
IMA	65.76	26	e(P)	42	38.70	-0.1
FBA	68.35	27	eP	42	55.20	0.2
KEV	69.59	338	iP	43	01.80	-0.8
	0.8s	17.60nm				5.2mb
SOD	70.33	336	iP	43	06.00	-1.1
KMSA	71.52	285	eP	43	14.90	-0.3
UOSK	71.64	291	ePc	43	17.30	1.4
KAF	71.92	331	iP	43	15.40	-1.4
INK	72.88	22	eP	43	21.50	-0.8
MBC	73.12	13	eP	43	22.50	-1.2
	1.0s	9.00nm				4.8mb
NUR	73.18	329	iP	43	23.10	-1.1
	0.9s	23.70nm				5.2mb
HRI	74.75	300	eP	43	34.00	0.0
BBTK	74.90	307	iPc	43	35.00	0.2
DSI	75.59	298	eP	43	39.00	0.3
MBH	76.60	297	eP	43	45.00	0.4
UPP	76.68	330	iPc	43	42.90	-1.3
DAG	76.72	352	iPc	43	42.80	-1.5
	1.1s	10.13nm				4.8mb
BADA	76.93	296	ePc	43	47.30	1.0
VRI	77.03	315	ePd	43	46.00	-0.6

17d 20h

MLR	77.68	314	eP	43 54.00		3.7X
HFS	78.32	331	eP	43 52.20	-1.1	
	0.9s		17.20nm		5.1mb	
	Z 16s		3.33um		5.8MszX	
			LR	20 51.00		
NB2	78.96	333	P	43 55.50	-1.4	
	0.9s		19.00nm		5.1mb	
SPC	79.79	319	eP	44 00.80	-1.0	
KSP	81.35	322	ePc	44 09.50	-0.3	
	1.0s		25.00nm		5.2mb	
VAY	81.58	311	eP	44 11.30	0.2	
SKO	82.07	312	iP	44 13.50	-0.2	
ZST	82.09	319	eP	44 13.60	-0.1	
YKA	82.60	23	eP	44 14.90	-1.1	
	1.1s		16.20nm		5.0mb	
PRU	82.74	322	eP	44 16.50	-0.5	
	1.0s		14.50nm		5.0mb	
			e	44 26.00		
KHC	83.70	321	iP	44 22.50	0.4	
	1.0s		9.00nm		4.9mb	
PTJ	83.85	318	eP	44 21.90	-1.0	
MOX	84.04	323	eP	44 23.00	-0.7	
	1.3s		22.00nm		5.2mb	
WET	84.09	322	eP	44 24.00	0.0	
VBY	84.48	318	e(P)	44 26.50	0.6	
LJU	84.66	318	e(P)	44 26.00	-0.9	
GRF	84.75	323	ePc	44 27.50	0.2	
	1.5s		59.00nm		5.6mb	
			e	44 41.90		
CEY	84.87	318	e(P)	44 27.00	-1.0	
VOY	85.05	319	eP	44 28.40	-0.5	
FUR	85.51	321	iPd	44 31.90	0.8	
	1.0s		49.00nm		5.7mb	
WTS	85.85	326	eP	44 33.00	0.4	
	1.0s		11.00nm		5.0mb	
SOTA	86.04	320	iPd	44 33.60	-0.3	
	1.0s		24.60nm		5.4mb	
			i	44 43.30		
			i	44 48.10		
OGA	86.33	320	iPd	44 35.60	0.1	
	1.0s		28.00nm		5.4mb	
ABH	86.65	324	eP	44 37.45	0.7	
NAI	86.67	267	iP	44 40.00	2.3	
ENN	87.01	325	eP	44 38.50	0.1	
	1.0s		20.00nm		5.3mb	
CDF	87.62	323	eP	44 41.40	-0.1	
	1.1s		34.20nm		5.6mb	
FIR	87.81	318	eP	44 43.00	0.6	
BSF	88.22	323	eP	44 43.80	-0.6	
	1.3s		21.65nm		5.3mb	
HAU	88.37	323	eP	44 44.50	-0.5	
	1.2s		17.85nm		5.3mb	
PNT	88.43	35	eP	44 46.00	0.7	
EDM	89.10	30	eP	44 49.00	0.6	
LPG	89.57	321	eP	44 51.10	-0.1	
	0.8s		20.15nm		5.4mb	
LPL	89.57	321	eP	44 51.00	-0.1	
	1.0s		34.00nm		5.6mb	
PGF	89.86	317	eP	44 52.10	-0.2	
	1.3s		72.20nm		5.8mb	
SBF	90.09	319	eP	44 52.50	-0.8	
	1.2s		56.55nm		5.7mb	
LOR	90.16	323	eP	44 52.80	-0.7	
	0.8s		10.75nm		5.1mb	
LBF	90.27	323	eP	44 53.20	-0.8	
	1.1s		36.65nm		5.5mb	
SSF	90.48	323	eP	44 54.40	-0.6	
	1.1s		20.75nm		5.3mb	
SMF	90.54	323	eP	44 54.90	-0.4	
	1.0s		49.00nm		5.7mb	
AVF	90.73	323	eP	44 55.70	-0.4	
	1.1s		41.50nm		5.6mb	
PLDF	91.07	322	P	44 58.20	0.4	
MAF	91.50	323	eP	44 59.80	0.1	
	1.0s		27.00nm		5.6mb	
PYM	91.55	322	P	45 00.31	0.3	
TCF	91.66	323	eP	45 00.10	-0.3	
	1.2s		23.80nm		5.5mb	
LBL	91.72	322	P	45 01.33	0.7	
WDC	91.74	44	eP	45 01.80	0.9	
SES	92.05	31	eP	45 02.00	-0.2	
FRB	92.07	5	eP	45 01.00	-0.9	
CAF	92.58	322	eP	45 05.00	0.3	
	1.1s		90.35nm		6.1mb	
RJF	92.65	323	eP	45 05.60	0.6	
	1.1s		58.60nm		5.9mb	
FFC	92.74	24	eP	45 05.00	-0.2	
	1.0s		55.00nm		5.9mb	
LPO	93.22	322	eP	45 07.80	0.2	
	1.4s		47.90nm		5.7mb	
LFF	93.30	323	eP	45 08.70	0.7	
	1.5s		73.10nm		5.9mb	
LRM	94.40	35	eP	45 14.20	0.8	
CMB	94.56	45	e(P)	45 12.70	-1.3	
TOV	144.27	21	ePKP	51 29.30	-1.1	
SDV	144.82	23	iPKPd	51 30.40	-1.1	
OLLA	144.93	16	iPKPc	51 30.70	-0.9	
CEOS	145.44	19	iPKPc	51 31.90	-0.5	
HOBC	146.39	35	ePKP	51 33.76	-0.4	
CLMC	146.56	36	ePKP	51 35.83	1.4	
ANCC	146.70	37	ePKP	51 35.41	0.9	
HOQC	146.86	37	ePKP	51 35.42	0.4	
SALC	147.24	38	ePKP	51 35.53	0.0	
DIAC	147.25	36	ePKP	51 35.67	0.1	
SILC	147.67	37	ePKP	51 37.24	0.7	
CUMC	148.18	42	ePKP	51 38.53	1.1	
SOB1	158.41	310	(PKP)	52 01.00	9.9X	
			e	52 27.30		
ZOBO	167.31	54	PKP	52 02.00	1.9	
	1.1s		8.70nm			
LPB	167.50	55	(PKP)	51 50.00	-10.1X	
CNCB	167.75	56	PKPc	52 02.70	2.3	
SIV	171.28	24	PKP	52 03.10	1.4	
	S.D. = 0.9		on 144 of 157 obs.			

JAN 17, 1991 23h 05m 28.00± 0.56s
15.723 N ± 7.0km 122.741 E ± 9.3km
DEPTH = 33.0km (normal)
4.4mb (8 obs.)
PHILIPPINE ISLANDS REGION (248)

CVP	2.16	336	eP	06 03.00	0.7	
			eS	06 25.00		
BAG	2.19	289	eP	06 04.20	1.3	
			eS	07 29.00		
PGP	2.81	218	eP	06 13.00	1.5	
			eS	06 44.00		
SZP	2.85	310	ePc	06 13.00	0.9	
			iS	06 35.00		
PIP	3.29	322	iP	06 13.50	-4.9X	
XAN	22.09	328	P	10 22.00	0.0	
CD2	23.02	314	eP	10 31.10	-0.2	
TIY	23.73	339	eP	10 39.80	1.7	
	Z 20s		0.40um		3.9Msz	
BJI	24.90	348	eP	10 49.00	-0.3	
	1.1s		10.00nm		4.3mb	
HHC	26.85	341	eP	11 08.00	0.4	
GUN	36.17	296	Pd	12 29.20	-0.7	
	0.9s		25.00nm		5.2mb	
PKI	36.51	295	P	12 31.36	-1.4	
KKN	36.66	296	P	12 32.84	-1.1	
	0.9s		7.00nm		4.6mb	
DMN	36.78	295	P	12 33.88	-1.1	
GKN	37.26	296	P	12 37.70	-1.2	
OIS	39.68	155	iPc	12 58.90	0.0	
ASPA	40.64	164	eP	13 06.90	0.1	
	0.7s		4.70nm		4.3mb	
GBA	43.82	273	Pd	13 32.60	-0.3	
	0.6s		2.60nm		4.2mb	
MBC	81.16	12	eP	17 42.00	0.7	
HFS	85.65	332	eP	18 03.50	-0.9	
	0.5s		1.10nm		4.3mb	
NB2	86.37	333	P	18 07.60	-0.5	
	0.8s		2.50nm		4.5mb	
YKA	90.16	23	eP	18 26.40	0.3	
	0.8s		0.80nm		4.0mb	
	S.D. = 1.0		on 21 of 22 obs.			

JAN 17, 1991 23h 19m 29.00± 0.51s
41.160 N ± 4.6km 22.380 E ± 4.1km
DEPTH = 5.0km (geophysicist)
YUGOSLAVIA (383)
MD 2.4 (THE). ML 1.8 (SKO).

GRG	0.20	175	ePc	19 32.72	-0.5	
			eS	19 37.04		
VAY	0.22	42	iPg	19 31.20	-2.2	
			iSg	19 33.60		
KNT	0.39	90	ePd	19 35.36	-1.5	
			eS	19 40.24		
THE	0.69	140	ePc	19 40.68	-2.1	
			eS	19 50.08		
SOH	0.81	114	ePc	19 42.80	-2.4	
			iS	19 54.88		
FNA	0.85	244	iPd	19 44.06	-1.8	
			iS	19 56.74		
SRS	0.92	92	iPd	19 44.89	-2.1	
			eS	19 56.08		
LIT	1.06	175	iPc	19 48.68	-0.8	
			eS	20 02.52		
SKO	1.08	319	iPg	19 48.50	-1.2	
MMB	1.10	67	iPgc	19 48.00	-2.2	
			eSg	20 02.00		
OHR	1.20	268	ePn	19 49.50	-2.3	
VTS	1.56	23	eP	19 57.00	-0.6	
			iSg	20 18.00		
RZN	1.83	73	eP	20 01.00	-0.6	
			eS	20 26.00		
KDZ	2.34	77	eP	20 09.00	0.3	
			eS	20 40.00		
	S.D. = 0.9		on 14 of 14 obs.			

JAN 17, 1991 23h 46m 13.85± 0.73s
46.295 N ±12.7km 13.209 E ± 8.6km
DEPTH = 10.0km (geophysicist)
AUSTRIA (546)
ML 2.5 (VIE). MD 2.5 (LJU), 2.4 (TRI).

FVI	0.42	315	Pd	46 22.20	-0.2	
			eSg	46 28.50		
VOY	0.54	119	iPg	46 24.20	-0.7	
			eSg	46 34.10		
TRI	0.70	146	ePg	46 26.60	-1.1	
			iSg	46 37.70		
LJU	0.95	105	ePg	46 33.60	1.6	
			iSg	46 48.00		
CTI	1.11	258	P	46 35.80	1.0	
			eSg	46 51.80		
SCE	1.27	306	ePg	46 36.00	-1.6	
OGA	1.61	292	eP	46 42.70	0.1	
SOTA	1.66	305	iPgc	46 44.10	0.9	
			iSg	47 06.00		
	S.D. = 1.3		on 8 of 8 obs.			

& JAN 17, 1991 23h 55m 04.87s
61.977 N 148.925 W
DEPTH = 15.1km
SOUTHERN ALASKA (2)
<AEIC>.

GHO	0.21	180	iP	55 09.97	0.1	
			eS	55 13.85		
PLRM	0.40	194	iP	55 12.99	-0.1	
			eS	55 18.87		
PWA	0.56	235	iP	55 15.67	-0.1	
KNK	0.61	158	iP	55 16.37	-0.3	
			eS	55 24.63		
CUT	0.76	305	iP	55 18.21	-1.1	
PMS	0.80	203	eP	55 19.35	-0.5	
			eS	55 30.14		
SUA	1.01	240	eP	55 23.18	-0.4	
			eS	55 37.37		
HUR	1.06	342	eP	55 23.06	-1.3	
			eS	55 37.36		
SKT	1.23	271	eP	55 26.03	-1.2	
			eS	55 42.95		
TOA	1.30	83	eP	55 27.51	-1.0	
GLI	1.41	141	eP	55 28.06	-1.9	
RND	1.44	1	eP	55 28.90	-1.4	
			eS	55 46.96		
VZW	1.46	128	eP	55 30.38	-0.3	
VLZ	1.50	123	eP	55 30.43	-0.8	
KLU	1.51	107	eP	55 29.73	-1.7	
SLKM	1.60	204	eP	55 33.61	0.9	
TRF	1.61	338	eP	55 31.61	-1.3	
CGLM	1.62	247	eP	55 32.64	-0.3	
NCG	1.64	251	eP	55 33.16	-0.2	
TZL	1.65	86	eP	55 32.96	-0.4	
SDG	1.68	69	eP	55 32.71	-1.1	
SPU	1.70	243	eP	55 34.50	0.4	
KNIM	1.73	160	eP	55 34.65	0.1	
MCK	1.76	360	eP	55 34.12	-0.9	
BGL	1.80	248	eP	55 36.19	0.5	
CKL	1.81	246	eP	55 36.42	0.6	
PAX	1.89	57	eP	55 36.19	-0.7	
SEW	1.90	188	eP	55 34.78	-2.1	
RDT	2.19	232	eP	55 41.72	0.4	
DDM	2.30	36	eP	55 42.55	-0.2	
RSO	2.40	232	eP	55 45.58	1.3	
TGL	3.18	110	eP	55 56.84	1.5	

```
BALM     3.29 104 eP     55 55.46  -1.5
        33 obs. associated
-----------------------------------------
?  JAN  18, 1991  01h 14m 36.40± 7.33s
    4.570 N ±50.1km   76.899 W ±39.8km
    DEPTH =  33.0km  (normal)
 COLOMBIA                          (103)
      MD 2.4 (UVC).

CLMC     0.76 154 eP     14 51.98   1.1
                eS     15 03.90
HOBC     0.79 106 eP     14 51.22   0.0
                eS     15 02.60
BUGC     0.93 136 eP     14 53.22   0.0
ANCC     1.05 178 eP     14 55.03   0.2
                eS     15 09.20
HOOC     1.13 166 eP     14 55.50  -0.7
                eS     15 10.10
DIAC     1.45 151 eP     15 00.01  -0.7
SALC     1.60 173 eP     15 02.92   0.0
     S.D. = 0.8  on   7 of   7 abs.
-----------------------------------------
?  JAN  18, 1991  01h 35m 25.16± 1.59s
    2.173 S ±15.5km  134.197 E ±19.8km
    DEPTH =  33.0km  (normal)
    4.9mb (  3 obs.)  5.1Msz (  2 obs.)
 WEST IRIAN REGION                 (196)

AAI      6.18 256 ePc    36 56.00  -0.6
                eS     38 01.10
MTN     11.03 196 eP     38 03.00  -0.8
        0.3s   549.00nm          7.2mb X
                eS     40 11.00
KNA     14.51 201 iPc    38 49.00  -1.2
        0.6s   123.00nm          5.6mb X
OIS     19.02 164 iPc    39 46.00  -1.1
                i      45 03.00
PPR     19.45 308 ePc    39 50.50  -1.6
ASPA    21.37 181 eP     40 11.10  -1.0
        0.7s    23.90nm          4.7mb
      Z  18s     1.80um          4.5Msz
                iS     44 10.50
MBL     23.50 216 iPd    40 34.80   1.7
        0.7s    25.00nm          4.8mb
                eS     44 38.00
WARB    24.95 196 iPd    40 50.00   2.8
IPM     33.82 281 ePd    42 11.80   5.0X
        1.0s    34.60nm          5.2mb
PPI     33.83 272 e(P)   42 08.00   1.1
LPB    151.19 131 (PKP)  55 19.00   7.0X
      Z  22s     1.11um          5.6Msz
                i      56 39.00
                LR     58 20.00
ZOBO   151.33 131 PKP    55 16.00   3.6X
        1.1s    11.60nm
CCH    152.07 135 PKP    55 13.80   0.6
     S.D. = 1.7  on  10 of  13 abs.
-----------------------------------------
   JAN  18, 1991  01h 36m 26.69± 0.16s
   23.692 N ± 3.2km  121.346 E ± 3.0km
   DEPTH =  10.6km  (  4 depth phases)
   5.9mb ( 83 obs.)  5.5Msz (  7 obs.)
 TAIWAN                            (244)
     Mo=3.0*10**17 Nm (PPT).
     FAULT PLANE SOLUTION: P-Waves
      NP1:Strike=200 Dip=77 Slip=   8
      NP2:       108      82       167
      Principal Axes:
       T                Plg=15  Azm= 64
       P                   4        155
     Comment: The focal mechanism is
       poorly controlled and
       corresponds to strike-slip
       faulting with a small reverse
       component. The preferred fault
       plane is not determined.
     CENTROID, MOMENT TENSOR     (HRV)
     Data Used: GDSN
     L.P.B.: 13S, 25C
     Centroid Location:
     Origin Time        01:36:25.9 0.4
     Lat 23.09N 0.08 Lon 120.50E 0.07
     Dep  15.0 FIX Half-duration  2.5
     Moment Tensor;   Scale 10**17 Nm
       Mrr=-2.01 0.10  Mtt= 1.36 0.16
       Mff= 0.64 0.16  Mrt= 2.67 0.38
       Mrf=-1.53 0.32  Mtf=-0.82 0.12
      Principal Axes:
       T  Val=  3.59  Plg=29  Azm= 32
       N        0.11     1       301
       P       -3.70    61       208
      Best Double Couple:Mo=3.6*10**17
       NP1:Strike=125 Dip=16 Slip= -85
       NP2:       300     74       -91

TWD      0.45  31 iPc    36 36.50   0.7
                eS     36 43.80
TWQ      0.74 321 ePc    36 41.20   0.0
                eS     36 51.20
TWK      0.89 242 iPc    36 42.90  -0.9
TWC      1.02  27 ePc    36 47.20   1.3
                eS     37 03.00
ANP      1.50   6 iP     36 48.00  -5.6X
QZH      2.80 297 Pnc    37 11.00  -1.3
                Sn     37 44.00
PIP      5.38 187 iPd    37 48.50  -0.4
CVP      5.97 176 eP     38 01.00   3.8X
SZP      6.17 188 iPd    38 04.00   4.1X
HKC      6.75 260 iP     38 06.40  -1.8
                iS     39 24.00
BAG      7.28 186 eP+    38 16.00   0.2
                eS     39 35.00
MCO      7.35 259 iP     38 15.00  -1.6
GZH      7.38 267 Pn     38 15.00  -1.9
      Z  13s    63.80um
      E  11s    85.30um
SSE      7.38 359 iPd    38 15.00  -1.9
        1.0s   630.00nm          6.7mb
      N  10s    57.60um
      E  10s    68.70um
                pP     38 18.00
NJ2      8.61 346 Pc     38 31.50  -2.7
        0.6s   100.00nm          6.3mb
      Z  11s    24.80um          5.2Msz
                pP     38 35.60
                sP     38 40.30
                S      40 05.60
OCP      9.01 182 eP     38 43.00   3.3X
WHN      9.24 319 Pc     38 42.00  -0.8
      Z  12s    38.50um
      E  10s    95.00um
                pP     38 47.50
PGP     10.14 182 ePc    39 02.00   6.7X
KAGJ    11.29  47 eP     39 09.10  -1.9
QIZ     11.68 249 eP     39 13.00  -3.3X
      N  12s    29.70um
      E  15s    27.50um
                eS     41 26.00
KUMJ    12.14  41 eP     39 23.70   1.1
TIA     13.00 345 eP     39 31.50  -2.5
        7.0s  2400.00nm          6.5mb X
      E  10s    33.60um
                sP     39 47.00
GYA     13.59 285 iPd    39 40.40  -1.6
        1.0s   300.00nm          6.2mb
      Z  14s    42.50um          4.4Msz
      N  10s    44.20um
      E  10s    19.50um
                PP     39 51.00
SHK     14.64  40 eP     40 01.40   5.8X
XAN     14.98 316 P      39 59.50  -0.6
DL2     15.17   1 iPd    40 05.00   2.5X
        8.0s  4900.00nm          5.9mb X
      Z  13s    16.50um          4.0MszX
      E  10s    21.10um
                S      42 56.00
TIY     15.92 333 Pd     40 14.00   1.6
        5.0s  3800.00nm          5.8mb X
      Z  12s    28.80um          4.5Msz
      N  10s    42.30um
                sP     40 25.00
                S      43 13.00
                SS     43 33.00
BJI     16.87 346 ePd    40 25.89   1.5
        1.0s  5500.00nm          6.6mb
      Z  12s    27.10um          4.3Msz
                eS     43 28.00
DAV     17.00 166 eP     40 28.00   1.8
KMI     17.01 279 Pd     40 25.00  -1.4
        2.0s   360.00nm          5.2mb
      Z  10s    50.60um          4.6MszX
                pP     40 29.00
                sP     40 36.50
                S      43 52.00

CD2     17.19 299 eP     40 26.80  -1.8
        4.0s  3400.00nm          5.8mb X
      Z  10s    73.80um          5.5MszX
      E  10s    52.90um
                iS     43 44.00
SNY     18.18   5 iPd    40 42.00   1.3
        8.0s  *******nm          6.2mb X
      Z  16s    19.50um          3.3MszX
      E  16s    41.40um
                iS     44 06.00
KKM     18.23 197 ePc    40 46.00   4.4X
        1.2s   323.40nm          5.4mb
IIDJ    18.56  47 eP     40 48.50   3.0X
HHC     18.98 337 P      40 52.40   1.8
        5.0s  *******nm          6.3mb X
      Z  12s    16.00um          5.1MszX
      N  10s    10.50um
      E  11s    17.80um
BTO     19.36 333 P      40 55.50   0.1
        5.0s  7600.00nm          6.2mb X
      N  11s    28.90um
      E  11s    16.90um
MAJO    19.37  45 ePc    40 54.07  -1.3
MAT     19.37  45 (P)    41 00.00   4.6X
        0.7s     8.22nm          4.1mb X
                eS     44 30.00
LZH     19.53 313 ePd    40 57.87   0.5
        4.5s  2370.00nm          5.8mb X
      Z  10s    53.50um          4.9Msz
CHJJ    19.61  47 eP     40 58.50   0.4
CNZ     20.34   9 Pd     41 04.40  -1.3
        6.0s  2700.00nm          5.8mb X
      Z  13s    50.00um          6.1MszX
      N  11s    10.70um
      E  11s     6.00um
                pP     41 12.00  28kmX
                eS     44 47.00
CHG     21.43 261 ePc    41 18.90   1.8
        0.9s   127.10nm          5.3mb
                eS     45 16.00
CHTO    21.43 261 ePc    41 16.95  -0.1
NST     21.49 252 eP     41 23.00   5.4X
BDT     21.88 257 eP     41 22.30   0.7
        1.2s   158.00nm          5.3mb
MDJ     21.94  16 P      41 22.00   0.0
        6.0s  3900.00nm          6.0mb X
      N  12s    15.00um
      E  12s    39.30um
                PP     41 53.00
                S      45 24.00
GTA     24.04 316 iPd    41 43.70   0.9
        4.5s  3720.00nm          6.3mb X
      Z  15s    23.30um          5.8MszX
      N  11s    16.00um
      E  10s    19.20um
                pP     41 50.00  22kmX
                sP     41 55.00
                S      46 00.00
                sS     46 10.00
                eSS    46 52.00
HIA     25.56 358 ePd    41 56.22  -0.9
                eS     46 34.18
SNG     25.80 234 eP     42 05.10   5.5X
        1.9s   431.58nm          5.8mb
                eS     46 32.10
LSA     27.58 289 P      42 17.60   1.1
      N  14s    12.40um
                PP     43 00.00
                S      46 58.00
GUN     32.14 285 Pc     42 57.34   0.4
        1.1s   582.00nm          6.4mb
PKI     32.56 285 Pc     43 00.42  -0.2
        1.2s   234.00nm          6.0mb
KKN     32.67 285 Pc     43 01.42   0.0
        1.0s   338.00nm          6.2mb
DMN     32.83 285 Pc     43 02.88   0.0
        1.1s   471.00nm          6.3mb
GKN     33.23 285 Pc     43 05.96  -0.3
        1.1s   610.00nm          6.5mb
WMO     34.10 314 ePd    43 13.88   0.3
        5.0s  2200.00nm          6.3mb X
      N  11s    12.60um
      E  11s    17.50um
                PP     44 28.50
                iS     48 43.55
                sS     48 50.00
                ScP    49 33.00
```

18d 01h

				eScS	53	39.50							LR	23	46.00					1.1s	65.10nm		5.8mb						
NDI	39.74	287	eP		44	01.00	-0.2		PVL	78.32	312	iPc	48	30.00	1.4					i	49	03.40	8km						
	1.2s	187.50nm				5.6mb			HLW	78.59	298	eP-	48	30.00	-0.3		VOY	84.54	318	ePc	49	01.40	0.1						
			eS	50	06.00							eS	58	30.00			FVI	84.95	319	P	49	04.92	1.8						
HYB	40.44	269	eP	44	07.50	0.4			DIM	78.61	311	eP	48	29.00	-1.2			1.4s	61.20nm		5.6mb							
	1.2s	107.10nm				5.4mb			NB2	78.73	332	P	48	29.50	-1.0		FUR	85.05	321	iPc	49	05.00	1.2						
			e	44	12.50	17kmX				1.2s	77.80nm				5.6mb			1.2s	154.00nm		6.1mb							
RAB	40.88	129	e(P)	44	08.00	-2.6			KDZ	78.84	311	eP	48	30.00	-1.5		WIT	85.11	326	eP	49	05.50	1.6						
KSH	41.28	303	iPc	44	17.00	3.1X			KRA	79.13	320	ePd	48	32.90	0.0		WTS	85.49	326	iP	49	06.60	0.8						
			eS	50	35.00					1.3s	164.00nm				5.9mb			1.0s	26.00nm		5.4mb							
GBA	42.65	264	Pc	44	25.60	0.4				Z 14s	1.70um				5.5MszX		NAI	85.51	267	eP	49	11.00	4.1X						
	1.3s	37.30nm				5.0mb				E 14s	3.10um							1.8s	90.91nm		5.7mb							
KOD	43.87	260	eP	44	37.00	1.5						i	48	36.40	11km		ORI	85.68	312	P	49	10.00	2.9X						
QUE	48.55	290	eP	45	12.40	0.1						i	48	42.40			OGA	85.86	320	iPc	49	08.30	0.2						
	1.2s	859.38nm				6.7mb			PLD	79.16	311	eP	48	33.00	-0.2			1.2s	105.00nm		5.9mb							
			eS	52	23.00				SPC	79.30	319	ePKP	48	33.80	-0.3		BNS	85.86	325	P	49	08.80	1.1						
SVO	49.79	126	eP	45	24.00	2.3			RZN	79.31	311	eP	48	32.00	-2.3		CTI	85.90	319	P	49	09.50	1.4						
WARB	49.85	174	eP	45	20.00	-2.0			AMAN	79.37	291	eP	48	37.00	2.3		TDS	85.94	312	Pc	49	11.50	3.1X						
HNR	50.07	127	eP	45	25.00	1.1			AKSR	79.40	291	eP	48	38.00	3.2X		ABH	86.25	324	eP	49	10.46	0.8						
MAIO	54.21	299	iPd	45	55.80	1.0			AGAL	79.65	291	eP	48	38.00	1.8		GRI	86.27	311	P	49	13.47	3.4X						
	1.0s	35.50nm				5.4mb			AKRL	79.66	291	eP	48	36.00	-0.2			1.1s	108.70nm		6.0mb							
			eS	53	37.00				BSD	79.75	326	iP	48	36.80	0.7		ARV	86.36	316	Pc	49	13.20	2.8X						
ADK	54.51	42	eP	45	55.70	-1.0				1.3s	185.00nm				5.9mb		OSS	86.47	320	ePc	49	11.60	0.6						
	1.4s	443.60nm				6.3mb			AGMR	79.85	291	eP	48	39.00	1.8		AQU	86.63	315	Pc	49	14.70	3.0X						
RMO	56.49	150	eP	46	10.00	-1.3			BZS	79.87	315	eP	48	39.50	2.5X		ENN	86.63	325	iPc	49	11.90	0.4						
	1.3s	286.00nm				6.1mb			VTS	80.00	312	iPc	48	39.00	1.0			1.0s	69.00nm		5.8mb							
BRS	59.16	147	iPd	46	29.50	-0.6						i	48	49.00	32kmX		SAX	86.64	321	ePc	49	12.50	0.5						
ADE	60.62	164	eP	46	38.20	-1.8			PSZ	80.02	318	e(P)	48	38.00	0.1		SDI	86.67	314	P	49	14.40	2.4X						
	1.3s	157.69nm				6.0mb			MMB	80.03	311	ePc	48	38.00	0.0		ASS	86.75	316	Pc	49	16.20	3.9X						
SHI	60.99	292	eP	46	40.00	-2.9			KKB	80.37	311	P	48	40.00	0.2		SAL	86.80	319	P	49	15.30	2.9X						
COO	61.40	150	eP	46	46.00	0.6			BUD	80.74	318	e(P)	48	41.00	-0.6		SFI	86.84	317	Pc	49	16.40	3.8X						
DZM	63.19	133	iPd	46	58.90	1.4			VAY	80.94	311	iP	48	42.00	-0.8		SLE	86.86	321	ePc	49	12.40	-0.3						
BBU	63.57	289	eP	47	01.00	1.1				1.2s	214.00nm				6.0mb		SOI	86.87	310	P	49	16.20	3.3X						
	0.4s	85.00nm				6.3mb			BEO	80.94	315	eP	48	42.50	-0.2		CRE	86.92	317	Pc	49	16.40	3.2X						
BFD	63.75	161	eP	46	59.00	-1.8			SRO	81.04	318	eP	48	43.40	0.3		VDL	86.97	320	ePc	49	14.00	0.5						
SDN	64.19	38	e(P)	47	02.90	-0.6			SKO	81.45	312	eP	48	45.40	0.0		LLS	87.05	321	ePc	49	14.20	0.3						
TAB	64.38	302	iP-	47	06.00	0.7				1.1s	257.00nm				6.2mb		ZLA	87.07	321	ePc	49	13.70	-0.1						
CNB	64.41	155	eP	47	05.00	-0.3						iPcP	48	49.20			CDF	87.20	322	eP	49	14.80	0.4						
TOO	65.03	159	iPd	47	09.80	0.6						iPP	51	54.00				1.7s	191.15nm		6.1mb							
TTA	65.86	30	iPd	47	14.10	-0.2						iS	59	04.00			GDH	87.25	358	eP	49	06.00	-8.1X						
SVW	66.22	32	eP	47	16.80	0.2						i	02	18.50						e	49	18.00	39kmX						
IMA	66.57	26	eP	47	18.70	-0.2						iSS	08	05.50			FIR	87.28	317	eP	49	16.00	1.2						
	1.1s	86.70nm				5.9mb			ZST	81.60	319	eP	48	46.40	0.3		MME	87.42	318	Pc	49	19.10	3.3X						
RYD	67.32	288	ePd	47	23.50	-0.7			TIH	81.69	318	eP	48	47.00	0.5		PGC	87.70	37	eP	49	18.00	1.4						
SLKM	68.92	32	P	47	31.60	-2.0			MUD	81.94	329	eP	48	47.00	-0.6		BSF	87.79	322	eP	49	17.30	0.0						
RND	69.01	29	P	47	32.50	-1.6				1.0s	26.00nm				5.3mb			1.8s	94.95nm		5.8mb							
FBA	69.18	27	eP	47	34.40	-0.6			OHR	82.25	311	eP	48	45.00	-4.7X		BOB	87.89	319	P	49	22.90	5.1X						
	0.7s	55.23nm				5.8mb			PRU	82.29	321	ePKP	48	50.00	0.4		HAU	87.94	322	eP	49	17.90	0.0						
PMR	69.23	31	eP	47	34.30	-1.1				1.5s	133.90nm				5.8mb			Z 20s	1.67um		5.5Msz							
	2.1s	789.50nm				6.5mb				Z 15s	2.50um				5.7MszX		MMK	88.09	320	ePc	49	19.80	0.8						
KEV	69.49	338	iP	47	37.00	0.2				N 16s	1.50um						EKA	88.21	332	P	49	21.00	2.0						
	1.1s	74.40nm				5.8mb				E 16s	2.60um							1.7s	95.10nm		5.8mb							
SOD	70.17	336	iP	47	40.10	-0.9						e	48	53.00	10km		ORX	88.30	320	P	49	18.11	-1.7						
TOA	70.49	30	eP	47	43.10	-0.1						e	48	59.00			DIX	88.40	320	ePc	49	21.10	0.6						
UQSK	70.68	290	eP	47	46.00	1.0						PP	51	58.50			PCP	88.55	319	P	49	22.11	1.1						
KAF	71.65	330	iP	47	49.40	-0.7			CLL	82.53	323	iPd	48	50.90	0.1		EMS	88.68	321	ePc	49	21.90	0.2						
NUR	72.88	329	iP	47	57.30	-0.1				1.8s	160.00nm				5.9mb		LSD	88.89	320	P	49	23.24	0.4						
	1.0s	84.00nm				5.8mb			KHC	83.25	321	iPKPc	48	55.80	1.1		FIN	88.93	319	P	49	22.01	-0.8						
INK	73.62	22	ePd	48	00.60	-1.0				1.5s	80.00nm				5.7mb		RSP	88.99	320	P	49	21.80	-1.4						
	1.1s	67.00nm				5.6mb				Z 16s	1.80um				5.5MszX		ROB	89.09	319	P	49	22.93	-0.6						
MBC	73.70	13	ePc	48	00.60	-1.4				N 16s	1.10um						LPG	89.10	320	eP	49	24.40	0.5						
	1.4s	53.00nm				5.4mb				E 16s	2.00um							0.9s	36.85nm		5.7mb							
BHL	73.79	300	P	48	02.00	-1.4						e	52	08.50			LPL	89.10	320	iPc	49	24.30	0.5						
			S	57	38.00				PTJ	83.33	317	eP	48	55.00	-0.2			1.2s	71.40nm		5.8mb							
BBTK	74.19	307	iPd	48	05.00	-0.6			ZAG	83.35	317	iPc	48	56.20	1.0		BHB	89.16	319	P	49	21.19	-2.6						
ADI	74.39	300	eP	48	10.00	3.2X			YKA	83.36	23	eP	48	53.20	-1.7		IMI	89.29	318	P	49	25.39	0.9						
ZNT	74.81	299	eP	48	11.00	1.8				1.0s	21.20nm				5.3mb		PGF	89.33	317	iPc	49	25.30	0.5						
AYN	75.10	295	ePc	48	12.00	1.2			KMR	83.44	320	iP-	48	55.70	0.1			1.1s	68.35nm		5.8mb							
RMN	75.70	297	eP	48	14.00	-0.4						i	51	48.00			PNT	89.37	35	ePc	49	25.00	0.3						
PSN	76.21	312	eP	48	18.00	1.1						i	52	16.80				1.4s	93.00nm		5.8mb							
ALT	76.39	307	iP	48	18.10	-0.1			MOX	83.62	323	iPc	48	57.50	1.0		BNI	89.39	320	P	49	26.80	1.7						
UPP	76.40	330	iP	48	16.90	-0.7				1.7s	127.00nm				5.9mb		ENR	89.40	319	P	49	23.55	-1.5						
			i	48	21.10	13km				Z 15s	4.10um				5.9MszX		RRL	89.40	320	P	49	25.19	-0.1						
			iPP	51	09.90					N 14s	3.30um						PZZ	89.44	319	P	49	22.73	-2.6						
VRI	76.45	314	ePd	48	23.50	5.2X				E 14s	2.30um						STV	89.45	319	P	49	23.44	-1.8						
CVO	76.83	314	eP	48	26.50	6.1X						e	52	10.00			SBF	89.59	319	eP	49	25.90	0.0						
DAG	76.89	351	iPd	48	19.80	-0.3			WET	83.65	321	iPc	48	57.60	0.9			1.2s	71.40nm		5.8mb							
	1.2s	32.81nm				5.3mb				1.5s	178.00nm				6.1mb		LOR	89.75	323	iPc	49	26.40	-0.1						
			isP	51	10.00				VBY	83.95	317	iPc	49	00.30	2.1			1.1s	43.95nm		5.6mb							
MLR	77.10	314	ePd	48	26.50	4.5X			LJU	84.15	318	eP	49	00.00	0.8			Z 20s	2.00um		5.5Msz							
ELL	77.32	305	iP	48	23.00	-0.4			GRF	84.32	322	ePd	49	00.40	0.4		LBF	89.85	323	iPc	49	26.90	-0.1						
JMB	77.73	311	eP	48	25.00	-0.4				1.5s	85.00nm				5.8mb			1.3s	110.10nm		5.9mb							
CMP	77.77	314	ePc	48	27.00	1.4				Z 20s	2.00um				5.5Msz		EDM	89.96	29	eP	49	28.00	0.6						
BMR	77.88	317	ePc	48	28.00	1.9						e	49	10.20	31kmX		SSF	90.06	323	iPc	49	28.10	0.1						
HFS	78.07	331	eP	48	25.50	-1.3						e(PP)	52	15.00				1.1s	51.30nm		5.7mb							
	1.0s	50.00nm				5.6mb			CEY	84.35	318	eP	49	00.40	0.1		SMF	90.12	322	iPc	49	28.40	0.1						
	Z 17s	3.49um				5.8MszX			KBA	84.37	319	iPc	49	00.80	0.2			1.3s	140.80nm		6.0mb							

FRF	90.23	319	eP	49	29.10	0.3			23.663 N ±10.8km		121.318 E ±15.3km												
	1.5s	88.80nm			5.8mb				DEPTH = 10.0km (geophysicist)														
AVF	90.31	323	iPc	49	29.30	0.2			TAIWAN													(244)	
	1.4s	148.10nm			6.1mb																		
LMR	90.44	319	eP	49	30.20	0.4		TWD	0.49	31	iPc	39	13.70	-0.4									
	1.4s	113.25nm			6.0mb						eS	39	21.20										
LRG	90.47	319	eP	49	30.40	0.5		TWK	0.86	243	ePc	39	20.70	0.0									
	1.5s	120.15nm			6.0mb						eS	39	33.00										
Z	22s	1.77um			5.5Msz			TWG	0.87	195	eP	39	20.90	0.0									
CDR	90.70	319	ePd	49	34.70	3.7X		TWC	1.06	27	ePc	39	24.50	0.4									
BGF	90.73	323	eP	49	31.10	0.0					eS	39	40.20										
	1.4s	71.90nm			5.8mb			NUR	72.89	329	iP	50	39.70	4.7X									
MAF	91.08	323	iPc	49	33.20	0.5		HFS	78.08	331	eP	51	04.50	0.0									
	1.4s	137.25nm			6.1mb				0.8s		8.00nm			4.9mb									
LDF	91.08	326	eP	49	32.50	-0.1			S.D. = 0.4		on 5 of 6 obs.												
	1.6s	62.20nm			5.7mb			----------															
FLN	91.16	326	eP	49	32.60	-0.4		• JAN 18, 1991 02h 11m 13.99± 0.60s															
Z	18s	4.00um			5.9Msz			51.474 N ±14.8km 178.437 W ± 6.9km															
TCF	91.24	323	eP	49	34.00	0.5		DEPTH = 33.0km (normal)															
	1.5s	127.95nm			6.0mb			4.9mb (9 obs.)															
NEW	91.32	35	P	49	34.00	0.2		ANDREANOF ISLANDS, ALEUTIAN IS. (7)															
	1.5s	109.33nm			6.0mb																		
GRR	91.59	326	eP	49	34.80	-0.2		ADK	1.17	69	iPc	11	36.50	2.5									
	1.6s	74.65nm			5.8mb			TTA	16.60	38	eP	15	06.00	0.5									
LSF	91.64	323	eP	49	35.50	0.2		IMA	19.25	31	eP	15	38.70	0.5									
	1.6s	121.25nm			6.0mb			MBC	33.43	22	eP	17	51.50	0.3									
LPF	91.91	325	eP	49	36.30	-0.2		YKA	35.00	47	eP	18	03.00	-1.8									
	1.2s	32.75nm			5.6mb				0.4s		0.90nm			4.1mb									
CAF	92.14	322	eP	49	38.80	1.2		PNT	36.69	70	iP	18	19.00	-0.3									
	1.5s	318.60nm			6.5mb				0.6s		7.00nm			4.7mb									
RJF	92.22	322	iPc	49	39.20	1.2		NEW	38.64	70	eP	18	36.00	0.3									
	1.3s	209.40nm			6.4mb			BW06	46.06	73	eP	19	36.00	-0.4									
Z	22s	1.23um			5.3Msz			MSU	47.05	79	eP	19	44.50	0.2									
MFF	92.34	324	eP	49	39.10	0.6		TIY	49.31	282	eP	20	04.00	2.4									
	1.8s	112.20nm			6.0mb			GOL	50.43	73	eP	20	10.30	-0.2									
WDC	92.78	43	iPc	49	41.20	0.6		FRB	52.83	32	eP	20	26.00	-1.8									
LPO	92.78	322	eP	49	41.50	0.9		XAN	53.86	281	P	20	35.50	-0.4									
	1.4s	91.50nm			6.0mb			LZH	55.57	286	P	20	48.50	-0.1									
LFF	92.88	322	eP	49	42.30	1.3			1.0s		25.00nm			5.2mb									
	1.5s	146.25nm			6.2mb			GTA	55.74	292	eP	20	49.60	-0.1									
SES	92.93	31	ePc	49	40.80	-0.4			0.5s		10.00nm			5.1mb									
MIN	93.50	43	e(P)	49	44.20	0.1		HFS	68.32	353	eP	22	12.30	-1.1									
FFC	93.52	24	iPc	49	43.20	-0.6			0.5s		1.20nm			4.2mb									
	0.9s	20.00nm			5.5mb			GUN	72.03	292	P	22	37.44	0.6									
ORV	94.02	44	eP	49	46.30	0.0			0.5s		155.00nm			6.2mb X									
MHC	95.19	45	eP	49	52.30	0.3		KKN	72.47	293	P	22	40.02	0.7									
LRM	95.34	35	eP	49	53.60	1.0		GKN	72.68	293	P	22	40.92	0.5									
CMB	95.61	44	iPc	49	54.10	0.3			0.6s		58.00nm			5.7mb									
LLA	96.07	46	e(P)	49	55.20	-0.7		DMN	72.71	293	P	22	41.56	0.8									
PRI	96.52	46	eP	49	59.00	0.9			0.7s		38.00nm			5.5mb									
FRI	96.65	45	eP	49	58.20	-0.2		LDF	80.30	1	eP	23	22.10	-0.5									
ISA	98.24	45	eP	50	06.00	0.3		GRR	80.50	2	eP	23	23.60	0.0									
CLC	98.72	45	eP	50	11.00	3.1X		LPF	80.85	2	eP	23	24.50	-1.0									
BW06	98.93	35	P	50	12.00	3.1X		AVF	82.10	359	eP	23	33.10	1.0									
SBB	99.25	46	eP	50	09.00	-1.3		WRA	82.24	224	P	23	32.00	-1.1									
GSC	99.54	45	eP	50	12.00	0.3			0.7s		0.80nm			3.9mb X									
PV09	102.12	38	Pdiff	50	24.00	0.6		SMF	82.24	358	eP	23	32.10	-0.7									
GLA	102.22	46	ePdiff	50	28.00	4.4X		LSF	82.66	0	eP	23	34.90	-0.1									
ALQ	106.14	39	e(PKP)	54	52.00	-1.2			0.5s		2.90nm			4.6mb									
KIC	119.52	293	PKP	55	18.04	-0.9		GBA	88.05	289	Pd	24	01.60	-0.6									
LIC	119.83	293	PKP	55	18.58	-1.0			0.5s		3.50nm			4.9mb									
Z	21s	0.43um			5.1Msz				S.D. = 1.0		on 28 of 28 obs.												
TOV	144.99	19	ePKP	56	06.00	-0.6		----------															
OLLA	145.56	14	iPKP	56	06.80	-0.9		JAN 18, 1991 02h 56m 19.72± 0.48s															
SDV	145.57	21	iPKPc	56	07.00	-0.8		21.690 S ±13.0km 174.292 W ± 5.3km															
TRN	145.77	5	ePKP	56	07.00	-0.8		DEPTH = 33.0km (normal)															
HOBC	147.32	34	ePKP	56	09.25	-1.4		4.8mb (9 obs.)															
CLMC	147.51	35	ePKP	56	12.16	1.2		TONGA ISLANDS														(173)	
ANCC	147.65	36	ePKP	56	11.80	0.8																	
BUGC	147.66	34	ePKP	56	10.09	-1.0		SVA	7.69	296	eP	58	13.10	0.8									
HOOC	147.82	35	ePKP	56	11.06	-0.5		VUN	7.74	297	ePc	58	13.10	0.1									
DIAC	148.20	35	ePKP	56	10.94	-1.1		AFI	8.10	18	eP	58	16.00	-2.1									
SALC	148.20	36	ePKP	56	11.28	-0.8					eS	59	42.00										
SILC	148.63	36	ePKP	56	12.52	-0.5		SGE	8.39	298	ePd	58	24.40	2.2									
PURC	148.92	36	ePKP	56	15.50	1.8		DZM	17.89	265	iPc	00	26.00	-1.8									
SOB1	157.74	307	ePKP	56	27.30	2.0		AFR	23.45	84	iP	01	27.20	0.1									
			e	56	50.60				0.7s		15.00nm			4.6mb									
ZOBO	168.44	52	ePKPd	56	35.64	-0.3		PAE	23.60	85	iP	01	28.40	-0.2									
	1.0s	37.16nm							0.7s		15.00nm			4.6mb									
			e	57	09.90			PPT	23.63	84	iP	01	29.00	0.1									
			i	57	42.00				0.7s		30.00nm			4.9mb									
CCH	170.59	50	PKP	56	35.80	-1.0		PPN	23.77	84	iP	01	30.20	0.0									
SIV	172.01	17	PKP	56	38.30	1.3			0.7s		15.00nm			4.6mb									
PPD	173.03	282	ePKP	56	37.90	0.6		TVO	23.88	85	iP	01	32.30	0.9									
	S.D. = 1.1		on 238 of 278 obs.						0.7s		25.00nm			4.8mb									
----------								RMO	33.99	254	iPc	02	56.60	-6.1X									
• JAN 18, 1991 01h 39m 04.18± 0.81s								FRI	77.79	42	ePc	08	17.30	2.0									
CMB	78.04	41	ePc	08	17.60	0.8																	
WDC	78.44	38	ePc	08	19.60	0.8																	
CN2	85.37	321	P	08	54.60	-0.3																	
ALQ	85.48	50	e(P)	08	55.00	-0.9																	
ANMO	85.48	50	P	08	57.00	1.1																	
PNT	85.75	32	ePc	09	04.00	7.3X																	
	1.0s	14.00nm			5.1mb																		
TIA	86.64	311	Pd	09	01.00	-0.3																	
FBA	88.70	11	(P)	09	10.00	-0.6																	
			e	09	24.00																		
TIY	90.66	311	eP	09	21.40	0.9																	
SES	90.82	35	eP	09	33.00	12.1X																	
XAN	91.62	306	Pc	09	24.50	-0.4																	
HHC	92.67	313	P	09	29.80	0.1																	
KMI	92.98	296	eP	09	31.00	-0.6																	
BDT	93.28	287	eP	09	32.50	-0.2																	
	1.0s	34.50nm			5.7mb																		
CHG	93.90	289	ePc	09	35.10	-0.5																	
	0.9s	11.55nm			5.3mb																		
INK	94.54	14	eP	09	37.50	0.0																	
YKA	96.17	24	eP	09	44.00	-1.1																	
	0.8s	0.90nm			4.3mb																		
MUD	145.18	357	ePKP	15	54.00	-1.1																	
	1.0s	14.00nm																					
LWI	147.21	226	iPKPc	15	59.90	-0.2																	
WTS	149.74	359	ePKP	16	08.00	5.5X																	
KSP	149.74	347	ePKPc	16	07.00	4.4X																	
			e	16	11.00																		
CLL	149.89	351	iPKPc	16	07.10	4.3X																	
	1.0s	13.00nm																					
SPC	150.22	341	ePKP	16	03.80	0.1																	
BBTK	150.72	314	iPKPd	16	09.50	4.9X																	
MOX	150.73	352	ePKP	16	10.00	5.9X																	
PRU	150.91	348	ePKP	16	10.00	5.6X																	
MLR	151.04	330	ePKP	16	14.00	9.1X																	
GRF	151.72	352	ePKP	16	13.00	7.3X																	
			e	16	21.00																		
KHC	151.91	349	PKP	16	13.00	7.0X																	
ZST	152.02	344	e(PKP)	16	16.20	10.1X																	
SRO	152.03	342	e(PKP)	16	11.80	5.7X																	
			i	16	20.50																		
	S.D. = 1.0		on 29 of 43 obs.																				

% JAN 18, 1991 03h 00m 47.77± 0.72s																							
39.286 N ± 6.6km 29.167 E ± 6.8km																							
DEPTH = 10.0km (geophysicist)																							
TURKEY																						(366)	
MD 3.1 (ISK).																							
DST	0.53	308	iPg	00	56.40	-2.0																	
			eSg	01	03.40																		
ALT	0.77	107	ePg	01	02.30	-0.5																	
			eSg	01	16.30																		
KHL	1.00	164	ePn	01	06.00	-0.8																	
			iSg	19	21.10																		
YLV	1.29	7	ePn	01	11.00	-0.7																	
GPA	1.33	41	ePn	01	13.00	0.6																	
BNT	1.44	318	iPn	01	13.20	-0.7																	
EDC	1.46	317	ePn	01	13.00	-1.1																	
GBZT	1.52	8	ePn	01	16.00	1.1																	
			iSg	01	37.20																		
HRT	1.58	14	iPn	01	15.70	-0.2																	
IZM	1.73	240	ePn	01	19.00	0.9																	
ISK	1.78	357	ePn	01	20.00	1.3																	
EZN	2.26	285	ePn	01	28.00	2.3																	
BBTK	2.83	78	eP	01	42.00	8.0X																	
			iS	02	22.00																		
	S.D. = 1.3		on 12 of 13 obs.																				

? JAN 18, 1991 03h 29m 35.77± 1.86s																							
1.498 S ±16.5km 134.581 E ±23.6km																							
DEPTH = 33.0km (normal)																							
4.6mb (3 obs.) 4.1Msz (1 obs.)																							
WEST IRIAN REGION																						(196)	
AAI	6.74	251	ePc	31	16.50	1.5																	
			eS	32	22.50																		
MTN	11.78	197	eP	32	23.50	-1.1																	
	0.3s	488.00nm			7.2mb X																		
KNA	15.28	202	eP	33	09.50	-1.3																	
	0.3s	30.00nm			5.0mb																		
QIS	19.57	166	eP	34	05.00	0.9																	
ASPA	22.05	182	eP	34	30.50	1.0																	
	0.4s	9.90nm			4.6mb																		
Z	18s	0.60um			4.1Msz																		
			iS	38	30.10																		
M8L	24.26	215	eP	34	55.00	3.9X																	

18d 03h

0.4s 4.00nm 4.3mb

WARB	25.70	197	eP	35	08.50	3.7X
BDT	39.71	300	eP	37	05.00	-2.0
CHG	40.42	302	eP	37	16.00	3.0X
CHTO	40.42	302	P	37	14.00	1.0
BJI	44.64	340	eP	37	54.50	7.5X
GUN	55.12	306	P	39	00.00	-7.9X

S.D. = 1.7 on 7 of 12 obs.

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* JAN 18, 1991 03h 43m 39.37± 1.86s
45.026 N ±15.6km 3.008 E ±12.0km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
MD 2.1 (STR). ML 1.9 (LDG).

LBL	0.27	39	Pg	43	44.00	-1.0
			Sg	43	47.50	
CAF	0.68	262	Pg	43	52.00	-0.8
			Sg	44	02.60	
			Sn	44	04.20	
RJF	1.09	285	Pg	44	00.40	0.5
			Sg	44	15.00	
MAF	1.24	346	Pg	44	01.80	-0.5
			Sg	44	17.40	
LPO	1.34	256	Pg	44	04.40	0.3
			Sg	44	22.80	
TCF	1.38	336	Pg	44	04.40	-0.3
			Sg	44	20.60	
BGF	1.54	356	Pg	44	07.00	0.2
			Sg	44	26.20	
LBF	2.07	19	Pg	44	16.30	1.7
			Sg	44	40.60	

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

? JAN 18, 1991 04h 12m 39.48± 1.64s
48.188 N ±13.3km 7.724 E ±12.1km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.2 (LDG).

FEL	0.37	148	ePg	12	47.10	0.0
CDF	0.37	307	Pg	12	47.10	-0.1
			Sg	12	52.00	
BSF	0.72	241	Pg	12	53.40	-0.3
			Sg	13	03.00	
HAU	0.94	259	Pg	12	57.80	0.4
			Sg	13	09.20	

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

% JAN 18, 1991 05h 12m 07.78± 0.61s
43.077 N ± 6.6km 0.707 W ± 4.8km
DEPTH = 10.0km (geophysicist)
PYRENEES (378)
MD 1.0 (STR).

ATE	0.01	16	Pg	12	09.36	-0.3
			Sg	12	10.29	
ESCF	0.10	89	Pg	12	10.44	-0.1
			Sg	12	12.24	
MADF	0.11	310	Pg	12	10.64	0.0
			Sg	12	12.83	
LHE	0.18	159	Pg	12	11.72	-0.1
OGE	0.19	62	Pg	12	12.13	0.1
			Sg	12	16.43	
BOH	0.22	277	Pg	12	12.72	0.0
			Sg	12	16.29	
JAU	0.25	99	Pg	12	13.26	0.1
			Sg	12	17.43	

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

JAN 18, 1991 05h 53m 25.37± 1.07s
32.229 S ± 6.9km 71.413 W ±10.5km
DEPTH = 33.0km (normal)
NEAR COAST OF CENTRAL CHILE (135)

ROCH	0.81	155	iPc	53	40.50	-0.1
			iS	53	53.30	
IHA	0.82	194	eP	53	41.00	0.6
			iS	53	53.50	
JACH	0.83	123	iPd	53	40.50	-0.2
			iS	53	53.00	
LCCH	1.25	186	iPc	53	46.70	0.1
			iS	54	04.50	
SAN	1.37	153	eP	53	48.50	0.0
			iS	54	07.00	
FCH	1.45	139	iP	53	49.80	0.0
			iS	54	09.30	
TACH	1.48	164	iPc	53	50.20	0.3
			iS	54	10.20	
PCH	1.58	152	eP	53	51.50	0.0
			iS	54	12.90	
LNV	1.72	180	iPd	53	52.50	-0.9
MDZ	2.26	107	e(P)	54	08.50	7.3X
RTCV	2.47	82	ePc	54	04.90	0.7
RTRS	2.65	40	ePc	54	06.50	-0.1
			eS	54	40.60	
RTLL	2.66	71	ePd	54	06.60	-0.3

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

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* JAN 18, 1991 05h 56m 33.09± 0.71s
37.663 N ±13.4km 73.792 E ±19.8km
DEPTH = 33.0km (normal)
4.8mb (11 obs.)
TAJIK SSR (715)

NDI	9.40	161	eP	58	50.00	0.7
GKN	13.25	133	P	59	41.36	-0.2
	0.5s		18.00nm			5.3mb
KKN	13.79	132	P	59	47.96	-0.7
	0.6s		17.00nm			5.1mb
DMN	13.82	133	P	59	48.40	-0.8
	0.5s		15.00nm			5.1mb
PKI	14.03	132	P	59	51.04	-0.9
GUN	14.06	130	P	59	51.48	-0.9
	0.4s		12.00nm			4.9mb
GBA	24.18	171	P	01	49.00	1.6
	0.3s		1.30nm			3.9mb
HFS	43.55	321	eP	04	33.00	-2.1
	0.4s		5.10nm			4.6mb
NB2	44.81	322	P	04	43.20	-2.2
	0.5s		2.10nm			4.3mb
MBC	66.06	3	ePd	07	19.30	1.1
	0.5s		18.00nm			5.4mb
INK	72.38	10	eP	07	58.00	0.8
FBA	72.72	17	(P)	08	00.00	0.7
YKA	79.96	4	eP	08	39.80	-0.1
	0.6s		1.80nm			4.2mb
WRA	80.75	124	P	08	46.00	1.2
	0.7s		0.90nm			3.9mb
FFC	87.91	358	eP	09	22.00	1.7
	0.8s		8.00nm			5.1mb

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

? JAN 18, 1991 06h 43m 34.30± 6.15s
4.985 N ±61.6km 76.393 W ±51.8km
DEPTH = 110.0km (geophysicist)
COLOMBIA (103)
MD 1.9 (UVC).

HOBC	0.68	158	eP	43	52.72	-0.1
			eS	44	04.80	
BUGC	1.09	173	eP	43	57.22	0.3
CLMC	1.11	189	eP	43	57.27	0.1
			eS	44	12.70	
HOQC	1.53	189	eP	44	01.88	-0.2
			eS	44	20.80	
DIAC	1.69	173	eP	44	03.96	-0.1

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

JAN 18, 1991 07h 43m 56.60± 0.78s
30.778 S ± 5.8km 71.412 W ±10.3km
DEPTH = 79.2 ± 9.8 km
4.0mb (1 obs.)
NEAR COAST OF CENTRAL CHILE (135)

RTRS	1.79	71	iPd	44	26.60	0.5
JACH	2.02	160	iP	44	29.80	0.4
			iS	44	55.50	
ROCH	2.21	171	iPc	44	32.00	-0.2
			iS	45	02.00	
IHA	2.25	185	eP	44	31.80	-0.6
			iS	45	05.50	
RTLL	2.58	103	iPc	44	37.10	0.0
RTCV	2.69	114	ePc	44	39.90	1.4
LCCH	2.69	183	iPd	44	37.80	-0.8
			i	45	08.10	
FCH	2.71	160	iPc	44	40.00	0.8
			iS	45	15.50	
SAN	2.74	167	eP	44	40.00	0.7
			iS	45	16.00	
TACH	2.89	172	iPd	44	41.50	0.1
			iS	45	17.00	
PCH	2.93	165	iP	44	42.30	0.3
			iS	45	21.00	
LNV	3.17	180	iPc	44	44.00	-1.1
			i	45	31.00	
CYA	5.42	66	iPd	45	14.50	-2.1
CCH	14.17	21	P	47	21.10	5.9X
CNCB	14.25	13	P	47	17.00	0.5
			e	51	08.00	
LPB	14.50	13	eP	47	21.00	1.5
ZOBO	14.75	12	P	47	22.20	-0.7
	1.0s		10.00nm			4.0mb
Z	18s		0.14um			4.3Msz
			LR	52	28.00	
SIV	17.50	35	P	47	56.80	-0.1
PPD	19.98	69	eP	48	23.50	-1.6
			e	48	29.10	
LIC	73.27	72	P	55	21.70	0.3
TIC	73.51	72	P	55	23.20	0.3
KIC	73.58	72	P	55	23.70	0.5

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

JAN 18, 1991 07h 44m 43.72± 0.40s
43.490 N ± 2.8km 0.618 W ± 5.7km
DEPTH = 10.0km (geophysicist)
PYRENEES (378)
MD 2.0 (STR). Felt (IV) in the Locq areo, France.

OGE	0.34	162	Pg	44	50.67	-0.1
MADF	0.37	203	Pg	44	51.54	0.1
			Sg	44	56.98	
ATE	0.41	189	Pg	44	52.10	0.0
			Sg	44	57.48	
ESCF	0.41	176	Pg	44	51.91	-0.3
			Sg	44	57.37	
BOH	0.48	217	Pg	44	53.71	0.2
			Sg	45	00.40	
JAU	0.49	158	Pg	44	53.28	-0.4
EPF	0.84	123	Pg	45	00.40	0.5
LFF	1.75	34	Pg	45	19.60	5.4X
			Sg	45	44.00	
LPO	1.76	47	Pn	45	15.60	1.1
			Pg	45	19.60	
			Sg	45	43.80	
RJF	2.37	39	Pn	45	23.10	-0.2
			Pg	45	31.20	
			Sg	46	02.40	
CAF	2.40	52	Pn	45	24.20	0.4
			Pg	45	31.40	
			Sg	46	03.60	
MFF	3.13	6	Pn	45	33.80	-0.2
			Pg	45	46.00	
			Sn	46	11.50	
			Sg	46	27.10	
TCF	3.44	35	Pn	45	37.80	-0.7
			Pg	45	51.50	
			Sg	46	36.00	
MAF	3.55	39	Pn	45	39.40	-0.5
			Pg	45	52.90	
			Sn	46	19.20	
			Sg	46	38.00	
AVF	4.33	39	Pn	45	51.40	0.3
LPF	4.55	356	Pn	45	54.60	0.4
SSF	4.61	38	Pn	45	54.20	-0.8

S.D. = 0.5 on 16 of 17 obs.

% JAN 18, 1991 08h 01m 58.53± 1.57s
36.146 N ±12.2km 22.626 E ±14.1km
DEPTH = 10.0km (geophysicist)
SOUTHERN GREECE (368)
MD 3.5 (ATH).

VLI	0.62	24	ePb	02	11.00	-0.1
ITM	1.17	332	ePb	02	20.50	0.0
VAM	1.48	120	ePn	02	24.90	-0.3
APE	2.51	68	ePn	02	40.10	0.0
NPS	2.59	109	ePn	02	41.40	0.3

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

? JAN 18, 1991 08h 24m 52.21± 3.82s
48.633 N ±17.5km 1.362 W ±25.1km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.7 (LDG).

GRR	0.41	126	Pg	25	00.70	0.0
			Sg	25	06.00	
FLN	0.60	77	Pg	25	04.10	-0.2
			Sg	25	11.90	

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LPF      0.64 160 Pg     25 04.70   -0.3
                  Sg     25 13.70
LDF      0.82  92 Pg     25 08.30    0.2
                  Sg     25 18.80
                  Sn     25 21.80
MFF      2.19 158 Pn     25 29.50    0.3
                  Pg     25 34.30
                  Sg     26 01.30
      S.D. = 0.4   on    5 of   5 obs.
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*  JAN  18, 1991  08h 38m 36.21± 0.55s
   58.265 S ±10.7km   25.332 W ±19.3km
   DEPTH =  33.0km  (normol)
   5.1mb (  5 obs.)
 SOUTH SANDWICH ISLANDS REGION    (153)

SPA     31.91 180 iPc    45 00.50    0.0
        1.0s     45.00nm          5.3mb
PPD     40.76 321 e(P)   46 15.00   -0.6
VNDA    44.40 182 iPd    46 46.00    1.4
SOB1    50.38 340 eP     47 32.50    0.4
                  e      47 51.40
CNCB    51.95 305 P      47 45.00    0.4
LIC     66.33  22 P      49 23.20   -0.3
KIC     66.52  22 P      49 24.32   -0.4
        0.9s     11.50nm          5.0mb
TIC     66.74  22 P      49 25.64   -0.5
        0.8s     11.00nm          5.0mb
BCAO    71.65  47 iPc    49 58.00    1.6
        0.2s     16.00nm          5.7mb
                  ic     50 22.50
ASPA    96.56 161 eP     52 01.50   -2.2
        0.6s      3.40nm          5.0mb
YKA    138.48 316 ePKP   57 53.20   -5.4X
        0.6s      1.50nm
MBC    146.42 334 ePKP   58 12.00    0.0
        0.5s      4.00nm
INK    148.14 318 ePKP   58 15.00    0.1
FBA    152.72 308 (PKP)  58 26.50    4.5X
      S.D. = 1.1   on   12 of  14 obs.
-----------------------------------------
?  JAN  18, 1991  08h 47m 33.38±14.96s
    2.551 N ±42.2km   74.246 W ±115.km
   DEPTH =  33.0km  (normol)
 COLOMBIA                         (103)
      MD 3.7 (UVC).

DIAC     2.08 291 iPc    48 06.75   -0.1
                  eS     48 33.40
SILC     2.10 274 eP     48 06.96   -0.3
                  eS     48 33.60
PURC     2.13 264 ePc    48 07.90    0.1
                  eS     48 35.40
HOOC     2.55 291 eP     48 13.53   -0.1
HOBC     2.60 314 ePc    48 14.14    0.0
ANCC     2.79 290 eP     48 17.07    0.4
      S.D. = 0.3   on    6 of   6 obs.
-----------------------------------------
   JAN  18, 1991  09h 03m 38.33± 0.41s
   24.450 S ± 5.2km   67.639 W ± 9.9km
   DEPTH = 137.0km  (  2 depth phases)
   4.8mb (  7 obs.)
 CHILE-ARGENTINA BORDER REGION    (127)

CYA      4.31 158 iPd    04 46.00    2.8
RTRS     5.92 195 ePc    05 04.40   -0.5
RTLL     6.89 186 iPd    05 16.80   -1.4
CCH      7.17  12 P      05 21.90   -0.3
RTCV     7.43 186 ePd    05 24.00   -1.4
CNCB     7.61 358 iPc    05 27.80   -0.5
                  i      06 26.00
                  S      06 51.00
LPB      7.89 357 eP     05 31.00   -1.0
ZOBO     8.15 357 P      05 34.00   -1.7
                  eS     06 45.00
MDZ      8.47 187 i(P)   05 39.30   -0.1
ARE      8.73 335 eP     05 43.00   -0.1
                  iS     07 10.80
ROCH     8.99 198 eP     05 46.50    0.0
FCH      9.15 194 eP     05 41.50   -7.2X
PCH      9.48 195 eP     05 50.00   -2.9
TACH     9.61 197 eP     05 49.50   -5.1X
LCCH     9.63 200 ePd    05 38.50  -16.3X
LNV     10.03 198 eP     05 54.00   -6.0X
SIV     10.43  37 iPc    06 04.20   -1.2
NNA     15.16 323 eP     07 09.00    2.4
        0.7s      5.48nm          4.0mb

PPD     15.20  84 eP     07 04.40   -2.6
                  e      07 11.90
BAO     20.42  68 ePc    08 06.50   -0.2
SOB1    29.66  64 eP     09 35.20    1.9
TUL     65.67 335 ePd    14 08.40   -1.5
        0.8s     10.00nm          4.8mb
SPA     65.70 180 iPd    14 12.10    2.1
        1.0s     27.50nm          5.1mb
KIC     68.45  72 P      14 29.70    1.9
ALQ     69.59 327 eP     14 34.30   -0.4
        0.9s     10.50nm          4.7mb
                  e      15 08.00  137km
ANMO    69.60 327 P      14 34.80    0.1
                  pP     15 08.30  137km
TPC     74.20 320 eP     15 03.00    1.2
GSC     75.48 320 eP     15 10.00    0.8
SBB     75.66 319 eP     15 08.00   -2.2
CLC     76.30 320 eP     15 14.00    0.3
ISA     76.71 320 eP     15 17.00    1.0
SYP     76.85 318 eP     15 16.00   -0.9
LRM     80.91 330 eP     15 40.00    1.3
FFC     84.19 341 eP     15 55.00    0.0
        1.1s     19.00nm          4.9mb
PNT     86.78 329 eP     16 09.00    1.1
FRB     87.90 360 eP     16 12.00   -0.9
BCAO    88.34  84 iPc    16 20.00    3.8X
        0.7s      8.00nm          4.9mb
YKA     94.34 340 eP     16 42.50   -0.4
        0.6s      3.60nm          4.9mb
WRA    130.96 208 PKP    22 40.00    4.2X
        0.7s      1.00nm
GBA    145.36 102 PKP    23 03.70    1.6
HYB    147.72  96 ePKP   23 07.50    1.5
                  e      23 10.50
      S.D. = 1.5   on   35 of  41 obs.
-----------------------------------------
*  JAN  18, 1991  09h 03m 48.21± 2.92s
   51.194 N ±22.3km   16.018 E ±16.7km
   DEPTH =  10.0km  (geophysicist)
 POLAND                           (548)
      ML 3.0 (VKA).

KSP      0.39 154 iPd    03 56.20    0.0
         0.4s     38.00nm
                  iS     04 04.50
PRU      1.53 218 Pn     04 15.50   -0.1
                  Pg     04 17.50
                  e      04 21.00
                  Sn     04 34.70
                  Sg     04 40.00
CLL      1.90 275 ePg    04 21.00    0.1
                  eSg    04 46.00
KHC      2.59 218 Pn     04 31.60    0.7
                  Pg     04 37.70
                  eSn    05 08.70
                  Sg     05 18.00
HOF      2.77 253 ePn    04 40.70    7.2X
MOX      2.84 261 ePg    04 40.00    5.6X
                  iSg    05 20.00
WET      2.88 226 iPnc   04 34.50   -0.5
VKA      2.94 176 iPgc   04 44.20    8.4X
                  iSg    05 27.60
                  i      05 30.50
GRF      3.41 246 e(Pn)  04 42.40   -0.2
                  e(Pg)  04 59.30
                  e      05 38.90
      S.D. = 0.5   on    6 of   9 obs.
-----------------------------------------
   JAN  18, 1991  09h 08m 20.38± 0.21s
   15.092 N ± 4.4km   147.649 E ± 4.3km
   DEPTH =  25.8km  (  3 depth phases)
   5.2mb ( 21 obs.)  4.9Msz (  5 obs.)
 MARIANA ISLANDS REGION           (215)
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.8.: 16S, 27C
      Centroid Locotion:
      Origin Time        09:08:23.0 0.5
      Lat 15.25N 0.08 Lon 147.92E 0.07
      Dep  15.0 FIX Half-durotion  1.6
      Moment Tensor;   Scale 10**16 Nm
        Mrr=-7.22 0.47  Mtt= 0.85 0.71
        Mff= 6.37 0.49  Mrt= 3.28 1.76
        Mrf= 3.74 2.31  Mtf= 3.01 0.48
       Principal Axes:
        T  Val=  9.09  Plg=16  Azm=296
        N       -0.25       9       29

        P       -8.84      71      146
      Best Double Couple:Mo=9.0*10**16
       NP1:Strike= 13 Dip=30 Slip=-108
       NP2:       214      62      -80

GUA      3.07 240 eP     09 08.80    0.5
                  eS     09 44.80
PJG      3.08 241 eP     09 08.20   -0.3
RAB     19.68 166 e(P)   12 48.00   -2.7
                  eS     16 24.00
KAKJ    22.06 344 eP     13 11.50   -3.5X
IIDJ    22.10 338 eP     13 17.70    2.2
CHJJ    22.26 341 eP     13 16.40   -0.6
MAT     22.96 340 (P)    13 23.00   -0.9
        0.7s     25.34nm          4.9mb
                  eS     17 29.00
DAV     23.06 252 eP     13 21.00   -4.0X
MTMJ    23.14 339 eP     13 21.70   -4.0X
NIIJ    23.36 342 eP     13 28.60    0.9
PMG     24.35 181 eP     13 37.00   -0.5
OCP     25.68 272 eP     13 57.00    6.8X
BAG     26.08 277 eP     13 54.00   -0.1
        1.6s    400.00nm          5.8mb
SVO     26.94 153 P      14 04.00    2.3
SSE     28.98 308 P      14 20.00   -0.1
        1.2s     25.00nm          4.8mb
      Z 20s       2.30um          4.8Msz
      E 11s       0.70um
                  ePP    15 20.00
                  eS     19 14.00
WHN     34.17 303 Pc     15 09.20    3.4X
      Z 24s       0.70um          4.3MszX
      E 13s       0.90um
CN2     34.31 331 eP     15 05.00   -1.8
      Z 20s       3.00um          5.0Msz
      N 13s       0.90um
      E 13s       0.40um
                  epP    15 14.00   31km
TIA     34.40 313 eP     15 08.80    1.1
OIS     36.30 193 iPc    15 23.60   -0.3
BJI     37.03 318 eP     15 29.00   -0.9
        1.5s     78.00nm          5.3mb
      Z 36s       2.10um          4.7MszX
                  eS     21 12.00
                  esS    21 32.00
TIY     38.42 313 Pc     15 43.00    1.3
      Z 24s       1.50um          4.7MszX
      E 12s       0.70um
XAN     39.65 306 P      15 51.50   -0.5
GYA     39.80 293 P      15 54.40    1.0
HHC     40.47 316 P      15 58.60   -0.1
ASPA    40.80 199 iPd    16 00.90   -0.6
        0.6s     18.10nm          5.0mb
      Z 19s       0.70um          4.5Msz
                  eS     21 28.30
                  iScP   22 30.00
DZM     41.27 153 iPc    16 06.70    1.3
RMO     41.34 178 eP     16 05.00   -0.9
BTO     41.39 315 eP     16 07.00    0.7
                  eS     22 20.00
CD2     43.07 299 P      16 20.00   -0.1
        6.0s    600.00nm          5.5mb X
      Z 22s       1.50um          4.8Msz
      E 14s       1.00um
                  ePP    18 03.00
                  eS     22 41.50
LZH     44.24 307 iPc    16 30.70    1.0
        5.0s    730.00nm          5.8mb X
      Z 16s       1.21um          4.9MszX
      E 15s       0.81um
                  pP     16 40.30   32km
                  S      23 03.00
NST     45.74 277 eP     16 46.50    4.8X
WARB    45.84 207 eP     16 43.00    0.7
CHG     46.63 282 eP     16 49.00    0.3
        1.0s     13.00nm          4.9mb
BDT     46.68 280 eP     16 49.20    0.2
        0.8s     31.10nm          5.4mb
GTA     48.25 310 eP     17 01.60    0.3
        6.0s    640.00nm          5.8mb X
      Z 20s       2.10um          5.1Msz
      E 17s       1.40um
                  pP     17 06.00   15km
                  sP     17 12.70
                  PcP    18 28.70
                  eS     23 58.20
ADE     50.50 190 e(P)   17 18.90    0.4
```

18d 09h

TOO	52.42	182	eP	17	33.00	0.1
			i	17	56.90	
LSA	53.74	296	P	17	44.60	1.1
WMO	58.09	312	Pc	18	14.00	-0.1
	1.5s	100.00nm			5.6mb	
			S	26	15.50	
GUN	58.34	294	P	18	15.86	-0.6
PKI	58.77	293	P	18	18.12	-1.3
	1.2s	51.00nm			5.5mb	
KKN	58.88	294	P	18	18.80	-1.2
	1.0s	38.00nm			5.5mb	
DMN	59.04	293	P	18	20.44	-0.7
GKN	59.44	294	P	18	22.82	-1.0
TTA	61.64	26	eP	18	37.10	-1.1
IMA	63.83	23	eP	18	51.80	-0.9
	1.1s	11.30nm			4.9mb	
PMR	64.19	28	e(P)	18	54.70	-0.2
	1.3s	23.80nm			5.2mb	
FBA	65.73	25	eP	19	04.40	-0.4
NDI	65.93	295	eP	19	07.00	0.3
HYB	66.04	283	eP	19	07.00	-0.6
GBA	67.76	279	P	19	19.00	0.5
	0.9s	6.50nm			4.8mb	
POO	70.28	285	eP	19	34.00	-0.1
INK	71.96	23	eP	19	42.00	-1.2
QUE	74.66	298	eP	20	00.60	0.6
MBC	76.16	14	ePd	20	07.70	0.2
	1.0s	31.00nm			5.3mb	
MAIO	79.77	305	eP	20	29.00	0.8
WDC	80.21	51	ePd	20	30.80	0.5
YKA	80.29	28	eP	20	29.10	-1.2
	1.0s	9.40nm			4.8mb	
PNT	80.47	42	ePc	20	32.00	0.4
	1.2s	46.00nm			5.4mb	
MIN	80.95	51	eP	20	34.10	-0.4
BRK	80.97	53	e(P)	20	34.90	0.5
BKS	80.99	53	e(P)	20	35.30	0.8
	0.8s	25.00nm			5.3mb	
ORV	81.20	51	eP	20	33.40	-2.2
MHC	81.56	54	ePd	20	38.20	0.5
PRS	81.99	55	ePd	20	40.50	0.7
LLA	82.27	54	eP	20	42.10	0.9
CMB	82.38	53	ePd	20	42.30	0.4
PRI	82.59	55	eP	20	43.90	0.8
FRI	83.15	54	ePd	20	46.00	0.3
SYP	83.51	56	eP	20	51.00	3.1X
ISA	84.43	55	eP	20	53.00	0.6
CLC	85.09	54	eP	20	55.00	-0.6
SBB	85.19	56	eP	20	57.00	0.8
SES	85.55	39	eP	20	57.00	-0.7
	1.1s	69.00nm			5.8mb	
GSC	85.84	55	eP	21	00.00	0.5
LRM	86.05	44	eP	21	00.70	0.2
DAG	87.96	357	eP	21	08.40	-0.4
	1.0s	8.00nm			5.0mb	
FFC	89.10	33	eP	21	13.00	-1.7
	1.2s	28.00nm			5.5mb	
ALQ	94.00	52	eP	21	39.00	1.0
	1.2s	10.94nm			5.2mb	
BCAO	125.99	287	iPKPc	27	24.00	1.0
	0.8s	7.00nm				
			ic	29	17.30	
KIC	145.31	306	PKP	27	58.16	-0.4
	1.0s	48.50nm				
TIC	145.35	307	PKP	27	58.24	-0.4
ZOBO	145.56	97	PKP	28	01.00	1.4
	1.2s	19.26nm				
LPB	145.60	97	ePKP	27	57.00	-2.5
			e	28	03.00	
LIC	145.62	306	PKP	27	59.20	0.1
	1.0s	62.50nm				
CNCB	145.73	98	PKP	28	01.70	1.8
CCH	147.50	99	PKP	28	02.00	-0.4

S.D. = 1.0 on 80 of 87 obs.

JAN 18, 1991 09h 32m 24.21± 4.14s
16.739 N ±34.4km 146.196 E ±26.8km
DEPTH = 80.2 ± 37.7 km
3.9mb (2 obs.)
MARIANA ISLANDS (216)

PJG	3.39	202	eP	33	16.50	0.7
GUA	3.42	201	eP	33	15.60	-0.6
			eS	33	38.30	
WRA	38.27	198	P	39	46.00	7.5X
	0.8s	2.90nm			4.3mb	
GUN	56.41	293	P	42	00.00	-0.4
YKA	79.49	28	eP	44	23.30	0.1
	1.0s	0.90nm			3.6mb	
KIC	143.22	306	PKP	51	51.90	0.2
TIC	143.25	307	PKP	51	52.00	0.2
LIC	143.53	306	PKP	51	52.80	0.6
ZOBO	147.11	94	ePKP	51	58.00	-0.8
			LR	15	42.00	

S.D. = 0.7 on 8 of 9 obs.

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* JAN 18, 1991 10h 00m 34.00± 0.80s
21.110 S ± 7.7km 178.494 W ±12.8km
DEPTH = 589.2 ± 12.2 km
5.0mb (7 obs.)
FIJI ISLANDS REGION (181)

SGE	4.87	315	iPc	02	07.00	1.2
AFI	9.61	43	eP	02	47.00	-2.2
			eS	04	32.00	
DZM	14.04	263	iPc	03	35.00	2.0
HBZ	16.67	189	eP	03	59.30	1.1
	0.2s	9.00nm			4.9mb	
WLZ	17.44	196	P	04	09.20	3.5X
NOZ	17.70	189	P	04	10.00	1.9
PGZ	19.95	192	eP	04	28.30	-0.7
	0.3s	14.00nm			5.1mb	
MNG	20.11	193	eP	04	29.00	-1.5
	0.3s	15.00nm			5.1mb	
KIW	20.47	194	P	04	33.10	-0.7
MTW	20.63	193	eP	04	34.90	-0.3
CAW	20.67	194	P	04	35.40	-0.2
BLW	20.83	193	eP	04	38.50	1.4
MRW	20.87	195	eP	04	37.60	0.2
TCW	20.96	195	eP	04	37.50	-0.7
THZ	21.84	198	P	04	46.40	0.2
KHZ	22.28	196	P	04	49.80	-0.3
	0.3s	17.00nm			5.2mb	
LTZ	22.96	198	P	04	55.60	-0.7
MMCZ	25.93	200	P	05	22.20	-0.4
MHZ	25.93	200	eP	05	22.50	-0.1
ASPA	43.93	257	iPd	07	50.90	-0.7
	0.7s	28.20nm			4.9mb	
			iS	13	38.00	
WRA	44.06	263	P	07	51.00	-1.6
	0.3s	55.50nm			5.6mb	
WARB	50.21	253	eP	08	38.10	-0.8
PLM	79.90	48	eP	11	45.00	1.1
SBB	79.98	47	eP	11	45.00	0.9
ISA	80.09	46	eP	11	46.00	1.3
CLC	80.76	46	eP	11	49.00	0.9
PNT	87.42	34	eP	12	21.00	0.7
	0.8s	11.00nm			4.7mb	
IMA	88.92	10	eP	12	26.00	-1.1
FBA	88.93	13	eP	12	25.20	-1.8
YKA	97.26	25	eP	13	03.70	-1.3
	0.9s	0.50nm			3.8mb X	
NB2	139.53	353	PKP	18	46.80	-9.5X
	0.7s	2.10nm				
HFS	140.06	351	ePKP	18	49.30	-7.9X
	0.4s	3.80nm				
EKA	145.65	5	PKP	19	09.00	2.1
	2.0s	107.90nm				
KSP	148.13	342	iPKP	19	15.00	4.0X
CLL	148.54	346	iPKP	19	15.90	4.3X
	0.8s	16.00nm				
			i	19	21.00	
PRU	149.39	343	PKP	19	18.50	5.5X
			e	19	25.50	

S.D. = 1.3 on 30 of 36 obs.

? JAN 18, 1991 10h 24m 51.64± 0.95s
37.048 N ± 8.6km 29.635 E ± 8.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.2 (ISK).

ELL	0.37	144	iPg	24	59.00	-0.3
			iSg	25	06.50	
BCK	0.87	61	iPn	25	08.90	0.6
YER	1.08	275	iPn	25	12.40	0.3
KHL	1.28	356	ePn	25	14.80	-0.6

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

? JAN 18, 1991 10h 36m 01.85± 0.87s
25.089 S ± 7.1km 68.985 W ±40.4km
DEPTH = 100.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)

RTRS	5.08	185	iPc	37	18.50	1.6
RTLL	6.23	176	iPd	37	32.20	-0.8
RTCV	6.76	177	ePd	37	39.30	-0.9
CCH	8.11	20	P	38	00.50	1.5
CNCB	8.29	7	P	38	04.00	2.4X
			eS	39	14.00	
LPB	8.55	6	eP	38	03.00	-2.1
ZOBO	8.81	5	eP	38	09.00	0.3
			i	38	10.80	
ARE	8.90	344	eP	38	10.00	0.4
			eS	39	48.00	

S.D. = 1.6 on 7 of 8 obs.

JAN 18, 1991 10h 45m 18.47± 0.19s
51.145 S ± 5.2km 139.415 E ± 5.5km
DEPTH = 10.0km (geophysicist)
5.7mb (30 obs.) 6.3Msz (26 obs.)
SOUTH OF AUSTRALIA (437)
Ms 6.2 (BRK).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 44C M.W.: 14S, 31C
Centroid Locotion:
Origin Time 10:45:25.5 0.1
Lat 51.18S 0.02 Lon 139.65E 0.02
Dep 15.0 FIX Half-duration 4.0
Moment Tensor; Scale 10**18 Nm
Mrr= 0.02 0.03 Mtt= 0.14 0.05
Mff=-0.16 0.04 Mrt=-1.14 0.12
Mrf=-0.24 0.11 Mtf=-3.24 0.03
Principal Axes:
T Val= 3.37 Plg=12 Azm=222
N 0.15 71 96
P -3.51 15 315
Best Double Couple:Mo=3.4*10**18
NP1:Strike=358 Dip=71 Slip= -3
NP2: 89 87 -161

8FD	14.14	10	ePd	48	41.70	0.8
	0.9s	289.00nm			6.0mb	
TOO	14.24	20	eP	48	42.00	-0.2
	0.9s	257.00nm			5.9mb	
			i	48	51.50	
DRV	15.57	179	eP	48	57.00	-2.3
ADE	16.18	358	eP-	49	07.70	0.3
	1.5s	1388.89nm			5.9mb	
CNB	17.38	28	iPc	49	23.20	0.7
	1.0s	165.00nm			5.1mb	
STK	19.31	6	P	49	48.00	1.6
CMS	20.21	16	eP	49	56.00	0.0
	1.0s	103.00nm			5.1mb	
MMCZ	20.69	84	P	49	59.90	-1.3
MHZ	20.76	85	P	50	01.10	-0.7
FORR	21.95	333	eP	50	15.00	1.2
	0.5s	103.00nm			5.5mb	
COO	22.55	29	iPc	50	21.40	1.5
LTZ	23.77	82	P	50	30.10	-1.6
COOL	24.36	319	eP	50	37.00	-0.5
NWAO	24.39	310	eP	50	37.00	-0.8
	1.0s	122.00nm			5.5mb	
THZ	24.72	81	P	50	41.20	0.3
OLP	24.80	10	eP	50	42.00	0.3
KLB	25.24	312	eP	50	44.00	-2.0
RMQ	25.63	20	eP	50	49.00	-0.6
	0.3s	49.00nm			5.7mb	
			e	51	38.00	
MUN	25.66	309	eP	50	48.00	-1.9
BRS	25.80	28	iPc-	50	52.00	0.8
			ePP	51	30.00	
			iS	55	30.00	
WEL	26.14	82	P	50	52.00	-2.2
			PP	51	28.00	
			S	55	26.00	
CAW	26.43	82	eP	50	56.00	-0.9
ASPA	27.76	349	iPd	51	06.90	-2.3
	1.2s	65.10nm			5.3mb	
Z	23s	48.90um			6.0MszX	
			eS	55	50.10	
MRWA	28.06	312	eP	51	11.00	-0.9
	0.6s	6.00nm			4.6mb X	
SBA	28.65	168	P	51	15.80	-0.9
MEKA	29.20	319	eP	51	20.00	-2.1
	1.0s	58.00nm			5.3mb	
QIS	30.53	0	eP	51	33.00	-1.0
WRA	31.39	351	P	51	38.00	-3.6X
	0.9s	59.80nm			5.5mb	
MBL	33.63	326	eP	51	59.00	-2.1

DZM		35.84	46	iPc	52	29.70	9.5X	KRI		88.90	244	eP	58	15.00	0.4	GSC		124.72	75	ePKP	04	19.00	-0.5
KNA		36.33	343	eP	52	22.00	-2.2	POO		89.89	300	iPd	58	16.50	-2.4	WDC		124.78	67	ePKP	04	18.80	-0.5
		1.0s		71.00nm			5.5mb			1.8s		272.73nm			6.2mb	MIN		125.17	67	ePKP	04	21.80	1.5
SPA		39.04	180	eP	52	44.00	-2.8	LNV		91.02	155	eP	58	20.00	-4.0X	PMR		125.89	34	PKP	04	18.00	-2.8
		1.0s		185.00nm			5.7mb	LSA		91.03	320	P	58	24.70	0.3		Z	20s		7.50um			6.4Msz
	Z	20s		28.83um			6.1Msz		Z	17s		4.30um			6.0MszX	KIC		126.37	226	PKP	04	23.50	0.3
PMG		42.09	11	eP	53	12.00	-0.1		N	18s		3.60um				LIC		126.38	226	PKP	04	23.00	-0.2
PAF		42.79	244	iPc	53	28.00	10.5X					SKS	08	55.00		TIC		126.75	226	PKP	04	24.10	0.1
				ePP	55	08.00						SS	15	28.00		IMA		127.47	28	PKP	04	22.00	-1.9
				eS	58	56.00		PKI		91.66	314	PKP	58	26.90	-0.3	FBA		128.53	31	PKP	04	23.00	-2.8
				eSSS	03	20.00		GUN		91.74	315	PKP	58	27.60	0.0	BBTK		129.39	287	ePKP	04	36.00	7.6X
KUPT		42.89	337	eP	53	19.50	0.9	DMN		91.83	314	PKP	58	27.60	-0.3	MSU		129.62	75	PKP	04	28.00	-1.0
HNR		44.89	29	eP	53	35.00	0.2	KKN		91.90	314	PKP	58	28.00	-0.2	ALO		130.87	83	e(PKP)	04	30.00	-1.5
				eS	00	16.00		LZH		92.32	332	Pd	58	30.00	0.2		Z	18s		3.52um			6.1Msz
NDF		44.91	56	eP	53	30.00	-5.0X			5.0s		1100.00nm			6.5mb X	ANMO		130.87	83	PKP	04	31.00	-0.5
SVO		45.11	29	eP	53	34.00	-2.6					pP	58	41.00	35kmX		Z	18s		6.19um			6.4Msz
SGE		45.30	57	eP	53	37.20	-1.0	GKN		92.38	314	PKP	58	29.60	-0.7	BW06		133.79	72	PKP	04	37.00	0.2
RAB		48.00	17	e(P)	54	02.00	2.6X	MDZ		92.70	156	e(P)	58	47.40	15.5X	LRM		133.81	67	ePKP	04	37.10	0.3
				eS	00	56.00		BJI		93.06	342	eP	58	34.00	1.2	GOL		134.52	78	PKP	04	42.00	3.7X
CRZF		54.58	238	iPc	54	48.00	-0.8			1.0s		18.00nm			5.5mb		Z	18s		4.98um			6.3Msz
				eS	02	09.00						eSKS	09	00.00		GLD		134.64	78	PKP	04	42.00	3.5X
DAV		59.21	344	eP	55	22.00	0.0	SNY		93.62	348	eP	58	35.80	0.4		Z	18s		5.52um			6.3Msz
PPI		60.29	314	e(P)	55	28.00	-1.5		Z	24s		7.90um			6.1MszX	INK		135.15	32	ePdiff	01	32.00	-8.2X
TBI		60.44	91	eP	55	33.00	2.6X		N	18s		4.30um				INK		135.15	32	ePKP	04	36.00	-2.2
		1.2s		70.00nm			5.7mb		E	17s		1.80um				MEO		135.71	88	e(PKP)	04	41.20	0.8
AIA		62.51	169	eP	55	44.60	0.7	HHC		94.79	339	eP	58	41.40	0.4	MLR		136.76	290	ePKP	04	49.00	6.8X
AFR		64.52	87	iP	55	57.60	-0.1		Z	28s		8.20um			6.0MszX	SES		137.02	62	ePKP	04	37.00	-5.4X
		1.3s		85.00nm			5.8mb		E	23s		16.20um				SKO		137.55	283	ePKP	04	46.00	2.3
PAE		64.55	87	iP	55	57.80	-0.1					PP	02	27.00						i	04	51.70	
		1.3s		95.00nm			5.8mb					SKS	09	20.00		TUL		138.19	89	e(PKP)	04	47.00	2.0
PPT		64.62	87	iP	55	58.20	-0.2					S	09	56.00		YKA		140.21	44	ePKP	04	44.50	-3.3X
		1.3s		110.00nm			5.9mb	BTO		94.91	338	eP	58	45.00	3.5X			0.9s		7.10nm			
TVO		64.67	87	iP	55	59.00	0.3	CN2		95.34	350	eP	58	44.00	0.7	MBC		141.58	22	ePKP	04	45.50	-4.4X
		1.3s		150.00nm			6.0mb		Z	23s		16.00um			6.4MszX			0.9s		15.00nm			
PPN		64.74	87	iP	55	59.40	0.3		N	22s		5.60um				KRA		142.52	293	ePKP	04	55.20	2.9X
		1.3s		125.00nm			5.9mb		E	22s		1.40um								i	05	00.30	
SNG		67.00	318	eP	56	10.20	-3.3X					epP	58	49.00	16kmX					i	05	09.80	
		2.0s		647.06nm			6.5mb					eS	09	52.00		PTJ		142.98	285	ePKP	04	54.70	1.3
				eS	05	04.10		MDJ		95.76	353	eP	58	46.50	1.3	KAF		143.29	314	ePKP	04	52.80	-0.4
VAH		67.60	87	iP	56	18.40	1.0		Z	32s		3.70um			5.7MszX	ZST		143.37	289	ePKP	04	53.40	-0.4
		1.3s		95.00nm			5.8mb	GTA		96.61	330	eP	58	51.80	2.5	NUR		143.66	311	ePKP	04	53.00	-0.9
PMO		67.61	86	iP	56	18.80	1.4			8.0s		500.00nm			6.1mb X		Z	16s		5.70um			6.4MszX
		1.3s		105.00nm			5.9mb		Z	20s		2.10um			5.6Msz					LR	10	14.00	
RUV		67.79	87	iP	56	19.40	0.8		N	19s		9.30um								e	27	22.00	
		1.3s		60.00nm			5.6mb					PP	02	46.40		FFC		143.86	60	ePKP	04	50.00	-4.5X
TPT		67.80	86	iP	56	19.70	1.1					SKS	09	23.50				1.8s		110.00nm			
		1.3s		90.00nm			5.8mb	SMY		107.55	21	PKP	03	55.00	9.0X	VKA		143.87	288	e(PKP)	04	53.00	-1.7
BAG		69.26	341	eP	56	24.90	-2.9		Z	20s		18.40um			6.6Msz		Z	20s		3.70um			6.1Msz
OIZ		74.54	331	eP	57	03.50	4.6X	CNCB		108.21	152	ePdiff	59	50.00	7.6X					i	05	30.80	
	N	14s		1.90um				LPB		108.43	152	(Pdiff	59	52.00	8.8X	LJU		143.92	284	e(PKP)	05	01.80	6.9X
	E	18s		4.60um					Z	24s		6.20um			6.1MszX	SOD		144.15	322	iPKP	04	53.30	-1.3
				iS	06	39.00						LR	35	30.00		KEV		144.26	327	ePKP	04	55.00	0.3
NST		74.86	321	eP	57	05.00	4.2X	ZOBO		108.68	152	Pdiff	59	58.00	13.5X					e	27	06.00	
BDT		76.73	320	eP	57	11.00	-0.4					SKS	10	26.00		VOY		144.31	284	ePKP	04	55.40	-0.2
CHG		78.17	321	ePd	57	19.10	-0.3					LR	35	08.00		CRE		144.31	279	PKP	04	56.60	0.9
		1.2s		171.88nm			6.0mb	BCAO		112.46	248	ePdiff	00	16.00	15.3X	RSCP		144.41	98	PKP	04	51.40	-4.7X
				eS	07	16.00				0.8s		4.00nm				SFI		144.52	279	PKPd	04	56.00	0.1
HVD		80.02	233	iPc	57	27.50	-2.2	BCAO		112.46	248	iPKPc	04	03.80	7.3X	FIR		144.82	279	ePKP	04	55.00	-1.4
KOD		81.11	298	eP	57	37.60	1.9			0.9s		23.00nm				KSP		144.97	292	ePKP	04	54.40	-2.1
SLR		82.50	238	iPc	57	45.50	2.8X					id	04	40.30						i	04	58.00	
		1.5s		97.22nm			5.7mb					id	04	57.90		KMR		145.09	287	iPKP+	04	55.60	-1.2
KMI		82.53	327	Pd	57	43.50	0.8	TAB		120.24	294	ePdiff	00	39.00	4.0X					i	05	48.30	
		5.0s		1800.00nm			6.5mb X					e	04	13.00		KBA		145.13	285	iPKPc	04	54.40	-2.7
	Z	23s		18.50um			6.4MszX					e	04	41.00				1.3s		232.00nm			
	N	19s		7.30um								e	05	37.00						i	05	03.20	
				pP	57	47.50	13kmX	PRS		122.65	71	ePKP	04	18.10	2.8X					i	05	16.20	
SSE		83.45	344	P	57	45.80	-1.2	PRI		122.95	72	e(PKP)	04	19.00	2.9X	VVI		145.18	283	PKP	04	57.60	0.6
		1.3s		390.00nm			6.5mb	BRK		123.16	69	ePKP	04	18.20	2.0	PII		145.25	278	PKP	04	57.90	0.8
	Z	20s		10.10um			6.2Msz		Z	20s		10.00um			6.5Msz	FVI		145.25	284	PKP	04	57.50	0.5
	N	19s		5.70um								eSS	23	19.00		BDI		145.38	279	PKP	04	56.30	-1.2
	E	18s		4.30um								eLR	42	45.00		MME		145.38	279	PKP	04	59.30	1.6
				S	08	08.00		BKS		123.18	69	ePKP	04	18.70	2.4	TKL		145.56	100	PKP	04	55.50	-2.5
GBA		83.90	300	P	57	50.00	0.3		Z	20s		6.00um			6.2Msz	PGF		145.59	275	PKP	04	56.69	-1.3
NJ2		84.80	343	eP	57	58.00	4.2X		N	20s		4.00um				PRU		145.66	290	PKP	04	56.50	-1.2
	Z	20s		3.00um			5.7Msz		E	20s		5.00um						2.5s		326.80nm			
				iS	08	20.00						eSS	23	41.60			Z	18s		3.20um			6.1Msz
HYB		86.46	303	eP	58	05.00	2.6X					eLQ	36	10.40			N	20s		1.70um			
				eS	08	28.00						eLR	40	50.40			E	19s		1.90um			
BUL		86.81	242	eP	58	08.80	4.3X	MWC		123.23	75	ePKP	04	23.00	6.2X					e	04	59.00	
		1.0s		34.00nm			5.5mb	PLM		123.37	77	ePKP	04	19.00	1.9					e	05	04.60	
	Z	18s		75.60um			7.1Msz	SBB		123.69	75	ePKP	04	17.00	-0.5					e	05	08.80	
	N	18s		31.62um				ISA		123.95	74	ePKP	04	18.00	0.0					PP	08	25.00	
	E	18s		72.85um				FRI		124.09	72	ePKP	04	17.50	-0.6					SS	27	06.00	
MAT		87.32	359	(P)	58	08.00	1.9	CMB		124.38	70	ePKP	04	20.50	1.8	CTI		145.69	282	PKPd	04	59.00	1.0
	Z	20s		8.87um			6.2Msz	TPC		124.38	77	ePKP	04	23.00	4.1X	KHC		145.88	288	ePKP	04	53.60	-4.5X
				eS	08	46.00		CLC		124.58	74	ePKP	04	18.00	-1.2			1.5s		232.00nm			
CD2		87.54	330	eP	58	08.00	0.6	ORV		124.72	68	ePKP	04	18.20	-1.0		Z	18s		2.60um			6.1Msz

18d 11h

	N	17s		1.70um					ECH	149.39	284	PKP	05	05.50	1.7		QZH	2.73	296	Pnd	50	41.00	-0.9	
	E	17s		2.40um					CDF	149.40	284	PKP	05	06.10	2.3					Pg	50	50.00		
			e		04	59.50			GWF	149.41	285	PKP	05	06.76	3.0X					Sn	51	13.00		
			e		05	06.40			BSF	149.46	283	PKP	05	04.56	0.6		HKC	6.71	259	P	51	30.00	-8.2X	
SGS	145.92	106	PKP		04	57.00	-1.6		SSB	149.75	277	PKP	05	07.93	3.5X		SSE	7.32	359	P	51	45.50	-1.2	
SAL	146.18	281	PKPd		05	03.50	4.9X		ABH	149.79	287	ePKP	05	06.94	2.6X			0.8s		31.00nm			5.5mb	
JSC	146.20	104	PKP		04	57.40	-1.7		HAU	149.81	283	ePKP	05	07.30	2.9X			Z	16s		5.30um			3.8Msz	
WET	146.30	288	ePKP		04	57.20	-1.6			1.4s		243.95nm							N	10s		4.10um				
	Z	20s		6.00um			6.4Msz		AVE	149.99	246	iPKP	05	10.00	4.9X			E	10s		5.20um				
WATA	146.32	284	iPKPc		04	58.20	-0.9					i	05	15.00							pP	51	47.50		
			i		05	07.20			EBR	150.01	266	ePKP	05	13.00	8.2X						sP	51	53.30		
BOB	146.44	279	PKPd		05	00.90	1.7		VITF	150.12	283	PKP	05	05.50	0.8						S	53	07.00		
OGA	146.45	283	iPKPc		04	59.00	-0.4		NB2	150.23	310	PKP	05	08.00	3.4X		GZH	7.33	266	Pn	51	45.00	-1.8	
SOTA	146.50	284	iPKPc		04	58.20	-1.1			1.3s		124.60nm							Z	14s		5.30um				
	1.0s		127.00nm						AFC	150.38	257	ePKP	05	10.10	4.3X						Sn	53	03.60		
			i		05	09.60			ECOG	150.41	257	ePKP	05	12.50	6.8X		NJ2	8.55	346	Pd	52	01.50	-2.3	
			i		05	11.20			MAL	150.57	255	iPKPd	05	09.00	3.2X						pP	52	07.70		
			e		08	48.00						i	12	24.00			WHN	9.16	319	eP	52	11.50	-0.9	
LHS	146.61	104	PKP		05	00.00	0.3		EVIA	150.61	260	ePKP	05	10.10	4.1X			Z	12s		3.70um				
KBS	146.74	344	ePKP		05	02.50	3.9X		MUD	150.68	300	iPKPd	05	14.70	9.4X			E	10s		7.30um				
MDI	146.76	281	PKP		05	01.10	1.6			1.1s		48.00nm									S	53	57.00		
FUR	146.86	2B6	iPKPc		05	01.60	1.9		SMF	150.79	279	ePKP	05	09.90	4.0X		TIA	12.93	345	eP	53	09.50	5.8X	
PCP	146.89	278	PKP		05	00.74	0.8			1.4s		130.70nm							Z	10s		2.40um				
UPP	146.93	308	iPKP		05	04.10	4.7X		LBF	150.85	279	ePKP	05	10.20	4.2X			E	10s		3.40um				
			i		05	09.10			WTS	150.93	290	ePKP	05	14.00	8.2X		GYA	13.52	285	P	53	13.00	1.3	
FIN	146.94	277	PKP		05	00.64	0.7			1.0s		84.00nm							N	10s		2.20um				
IMI	146.99	277	PKP		04	59.71	-0.4					e	05	34.00					E	10s		7.40um				
CKI	147.00	278	PKPd		05	04.30	4.3X		LOR	151.04	280	ePKP	05	10.40	4.2X						S	55	38.60		
CLL	147.07	292	ePKP		05	01.00	1.1			1.2s		104.15nm					XAN	14.90	316	P	53	28.70	-1.0	
	1.7s		270.00nm							Z	20s		12.00um			6.7Msz	DL2	15.11		1 Pc	53	35.50	3.2X	
	Z	17s		2.50um			6.1MszX		ENN	151.08	288	ePKP	05	11.00	4.9X			5.0s		800.00nm			5.4mb	X
			i		05	08.80				1.0s		72.00nm						Z	10s		1.70um			4.9MszX	
ROB	147.19	277	PKP		05	01.36	0.9		EBAN	151.11	258	ePKP	05	14.60	8.0X			N	10s		2.30um				
BSD	147.21	299	iPKP		05	02.70	2.7X		CAF	151.13	274	ePKP	05	11.10	4.6X						eS	56	28.00		
	1.2s		360.00nm							1.5s		182.80nm					TIY	15.85	333	eP	53	43.50	1.5	
SAOF	147.24	277	PKP		05	01.37	0.9		CBN	151.14	102	ePKP	05	11.00	4.4X						pP	53	49.00		
SBF	147.25	276	ePKP		05	02.20	1.7		AVF	151.16	279	ePKP	05	10.70	4.3X		BJI	16.81	346	eP	53	55.50	1.4	
AUTN	147.32	276	PKP		04	59.92	-1.0			1.0s		32.00nm							1.5s		97.00nm			4.7mb	
AURF	147.33	276	PKP		05	01.63	0.9		DLA	151.16	90	PKP	05	12.00	5.5X		KMI	16.95	278	eP	53	57.50	1.2	
VAI	147.38	280	PKP		05	03.00	2.5		SSF	151.18	279	ePKP	05	10.90	4.5X		CD2	17.12	298	eP	53	58.90	0.7	
ENR	147.44	277	PKP		05	00.64	-0.2		WIT	151.25	292	e(PKP)	05	15.00	8.7X			Z	12s		5.90um				
TOUF	147.44	276	PKP		04	58.58	-2.4		EPF	151.29	270	ePKP	05	11.30	4.5X						S	57	13.50		
MVIF	147.45	276	PKP		04	59.53	-1.4			0.9s		55.70nm					SNY	18.13		6 iPd	54	12.00	1.4	
STV	147.51	277	PKP		05	01.46	0.5		BGF	151.38	278	ePKP	05	11.70	5.0X			7.0s		1900.00nm			5.3mb	X
GRF	147.52	288	ePKP		05	02.00	1.3		MAF	151.40	277	ePKP	05	11.40	4.6X			Z	12s		2.30um			4.2Msz	
	Z	22s		8.00um			6.5Msz			1.2s		47.60nm							E	14s		3.00um				
CALN	147.54	276	PKP		05	02.11	1.0		ELF	151.50	90	PKP	05	12.70	5.7X						S	57	33.00		
LMR	147.56	275	ePKP		05	02.30	1.4		LDN	151.50	90	PKP	05	12.50	5.5X						sS	57	38.00		
	1.4s		226.55nm						RJF	151.65	275	ePKP	05	12.40	5.2X		HHC	18.91	337	P	54	22.40	2.1	
FRF	147.59	275	ePKP		05	02.50	1.5			1.0s		48.00nm							1.4s		300.00nm			5.3mb	
MOX	147.64	290	ePKP		05	03.00	2.1			Z	21s		9.75um			6.6Msz			Z	12s		2.00um			4.1MszX	
	2.2s		484.00nm						TCF	151.66	277	ePKP	05	12.30	5.1X			N	10s		1.30um				
	Z	22s		6.10um			6.3Msz			1.4s		91.50nm					BTO	19.29	333	eP	54	25.00	-0.1	
	N	22s		4.10um					BTH	151.68	269	PKP	05	16.50	9.2X			N	12s		2.10um				
	E	21s		4.60um					EHOR	151.78	256	ePKP	05	18.20	10.6X			E	11s		1.60um				
DOI	147.69	277	PKP		05	05.80	4.6X		LFF	151.97	274	ePKP	05	13.30	5.6X						sP	54	30.00		
LRG	147.72	275	ePKP		05	03.10	1.9			1.2s		83.30nm					LOE	19.36	255	eP	54	27.50	1.6	
	1.4s		322.40nm						LSF	152.07	277	ePKP	05	13.20	5.4X						e	57	06.00		
	Z	21s		10.00um			6.6Msz		TOL	152.31	260	ePKP	05	18.00	9.6X		MAT	19.37	45	eP	54	30.00	4.0X	
ORO	147.76	280	PKP		05	04.80	3.4X					iPKKP	05	33.00							(S)	58	13.00		
ORX	147.76	280	PKP		05	02.28	0.9					ePP	09	18.00			LZH	19.45	313	iPd	54	27.00	-0.1	
PZZ	147.78	277	PKP		05	01.77	0.3					ePPP	12	50.00				5.0s		1170.00nm			5.4mb	X
BHB	147.84	278	PKP		05	01.46	0.1					eSS	28	28.00							sP	54	37.00		
ESEL	147.90	266	ePKP		04	56.20	-5.4X					eSSS	34	26.00							PP	54	47.30		
RSP	147.99	278	PKP		05	03.51	1.8		DAG	152.93	349	iPKPc	05	14.30	6.2X		CN2	20.29		9 eP	54	37.00	1.2	
TIO	148.16	243	iPKP		05	05.50	3.0X			0.9s		51.26nm						Z	13s		3.40um			4.9MszX	
			i		05	48.00				Z	21s		6.45um			6.4Msz		N	11s		0.80um				
RRL	148.18	278	PKP		05	03.20	1.0			N	20s		3.26um					E	11s		0.50um				
LSD	148.20	279	PKP		05	02.59	0.3		RSNY	156.44	93	PKP	05	15.00	1.2						epP	54	44.00	26kmX	
CDR	148.20	275	ePKPd		05	05.50	3.5X			Z	20s		8.47um			6.6Msz						eS	58	19.00		
			i		05	12.90				S.D. = 1.4		on 170 of 261 obs.					CHG	21.39	261	eP	54	48.00	0.8	
BNI	148.31	278	PKP		05	06.70	4.4X		----------									0.9s		26.89nm			4.6mb	
LPG	148.47	279	ePKP		05	04.60	1.9			JAN	18,	1991	10h	49m	56.98±	0.74s	BDT	21.84	257	eP	54	54.00	2.2	
	1.0s		93.75nm							23.747 N	±	5.2km	121.290	E	±	5.2km	MDJ	21.90	16	eP	54	53.50	1.3	
LPL	148.49	279	ePKP		05	04.60	1.9			DEPTH =		8.6 ±	4.6 km					Z	16s		2.80um			4.8MszX	
RSL	148.63	279	PKP		05	05.08	2.2			5.0mb (	15	obs.)	5.5Msz (	1	obs.)						eS	58	52.00		
FEL	148.73	283	PKP		05	04.47	1.6			TAIWAN						(244)	GTA	23.96	316	P	55	13.00	0.3	
IFR	148.82	249	iPKP		05	06.50	3.0X			Mo=1.6*10**18 Nm (PPT).								6.0s		940.00nm			5.6mb	X
			i		05	10.00												Z	12s		2.50um			4.9MszX	
			i		05	15.00			TWD	0.43	40	iPc	50	05.80	0.0			E	12s		2.20um				
BBS	148.87	282	PKP		05	03.55	0.6		TWO	0.67	322	ePc	50	10.60	0.2						pP	55	20.50	27kmX	
HFS	148.92	308	ePKP		05	05.70	3.1X		TWK	0.88	237	iPc	50	13.00	-1.0						eS	59	26.00		
	0.6s		4.40nm						TWG	0.94	192	eP	50	13.60	-1.5						sS	59	39.00		
	Z	20s		3.90um			6.2Msz		TWC	1.00	31	ePc	50	16.40	0.4		PJG	24.48	110	eP	55	19.80	2.1	
			LR		56	03.00						eS	50	31.70			GUA	24.54	110	eP	55	19.00	0.7	
LOMF	149.24	282	PKP		05	04.05	0.4		ANP	1.45	8	iP	50	17.00	-6.5X			Z	20s		16.74um			5.5Msz	
TNS	149.38	288	ePKP		05	09.80	6.1X					eS	50	31.00			IPM	27.29	229	ePd	55	45.20	1.2	

```
                  e      55 57.00
GUN     32.07 285 P      56 26.06   -1.0
        0.8s     36.00nm          5.3mb
PKI     32.50 284 P      56 29.58   -1.1
        0.9s     15.00nm          4.9mb
KKN     32.61 285 P      56 30.02   -1.5
        0.9s     35.00nm          5.3mb
DMN     32.76 285 P      56 32.26   -0.7
GKN     33.17 285 P      56 35.40   -0.9
WMO     34.03 314 P      56 45.60    2.1
        1.5s    100.00nm          5.5mb
                  eS     02 04.00
NDI     39.68 287 e(PDIF 57 30.50   -0.8
WRA     45.25 163 P      58 18.40    1.7
ASPA    48.70 165 P      58 43.90    0.1
SMY     49.10  40 P      58 50.00    3.4X
MAIO    54.14 299 eP     59 27.00    2.1
TTA     65.84  30 P      00 44.00   -0.8
IMA     66.55  26 P      00 48.00   -1.4
        1.4s     14.20nm          5.0mb
FBA     69.15  27 P      01 04.00   -1.5
PMR     69.21  31 P      01 03.80   -2.1
SOD     70.10 336 eP     01 10.00   -1.2
KAF     71.58 330 iP     01 19.00   -1.3
        0.4s      4.50nm          4.9mb
MBC     73.66  13 eP     01 31.00   -1.4
VRI     76.38 314 ePc    01 48.00   -0.5
                  e      07 30.00
HFS     77.99 331 eP     01 55.70   -1.4
        0.6s      1.50nm          4.3mb
NB2     78.65 332 P      01 59.60   -1.2
        1.0s      6.00nm          4.6mb
KSP     80.83 322 eP     02 13.00    0.4
SKO     81.38 312 e(P)   02 13.00   -2.7
PRU     82.22 321 eP     02 20.00    0.1
CLL     82.46 323 eP     02 22.00    0.9
        1.9s     31.00nm          5.1mb
KHC     83.18 321 eP     02 25.30    0.4
YKA     83.33  23 eP     02 23.50   -1.9
        0.8s      2.40nm          4.5mb
MOX     83.55 323 e(P)   02 26.00   -0.7
GMW     88.67  38 P      02 52.00   -0.1
PNT     89.36  35 eP     02 56.00    0.7
LON     89.68  38 P      02 57.00    0.1
NEW     91.31  35 P      03 02.00   -2.4
        1.0s      5.00nm          4.8mb
LWI     93.17 269 iPc    03 17.00    3.2X
GOL    103.32  35 Pdiff  04 05.00    5.8X
GLD    103.36  35 Pdiff  04 05.00    5.7X
ANMO   106.13  39 Pdiff  04 20.00    8.3X
RSNY   110.51  12 Pdiff  04 40.00    9.2X
     S.D. = 1.3  on  60 of  71 obs.
-------------------------------------------
%  JAN  18, 1991  10h 54m 35.35± 0.84s
   23.678 N ± 7.2km   121.324 E ±10.0km
   DEPTH =  10.0km  (geophysicist)
 TAIWAN                              (244)

TWD      0.47  32 iPc    54 44.80   -0.1
                  eS     54 52.30
TWQ      0.74 323 eP     54 50.00    0.1
                  eS     55 01.10
TWK      0.87 242 iPc    54 52.00   -0.1
TWG      0.88 195 eP     54 52.40    0.1
TWC      1.04  27 ePc    54 55.10    0.1
ANP      1.51   7 iP     54 56.50   -6.0X
     S.D. = 0.1  on   5 of   6 obs.
-------------------------------------------
?  JAN  18, 1991  11h 32m 41.85± 1.80s
   52.014 S ±24.4km   138.570 E ±26.5km
   DEPTH =  10.0km  (geophysicist)
   4.6mb (  2 obs.)
 WEST OF MACQUARIE ISLAND            (701)

COO     23.57  30 eP     37 53.00   -0.2
RMQ     26.63  21 iPd    38 21.80   -0.4
                  i      38 27.00
BRS     26.81  29 iP     38 24.50    0.6
ASPA    28.53 351 eP     38 39.60    0.1
        0.7s      6.90nm          4.6mb
QIS     31.41   2 iPd    39 04.90   -0.2
WRA     32.18 353 P      39 12.00    0.1
        0.6s      5.50nm          4.7mb
CHG     78.53 322 eP     44 53.80    9.1X
GKN     92.60 314 P      46 00.00    5.3X
INK    136.17  32 ePKP   52 10.00    6.5X
YKA    141.20  45 ePKP   52 12.90    0.0
        0.7s      0.70nm
KHC    145.65 288 ePKP   52 33.50   12.4X
     S.D. = 0.4  on   7 of  11 obs.
-------------------------------------------
?  JAN  18, 1991  12h 38m 07.95± 2.46s
   45.844 N ±23.2km   150.557 E ±20.6km
   DEPTH =  85.8 ± 23.6 km
   3.8mb (  3 obs.)
 KURIL ISLANDS                       (221)

KUSJ     5.00 239 P      39 22.10    0.0
                  eS     40 15.00
ASAJ     5.87 256 eP     39 39.20    5.0X
HOOJ     6.27 239 eP     39 39.10   -0.5
                  eS     40 46.40
MRRJ     7.63 247 eP     40 00.60    2.3
                  eS     41 21.50
DFUJ     9.42 227 eP     40 20.80   -2.0
FBA     37.97  38 (P)    45 18.00   -0.4
YKA     52.70  36 eP     47 16.50    1.2
        0.4s      0.30nm          3.7mb
GUN     53.30 274 P      47 20.60    0.0
KKN     53.80 274 P      47 24.40    0.4
GKN     54.11 275 P      47 26.20   -0.1
WRA     67.11 197 P      48 55.00    0.8
        0.4s      1.30nm          4.2mb
NB2     68.50 340 P      49 00.90   -1.6
        0.4s      0.40nm          3.7mb
     S.D. = 1.4  on  11 of  12 obs.
-------------------------------------------
*  JAN  18, 1991  12h 40m 09.60± 0.96s
   23.705 N ± 9.1km   121.291 E ±10.9km
   DEPTH =  10.0km  (geophysicist)
   4.1mb (  2 obs.)
 TAIWAN                              (244)

TWD      0.47  37 iPc    40 18.80   -0.3
                  eS     40 25.20
TWK      0.86 240 iPc    40 25.30   -0.8
TWG      0.90 193 ePc    40 26.30   -0.6
TWC      1.03  29 iPc    40 28.90   -0.2
                  eS     40 43.90
ANP      1.49   8 eP     40 29.20   -7.3X
GZH      7.33 267 eP     42 03.90    4.7X
SSE      7.36 359 Pd     41 56.50   -3.2X
        1.0s     25.00nm          5.3mb X
                  eS     43 20.00
NJ2      8.59 346 Pc     42 17.00    0.1
                  pP     42 25.00
QIZ     11.63 249 eP     43 04.50    5.8X
                  eS     45 18.00
GYA     13.54 285 eP     43 24.00   -0.3
XAN     14.93 316 P      43 40.00   -2.5
LZH     19.48 313 eP     44 41.50    1.7
        2.0s     36.00nm          4.3mb
CHTO    21.38 261 P      45 01.80    2.2
YKA     B3.37  23 eP     52 38.70    0.7
        0.9s      0.60nm          3.8mb
     S.D. = 1.5  on  10 of  14 obs.
-------------------------------------------
?  JAN  18, 1991  12h 45m 54.21± 0.99s
   37.800 N ± 8.6km   14.940 E ± 8.0km
   DEPTH =  10.0km  (geophysicist)
 SICILY                              (398)

MNO      0.23 304 P      46 00.00    0.7
                  iSg    46 04.00
ATN      0.55  49 P      46 05.20   -0.1
                  eSg    46 13.60
MEU      0.70 181 P      46 08.20    0.1
                  eSg    46 18.30
GIB      0.75 285 P      46 08.20   -0.7
                  eSg    46 20.30
     S.D. = 1.0  on   4 of   4 obs.
-------------------------------------------
?  JAN  18, 1991  13h 20m 22.88± 6.26s
    3.655 N ±14.6km   77.036 W ±45.6km
   DEPTH =  76.9 ± 41.8 km
 NEAR WEST COAST OF COLOMBIA         (102)
     MD 2.5 (UVC).

ANCC     0.22 129 eP     20 34.50   -0.1
                  eS     20 43.30
HOQC     0.44 115 ePc    20 36.19   -0.1
CLMC     0.52  64 eP     20 37.15    0.2
SALC     0.76 153 eP     20 39.41    0.1
DIAC     0.91 113 eP     20 41.11    0.0
HOBC     1.14  52 eP     20 43.75   -0.1
     S.D. = 0.2  on   6 of   6 obs.
-------------------------------------------
%  JAN  18, 1991  14h 09m 15.37± 0.60s
   42.694 N ± 5.6km   19.161 E ± 4.5km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                          (383)
     ML 1.8 (TTG).

NKY      0.17 315 iPgd   09 19.72    0.4
                  iSg    09 22.88
TTG      0.27 164 iPgc   09 21.17    0.0
                  iSg    09 25.85
BDV      0.48 211 iPgc   09 25.47    0.4
                  iSg    09 32.53
BRY      0.50 295 iPgd   09 25.22   -0.3
                  iSg    09 34.33
HCY      0.55 244 iPgc   09 26.08   -0.4
                  iSg    09 35.28
IVA      0.57  72 iPgd   09 27.08    0.1
                  iSg    09 36.45
PVY      0.61  99 iPgc   09 27.47   -0.2
                  iSg    09 37.05
     S.D. = 0.4  on   7 of   7 obs.
-------------------------------------------
%  JAN  18, 1991  14h 16m 50.63± 0.91s
   40.012 N ± 7.4km   27.813 E ± 7.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
     MD 2.8 (ISK).

EDC      0.34   7 ePg    16 58.00    0.4
BNT      0.35  13 iPg    16 57.90    0.0
DST      0.75 123 iPg    17 05.70    0.4
                  eSg    17 16.70
EZN      1.16 261 iPn    17 12.10   -0.2
YLV      1.32  65 iPn    17 14.40   -0.6
     S.D. = 0.6  on   5 of   5 obs.
-------------------------------------------
?  JAN  18, 1991  14h 45m 18.70± 4.41s
    2.880 N ±14.1km   77.261 W ±39.1km
   DEPTH =  33.0km  (normal)
 NEAR WEST COAST OF COLOMBIA         (102)
     MD 2.9 (UVC).

SALC     0.57  81 ePc    45 30.29   -0.2
                  eS     45 39.60
ANCC     0.74  32 eP     45 32.55   -0.2
                  eS     45 43.60
HOQC     0.86  47 eP     45 34.44   -0.2
                  eS     45 46.90
PURC     1.06 122 eP     45 37.71    0.0
DIAC     1.14  69 eP     45 38.80    0.3
                  eS     45 54.50
CLMC     1.21  35 eP     45 39.90    0.3
     S.D. = 0.3  on   6 of   6 obs.
-------------------------------------------
?  JAN  18, 1991  16h 15m 23.98± 1.16s
   14.958 N ±27.8km   147.623 E ±20.6km
   DEPTH =  33.0km  (normal)
   4.1mb (  1 obs.)
 MARIANA ISLANDS REGION              (215)

GUA      2.98 242 eP     16 09.70   -0.4
                  eS     16 46.80
PJG      3.00 243 eP     16 10.70    0.4
WRA     37.06 201 P      22 33.00    0.0
        0.6s      1.70nm          4.1mb
KIC    145.37 306 PKP    35 01.00   -0.1
LIC    145.68 306 PKP    35 01.80    0.1
     S.D. = 0.4  on   5 of   5 obs.
-------------------------------------------
*  JAN  18, 1991  16h 52m 14.44± 2.30s
    9.904 N ±13.9km   92.993 E ±11.5km
   DEPTH = 100.8 ± 21.0 km
   4.3mb (  6 obs.)
 NICOBAR ISLANDS REGION              (704)

CHTO    10.57  32 P      54 45.50    1.1
KOD     15.29 273 eP     55 45.40   -1.0
GBA     15.67 285 Pc     55 52.30    1.5
        0.6s      2.80nm          3.7mb
PKI     18.97 339 P      56 31.52    0.5
DMN     19.12 338 P      56 32.16   -0.3
GUN     19.12 340 P      56 31.52   -1.1
KKN     19.22 339 P      56 32.34   -1.2
GKN     19.65 338 P      56 36.80   -1.1
```

18d 16h

	0.4s	8.00nm		4.4mb	
ASPA	52.08	130 iPd	01	15.50	-1.0
	0.4s	3.60nm		4.7mb	
NUR	70.83	331 eP	03	30.00	8.2X
SOD	71.91	338 eP	03	29.00	0.8
HFS	76.14	330 eP	03	52.40	-0.3
	0.4s	1.40nm		4.1mb	
LPG	80.39	315 eP	04	17.70	1.1
	0.7s	4.40nm		4.4mb	
LPL	80.40	315 eP	04	17.80	1.2
	0.8s	4.40nm		4.3mb	
	S.D. = 1.2	on 13 of 14 obs.			

JAN 18, 1991 18h 12m 10.23± 0.90s
43.395 N ± 5.3km 5.415 E ± 6.5km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
MD 2.5 (STR).

GELF	0.01	142 Pg	12	11.93	-0.2
BERF	0.22	112 Pg	12	15.08	0.1
TREF	0.23	354 Pg	12	14.70	-0.5
PUYF	0.25	56 Pg	12	15.08	-0.5
PRAF	0.45	336 Pg	12	19.89	0.5
VILF	0.51	25 Pg	12	19.96	-0.6
TAVF	0.52	64 Pg	12	20.34	-0.4
CALN	1.13	71 Pg	12	32.14	0.7
MVIF	1.36	68 Pn	12	35.30	0.0
		Sg	12	53.72	
REVF	1.46	76 Pn	12	37.19	0.5
TOUF	1.47	64 Pn	12	37.51	0.6
		Sg	12	57.62	
AURF	1.47	70 Pn	12	36.91	0.0
		Sg	12	57.38	
AUTN	1.58	67 Pn	12	38.97	0.4
		Sg	13	00.92	
SAOF	1.66	68 Pn	12	39.57	0.0
PGF	2.76	107 Pn	12	54.63	-0.8
	S.D. = 0.5	on 15 of 15 obs.			

? JAN 18, 1991 18h 36m 53.81± 0.99s
37.066 N ± 9.3km 29.523 E ± 8.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.1 (ISK).

ELL	0.44	136 ePg	37	02.50	-0.4
		eS	37	10.00	
BCK	0.94	65 ePn	37	12.40	0.7
YER	0.99	274 ePn	37	13.00	0.3
KHL	1.26	0 ePn	37	16.60	-0.6
	S.D. = 1.0	on 4 of 4 obs.			

• JAN 18, 1991 20h 28m 10.31± 1.10s
7.350 S ±10.8km 126.642 E ±13.4km
DEPTH = 341.8 ± 12.7 km
4.4mb (8 obs.)
BANDA SEA (280)

KUPT	4.09	227 eP	29	21.00	0.7
		eS	30	12.00	
MTN	7.03	141 iPd	29	52.60	-0.9
	0.4s	102.00nm		5.2mb X	
MBL	15.23	205 iPc	31	29.40	-0.9
	0.4s	12.00nm		4.6mb	
ASPA	17.66	158 iPd	31	55.60	-0.2
	0.3s	67.60nm		5.5mb X	
		iS	35	00.40	
		iPcS	37	30.50	
QIS	18.16	138 iPd	32	01.40	0.5
WARB	18.73	180 iPc	32	07.50	1.0
FORR	23.42	177 iPd	32	51.50	0.0
	0.4s	24.00nm		4.9mb	
CHTO	37.71	314 P	34	54.20	-1.6
LZH	48.23	335 eP	36	21.00	1.3
	1.0s	15.00nm		4.2mb	
GUN	52.72	313 P	36	53.72	0.1
	0.7s	21.00nm		4.6mb	
PKI	52.87	313 P	36	54.52	-0.2
	0.6s	6.00nm		4.1mb	
KKN	53.09	313 P	36	56.18	0.0
	0.6s	7.00nm		4.2mb	
DMN	53.11	313 P	36	56.50	0.1
	0.7s	10.00nm		4.3mb	
GKN	53.67	313 P	37	00.32	0.0
	0.5s	16.00nm		4.6mb	
	S.D. = 0.9	on 14 of 14 obs.			

• JAN 18, 1991 21h 14m 24.88± 0.89s
36.945 N ±11.2km 29.684 E ± 8.4km
DEPTH = 33.0km (normal)
TURKEY (366)
MD 3.3 (ISK).

ELL	0.27	137 iPg	14	32.50	0.1
		iSg	14	39.00	
BCK	0.89	54 ePn	14	40.70	-0.4
YER	1.14	280 iPn	14	45.00	0.4
KHL	1.38	355 iPn	14	48.70	0.6
CIN	1.43	298 eP	14	48.00	-0.8
	S.D. = 0.8	on 5 of 5 obs.			

% JAN 18, 1991 21h 45m 12.18± 0.90s
38.957 N ± 8.1km 27.724 E ±11.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

IZM	0.66	213 iPg	45	25.80	0.4
		eSg	45	35.30	
DST	0.95	47 iPn	45	31.40	1.0
EDC	1.39	4 ePn	45	37.00	-0.6
BNT	1.41	6 iPn	45	37.70	-0.1
KHL	1.54	114 ePn	45	39.20	-0.6
	S.D. = 1.0	on 5 of 5 obs.			

& JAN 18, 1991 21h 51m 38.39s
63.103 N 149.383 W
DEPTH = 91.9km
2.6mb (1 obs.)
CENTRAL ALASKA (1)
<AEIC>.

HUR	0.17	223 iP	51	51.52	1.6
		eS	52	01.37	
RND	0.39	38 eP	51	52.62	-0.2
		iS	52	03.59	
TRF	0.54	311 iP	51	54.05	0.0
		eS	52	06.09	
MCK	0.66	17 eP	51	54.67	-0.3
		eS	52	07.34	
CUT	0.81	211 iP	51	56.17	-0.2
		eS	52	09.44	
GHO	1.35	171 iP	52	02.65	-0.2
		eS	52	21.97	
PWA	1.48	189 eP	52	04.29	0.0
NEA	1.49	5 eP	52	03.24	-1.2
		eS	52	21.78	
SKT	1.50	222 iP	52	04.00	-0.7
		eS	52	24.01	
PLRM	1.52	175 eP	52	04.38	-0.5
		eS	52	25.77	
SCM	1.59	142 eP	52	05.26	-0.6
		eS	52	26.66	
HDA	1.70	38 eP	52	06.25	-0.9
		eS	52	27.29	
CCB	1.70	24 iP	52	06.05	-1.1
DDM	1.72	65 iP	52	07.56	0.0
		eS	52	29.74	
KNK	1.75	165 eP	52	07.30	-0.6
		eS	52	30.31	
SUA	1.76	202 eP	52	08.43	0.3
		eS	52	29.15	
PAX	1.79	93 eP	52	08.11	-0.4
		eS	52	31.35	
TOA	1.79	123 eP	52	08.64	0.2
SDG	1.86	106 eP	52	09.08	-0.2
PMS	1.87	183 eP	52	09.58	0.1
MDM	1.93	15 eP	52	09.20	-1.1
FBA	1.94	21 iP	52	09.22	-1.1
		eS	52	31.99	
NCG	2.14	219 eP	52	12.24	-1.0
CGLM	2.18	215 eP	52	13.21	-0.5
KLU	2.29	133 iP	52	13.67	-1.4
SPU	2.30	214 eP	52	14.39	-0.9
BGL	2.32	219 eP	52	15.27	-0.4
CKL	2.36	217 eP	52	15.44	-0.8
VLZ	2.44	143 iP	52	15.18	-1.9
GLI	2.48	153 eP	52	15.83	-1.8
SLKM	2.63	189 eP	52	19.19	-0.6
KNIM	2.87	163 eP	52	20.98	-2.1
RDT	2.92	211 eP	52	22.46	-1.2
SEW	3.01	181 eP	52	24.00	-0.9
RDN	3.05	213 eP	52	25.03	-0.6
GLB	3.09	120 eP	52	24.91	-1.2
CNPM	3.70	195 iP	52	33.38	-1.0
TGL	3.89	124 eP	52	36.52	-0.6
BALM	3.91	119 eP	52	35.66	-1.7
YKA	15.80	77 eP	55	16.20	-0.2
	0.7s	0.30nm		2.6mb	
	40 obs. associated				

• JAN 18, 1991 22h 28m 04.80± 0.82s
3.101 S ± 9.9km 130.605 E ±14.5km
DEPTH = 33.0km (normal)
5.1mb (7 obs.)
CERAM (272)

AAI	2.48	256 ePd	28	44.00	0.3
MTN	9.70	177 eP	30	24.00	-1.1
	0.3s	183.00nm		6.8mb X	
QIS	19.44	154 eP	32	33.00	1.3
ASPA	20.69	171 iPd	32	44.30	-0.6
	0.8s	76.20nm		5.1mb	
Z	23s	0.20um		3.4MszX	
		eS	36	31.90	
WARB	23.26	189 eP	33	11.00	0.5
PPI	30.31	274 eP	34	16.00	0.3
CHG	38.01	306 eP	35	23.00	1.1
GUN	52.93	309 P	37	20.08	-0.7
	0.8s	34.00nm		5.4mb	
PKI	53.14	308 P	37	23.14	0.8
	0.8s	8.00nm		4.8mb	
KKN	53.34	308 P	37	23.00	-0.7
	0.9s	20.00nm		5.1mb	
DMN	53.39	308 P	37	23.68	-0.4
	0.9s	28.00nm		5.2mb	
GKN	53.94	308 P	37	27.26	-0.7
	0.9s	31.00nm		5.3mb	
GBA	55.29	289 Pc	37	41.70	3.9X
	0.2s	1.00nm		4.5mb	
	S.D. = 0.9	on 12 of 13 obs.			

? JAN 18, 1991 22h 48m 23.20± 1.06s
37.070 N ±10.3km 29.458 E ± 8.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.6 (ISK).

ELL	0.48	131 iPg	48	32.50	-0.5
		eSg	48	40.00	
YER	0.94	274 iPn	48	41.60	0.4
BCK	0.98	66 iPn	48	42.90	1.0
KHL	1.25	2 ePn	48	45.70	-0.8
ALT	2.05	14 ePn	49	02.80	4.6X
	S.D. = 1.5	on 4 of 5 obs.			

JAN 18, 1991 22h 53m 09.22± 0.69s
23.657 N ± 4.2km 121.701 E ± 6.3km
DEPTH = 10.8 ± 3.6 km
4.8mb (13 obs.) 4.5Msz (2 obs.)
TAIWAN (244)

TWD	0.43	347 iPd	53	17.30	-0.8
		eS	53	23.30	
TWC	0.96	8 ePc	53	28.30	1.0
TWQ	1.00	308 ePc	53	27.70	-0.5
		eS	53	40.90	
TWG	1.01	215 ePc	53	28.40	0.1
		eS	53	43.40	
TWZ	1.44	356 eP	53	35.80	0.6
ANP	1.53	354 iP	53	30.20	-6.4X
		eS	53	46.70	
QZH	3.11	295 Pnc	53	58.00	-1.1
		Sn	54	34.40	
CVP	5.92	179 ePd	54	41.00	2.0
SSE	7.42	357 Pc	55	00.50	0.4
	1.0s	37.00nm		5.5mb	
Z	14s	4.40um		3.8Msz	
E	12s	9.60um			
		eS	56	20.00	
GZH	7.70	267 eP	55	01.00	-3.0X
NJ2	8.73	344 Pc	55	15.30	-3.1X
	0.8s	200.00nm		6.5mb X	
		sP	55	31.20	
		S	56	51.40	
WHN	9.48	318 P	55	28.50	-0.2
		S	57	13.00	
QIZ	11.97	250 eP	56	04.40	1.6
N	13s	2.90um			
E	13s	1.60um			

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Part 2 of 2
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U. S. DEPARTMENT OF THE INTERIOR

Geological Survey

EARTHQUAKE DATA REPORT

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

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

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

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

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

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

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

Hypocenter Symbols

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

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

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

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

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

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

References

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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.

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

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			eS	58	17.00	
TIA		13.12	343 eP	56	20.70	2.5X
	N	11s	1.90um			
	E	11s	5.20um			
GYA		13.91	285 P	56	28.00	-0.8
	N	10s	6.40um			
	E	10s	1.90um			
PPR		14.09	192 ePd	56	40.20	9.2X
DL2		15.20	360 eP	56	47.00	1.6
	Z	12s	1.20um		5.0Msz	
XAN		15.23	316 P	56	45.00	-0.9
TIY		16.10	333 eP	57	01.00	3.8X
BJI		16.99	345 eP	57	11.00	2.7X
		2.0s	48.00nm		4.3mb	
	Z	12s	0.90um		4.7MszX	
	E	10s	1.46um			
			eS	00	20.00	
KMI		17.34	279 Pd	57	16.50	3.5X
		4.0s	500.00nm		5.0mb X	
	Z	10s	5.20um		4.2Msz	
			sP	57	26.00	
CD2		17.50	298 eP	57	14.50	-0.4
SNY		18.19	4 eP	57	25.00	1.7
	Z	12s	1.80um			
	E	13s	3.80um			
			pP	57	32.00	
HHC		19.14	336 eP	57	37.00	1.9
	Z	12s	2.00um			
	N	10s	1.10um			
	E	10s	1.00um			
BTO		19.54	333 eP	57	41.00	1.1
	N	10s	3.10um			
	E	10s	1.50um			
			sP	57	47.00	
			eS	01	20.00	
LOE		19.70	255 eP	57	42.00	0.3
LZH		19.79	313 Pd	57	43.20	0.5
		6.0s	850.00nm		5.2mb X	
			pP	57	50.50	28kmX
			sP	57	55.50	
CN2		20.33	8 eP	57	47.00	-1.1
	Z	13s	2.70um		4.8MszX	
	N	13s	1.00um			
	E	13s	1.00um			
			epP	57	53.00	22kmX
			eS	01	29.00	
CHG		21.74	262 eP	58	03.10	0.4
MDJ		21.88	15 eP	58	02.50	-1.4
	Z	14s	1.30um		4.5MszX	
BDT		22.19	258 eP	58	08.00	0.9
GTA		24.29	315 eP	58	28.30	0.5
		4.0s	420.00nm		5.4mb X	
	Z	15s	1.50um		4.6MszX	
	N	10s	1.00um			
			pP	58	36.40	29kmX
			sS	02	52.00	
LSA		27.90	289 eP	59	04.40	2.5X
	N	14s	1.30um			
WMO		34.36	314 P	00	03.00	4.7X
NDI		40.07	287 eP	00	38.00	-8.4X
GBA		42.97	265 P	01	16.00	5.7X
		0.8s	3.20nm		4.1mb	
QIS		47.28	157 eP	01	44.00	-0.7
ASPA		48.51	165 iPd	01	53.50	-0.7
		0.8s	7.60nm		4.8mb	
QUE		48.87	290 eP	02	01.20	4.0X
SVO		49.51	127 eP	02	10.00	8.0X
WARB		49.78	174 eP	02	03.00	-0.9
MAIO		54.51	299 eP	02	40.00	0.5
FBA		69.06	27 P	04	16.40	-0.4
INK		73.54	22 eP	04	43.00	-0.6
MBC		73.67	13 eP	04	45.00	0.8
HFS		78.25	331 eP	05	10.00	-0.4
		0.7s	1.40nm		4.1mb	
NAO		79.18	332 P	05	14.20	-1.2
		0.8s	2.20nm		4.2mb	
YKA		83.27	23 eP	05	36.00	-0.9
		0.8s	4.90nm		4.8mb	
LPG		89.34	320 ePKP	06	07.10	-0.4
		0.7s	4.40nm		4.8mb	
LPL		89.34	320 eP	06	06.90	-0.5
PGF		89.58	317 eP	06	10.30	1.8
		0.7s	7.70nm		5.1mb	
LOR		89.97	323 eP	06	08.90	-1.2
		0.9s	6.55nm		4.9mb	
	Z	20s	0.17um		4.5Msz	
LBF		90.07	323 eP	06	09.70	-0.9
		0.7s	4.40nm		4.8mb	
SSF		90.29	323 eP	06	10.60	-0.9
SMF		90.35	322 eP	06	10.90	-0.9
AVF		90.53	323 eP	06	11.00	-1.6
MAF		91.31	323 eP	06	15.60	-0.6
RJF		92.45	322 eP	06	22.50	1.0
		1.0s	8.00nm		5.1mb	
	Z	20s	0.15um		4.4Msz	
FFC		93.42	24 eP	06	27.00	1.2
		0.8s	6.00nm		5.1mb	
ZOBO		168.20	53 ePKP	13	19.00	0.8
			e	14	26.00	

S.D. = 1.0 on 46 of 60 obs.

JAN 18, 1991 22h 56m 51.44± 0.44s
45.957 N ± 3.9km 2.815 E ± 4.4km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.7 (LDG).

PYM		0.25	147 Pg	56	55.81	-0.9
			Sg	56	59.10	
MAF		0.32	327 Pg	56	57.60	-0.4
			Sg	57	02.10	
TCF		0.54	308 Pg	57	01.60	-0.7
			Sg	57	08.50	
PLDF		0.56	88 Pg	57	02.63	-0.3
			Sg	57	09.56	
BGF		0.60	2 Pg	57	02.90	-0.7
			Sg	57	11.10	
LBL		0.79	157 Pg	57	05.88	-0.8
			Sg	57	16.05	
AVF		0.91	24 Pg	57	08.70	-0.2
			Sg	57	20.30	
LSF		0.94	289 Pg	57	08.90	-0.5
			Sg	57	21.90	
SMF		0.99	46 Pg	57	10.50	0.3
			Sg	57	23.80	
RJF		1.12	235 Pn	57	10.80	-1.7
			Pg	57	12.20	
			Sg	57	27.20	
CAF		1.16	207 Pg	57	12.80	-0.3
			Sg	57	28.30	
SSF		1.20	23 Pg	57	14.10	0.2
			Sg	57	29.90	
LBF		1.30	38 Pg	57	15.90	0.3
			Sg	57	33.00	
SSB		1.39	119 Pg	57	17.21	0.3
			Sg	57	35.09	
LOR		1.50	28 Pg	57	19.40	1.0
			Sg	57	38.50	
LPO		1.72	223 Pg	57	23.50	2.0
			Sg	57	46.20	
LFF		1.78	236 Pg	57	24.60	2.2
			Sg	57	48.10	

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

• JAN 19, 1991 00h 18m 54.84± 0.87s
15.701 N ± 9.9km 122.788 E ±13.7km
DEPTH = 33.0km (normal)
4.2mb (2 obs.)
PHILIPPINE ISLANDS REGION (248)

BAG		2.24	289 eP	19	29.00	-1.5
			eS	19	53.00	
PGP		2.82	219 iPc	19	39.00	0.5
			iS	20	29.00	
SZP		2.90	310 iPd	19	40.00	0.3
			iS	20	16.00	
PIP		3.33	322 iPc	19	48.50	2.6X
PLP		4.99	154 eP	20	15.00	5.6X
BJI		24.93	348 P	24	16.00	-0.4
LZH		26.41	324 e(P)	24	32.50	2.0
	Z	23s	0.46um		4.0MszX	
ASPA		40.61	164 eP	26	33.30	-0.1
		0.5s	4.00nm		4.4mb	
WARB		41.80	175 eP	26	43.00	-0.1
YKA		90.16	23 eP	31	52.10	-0.8
		0.8s	0.60nm		3.9mb	

S.D. = 1.2 on 8 of 10 obs.

JAN 19, 1991 00h 39m 39.67± 0.30s
25.683 S ± 3.9km 70.155 W ± 7.4km
DEPTH = 71.1km (3 depth phases)
4.8mb (7 obs.)
NEAR COAST OF NORTHERN CHILE (122)

RTLL		5.82	166 eP	41	05.00	-0.4
RTCB		5.90	169 eP	41	05.70	-0.9
CFA		6.14	165 iPc	41	09.50	-0.3
RTCV		6.32	167 e(P)	41	11.60	-0.7
MDZ		7.26	171 eP	41	24.60	-0.8
			i	41	25.40	
			i(S)	42	48.20	
IHA		7.43	190 eP	41	33.50	5.9X
			e(S)	43	10.00	
FCH		7.62	181 eP	41	27.30	-3.3X
SAN		7.76	183 eP	41	33.00	0.8
			i	42	54.00	
LCCH		7.86	189 eP	41	35.00	1.4
			i	43	03.00	
PCH		7.92	182 eP	41	30.30	-4.1X
TACH		7.97	185 eP	41	29.50	-5.6X
LNV		8.32	187 eP	41	33.50	-6.3X
CNCB		9.06	13 P	41	50.20	-0.4
CCH		9.06	25 P	41	57.50	7.1X
ARE		9.26	352 eP	41	49.00	-4.1X
			iS	43	30.00	
LPB		9.30	12 P	41	55.00	1.2
ZOBO		9.56	12 P	41	55.00	-2.4
			S	44	48.00	
NNA		15.01	334 eP	43	09.50	0.2
		1.0s	15.00nm		4.2mb	
PPD		17.61	82 eP	43	41.90	0.0
			e	43	43.70	
			e	43	56.20	
			e	44	02.60	
VAO		21.29	88 eP	44	22.80	0.5
			e	44	34.60	48kmX
			e	44	42.00	
BAO		22.99	69 ePc	44	38.70	-0.5
SOB1		32.25	65 eP	46	06.60	2.9X
			e	46	19.20	49kmX
			e	46	24.30	
SPA		64.47	180 iPd	50	10.50	-0.3
		1.0s	11.00nm		4.8mb	
			i	50	27.80	65km
TUL		65.88	337 iPc	50	18.50	-1.3
		0.8s	13.10nm		4.9mb	
ALQ		69.41	329 eP	50	42.30	0.0
		0.9s	7.77nm		4.6mb	
ANMO		69.41	329 P	50	41.00	-1.3
LIC		70.68	73 P	50	51.10	0.9
TIC		70.89	73 P	50	52.80	1.3
KIC		70.99	73 Pc	50	53.30	1.2
		0.8s	13.00nm		4.9mb	
GOL		72.87	332 P	51	03.80	0.7
BAR		73.02	320 eP	51	04.00	0.2
PLM		73.62	321 eP	51	08.00	0.6
TPC		73.71	322 eP	51	09.00	1.2
KUK		74.70	75 eP	51	11.00	-2.9X
GSC		75.01	322 eP	51	16.00	0.7
SBB		75.14	321 eP	51	16.00	0.0
			e	51	36.00	75km
CLC		75.82	322 eP	51	20.00	0.1
BLF		83.03	119 iP	52	14.00	14.9X
		0.9s	815.38nm			
			i	52	25.00	35kmX
SEK		84.51	119 iP	52	23.00	16.4X
KSR		85.00	116 eP	52	08.50	-0.6
BPI		85.78	117 eP	52	30.00	17.0X
SLR		86.17	117 iP	52	34.00	19.1X
BCAO		90.72	85 iPc	52	39.90	3.5X
		0.8s	7.00nm		5.0mb	
			ic	53	00.50	74km
YKA		94.74	341 eP	52	53.00	-0.8
		0.9s	1.50nm		4.4mb	
ASPA		125.69	207 ePKP	58	33.50	-1.7
		0.7s	4.80nm			
WRA		128.78	210 PKP	58	41.00	-0.2
		1.0s	3.20nm			
GBA		147.29	105 PKP	59	16.00	1.2
HYB		149.81	100 ePKP	59	24.50	5.8X
			e	59	39.00	

S.D. = 1.0 on 33 of 48 obs.

• JAN 19, 1991 00h 57m 07.98± 1.04s
40.651 N ±12.7km 76.134 E ±13.6km
DEPTH = 33.0km (normal)
KIRGHIZ-XINJIANG BORDER REGION (320)

OUE		12.84	218 eP	00	11.10	0.1
			e	02	17.00	
GKN		14.43	148 P	00	31.02	-0.9

19d 01h

KKN	14.88	147	P	00 38.24	0.3	
DMN	14.97	148	P	00 38.20	-0.9	
GUN	15.03	145	P	00 40.92	0.9	
PKI	15.13	147	P	00 41.74	0.5	
SOD	37.86	331	eP	04 39.00	16.1X	
KEV	38.59	335	eP	04 29.00	0.0	
NAO	43.83	320	P	05 31.20	19.0X	
	0.7s		1.70nm			
	S.D. = 0.8		on 7 of 9 abs.			

& JAN 19, 1991 01h 53m 32.81s
60.582 N 153.028 W
DEPTH = 141.6km
2.8mb (1 obs.)
SOUTHERN ALASKA (2)
<AEIC>.

NCT	0.05	113	iP	53 51.33	0.7	
			eS	54 05.36		
RDN	0.15	117	iP	53 51.36	0.6	
			eS	54 05.47		
RS2	0.18	132	eP	53 51.79	0.9	
RSO	0.18	131	iP	53 51.82	0.9	
REF	0.19	120	iP	53 51.44	0.5	
RED	0.21	142	iP	53 51.43	0.6	
RDT	0.31	91	iP	53 51.77	0.7	
INE	0.52	182	eP	53 52.85	-0.9	
CKL	0.70	28	iP	53 53.99	-0.8	
			eS	54 10.70		
BGL	0.75	24	eP	53 54.45	-0.7	
SPU	0.77	38	eP	53 54.23	-1.0	
CGLM	0.88	34	iP	53 55.25	-0.9	
NKA	0.90	79	eP	53 57.33	1.2	
NCG	0.93	27	eP	53 55.72	-0.9	
OPT	0.94	186	eP	53 56.48	-0.1	
PDB	0.99	217	iP	53 56.37	-0.6	
			iS	54 13.82		
NNL	1.02	121	iP	53 57.25	0.0	
HOM	1.16	143	eP	53 58.16	-0.3	
			iS	54 18.19		
BRLK	1.35	127	eP	53 59.89	-0.6	
			eS	54 19.89		
SVW	1.38	294	iP	53 59.47	-1.3	
SLKM	1.39	92	eP	53 59.38	-1.5	
			eS	54 20.19		
CNPM	1.39	139	eP	54 00.02	-0.9	
			eS	54 20.91		
SUA	1.42	51	iP	54 00.45	-0.9	
			eS	54 21.60		
MCNL	1.55	206	iP	54 02.25	-0.4	
			eS	54 24.79		
SKT	1.58	27	iP	54 02.16	-0.8	
CDD	1.69	191	eP	54 03.96	-0.2	
PMS	1.82	67	eP	54 04.23	-1.5	
			eS	54 28.92		
SEW	1.84	104	eP	54 04.28	-1.6	
PWA	1.87	54	eP	54 04.89	-1.3	
			eS	54 30.34		
SYI	2.00	170	eP	54 07.18	-0.7	
			eS	54 32.80		
PLRM	2.15	60	eP	54 07.45	-2.1	
CUT	2.26	35	eP	54 09.79	-1.2	
			eS	54 38.02		
GHO	2.32	57	eP	54 09.70	-2.1	
			eS	54 39.25		
KNK	2.38	68	eP	54 10.14	-2.4	
			eS	54 39.46		
KNIM	2.63	93	eP	54 12.54	-3.1	
			eS	54 44.21		
HUR	2.89	32	eP	54 18.06	-1.0	
			eS	54 50.88		
GLI	2.93	82	eP	54 17.87	-1.6	
			eS	54 50.77		
VLZ	3.32	78	iP	54 22.16	-2.4	
			eS	55 00.84		
RND	3.45	33	eP	54 23.90	-2.5	
KLU	3.58	72	eP	54 25.40	-2.6	
			eS	55 06.54		
TOA	3.64	62	eP	54 27.65	-1.2	
			eS	55 10.14		
SDG	4.08	58	eP	54 33.10	-1.5	
PAX	4.32	53	eP	54 36.45	-1.4	
NEA	4.41	23	eP	54 36.28	-2.7	
DDM	4.65	43	eP	54 42.02	-0.3	
CCB	4.74	28	eP	54 41.14	-2.3	
HDA	4.76	34	eP	54 41.41	-2.3	
MDM	4.91	25	eP	54 43.04	-2.8	
FBA	4.96	27	eP	54 43.55	-2.8	
TGL	5.02	84	eP	54 45.92	-1.4	
BALM	5.25	80	eP	54 48.97	-1.5	
YAH	5.59	87	eP	54 53.77	-1.3	
CTGM	5.74	81	eP	54 56.03	-1.1	
YKA	18.23	67	eP	57 35.50	-1.9	
	0.4s		0.20nm		2.8mb	
	54 obs. associated					

• JAN 19, 1991 02h 08m 52.47± 0.69s
3.410 S ±14.4km 12.122 W ±13.4km
DEPTH = 10.0km (geophysicist)
5.0mb (10 obs.) 5.0Msz (1 obs.)
NORTH OF ASCENSION ISLAND (407)

BCAO	31.61	76	ePd	15 18.00	0.0	
	0.8s		18.00nm		5.0mb	
			id	15 20.10		
AVE	36.78	7	iP	16 10.00	7.8X	
IFR	37.32	10	eP	16 07.00	0.0	
BAO	37.33	249	ePd	16 07.50	0.3	
LWI	40.89	89	ePc	16 44.40	7.4X	
PPD	42.28	241	eP	16 48.00	-0.1	
KRI	43.08	111	iPc	16 54.00	-0.9	
BLF	44.43	129	iPc	17 06.50	0.8	
SLR	44.67	124	iPc	17 11.00	3.3X	
	1.0s		30.00nm		5.1mb	
LPG	51.51	17	eP	18 02.60	1.8	
	1.3s		25.25nm		5.0mb	
LPL	51.52	17	eP	18 02.70	1.9	
	1.3s		18.05nm		4.8mb	
SSF	52.11	13	eP	18 10.10	5.2X	
BSF	53.66	16	eP	18 16.90	0.4	
	1.3s		21.65nm		5.0mb	
HAU	53.70	15	eP	18 17.10	0.4	
CDF	54.32	16	eP	18 15.10	-6.3X	
SQTA	54.44	19	eP	18 20.00	-2.3	
	1.2s		27.10nm		5.2mb	
			i	18 27.60		
BEO	56.14	27	eP	18 34.00	-0.5	
KHC	56.89	20	eP	18 45.90	6.0X	
ZST	57.39	23	eP	18 48.20	4.8X	
			e	42 27.90		
SRO	57.55	24	eP	18 43.00	-1.5	
MOX	57.57	18	eP	18 50.00	5.3X	
PRU	57.95	20	eP	18 44.00	-3.3X	
			e	19 00.00		
CLL	58.58	18	eP	18 56.00	4.3X	
	2.0s		39.00nm		5.1mb	
KSP	59.27	21	eP	19 02.00	5.5X	
SPC	59.43	24	eP	19 05.50	5.6X	
			e	42 31.50		
KRA	59.99	23	eP	19 06.30	4.8X	
	Z 18s		1.00um		5.0Msz	
	E 18s		1.40um			
			e	19 17.30		
NAO	66.49	12	P	19 48.80	4.6X	
	1.2s		10.70nm		4.9mb	
NUR	69.86	18	eP	20 09.00	3.8X	
QUE	82.28	59	eP	21 17.00	0.8	
TUL	86.86	306	e(P)	21 36.80	-2.1	
MEO	89.02	305	e(P)	21 50.50	1.2	
FFC	92.68	324	eP	22 08.00	2.2	
	1.3s		29.00nm		5.5mb	
YKA	98.77	333	eP	22 31.10	-2.3	
	1.3s		1.80nm		4.6mb	
WRA	139.71	127	PKP	28 28.00	4.6X	
	0.9s		1.20nm			
	S.D. = 1.5		on 18 of 34 abs.			

• JAN 19, 1991 02h 32m 31.53± 0.78s
3.265 S ±11.4km 12.151 W ±13.7km
DEPTH = 10.0km (geophysicist)
4.5mb (2 obs.)
NORTH OF ASCENSION ISLAND (407)

			LR	00 46.00		
KHC	56.76	20	eP	42 25.40	7.3X	
SRO	57.43	24	eP	42 22.40	-0.4	
MOX	57.44	18	eP	42 23.00	0.2	
CLL	58.45	18	eP	42 36.00	6.2X	
NAO	66.35	12	P	43 19.80	-2.6	
	0.9s		2.90nm		4.5mb	
MAIO	77.25	52	eP	44 29.00	0.9	
TUL	86.75	306	e(P)	45 17.60	0.2	
YKA	98.63	333	eP	46 12.30	0.5	
	1.2s		1.60nm		4.5mb	
WRA	139.82	126	PKP	52 04.00	1.4	
	0.9s		0.90nm			
	S.D. = 1.0		on 13 of 18 abs.			

? JAN 19, 1991 02h 45m 12.86± 0.99s
37.058 N ± 9.3km 29.520 E ± 8.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.2 (ISK).

ELL	0.44	135	iPg	45 21.50	-0.3	
			iSg	45 29.00		
BCK	0.94	64	iPn	45 31.50	0.6	
YER	0.99	275	ePn	45 32.00	0.3	
KHL	1.26	0	ePn	45 35.80	-0.6	
	S.D. = 1.0		on 4 of 4 abs.			

JAN 19, 1991 03h 06m 34.76± 0.56s
4.903 S ± 8.1km 131.552 E ±10.7km
DEPTH = 17.6km (2 depth phases)
5.1mb (10 obs.)
BANDA SEA (280)

AAI	3.56	290	ePd	07 32.00	1.6	
			eS	08 13.50		
MTN	7.90	183	iPd	08 32.30	0.6	
PMG	16.11	107	eP	10 22.00	-0.1	
OIS	17.42	154	iPc	10 38.00	-0.6	
	0.8s		90.00nm		5.0mb	
			iS	13 42.10		
ASPA	18.79	173	iPd	10 54.10	-1.5	
	0.6s		91.30nm		5.2mb	
	Z 23s		0.30um		4.1Msz	
			eS	14 12.70		
MBL	19.76	214	iPd	11 06.30	-0.6	
	0.4s		15.00nm		4.7mb	
PGP	21.10	330	eP	11 25.00	4.2X	
WARB	21.68	192	eP	11 28.50	1.8	
			eS	15 25.00		
FORR	26.01	187	eP	12 09.00	0.4	
	0.4s		34.00nm		5.4mb	
MRWA	28.32	210	eP	12 29.00	-0.7	
	0.4s		3.00nm		4.4mb	
BRS	30.15	140	iPc	12 46.60	0.4	
BFD	33.66	164	eP	13 18.00	1.3	
CHG	39.84	307	eP	14 09.90	0.7	
CHTO	39.84	307	P	14 09.50	0.3	
			pP	14 15.50	20km	
LZH	48.34	330	eP	15 20.50	2.9	
	2.0s		25.00nm		4.9mb	
			pP	15 25.00	15km	
			sP	15 29.00		
CN2	48.79	354	eP	15 28.00	7.3X	
G'A	52.93	329	eP	15 57.00	4.6X	
GUN	54.79	309	P	16 05.86	-0.7	
	0.7s		50.00nm		5.7mb	
PKI	54.99	309	P	16 06.98	-1.1	
KKN	55.19	309	P	16 08.42	-1.0	
	0.7s		25.00nm		5.3mb	
DMN	55.24	308	P	16 09.04	-0.7	
	0.9s		37.00nm		5.4mb	
GKN	55.79	309	P	16 12.90	-0.7	
KOD	55.92	286	eP	16 14.30	-0.6	
GBA	56.77	290	Pd	16 18.80	-1.8	
	0.8s		6.20nm		4.7mb	
WMQ	62.52	326	eP	16 59.70	-0.1	
CNCB	151.05	139	PKP	26 32.50	8.6X	
LPB	151.17	138	PKP	26 41.00	17.1X	
ZOBO	151.34	138	PKP	26 33.00	8.6X	
	S.D. = 1.2		on 22 of 28 abs.			

% JAN 19, 1991 03h 07m 45.43± 0.96s
45.700 N ± 9.7km 26.768 E ± 9.5km
DEPTH = 33.0km (normal)
ROMANIA (358)

ZOBO	56.47	253	P	42 11.00	-6.1X	

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VRI      0.17 350 iPd    07 51.50  -0.3
CVO      0.43 287 ePd    07 55.50   0.4
ISR      0.58 196 eP     07 57.00  -0.3
MLR      0.61 251 iPd    07 57.00  -0.8
                  e      10 23.00
                  e      11 35.00
CMP      1.29 251 iPc    08 08.00   0.7
TLB      1.43 141 ePd    08 09.50   0.3
     S.D. = 0.7  on    6 of    6 obs.
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?  JAN  19, 1991  03h 08m 07.23± 2.52s
   4.764 N ±24.9km    76.146 W ±27.5km
   DEPTH = 110.0km  (geophysicist)
 COLOMBIA                          (103)
      MD 3.3 (UVC).

HOBC     0.41 179 eP     08 23.77  -0.1
                  eS     08 36.20
CLMC     0.97 205 ePc    08 29.31   0.7
                  eS     08 45.90
HOOC     1.38 201 eP     08 32.94  -0.3
                  eS     08 52.20
ANCC     1.43 210 eP     08 33.23  -0.4
DIAC     1.46 182 ePc    08 34.03  -0.1
                  eS     08 54.10
SALC     1.86 197 eP     08 39.28   0.2
SILC     2.07 185 eP     08 42.04   0.0
PURC     2.44 185 eP     08 47.05   0.1
                  eS     09 16.90
     S.D. = 0.4  on    8 of    8 obs.
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%  JAN  19, 1991  03h 10m 17.71± 1.51s
   39.783 N ±11.8km    28.969 E ±10.7km
   DEPTH = 10.0km  (geophysicist)
 TURKEY                            (366)
      MD 2.5 (ISK).

DST      0.32 236 iPg    10 24.30   0.0
                  iSg    10 29.10
YLV      0.84  21 ePg    10 33.50  -0.5
BNT      0.99 306 iPg    10 36.50   0.0
                  eSg    10 50.00
EDC      1.02 304 iPg    10 37.00   0.0
HRT      1.17  27 iPn    10 40.00   0.5
     S.D. = 0.5  on    5 of    5 obs.
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   JAN  19, 1991  03h 12m 04.13± 0.45s
   45.670 N ± 6.6km     6.102 E ± 3.8km
   DEPTH =  5.0km  (geophysicist)
 FRANCE                            (538)
      ML 2.7 (LDG).

RSL      0.37  87 Pg     12 11.44  -0.1
                  Sg     12 16.09
LPL      0.47 109 Pg     12 12.90  -0.6
                  Sg     12 18.50
LPG      0.49 110 Pg     12 13.10  -0.8
                  Sg     12 19.00
BNI      0.74 147 P      12 18.90   0.0
                  eSg    12 27.10
SSB      1.17 251 Pn     12 26.09  -0.3
                  Sg     12 41.86
ORO      1.32  91 P      12 30.50   1.5
                  eSg    12 49.00
DOI      1.42 145 P      12 31.30   0.6
                  eSg    12 47.60
SMF      1.85 303 Pn     12 37.50   0.7
                  Pg     12 40.60
                  Sg     13 04.30
LBF      1.97 313 Pg     12 43.00   4.4X
                  Sg     13 08.60
SBF      2.04 152 Pg     12 42.20   2.6X
                  Sg     13 08.30
AVF      2.21 301 Pg     12 47.10   5.1X
BSF      2.21  12 Pg     12 46.90   4.7X
                  Sg     13 16.80
LOR      2.23 317 Pg     12 46.90   4.6X
                  Sg     13 15.70
HAU      2.34   4 Pn     12 43.30  -0.6
                  Pg     12 49.50
                  Sg     13 20.30
BGF      2.43 293 Pn     12 45.40   0.2
                  Pg     12 51.20
                  Sg     13 22.00
MAF      2.53 284 Pg     12 53.00   6.5X
                  Sg     13 23.40
TCF      2.78 284 Pg     12 50.40   0.2
CAF      2.95 257 Pg     13 00.20   7.7X
                  Sg     13 36.60
LSF      3.24 282 Pn     12 56.00  -0.7
RJF      3.25 265 Pg     13 06.20   9.5X
                  Sg     13 47.80
     S.D. = 0.8  on   12 of   20 obs.
-------------------------------------
&  JAN  19, 1991  03h 25m 09.30s
   37.743 N          122.147 W
   DEPTH =  2.0km
 CENTRAL CALIFORNIA                ( 39)
      <BRK>. ML 2.5 (BRK).
      Mo=3.6*10**13 Nm (BRK).

BKS      0.15 332 iPd    25 12.40   0.1
BRK      0.16 326 iPc    25 12.40  -0.1
                  iS     25 14.80
ZSP      0.22 337 iPd    25 14.02   0.3
                  iS     25 17.84
PCC      0.31 218 iPd    25 15.51   0.1
MHC      0.57 135 eP     25 20.50  -0.1
                  eS     25 27.80
ARN      0.63 129 eP     25 21.30  -0.5
GCC      0.72 170 iPc    25 23.01  -0.7
SAO      1.13 150 iP     25 29.90  -1.2
CMB      1.42  78 eP     25 34.20  -2.0
                  eS     25 52.80
LLA      1.48 139 eP     25 36.30  -0.7
     10 obs. associated
-------------------------------------
?  JAN  19, 1991  03h 48m 35.64± 4.33s
   34.409 N ±38.7km    24.986 E ±11.1km
   DEPTH =  10.0km  (geophysicist)
 CRETE                             (370)
      MD 3.7 (ATH).

NPS      1.00  31 ePb    48 54.50   0.0
VAM      1.19 327 ePb    48 57.80   0.0
                  eSb    49 15.00
KAP      2.13  57 ePn    49 11.70   0.0
VLI      2.85 325 ePn    49 21.90   0.0
     S.D. = 0.0  on    4 of    4 obs.
-------------------------------------
%  JAN  19, 1991  04h 00m 54.53± 0.60s
   42.154 N ± 4.5km    12.965 E ± 6.1km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                     (381)

MNS      0.31 317 P      01 01.10   0.0
                  eSg    01 06.50
AOU      0.38  58 P      01 03.10   0.7
                  eSg    01 08.50
RMP      0.39 210 P      01 03.00   0.4
                  eSg    01 09.60
RDP      0.44 205 P      01 03.40  -0.1
                  eSg    01 10.00
SDI      0.78 125 P      01 09.10  -0.6
                  eSg    01 21.80
ASS      0.94 346 P      01 12.50   0.0
                  eSg    01 26.80
ARV      1.34 359 P      01 18.80  -0.5
                  eSg    01 36.40
     S.D. = 0.6  on    7 of    7 obs.
-------------------------------------
   JAN  19, 1991  04h 09m 46.42± 0.85s
   39.949 N ± 8.4km    20.681 E ± 8.6km
   DEPTH =  5.0km  (geophysicist)
 GREECE-ALBANIA BORDER REGION      (392)
      MD 3.0 (ATH).

KEK      0.72 251 ePg    10 00.50  -0.3
                  eSg    10 11.90
KZN      0.91  66 ePb    10 05.00   0.7
OHR      1.17   4 ePg    10 08.00  -0.7
     0.7s     72.00nm
EVR      1.35 139 ePb    10 10.30  -1.6
VLS      1.77 182 ePn    10 19.30   1.4
VAY      1.99  46 ePn    10 21.40   0.4
                  iSg    10 25.90
                  Lg     10 34.70
     S.D. = 1.4  on    6 of    6 obs.
-------------------------------------
?  JAN  19, 1991  04h 21m 00.35± 0.95s
   17.922 S ±13.0km   178.250 W ±19.8km
   DEPTH = 550.0km  (geophysicist)
   4.7mb (  5 obs.)
 FIJI ISLANDS REGION               (181)

NOZ     20.87 188 eP     25 07.90   2.5
                  eS     26 21.50
THZ     24.94 196 eP     25 41.70  -0.5
KHZ     25.40 194 P      25 45.40  -0.7
     0.3s    14.00nm          5.1mb
LTZ     26.06 196 P      25 51.10  -0.9
MMCZ    28.99 199 P      26 17.10  -0.5
MHZ     29.00 198 P      26 17.20  -0.5
WRA     44.78 260 P      28 27.00   0.0
     0.4s    12.40nm          4.8mb
ASPA    44.94 254 iPd    28 28.80   0.6
     0.7s    20.80nm          4.8mb
                  iPcP   29 56.60
                  eS     34 21.90
WARB    51.42 251 eP     29 17.00   0.1
MBL     58.12 256 iPd    30 03.30  -0.5
     0.4s     8.00nm          4.4mb
YKA     94.28  25 eP     33 20.70  -0.7
     0.6s     0.40nm          3.8mb
CLL    145.51 348 iPKPd  39 38.00   0.9
     0.8s    14.00nm
     S.D. = 1.1  on   12 of   12 obs.
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&  JAN  19, 1991  06h 07m 03.13s
   60.393 N          152.097 W
   DEPTH =  79.5km
 SOUTHERN ALASKA                   (  2)
      <AEIC>.

RDT      0.24 320 iP     07 14.68  -0.6
REF      0.31 288 iP     07 15.29  -0.6
                  eS     07 25.29
RSO      0.33 282 iP     07 15.47  -0.5
                  eS     07 26.09
RS2      0.33 282 iP     07 15.49  -0.5
                  eS     07 26.03
RED      0.34 275 iP     07 15.26  -0.6
                  eS     07 25.83
RDN      0.35 290 iP     07 15.37  -0.7
                  eS     07 24.99
NCT      0.45 293 iP     07 15.89  -0.8
                  eS     07 26.13
NNL      0.53 131 iP     07 17.82   0.5
NKA      0.55  50 eP     07 18.82   1.4
INE      0.59 236 eP     07 16.75  -1.2
                  eS     07 29.09
HOM      0.77 163 iP     07 19.56  -0.2
                  eS     07 32.32
SPU      0.79   1 iP     07 19.43  -0.6
                  eS     07 32.42
CKL      0.81 352 iP     07 19.59  -0.8
BRLK     0.88 136 eP     07 20.66  -0.3
                  eS     07 34.16
CRP      0.88 358 eP     07 20.73  -0.4
BGL      0.89 351 iP     07 20.54  -0.6
                  eS     07 33.91
CGLM     0.92   3 iP     07 20.98  -0.6
OPT      0.94 218 iP     07 20.82  -0.8
                  eS     07 34.98
SLKM     0.94  82 eP     07 20.71  -1.0
XLV      0.96 168 eP     07 20.81  -1.1
                  eS     07 35.46
CNPM     0.97 153 eP     07 21.17  -0.9
NCG      1.01 358 iP     07 21.94  -0.8
PDB      1.21 241 eP     07 23.55  -1.5
AUP      1.23 213 eP     07 24.52  -0.9
SUA      1.26  31 eP     07 25.49  -0.3
                  eS     07 42.68
SEW      1.35 101 iP     07 25.38  -1.5
PMS      1.51  54 eP     07 28.28  -0.7
                  eS     07 47.64
SKT      1.62  10 iP     07 29.17  -1.2
MCNL     1.66 224 iP     07 29.24  -1.7
                  eS     07 49.18
CDD      1.66 209 eP     07 29.38  -1.7
SYI      1.80 185 eP     07 31.46  -1.3
SVW      1.87 294 eP     07 31.63  -2.3
PLRM     1.88  49 eP     07 32.41  -1.5
KNK      2.05  59 eP     07 34.49  -1.8
GHO      2.07  47 eP     07 35.06  -1.6
KNIM     2.17  89 iP     07 34.71  -3.1
CUT      2.20  23 eP     07 37.13  -1.2
GLI      2.51  77 eP     07 40.02  -2.6
VLZ      2.92  73 eP     07 45.29  -3.0
KLU      3.21  67 eP     07 49.53  -2.8
     40 obs. associated
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19d 06h

% JAN 19, 1991 06h 14m 09.74± 0.83s
44.602 N ± 4.5km 7.001 E ± 8.7km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.0 (GEN).

PZZ	0.12	144	P	14	13.67	0.8
			S	14	15.11	
BHB	0.30	38	P	14	16.80	0.7
			S	14	20.78	
RRL	0.35	334	P	14	17.48	0.4
			S	14	22.13	
STV	0.43	147	P	14	18.49	0.0
			S	14	24.08	
ENR	0.48	141	P	14	19.34	-0.2
			S	14	25.60	
RSP	0.58	18	P	14	21.12	-0.4
			S	14	28.39	
ROB	0.69	116	P	14	23.48	0.0
			S	14	31.95	
LSD	0.86	7	P	14	25.77	-0.7
IMI	0.94	137	P	14	27.04	-0.7
			S	14	38.04	
FIN	0.95	114	P	14	27.80	-0.1
PCP	1.11	93	P	14	30.76	0.2

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

& JAN 19, 1991 06h 44m 30.66s
60.369 N 153.058 W
DEPTH = 137.5km
SOUTHERN ALASKA (2)
<AEIC>.

RED	0.15	70	eP	44	48.69	0.6
RS2	0.18	58	iP	44	48.99	0.7
RSO	0.18	58	iP	44	49.00	0.7
			eS	45	02.54	
NCT	0.20	18	iP	44	48.99	0.8
RDN	0.21	45	iP	44	48.86	0.6
REF	0.21	56	iP	44	48.94	0.6
INE	0.31	180	iP	44	49.23	0.7
			eS	45	04.35	
RDT	0.38	57	iP	44	49.52	0.8
OPT	0.72	187	iP	44	51.73	-0.6
			eS	45	07.90	
PDB	0.81	225	eP	44	51.60	-1.3
CKL	0.90	23	iP	44	53.20	-0.6
NNL	0.94	110	iP	44	54.03	0.0
SPU	0.95	31	iP	44	53.33	-0.9
BGL	0.96	20	iP	44	53.82	-0.4
NKA	0.97	67	iP	44	55.04	0.8
CRP	1.00	26	eP	44	54.25	-0.5
HOM	1.01	134	eP	44	54.13	-0.4
AUE	1.03	189	eP	44	53.86	-0.9
AUP	1.03	190	eP	44	54.03	-0.9
AUH	1.03	191	iP	44	54.04	-0.8
AUI	1.05	190	eP	44	53.28	-1.7
CGLM	1.07	28	iP	44	54.52	-0.8
NCG	1.13	23	iP	44	55.28	-0.6
XLV	1.14	143	eP	44	55.04	-0.8
BRLK	1.25	118	eP	44	56.00	-1.0
CNPM	1.25	132	iP	44	56.20	-0.8
			eS	45	16.28	
MCNL	1.35	209	eP	44	56.65	-1.4
			eS	45	17.23	
SLKM	1.41	83	iP	44	57.30	-1.4
CDD	1.47	192	iP	44	58.01	-1.4
			eS	45	19.33	
SUA	1.58	45	iP	44	59.75	-0.9
			eS	45	22.51	
SKT	1.78	24	iP	45	01.88	-1.0
SYI	1.80	169	eP	45	01.55	-1.5
			eS	45	26.10	
SEW	1.82	97	iP	45	01.88	-1.4
			eS	45	25.91	
PMS	1.93	61	eP	45	03.20	-1.4
			eS	45	29.04	
PWA	2.01	49	eP	45	05.91	0.3
PLRM	2.27	56	eP	45	06.22	-2.6
PMR	2.27	56	ePd	45	06.50	-2.3
CUT	2.44	32	eP	45	09.50	-1.4
GHO	2.45	53	iP	45	08.83	-2.4
			eS	45	39.31	
KNK	2.48	63	iP	45	09.01	-2.5
KNIM	2.64	88	iP	45	10.55	-3.0
MTU	2.73	96	eP	45	12.83	-1.8
TTA	2.93	333		45	14.70	-2.6
GLI	2.98	78	eP	45	14.60	-3.3
			eS	45	50.75	
HUR	3.08	30	eP	45	17.50	-1.7
VZW	3.27	75	eP	45	18.78	-2.9
VLZ	3.39	74	eP	45	20.37	-2.8
RND	3.64	31	eP	45	24.94	-1.7
KLU	3.66	69	iP	45	24.15	-2.8
TOA	3.76	59	eP	45	26.30	-1.9
TZL	4.06	62	eP	45	29.92	-2.2
SDG	4.21	56	eP	45	32.20	-1.9
PAX	4.46	51	iP	45	35.64	-1.9
GLB	4.64	73	eP	45	37.42	-2.6
DDM	4.82	41	eP	45	41.52	-0.8
CCB	4.93	27	eP	45	41.37	-2.5
HDA	4.95	32	eP	45	41.68	-2.4
TGL	5.06	81	eP	45	44.09	-1.6
MDM	5.12	24	eP	45	43.99	-2.3
FBA	5.15	26	eP	45	45.10	-1.7
BALM	5.31	78	eP	45	46.98	-2.0
YAH	5.62	85	eP	45	51.87	-1.4
IMA	5.73	357	eP	45	52.40	-2.3
CTGM	5.80	79	iP	45	54.54	-1.1
YKA	18.33	67	eP	48	53.90	17.3

0.7s 0.40nm
65 obs. associated

? JAN 19, 1991 07h 26m 33.39± 4.62s
7.082 N ±45.1km 73.124 W ±96.8km
DEPTH = 140.0km (geophysicist)
3.5mb (1 obs.)
NORTHERN COLOMBIA (99)

HOBC	4.04	228	iPd	27	34.84	0.0
BUGC	4.44	225	eP	27	40.41	0.2
CLMC	4.67	227	eP	27	43.61	0.3
DIAC	4.85	219	eP	27	45.90	0.1
HOOC	5.01	224	eP	27	47.44	-0.5
ANCC	5.14	227	eP	27	49.46	-0.1
			eS	28	45.50	
YKA	63.02	340	eP	36	47.30	0.0

0.6s 0.40nm 3.5mb
S.D. = 0.3 on 7 of 7 obs.

• JAN 19, 1991 07h 39m 23.21± 1.14s
18.330 N ±17.7km 120.738 E ±14.2km
DEPTH = 33.0km (normal)
LUZON, PHILIPPINE ISLANDS (249)
Felt (II RF) at Posuquin.

PIP	0.11	268	iPd	39	29.00	0.0
			e	39	37.00	
SZP	0.82	199	iPc	39	43.00	4.7X
			iS	39	52.00	
CVP	1.20	121	eP	39	44.00	0.2
			eS	39	54.50	
BAG	1.91	185	eP	39	54.00	-0.3
			eS	40	17.80	
CHTO	20.67	275	(P)	44	04.00	1.1
GUN	33.35	293	P	46	00.00	-1.0

S.D. = 1.1 on 5 of 6 obs.

% JAN 19, 1991 07h 42m 26.63± 0.92s
44.588 N ± 5.8km 7.000 E ±10.1km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.1 (GEN).

PZZ	0.11	139	P	42	29.99	0.4
			S	42	31.84	
BHB	0.32	36	P	42	33.38	0.2
			S	42	37.48	
RRL	0.37	335	P	42	34.10	-0.1
			S	42	39.02	
STV	0.42	146	P	42	35.12	0.0
			S	42	40.66	
ENR	0.47	140	P	42	36.15	-0.1
			S	42	42.06	
ROB	0.69	115	P	42	40.15	-0.2
			S	42	49.03	
IMI	0.93	136	P	42	44.52	0.1
			S	42	56.57	
FIN	0.95	113	P	42	44.43	-0.2

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

JAN 19, 1991 07h 43m 32.33± 0.52s
44.584 N ± 4.0km 6.999 E ± 7.7km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.4 (LDG).

DOI	0.19	114	Pc	43	38.50	1.8
			iSg	43	41.60	
BNI	0.52	334	P	43	43.90	1.0
			eSg	43	50.30	
TOUF	0.60	162	Pg	43	43.87	-0.7
AUTN	0.66	152	Pg	43	45.21	-0.5
			Sg	43	54.42	
MVIF	0.70	171	Pg	43	46.01	-0.2
			Sg	43	55.35	
SAOF	0.72	146	Pg	43	45.78	-0.7
			Sg	43	55.92	
AURF	0.74	161	Pg	43	46.30	-0.5
			Sg	43	56.50	
SBF	0.79	156	Pg	43	47.40	-0.3
			Sg	43	57.50	
LPG	0.93	349	Pg	43	49.60	-0.7
			Sg	44	01.30	
LPL	0.95	349	Pg	43	49.90	-0.7
FRF	1.05	194	Pg	43	53.00	0.8
			Sg	44	05.70	
LRG	1.22	202	Pg	43	55.50	0.5
			Sg	44	12.20	
LMR	1.30	196	Pg	43	56.50	0.1
			Sg	44	13.30	

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

• JAN 19, 1991 07h 53m 11.64± 3.13s
7.173 S ±14.4km 128.577 E ±15.1km
DEPTH = 71.5 ± 34.8 km
4.5mb (4 obs.)
BANDA SEA (280)

MTN	6.17	156	eP	54	42.50	0.3
	0.3s	213.00nm				6.0mb X
			eS	55	46.00	
KNA	8.53	179	eP	55	05.00	-9.7X
	0.2s	8.00nm				5.2mb X
			eS	56	41.00	
MBL	16.27	210	eP	56	57.00	-0.2
	0.3s	3.00nm				3.9mb
			eS	59	45.00	
OIS	17.06	142	eP	57	07.00	-0.1
			eS	00	00.00	
ASPA	17.18	163	eP	57	08.10	-0.4
	0.7s	4.00nm				3.7mb
			eS	00	05.40	
WARB	19.00	185	eP	57	31.00	0.5
			eS	00	41.00	
GUN	54.01	312	P	02	31.60	0.2
	0.6s	10.00nm				5.0mb
PKI	54.17	311	P	02	32.80	0.3
KKN	54.39	312	P	02	34.00	0.0
DMN	54.42	311	P	02	34.40	0.1
GKN	54.98	311	P	02	37.60	-0.6
	0.5s	12.00nm				5.2mb

S.D. = 0.4 on 10 of 11 obs.

% JAN 19, 1991 08h 11m 08.74± 1.16s
44.575 N ± 7.1km 6.985 E ±12.7km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 1.9 (GEN).

PZZ	0.11	130	P	11	12.13	0.4
			S	11	13.99	
BHB	0.33	37	P	11	15.78	0.1
			S	11	20.38	
RRL	0.37	338	P	11	16.39	-0.1
			S	11	21.56	
STV	0.41	144	P	11	17.15	0.0
			S	11	22.51	
ENR	0.47	138	P	11	18.19	-0.1
			S	11	24.31	
ROB	0.69	113	P	11	22.11	-0.4

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

• JAN 19, 1991 08h 18m 11.91± 0.93s
8.452 S ±16.9km 123.947 E ±22.2km
DEPTH = 33.0km (normal)
4.6mb (2 obs.)
FLORES ISLAND REGION (286)

MTN	8.30	122	eP	20	12.50	-0.5
	0.3s	183.00nm				6.7mb X

KNA	8.65	147	iPc	20	20.00	2.2
	0.7s	26.00nm				5.5mb X
			eS	21	56.00	
WARB	17.82	172	eP	22	18.00	-1.1
ASPA	17.88	149	eP	22	19.60	-0.3
	0.6s	7.50nm				4.0mb
Z	24s	0.20um				3.4MszX
			eS	25	31.80	
OIS	19.33	130	iPc	22	37.00	-0.6
CHTO	36.63	318	(P)	25	18.00	0.6
LZH	48.17	338	eP	26	51.00	-0.3
	1.0s	25.00nm				5.2mb
	S.D. = 1.3	on	7 of	7	obs.	

JAN 19, 1991 08h 46m 34.09± 0.65s
40.849 N ± 5.1km 22.785 E ± 6.1km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 1.7 (SKO). MD 1.6 (THE).

THE	0.26	148	ePd	46	39.40	-0.1
			iS	46	42.92	
GRG	0.31	290	ePc	46	40.76	0.2
			eS	46	45.56	
KNT	0.32	15	iPc	46	41.17	0.4
			eS	46	45.60	
SOH	0.43	93	iPc	46	42.93	0.0
			eS	46	48.20	
VAY	0.50	341	iPg	46	43.70	-0.5
			iSg	46	50.50	
LIT	0.78	197	ePd	46	49.36	0.0
	S.D. = 0.4	on	6 of	6	obs.	

? JAN 19, 1991 09h 33m 49.65± 1.98s
51.340 N ±20.7km 178.130 W ±27.1km
DEPTH = 33.0km (normal)
4.1mb (2 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS. (7)

ADK	1.05	58	iPd	34	08.20	0.1
TTA	16.59	37	eP	37	42.00	0.9
IMA	19.27	31	eP	38	14.30	0.2
KLU	20.29	48	eP	38	25.50	0.5
FBA	20.72	38	eP	38	28.00	-1.3
INK	27.25	35	eP	39	31.00	-1.2
MBC	33.49	22	eP	40	28.50	1.2
YKA	34.95	47	eP	40	38.40	-1.7
	0.6s	0.70nm				3.8mb
PNT	36.55	70	eP	40	55.00	1.2
	0.6s	4.00nm				4.5mb
BW06	45.92	73	eP	42	10.00	-1.0
JSC	68.01	62	eP	44	47.60	0.1
LHS	68.11	62	eP	44	48.30	0.2
SGS	69.23	63	eP	44	55.70	0.7
	S.D. = 1.1	on	13 of	13	obs.	

JAN 19, 1991 09h 37m 36.01± 0.29s
44.605 N ± 1.8km 7.045 E ± 3.5km
DEPTH = 10.6 ± 3.2 km
NORTHERN ITALY (545)
ML 2.3 (GEN), 2.2 (LDG).

PZZ	0.11	158	P	37	39.20	0.1
			S	37	41.43	
DOI	0.18	125	Pc	37	40.50	0.4
			iSg	37	43.60	
BHB	0.28	33	P	37	42.62	0.6
			S	37	46.75	
RRL	0.37	330	P	37	43.30	-0.3
			S	37	48.12	
STV	0.41	151	P	37	44.33	-0.2
			S	37	49.93	
ENR	0.46	145	P	37	45.16	-0.4
			S	37	51.44	
RSP	0.57	15	P	37	47.50	0.0
			S	37	54.99	
TOUF	0.61	166	Pg	37	47.96	-0.4
ROB	0.67	117	P	37	49.25	0.0
			S	37	58.74	
AUTN	0.67	156	Pg	37	49.21	-0.2
			Sg	37	58.88	
MVIF	0.71	174	Pg	37	50.10	0.0
SAOF	0.72	149	Pg	37	50.06	-0.1
			Sg	38	00.18	
AURF	0.75	164	Pg	37	50.40	-0.2
			Sg	38	00.70	
SBF	0.79	159	Pg	37	52.00	0.6
			Sg	38	02.20	
LSD	0.86	5	P	37	52.43	-0.2
			S	38	03.30	
LPG	0.92	347	Pg	37	53.70	0.0
			Sg	38	05.30	
IMI	0.92	139	P	37	53.45	-0.2
			S	38	05.09	
FIN	0.92	115	P	37	53.76	0.2
			S	38	05.17	
LPL	0.94	346	Pg	37	54.10	0.1
PCP	1.07	93	P	37	56.52	0.3
FRF	1.08	196	Pg	37	56.90	0.6
			Sg	38	09.60	
LRG	1.25	203	Pg	37	59.70	0.5
			Sg	38	14.70	
LMR	1.33	197	Pg	38	00.60	0.1
			Sg	38	17.10	
	S.D. = 0.3	on	23 of	23	obs.	

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* JAN 19, 1991 10h 00m 35.91± 0.74s
2.508 N ±13.7km 128.267 E ±18.5km
DEPTH = 33.0km (normal)
4.9mb (5 obs.)
HALMAHERA (267)

OIS	25.48	155	eP	06	04.00	1.1
ASPA	26.59	168	eP	06	12.20	-1.0
	0.7s	5.70nm				4.3mb
CHTO	32.96	302	P	07	10.00	0.0
MAT	35.09	14	iPc	07	27.20	-1.0
	0.7s	8.90nm				4.8mb
LZH	40.33	329	iPc	08	14.40	2.1
	1.5s	31.00nm				4.8mb
GUN	47.68	306	Pc	09	12.18	0.3
PKI	47.92	306	P	09	13.36	-0.5
	0.7s	10.00nm				5.0mb
KKN	48.12	306	P	09	14.96	-0.2
DMN	48.19	305	P	09	15.54	-0.2
	0.8s	22.00nm				5.3mb
GKN	48.72	306	P	09	19.08	-0.7
HYB	50.97	290	eP	09	37.00	0.0
	S.D. = 1.0	on	11 of	11	obs.	

JAN 19, 1991 10h 07m 39.72± 0.57s
42.771 N ± 5.6km 19.200 E ± 4.4km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MD 2.0 (TTG).

NKY	0.15	286	iPgd	07	43.48	0.1
			iSg	07	46.03	
TTG	0.34	173	iPgc	07	46.78	0.0
			iSg	07	52.50	
BRY	0.50	285	iPgc	07	49.62	-0.3
			iSg	07	57.03	
IVA	0.52	79	iPgd	07	51.18	0.8
			iSg	07	59.55	
BDV	0.56	210	iPgc	07	51.68	0.6
			iSg	08	00.78	
PLE	0.58	14	iPgd	07	51.43	-0.1
			iSg	08	00.63	
PVY	0.60	107	iPgd	07	50.82	-1.0
			iSg	08	02.68	
HCY	0.61	238	iPgc	07	51.80	-0.2
			iSg	08	02.42	
	S.D. = 0.7	on	8 of	8	obs.	

JAN 19, 1991 10h 08m 25.21± 0.30s
26.012 N ± 7.4km 60.762 E ± 3.6km
DEPTH = 33.0km (normal)
4.8mb (29 obs.)
SOUTHERN IRAN (353)

QUE	6.87	51	eP	10	05.20	-1.2
	1.0s	89.00nm				5.6mb
			eS	11	15.10	
RYD	12.86	267	iPc	11	27.50	-1.0
NDI	14.86	76	iPc	11	50.50	-4.2X
	0.6s	43.33nm				5.0mb
HYB	18.60	114	eP	12	41.50	-0.4
GBA	19.93	125	P	12	58.00	0.8
GKN	21.36	79	P	13	11.24	-0.8
	0.8s	57.00nm				5.0mb
DMN	21.78	80	P	13	16.74	0.3
KKN	21.93	80	P	13	17.70	-0.2
	0.6s	73.00nm				5.2mb
PKI	22.05	80	P	13	19.04	-0.2
	0.9s	98.00nm				5.2mb
KOD	22.28	132	eP	13	21.90	0.4
GUN	22.46	80	P	13	23.84	0.6
LSA	27.08	75	Pc	14	08.20	0.9
WMQ	28.16	44	eP	14	13.00	-3.5X
MLR	33.93	314	eP	15	10.00	2.5
GTA	35.20	58	eP	15	18.70	0.2
	0.6s	10.00nm				4.9mb
CHTO	35.92	94	P	15	24.00	-0.6
OHR	36.21	305	e(P)	15	27.00	0.1
LZH	37.99	64	eP	15	43.00	1.0
	1.5s	28.00nm				4.9mb
KRA	39.43	318	iP	15	54.10	0.4
XAN	42.14	67	P	16	16.00	-0.3
NUR	42.37	334	eP	16	18.20	0.5
KAF	42.79	337	eP	16	22.10	1.0
FVI	43.01	311	P	16	28.50	5.4X
KHC	43.06	315	eP	16	23.50	-0.1
CTI	43.68	310	P	16	30.50	1.8
CLL	44.01	318	iPd	16	32.00	0.9
	1.5s	20.00nm				4.7mb
IPM	44.02	112	ePc	16	32.00	0.3
	0.5s	12.60nm				5.0mb
SOTA	44.19	312	iPc	16	32.00	-0.8
	0.5s	3.80nm				4.5mb
			i	16	42.90	
TIY	44.91	62	eP	16	39.80	1.1
UPP	44.93	331	iP	16	39.00	0.6
BCAO	45.74	249	iPd	16	58.00	12.5X
	0.8s	10.00nm				
SOD	46.34	343	iP	16	49.40	-0.1
SBF	46.38	307	eP	16	50.30	0.1
	0.7s	16.55nm				5.1mb
LPG	47.00	309	eP	16	55.10	-0.3
	0.7s	7.70nm				4.8mb
BNI	47.01	308	P	16	57.20	1.8
LPL	47.02	309	eP	16	55.10	-0.4
	0.7s	7.70nm				4.8mb
RSL	47.11	309	P	17	05.73	9.6X
BSF	47.24	312	eP	16	56.40	-0.7
	0.5s	2.90nm				4.5mb
HAU	47.56	312	eP	16	58.70	-0.8
	0.5s	2.90nm				4.5mb
KEV	47.98	345	eP	17	01.00	-1.4
NAO	48.39	330	P	17	04.50	-1.2
	0.6s	2.90nm				4.5mb
SSB	48.54	308	P	17	06.49	-0.6
LBF	49.05	311	eP	17	11.00	-0.1
	0.6s	4.50nm				4.7mb
SMF	49.12	310	eP	17	11.30	-0.2
	0.6s	12.65nm				5.1mb
LOR	49.15	311	eP	17	11.30	-0.5
	0.4s	1.70nm				4.4mb
SSF	49.38	311	eP	17	13.20	-0.3
	0.5s	5.10nm				4.8mb
AVF	49.46	310	eP	17	13.90	-0.3
	0.6s	2.70nm				4.5mb
BGF	49.80	310	eP	17	16.50	-0.2
MAF	49.97	310	eP	17	17.90	-0.2
TCF	50.22	310	eP	17	20.00	0.0
	0.7s	3.30nm				4.5mb
CAF	50.27	308	eP	17	20.80	0.3
	0.8s	8.05nm				4.8mb
NJ2	50.64	69	Pc	17	22.80	-0.5
RJF	50.67	308	eP	17	24.00	0.6
	0.8s	10.75nm				4.9mb
LPO	50.89	308	eP	17	25.40	0.3
	0.8s	5.35nm				4.6mb
LFF	51.22	308	eP	17	28.20	0.7
	0.7s	13.25nm				5.0mb
LDF	51.91	313	eP	17	32.10	-0.7
	0.5s	65.50nm				5.8mb X
FLN	52.16	313	eP	17	33.90	-0.7
KIC	65.24	265	P	19	17.10	10.9X
TIC	65.37	265	P	19	17.80	10.8X
MBC	77.99	0	eP	20	21.50	0.3
FRB	82.12	340	eP	20	42.00	-1.5
WRA	84.75	115	P	20	57.00	-0.7
	0.6s	1.60nm				4.4mb
ASPA	86.26	118	eP	21	04.80	-0.4
	1.0s	2.90nm				4.5mb
YKA	91.73	358	eP	21	30.30	-0.1
	0.6s	0.40nm				4.0mb
	S.D. = 0.8	on	57 of	64	obs.	

? JAN 19, 1991 10h 29m 23.15± 6.27s
43.627 N ±20.0km 13.698 E ±42.8km

19d 10h

DEPTH = 5.0km (geophysicist)
CENTRAL ITALY (381)

ARV	0.56	257	Pc	29	34.80	0.3
			iSg	29	36.00	
ASS	0.94	234	P	29	41.50	-0.1
			eSg	29	48.50	
CRE	1.27	271	P	29	46.60	-0.6
			eSg	29	55.20	
SFI	1.37	283	P	29	49.20	0.4
			eSg	30	02.00	

S.D. = 0.8 on 4 of 4 obs.

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* JAN 19, 1991 12h 01m 57.35± 0.48s
59.049 S ±14.9km 25.716 W ±10.1km
DEPTH = 33.0km (normal)
5.2mb (8 obs.)
SOUTH SANDWICH ISLANDS REGION (153)

SPA	31.12	180	iPd	08	16.80	2.1
	1.0s	16.00nm			4.8mb	
			i	08	30.20	
PCH	38.94	291	eP	09	22.50	0.8
LNV	39.10	289	eP	09	24.50	1.6
TACH	39.12	290	eP	09	23.50	0.4
SAN	39.15	291	eP	09	25.50	2.2
PPD	41.26	323	eP	09	40.30	-0.4
SLR	49.93	72	iPc	10	52.30	2.4
CNCB	52.24	305	P	11	08.00	0.1
ZOBO	52.78	306	P	11	10.80	-1.2
			eLR	28	16.00	
BUL	54.81	69	iPc	11	28.20	1.8
	0.8s	33.58nm			5.4mb	
			pP	12	47.50	380kmX
KRI	58.14	68	iPc	11	49.80	-0.3
NNA	60.39	299	eP	12	05.50	-0.1
	0.8s	8.96nm			4.9mb	
LIC	67.14	22	Pc	12	49.56	-0.2
	0.6s	15.00nm			5.3mb	
KIC	67.33	23	Pc	12	50.66	-0.3
	0.7s	12.50nm			5.1mb	
TIC	67.55	22	P	12	52.02	-0.3
	0.7s	16.00nm			5.2mb	
LWI	70.55	60	iPc	13	12.80	1.7
BCAO	72.34	47	iPc	13	22.80	1.2
	0.5s	28.00nm			5.5mb	
			ic	13	42.10	
ASPA	95.88	161	eP	15	21.10	-0.7
	0.8s	4.50nm			5.0mb	
			i	15	40.40	
NAO	122.87	20	PKP	21	08.30	18.3X
	0.7s	1.50nm				
DMN	123.90	92	PKP	20	52.72	-0.7
GKN	123.97	92	PKP	20	52.34	-1.0
	0.7s	21.00nm				
PKI	124.02	92	PKP	20	52.70	-1.0
	0.7s	10.00nm				
KKN	124.13	92	PKP	20	52.90	-0.9
	0.6s	12.00nm				
GUN	124.54	93	PKP	20	54.02	-0.7
	0.8s	19.00nm				
FRB	126.74	338	ePKP	20	56.00	-1.4
DAG	135.63	2	ePKP	21	11.50	-2.5
	0.8s	6.72nm				
YKA	138.90	315	ePKP	21	09.90	-10.5X
	0.4s	0.70nm				
SSE	144.23	127	ePKP	21	29.00	-1.8
MBC	147.04	334	ePKP	21	33.50	-0.6
	0.8s	13.00nm				
INK	148.59	317	ePKP	21	35.00	-1.8
BJI	149.40	111	ePKP	21	43.00	4.1X
	1.0s	14.00nm				
FBA	153.05	307	(PKP)	21	45.00	1.5

S.D. = 1.4 on 29 of 32 obs.

? JAN 19, 1991 12h 19m 30.68±10.60s
5.187 N ±92.7km 76.515 W ±40.2km
DEPTH = 90.0km (geophysicist)
COLOMBIA (103)
MD 3.7 (UVC).

HOBC	0.91	155	iPd	19	49.79	0.0
			eS	20	03.30	
CLMC	1.30	182	eP	19	54.55	0.1
BUGC	1.31	169	eP	19	54.81	0.3
ANCC	1.70	192	iPd	19	59.11	-0.3
HOQC	1.71	184	iPc	19	59.53	-0.3
			eS	20	20.30	
DIAC	1.91	170	eP	20	01.92	-0.5
			eS	20	24.70	
SALC	2.21	185	iPd	20	07.14	0.8
			eS	20	33.70	

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

JAN 19, 1991 12h 27m 57.94± 0.43s
15.109 N ± 9.5km 147.696 E ± 8.0km
DEPTH = 33.0km (normal)
4.2mb (3 obs.)
MARIANA ISLANDS REGION (215)

GUA	3.12	240	eP	28	45.70	-0.3
			eS	29	22.00	
PJG	3.13	241	eP	28	45.80	-0.3
MAT	22.96	340	eP	32	47.00	-13.5X
ASPA	40.83	200	eP	35	38.70	0.4
	0.6s	3.00nm			4.2mb	
LZH	44.27	306	eP	36	07.00	0.5
			sP	36	13.50	
			i	36	22.00	
GUN	58.38	294	P	37	53.94	0.7
PKI	58.80	293	P	37	56.32	0.1
KKN	58.91	294	P	37	56.46	-0.3
DMN	59.07	293	P	37	58.30	0.4
GKN	59.47	294	P	37	59.98	-0.6
INK	71.92	23	eP	39	19.00	-0.6
MBC	76.14	14	eP	39	44.00	0.1
	1.0s	6.00nm			4.6mb	
YKA	80.25	28	eP	40	05.90	-0.7
	0.9s	1.00nm			3.8mb	
TNP	84.75	52	P	40	31.00	0.4
SES	85.51	39	eP	40	34.00	0.0
KIC	145.34	306	PKPd	47	35.00	0.0
	0.7s	14.00nm				
TIC	145.38	307	PKP	47	34.94	-0.2
LIC	145.65	306	PKP	47	35.92	0.3

S.D. = 0.5 on 17 of 18 obs.

? JAN 19, 1991 12h 28m 43.37± 1.79s
23.144 N ±20.8km 124.112 E ±19.1km
DEPTH = 33.0km (normal)
4.3mb (1 obs.)
SOUTHWESTERN RYUKYU ISLANDS (246)

TWD	2.49	292	ePc	29	21.90	-0.5
			eS	29	51.90	
TWC	2.53	306	eP	29	23.40	0.3
			eS	29	54.30	
TWF1	2.60	275	iPd	29	24.10	0.1
			eS	29	54.40	
TWG	2.82	264	ePc	29	27.20	0.1
ASPA	47.49	168	iPc	37	17.30	0.0
	0.9s	3.20nm			4.3mb	

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

JAN 19, 1991 12h 39m 16.16± 1.05s
45.053 N ± 9.2km 3.000 E ± 6.4km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.5 (LDG).

LBL	0.25	43	Pg	39	20.65	-0.7
			Sg	39	24.02	
CAF	0.68	260	Pg	39	28.60	-1.1
			Sg	39	38.10	
			Sn	39	41.00	
PYM	0.70	360	Pg	39	28.82	-1.2
			Sg	39	37.54	
AGO	1.00	5	Pg	39	34.48	-0.7
			Sg	39	47.32	
PLDF	1.01	25	Pg	39	34.58	-0.8
			Sg	39	47.87	
RJF	1.08	284	Pg	39	36.10	-0.5
			Sg	39	51.40	
SSB	1.11	78	Pg	39	37.01	0.0
			Sg	39	51.27	
MAF	1.21	345	Pg	39	38.70	0.0
			Sg	39	54.20	
LPO	1.35	255	Pg	39	41.70	0.8
			Sg	39	59.20	
TCF	1.36	336	Pg	39	41.10	0.0
			Sg	39	58.60	
BGF	1.51	356	Pn	39	42.60	-0.7
			Pg	39	43.90	
			Sg	40	02.60	
LSF	1.58	320	Pg	39	45.30	1.0
			Sg	40	05.20	
SMF	1.70	20	Pn	39	44.80	-1.2
			Pg	39	47.20	
			Sg	40	08.30	
AVF	1.75	8	Pg	39	47.90	1.1
			Sg	40	10.00	
SSF	2.04	10	Pg	39	53.00	2.1
			Sg	40	18.80	
LBF	2.05	19	Pg	39	53.00	1.9
			Sg	40	19.10	
LOR	2.29	15	Pg	39	58.30	3.7X
			Sn	40	20.60	
			Sg	40	26.60	

S.D. = 1.1 on 16 of 17 obs.

JAN 19, 1991 13h 15m 40.20± 1.43s
9.881 N ± 5.8km 126.551 E ± 9.8km
DEPTH = 57.0 ± 12.5 km
4.9mb (12 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

MAP	2.57	280	ePc	16	22.00	1.9
			iS	16	55.00	
DAV	2.94	199	eP	16	26.00	0.5
BAG	8.71	319	eP	17	44.00	-2.4
IPM	25.85	260	ePd	21	10.00	1.6
	1.0s	41.50nm			4.9mb	
CHG	28.15	291	eP	21	28.60	-0.7
CHTO	28.15	291	P	21	28.20	-1.1
			e	21	39.00	
XAN	28.98	329	P	21	35.00	-1.6
TIY	30.49	338	Pc	21	49.80	-0.3
BJI	31.42	345	eP	22	00.00	1.9
MBL	31.54	192	eP	21	59.00	-0.4
	0.5s	4.00nm			4.5mb	
SNY	31.93	356	eP	22	02.20	-0.3
QIS	32.86	157	iPd	22	10.00	-0.9
LZH	33.25	325	P	22	14.20	-0.2
	1.0s	20.00nm			4.9mb	
			sP	22	25.00	
HHC	33.58	339	P	22	18.40	1.3
ASPA	34.11	168	eP	22	19.50	-2.2
	1.1s	4.10nm			4.3mb	
WARB	35.85	180	eP	22	37.00	0.5
MEKA	37.10	192	eP	22	47.50	0.5
	0.5s	13.00nm			5.1mb	
GTA	37.86	325	eP	22	53.40	0.0
	0.8s	10.00nm			4.8mb	
MRWA	40.18	194	eP	23	13.00	0.3
	0.4s	4.00nm			4.6mb	
GUN	42.20	301	P	23	29.12	-0.6
	0.9s	36.00nm			5.2mb	
PKI	42.50	300	P	23	31.82	-0.4
KKN	42.68	300	P	23	32.86	-0.6
DMN	42.77	300	P	23	34.28	0.0
BRS	44.93	146	iPc	23	51.00	-0.4
ADE	46.06	166	ePd	24	00.50	0.2
HYB	47.14	285	eP	24	09.00	-0.1
WMQ	47.70	322	eP	24	17.20	4.0X
GBA	48.17	279	P	24	17.20	0.1
MAIO	65.75	305	eP	26	21.00	-0.6
FBA	79.28	26	P	27	41.00	0.2
INK	84.54	22	eP	28	09.00	0.9
MBC	86.03	13	eP	28	16.50	1.1
KAF	86.10	332	iP	28	16.50	0.6
	0.7s	7.50nm			5.0mb	
NUR	87.27	331	eP	28	22.50	0.9
UPP	90.81	331	iP	28	38.80	0.5
DAG	91.19	352	iPc	28	40.20	0.4
	0.8s	6.72nm			5.1mb	
NAO	93.49	334	P	28	50.00	-0.7
	0.8s	4.20nm			4.9mb	
YKA	94.00	24	eP	28	53.00	0.0
	0.8s	0.80nm			4.2mb	

S.D. = 1.0 on 37 of 38 obs.

JAN 19, 1991 13h 24m 09.40± 0.56s
23.614 N ± 5.2km 121.742 E ± 7.0km
DEPTH = 10.0km (geophysicist)
4.4mb (5 obs.)
TAIWAN (244)
ML 4.7 (BJI).

TWD	0.48	344	iPc	24	18.90	-0.3
			eS	24	24.90	
TWF1	0.48	238	iPc	24	19.50	0.3

		eS	24	26.50		
TWC	1.00	6 ePd	24	29.20	0.9	
TWQ	1.06	309 ePc	24	28.80	-0.6	
		eS	24	41.50		
TWK	1.20	254 iPc	24	32.00	0.2	
		eS	24	47.50		
TWZ	1.48	354 eP	24	36.60	0.5	
ANP	1.58	353 eP	24	32.50	-5.1X	
		eS	24	50.50		
QZH	3.16	295 Pn	24	58.30	-1.9	
		Sn	25	35.30		
CVP	5.88	179 eP	25	38.00	-0.7	
BAG	7.25	189 eP	25	58.10	0.0	
SSE	7.47	356 eP	26	00.50	-0.5	
Z	12s	1.40um				
		pP	26	03.50		
		eS	27	22.80		
GZH	7.73	268 P	26	02.80	-2.0	
Z	12s	1.80um				
NJ2	8.78	344 Pc	26	17.00	-2.3	
	0.8s	60.00nm		6.0mb X		
		pP	26	24.00		
WHN	9.54	318 eP	26	28.50	-1.3	
QIZ	11.99	250 eP	27	03.00	-0.3	
N	12s	0.70um				
E	11s	0.60um				
GYA	13.96	285 P	27	28.80	-0.9	
N	10s	1.00um				
E	10s	1.80um				
XAN	15.29	316 P	27	45.00	-1.9	
TIY	16.16	333 eP	28	01.00	2.8X	
Z	10s	1.50um				
		S	30	56.00		
BJI	17.04	345 eP	28	13.00	3.8X	
CD2	17.55	298 eP	28	14.80	-1.0	
Z	10s	5.10um				
HHC	19.20	336 eP	28	38.00	1.9	
BTO	19.60	333 eP	28	43.00	2.2	
N	11s	1.40um				
E	11s	0.90um				
LZH	19.85	313 Pd	28	44.50	0.9	
	5.0s	440.00nm		5.0mb X		
Z	10s	1.07um		6.0MszX		
		sP	28	53.00		
		PP	29	04.00		
		eS	32	15.00		
CN2	20.37	8 eP	28	48.60	-0.2	
Z	12s	1.50um		4.6MszX		
N	10s	0.50um				
E	10s	0.20um				
		epP	28	54.00	20kmX	
CHG	21.77	262 ePc	29	03.50	0.1	
	1.0s	14.50nm		4.3mb		
MDJ	21.91	15 eP	29	06.00	1.5	
GTA	24.35	315 eP	29	29.30	0.7	
	1.6s	20.00nm		4.5mb		
Z	14s	0.80um		4.4MszX		
E	10s	0.65um				
		pP	29	37.40	29kmX	
LSA	27.95	289 P	30	06.00	3.4X	
GUN	32.51	285 P	30	45.00	2.0	
PKI	32.93	285 P	30	48.60	2.0	
KKN	33.04	285 P	30	49.80	2.3	
DMN	33.20	285 P	30	51.20	2.3	
GKN	33.60	285 P	30	51.60	-0.7	
WMO	34.42	314 eP	31	03.70	4.6X	
Z	12s	0.50um		4.5MszX		
QIS	47.23	157 eP	32	44.00	-0.5	
ASPA	48.46	165 eP	32	54.50	0.3	
	0.7s	3.20nm		4.5mb		
MAIO	54.56	299 eP	33	41.00	0.8	
FBA	69.08	27 (P)	35	15.00	-2.3	
INK	73.56	22 eP	35	43.00	-1.0	
MBC	73.70	13 eP	35	44.00	-0.8	
NAO	79.23	332 P	36	17.60	1.5	
	0.9s	2.90nm		4.3mb		
YKA	83.30	23 eP	36	36.10	-1.3	
	0.8s	2.10nm		4.4mb		
ZOBO	168.20	54 ePKP	44	22.00	3.4X	
		e	45	10.00		
	S.D. = 1.4	on 37 of 43 obs.				

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* JAN 19, 1991 13h 30m 52.23± 1.11s
7.352 S ± 8.5km 129.178 E ±14.6km
DEPTH = 150.0 ± 13.1 km
4.8mb (5 obs.)
BANDA SEA (280)

AAI	3.77	345 ePd	31	51.00	0.8	
	0.5s	152.40nm				
		eS	35	11.50		
MTN	5.79	161 eP	32	16.00	-1.0	
KUPT	6.17	243 ePd	32	23.00	0.8	
		eS	33	29.00		
KNA	8.36	183 iPd	32	49.60	-2.0	
	0.3s	152.00nm		6.1mb X		
		eS	34	16.00		
MBL	16.43	212 eP	34	35.00	-0.6	
	0.4s	10.00nm		4.5mb		
		eS	37	34.00		
QIS	16.56	143 eP	34	39.00	1.8	
		eS	37	31.00		
ASPA	16.84	165 eP	34	39.70	-1.0	
	0.6s	33.50nm		4.8mb		
		eS	37	33.60		
WARB	18.88	187 eP	35	05.00	1.3	
		e	35	11.50		
MEKA	21.67	207 eP	35	34.00	2.2	
	0.4s	6.00nm		4.4mb		
GUN	54.57	312 P	40	07.30	-0.5	
	0.7s	26.00nm		5.2mb		
PKI	54.74	311 P	40	08.32	-0.6	
KKN	54.95	311 P	40	09.88	-0.5	
DMN	54.98	311 P	40	10.18	-0.4	
GKN	55.55	311 P	40	14.06	-0.5	
	0.4s	17.00nm		5.3mb		
	S.D. = 1.4	on 14 of 14 obs.				

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* JAN 19, 1991 13h 33m 39.05± 0.49s
31.455 S ±10.6km 178.323 W ±16.9km
DEPTH = 33.0km (normol)
5.4mb (3 obs.)
KERMADEC ISLANDS REGION (177)

RAO	2.22	9 P	34	14.00	-0.3	
		S	34	37.00		
HBZ	6.73	204 eP	35	19.00	0.9	
	0.3s	47.00nm		5.8mb		
PUZ	7.18	202 eP	35	23.50	-0.9	
		eS	36	45.00		
NOZ	7.74	202 eP	35	31.50	-0.8	
MNG	10.43	207 eP	36	04.50	-4.8X	
		eS	37	57.80		
KIW	10.86	208 eP	36	09.60	-5.7X	
CAW	11.01	207 eP	36	11.20	-6.0X	
MRW	11.26	208 eP	36	19.00	-1.6	
		S	38	19.00		
KHZ	12.72	208 eP	36	35.00	-5.3X	
		eS	38	50.40		
DZM	16.49	301 iPd	37	37.00	7.5X	
BRS	25.46	272 iPd	39	08.00	2.2	
WRA	43.87	273 P	41	42.00	-2.2	
	0.4s	21.90nm		5.3mb		
SPA	58.72	180 iPc	43	38.40	2.6	
	0.6s	12.20nm		5.2mb		
PLM	86.70	47 eP	46	21.00	0.0	
RVR	86.80	47 eP	46	21.00	-0.3	
SBB	86.98	46 eP	46	22.00	-0.2	
ISA	87.24	45 eP	46	23.00	-0.4	
TPC	87.70	47 eP	46	26.00	0.3	
GLA	87.80	49 eP	46	27.00	0.9	
CLC	87.87	45 eP	46	26.00	-0.5	
GSC	88.02	46 eP	46	27.00	-0.2	
TNP	89.60	44 P	46	34.00	-0.8	
YKA	106.51	26 ePKP	51	58.20	-3.1X	
	0.7s	0.30nm				
FRB	126.42	31 ePKP	52	37.00	-2.4	
KAF	145.44	340 iPKP	53	10.20	-4.3X	
	0.6s	6.60nm				
NUR	147.20	339 iPKP	53	15.80	-1.6	
	0.7s	22.70nm				
		i	53	20.30		
BCAO	148.80	214 iPKPd	53	25.00	3.6X	
	0.5s	10.00nm				
UPP	149.65	344 iPKP	53	22.50	1.3	
NAO	150.01	351 PKP	53	23.60	1.8	
	0.7s	7.10nm				
PRNI	151.45	277 ePKP	53	27.00	2.1	
	S.D. = 1.5	on 22 of 30 obs.				

% JAN 19, 1991 13h 37m 52.45± 0.97s
46.915 N ± 9.7km 1.433 E ± 5.7km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.1 (LDG).

LSF	0.67	174 Pg	38	05.70	-0.1	
		Sg	38	15.60		
		Sn	38	19.00		
TCF	0.82	139 Pg	38	08.60	0.2	
		Sg	38	20.60		
BGF	1.04	110 Pg	38	11.60	-0.4	
		Sg	38	25.10		
MAF	1.05	131 Pg	38	12.30	0.1	
		Sg	38	27.00		
MFF	1.13	254 Pg	38	13.60	0.0	
		Sg	38	30.10		
AVF	1.32	95 Pg	38	17.00	0.1	
		Sg	38	33.00		
RJF	1.61	178 Pg	38	23.40	2.4X	
		Sg	38	45.10		
LOR	1.69	77 Pg	38	22.30	0.1	
		Sg	38	43.30		
	S.D. = 0.2	on 7 of 8 obs.				

JAN 19, 1991 13h 52m 19.82± 1.01s
23.620 N ± 8.0km 121.751 E ± 9.1km
DEPTH = 10.0km (geophysicist)
4.2mb (2 obs.)
TAIWAN (244)
ML 4.2 (BJI).

TWD	0.48	343 iPd	52	29.50	0.0	
		eS	52	34.80		
TWF1	0.49	237 iPc	52	30.80	0.9	
		eS	52	37.70		
TWC	0.99	5 ePc	52	39.70	1.2	
TWQ	1.06	308 iPc	52	39.60	-0.2	
		eS	52	53.10		
TWK	1.21	253 iPc	52	43.00	0.6	
		eS	52	59.50		
TWZ	1.48	354 eP	52	47.50	1.0	
ANP	1.57	352 eP	52	40.80	-7.1X	
QZH	3.17	295 Pn	53	09.00	-1.7	
Z	10s	2.29um				
		Sn	53	46.50		
SSE	7.46	356 eP	54	11.00	-0.3	
		pP	54	14.00		
		eS	55	35.00		
GZH	7.74	268 P	54	13.60	-1.7	
		S	55	35.60		
NJ2	8.78	344 Pc	54	29.50	-0.2	
		pP	54	36.00		
		sP	54	44.00		
		S	56	05.60		
GYA	13.96	285 P	55	39.00	-1.2	
N	10s	0.30um				
E	10s	0.60um				
TIY	16.16	333 eP	56	12.80	4.2X	
Z	10s	0.80um				
CD2	17.56	298 eP	56	28.00	1.7	
CHG	21.78	262 eP	57	14.50	0.6	
GTA	24.35	315 eP	57	42.00	3.0X	
	1.2s	10.00nm		4.3mb		
GUN	32.51	285 P	58	57.58	4.1X	
PKI	32.94	285 P	58	59.54	2.4X	
KKN	33.05	285 P	59	00.90	3.0X	
DMN	33.20	285 P	59	00.62	1.3	
GKN	33.61	285 P	59	05.56	2.8X	
FBA	69.07	27 P	03	27.20	-0.4	
INK	73.55	22 eP	03	54.00	-0.4	
YKA	83.29	23 eP	04	46.60	-1.2	
	0.7s	0.80nm		4.0mb		
	S.D. = 1.1	on 17 of 24 obs.				

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* JAN 19, 1991 14h 05m 18.10± 1.40s
41.260 N ±12.4km 23.181 E ± 6.9km
DEPTH = 10.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)
MD 2.0 (THE).

KNT	0.24	245 ePd	05	23.30	0.2	
		eS	05	26.30		
SRS	0.34	115 ePd	05	25.26	0.1	
		eS	05	30.54		
SOH	0.46	163 eP	05	27.20	-0.2	
VAY	0.46	278 ePg	05	27.40	-0.1	
THE	0.65	195 ePd	05	31.18	0.1	
		eS	05	38.54		
	S.D. = 0.2	on 5 of 5 obs.				

? JAN 19, 1991 14h 42m 30.57± 0.95s
39.772 N ± 7.1km 28.621 E ±10.9km

19d 14h

DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

DST	0.17	178	iPg	42	34.40	0.0
			eSg	42	37.40	
BNT	0.79	318	iPg	42	46.00	0.0
YLV	0.98	36	ePg	42	49.20	0.0
			iSg	43	01.20	
HRT	1.32	37	iPn	42	55.00	0.0

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

? JAN 19, 1991 14h 45m 36.10± 4.55s
15.973 S ±39.8km 173.104 W ±55.6km
DEPTH = 33.0km (normal)
TONGA ISLANDS (173)

DZM	20.25	249	iPc	50	12.00	0.3
HBZ	22.84	198	P	50	37.40	-0.1
			e	50	44.90	
PUZ	23.30	197	ePg	50	42.10	0.2
NOZ	23.87	197	eP	50	47.40	0.0
			e	50	55.70	
WRA	49.99	257	P	54	30.00	0.4
	0.5s	10.90nm			5.1mb	
ASPA	50.21	252	iPd	54	30.50	-0.7
	0.8s	22.60nm			5.2mb	
WARB	56.71	249	iPd	55	17.90	-1.4
MBL	63.38	254	iPd	56	06.20	1.2
	0.4s	11.00nm			5.3mb	

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

• JAN 19, 1991 14h 47m 17.89± 0.44s
56.211 S ±11.9km 25.659 W ±10.0km
DEPTH = 33.0km (normal)
5.4mb (5 obs.)
SOUTH SANDWICH ISLANDS REGION (153)

AIA	20.60	228	e(P)	52	13.00	16.8X
SPA	33.97	180	iPd	53	59.30	-0.8
	1.0s	65.00nm			5.5mb	
			i	54	11.20	
VAO	36.69	326	eP	54	20.50	-2.9
PCH	38.04	287	eP	54	34.50	-0.2
FCH	38.15	288	eP	54	35.50	-0.4
TACH	38.24	287	eP	54	35.20	-1.1
LNV	38.27	286	eP	54	35.00	-1.4
ROCH	38.81	287	eP	54	40.50	-0.8
PPD	39.05	320	eP	54	44.00	0.8
PDCR	44.81	341	eP	55	29.00	-1.3
SOB1	48.39	340	eP	56	00.70	2.2
CNCB	50.65	303	Pc	56	18.00	1.5
LPB	50.95	304	Pc	56	21.00	2.4X
	1.1s	58.23nm			5.5mb	
	Z 18s	0.34um			4.4Msz	
			LR	13	20.00	
ZOBO	51.19	304	iPc	56	21.20	0.6
	1.0s	40.00nm			5.3mb	
	Z 20s	0.29um			4.3Msz	
			S	03	50.00	
			LR	13	34.00	
ARE	52.62	300	iPd	56	32.70	1.6
NNA	59.08	297	iP	57	17.00	-0.2
	0.9s	22.69nm			5.3mb	
LIC	64.50	23	Pd	57	53.00	-0.4
TIC	64.91	23	P	57	55.60	-0.5
BCAO	70.38	48	iPc	58	30.10	-0.3
	0.6s	6.00nm			4.8mb	
			id	58	43.00	
CUMC	70.82	303	ePc	58	35.02	1.3
PURC	71.32	305	eP	58	37.91	1.1
SILC	71.64	305	eP	58	38.82	0.3
DIAC	72.11	306	ePc	58	41.69	0.7
HOOC	72.46	306	eP	58	42.62	-0.6
ANCC	72.61	305	ePc	58	44.26	0.5
HOBC	73.02	306	ePc	58	45.00	-1.3
ADE	88.21	167	e(P)	00	07.70	1.0
DMN	123.92	90	PKP	06	14.50	0.4
GKN	123.97	90	PKP	06	13.40	-0.6
PKI	124.06	91	PKP	06	14.40	0.0
FRB	124.11	339	ePKP	06	14.00	1.1
KKN	124.16	90	PKP	06	14.40	-0.1
GUN	124.59	91	PKP	06	14.20	-1.2
YKA	136.87	317	ePKP	06	36.50	-0.8
	1.1s	2.50nm				
MBC	144.48	336	ePKP	06	50.00	-0.5
	1.2s	21.00nm				
SSE	145.84	123	ePKP	06	54.50	0.4
			i	07	06.70	
INK	146.47	320	ePKP	06	56.00	2.0
	1.0s	30.00nm				
TOA	149.92	306	ePKP	07	05.70	5.9X
BJI	150.31	107	ePKP	07	06.00	5.1X
FBA	151.27	311	ePKP	07	07.40	5.8X
IMA	153.84	313	ePKP	07	14.50	9.1X
	0.9s	7.90nm				

S.D. = 1.1 on 35 of 41 obs.

& JAN 19, 1991 14h 59m 39.18s
58.192 N 142.665 W
DEPTH = 10.0km (geophysicist)
3.2mb (1 obs.)
GULF OF ALASKA (15)
<AEIC>.

YKU	2.05	47	eP	00	09.64	-4.4
YAH	2.23	12	eP	00	12.03	-4.9
			eS	00	36.00	
PNL	2.25	47	iP	00	11.80	-5.2
			eS	00	36.78	
HQN	2.34	56	iP	00	12.99	-5.3
			eS	00	37.91	
BCPM	2.36	40	eP	00	13.46	-5.1
			eS	00	37.75	
TGL	2.57	358	iP	00	16.30	-5.4
			eS	00	44.59	
BALM	2.86	3	eP	00	20.00	-5.8
BALM	2.86	3	iP	00	20.40	-5.4
			eS	00	52.36	
CTGM	2.86	13	eP	00	20.64	-5.2
			eS	00	52.27	
GLB	3.31	350	eP	00	26.36	-5.8
			eS	01	02.87	
KNIM	3.38	312	eP	00	27.19	-5.9
PLBC	3.51	66	eP	00	29.40	-5.5
KLU	3.70	335	eP	00	31.94	-5.7
HYT	3.73	43	eP	00	33.50	-4.6
TZL	4.10	342	eP	00	38.56	-4.7
YKA	14.47	61	eP	03	08.60	2.8
	0.6s	0.40nm			3.2mb	

16 obs. associated

JAN 19, 1991 15h 56m 55.80± 0.84s
15.398 N ± 6.0km 121.238 E ± 9.0km
DEPTH = 42.2 ± 8.5 km
4.9mb (7 obs.) 4.2Msz (2 obs.)
LUZON, PHILIPPINE ISLANDS (249)

QCP	0.77	192	eP	57	14.50	4.2X
BAG	1.19	328	eP	57	15.00	-1.4
			eS	57	31.20	
SZP	2.27	341	eP	57	31.00	-0.6
			eS	58	03.00	
CVP	2.36	14	ePd	57	32.00	-0.9
			eS	58	03.00	
PIP	2.97	349	iPd	57	42.30	0.7
			iS	58	24.50	
MAP	5.71	152	eP	58	21.00	0.6
DAV	9.29	152	eP	59	12.00	1.8
QIZ	11.47	290	eP	59	37.80	-2.2
SSE	15.63	360	P	00	36.00	1.3
WHN	16.35	338	eP	00	46.50	2.6X
NJ2	16.72	353	Pc	00	50.60	2.0
GYA	17.49	311	P	01	02.40	4.0X
CHG	21.57	282	eP	01	49.00	5.1X
CHTO	21.57	282	P	01	45.00	1.1
YAN	21.63	331	P	01	45.00	0.5
CD2	22.24	317	eP	01	52.00	1.5
	Z 13s	1.30um			4.5MszX	
TIY	23.55	342	eP	02	03.80	0.5
	Z 12s	0.70um			4.3MszX	
BJI	24.95	351	eP	02	16.00	-0.6
	1.0s	35.00nm			4.9mb	
LZH	25.80	326	Pc	02	25.00	0.1
	6.0s	360.00nm			5.1mb X	
	Z 20s	0.73um			4.2Msz	
	N 11s	0.51um				
			eS	06	57.00	
SNY	26.41	4	eP	02	29.00	-1.3
			eS	07	05.00	
HHC	26.72	344	P	02	33.00	-0.3
BTO	26.94	341	eP	02	35.50	0.2
MDJ	29.97	12	eP	03	05.50	3.1X
GTA	30.40	326	eP	03	06.00	-0.5
	1.0s	10.00nm			4.5mb	
	Z 20s	0.60um			4.2Msz	
GUN	35.01	297	P	03	47.50	0.5
PKI	35.34	296	P	03	49.80	0.0
KKN	35.50	296	P	03	51.18	0.2
PMG	35.59	132	e(P)	03	46.00	-5.5X
DMN	35.61	296	P	03	52.14	0.1
GKN	36.10	297	P	03	55.28	-0.7
OIS	40.03	153	iPc	04	26.10	-2.5
			i	06	12.70	
WMO	40.18	322	eP	04	32.50	2.7X
	Z 16s	0.30um			4.2MszX	
HYB	40.94	279	eP	04	43.00	6.8X
WARB	41.66	173	eP	04	41.00	-1.0
GBA	42.39	273	P	04	50.00	1.9
			e	06	48.00	
BRS	52.40	144	iPd	06	13.50	7.2X
KAF	78.82	331	eP	08	55.00	-0.6
INK	81.33	21	eP	09	13.00	4.0X
MBC	81.79	12	eP	09	15.50	4.3X
MLR	82.82	315	eP	09	18.00	0.7
KRA	85.42	321	ePd	09	35.10	5.0X
NAO	86.26	333	P	09	33.20	-0.9
	0.8s	12.80nm			5.2mb	
YKA	91.02	23	eP	09	56.20	-0.5
	0.8s	1.30nm			4.4mb	
CDF	93.68	322	eP	10	09.30	-0.1
	1.0s	6.00nm			5.0mb	
LPG	95.37	320	eP	10	17.90	0.4
	0.7s	4.40nm			5.0mb	
LPL	95.37	320	eP	10	17.60	0.2
	0.7s	4.40nm			5.0mb	

S.D. = 1.1 on 34 of 46 obs.

• JAN 19, 1991 15h 59m 45.69± 1.32s
23.710 N ± 7.0km 121.133 E ±17.5km
DEPTH = 10.0km (geophysicist)
4.0mb (1 obs.)
TAIWAN (244)

TWF1	0.39	157	iPc	59	53.80	0.2
			eS	59	59.00	
TWD	0.56	49	iPc	59	56.70	-0.4
			eS	00	13.50	
TWC	1.11	36	iPc	00	06.90	0.4
ANP	1.51	13	eP	00	07.50	-5.4X
			eS	00	24.50	
SSE	7.36	0	P	01	36.00	0.3
	Z 20s	0.50um				
	E 10s	0.50um				
			eS	02	57.00	
			Lg	03	48.50	
YKA	83.42	23	eP	12	13.80	-0.5
	0.9s	0.90nm			4.0mb	

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

% JAN 19, 1991 16h 10m 58.58± 0.68s
44.103 N ± 6.5km 10.671 E ± 6.2km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

BDI	0.07	233	Pd	11	01.20	0.2
			iSg	11	03.20	
MME	0.09	13	Pc	11	01.00	-0.4
			iSg	11	02.80	
PII	0.40	196	Pd	11	06.20	-0.5
			iSg	11	11.80	
SFI	0.87	102	P	11	15.00	-0.3
			eSg	11	26.50	
CRE	1.04	117	P	11	19.00	0.7
			eSg	11	33.60	
BOB	1.10	308	P	11	19.60	0.3
			eSg	11	34.00	

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

? JAN 19, 1991 16h 58m 51.72±13.09s
42.920 N ±114.km 0.122 E ±11.1km
DEPTH = 5.0km (geophysicist)
PYRENEES (378)
ML 2.5 (LDG).

EPF	0.20	55	Pg	58	54.20	-1.5
			Sg	58	56.90	
BTH	0.32	310	ePd	58	57.70	-0.4
			iS	59	03.00	
			i	59	03.60	
LPO	1.92	23	Pg	59	25.10	-0.3

		Sg	59 48.50			
LFF	2.07	12 Pg	59 27.60	0.1		
		Sg	59 53.20			
CAF	2.45	34 Pg	59 34.30	1.3		
		Sg	00 05.60			
RJF	2.59	22 Pg	59 37.00	2.1X		
		Sg	00 08.60			
S.D. = 1.4		on	5 of 6 obs.			

JAN 19, 1991 17h 09m 57.53± 0.35s
43.995 N ± 3.1km 7.487 E ± 3.0km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
ML 1.9 (GEN), 1.9 (LDG).

AUTN	0.04	270 Pg	10 00.12	0.3		
		Sg	10 01.89			
SAOF	0.05	100 Pg	09 59.86	0.1		
		Sg	10 01.37			
SBF	0.14	196 Pg	10 01.00	0.2		
		Sg	10 03.40			
AURF	0.16	227 Pg	10 01.31	0.1		
		Sg	10 04.06			
TOUF	0.17	276 Pg	10 01.81	0.2		
ENR	0.24	348 P	10 02.78	0.1		
		S	10 06.17			
MVIF	0.26	248 Pg	10 03.08	0.0		
		Sg	10 07.33			
STV	0.27	335 P	10 03.40	0.0		
		S	10 07.09			
IMI	0.30	106 P	10 03.81	-0.1		
		S	10 07.91			
ROB	0.41	43 P	10 05.86	0.0		
		S	10 10.78			
PZZ	0.58	332 P	10 08.94	-0.4		
		S	10 16.63			
FRF	0.75	235 Pg	10 11.80	-0.4		
		Sg	10 21.60			
LMR	0.97	227 Pg	10 15.70	-0.2		
		Sg	10 28.40			
LRG	0.98	237 Pg	10 16.20	0.1		
		Sg	10 29.10			
S.D. = 0.2		on	14 of 14 obs.			

JAN 19, 1991 17h 32m 37.49± 0.28s
39.411 N ± 3.0km 28.027 E ± 3.4km
DEPTH = 16.5 ± 3.8 km
TURKEY (366)
ML 4.0 (ATH). MD 3.9 (ISK), 3.8 (THE).

DST	0.50	67 iPg	32 47.00	-0.5		
EDC	0.94	352 iPg	32 55.30	0.3		
BNT	0.95	355 iPn	32 55.60	0.5		
IZM	1.17	211 iPn	32 59.20	0.2		
PRK	1.37	264 iPbd	33 02.00	0.2		
		eSb	33 20.00			
EZN	1.38	288 iPn	33 02.30	0.4		
YLV	1.55	41 iPn	33 04.00	-0.5		
KHL	1.59	132 iPn	33 05.30	0.1		
ALT	1.66	102 ePn	33 06.80	0.7		
GBZT	1.75	38 iPnc	33 08.70	1.3		
CIN	1.81	179 ePn	33 07.00	-1.2		
ISK	1.83	25 ePn	33 07.50	-1.0		
ITU	1.85	24 ePn	33 09.00	0.2		
		iSg	33 37.00			
HRT	1.89	41 iPn	33 09.00	-0.4		
SMG	1.94	209 ePn	33 11.90	1.9		
GPA	1.96	63 iPn	33 10.20	-0.3		
ALN	2.12	315 ePc	33 10.60	-2.1		
DMK	2.42	355 iPn	33 16.20	-0.7		
RDO	2.58	313 iPnd	33 19.30	0.1		
BCK	2.80	133 iPn	33 22.00	-0.4		
KDZ	2.99	319 iPd	33 26.00	0.9		
		iS	33 59.00			
ELL	3.04	150 iPn	33 26.50	0.6		
APE	3.05	221 ePb	33 31.10	5.1X		
ARG	3.19	179 ePn	33 27.10	-0.8		
JMB	3.24	341 iP	33 31.00	2.4		
		(S)	34 22.00			
DIM	3.25	325 iPc	33 29.00	0.3		
		i	34 11.00			
KSL	3.51	159 ePn	33 33.10	0.7		
PLG	3.65	287 ePn	33 34.10	-0.5		
SRS	3.80	298 iPd	33 35.69	-0.9		
SOH	3.85	293 ePc	33 36.40	-0.9		
KAP	3.91	190 ePn	33 37.20	-0.9		
MMB	3.93	305 iPd	33 38.00	-0.5		
		iS	34 20.00			
KNT	4.29	296 ePc	33 43.12	-0.5		
		eS	34 32.00			
LIT	4.32	281 ePc	33 43.84	-0.2		
AGG	4.44	267 ePc	33 47.36	1.7		
GRG	4.58	292 ePd	33 47.68	0.0		
VAY	4.58	296 ePn	33 48.00	0.3		
FNA	5.28	287 ePd	33 57.20	-0.4		
		eS	34 57.00			
SKO	5.62	299 ePn	33 59.00	-3.4X		
S.D. = 0.9		on	37 of 39 obs.			

JAN 19, 1991 17h 51m 35.37± 0.65s
27.872 N ± 4.2km 139.102 E ± 4.5km
DEPTH = 553.7 ± 7.9 km
4.8mb (37 obs.)
BONIN ISLANDS REGION (212)

MAT	8.68	355 iPc	53 38.40	-2.4		
	0.7s	280.82nm		5.6mb		
		eS	55 17.00			
PJG	15.19	158 eP	54 47.10	0.8		
GUA	15.26	158 eP	54 47.70	0.8		
	1.2s	2225.00nm		6.6mb X		
SSE	15.93	286 iPc	54 53.50	0.1		
	0.7s	20.00nm		4.7mb		
		S	57 34.00			
NJ2	18.03	288 iPc	55 14.50	0.8		
	1.0s	50.00nm		5.1mb		
		S	58 15.00			
DL2	18.24	312 eP	55 17.00	1.3		
MDJ	18.36	338 eP	55 15.00	-1.8		
QZH	18.60	266 Pd	55 19.40	0.2		
SNY	18.83	322 Pc	55 21.00	-0.2		
	0.8s	100.00nm		5.5mb		
CN2	19.33	329 Pc	55 27.20	1.3		
	1.0s	30.00nm		4.9mb		
TIA	20.37	300 Pc	55 37.60	2.0		
WHN	21.76	283 Pc	55 50.00	1.7		
BJI	22.49	309 eP	55 54.00	-0.9		
TIY	24.40	301 eP	56 16.40	4.2X		
PPR	26.30	231 iPc	56 29.00	0.0		
XAN	26.54	291 P	56 30.60	-0.5		
GYA	28.85	275 iPd	56 51.20	-0.1		
		PcP	59 43.00			
		S	01 01.60			
CD2	30.87	284 iPd	57 08.50	0.1		
LZH	30.88	294 iPd	57 08.50	-0.1		
	1.0s	25.00nm		4.8mb		
KMI	32.58	274 eP	57 23.20	0.0		
GTA	34.42	300 Pd	57 38.40	0.0		
	1.0s	10.00nm		4.4mb		
		PcP	59 58.30			
CHG	37.82	265 iPd	58 06.90	0.6		
	0.9s	35.71nm		5.0mb		
PMG	37.87	167 eP	58 06.00	-0.6		
BDT	38.36	263 eP	58 10.90	0.2		
SNG	41.81	248 eP	58 39.20	0.8		
	0.8s	71.64nm		5.3mb		
LSA	41.83	284 Pd	58 40.60	1.5		
IPM	42.98	244 ePd	58 47.80	0.1		
	0.9s	74.10nm		5.2mb		
WMQ	43.90	305 Pd	58 55.20	0.5		
	1.3s	40.00nm		4.8mb		
GUN	46.72	283 Pd	59 17.74	0.9		
PKI	47.20	283 Pd	59 20.68	0.1		
	0.6s	45.00nm		5.2mb		
KKN	47.26	283 Pd	59 21.26	0.4		
DMN	47.45	283 Pd	59 22.76	0.4		
	0.5s	79.00nm		5.5mb		
WRA	47.76	186 P	59 22.00	-2.3		
	0.5s	22.60nm		5.0mb		
GKN	47.77	284 Pd	59 24.90	0.3		
MBL	52.18	203 iPd	59 55.90	-1.0		
	0.5s	44.00nm		5.1mb		
NDI	53.94	287 iPd	00 09.50	0.0		
	0.5s	49.30nm		5.1mb		
WARB	55.06	194 iPd	00 17.10	-0.1		
DZM	56.24	149 iPc	00 26.10	0.6		
HYB	56.36	273 iPd	00 26.00	-0.5		
	1.0s	40.00nm		4.7mb		
MEKA	57.67	202 eP	00 34.00	-1.1		
	0.4s	4.00nm		4.1mb		
G8A	58.85	269 P	00 43.00	-0.4		
FORR	59.33	191 eP	00 45.00	-1.1		
	0.4s	86.00nm		5.4mb		
POO	60.10	276 iPd	00 49.50	-2.1		
	0.7s	38.36nm		4.8mb		
KOD	60.26	266 eP	00 53.30	0.2		
MRWA	60.92	203 iPc	00 56.00	-0.7		
	0.4s	8.00nm		4.5mb		
QUE	62.12	291 iPd	01 04.80	0.0		
	0.8s	25.37nm		4.7mb		
		eS	08 48.30			
INK	63.46	25 ePd	01 11.80	-0.8		
MBC	65.85	15 iPd	01 27.10	-0.4		
	0.5s	26.00nm		5.0mb		
KEV	71.34	340 eP	02 00.00	-0.4		
SOD	72.67	338 iP	02 08.10	0.0		
YKA	72.75	28 eP	02 07.90	-0.7		
	0.5s	9.50nm		4.6mb		
DAG	74.71	355 iPd	02 19.50	0.1		
	0.7s	5.48nm		4.1mb		
KAF	75.57	333 iP	02 24.00	-0.4		
	0.5s	30.00nm		5.0mb		
PNT	76.21	41 eP	02 29.00	0.8		
	0.6s	6.00nm		4.2mb		
NUR	77.13	332 iP	02 32.60	-0.2		
	0.7s	28.00nm		4.8mb		
UPP	80.32	334 iP	02 48.90	-0.7		
SES	80.51	38 ePd	02 51.20	0.3		
NAO	82.14	337 P	02 58.00	-1.0		
	0.7s	23.00nm		4.8mb		
LRM	82.15	42 eP	03 00.90	1.2		
TNP	83.08	51 iP	03 05.50	1.1		
	0.9s	12.70nm		4.5mb		
CLC	83.95	53 eP	03 09.00	0.4		
SBB	84.35	54 eP	03 11.00	0.4		
MWC	84.41	54 eP	03 12.00	0.9		
GSC	84.77	53 eP	03 13.00	0.4		
HRI	85.27	305 eP	03 15.00	-0.1		
PLM	85.71	55 eP	03 18.00	0.7		
TPC	85.91	54 eP	03 18.00	-0.1		
FRB	86.12	12 eP	03 18.00	-0.4		
JVI	86.23	304 eP	03 19.00	-0.6		
KSP	86.82	328 iPc	03 21.80	-0.2		
GLA	87.33	54 eP	03 26.00	1.1		
MBH	87.67	302 eP	03 26.00	-0.6		
SRO	87.82	325 eP	03 26.70	-0.1		
CLL	88.02	330 eP	03 27.00	-0.6		
	1.3s	13.00nm		4.6mb		
ZST	88.18	325 e(P)	03 28.10	-0.4		
PRU	88.22	328 eP	03 28.50	-0.1		
KHC	89.27	328 P	03 33.50	0.0		
CDF	92.67	330 eP	03 48.70	-0.6		
	0.9s	8.20nm		4.8mb		
BSF	93.32	330 eP	03 51.20	-1.1		
	0.9s	6.55nm		4.8mb		
HAU	93.38	330 eP	03 51.50	-1.0		
	0.6s	2.70nm		4.6mb		
LPG	95.10	329 eP	04 00.10	-0.6		
	0.6s	6.30nm		5.0mb		
LDF	95.59	334 eP	04 01.70	-0.7		
	0.5s	2.90nm		4.8mb		
AVF	95.62	331 eP	04 02.80	0.2		
	0.6s	2.70nm		4.7mb		
LPF	96.40	334 eP	04 06.20	0.1		
MAF	96.40	331 eP	04 06.80	0.7		
TIC	131.23	309 PKP	09 47.20	0.4		
KIC	131.24	309 PKP	09 47.30	0.5		
LIC	131.54	309 PKP	09 47.80	0.5		
ZOBO	152.32	71 PKP	10 23.30	-0.4		
	0.8s	7.90nm				
		e	12 40.00			
LPB	152.47	72 ePKP	10 27.00	3.3X		
CNCB	152.70	72 PKP	10 26.00	1.8		
		e	12 42.00			
PDCR	164.65	353 ePKP	10 37.50	0.4		
		e	11 35.40			
S.D. = 0.8		on	90 of 92 obs.			

& JAN 19, 1991 18h 06m 37.43s
62.678 N 150.729 W
DEPTH = 80.7km
CENTRAL ALASKA (1)
<AEIC>.

CUT	0.35	142 iP	06 50.42	0.2		
		eS	07 00.32			
HUR	0.58	59 iP	06 52.28	0.1		
		eS	07 03.13			
SKT	0.79	208 iP	06 54.19	-0.2		
PWA	1.11	158 eP	06 57.93	-0.1		

19d 18h

RND	1.12	49	eP	06 58.13	-0.3
			eS	07 13.64	
SUA	1.22	180	eP	06 59.64	0.0
			eS	07 16.86	
GHO	1.24	136	eP	07 00.17	0.3
			eS	07 18.11	
PLRM	1.32	145	eP	07 00.72	-0.1
NCG	1.45	208	eP	07 02.11	-0.5
			eS	07 21.21	
CGLM	1.50	204	eP	07 02.77	-0.5
			eS	07 22.02	
PMS	1.54	158	iP	07 04.69	0.9
			iS	07 23.24	
CRP	1.57	206	eP	07 03.83	-0.4
BGL	1.62	210	eP	07 04.89	0.0
SPU	1.63	203	iP	07 04.35	-0.6
			eS	07 27.09	
KNK	1.66	139	iP	07 05.30	0.0
CKL	1.67	208	eP	07 05.15	-0.4
NKA	1.96	187	eP	07 11.07	1.8
SLKM	2.19	173	eP	07 13.09	0.5
TOA	2.20	103	eP	07 13.34	0.7
RDT	2.26	202	iP	07 13.49	0.0
CCB	2.37	32	iP	07 13.75	-1.1
NCT	2.37	207	eP	07 13.63	-1.4
RDN	2.38	205	eP	07 14.54	-0.7
SDG	2.40	91	eP	07 16.83	1.4
HDA	2.42	43	iP	07 14.76	-0.9
PAX	2.43	81	eP	07 15.85	-0.1
GLI	2.50	135	eP	07 17.84	1.1
MDM	2.54	25	iP	07 16.47	-0.9
KLU	2.56	116	eP	07 16.78	-0.8

29 obs. associated

JAN 19, 1991 18h 20m 07.15± 0.48s
40.202 N ± 6.0km 25.310 E ± 4.5km
DEPTH = 15.0 ± 3.7 km
AEGEAN SEA (365)
MD 3.1 (ATH), 2.9 (THE).

EZN	0.87	115	iPg	20 22.30	-1.0
			iSg	20 35.30	
RDO	0.96	10	eP	20 24.10	-0.8
			eS	20 38.90	
OUR	1.02	278	ePd	20 26.34	0.3
PRK	1.21	142	eP	20 29.50	0.3
			eS	20 46.60	
PAIG	1.28	258	ePc	20 29.74	-0.6
KDZ	1.45	3	iPd	20 33.00	0.3
			i	20 34.00	
			iS	20 51.00	
RZN	1.55	343	iPg	20 36.00	1.6
			iS	20 55.00	
SRS	1.59	306	ePc	20 34.46	-0.4
			eS	20 58.30	
SDH	1.61	293	ePc	20 35.02	-0.2
			eS	21 00.74	
MMB	1.83	320	iPd	20 38.00	-0.3
			iS	20 59.00	
DIM	1.85	5	iPgd	20 41.00	2.4X
			iSg	21 02.00	
PLD	1.96	347	iPg	20 44.00	3.9X
			iSg	21 10.00	
BNT	2.00	85	ePn	20 42.10	1.3
KNT	2.07	298	ePc	20 41.70	-0.1
GRG	2.34	290	ePd	20 46.46	0.8
KKB	2.37	315	iPg	20 50.00	4.0X
			iS	21 15.00	
			Sg	21 23.00	
JMB	2.46	23	iP	20 43.00	-4.2X
			iSg	21 27.00	
DST	2.62	102	ePn	20 49.60	-0.1
PVL	3.01	0	iP	20 54.00	-1.1

S.D. = 0.9 on 15 of 19 obs.

? JAN 19, 1991 20h 15m 04.55± 3.84s
40.031 N ±24.7km 23.834 E ±19.2km
DEPTH = 5.0km (geophysicist)
GREECE (364)
MD 2.3 (THE).

PAIG	0.16	229	iPd	15 02.55	-5.3X
			eS	15 06.74	
OUR	0.32	20	iPc	15 10.74	-0.3
			eS	15 17.40	
SOH	0.87	335	ePc	15 21.24	-0.6
LIT	1.03	274	iPc	15 24.36	-0.2
			eS	15 40.64	
SRS	1.10	350	ePc	15 25.52	-0.2
			eS	15 43.32	
KNT	1.34	328	ePc	15 30.08	0.4
VTS	2.60	350	eP	15 49.00	0.9
			eSg	16 30.00	

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

• JAN 19, 1991 20h 42m 09.47± 2.11s
45.015 N ±16.1km 3.107 E ±13.8km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
MD 1.9 (STR). ML 1.8 (LDG).

LBL	0.24	25	Pg	42 14.00	-0.5
			Sg	42 17.59	
CAF	0.75	263	Pg	42 23.10	-1.0
			Sg	42 32.40	
			Sn	42 34.80	
RJF	1.16	285	Pg	42 30.40	-0.8
			Sg	43 45.40	
MAF	1.26	343	Pg	42 32.50	-0.5
			Sg	42 48.00	
LPO	1.41	257	Pg	42 36.20	1.1
			Sg	42 53.10	
TCF	1.42	334	Pg	42 35.30	0.0
			Sg	42 51.50	
BGF	1.55	353	Pg	42 37.80	0.6
			Sg	42 56.90	
LSF	1.66	319	Pg	42 39.60	0.9
			Sg	42 59.00	
SMF	1.71	17	Pn	42 38.30	-1.2
			Pg	42 41.00	
			Sg	43 02.20	
AVF	1.78	5	Pg	42 41.80	1.3
			Sg	43 04.00	
LOR	2.31	13	Pg	42 52.00	3.8X
			Sg	43 21.00	

S.D. = 1.0 on 10 of 11 obs.

% JAN 19, 1991 21h 01m 12.31± 1.47s
65.565 N ±17.5km 18.045 E ±23.6km
DEPTH = 10.0km (geophysicist)
SWEDEN (536)
MD 2.8 (BER).

NSS	2.78	251	eP	01 58.57	1.0
			Lg	02 42.53	
KTK1	4.00	28	eP	02 14.85	-0.1
			eS	03 00.27	
TRO	4.10	4	eP	02 16.40	0.1
			eS	03 01.78	
MOL	5.50	242	eP	02 34.82	-1.3
			eS	03 36.48	
NRA0	5.67	214	Pn	02 39.00	0.4
			Sn	03 47.30	
			Lg	04 17.90	

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

JAN 19, 1991 21h 14m 54.36± 0.44s
41.097 N ± 4.1km 22.310 E ± 3.4km
DEPTH = 5.0km (geophysicist)
YUGOSLAVIA (383)
MD 2.3 (THE). ML 2.2 (SKO).

GRG	0.16	154	ePc	14 57.72	0.1
			eS	15 00.52	
VAY	0.30	41	iPg	15 00.60	0.2
			iSg	15 04.80	
KNT	0.45	82	ePd	15 03.56	0.2
			eS	15 10.04	
THE	0.68	133	ePd	15 07.60	-0.4
			eS	15 16.12	
FNA	0.77	246	ePd	15 09.76	-0.1
			iS	15 20.65	
SOH	0.84	109	ePd	15 10.72	-0.3
			iS	15 21.46	
SRS	0.97	88	ePd	15 13.12	-0.1
			eS	15 26.14	
LIT	1.00	172	ePc	15 13.88	0.0
			iS	15 28.32	
SKO	1.09	324	ePg	15 15.00	-0.3
			iSg	15 30.50	
			Lg	15 33.50	
OHR	1.14	271	ePg	15 16.50	0.3
			eSg	15 32.80	
PAIG	1.57	138	ePd	15 23.40	0.5
			iS	15 44.88	

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

? JAN 19, 1991 21h 19m 41.51± 4.50s
4.844 N ±45.6km 76.094 W ±34.4km
DEPTH = 90.0km (geophysicist)
COLOMBIA (103)
MD 2.9 (UVC).

HOBC	0.49	185	iPd	19 56.63	0.1
			eS	20 08.50	
BUGC	0.96	190	eP	20 01.26	0.1
CLMC	1.06	206	eP	20 02.62	0.2
HOOC	1.47	202	eP	20 07.23	-0.3
ANCC	1.53	210	eP	20 07.40	-0.7
DIAC	1.55	184	eP	20 07.74	-0.7
SALC	1.95	198	eP	20 15.04	1.2

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

& JAN 19, 1991 21h 36m 05.73s
60.087 N 153.185 W
DEPTH = 0.1km
3.3mb (1 obs.)
SOUTHERN ALASKA (2)
<AEIC>.

INE	0.07	113	iP	36 06.89	-0.2
RED	0.39	32	eP	36 14.03	0.5
			eS	36 19.94	
RS2	0.43	29	iP	36 15.21	0.8
RSO	0.43	30	iP	36 15.16	0.8
OPT	0.44	183	iP	36 14.77	0.3
			eS	36 23.62	
REF	0.47	31	eP	36 15.66	0.5
RDN	0.48	26	iP	36 15.95	0.7
NCT	0.49	15	eP	36 16.21	0.6
PDB	0.59	240	iP	36 17.82	0.3
			eS	36 26.34	
RDT	0.62	38	iP	36 18.20	0.0
AUE	0.74	187	eP	36 20.00	-0.4
AUH	0.74	190	eP	36 21.12	0.7
AUP	0.74	189	eP	36 21.08	0.6
AUI	0.76	189	eP	36 21.12	0.1
HOM	0.89	118	eP	36 23.12	-0.3
NNL	0.95	92	eP	36 24.87	0.3
XLV	0.98	130	eP	36 25.08	-0.1
MCNL	1.08	213	eP	36 25.96	-1.0
			eS	36 41.50	
CNPM	1.13	119	eP	36 26.27	-1.6
CDD	1.18	192	eP	36 27.89	-0.9
CKL	1.19	20	iP	36 28.48	-0.4
BRLK	1.20	105	eP	36 27.61	-1.5
SPU	1.23	26	eP	36 28.63	-1.0
BGL	1.24	18	eP	36 29.65	-0.2
			eS	36 46.90	
CGLM	1.36	25	eP	36 31.21	-0.5
NCG	1.41	20	eP	36 32.63	-0.1
SLKM	1.54	73	eP	36 33.01	-1.5
			eS	36 52.32	
SUA	1.83	40	eP	36 38.58	-0.2
SEW	1.87	88	eP	36 39.47	0.2
SKT	2.06	22	eP	36 43.40	1.3
			eS	37 10.87	
PMS	2.13	55	eP	36 44.61	1.6
PWA	2.25	44	eP	36 45.66	0.9
			eS	37 17.24	
PLRM	2.49	51	eP	36 49.50	1.3
GHO	2.68	49	eP	36 52.44	1.5
CUT	2.72	30	eP	36 54.00	2.6
KLU	3.83	65	eP	37 06.78	-0.6
YKA	18.50	66	eP	40 22.70	-2.1
	0.9s		1.80nm		3.3mb

37 obs. associated

JAN 19, 1991 21h 44m 00.65± 0.66s
22.558 S ± 6.3km 179.560 W ± 5.8km
DEPTH = 600.3 ± 10.0 km
5.0mb (16 obs.)
SOUTH OF FIJI ISLANDS (171)

SGE	5.48	334	eP	45 38.20	0.2
DZM	12.96	269	iPc	46 54.30	5.4X
HBZ	15.10	187	eP	47 10.50	1.0
PUZ	15.58	186	eP	47 15.20	1.1
WLZ	15.79	194	P	47 20.40	4.2X
NOZ	16.14	187	eP	47 20.80	1.3
MNG	18.49	192	eP	47 41.30	-0.5

MTW	19.01	192	eP	47	45.80	-0.8
MRW	19.24	193	eP	47	48.20	-0.4
TCW	19.31	194	eP	47	48.80	-0.5
THZ	20.17	197	eP	47	57.40	0.1
KHZ	20.63	195	eP	48	01.00	-0.3
	0.3s	17.00nm			5.2mb	
LTZ	21.29	197	P	48	06.70	-0.7
MMCZ	24.23	200	eP	48	33.10	-0.8
MHZ	24.24	200	P	48	33.20	-0.7
BRS	25.51	253	iPc	48	46.60	1.4
COO	26.70	247	iPd	48	57.20	1.6
	0.5s	21.00nm			5.0mb	
RMQ	29.05	256	iPd	49	17.30	1.4
	0.8s	99.00nm			5.5mb	
PMO	30.86	81	iP	49	30.70	-0.5
	0.9s	20.00nm			4.7mb	
VAH	31.03	82	iP	49	32.00	-0.6
	0.9s	15.00nm			4.6mb	
TPT	31.12	82	iP	49	32.90	-0.5
	0.9s	35.00nm			5.0mb	
RUV	31.27	82	iP	49	34.10	-0.6
	0.9s	35.00nm			5.0mb	
QIS	37.95	265	iPd	50	29.60	-0.4
ASPA	42.67	259	iPd	51	07.40	-0.4
	0.6s	56.10nm			5.3mb	
		iS		56	47.20	
MTN	47.77	273	eP	51	45.50	-1.4
	0.3s	98.00nm			5.8mb	
WARB	48.85	254	iPd	51	54.40	-0.5
	0.2s	5.00nm			4.7mb	
KNA	49.09	268	iPd	51	56.20	-0.4
	0.4s	59.00nm			5.5mb	
MBL	55.92	259	iPd	52	44.40	-1.0
	0.4s	37.00nm			5.1mb	
MEKA	55.97	252	eP	52	44.50	-1.2
	0.4s	7.00nm			4.3mb	
MRWA	57.74	249	eP	52	57.00	-0.6
	0.5s	8.00nm			4.2mb	
AIA	79.65	157	e(P)	55	10.00	2.5
PRS	80.30	44	eP	55	12.00	0.6
BRK	80.68	42	e(P)	55	13.50	0.3
MHC	80.74	43	eP	55	14.30	0.6
FRI	81.77	44	eP	55	18.50	-0.2
CMB	81.95	43	eP	55	19.70	-0.1
ORV	82.17	41	eP	55	20.90	0.1
WDC	82.18	40	eP	55	21.50	0.8
TNP	84.01	45	P	55	30.00	-0.2
PNT	89.16	35	eP	55	54.00	0.0
	0.8s	6.00nm			4.6mb	
CHG	89.59	290	iPd	55	58.00	1.4
	0.9s	16.81nm			5.0mb	
YKA	98.98	25	eP	56	35.20	-3.2X
	0.4s	0.10nm			3.6mb X	
NAO	141.08	352	PKP	02	18.10	-6.5X
	0.7s	1.80nm				
LWI	142.94	232	iPKP-	02	28.60	-0.9
HRI	147.17	297	ePKP	02	39.00	3.3X
DSI	147.73	294	iPKPd	02	40.10	3.5X
RMN	148.50	292	iPKPd	02	42.20	4.3X
KSP	149.18	340	iPKPd	02	42.70	4.5X
CLL	149.68	344	iPKPd	02	43.80	4.9X
	0.8s	13.00nm				

S.D. = 0.9 on 40 of 49 obs.

JAN 19, 1991 22h 00m 49.26± 1.36s
41.502 N ± 9.7km 141.426 E ± 6.5km
DEPTH = 84.0 ± 12.7 km
4.5mb (28 obs.)
HOKKAIDO, JAPAN REGION (224)

MAT	5.55	208	eP	02	13.00	2.0
	0.6s	15.33nm			4.4mb	
		eS		03	15.00	
MDJ	9.21	294	Pc	03	00.00	-1.3
	1.0s	80.00nm			5.5mb	
CN2	11.99	286	eP	03	40.00	1.4
SNY	13.35	277	eP	03	59.80	3.3X
BJI	19.17	274	eP	05	07.00	-1.7
	1.0s	18.00nm			4.3mb	
SSE	19.29	244	P	05	09.50	-0.5
	1.0s	25.00nm			4.5mb	
		pP		05	16.50	26kmX
TIA	19.62	262	eP	05	12.20	-1.3
NJ2	20.34	250	Pd	05	19.50	-1.4
TIY	22.61	270	Pc	05	43.40	-0.2
XAN	26.64	264	P	06	20.50	-1.3
GTA	31.52	280	P	07	05.20	-0.1
	0.8s	10.00nm			4.6mb	
CD2	31.96	263	eP	07	07.50	-1.6
WMO	39.00	292	Pd	08	10.40	1.4
TTA	41.81	38	eP	08	32.30	0.5
LSA	42.01	270	eP	08	35.70	1.4
CHTO	42.58	251	P	08	38.80	0.3
IMA	42.89	33	eP	08	41.00	0.4
	0.6s	5.80nm			4.6mb	
PMR	45.10	39	e(P)	08	58.00	-0.3
FBA	45.37	34	eP	09	00.80	0.4
GUN	46.89	272	P	09	13.58	0.3
KKN	47.40	272	P	09	17.34	0.2
PKI	47.42	271	P	09	17.66	0.2
DMN	47.63	272	P	09	19.26	0.3
	0.4s	17.00nm			5.2mb	
GKN	47.77	272	P	09	20.08	0.1
	0.4s	45.00nm			5.7mb X	
INK	50.44	29	eP	09	39.80	0.1
	0.4s	14.00nm			5.3mb	
MBC	52.25	17	ePd	09	53.00	-0.4
	0.5s	4.00nm			4.7mb	
QUE	59.71	285	eP	10	47.30	-0.3
YKA	59.97	31	eP	10	46.80	-1.8
	0.8s	3.00nm			4.5mb	
WRA	61.48	188	P	11	04.00	4.7X
	0.4s	1.80nm			4.5mb	
GBA	61.67	263	Pd	10	59.50	-1.2
	0.5s	1.20nm			4.2mb	
KAF	64.36	332	eP	11	17.20	-0.6
	0.5s	3.30nm			4.5mb	
PNT	65.00	46	eP	11	21.00	-1.2
	0.7s	6.00nm			4.6mb	
NUR	66.03	331	eP	11	27.70	-0.8
SES	68.75	41	ePd	11	44.70	-1.2
NAO	70.37	337	P	11	55.10	-0.4
	0.5s	3.90nm			4.6mb	
LRM	70.97	45	ePd	11	59.10	-0.7
FRB	72.43	13	ePd	12	06.70	-1.0
TNP	73.22	54	P	12	12.20	-0.9
PRU	77.69	328	eP	12	28.00	-9.9X
			e	12	39.00	
ALO	81.72	50	eP	13	00.00	0.0
	0.9s	4.20nm			4.3mb	
LOR	83.93	332	eP	13	11.30	0.4
	0.7s	5.50nm			4.7mb	
FLN	84.04	336	eP	13	12.80	1.4
LBF	84.13	332	eP	13	12.10	0.1
SSF	84.23	333	eP	13	12.90	0.5
	0.7s	2.75nm			4.4mb	
LPL	84.38	330	eP	13	14.20	0.7
	0.6s	2.70nm			4.4mb	
LPG	84.39	330	eP	13	14.40	0.8
	0.6s	3.25nm			4.5mb	
SMF	84.47	332	eP	13	14.30	0.7
	0.7s	2.75nm			4.4mb	
AVF	84.51	333	eP	13	14.50	0.7
	0.7s	4.95nm			4.6mb	
MAF	85.28	333	eP	13	18.70	1.0
	0.6s	4.50nm			4.6mb	
TCF	85.34	333	eP	13	18.80	0.8
	0.7s	3.30nm			4.4mb	
LSF	85.61	333	eP	13	20.00	0.7
	0.7s	6.60nm			4.8mb	
MFF	85.85	335	eP	13	21.40	0.9
	0.6s	3.60nm			4.6mb	
RJF	86.44	333	eP	13	23.90	0.5
	0.9s	4.90nm			4.6mb	
CAF	86.58	332	eP	13	25.60	1.4
	0.7s	3.30nm			4.5mb	
SOB1	147.77	4	ePKP	20	27.90	4.7X
PDCR	151.14	1	ePKP	20	33.60	5.4X

S.D. = 1.0 on 51 of 56 obs.

? JAN 19, 1991 22h 28m 27.24± 1.00s
5.615 S ±25.7km 105.691 E ±28.9km
DEPTH = 33.0km (normal)
4.8mb (2 obs.)
SUNDA STRAIT (276)

CHTO	25.17	345	P	33	52.20	0.9
ASPA	32.55	126	eP	34	56.40	-1.3
	1.3s	8.40nm			4.5mb	
		eS		40	10.90	
GBA	33.93	304	P	35	09.20	-0.6
PKI	38.37	330	P	35	45.96	-1.7
GUN	38.43	331	P	35	47.56	-0.6
DMN	38.56	330	P	35	49.28	0.2
KKN	38.62	330	P	35	49.60	0.0
GKN	39.11	330	P	35	53.26	-0.4
MLR	86.82	316	eP	41	13.00	3.1X
BCAO	87.61	275	iPc	41	15.00	0.8
	0.6s	6.00nm			5.0mb	
YKA	116.01	20	ePKP	47	10.70	2.6
	0.9s	0.70nm				

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

JAN 19, 1991 22h 56m 26.00± 0.10s
5.576 S ± 2.5km 148.331 E ± 2.7km
DEPTH = 163.4km (geophysicist)
5.9mb (61 obs.)
NEW BRITAIN REGION (192)

Depth from broadband displacement seismograms.
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=130 Dip=70 Slip= -90
NP2: 310 20 -90
Principal Axes:
T Plg=25 Azm=220
P 65 40
Comment: The focal mechanism is moderately well controlled and corresponds to normal faulting. The preferred fault plane is NP1.
RADIATED ENERGY
No. of sta: 5 Focal mech. F
Energy 3.1±1.2*10**12 Nm
MOMENT TENSOR SOLUTION
Dep 162 No. of sta: 13
Moment Tensor; Scale 10**17 Nm
Mrr=-1.83 Mtt= 1.21
Mff= 0.63 Mrt=-1.53
Mrf= 1.89 Mtf=-1.24
Principal axes:

T	Val= 3.30	Plg=25	Azm=222
N	-0.28	8	316
P	-3.02	64	62

Best Double Couple:Mo=3.2*10**17
NP1:Strike=295 Dip=21 Slip=-112
NP2: 139 71 -82
CENTROID, MOMENT TENSOR (HRV)
Doto Used: GDSN
L.P.B.: 16S, 30C
Centroid Locotion:
Origin Time 22:56:33.4 0.5
Lot 5.51S 0.05 Lon 148.22E 0.03
Dep 166.4 1.1 Half-duration 2.5
Moment Tensor; Scale 10**17 Nm
Mrr=-2.38 0.09 Mtt= 1.05 0.12
Mff= 1.32 0.13 Mrt=-0.93 0.10
Mrf= 2.40 0.10 Mtf=-0.50 0.12
Principal Axes:

T	Val= 2.92	Plg=26	Azm=242
N	0.73	4	334
P	-3.64	64	72

Best Double Couple:Mo=3.3*10**17
NP1:Strike=321 Dip=20 Slip=-103
NP2: 155 71 -85

YYYY	2.44	254	iPd	57	10.00	2.3
PMG	3.98	197	iPc+	57	27.40	0.4
MNDI	4.68	263	e(P)	57	35.00	-1.5
JAY	8.19	291	ePc	58	24.00	1.0
SVO	11.93	108	eP	59	12.00	0.0
			eS	01	29.00	
HNR	12.14	109	iPd-	59	14.50	-0.2
			iS	01	41.00	
QIS	17.13	209	iPc	00	17.40	0.1
			eS	03	39.00	
MTN	18.44	246	iPc	00	31.70	-0.1
GUA	19.29	350	eP	00	42.20	1.5
	1.2s	2137.50nm			6.4mb	
PJG	19.35	350	eP	00	42.20	0.9
AAI	20.16	274	eP	00	50.00	0.5
RMO	20.80	179	iPc	00	56.80	0.9
			i	04	49.00	
QLP	21.25	190	iPc	01	01.50	1.1
KNA	21.70	241	iPc	01	05.20	0.4
BRS	22.10	169	iPc	01	09.20	0.5
			ipP	01	30.00	98kmX
			iS	05	00.00	
			eScP	08	23.00	
ASPA	22.73	216	iPd	01	16.10	1.3
	0.8s	1465.60nm			6.5mb	

19d 23h

Z	19s		4.20um			4.9Msz
			iS	05	11.90	
			iScS	12	11.30	
DZM	24.00	135	iPd	01	27.90	0.8
			iS	05	39.80	
			ScP	08	30.70	
KUPT	24.90	258	ePd	01	37.00	1.5
	0.6s		574.20nm			6.3mb
			eS	06	02.50	
COO	25.09	173	iPc	01	37.20	0.0
	0.4s		31.00nm			5.2mb
			i	02	21.60	231kmX
			e	08	32.00	
			eTT	18	04.50	
CMS	25.88	185	iPc	01	44.30	-0.1
DAV	25.96	299	eP	01	45.90	0.6
WARB	29.14	223	iPc	02	14.50	0.6
CNB	29.61	178	iPd	02	18.60	0.7
	1.0s		160.00nm			5.7mb
ADE	30.57	196	iPc	02	26.10	-0.3
	0.6s		106.67nm			5.7mb
SGE	31.29	115	eP	02	32.30	-0.7
FORR	31.52	215	iPc	02	34.20	-0.4
MBL	31.67	238	iPc	02	35.70	-0.4
BFD	31.89	189	iPc	02	38.00	0.2
	0.7s		75.00nm			5.6mb
			eTT	18	08.00	
VUN	31.91	115	ePd	02	37.10	-1.1
TOO	31.95	184	iPc	02	39.00	0.6
	0.8s		122.00nm			5.7mb
			i	05	24.70	
			e	08	54.00	
			eTT	18	22.00	
QCP	33.67	307	eP	03	13.00	19.6X
CVP	34.93	312	eP	03	04.50	0.4
BAG	35.08	309	eP	03	05.50	-0.2
			eS	08	24.00	
MEKA	35.29	230	iPc	03	07.60	0.5
COOL	35.86	222	iPc	03	11.90	0.0
	0.2s		30.00nm			5.6mb
PIP	36.21	312	iPc	03	18.50	3.6X
MRWA	38.55	229	iPc	03	34.80	0.3
	0.5s		54.00nm			5.5mb
KLB	38.59	224	iPc	03	34.60	-0.1
BAL	38.77	226	eP	03	36.00	-0.3
NWAO	39.73	223	iPc	03	44.10	0.0
	0.7s		110.00nm			5.6mb
MUN	39.89	225	iPc	03	45.80	0.4
	0.7s		308.00nm			6.1mb
CNZ	41.54	148	P	04	00.30	1.3
NGZ	41.55	148	P	04	00.40	1.3
WHH	41.82	146	P	04	01.40	0.1
QZH	41.92	318	Pd	04	03.70	1.6
	0.8s		370.00nm			6.0mb
			pP	04	38.50	157kmX
			iS	10	09.00	
HBZ	41.97	144	P	04	02.10	-0.3
	0.6s		107.00nm			5.6mb
THZ	42.16	152	P	04	03.90	-0.1
PUZ	42.26	144	P	04	04.70	-0.1
TCW	42.39	151	P	04	06.00	0.3
KIW	42.44	150	P	04	06.10	0.0
TTH	42.47	147	P	04	06.80	0.4
NOZ	42.50	145	P	04	06.80	0.1
SHK	42.54	341	eP	04	07.50	0.5
MNG	42.54	149	P	04	07.00	0.0
			e	05	55.00	630kmX
MSZ	42.55	159	P	04	08.10	1.2
MRW	42.61	150	P	04	07.30	-0.2
WEL	42.68	150	P	04	08.00	-0.1
	1.4s		136.93nm			5.4mb
			S	10	12.00	
LTZ	42.69	154	P	04	07.20	-1.0
			e	05	55.90	636kmX
WDW	42.78	150	P	04	08.60	-0.3
PGZ	42.95	148	P	04	09.90	-0.4
	0.8s		178.00nm			5.7mb
MTW	42.95	150	P	04	09.90	-0.4
MAJO	42.96	348	iPd	04	11.59	1.2
			epPc	04	48.83	170kmX
			eS	10	25.41	
MAT	42.96	348	iPd	04	11.20	0.8
	1.5s		861.11nm			6.1mb
			eS	10	20.00	
KHZ	42.97	152	P	04	09.60	-0.8
	0.8s		133.00nm			5.6mb
BLW	43.10	150	P	04	11.10	-0.4
MMCZ	43.27	158	P	04	12.80	-0.2
MHZ	43.37	158	P	04	13.40	-0.4
MQZ	43.60	154	P	04	15.20	-0.3
GZH	44.50	311	Pd	04	25.00	2.1
			pP	05	05.00	183kmX
			eS	10	44.00	
SSE	44.75	326	iPd	04	26.00	1.2
	5.0s		800.00nm			5.6mb X
Z	20s		0.90um			4.7Msz
N	13s		0.60um			
E	14s		0.70um			
			PcP	06	04.00	
			S	10	48.00	
QIZ	45.11	304	eP	04	28.00	0.1
			pP	05	04.00	162kmX
			eS	10	55.00	
			sS	12	00.00	
KGM	45.58	278	eP	04	32.00	0.3
NJ2	46.78	325	iPd	04	42.00	1.2
	1.1s		200.00nm			5.6mb
			ipP	05	19.00	166kmX
			ScP	09	49.00	
			iS	11	22.00	
IPM	48.31	281	ePd	04	53.20	0.2
WHN	48.45	320	Pc	04	56.50	2.7
	1.2s		100.00nm			5.3mb
			pP	05	33.50	164kmX
			S	11	47.00	
			sS	12	50.00	
SNG	49.27	284	eP	05	14.10	13.8X
			eS	11	54.00	
DL2	50.70	333	iPd	05	12.00	1.2
	2.0s		800.00nm			6.0mb
Z	20s		0.60um			4.6Msz
			eS	12	12.00	
TIA	50.82	327	Pd	05	11.70	-0.1
	1.3s		400.00nm			5.9mb
			pP	05	50.20	170kmX
			S	12	09.00	
LOE	51.37	297	eP	05	15.50	-0.8
GYA	51.41	310	P	05	17.40	0.8
			S	12	26.00	
NST	52.18	295	eP	05	25.90	3.6X
SNY	52.31	337	iPd	05	23.40	0.6
	3.0s		1200.00nm			6.1mb
			S	12	37.00	
MDJ	52.73	343	iPd	05	27.00	1.1
	1.2s		400.00nm			6.0mb
			pP	06	06.00	172kmX
			sP	06	24.00	
			S	12	38.00	
			sS	13	44.00	
			SS	16	28.00	
CN2	53.32	339	iPd	05	30.40	0.2
	5.0s		600.00nm			5.6mb X
			epP	06	06.00	155kmX
			PcP	06	33.00	
			ScP	10	15.00	
			S	12	48.00	
BDT	53.74	296	eP	05	33.60	-0.1
BJI	54.19	330	ePd	05	36.81	0.1
	1.5s		210.00nm			5.7mb
Z	22s		0.92um			4.8Msz
			epPc	06	15.04	167kmX
			eS	12	58.00	
XAN	54.21	319	P	05	37.00	-0.1
			S	13	00.00	
CHG	54.35	298	eP	05	38.10	-0.2
CHTO	54.35	298	eP	05	37.05	-1.2
			epPc	06	14.46	163kmX
TIY	54.50	325	Pc	05	39.80	0.7
	1.2s		100.00nm			5.5mb
Z	24s		0.80um			4.7MszX
			pP	06	17.00	162kmX
			S	13	06.00	
CD2	55.94	313	P	05	49.30	-0.3
			ipP	06	28.00	168kmX
			S	13	21.80	
			sS	14	31.50	
HHC	57.18	327	Pc	05	58.20	0.0
	1.0s		120.00nm			5.7mb
BTO	57.85	326	P	06	03.50	0.6
			pP	06	42.00	165kmX
			S	13	50.00	
LZH	58.76	318	ePd	06	10.34	0.9
	4.0s		450.00nm			5.7mb X
Z	30s		0.69um			4.6MszX
N	12s		0.51um			
			epPc	06	48.74	164kmX
			eS	13	55.80	
			e	14	02.26	
			esS	14	46.79	
HIA	60.03	339	iPd	06	18.48	0.8
			epPc	06	57.55	167kmX
			eS	14	19.10	
			esS	15	22.83	
AFR	61.55	107	iP	06	28.60	0.2
	1.1s		370.00nm			6.2mb
PAE	61.75	107	iP	06	30.00	0.3
	1.1s		260.00nm			6.0mb
PPT	61.75	107	iP	06	30.30	0.6
	1.1s		350.00nm			6.2mb
PPN	61.88	107	iP	06	30.80	0.2
	1.1s		260.00nm			6.0mb
SMY	62.06	17	eP	06	32.00	0.8
TVO	62.07	107	iP	06	32.40	0.5
	1.1s		415.00nm			6.2mb
TBI	62.32	113	iP	06	34.10	0.7
	1.1s		740.00nm			6.5mb
PMO	63.26	104	iP	06	40.20	0.5
	1.1s		885.00nm			6.6mb
GTA	63.27	319	iPd	06	40.00	0.4
	9.0s		330.00nm			5.2mb X
Z	18s		0.60um			4.8Msz
			PcP	07	14.80	
			pP	07	20.00	169kmX
			eS	15	01.00	
			ScS	16	14.00	
VAH	63.52	104	iP	06	41.60	0.2
	1.1s		370.00nm			6.2mb
TPT	63.53	104	iP	06	41.70	0.2
	1.1s		555.00nm			6.4mb
RUV	63.76	104	iP	06	43.20	0.2
	1.1s		445.00nm			6.3mb
ADK	64.55	23	iPd	06	48.00	0.5
	1.6s		2100.80nm			6.8mb
LSA	65.05	306	Pd	06	51.80	0.1
			pP	07	31.00	165kmX
			S	15	16.00	
GUN	68.75	303	Pd	07	14.26	-0.6
PKI	69.04	302	Pd	07	15.58	-1.0
KKN	69.21	302	Pd	07	16.68	-0.9
	0.7s		31.00nm			5.2mb
DMN	69.30	302	Pd	07	17.38	-0.8
	0.6s		39.00nm			5.4mb
GKN	69.82	302	Pd	07	20.22	-1.0
	0.6s		36.00nm			5.4mb
KOD	72.29	283	eP	07	43.00	6.7X
HYB	72.56	290	eP	07	36.40	-1.1
SBA	72.88	176	iPd	07	39.50	1.2
GBA	72.89	286	P	07	39.00	-0.4
WMQ	73.34	319	ePd	07	42.28	0.6
	1.0s		100.00nm			5.5mb
			epPc	08	21.18	159kmX
			eS	16	58.23	
SDN	73.90	28	eP	07	44.30	-0.2
RKT	75.61	112	iP	07	55.20	0.3
	1.2s		370.00nm			6.0mb
NDI	76.29	301	eP	07	57.00	-1.7
POO	77.16	290	eP	07	51.50	-12.2X
TTA	80.15	23	iPd	08	19.60	0.5
SLKM	81.28	26	P	08	24.80	-0.2
			pP	09	07.60	173kmX
PMR	82.26	25	iPd	08	29.70	-0.2
	0.9s		374.10nm			6.1mb
IMA	82.70	20	iPd	08	32.70	0.3
	1.2s		249.70nm			5.9mb
TOA	83.74	26	ePd	08	38.20	0.6
FBA	84.28	23	iPd	08	39.20	-1.0
SPA	84.46	180	iPd	08	41.50	0.2
	1.0s		35.00nm			5.1mb
BRW	84.66	15	ePd	08	42.80	0.9
YAH	85.06	28	P	08	37.60	-6.9X
QUE	85.36	301	eP	08	45.90	-0.7
	0.9s		20.59nm			4.9mb
			e	09	26.40	161kmX
			eS	18	54.20	
SIT	87.27	32	eP	08	55.80	0.8
INK	90.78	21	iP	09	10.50	-0.8
	1.0s		165.00nm			6.1mb
MAIO	92.32	306	eP	09	19.00	-0.2
			eS	19	26.00	
BRK	92.92	52	eP	09	22.10	0.4
WDC	92.92	50	iPc	09	22.30	0.6

			ePP	13	07.80		CLL	121.29	329	iPKPc	15	00.00	-1.0	FLN	129.48	334	ePKP	15	15.80	-1.0
BKS	92.94	52	eP	09	22.20	0.4		1.1s		32.00nm					1.2s		59.50nm			
	1.2s	150.00nm				6.1mb	KHC	122.21	327	iPKPc	15	02.20	-0.7		Z 20s		0.20um			4.8Msz
PGC	92.96	42	eP	09	22.00	0.3		1.0s		14.00nm				PLDF	129.48	329	PKP	15	16.39	-0.7
GCC	93.06	53	ePc	09	23.00	0.6				e	16	43.00		LMR	129.56	324	ePKP	15	16.20	-1.0
MHC	93.36	53	ePc	09	24.20	0.2	MOX	122.39	329	ePKPc	15	02.00	-1.2		1.1s		34.20nm			
SAO	93.48	54	eP	09	24.80	0.4		1.1s		22.00nm				LRG	129.58	324	ePKP	15	16.30	-0.9
PRS	93.50	54	ePc	09	25.40	0.9				e	16	40.00			1.0s		52.00nm			
MIN	93.62	50	ePc	09	24.80	-0.3				e	17	25.00			Z 20s		0.15um			4.7Msz
ORV	93.64	51	iPc	09	25.30	0.2	WET	122.59	327	iPKPc	15	02.90	-0.7	MAF	129.85	329	ePKP	15	16.70	-1.0
			ePP	13	11.70			1.2s		34.00nm					1.3s		28.90nm			
LLA	93.87	54	ePc	09	26.90	0.7	VBY	123.14	322	e(PKP)	15	04.20	-0.5	GRR	129.92	334	ePKP	15	16.60	-1.1
PRI	94.06	54	ePc	09	28.30	1.1	GRF	123.16	328	ePKPc	15	04.10	-0.6		1.1s		39.05nm			
CMB	94.41	52	iPc	09	29.00	0.3				e(PP)	17	30.00		PYM	129.94	329	PKP	15	17.14	-0.8
			ePP	13	15.40		LJU	123.30	323	e(PKP)	15	03.70	-1.4	TCF	129.98	330	ePKP	15	17.10	-0.9
SYP	94.51	56	eP	09	30.00	0.6	SCH	123.36	23	ePKP	15	04.00	-0.9		1.0s		38.00nm			
FRI	94.88	53	iPc	09	31.20	0.4	WIT	123.41	333	ePKP	15	05.50	0.5	BCAO	129.99	271	iPKPc	15	13.30	-5.6X
PNT	95.53	41	ePd	09	33.00	-0.5	VOY	123.69	323	e(PKP)	15	05.00	-1.0		1.1s		17.00nm			
	1.1s	113.00nm				6.1mb	WTS	123.89	332	ePKP	15	05.50	-0.5				id	16	16.20	
ISA	95.81	55	eP	09	35.00	-0.2		0.8s		13.00nm				LBL	130.17	328	PKP	15	17.80	-0.4
MBC	95.93	14	eP	09	34.00	-0.8	FVI	124.05	324	PKP	15	07.00	0.5	LPF	130.27	333	ePKP	15	17.80	-0.6
	1.0s	22.00nm				5.5mb	SOTA	124.60	326	iPKPc	15	06.00	-1.7		1.0s		72.00nm			
PAS	95.99	56	eP	09	36.00	0.1		0.8s		28.80nm				LSF	130.35	330	ePKP	15	17.50	-1.1
MWC	96.08	56	eP	09	37.00	0.4				i	15	21.10			1.0s		18.00nm			
SBB	96.30	56	eP	09	38.00	0.6				i	15	26.80		MFF	130.91	332	ePKP	15	18.80	-0.9
			e	13	31.00					e	17	15.00			0.9s		11.45nm			
CLC	96.53	55	eP	09	39.00	0.6	ORI	124.88	316	PKP	15	10.00	1.7	CAF	130.99	328	ePKP	15	19.30	-0.6
			e	13	30.00		GAC	124.90	36	ePKP	15	07.50	-0.6		1.1s		20.75nm			
RVR	96.64	57	eP	09	39.00	0.1		0.9s		10.00nm				RJF	131.01	329	ePKP	15	19.00	-0.9
PEC	96.81	57	P	09	40.10	0.4	ABH	124.92	330	ePKP	15	07.46	-0.7		0.8s		8.05nm			
TNP	96.91	52	P	09	40.30	0.0	CTI	125.00	324	PKPc	15	09.00	0.5	LPO	131.61	329	ePKP	15	20.40	-0.7
	1.1s	19.16nm				5.4mb	ENN	125.13	332	iPKPd	15	08.30	-0.1		0.9s		32.75nm			
PLM	97.04	57	eP	09	42.00	1.1		1.0s		54.00nm				LFF	131.66	329	ePKP	15	20.60	-0.5
			e	13	38.00		TDS	125.13	315	PKP	15	10.00	1.2		0.9s		16.40nm			
NEW	97.16	42	iPc	09	41.20	0.3	EKA	125.38	340	PKPc	15	09.80	1.0	EPF	133.20	328	ePKP	15	23.30	-0.9
	1.0s	42.00nm				5.8mb		1.0s		35.40nm					0.9s		9.85nm			
			pP	10	27.00	183kmX	SGO	125.45	317	PKP	15	10.20	0.8	ARE	134.94	120	ePKP	15	15.00	-13.5X
			sP	11	01.50		ARV	125.58	321	PKPc	15	11.50	1.9	SALC	135.03	91	ePKP	15	14.51	-14.2X
			PP	13	35.00		LNV	125.63	139	ePKPc	15	09.40	-0.6	HOOC	135.13	91	ePKP	15	14.40	-14.6X
GSC	97.16	55	eP	09	42.00	0.7	CDF	126.00	329	ePKP	15	08.90	-1.5	PURC	135.31	92	ePKP	15	17.48	-12.2X
			e	13	38.00			1.0s		16.00nm				SILC	135.36	92	ePKP	15	16.15	-13.5X
BAR	97.18	58	eP	09	42.00	0.6	SFI	126.03	322	PKP	15	12.00	1.6	DIAC	135.56	91	ePKP	15	15.09	-14.6X
TPC	97.74	56	eP	09	44.00	0.1	TACH	126.12	139	ePKP	15	10.50	-0.5	HOBC	135.69	89	ePKP	15	16.16	-13.7X
			e	13	42.00		PCH	126.42	139	ePKP	15	11.00	-0.7	GUD	137.25	329	ePKP	15	32.20	0.1
YKA	98.18	28	eP	09	44.20	-1.0	SAN	126.43	139	ePKP	15	06.50	-5.1X	CNCB	137.77	122	PKP	15	21.00	-13.3X
	0.9s	39.80nm				5.9mb	FIR	126.47	322	ePKP	15	11.00	-0.3				i	18	54.00	
GLA	98.74	58	eP	09	49.00	0.6	ROCH	126.50	138	ePKP	15	10.50	-1.5	EVIA	137.79	325	ePKP	15	32.70	-0.4
EDM	99.42	37	ePc	09	51.00	-0.1	RMP	126.58	319	PKP	15	12.20	0.6	LPB	137.80	122	ePKP	15	23.00	-11.1X
LRM	100.40	45	ePdiff	09	55.30	-0.7	BSF	126.62	329	ePKP	15	09.90	-1.7		1.0s		100.00nm			
SES	101.05	40	ePdiff	09	58.00	-0.5		1.0s		56.00nm							i	15	36.00	
	1.0s	48.00nm				6.1mb	BDI	126.72	323	PKP	15	11.50	-0.4	ZOBO	137.91	122	PKPd	15	22.80	-11.7X
BW06	102.66	48	Pdiff	10	05.30	-0.8	HAU	126.73	329	ePKP	15	09.90	-1.8		1.0s		62.50nm			
	1.1s	32.34nm				6.0mb		1.0s		48.00nm							i	18	55.80	
PV09	103.26	52	Pdiff	10	09.20	0.3	FCH	126.75	139	ePKP	15	12.50	-0.1	CCH	139.01	125	PKP	15	26.40	-9.8X
ALQ	105.64	55	ePdiff	10	19.00	-0.4	VAI	126.75	326	PKP	15	12.00	0.3	SDV	141.22	83	iPKPc	15	34.60	-5.5X
ANMO	105.64	55	Pdiff	10	17.30	-2.1	PII	126.95	322	PKP	15	12.00	-0.2	TOV	142.00	81	ePKP	15	35.40	-5.9X
	1.1s	2.85nm				5.3mb	BOB	127.01	324	PKP	15	13.50	1.1	ITB7	142.45	145	ePKP	15	37.00	-4.7X
FFC	105.85	35	ePdiff	10	20.00	0.4	ORO	127.34	326	PKP	15	13.50	0.4	ITB	142.68	145	e(PKP)	15	38.00	-4.1X
	0.9s	16.00nm				6.1mb	CKI	127.88	324	PKP	15	14.00	0.0	ITB1	142.69	145	e(PKP)	15	37.50	-4.6X
GOL	106.08	50	Pdiff	10	22.20	0.8	MDZ	127.96	140	e(PKP)	15	09.40	-5.2X	IFR	142.84	322	iPKPc	15	38.00	-4.4X
	1.1s	6.09nm				5.6mb	LPL	128.10	326	ePKP	15	13.70	-1.0	PORP	143.68	67	iPKP	15	39.80	-4.2X
GLD	106.19	50	Pdiff	10	21.90	0.2		1.0s		18.00nm				CPD	144.34	67	iPKP	15	42.50	-2.6
	1.0s	18.00nm				6.2mb	LPG	128.10	326	ePKP	15	13.70	-1.1	AVE	144.37	324	iPKPd	15	43.00	-1.7
RSSD	106.51	46	Pdiff	10	22.70	-0.4		0.9s		13.10nm							i	16	05.00	
	1.2s	12.76nm				5.9mb	BNI	128.42	326	PKP	15	16.50	1.3	TIO	145.92	321	iPKP	15	47.60	0.0
KAF	109.47	335	ePKP	14	36.60	-1.5	LOR	128.49	330	ePKP	15	13.90	-1.2				i	16	30.00	
	0.8s	8.00nm						1.3s		43.30nm				NEV	147.66	67	ePKP	15	53.58	3.0X
NUR	110.92	334	iPKP	14	38.90	-2.0		Z 20s		0.20um			4.8Msz	VAO	147.90	153	ePKP	15	51.30	0.4
	0.8s	14.70nm					PGF	128.53	322	ePKP	15	14.30	-1.1				i	15	54.30	
FRB	116.14	17	ePKPc	14	49.80	-1.0		1.2s		59.50nm							i	16	09.60	
NAO	116.34	338	PKP	14	50.10	-1.2	LBF	128.62	329	ePKP	15	14.40	-1.0				e	16	45.60	
	1.0s	12.20nm						1.1s		20.75nm				BPA	148.34	66	ePKP	15	53.86	2.2
KRA	118.18	325	ePKP	14	54.20	-0.9	SBF	128.71	324	ePKP	15	14.30	-1.4	SHGH	148.53	272	ePKP	15	55.50	3.4X
SPC	118.40	324	ePKP	14	55.00	-0.9		1.2s		59.50nm				LEGH	148.66	272	ePKP	15	55.00	2.7
			e	46	52.40		SSF	128.80	330	ePKP	15	14.70	-0.9	KOGH	148.74	273	ePKP	15	55.00	2.5
KSP	119.81	327	iPKPc	14	57.40	-0.8		1.3s		54.15nm				PAG	148.79	68	ePKP	15	54.40	1.9
			e	16	23.80		SMF	128.91	329	ePKP	15	14.80	-1.1	WEGH	148.81	272	ePKP	15	55.00	2.5
			e	17	00.50			1.0s		30.00nm				SEG	148.85	67	ePKP	15	53.22	0.8
VAY	120.11	315	ePKP	14	56.70	-2.4	AVF	129.07	329	ePKP	15	15.40	-0.7	BBL	149.12	69	ePKP	15	56.98	4.1X
SRO	120.18	323	e(PKP)	14	57.80	-1.2		1.0s		9.00nm				SFG	149.17	67	ePKP	15	55.60	2.7
			e	46	25.10		FRF	129.35	324	ePKP	15	15.60	-1.2	MDN	149.24	69	ePKP	15	57.58	4.5X
SKO	120.66	316	iPKP	14	58.70	-1.4		1.1s		36.65nm				DPMT	149.27	69	ePKP	15	57.64	4.5X
ZST	120.71	324	ePKP	14	57.70	-2.3	LDF	129.44	333	ePKP	15	15.80	-1.0	DEG	149.28	67	ePKP	15	55.21	2.0
			e	17	11.20			1.1s		34.20nm				FDF	149.62	70	ePKP	15	59.36	5.7X
			e	46	36.50		SSB	129.45	327	PKP	15	15.84	-1.1	BIM	149.75	71	ePKP	15	59.96	6.1X
PRU	121.22	327	PKP	15	00.00	-0.9	BGF	129.48	330	ePKP	15	15.00	-2.0	TCE	149.80	78	ePKP	15	57.44	3.5X
			e	16	49.00			0.9s		19.65nm				MVM	149.91	71	ePKP	15	59.92	5.8X

19d 23h

TPP	150.14	79	ePKP	16 00.53		6.1X
TRN	150.15	78	ePKP	15 59.37		4.9X
TBH	150.50	79	ePKP	16 00.98		6.0X
PIG	150.62	77	ePKP	16 02.22		7.0X
BOT	150.74	77	ePKP	16 01.08		5.7X
KIC	153.21	273	PKP	16 06.22		7.2X
BAO	153.44	143	ePKPd	15 59.00	-0.4	
TIC	153.48	274	PKP	16 07.00		7.6X
LIC	153.49	273	PKP	16 07.12		7.7X
PDCR	160.55	158	ePKP	16 08.10	0.2	
			e	16 50.00		
SOB1	162.67	148	ePKP	16 12.50	2.4	
			e	17 01.30		

S.D. = 1.0 on 271 of 316 obs.

JAN 19, 1991 23h 11m 49.53± 0.45s
7.434 S ± 4.0km 128.209 E ± 6.5km
DEPTH = 145.9 ± 4.3 km
5.3mb (17 obs.)
BANDA SEA (2B0)

AAI	3.72	360	ePd	12 49.50	2.8	
	0.6s	275.70nm				
			eS	16 11.00		
KUPT	5.29	239	eP	13 10.00	2.4	
			eS	14 07.00		
MTN	6.10	152	eP	13 18.00	-0.5	
KNA	8.28	176	iPd	13 46.80	-1.2	
			eS	15 13.00		
MBL	15.87	210	eP	15 25.00	-1.1	
	0.5s	71.00nm		5.2mb		
ASPA	17.04	162	eP	15 37.10	-3.5X	
	0.5s	181.80nm		5.7mb		
			iS	18 39.70		
MAP	18.13	347	eP	15 55.00	1.6	
WARB	18.71	184	iPd	16 00.10	0.6	
MEKA	21.18	205	eP	16 25.00	0.4	
FORR	23.30	180	eP	16 46.00	0.8	
	0.4s	65.00nm		5.4mb		
MRWA	24.53	206	eP	16 59.00	1.9	
			i	17 23.40	115kmX	
			i	21 37.60		
IPM	29.63	293	ePd	17 43.30	-0.2	
	0.9s	74.10nm		5.4mb		
BRS	30.60	133	iP	17 51.50	-0.4	
QZH	33.52	344	iPd	18 17.00	-0.2	
	0.7s	30.00nm		5.1mb		
SSE	38.90	350	P	19 03.00	0.6	
	1.0s	30.00nm		5.0mb		
CHG	38.90	312	iPc	19 03.90	1.3	
	0.9s	28.36nm		5.0mb		
DZM	39.59	116	iPc	19 10.10	1.6	
GYA	39.65	329	P	19 09.80	0.9	
			PcP	21 13.60		
WHN	40.03	341	Pc	19 14.00	2.3	
	1.0s	100.00nm		5.5mb		
NJ2	40.27	348	Pc	19 14.50	0.9	
	1.1s	100.00nm		5.4mb		
CHJJ	44.42	13	eP	19 45.90	-1.6	
MTMJ	44.70	11	eP	19 49.30	-0.5	
MAT	44.74	11	eP	19 48.00	-2.0	
CD2	44.75	330	iPc	19 50.10	0.0	
	0.8s	100.00nm		5.5mb		
XAN	45.12	337	iPc	19 52.50	-0.5	
NIIJ	45.57	12	eP	19 55.90	-0.6	
TIY	47.27	343	Pc	20 09.70	-0.3	
BJI	48.53	348	eP	20 19.50	0.0	
	1.0s	62.00nm		5.3mb		
LZH	48.98	334	iPc	20 24.20	0.9	
	4.0s	230.00nm		5.3mb	X	
Z	18s	0.49um		4.5Msz		
SNY	49.20	355	iPd	20 24.60	-0.1	
	1.2s	40.00nm		5.0mb		
HHC	50.43	344	P	20 34.40	0.2	
	1.0s	40.00nm		5.1mb		
CN2	51.05	357	Pd	20 38.00	-0.7	
LSA	51.30	318	eP	20 42.30	0.9	
MDJ	51.82	1	Pd	20 45.00	0.5	
WLZ	52.40	133	eP	20 49.20	0.2	
KHZ	52.94	139	P	20 53.20	0.4	
MNG	53.45	136	P	20 56.00	-0.6	
KOD	53.49	289	eP	20 57.50	-0.1	
GTA	53.52	333	iPc	20 57.50	0.2	
	1.0s	50.00nm		5.3mb		
GUN	53.92	312	P	21 00.60	-0.1	
PKI	54.07	312	P	21 01.36	-0.5	
KKN	54.29	312	P	21 03.06	-0.2	
DMN	54.32	312	P	21 03.40	-0.1	
GBA	54.57	292	P	21 04.20	-0.9	
GKN	54.88	312	P	21 06.90	-0.6	
HYB	54.92	297	iPd	21 06.50	-1.2	
	1.0s	45.00nm		5.3mb		
POO	59.49	296	eP	21 37.50	-2.4	
NDI	60.85	309	iPc	21 47.00	-1.9	
WMQ	62.80	328	iPd	22 02.40	0.7	
	1.0s	40.00nm		5.3mb		
QUE	69.60	306	eP	22 44.40	-0.8	
M8C	102.44	13	ePdiff	25 29.00	-0.5	
NUR	103.10	330	iPdiff	25 38.00	5.2X	
	0.6s	10.40nm		5.8mb		
APO	108.26	332	ePKP	30 00.50	-1.1	
	0.5s	2.10nm				
YKA	108.92	26	ePKP	30 01.70	-1.0	
	0.5s	2.10nm				
SES	115.04	37	ePKP	30 14.00	-0.9	
BSF	116.31	320	ePKP	30 16.60	-0.9	
	0.6s	7.20nm				
HAU	116.54	320	ePKP	30 17.10	-0.7	
	1.1s	9.75nm				
LPG	117.09	318	ePKP	30 18.80	-0.5	
LPL	117.10	318	ePKP	30 18.80	-0.4	
LOR	118.37	320	ePKP	30 20.80	-0.5	
	0.5s	2.55nm				
LBF	118.40	320	ePKP	30 20.90	-0.5	
	0.5s	3.65nm				
SMF	118.61	320	ePKP	30 21.10	-0.7	
SSF	118.67	320	ePKP	30 21.60	-0.2	
	0.8s	9.40nm				
AVF	118.87	320	ePKP	30 21.60	-0.6	
	0.5s	3.65nm				
BGF	119.28	320	ePKP	30 23.00	0.0	
	0.5s	12.05nm				
MAF	119.59	320	ePKP	30 23.30	-0.3	
TCF	119.79	320	ePKP	30 23.90	-0.1	
	0.7s	4.40nm				
LSF	120.24	320	ePKP	30 24.40	-0.5	
	0.6s	3.15nm				
CAF	120.40	318	ePKP	30 25.40	0.2	
	0.8s	6.05nm				
GRR	120.83	323	ePKP	30 25.70	-0.2	
LPO	121.07	318	ePKP	30 26.80	0.3	
	0.7s	5.50nm				
LPF	121.09	323	ePKP	30 26.20	-0.2	
MFF	121.16	321	ePKP	30 26.20	-0.4	
LFF	121.26	319	ePKP	30 27.00	0.2	
EPF	122.26	317	ePKP	30 29.30	0.4	
	0.5s	2.20nm				
GOL	122.41	47	ePKP	30 30.60	1.0	
	1.0s	16.00nm				
ANMO	122.99	53	ePKP	30 31.90	1.2	
	1.0s	6.50nm				
TUL	130.86	48	ePKP	30 45.90	0.4	
	0.8s	110.00nm				
KIC	133.29	272	PKP	30 38.20	-12.6X	
ITB7	147.56	176	ePKP	31 19.50	3.6X	
ITB	147.88	176	e(PKP)	31 20.50	4.1X	
ITB1	148.01	176	e(PKP)	31 20.90	4.3X	
ARE	149.28	141	ePKP	31 25.00	5.8X	
VAO	149.39	189	ePKP	31 24.70	5.8X	
CNCB	151.08	146	PKP	31 24.60	2.4	
			i	31 30.00		
LPB	151.24	146	PKP	31 26.00	3.7X	
			i	31 31.30		
ZOBO	151.43	146	PKP	31 24.00	1.3	
			i	31 30.20		
CCH	151.55	150	PKP	31 31.10	8.5X	

S.D. = 1.0 on 78 of 88 obs.

JAN 19, 1991 23h 43m 19.30± 0.69s
34.607 N ± 5.1km 22.519 E ± 3.0km
DEPTH = 36.2 ± 6.4 km
4.2mb (30 obs.)
MEDITERRANEAN SEA (400)
MD 4.4 (THE), 4.4 (HLW), 4.3 (ATH).

VAM	1.59	59	ePn	43 48.10	2.5	
VLI	2.13	9	ePn	43 56.20	3.0	
ITM	2.61	350	ePn	44 01.80	1.7	
NPS	2.62	75	ePn	44 03.00	2.7	
APE	3.47	44	ePn	44 12.50	0.3	
ATH	3.50	16	ePn	44 14 00	1.5	
VLS	3.89	337	ePn	44 18.20	0.0	
KAP	3.93	75	ePn	44 21.00	2.2	
EVR	4.34	353	ePn	44 26.40	1.7	
AGG	4.41	358	iPc	44 25.96	0.4	
			eS	45 16.80		
SMG	4.67	47	ePn	44 30.90	1.7	
NEO	4.72	7	ePn	44 30.00	-0.1	
ARG	4.85	69	ePn	44 32.10	0.2	
IGT	5.22	341	iPd	44 36.21	-0.8	
IZM	5.38	44	ePn	44 39.40	0.2	
PAIG	5.39	10	ePd	44 39.14	-0.2	
LIT	5.48	360	ePc	44 40.96	0.2	
PRK	5.52	32	ePn	44 41.10	-0.1	
KEK	5.54	338	ePn	44 41.50	0.0	
KZN	5.72	354	ePn	44 43.70	-0.4	
PLG	5.80	7	ePn	44 45.00	-0.3	
OUR	5.83	11	ePd	44 45.20	-0.5	
KSL	5.97	73	ePn	44 47.50	-0.1	
THE	6.03	3	ePd	44 47.16	-1.2	
FNA	6.23	352	iPc	44 50.17	-1.2	
SOH	6.24	6	ePd	44 51.65	0.2	
GRG	6.34	359	ePd	44 51.28	-1.5	
ELL	6.38	68	iPn	44 53.00	-0.5	
KNT	6.55	3	ePd	44 55.04	-0.7	
SRS	6.55	7	ePc	44 54.97	-0.8	
OHR	6.63	349	iPn	44 55.80	-1.2	
	1.1s	247.00nm			5.9mb	X
			iSg	46 04.50		
			Lg	46 24.20		
MEU	6.65	294	P	44 56.50	-0.7	
			eSn	46 06.00		
VAY	6.70	0	iPn	44 56.30	-1.6	
KHL	6.75	55	iPn	44 59.10	0.4	
LCI	6.77	329	P	44 58.00	-0.8	
			eSn	46 10.00		
RDO	6.95	19	ePn	45 00.40	-0.9	
MMB	7.04	7	iPd	45 06.00	3.4X	
TDS	7.06	317	P	45 03.00	0.2	
			eSn	46 17.00		
BCK	7.13	64	iPn	45 02.50	-1.5	
MNO	7.14	300	P	45 04.50	0.3	
			eSn	46 19.00		
KKB	7.26	3	iPc	45 06.00	0.3	
RZN	7.28	13	iPd	45 06.00	-0.1	
			i	45 09.00		
KDZ	7.39	17	iPd	45 06.00	-1.5	
SKO	7.40	354	iPn	45 05.50	-2.2	
	0.9s	89.00nm			5.7mb	X
Z	12s	2.11um			5.1Msz	
N	11s	2.40um				
			iPb	45 13.60		
			iSg	46 24.50		
			Lg	46 54.00		
			LR	48 30.00		
ALT	7.53	52	eP	45 10.20	0.6	
BRT	7.54	328	P	45 09.00	-0.6	
			eSn	46 28.50		
GIB	7.64	299	P	45 12.50	1.4	
PLD	7.68	12	eP	45 13.00	1.5	
ULC	7.78	342	ePn	45 09.50	-3.5X	
			eSn	46 29.00		
MCT	7.80	295	P	45 15.00	1.6	
DIM	7.80	17	eP	45 13.00	-0.2	
BAI	7.89	327	P	45 11.00	-3.4X	
VTS	7.99	4	eP	45 17.00	0.9	
BDV	8.19	340	ePn	45 15.60	-3.1X	
			eSn	46 34.50		
TTG	8.22	343	ePn	45 16.30	-2.7	
			eSn	46 41.00		
PVY	8.22	347	ePn	45 17.20	-2.0	
			eSn	46 42.00		
SGO	8.25	318	P	45 20.80	1.4	
			eSn	46 45.50		
HCY	8.44	339	ePn	45 17.60	-4.5X	
			eSn	46 42.00		
IVA	8.50	347	ePn	45 20.40	-2.6	
			eSn	46 50.00		
NKY	8.64	342	ePn	45 22.20	-2.8X	
			eSn	46 52.50		
BRY	8.84	341	ePn	45 24.00	-3.8X	
			eSn	46 53.00		
HLW	8.84	120	eP	45 25.25	-2.4	
			eS	46 59.25		
PVL	8.87	13	iP	45 26.00	-2.0	
PLE	9.04	345	ePn	45 27.60	-2.9X	
			eSn	47 01.00		
BBTK	9.69	54	eP	45 40.00	0.5	
ADI	10.68	95	eP	45 49.00	-3.9X	
ZNT	10.72	99	eP	45 49.00	-4.5X	

		e	47 39.00			
CMP	10.82	10 ePc	46 04.00	9.1X		
JVI	11.07	100 iPd	45 53.60	-4.7X		
		eS	47 48.00			
KFNJ	11.35	100 P	46 00.00	-2.1		
PRNI	11.36	109 eP	46 00.00	-2.2		
VRI	11.70	15 eP	46 15.00	8.3X		
PTJ	12.34	338 eP	46 11.20	-4.1X		
CSTJ	12.40	102 P	46 13.00	-3.2X		
FVI	14.06	331 P	46 41.00	3.1X		
CTI	14.10	327 P	46 39.00	0.4		
SBF	14.88	313 eP	46 54.40	5.6X		
	0.5s	7.30nm		4.3mb		
LMR	15.18	310 eP	46 57.30	4.7X		
	0.6s	3.60nm		3.8mb		
SOTA	15.21	329 e(P)	46 56.50	3.4X		
		i	47 00.40			
FRF	15.21	311 eP	46 58.10	5.1X		
	0.5s	4.35nm		4.0mb		
KRA	15.55	354 eP	46 59.00	1.6		
KHC	15.95	338 eP	47 02.30	-0.3		
		e	47 07.80			
WET	16.18	337 iPc	47 09.10	3.6X		
LPG	16.22	317 eP	47 11.20	4.9X		
PRU	16.45	342 eP	47 10.00	1.2		
		e	47 26.50			
		e	50 40.50			
KSP	16.85	346 eP	47 13.30	-0.6		
		i	47 23.70			
GRF	17.21	335 eP	47 20.50	2.0		
BSF	17.69	323 eP	47 25.90	1.4		
	1.0s	8.00nm		3.8mb		
CDF	17.86	325 eP	47 26.90	0.4		
MOX	17.89	337 e(P)	47 30.00	3.1X		
HAU	18.03	323 eP	47 27.80	-0.8		
CLL	18.06	340 e(P)	47 30.00	1.1		
SMF	18.54	316 eP	47 37.00	2.2		
LBF	18.65	317 eP	47 35.80	-0.5		
	1.0s	10.00nm		4.0mb		
CAF	18.75	309 eP	47 37.50	0.0		
	1.0s	8.00nm		3.9mb		
LOR	18.88	318 eP	47 39.20	0.1		
	1.1s	9.75nm		3.9mb		
AVF	18.90	316 eP	47 38.10	-1.1		
	0.9s	4.90nm		3.7mb		
SSF	18.96	317 eP	47 38.90	-1.1		
BGF	19.07	315 eP	47 40.00	-1.2		
	0.8s	6.70nm		3.9mb		
EPF	19.18	303 eP	47 42.80	0.1		
	1.0s	6.00nm		3.8mb		
LPO	19.21	308 eP	47 43.40	0.4		
	0.5s	14.60nm		4.5mb		
RJF	19.27	310 eP	47 43.30	-0.3		
	1.0s	16.00nm		4.2mb		
TCF	19.30	313 eP	47 43.90	-0.2		
	1.0s	4.00nm		3.6mb		
LFF	19.61	308 eP	47 47.50	0.1		
	0.6s	17.15nm		4.5mb		
ENN	20.16	328 eP	47 55.00	1.9		
	0.8s	11.00nm		4.2mb		
WTS	20.73	332 eP	48 00.00	1.1		
	0.7s	5.00nm		4.0mb		
MFF	20.89	312 eP	48 00.30	-0.4		
	0.5s	5.85nm		4.2mb		
BSD	21.17	348 iPd	48 03.30	-0.2		
	0.7s	19.00nm		4.6mb		
AFC	21.25	285 eP	48 06.70	2.1		
ECOG	21.27	285 eP	48 06.50	1.7		
EBAN	21.45	287 eP	48 11.80	5.3X		
TOL	21.76	292 eP	48 10.00	0.4		
LDF	21.84	317 eP	48 09.70	-0.6		
	0.5s	4.35nm		4.1mb		
GUD	21.92	294 eP	48 10.80	-0.6		
LPF	22.09	314 eP	48 12.10	-0.7		
	0.5s	5.85nm		4.3mb		
FLN	22.14	317 eP	48 12.90	-0.3		
	1.0s	16.00nm		4.4mb		
GRR	22.16	315 eP	48 13.10	-0.4		
	0.5s	4.35nm		4.1mb		
IFR	22.91	275 iP	48 19.00	-2.2		
UPP	25.47	354 iP	48 47.00	1.7		
NUR	25.95	2 iP	48 48.90	-0.9		
		e	48 54.00			
HFS	26.18	350 eP	48 50.70	-1.3		
	0.4s	5.80nm		4.5mb		
Z	15s	0.34um		4.0MszX		
		LR	59 23.00			

NAO	27.30	348 P	49 01.30	-0.9		
	0.5s	1.80nm		4.0mb		
KAF	27.63	4 eP	49 04.70	-0.5		
BCAO	30.25	188 iPc	49 30.10	1.0		
	0.5s	5.00nm		4.6mb		
		id	49 34.60			
TIC	37.67	229 P	50 32.40	-0.6		
KIC	37.72	228 Pc	50 33.00	-0.4		
	0.6s	4.00nm		4.5mb		
LIC	38.00	228 Pc	50 35.50	-0.3		
WMO	50.15	59 P	52 13.80	0.6		
HYB	52.54	94 eP	52 31.40	-0.2		
GKN	52.76	79 P	52 32.76	-0.5		
	0.5s	25.00nm		5.4mb X		
DMN	53.30	79 P	52 37.18	-0.2		
KKN	53.37	79 P	52 37.34	-0.4		
	0.8s	26.00nm		5.3mb X		
PKI	53.56	79 P	52 39.26	-0.1		
	0.7s	21.00nm		5.2mb		
GBA	53.62	99 P	52 39.50	0.0		
GUN	53.80	79 P	52 40.68	-0.5		
	0.9s	29.00nm		5.3mb X		
KOD	55.52	102 eP	52 54.00	0.2		
FRB	60.03	329 eP	53 24.00	-0.4		
GTA	60.13	61 eP	53 25.40	-0.2		
	0.8s	10.00nm		5.0mb		
LZH	64.39	63 eP	53 54.00	-0.1		
		sP	54 02.00			
CD2	66.61	68 eP	54 09.70	1.3		
MBC	66.82	351 eP	54 09.50	0.5		
HHC	67.74	55 eP	54 16.00	0.5		
CHTO	68.62	81 P	54 21.50	0.4		
TIY	69.80	58 eP	54 32.40	4.2X		
SNY	75.09	49 eP	55 02.00	2.8		
CN2	75.15	47 eP	54 57.40	-2.2		
YKA	77.29	341 eP	55 11.30	0.1		
	0.7s	0.80nm		3.9mb		
FFC	79.08	331 eP	55 22.50	1.3		
	0.5s	4.00nm		4.7mb		

S.D. = 1.2 on 123 of 148 obs.

% JAN 20, 1991 00h 01m 37.68± 0.88s
39.433 N ± 6.8km 27.977 E ± 9.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

DST	0.53	71 iPg	01 47.30	-1.2		
		eSg	01 54.30			
EDC	0.92	355 iPg	01 55.50	0.3		
BNT	0.92	357 iPg	01 55.40	0.1		
		eSg	02 08.40			
IZM	1.17	209 iPn	01 58.90	-0.7		
YLV	1.56	43 ePn	02 05.80	0.2		
KHL	1.64	132 ePn	02 08.00	1.3		

S.D. = 1.1 on 6 of 6 obs.

JAN 20, 1991 00h 09m 54.17± 0.34s
3.158 S ± 6.1km 12.278 W ± 6.6km
DEPTH = 10.0km (geophysicist)
5.3mb (35 obs.) 4.8Msz (7 obs.)
NORTH OF ASCENSION ISLAND (407)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 28C
Centroid Location:
Origin Time 00:10: 2.8 0.4
Lat 2.75S 0.06 Lon 12.44W 0.04
Dep 15.0 FIX Half-duration 2.0
Moment Tensor; Scale 10**17 Nm
Mrr=-1.24 0.05 Mtt=-0.10 0.06
Mff= 1.34 0.07 Mrt= 0.00 0.00
Mrf= 0.00 0.00 Mtf=-0.25 0.05
Principal Axes:

T	Val= 1.38	Plg= 0	Azm=261
N	-0.14	0	171
P	-1.24	90	180

Best Double Cauple:Mo=1.3*10**17
NP1:Strike=351 Dip=45 Slip= -90
NP2: 171 45 -90

LIC	11.80	38 Pd	12 45.92	0.3		
	0.9s	30.00nm		5.6mb		
KIC	12.08	39 P	12 49.12	-0.3		
	1.0s	52.50nm		5.8mb		
TIC	12.14	37 P	12 49.60	-0.6		
PDCR	28.15	249 eP	15 48.60	-0.2		

BCAO	31.70	76 iPc	16 20.20	-0.3		
	1.2s	119.00nm		5.7mb		
		id	16 26.50			
TIO	34.23	8 iP	16 44.50	2.0		
IFR	37.10	10 iP	17 09.50	2.7		
LWI	41.04	90 iP-	17 40.40	0.4		
PPD	42.26	240 eP	17 49.70	0.0		
KIM	43.46	130 iPc	17 59.00	-0.5		
	1.6s	300.00nm		5.8mb		
SLR	44.94	124 iPd	18 13.20	1.6		
	1.3s	155.77nm		5.8mb		
Z	18s	2.41um		5.2Msz		
EPF	47.37	13 eP	18 31.20	0.8		
NAI	49.08	89 iPd	18 52.00	7.7X		
LPO	49.13	13 eP	18 44.20	0.3		
LFF	49.28	12 eP	18 45.20	0.2		
LMR	49.28	18 eP	18 45.30	0.2		
LRG	49.34	18 eP	18 45.90	0.3		
	1.3s	46.95nm		5.3mb		
Z	19s	0.82um		4.7Msz		
PGF	49.41	21 eP	18 46.20	0.0		
	1.3s	36.10nm		5.2mb		
FRF	49.53	18 eP	18 47.30	0.3		
	1.5s	47.00nm		5.3mb		
CAF	49.55	13 eP	18 47.10	-0.2		
	1.6s	43.55nm		5.2mb		
RJF	49.79	13 eP	18 48.90	-0.1		
	1.6s	49.75nm		5.2mb		
Z	20s	0.93um		4.8Msz		
SBF	50.05	19 eP	18 51.00	-0.1		
	0.8s	18.80nm		5.1mb		
LSF	50.69	12 eP	18 55.80	-0.1		
MFF	50.69	11 eP	18 55.50	-0.4		
TCF	50.88	13 eP	18 57.60	0.3		
	1.5s	39.15nm		5.1mb		
MAF	50.89	13 eP	18 57.80	0.4		
	1.7s	55.15nm		5.2mb		
BGF	51.28	13 eP	19 00.20	-0.1		
	1.5s	28.75nm		5.0mb		
FIR	51.29	22 e(P)	19 04.00	3.6X		
LPG	51.32	17 eP	19 01.60	0.6		
	1.5s	60.05nm		5.3mb		
LPL	51.33	17 eP	19 01.50	0.5		
	1.4s	37.05nm		5.1mb		
SMF	51.59	14 eP	19 02.40	-0.4		
AVF	51.61	14 eP	19 02.50	-0.4		
SSF	51.90	14 eP	19 04.80	-0.3		
	1.5s	33.95nm		5.1mb		
LPF	51.92	10 eP	19 04.80	-0.3		
	1.3s	28.90nm		5.0mb		
LBF	51.94	14 eP	19 04.80	-0.7		
	1.5s	44.40nm		5.2mb		
LOR	52.18	14 eP	19 06.50	-0.7		
	1.5s	31.35nm		5.0mb		
Z	20s	1.13um		4.9Msz		
GRR	52.29	10 eP	19 07.50	-0.5		
	1.7s	102.95nm		5.5mb		
LDF	52.62	10 eP	19 09.90	-0.5		
FLN	52.72	10 eP	19 10.40	-0.8		
	1.3s	28.90nm		5.0mb		
Z	21s	1.10um		4.9Msz		
BSF	53.46	16 eP	19 15.70	-1.1		
	1.8s	69.05nm		5.3mb		
HAU	53.50	15 eP	19 16.10	-0.9		
	1.6s	55.95nm		5.3mb		
FEL	53.84	17 eP	19 19.13	-0.5		
OGA	53.88	20 eP	19 20.20	0.2		
CDF	54.12	16 eP	19 20.40	-1.2		
SOTA	54.25	20 eP	19 21.00	-1.6		
	1.5s	87.50nm		5.6mb		
		ic	19 22.00			
		i	19 28.60			
		i	19 55.00			
		e	21 21.00			
SKO	54.35	31 iP	19 24.20	1.0		
	1.5s	132.00nm		5.7mb		
Z	18s	0.84um		4.8Msz		
N	20s	0.86um				
		i	19 30.00			
		LR	43 08.00			
PTJ	54.89	24 eP	19 24.90	-2.4		
FUR	55.10	19 eP	19 28.70	-0.1		
MBH	55.72	50 eP	19 33.00	-0.6		
ENN	55.94	14 eP	19 35.50	0.8		
	1.0s	20.00nm		5.1mb		
BEO	55.99	28 eP	19 36.00	0.9		
		i	19 42.70			

20d 00h

GRF	56.42	18	eP	19	37.60	-0.6
			e	19	44.30	
WET	56.48	20	iPc	19	38.50	-0.2
KHC	56.70	20	eP	19	40.30	0.0
			e	19	46.50	
DSI	56.94	49	eP	19	41.00	-1.2
VKA	56.97	22	e(P)	19	43.00	0.8
			i	19	48.60	
ZST	57.22	23	e(P)	19	43.80	-0.1
WTS	57.29	14	eP	19	47.00	2.7
SRO	57.39	24	iP	19	44.70	-0.4
BUD	57.42	25	e(P)	19	45.00	-0.3
PRU	57.76	20	eP	19	47.50	-0.2
	2.5s	98.00nm			5.4mb	
			e	19	53.50	
			e	20	06.50	
HRI	58.02	47	eP	19	49.00	-0.9
CLL	58.39	18	e(P)	19	52.00	-0.1
	2.0s	50.00nm			5.2mb	
			e	22	00.00	
EKA	58.77	6	P	19	58.00	3.4X
	1.9s	72.20nm			5.5mb	
KSP	59.09	21	ePc	19	56.70	-0.3
MLR	59.14	30	eP	20	00.00	2.4
SPC	59.26	24	eP	19	58.10	-0.3
BMR	59.52	27	ePd	20	01.00	1.0
ARE	59.62	253	eP	20	02.00	0.5
KRA	59.82	23	ePd	20	08.10	6.1X
	1.5s	91.00nm			5.7mb	
MDZ	60.50	234	e(P)	20	06.20	-0.9
NAO	66.28	12	P	20	44.40	-0.2
	0.8s	2.90nm			4.5mb	
HFS	66.30	14	eP	20	43.90	-0.8
	0.7s	5.50nm			4.9mb	
FRB	78.60	338	eP	22	03.00	5.6X
QUE	82.29	59	eP	22	18.90	0.9
TUL	86.58	306	e(P)	22	39.00	-0.3
Z	21s	0.30um			4.7Msz	
		LR		51	29.40	
MEO	88.75	305	iPc	22	50.50	0.8
FFC	92.38	325	eP	23	06.00	-0.1
	1.4s	48.00nm			5.7mb	
YKA	98.48	333	eP	23	33.90	0.1
	1.1s	1.30nm			4.5mb	
RMQ	145.29	149	iPKPc	29	34.00	-0.6
S.D. = 0.9		on	75 of	80	obs.	

? JAN 20, 1991 00h 25m 41.77± 3.12s
10.919 N ±19.4km 61.811 W ±24.3km
DEPTH = 33.0km (normol)
TRINIDAD (98)
MD 3.0 (TRN).

TCE	0.23	166	eP	25	48.61	-0.1
			eS	25	56.87	
TRN	0.48	124	eP	25	52.32	0.2
			eS	26	04.13	
TPP	0.70	149	eP	25	55.19	0.1
			eS	26	10.09	
TBH	0.85	121	eP	25	56.99	-0.3
			eS	26	22.13	
BOT	1.10	77	eP	26	00.97	0.1
			eS	26	22.13	
S.D. = 0.3		on	5 of	5	obs.	

? JAN 20, 1991 01h 32m 34.17± 5.06s
48.644 N ±19.5km 1.361 W ±33.0km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 1.9 (LDG).

GRR	0.42	127	Pg	32	42.70	-0.1
			Sg	32	48.20	
FLN	0.59	78	Pg	32	46.00	-0.2
			Sg	32	53.90	
LPF	0.65	161	Pg	32	47.10	0.0
			Sg	32	55.40	
LDF	0.82	93	Pg	32	50.20	0.1
			Sg	33	00.70	
			Sn	33	03.40	
S.D. = 0.2		on	4 of	4	obs.	

? JAN 20, 1991 01h 43m 52.41± 5.41s
48.652 N ±20.1km 1.435 W ±34.8km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.5 (LDG).

GRR	0.47	124	Pg	44	01.80	-0.1
			Sg	44	06.60	
FLN	0.64	80	Pg	44	05.10	-0.1
			Sg	44	12.90	
LPF	0.67	157	Pg	44	05.80	0.0
			Sg	44	14.20	
LDF	0.87	93	Pg	44	09.40	0.2
			Sg	44	20.00	
			Sn	44	21.70	
MFF	2.23	157	Pg	44	35.60	5.7X
			Sg	45	02.30	
S.D. = 0.3		on	4 of	5	obs.	

? JAN 20, 1991 01h 45m 14.76± 6.22s
48.695 N ±22.4km 1.538 W ±39.0km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.1 (LDG).

GRR	0.55	124	Pg	45	25.80	0.0
			Sg	45	31.00	
FLN	0.70	84	Pg	45	28.60	0.0
			Sg	45	36.20	
LPF	0.74	153	Pg	45	29.30	0.0
			Sg	45	37.80	
LDF	0.94	96	Pg	45	32.80	0.0
			Sg	45	43.70	
			Sn	45	45.80	
S.D. = 0.0		on	4 of	4	obs.	

? JAN 20, 1991 01h 45m 54.87± 5.41s
48.647 N ±19.9km 1.443 W ±34.9km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.3 (LDG).

GRR	0.47	123	Pg	46	04.30	-0.1
			Sg	46	09.10	
FLN	0.65	79	Pg	46	07.70	-0.1
			Sg	46	15.40	
LPF	0.67	156	Pg	46	08.20	0.0
			Sg	46	16.60	
LDF	0.88	93	Pg	46	11.90	0.2
			Sg	46	22.40	
			Sn	46	24.90	
S.D. = 0.2		on	4 of	4	obs.	

? JAN 20, 1991 02h 36m 42.57±12.20s
33.439 S ±22.8km 72.294 W ±98.7km
DEPTH = 33.0km (normol)
OFF COAST OF CENTRAL CHILE (134)

LCCH	0.61	94	iPd	36	53.10	-1.6
			iS	37	03.00	
LNV	0.90	125	iPd	36	58.70	-0.1
			iS	37	11.00	
TACH	1.15	101	iPd	37	03.00	0.5
			iS	37	20.00	
ROCH	1.17	67	iPc	37	03.00	0.1
			iS	37	20.00	
SAN	1.36	91	iPd	37	06.00	0.5
			iS	37	24.50	
PCH	1.50	97	iPc	37	08.10	0.6
			iS	37	29.00	
MDZ	2.94	80	e(P)	37	35.30	7.2X
S.D. = 1.1		on	6 of	7	obs.	

* JAN 20, 1991 04h 19m 38.62± 0.94s
4.303 S ±10.0km 144.363 E ±12.2km
DEPTH = 157.5 ± 9.0 km
4.6mb (3 obs.)
NEAR N COAST OF PAPUA NEW GUINEA(200)

MNDI	1.97	201	eP	20	15.70	1.2
YYYY	2.50	140	eP	20	20.00	-0.7
JAY	4.06	296	ePc	20	40.00	-0.6
QIS	16.81	196	eP	23	26.00	-0.2
ASPA	21.74	207	iPc	24	18.50	0.2
	0.6s	50.90nm			5.1mb	
			iS	28	07.40	
WARB	27.59	216	eP	25	13.60	0.5
	0.3s	6.00nm			4.8mb	
FORR	30.53	208	eP	25	38.00	-1.1
	0.4s	28.00nm			5.3mb	X
FBA	84.66	23	(P)	31	56.00	0.6
YKA	98.89	27	eP	33	01.90	0.2
	0.4s	0.10nm			3.7mb	
S.D. = 0.9		on	9 of	9	obs.	

% JAN 20, 1991 04h 40m 38.76± 1.16s
40.242 N ± 8.7km 29.269 E ±10.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.5 (ISK).

YLV	0.33	14	iPg	40	45.80	0.1
			eSg	40	50.00	
HRT	0.65	28	iPg	40	51.80	0.0
DST	0.80	218	iPg	40	54.40	0.0
			eSg	41	07.40	
ISK	0.84	349	iPg	40	54.80	-0.1
BNT	1.04	277	iPg	40	58.30	-0.1
EDC	1.08	276	iPg	40	59.20	0.1
S.D. = 0.1		on	6 of	6	obs.	

? JAN 20, 1991 04h 42m 58.06± 1.66s
41.202 N ±14.7km 23.160 E ± 7.2km
DEPTH = 10.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)
MD 1.6 (THE).

KNT	0.20	259	ePd	43	02.46	0.0
			eS	43	05.46	
SRS	0.34	104	ePd	43	05.06	0.0
			eS	43	09.50	
SOH	0.41	159	ePc	43	06.34	-0.1
			eS	43	11.98	
THE	0.59	195	iPd	43	10.02	0.1
			eS	43	17.70	
S.D. = 0.1		on	4 of	4	obs.	

? JAN 20, 1991 06h 22m 26.75± 1.85s
41.219 N ±16.0km 23.172 E ± 7.4km
DEPTH = 10.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)
MD 1.4 (THE).

KNT	0.21	255	iPd	22	31.32	-0.1
			eS	22	34.28	
SRS	0.33	108	ePc	22	33.72	0.1
			eS	22	38.48	
SOH	0.42	161	ePc	22	35.12	-0.2
			eS	22	41.04	
THE	0.61	195	ePc	22	39.24	0.3
			iS	22	46.68	
S.D. = 0.4		on	4 of	4	obs.	

JAN 20, 1991 06h 41m 10.32± 0.36s
53.058 N ± 9.0km 173.006 E ± 5.3km
DEPTH = 33.0km (normol)
4.4mb (7 obs.)
NEAR ISLANDS, ALEUTIAN ISLANDS (5)

SMY	0.74	116	eP	41	23.40	-0.9
IMA	20.98	39	eP	45	53.20	0.4
	0.8s	9.40nm			4.2mb	
FBA	22.98	44	eP	46	13.80	1.3
INK	29.11	38	eP	47	10.00	0.4
MBC	33.99	23	eP	47	53.00	0.6
YKA	37.73	46	eP	48	24.30	0.2
	0.8s	4.20nm			4.4mb	
PNT	40.99	67	eP	48	52.00	0.6
NEW	42.95	67	eP	49	07.50	0.0
GTA	50.26	285	eP	50	11.00	5.7X
	1.0s	10.00nm			4.8mb	
BW06	50.49	69	eP	50	06.90	-0.3
MSU	51.80	74	eP	50	17.50	0.4
FRB	54.11	29	eP	50	32.00	-1.5
WMQ	54.14	297	P	50	34.00	-0.2
GOL	54.89	69	eP	50	40.70	0.6
ANMO	57.58	74	eP	50	59.50	0.3
ALQ	57.58	74	eP	50	59.00	-0.3
	1.0s	5.00nm			4.5mb	
SCH	61.68	35	eP	51	26.00	-1.0
GAC	65.57	46	eP	51	51.00	-1.5
GUN	66.55	286	P	51	59.40	-0.1
KKN	66.98	286	P	52	01.58	-0.5
PKI	67.07	286	P	52	02.58	-0.2
GKN	67.20	287	P	52	03.52	0.2
DMN	67.22	286	P	52	03.72	0.1
HYB	78.90	284	eP	53	18.50	6.6X
WRA	80.04	217	P	53	18.00	0.2
	1.0s	4.10nm			4.4mb	
WRA	80.04	217	P	53	25.00	7.2X

0.9s 2.10nm 4.1mb
GBA 82.57 283 P 53 31.00 -0.2
ASPA 83.61 216 eP 53 37.80 1.4
1.1s 3.90nm 4.5mb
S.D. = 0.7 on 25 of 28 obs.

? JAN 20, 1991 07h 31m 08.97±18.44s
15.963 N ±15.9km 60.399 W ±128.km
DEPTH = 10.0km (geophysicist)
LEEWARD ISLANDS (92)
ML 2.5 (FDF).

DEG 0.72 299 eP 31 23.31 0.1
S 31 29.80
SFG 0.82 291 eP 31 24.80 0.0
BBL 1.13 247 eP 31 30.10 0.0
S 31 39.90
SEG 1.15 293 eP 31 30.39 -0.1
S 31 41.00
PAG 1.23 273 eP 31 32.00 0.0
S 31 43.20
S.D. = 0.1 on 5 of 5 obs.

JAN 20, 1991 08h 00m 15.09± 0.17s
61.290 N ± 2.3km 150.751 W ± 2.2km
DEPTH = 67.2 ± 2.5 km
4.5mb (12 obs.)
SOUTHERN ALASKA (2)
Felt (IV) at Anchorage,
Koshwitno, Palmer and Wasilla.
Felt (III) at Eagle River.

SUA 0.17 1 iP 00 25.11 -0.4
eS 00 32.73
PWA 0.55 49 iP 00 28.30 -0.1
PMS 0.58 94 iP 00 28.44 -0.2
NKA 0.60 204 iP 00 30.00 1.2
CGLM 0.61 272 iP 00 28.83 -0.2
eS 00 38.83
SPU 0.64 261 iP 00 29.09 -0.3
eS 00 39.45
CRP 0.68 269 iP 00 29.83 -0.1
NCG 0.69 280 iP 00 29.85 -0.1
eS 00 40.50
CKL 0.77 264 iP 00 30.73 -0.3
SKT 0.79 332 iP 00 31.27 0.2
eS 00 43.33
BGL 0.79 269 eP 00 31.11 -0.1
SLKM 0.83 161 iP 00 30.87 -0.7
eS 00 42.86
PLRM 0.84 68 iP 00 31.41 -0.2
eS 00 43.69
PMR 0.84 68 iPc 00 31.50 -0.1
GHO 1.00 60 eP 00 33.95 0.2
RDT 1.08 229 iP 00 34.55 -0.3
KNK 1.11 83 eP 00 35.38 0.2
eS 00 49.98
CUT 1.14 11 iP 00 36.12 0.6
REF 1.25 231 iP 00 37.15 0.0
RDN 1.25 233 eP 00 36.97 -0.2
NNL 1.28 192 iP 00 38.29 0.9
RSO 1.28 231 iP 00 37.68 0.0
RS2 1.29 231 iP 00 37.72 0.0
NCT 1.29 236 eP 00 37.83 0.2
eS 00 54.49
RED 1.32 229 eP 00 37.93 -0.1
SEW 1.35 151 iP 00 37.47 -0.8
eS 00 54.26
BRLK 1.53 183 eP 00 40.59 -0.3
eS 00 59.66
HOM 1.70 195 iP 00 43.70 0.7
KNIM 1.75 121 iP 00 41.81 -2.0
HUR 1.77 17 eP 00 44.98 0.8
CNPM 1.79 188 iP 00 44.11 -0.2
eS 01 05.84
GLI 1.82 101 iP 00 43.55 -1.3
LTI 1.90 130 eP 00 47.71 1.9
XLV 1.90 195 eP 00 45.48 -0.4
VZW 2.05 95 iP 00 47.10 -0.9
OPT 2.05 218 eP 00 47.93 -0.1
eS 01 11.82
VLZ 2.14 92 iP 00 48.45 -0.8
PDB 2.27 230 iP 00 51.15 0.1
iS 01 17.66
RND 2.30 22 eP 00 51.87 0.3
TOA 2.33 67 iPd 00 52.70 0.8
KLU 2.33 83 iP 00 51.14 -0.8
AUE 2.34 215 eP 00 52.79 0.9
AUH 2.35 216 eP 00 53.45 1.2
AUI 2.37 215 eP 00 53.44 1.0
eS 01 21.97
MCK 2.59 18 eP 00 56.76 1.2
TZL 2.65 71 iP 00 56.46 0.1
SDG 2.76 61 iP 00 58.14 0.3
MCNL 2.77 222 eP 00 58.02 0.0
CDD 2.78 213 eP 00 58.41 0.3
SYI 2.81 198 eP 00 58.20 -0.4
MID 2.88 128 e(P) 00 57.60 -1.9
8WN 2.95 11 eP 01 01.89 1.3
TTA 2.97 306 iPc 01 00.90 0.0
PAX 3.00 53 eP 01 01.57 0.2
THY 3.16 45 eP 01 05.32 1.8
GLB 3.35 84 iP 01 04.66 -1.5
DDM 3.38 40 eP 01 08.49 1.9
NEA 3.39 12 eP 01 07.67 1.0
HDA 3.58 27 eP 01 10.61 1.3
CCB 3.63 20 eP 01 10.72 0.7
MDM 3.86 16 eP 01 13.02 -0.2
FBA 3.87 19 eP 01 14.10 0.8
TGL 3.89 94 eP 01 11.54 -2.3
DOT 3.90 50 eP 01 13.66 -0.3
BALM 4.08 90 iP 01 14.56 -2.0
TMW 4.15 57 eP 01 17.03 -0.4
CTGM 4.58 90 eP 01 21.70 -1.8
IMA 4.97 346 ePd 01 28.80 -0.2
SDN 7.86 225 eP 02 09.90 0.9
SIT 8.98 111 eP 02 21.10 -3.2X
INK 10.14 39 P 02 38.00 -2.1
0.6s 4.30nm 4.7mb
BRW 10.33 349 e(P) 02 41.10 -1.7
YKA 16.94 70 eP 04 10.10 1.4
0.6s 10.80nm 4.2mb
MBC 18.40 23 eP 04 26.00 -0.5
0.5s 4.00nm 3.9mb
PNT 21.15 110 ePd 04 57.00 0.8
0.7s 30.00nm 4.7mb
EDM 21.51 95 iP 05 00.00 0.3
LON 22.12 118 eP 05 08.00 2.1
NEW 23.05 109 iPc 05 16.80 1.8
0.8s 10.42nm 4.3mb
pP 05 40.00 110kmX
VGB 23.54 118 eP 05 22.00 2.3
SES 24.41 98 eP 05 29.00 0.9
FFC 26.12 82 iPd 05 44.00 0.0
0.7s 10.00nm 4.5mb
LBFM 26.53 126 eP 05 49.40 1.3
BW06 30.67 108 eP 06 25.60 0.3
0.8s 2.38nm 4.0mb
TNP 31.19 123 eP 06 30.60 0.8
0.8s 4.41nm 4.3mb
RSSD 32.23 101 eP 06 39.20 0.3
MSU 32.95 116 eP 06 46.30 1.1
FRB 35.57 49 eP 07 07.00 -0.1
ANMO 38.44 113 eP 07 32.50 0.7
1.0s 7.50nm 4.6mb
ALO 38.44 113 eP 07 32.10 0.3
TUL 42.57 101 ePc 08 04.60 -0.9
0.8s 6.80nm 4.5mb
GAC 44.71 74 eP 08 22.50 -0.2
GBTN 48.33 90 eP 08 50.50 -0.8
NAV 48.66 86 eP 08 53.50 -0.4
MAT 49.80 274 eP 09 02.00 -0.6
CN2 50.08 290 eP 09 03.00 -1.6
JSC 50.88 89 eP 09 10.20 -0.6
SNY 52.48 290 Pc 09 21.00 -1.8
TIY 60.79 296 Pc 10 20.40 -1.6
NJ2 62.64 287 Pc 10 30.50 -3.8X
GTA 64.58 306 P 10 46.60 -0.6
0.9s 10.00nm 4.8mb
LZH 65.82 301 iPd 10 54.00 -1.2
1.0s 28.00nm 5.2mb
MOX 67.52 12 eP 11 26.00 20.4X
GYA 72.92 294 iPd 11 37.80 -1.0
GUN 80.06 311 P 12 19.00 0.0
KKN 80.38 312 P 12 20.56 0.0
GKN 80.42 312 P 12 20.54 -0.1
PKI 80.53 312 P 12 21.26 -0.2
DMN 80.61 312 P 12 21.82 0.0
S.D. = 1.0 on 105 of 108 obs.

JAN 20, 1991 09h 22m 24.90± 0.30s
36.268 N ± 7.3km 26.401 E ± 3.5km
DEPTH = 150.7 ± 5.6 km
4.1mb (4 obs.)

DODECANESE ISLANDS (369)
MD 3.5 (ATH).

NPS 1.19 213 ePn 22 52.00 0.3
ARG 1.40 92 ePb 22 53.50 -0.2
VAM 1.98 245 ePn 23 01.00 0.7
KSL 2.58 92 ePn 23 07.80 0.3
VLI 2.83 280 ePn 23 10.00 -0.6
ELL 2.87 79 iPn 23 12.50 1.3
KHL 3.23 50 iPn 23 15.40 -0.4
BCK 3.56 69 eP 23 20.30 0.1
ITM 3.71 286 ePn 23 22.40 0.4
VLS 5.01 294 ePn 23 38.00 -1.3
ADI 7.93 111 eP 24 18.00 -0.6
eS 25 42.00
DSI 8.81 120 eP 24 30.00 -0.2
eS 26 04.00
PRNI 9.30 127 eP 24 36.00 -0.8
LPG 17.45 308 eP 26 20.80 0.1
LPL 17.47 308 eP 26 20.90 0.0
BSF 18.53 315 eP 26 31.30 -1.1
HAU 18.88 315 eP 26 35.20 -0.8
SMF 19.77 309 eP 26 45.30 0.1
0.6s 4.50nm 4.1mb
LBF 19.82 310 eP 26 45.20 -0.5
LOR 20.02 310 eP 26 47.80 0.1
AVF 20.14 309 eP 26 49.40 0.6
0.3s 1.30nm 3.8mb
SSF 20.15 309 eP 26 48.90 -0.1
0.5s 5.10nm 4.2mb
MFF 22.32 306 eP 27 11.50 1.0
FLN 23.28 311 eP 27 20.10 0.3
LPF 23.37 309 eP 27 21.20 0.6
GRR 23.38 310 eP 27 21.20 0.5
0.5s 4.35nm 4.2mb
S.D. = 0.7 on 26 of 26 obs.

JAN 20, 1991 09h 26m 35.28± 0.50s
40.620 N ± 4.5km 23.331 E ± 4.5km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 2.7 (THE).

SOH 0.20 5 ePc 26 39.95 0.2
PLG 0.26 160 ePb 26 50.70 9.9X
THE 0.28 273 ePc 26 41.22 0.1
iS 26 45.18
SRS 0.53 22 ePd 26 44.22 -1.9
KNT 0.63 329 iPc 26 47.42 -0.6
PAIG 0.74 159 ePd 26 48.98 -0.8
eS 26 59.63
GRG 0.78 296 ePd 26 50.95 0.4
iS 27 00.95
LIT 0.83 231 ePc 26 51.42 0.1
eS 27 04.10
VAY 0.91 321 iPg 26 52.60 0.0
i 27 03.40
iSg 27 04.70
KZN 1.23 256 ePb 26 58.50 0.3
KKB 1.26 352 iPd 26 58.00 -0.7
S 27 25.00
RZN 1.49 44 P 27 02.00 -0.3
S 27 21.00
FNA 1.50 277 eP 27 02.50 0.3
RDO 1.75 72 ePn 27 08.00 2.1
AGG 1.77 206 eP 27 05.60 -0.6
KDZ 1.88 56 iPd 27 07.00 -0.8
iS 27 32.00
VTS 1.97 357 iP 27 10.00 0.8
iSg 27 38.00
DIM 2.19 49 iP 27 16.00 3.8X
S 27 46.00
PVL 2.99 29 eP 27 25.00 1.4
S.D. = 1.0 on 17 of 19 obs.

% JAN 20, 1991 10h 29m 09.12± 0.72s
43.795 N ± 7.0km 11.971 E ± 5.8km
DEPTH = 5.0km (geophysicist)
CENTRAL ITALY (381)
MD 2.6 (ROM).

SFI 0.15 326 Pc 29 12.10 -0.2
eSg 29 14.80
CRE 0.17 185 Pc 29 12.50 -0.1
eSg 29 15.60
FIR 0.52 268 ePg 29 19.00 -0.5
iSg 29 25.00

20d 10h

```
ARV      0.76 112 P      29 24.50    0.0
                 eSg    29 36.30
ASS      0.88 145 P      29 26.60    0.0
                 eSg    29 40.10
BDI      1.03 286 P      29 29.40    0.3
                 eSn    29 42.40
PII      1.05 266 Pc     29 29.80    0.4
                 eSg    29 43.70
      S.D. = 0.4   on   7 of   7 obs.
-----------------------------------------
% JAN 20, 1991  10h 42m 16.26± 2.87s
   44.385 N ±12.6km    6.839 E ±19.6km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                          (538)
      ML 1.8 (GEN).

PZZ      0.22  57 P      42 21.38    0.2
                 S      42 25.79
STV      0.38 112 P      42 23.84   -0.2
                 S      42 28.56
ENR      0.45 111 P      42 25.48    0.1
                 S      42 30.81
RRL      0.54 356 P      42 27.23    0.0
                 S      42 35.22
BHB      0.55  33 P      42 27.12   -0.2
                 S      42 34.71
      S.D. = 0.3   on   5 of   5 obs.
-----------------------------------------
   JAN 20, 1991  11h 07m 29.47± 0.26s
   43.453 N ± 6.4km  147.299 E ± 3.4km
   DEPTH =  58.5km  ( 14 depth phases)
   5.3mb ( 74 obs.)
 KURIL ISLANDS                   (221)
      Felt (III) ot Kurilsk.

KUSJ     1.92 260 P      07 59.60   -0.7
                 S      08 19.90
HOOJ     3.14 251 P      08 18.80    1.3
                 S      08 53.10
ASAJ     3.44 283 P      08 23.90    2.1
MAT      9.81 228 iPd    09 48.40   -2.0
        0.9s    12.60nm          5.0mb
                 (S)    11 44.00
MDJ     12.80 281 eP     10 29.50   -1.0
CN2     15.83 279 eP     11 08.00   -1.8
     Z  14s     0.70um
SNY     17.52 273 eP     11 30.40   -0.6
     Z  25s     0.50um
     E  20s     0.40um
BJI     23.40 272 eP     12 33.50   -0.1
        1.2s    38.00nm          4.7mb
                 pP     12 48.00   61km
SSE     24.06 248 eP     12 44.00    3.9X
     Z  20s     0.40um          3.9Msz
                 pP     12 54.80   41kmX
                 sP     13 02.00
NJ2     25.09 253 eP     12 53.00    3.1X
                 pP     13 03.50   39kmX
TIY     26.96 270 eP     13 07.80    0.5
BTO     27.69 277 P      13 14.00    0.0
XAN     31.14 266 P      13 44.30   -0.4
LZH     33.89 272 iPc    14 08.00   -0.8
        1.0s    45.00nm          5.3mb
                 pP     14 22.00   55km
                 sP     14 33.50
GTA     35.45 280 Pc     14 22.00    0.0
        1.0s    10.00nm          4.7mb
                 i      20 31.40
GYA     36.95 256 P      14 37.00    2.2
TTA     37.59  39 e(P)   14 39.90    0.2
IMA     38.87  34 iPc    14 51.00    0.6
        0.7s   125.90nm          5.9mb
FBA     41.27  36 eP     15 10.90    0.9
WMQ     42.31 292 iPc    15 19.40    0.5
        1.0s    60.00nm          5.3mb
LSA     46.31 272 P      15 52.90    1.2
INK     46.61  30 iPc    15 53.00    0.1
        0.5s    71.00nm          5.9mb
CHG     47.31 254 eP     16 14.20   15.1X
        1.0s    17.00nm
CHTO    47.31 254 P      16 00.00    0.9
                 pP     16 14.40   55km
MBC     49.06  18 eP     16 10.50   -1.5
        0.5s     5.00nm          4.8mb
GUN     51.14 274 P      16 28.40   -0.5
        0.6s   183.00nm          6.3mb
KKN     51.64 274 P      16 32.14   -0.4

        0.9s   103.00nm          5.8mb
PKI     51.68 274 P      16 32.30   -0.6
        1.0s    92.00nm          5.7mb
DMN     51.87 274 P      16 34.16   -0.2
        0.8s   122.00nm          6.0mb
GKN     51.99 275 P      16 34.60   -0.5
        0.8s    97.00nm          5.9mb
YKA     55.99  34 eP     17 02.50   -1.2
        0.8s    18.70nm          5.2mb
PGC     58.72  51 eP     17 23.00   -0.1
KEV     59.03 339 iP     17 23.70   -1.4
        0.6s    20.90nm          5.4mb
DAG     59.73 356 iPc    17 27.00   -2.8
        0.8s    24.63nm          5.4mb
PNT     60.49  49 ePc    17 35.00   -0.4
        0.7s    13.00nm          5.2mb
SOD     60.78 338 iP     17 32.80   -4.3X
NEW     62.45  49 eP     17 47.70   -0.9
        0.9s    10.75nm          5.0mb
                 pP     18 05.00   65km
HYB     62.88 269 ePc    17 50.50   -1.3
        1.0s    30.00nm          5.3mb
QUE     63.35 287 eP     17 54.50   -0.5
WDC     63.74  58 eP     17 57.50    0.4
WRA     64.20 194 P      17 59.00   -1.2
        0.6s    22.70nm          5.3mb
SES     64.38  44 ePc    18 00.50   -0.8
        0.7s    33.00nm          5.4mb
                 pP     18 17.00   61km
KAF     64.63 334 eP     18 00.60   -2.0
        0.8s    36.70nm          5.4mb
ORV     64.98  59 eP     18 05.20   -0.1
BRK     65.51  60 eP     18 09.00    0.4
POO     65.59 273 eP     18 23.00   13.6X
FFC     65.87  36 iPc    18 10.40   -0.3
        0.6s    28.00nm          5.4mb
GBA     66.18 266 Pc     18 11.50   -1.6
        0.8s     9.60nm          4.8mb
NUR     66.35 333 eP     18 12.00   -1.6
LRM     66.47  49 ePc    18 14.60   -0.4
                 epP    18 31.40   62km
CMB     66.59  59 eP     18 16.00    0.3
PRS     67.01  61 eP     18 18.50    0.2
LLA     67.11  61 eP     18 19.00    0.1
ASPA    67.91 193 iPd    18 23.90    0.0
        0.8s    12.90nm          5.0mb
TNP     68.53  58 iP     18 28.20    0.2
        0.7s    14.11nm          5.0mb
                 pP     18 45.10   62km
UPP     69.08 335 iPd    18 29.50   -1.2
                 i      18 51.80   86kmX
ISA     69.26  60 eP     18 32.00   -0.4
FRB     69.44  16 ePc    18 30.90   -1.9
        0.7s    43.00nm          5.5mb
CLC     69.72  60 eP     18 35.00   -0.1
                 e      18 52.00   62km
HFS     70.01 337 eP     18 34.80   -1.5
        0.6s   104.20nm          5.9mb
BW06    70.01  50 iP     18 36.30   -0.7
        1.0s    15.50nm          4.9mb
                 pP     18 53.20   62km
SBB     70.29  61 eP     18 39.00    0.4
MWC     70.44  61 eP     18 40.00    0.3
GSC     70.55  60 eP     18 40.00   -0.2
PLM     71.76  61 eP     18 48.00    0.3
TPC     71.79  60 eP     18 48.00    0.3
RSSD    72.09  46 eP     18 49.10   -0.4
        0.7s    13.84nm          5.0mb
                 pP     19 05.10   58km
GLA     73.25  60 eP     18 57.00    0.8
GOL     74.42  50 eP     19 00.70   -2.5
        0.9s     7.20nm          4.6mb
GLD     74.46  50 eP     19 04.10    0.7
        0.6s    19.67nm          5.2mb
KRA     76.17 328 iPc    19 12.30   -0.3
        0.7s    76.00nm          5.7mb
                 e      19 34.00   82kmX
VRI     76.62 322 eP     19 20.00    4.8X
BMR     76.63 325 ePd    19 17.00    1.8
SPC     76.75 327 eP     19 10.20   -5.9X
KSP     76.88 331 iPc    19 16.50   -0.1
        1.1s    72.00nm          5.6mb
                 i      19 38.50   83kmX
ALQ     77.09  54 eP     19 18.20   -0.1
        0.9s     6.30nm          4.6mb
MLR     77.26 322 eP     19 22.50    3.6X
                 e      52 14.00

CLL     77.63 333 iPc    19 20.20   -0.4
        1.1s    88.00nm          5.7mb
                 i      19 42.80   85kmX
SCH     77.89  19 eP     19 22.00   -0.1
PSZ     77.91 327 e(P)   19 23.00    0.6
PRU     78.21 331 iPc    19 24.30    0.4
        1.2s    33.00nm          5.2mb
                 e      19 46.00   81kmX
                 e      20 08.00
WIT     78.29 337 eP     19 25.50    1.2
EKA     78.44 343 P      19 26.00    0.9
        0.6s    24.30nm          5.3mb
SRO     78.61 328 iP     19 26.90    0.8
MOX     78.65 333 iPc    19 26.00   -0.3
        1.2s    35.00nm          5.2mb
                 i      19 49.00   87kmX
ZST     78.76 329 iP     19 27.40    0.4
HOF     78.85 333 eP     19 27.20   -0.2
        0.8s    32.00nm          5.3mb
WTS     78.98 336 iPc    19 28.00    0.0
        0.7s    45.00nm          5.5mb
BZS     79.05 325 eP     19 31.50    3.0X
KHC     79.27 331 iPc    19 29.70   -0.1
        0.9s    22.00nm          5.1mb
                 e      19 44.30   51km
WET     79.51 332 iPc    19 31.30    0.3
        0.8s    38.00nm          5.4mb
GRF     79.60 333 iPc    19 32.00    0.5
        0.9s    64.00nm          5.6mb
                 ed     19 33.90
                 e(pP)c 19 46.90   52km
                 e(sP)  19 53.80
ENN     80.32 336 iPc    19 35.20   -0.1
        0.8s    45.00nm          5.5mb
                 e      19 48.50   45kmX
ABH     80.62 335 eP     19 36.64   -0.3
PTJ     81.11 328 eP     19 37.60   -2.0
HRI     81.37 308 iPc    19 42.10    0.8
SOTA    81.73 331 iPc    19 43.00    0.1
        0.8s    16.80nm          5.1mb
                 i      19 57.90   52km
                 i      20 04.80
CDF     82.00 334 eP     19 44.20    0.0
        1.0s    32.00nm          5.3mb
SKO     82.04 322 iP     19 45.30    0.8
VAY     82.05 321 eP     19 44.50    0.0
OGA     82.10 331 iPc    19 45.00    0.1
        0.8s    16.00nm          5.1mb
TUL     82.38  47 ePd    19 46.00   -0.3
        0.8s    16.10nm          5.1mb
                 i      20 03.00   61km
JVI     82.57 307 iPc    19 48.40    0.9
HAU     82.65 335 eP     19 47.30   -0.2
        0.9s    14.75nm          5.0mb
BSF     82.66 334 eP     19 47.40   -0.3
        1.0s    12.00nm          4.8mb
OHR     83.02 322 eP     19 49.30   -0.3
        1.0s    70.00nm          5.6mb
GAC     83.44  29 ePd    19 51.30   -0.2
FLN     83.91 339 iPc    19 53.90    0.0
        1.1s    43.95nm          5.4mb
LDF     83.97 339 eP     19 54.70    0.5
        1.4s    56.65nm          5.4mb
RMN     84.04 307 iPc    19 55.60    0.5
LOR     84.06 336 iPc    19 54.70   -0.1
        0.9s    30.30nm          5.3mb
LBF     84.28 336 eP     19 55.70   -0.2
        0.9s    21.30nm          5.2mb
GRR     84.35 339 iPc    19 56.50    0.4
        1.2s    89.25nm          5.7mb
SSF     84.35 336 iPc    19 56.30    0.1
        0.8s    15.45nm          5.1mb
RSL     84.61 333 P      19 57.67   -0.1
SMF     84.63 336 eP     19 57.90    0.3
        0.9s    35.20nm          5.4mb
AVF     84.64 336 iPc    19 58.10    0.5
        1.3s    50.55nm          5.4mb
FIR     84.68 330 e(P)   19 59.00    1.2
LPF     84.73 339 eP     19 58.80    0.8
        1.4s    95.85nm          5.7mb
LPL     84.73 333 eP     19 58.90    0.5
        0.8s    14.80nm          5.1mb
LPG     84.74 333 eP     19 59.00    0.4
        0.8s    14.80nm          5.1mb
BGF     85.00 336 eP     20 00.30    0.8
MAF     85.39 336 eP     20 02.30    0.9
        0.9s    61.40nm          5.7mb
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TCF     85.43 337 eP     20 02.30   0.6
        1.0s    23.00nm          5.3mb
LSF     85.66 337 eP     20 03.40   0.6
        1.0s    65.00nm          5.7mb
MFF     85.81 338 eP     20 04.30   0.8
        1.0s    42.00nm          5.5mb
SBF     85.96 332 eP     20 03.90  -0.5
        0.8s    22.85nm          5.4mb
FRF     86.49 332 eP     20 07.10   0.2
RJF     86.53 337 eP     20 07.80   0.7
        1.0s    26.00nm          5.4mb
PGF     86.57 330 eP     20 07.10  -0.3
        0.9s     9.85nm          5.0mb
LRG     86.68 333 iPc    20 08.10   0.3
        1.7s   169.10nm          6.0mb
CAF     86.71 336 eP     20 09.10   1.1
        1.1s    43.95nm          5.6mb
LMR     86.74 332 eP     20 08.30   0.2
LFF     87.09 337 eP     20 11.10   1.3
        1.0s    34.00nm          5.5mb
LPO     87.19 337 eP     20 11.40   1.1
EPF     88.95 336 eP     20 18.70  -0.1
        1.0s     9.00nm          5.0mb
LPB    139.75  59 PKP    26 49.00  -4.2X
CNCB   140.03  59 PKP    26 45.00  -8.9X
SOB1   145.15  14 ePKP   27 04.10   1.9
                  e      27 20.70
PDCR   148.69  12 ePKP   27 08.00   0.1
                  e      27 11.60
                  e      27 15.60
                  e      27 31.20
BAO    149.36  30 ePKP   27 09.50   0.4
AIA    151.99 152 ePKP   27 16.80   5.5X
PPD    153.63  42 ePKP   27 17.10   2.1
     S.D. = 0.9  on 131 of 143 obs.
-------------------------------------
   JAN 20, 1991  11h 32m 52.16± 0.16s
   21.235 S ± 3.3km  170.029 E ± 4.2km
   DEPTH =  78.3km  (geophysicist)
   5.8mb ( 42 obs.)
 LOYALTY ISLANDS REGION          (189)
      Depth from broadband
      displacement seismograms.
      FAULT PLANE SOLUTION: P-Waves
       NP1:Strike=278 Dip=86 Slip= -81
       NP2:        32     10     -156
       Principal Axes:
        T              Plg=40  Azm=360
        P                48      198
      Comment: The focal mechanism is
        poorly controlled and
        corresponds to normal faulting
        with a small strike-slip
        component. The preferred fault
        plane is not determined.
      RADIATED ENERGY
       No. of sta:   7  Focal mech.  F
       Energy       9.5±3.5*10**12 Nm
      MOMENT TENSOR SOLUTION
      Dep  95            No. of sta: 12
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 1.20       Mtt=-0.72
        Mff=-0.48       Mrt= 5.74
        Mrf= 0.57       Mtf= 7.29
       Principal axes:
        T  Val=  9.36  Plg=31  Azm=322
        N       -0.01    51       99
        P       -9.35    21      218
      Best Double Couple:Mo=9.4*10**17
       NP1:Strike=357 Dip=52 Slip= 172
       NP2:        92     84      39
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 16S, 41C
      Centroid Location:
      Origin Time        11:33: 2.2 0.3
      Lat 21.03S 0.03 Lon 169.72E 0.02
      Dep  77.0 1.6 Half-duration  3.0
      Moment Tensor:   Scale 10**17 Nm
        Mrr=-2.39 0.14  Mtt= 4.78 0.32
        Mff=-2.39 0.32  Mrt= 7.70 0.14
        Mrf=-1.14 0.15  Mtf= 6.23 0.19
       Principal Axes:
        T  Val= 11.38  Plg=26  Azm=338
        N       -1.27    40       92
        P      -10.11    39      224
      Best Double Couple:Mo=1.1*10**18
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        NP1:Strike= 18 Dip=41 Slip=-168
        NP2:        278     82     -50
DZM     3.44 255 iPd    33 46.00   1.4
BKM     3.93 334 iP     33 54.50   3.2X
                 iS     34 45.00
NDF     7.81  65 iP     34 44.20  -1.0
SGE     8.28  65 iPc    34 57.60   5.7X
SVA     8.52  70 eP     34 59.40   4.3X
                 eS     37 01.60
VUN     8.57  69 eP     34 59.10   3.4X
                 eS     37 01.00
MBU     9.25  64 eP     35 09.10   4.1X
HNR    15.23 319 eP+    36 27.00   2.9
                 eS     39 15.00
VSG    15.51 319 eP     36 32.00   4.2X
                 eS     39 23.00
SVO    15.53 319 eP     36 32.00   4.0X
                 eS     39 22.00
BRS    16.87 245 iPc+   36 48.00   3.2X
                 e      37 10.00
                 eS     40 12.00
                 iScP   42 53.00
WLZ    17.23 165 P      36 49.60   0.4
                 e      36 57.50
                 e      37 07.60
HBZ    17.81 158 P      36 57.70   1.4
       1.4s    230.00nm          5.2mb
PUZ    18.23 159 P      37 00.90  -0.5
WHH    18.45 164 P      37 06.20   2.0
NGZ    18.51 166 eP     37 06.30   1.3
CNZ    18.52 166 P      37 06.30   1.3
NOZ    18.65 160 P      37 05.20  -1.2
COO    18.76 237 iPc    37 09.30   1.5
       0.3s     50.00nm          5.2mb
MNG    19.87 168 P      37 18.00  -1.6
       0.6s     80.00nm          5.2mb
KIW    20.00 169 P      37 20.70  -0.2
PGZ    20.04 166 P      37 18.90  -2.4
RMO    20.14 251 eP     37 23.00   0.5
       0.8s    295.00nm          5.7mb
TCW    20.24 171 P      37 22.10  -1.3
CAW    20.27 169 eP     37 23.00  -0.7
MRW    20.33 170 P      37 22.90  -1.3
WEL    20.39 170 P      37 25.00   0.1
                 S      41 12.00
MTW    20.40 168 eP     37 23.60  -1.4
                 e      37 39.80  78kmX
BLW    20.60 168 eP     37 24.80  -2.2
                 e      37 30.40  21kmX
THZ    20.61 174 P      37 27.80   0.6
                 e      37 41.50  61kmX
KHZ    21.33 173 P      37 35.00   0.7
       0.8s    204.00nm          5.5mb
LTZ    21.57 176 P      37 38.30   1.5
CNB    22.92 228 iPd    37 52.30   2.1
       0.3s    181.00nm          6.0mb
MSZ    23.44 184 eP     37 56.50   1.5
MMCZ   23.72 182 eP     37 58.70   0.8
MHZ    23.77 181 P      37 59.50   1.1
CMS    23.92 240 iPc    38 01.10   1.2
       1.0s    568.00nm          6.0mb
RAB    24.25 312 e(P)   38 02.00  -1.2
                 eS     42 16.00
PMG    24.96 295 eP     38 10.20   0.3
TOO    26.75 227 eP     38 27.00   0.6
       1.3s    522.00nm          5.9mb
YYYY   27.65 299 eP     38 34.00  -0.9
OIS    28.41 266 iPd    38 41.20  -0.3
       0.1s     38.00nm          6.0mb
BFD    28.63 230 iPc    38 43.60   0.3
       1.4s    316.00nm          5.8mb
ADE    30.69 237 eP     39 01.30  -0.4
       1.1s    172.15nm          5.7mb
WRA    33.39 266 P      39 23.00  -2.4
       0.6s    148.30nm          6.0mb
ASPA   33.42 259 iPd    39 24.00  -1.7
       0.8s    272.70nm          6.2mb
     Z 23s      5.30um          5.2MszX
                 eS     44 30.50
                 iPcS   45 50.40
                 iScS   49 40.10
JAY    34.08 299 ePc    39 30.50  -0.9
MTN    38.03 276 iPc    40 04.80   0.1
       0.3s    122.00nm          6.3mb
FORR   38.68 247 iPc    40 09.70  -0.3
       0.4s    108.00nm          6.1mb
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KNA     39.43 271 eP     40 16.00  -0.4
        0.6s    131.00nm          6.0mb
WARB    39.89 254 eP     40 19.50  -0.7
        0.5s    110.00nm          6.0mb
VAH     40.56  89 iP     40 45.60  19.9X
        1.1s     45.00nm
TPT     40.64  88 iP     40 46.60  20.3X
        1.1s     60.00nm
RUV     40.81  89 iP     40 47.90  20.2X
        1.1s     65.00nm
GUA     42.46 322 eP     40 42.20   1.0
        0.8s    131.34nm          5.8mb
                 eS     47 00.00
PJG     42.52 322 eP     40 41.70   0.0
COOL    44.66 247 eP     40 58.00  -1.0
MBL     46.63 261 iPc    41 14.60   0.0
        0.5s     31.00nm          5.5mb
MEKA    47.12 253 eP     41 18.00  -0.5
        0.4s     27.00nm          5.5mb
NWAO    47.99 244 eP     41 24.00  -1.2
        0.6s    200.00nm          6.2mb
      Z 20s      4.30um          5.4Msz
      N 20s      2.90um
      E 20s      4.00um
MUN     48.87 246 eP     41 31.00  -0.9
        1.0s    200.00nm          6.1mb
      Z 20s      5.90um          5.6Msz
MRWA    49.17 249 eP     41 33.50  -0.8
        0.6s     20.00nm          5.3mb
DRV     49.30 195 eP     41 33.80  -1.0
                 eS     11 48.00
MNI     49.59 291 ePd    41 37.50  -0.2
DAV     51.92 298 eP     41 56.00   0.7
SBA     56.69 181 iP     42 29.10  -0.2
PPR     59.05 296 iPc    42 47.00   0.3
PGP     59.28 301 ePd    42 47.00  -1.2
QCP     59.83 302 eP     43 04.00  12.1X
BAG     61.25 304 eP     43 00.50  -1.3
                 eS     51 15.00
KAKJ    63.73 333 P      43 17.60  -0.1
CHJJ    64.10 332 P      43 19.90  -0.2
IIDJ    64.10 331 P      43 19.90  -0.3
KAGJ    64.24 323 eP     43 21.50   0.3
MAJO    64.85 332 iPc    43 24.11  -0.9
                 iS     52 02.04
MAT     64.85 332 iPc    43 23.80  -1.3
        1.5s    236.11nm          5.9mb
                 eS     51 59.00
TSRJ    65.03 330 P      43 26.30   0.1
MTMJ    65.07 332 P      43 25.90  -0.6
NIIJ    65.10 333 P      43 27.10   0.5
KUMJ    65.29 324 eP     43 27.70  -0.2
YAMJ    65.47 334 eP     43 29.30   0.4
OFUJ    65.61 336 eP     43 29.30  -0.5
TATO    65.83 312 ePc    43 31.69   0.2
SHNJ    66.36 325 eP     43 33.90  -0.8
QZH     67.86 310 Pc     43 44.00  -0.4
        5.0s    880.00nm          5.9mb X
                 S      52 38.00
                 sS     53 16.00
SPA     68.90 180 eP     43 50.00  -0.5
        1.0s     85.00nm          5.6mb
      Z 20s      1.35um          5.2Msz
KGM     69.14 281 ePd    43 54.30   1.7
SSE     70.02 317 Pd     43 57.00  -0.6
        9.0s   1000.00nm          5.7mb X
      Z 20s      1.10um          5.1Msz
      N 12s      0.50um
                 pP     44 18.00  80kmX
                 esS    53 34.00
                 ScS    53 54.00
GZH     70.64 305 P      44 02.40   0.9
        1.3s     90.00nm          5.5mb
                 S      53 11.50
QIZ     71.21 300 Pc     44 04.50  -0.6
                 pP     44 28.00  90kmX
                 S      53 19.00
NJ2     72.15 316 Pd     44 10.80   0.4
        9.0s    900.00nm          5.7mb X
      Z 26s      0.80um          4.9MszX
                 pP     44 36.40  99kmX
                 S      53 27.80
IPM     72.26 282 ePc    44 11.00  -0.4
        0.9s     96.00nm          5.7mb
SNG     73.69 285 eP     44 18.50  -1.2
                 eS     53 46.00
WHN     74.23 312 Pc     44 23.50   1.0
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20d 11h

	3.0s	700.00nm		6.1mb		SAO	86.58	48	e(P)	45	34.00	6.0X		NUR	133.85	337	ePKP	52	00.90	-0.3		
		pP	44	49.00	98kmX				e	45	57.00	85kmX		LWI	135.47	243	iPKP-	52	12.00	6.0X		
		S	53	48.00		WDC	87.74	45	eP	45	34.70	1.2		PDCR	135.89	137	ePKP	51	54.30	-12.2X		
DL2	75.05	323 P	44	27.40	0.4				e	45	57.20	83kmX					e	52	06.60			
	4.0s	1100.00nm		6.1mb	X	MWC	87.80	52	eP	45	36.00	1.8					e	55	33.50			
	Z 40s	1.40um		5.0MszX					e	46	03.00	102kmX		SOB1	137.13	132	ePKP	51	56.30	-12.6X		
		pP	44	52.00	94kmX	FRI	87.91	49	eP	45	34.50	0.1					e	52	09.60			
		S	53	58.00		CMB	87.94	48	eP	45	34.70	0.1					e	52	37.30			
		sS	54	34.00					e	46	00.30	96kmX		HFS	137.68	343	ePKP	51	55.70	-12.8X		
		SS	58	52.00		ISA	88.16	51	eP	45	38.00	2.3			0.4s		1.20nm					
MDJ	75.22	331 Pd	44	28.50	0.6				e	46	04.00	97kmX		NAO	137.84	345	PKP	51	55.80	-13.0X		
	1.5s	300.00nm		6.0mb		S88	88.18	52	eP	45	36.00	0.1			0.7s		5.10nm					
	Z 30s	2.00um		5.2MszX					e	46	03.00	102kmX		BMR	142.31	322	ePKPd	52	15.00	-2.2		
		pP	44	54.00	98kmX	RVR	88.20	52	eP	45	38.00	2.1		CMP	142.61	318	ePKPc	52	15.00	-2.9X		
		PP	47	15.00					e	46	04.00	97kmX		KRA	142.80	328	ePKP	52	16.30	-1.7		
		S	54	00.00		MIN	88.24	45	eP	45	37.00	0.9					e	52	54.50			
		SKS	54	30.00		PLM	88.29	53	eP	45	37.00	0.4		TNR	142.90	319	ePKPd	52	15.00	-3.3X		
		SS	58	48.00					e	46	03.00	97kmX		SPC	143.19	327	ePKP	52	16.60	-2.4		
TIA	75.92	318 eP	44	31.50	-0.6	PEC	88.31	53	eP	45	36.00	-0.5		KDZ	143.94	312	iPKPd	52	18.00	-2.2		
SNY	76.04	326 Pc	44	32.10	-0.5				pP	46	05.00	110kmX		KSP	143.99	332	iPKPd	52	17.80	-2.2		
	6.0s	1100.00nm		6.0mb	X	CLC	88.86	51	eP	45	40.00	0.9			1.0s		44.00nm					
	Z 26s	1.40um		5.2MszX					e	46	03.00	85kmX					i	53	06.30			
	N 19s	0.80um				SHL	88.94	298	eP	45	40.20	0.4		PSZ	144.16	325	ePKP	52	18.50	-2.0		
	E 20s	0.80um							eS	56	01.00			PLD	144.24	314	ePKP	52	19.00	-1.7		
		iS	54	08.00		GTA	89.03	313	Pc	45	40.20	0.3		RZN	144.40	313	iPKPc	52	19.00	-2.3		
		sS	54	43.00			8.0s	640.00nm				5.9mb	X	TIM	144.68	321	iPKPd	52	21.00	-0.3		
CN2	76.54	328 iPc	44	35.30	-0.1		Z 26s	1.70um				5.4MszX		VTS	145.02	315	iPKPc	52	22.00	-0.2		
	5.0s	1000.00nm		6.0mb	X				sP	46	06.40			CLL	145.03	335	iPKP	52	20.80	-0.9		
	Z 24s	2.80um		5.5MszX					SKS	56	01.00				1.8s		340.00nm					
		epP	44	52.00	60kmX				eS	56	15.00			SRO	145.06	326	iPKP	52	21.20	-0.7		
		PP	47	29.00					S$	02	08.00			MMB	145.12	313	iPKPd	52	22.00	-0.3		
		S	54	13.00		GSC	89.21	52	eP	45	43.00	2.2		PRU	145.38	332	iPKPc	52	22.00	-0.4		
		sS	54	43.00					e	46	07.00	89kmX			1.1s		114.70nm					
		eSS	59	10.00		TPC	89.23	53	eP	45	42.00	1.1					e	53	20.00			
LOE	77.16	295 eP	44	39.80	0.5				e	46	07.00	93kmX		ZST	145.43	328	ePKP	52	21.60	-0.9		
GYA	77.56	305 P	44	42.00	0.4	GLA	89.69	54	eP	45	43.00	0.0		EKA	145.57	353	PKPd	52	22.40	-0.1		
		S	54	28.00					e	46	09.00	97kmX			0.7s		84.40nm					
NST	77.75	292 eP	44	48.00	5.4X	TOA	90.06	19	e(P)	45	42.30	-1.8		ESK	145.59	353	iPKPd	52	22.00	-0.6		
BSI	77.86	281 iPd	44	53.00	9.7X	TNP	90.16	49	eP	45	45.10	-0.2			0.4s		113.00nm					
BJI	78.95	321 iP	44	48.05	-0.6		1.0s	8.00nm				4.9mb		BEO	145.63	320	ePKP	52	22.50	-0.5		
	1.5s	150.00nm		5.7mb					pP	46	10.90	96kmX		UZD	145.68	324	iPKP	52	22.50	-0.5		
TIY	79.79	317 eP	44	54.00	0.5	LSA	91.20	301 P		45	51.70	1.1		VKA	145.77	328	ePKP	52	22.50	-0.6		
	1.0s	100.00nm		5.7mb		IMA	91.26	14	eP	45	49.80	0.1			3.0s		918.00nm					
	Z 11s	1.20um		5.5MszX			1.6s	37.50nm				5.5mb					i	52	24.40			
	N 10s	0.40um				PGC	91.32	37	eP	45	50.00	0.0					i	52	58.60			
KMI	79.95	302 ePc	44	55.70	0.9	FBA	91.76	17	eP	45	50.70	-1.1					i	53	02.80			
	Z 36s	1.75um		5.1MszX		PNT	93.84	38	eP	46	02.00	0.3					i	54	03.40			
		epPc	45	15.07	71kmX		1.1s	20.00nm				5.5mb		WIT	145.97	342	ePKP	52	24.50	1.3		
		eS	54	44.00		GUN	94.79	298 P		46	06.50	-0.5					e	52	52.50			
		iS	54	55.88			1.0s	42.00nm				5.8mb		VAY	146.02	314	iPKP	52	23.00	-0.7		
XAN	80.00	312 P	44	55.20	0.6	PKI	95.06	297 P		46	08.06	-0.1			1.2s		142.00nm					
		S	54	51.00		KKN	95.24	298 P		46	08.84	-0.1					i	52	50.40			
CHG	80.15	295 ePc	44	57.00	1.3		0.6s	28.00nm				5.9mb		MOX	146.09	335	iPKP	52	24.00	0.4		
	1.2s	97.27nm		5.6mb		DMN	95.32	297 P		46	09.40	0.1			2.2s		283.00nm					
CHTO	80.15	295 iPc	44	56.21	0.6		0.8s	85.00nm				6.2mb					e	53	04.00			
		epPc	45	17.07	78kmX	GKN	95.85	298 P		46	10.90	-0.7		HOF	146.25	335	ePKP	52	24.50	0.6		
		ePP	47	57.04			0.7s	37.00nm				6.0mb		KHC	146.43	332	iPKPd	52	24.10	-0.1		
		eHPP	47	57.87		ANMO	96.82	55	eP	46	22.00	6.1X			1.0s		75.00nm					
CD2	82.03	307 P	45	06.00	0.7	GBA	97.19	282 Pd		46	17.90	0.3					e	52	52.40			
		pP	45	25.20	70kmX		1.0s	12.10nm				5.4mb		SKO	146.47	315	iPKP	52	25.70	1.2		
		sP	45	34.00		HYB	97.47	286 eP		46	19.00	0.1			1.2s		257.00nm					
		iS	55	14.60		INK	98.20	18 eP		46	20.00	-1.0					i	52	58.00			
MHC	82.21	319 eP	45	05.00	-1.1		1.3s	55.00nm				5.9mb					i	53	06.50			
	1.2s	100.00nm		5.6mb		WMQ	99.11	313	ePDIF	46	25.58	-0.3		ATH	146.52	307	ePKP	52	25.00	0.4		
	Z 24s	2.00um		5.4MszX			Z 20s	1.00um				5.3Msz		WTS	146.64	341	ePKP	52	25.00	0.7		
		S	55	15.50					ePHPP	50	28.72				0.7s		42.00nm					
BTO	83.01	318 P	45	11.20	1.0				ePP	50	30.05						e	52	56.00			
		ePP	48	20.00					SKS	56	56.00			WET	146.73	332	iPKPc	52	25.80	1.1		
		S	55	25.00		YKA	102.09	27	ePdiff	46	37.20	-1.5		VAM	146.95	303	ePKP	52	27.60	2.2		
HIA	83.20	330 ePc	45	10.08	-0.8		0.7s	1.30nm				4.8mb	X	KMR	146.96	330	iPKP+	52	28.00	3.0X		
		epPc	45	31.76	80kmX	M8C	105.99	14	ePdiff	46	56.50	0.7					ipPKP	53	25.30			
		esPd	45	42.19		CNCB	111.71	119	ePKP	51	20.00	-0.9		GRF	147.00	334	ePKP	52	27.20	2.1		
		eHPP	48	17.69		ZOBO	111.87	118	ePKP	51	18.00	-3.2X			Z 32s		1.00um				5.4MszX	
		ePP	48	20.18			Z 24s	0.45um				5.0MszX					e	52	28.60			
		iSKS	55	23.25					LR	00	48.00			OHR	147.30	314	iPKPc	52	26.20	0.3		
AIA	84.41	160 eP	45	17.50	0.7	PPD	121.04	134	ePKP	51	35.80	-2.1			1.2s		333.00nm					
LZH	84.61	312 iPc	45	19.64	1.2	GAC	121.86	49	ePKP	51	36.50	-2.2					i	52	54.50			
	8.0s	890.00nm		5.8mb	X	FR8	122.60	27	ePKP	51	37.00	-2.5		PTJ	147.53	325	e(PKP)	52	24.90	-1.2		
		epPc	45	39.51	72kmX	VAO	123.14	139	ePKP	51	42.20	0.2		VLI	147.53	306	ePKP	52	28.00	1.7		
		eHPP	48	36.03		DAG	124.25	2	iPKPc	51	40.20	-2.3		EVR	147.56	310	ePKP	52	28.50	2.1		
		ePP	48	36.86			0.7s	8.22nm						ZAG	147.57	325	iPKP	52	28.50	2.4		
		iSKS	55	35.17		KRI	125.80	229	ePKP	51	48.00	0.6		TNS	147.62	338	ePKPc	52	28.60	2.5		
		eS	55	43.44					i	52	14.00			BCAO	147.68	243	iPKPd	52	28.10	0.9		
PRS	86.42	49 eP	45	32.00	4.7X	SCH	126.10	37	ePKP	51	44.00	-2.7X			1.0s		218.00nm					
		e	45	56.30	91kmX	BAO	127.71	131	ePKPd	51	49.00	-2.1					id	52	31.90			
BRK	86.57	47 e(P)	45	34.40	6.5X	KAF	132.18	338	iPKP	51	57.00	-1.0					ic	52	56.00			
		e	45	57.20	84kmX		0.6s	9.40nm									ic	53	06.50			

```
ENN   147.99 341 ePKP  52 29.00   2.4
       0.7s     47.00nm
                    e  52 58.00
KBA   148.04 329 iPKPd 52 28.60   1.6
       0.7s     51.50nm
                    i  52 58.80
ITM   148.13 307 ePKP  52 29.50   2.2
VBY   148.16 325 ePKPc 52 30.00   3.0X
                    i  52 30.40
FUR   148.17 333 iPKPc 52 30.00   3.0X
       2.0s    413.00nm
LJU   148.17 327 ePKP  52 27.00  -0.1
                    i  52 30.00
ABH   148.22 338 ePKP  52 30.21   3.2X
CEY   148.43 326 ePKP  52 30.50   3.0X
ETA   148.46 356 ePKP  52 30.30   3.0X
       0.7s     51.00nm
VOY   148.51 327 iPKP  52 30.10   2.4
                    e  52 57.40
FVI   148.66 329 PKPc  52 32.10   4.4X
WATA  148.67 331 iPKPc 52 30.20   2.2
       0.8s     86.30nm
                    i  52 45.60
                    i  53 07.60
RIY   148.72 326 iPKPc 52 30.80   2.9X
SOTA  148.92 332 iPKPc 52 31.20   2.8X
       0.6s     99.20nm
                    i  52 58.70
                    i  53 09.10
                    i  53 55.10
HVAR  148.95 321 iPKP  52 31.20   2.8X
GWF   148.96 337 PKP   52 31.99   3.7X
ECP   148.99 356 iPKPc 52 31.10   3.0X
       0.6s     90.00nm
OGA   149.27 331 ePKP  52 29.90   0.9
                    i  52 33.90
VVI   149.27 329 PKPc  52 34.60   5.8X
CDF   149.56 337 PKP   52 33.00   3.7X
CTI   149.59 330 PKP   52 36.00   6.6X
ECH   149.76 337 PKP   52 33.73   4.2X
MOF   150.08 337 PKP   52 34.69   4.6X
VITF  150.18 338 PKP   52 35.03   5.0X
BSF   150.22 337 PKP   52 35.16   4.9X
HAU   150.23 338 iPKPd 52 34.70   4.5X
       0.7s     74.95nm
SAL   150.44 330 PKP   52 37.30   6.8X
LOMF  150.61 336 PKP   52 36.18   5.3X
MDI   150.69 331 PKPc  52 36.60   5.8X
ORI   150.70 316 PKP   52 38.40   7.3X
RSM   150.70 326 PKP   52 39.10   8.2X
ARV   150.73 325 PKP   52 38.90   7.8X
TDS   150.98 315 PKPc  52 38.90   7.4X
SFI   151.01 326 PKP   52 39.40   8.0X
VAI   151.03 332 PKPc  52 38.00   6.6X
SGO   151.16 318 PKPc  52 38.70   7.0X
ASS   151.16 324 PKPc  52 39.10   7.3X
AQU   151.22 322 PKP   52 39.60   7.7X
SDI   151.39 321 PKPc  52 39.10   6.9X
MME   151.40 328 PKP   52 40.00   7.6X
FIR   151.42 327 ePKP  52 31.00  -1.0
FLN   151.50 347 ePKPd 52 37.20   5.2X
       0.7s     86.15nm
     Z 21s      0.68um          5.4Msz
ORX   151.56 333 PKP   52 37.11   4.7X
ORO   151.56 333 PKP   52 39.40   7.0X
BOB   151.58 330 PKPc  52 40.00   7.6X
LDF   151.58 346 iPKPd 52 37.40   5.3X
       0.8s     64.50nm
MNS   151.61 323 PKPc  52 39.40   6.9X
LOR   151.71 340 iPKPd 52 38.20   5.8X
       0.9s     76.80nm
LBF   151.93 339 ePKP  52 38.50   5.7X
GRR   151.94 347 ePKP  52 38.40   5.7X
       0.7s     48.50nm
RDP   151.99 322 PKPc  52 41.60   8.5X
SSF   152.01 340 iPKPd 52 38.90   6.1X
LSD   152.04 334 PKP   52 39.47   6.2X
RSL   152.07 335 PKP   52 39.21   6.0X
PCP   152.16 331 PKP   52 38.45   5.2X
LPL   152.17 334 ePKP  52 39.70   6.3X
       0.7s     38.05nm
LPG   152.17 334 ePKP  52 39.80   6.3X
       0.9s     64.00nm
RSP   152.25 333 PKP   52 38.34   4.9X
SMF   152.27 339 ePKP  52 39.40   6.2X
AVF   152.30 340 ePKP  52 39.20   6.0X
LPF   152.31 347 ePKP  52 39.30   6.1X
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       0.7s     63.95nm
ATN   152.34 313 PKP   52 42.40   8.8X
CKI   152.38 331 PKP   52 40.80   7.4X
BHB   152.49 333 PKP   52 38.65   5.0X
BNI   152.57 334 PKP   52 42.70   8.8X
FIN   152.58 331 PKP   52 39.06   5.3X
RRL   152.63 334 PKP   52 40.60   6.5X
ROB   152.66 331 PKP   52 39.58   5.7X
BGF   152.66 341 ePKP  52 40.00   6.2X
       0.7s     34.15nm
DOI   152.77 332 PKP   52 41.00   6.9X
PZZ   152.83 333 PKP   52 39.27   5.0X
ENR   152.91 332 PKP   52 39.37   5.0X
STV   152.94 332 PKP   52 39.37   5.0X
FOUF  152.95 333 i(PKP)52 41.99   7.8X
                    e  53 06.46
IMI   152.95 331 PKP   52 40.40   6.0X
MAF   153.05 341 ePKP  52 41.00   6.7X
TCF   153.10 341 ePKP  52 41.00   6.6X
SBF   153.19 331 ePKP  52 41.10   6.4X
       0.7s     35.30nm
SSB   153.21 337 PKP   52 41.77   7.1X
LSF   153.34 342 ePKP  52 41.40   6.7X
       0.7s     23.70nm
PGF   153.45 327 iPKPd 52 42.00   6.9X
       0.6s     45.10nm
MFF   153.46 345 ePKP  52 41.90   7.0X
FRF   153.78 332 ePKP  52 42.50   7.1X
LRG   153.99 332 ePKP  52 42.90   7.2X
     Z 21s      0.65um          5.4Msz
LMR   154.02 332 ePKP  52 43.20   7.4X
RJF   154.20 341 ePKP  52 43.70   7.7X
     Z 21s      0.70um          5.5Msz
CAF   154.37 340 ePKP  52 44.10   7.9X
LFF   154.76 342 ePKP  52 45.00   8.4X
LPO   154.86 341 ePKP  52 45.10   8.3X
KIC   164.37 200 PKP   52 49.74   1.4
     S.D. = 1.2  on 192 of 301 obs.
--------------------------------------
?  JAN  20, 1991  11h 51m 23.35± 0.98s
   39.388 N ± 8.1km    28.040 E ± 9.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 2.8 (ISK).

DST      0.50  64 iPg    51 33.10  -0.5
                 iSg    51 40.60
EDC      0.97 352 iPg    51 42.00   0.3
IZM      1.16 212 iPn    51 44.70  -0.4
KHL      1.57 132 ePn    51 52.00   0.6
     S.D. = 0.9  on   4 of   4 obs.
--------------------------------------
*  JAN  20, 1991  12h 22m 17.44± 1.49s
   44.662 N ±10.9km     8.353 E ± 7.6km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                      (545)
      ML 2.3 (LDG), 2.2 (GEN).

PCP      0.18 131 P     22 21.30  -0.3
                 S     22 24.07
FIN      0.46 193 P     22 26.22  -0.7
                 S     22 33.09
ROB      0.50 223 P     22 26.84  -0.8
                 S     22 34.22
BHB      0.80 283 P     22 32.68  -0.3
                 S     22 43.45
ENR      0.80 237 P     22 32.17  -0.8
                 S     22 42.53
IMI      0.82 204 P     22 34.12   0.7
                 S     22 45.30
STV      0.85 241 P     22 33.71  -0.1
                 S     22 44.78
SBF      1.04 220 Pg    22 37.70   0.7
                 Sg    22 51.00
FRF      1.65 229 Pg    22 46.00  -0.6
                 Sg    23 09.00
LRG      1.88 231 Pg    22 50.30   0.5
                 Sg    23 14.60
LMR      1.88 226 Pg    22 51.60   1.7
                 Sg    23 16.70
     S.D. = 0.9  on  11 of  11 obs.
--------------------------------------
&  JAN  20, 1991  12h 35m 40.90s
   57.765 N          150.725 W
   DEPTH =  47.7km  (geophysicist)
   2.5mb (  1 obs.)
 GULF OF ALASKA                      ( 15)
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      <AEIC>.

SYI     1.22 315 eP    36 00.69  -1.2
XLV     1.77 343 eP    36 08.70  -0.9
CNPM    1.79 352 iP    36 09.07  -0.8
                 eS    36 29.89
CDD     1.93 308 eP    36 11.00  -0.9
                 eS    36 34.76
HOM     1.96 346 iP    36 11.21  -1.0
BRLK    2.01 358 eP    36 11.83  -1.2
AUI     2.12 319 eP    36 13.42  -1.1
NNL     2.30 353 iP    36 16.38  -0.8
SEW     2.44  15 iP    36 17.25  -1.8
                 eS    36 41.78
PDB     2.72 320 iP    36 21.12  -1.9
SLKM    2.76   5 iP    36 21.81  -2.0
RED     2.86 339 iP    36 22.86  -2.4
RSO     2.90 340 iP    36 23.60  -2.3
RS2     2.90 340 iP    36 23.65  -2.2
REF     2.92 340 iP    36 23.75  -2.3
RDT     2.95 344 iP    36 23.89  -2.5
RDN     2.95 340 iP    36 24.14  -2.4
                 eS    36 57.82
NKA     3.00 355 iP    36 26.62  -0.4
KNIM    3.02  30 eP    36 25.51  -1.8
                 eS    36 57.00
NCT     3.03 339 iP    36 25.26  -2.3
SPU     3.49 349 eP    36 31.60  -2.5
CKL     3.54 347 eP    36 32.30  -2.6
BGL     3.61 347 eP    36 34.15  -1.7
CGLM    3.61 350 eP    36 34.25  -1.6
KNK     3.84  17 eP    36 36.61  -2.4
PLRM    3.92  11 eP    36 37.32  -2.8
VZW     3.93  31 eP    36 37.83  -2.5
VLZ     4.05  32 eP    36 39.82  -2.1
GHO     4.12  12 eP    36 40.92  -2.1
SKT     4.25 355 eP    36 42.62  -2.1
KLU     4.46  31 eP    36 46.19  -1.6
TOA     4.92  26 eP    36 51.93  -2.3
TZL     5.05  30 eP    36 53.11  -3.0
GLB     5.09  41 eP    36 55.02  -1.7
YKA    18.42  60 eP    39 56.70   2.7
       0.6s     0.20nm          2.5mb
      35 obs. assaciated
--------------------------------------
   JAN  20, 1991  12h 43m 17.07± 0.25s
   31.532 N ± 5.5km   77.463 E ± 4.2km
   DEPTH =  33.0km  (normal)
   4.9mb ( 26 obs.)
 NORTHERN INDIA                      (308)
      ML 4.5 (NDI). Felt in Himachal
      Prodesh.

NDI     2.85 184 iPnd  44 01.80   0.6
                 eSn   44 35.00
GKN     7.16 118 P     45 02.80   0.5
       0.4s   237.00nm          6.5mb X
DMN     7.72 118 P     45 10.96   0.8
       0.6s   384.00nm          6.6mb X
KKN     7.76 117 P     45 10.78   0.1
       0.6s   435.00nm          6.7mb X
PKI     7.97 118 P     45 13.90   0.1
       0.6s   387.00nm          6.7mb X
KSH     8.00 352 P     45 14.80   0.8
                 S     46 42.00
GUN     8.16 114 P     45 15.86  -0.6
       0.6s   350.00nm          6.6mb X
QUE     9.14 264 eP    45 23.70  -6.1X
                 e(S)  47 08.20
BOM    13.26 200 eP    46 18.50  -7.0X
                 eS    48 57.50
POO    13.35 195 iP    46 19.70  -7.0X
SHL    13.99 112 eP    46 32.50  -2.8
                 eS    49 02.50
HYB    14.09 176 iPc   46 29.60  -6.9X
       1.0s    95.00nm          5.4mb
                 eS    49 03.00
WMQ    14.69  30 Pd    46 42.00  -2.2
     Z 11s      0.60um
                 S     49 25.50
GBA    17.84 180 P     47 17.70  -6.8X
                 S     50 29.70
GTA    19.80  60 Pc    47 47.80   0.1
       5.0s   490.00nm          5.1mb X
                 pP    47 51.80  15kmX
                 sP    47 56.30
KOD    21.19 180 eP    48 01.80  -0.7
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20d 12h

LZH	22.36	71 iPc	48 14.80	1.0	
	5.0s	500.00nm		5.2mb X	
	Z 20s	0.53um		4.0Msz	
	E 15s	0.65um			
		pP	48 20.50	20kmX	
		sP	48 25.00		
		PP	48 43.00		
CD2	22.48	85 eP	48 18.10	3.1X	
	1.0s	50.00nm		4.9mb	
		eS	52 23.00		
KMI	23.12	100 eP	48 23.00	1.6	
CHG	23.15	118 ePc	48 22.40	0.9	
	0.8s	10.26nm		4.4mb	
BDT	24.17	121 eP	48 32.30	1.0	
	0.8s	26.00nm		4.8mb	
GYA	26.00	94 P	48 50.00	1.2	
XAN	26.51	76 P	48 53.50	0.0	
BTO	27.70	62 eP	49 05.00	0.7	
TIY	29.32	68 eP	49 19.00	0.2	
CN2	39.40	58 P	50 46.00	0.7	
MLR	41.96	305 eP	51 13.00	6.5X	
MDJ	42.38	57 Pd	51 10.50	0.6	
KAF	44.67	329 eP	51 27.50	-0.7	
NUR	44.96	326 eP	51 28.90	-1.6	
PRU	49.58	311 eP	52 09.00	2.2	
MAT	49.87	67 eP	52 08.00	-1.2	
NAO	51.71	325 P	52 23.20	0.3	
	0.6s	5.20nm		4.7mb	
BSF	54.90	309 eP	52 46.60	-0.2	
	0.8s	13.45nm		5.0mb	
HAU	55.17	309 eP	52 48.50	-0.1	
	0.9s	13.10nm		5.0mb	
SBF	55.23	304 eP	52 49.00	-0.2	
	0.8s	20.15nm		5.2mb	
LPG	55.37	306 eP	52 50.70	0.3	
	0.8s	15.45nm		5.1mb	
LPL	55.38	306 eP	52 50.70	0.3	
	0.6s	16.25nm		5.2mb	
RSL	55.41	306 P	52 50.53	-0.1	
LBF	56.94	308 eP	53 00.90	-0.5	
	0.6s	4.50nm		4.7mb	
LOR	56.96	309 eP	53 01.80	0.3	
	0.7s	5.50nm		4.7mb	
SMF	57.11	308 eP	53 02.40	-0.1	
	0.7s	11.00nm		5.0mb	
SSF	57.24	309 eP	53 03.10	-0.3	
	0.6s	6.30nm		4.8mb	
AVF	57.40	308 eP	53 04.40	-0.1	
	0.8s	8.05nm		4.8mb	
MAF	58.06	308 eP	53 09.50	0.3	
TCF	58.29	308 eP	53 11.10	0.3	
	1.0s	14.00nm		5.0mb	
CAF	58.72	306 eP	53 14.30	0.5	
	1.1s	14.65nm		5.0mb	
LSF	58.75	308 eP	53 13.90	-0.1	
	0.9s	9.00nm		4.9mb	
LPO	59.39	306 eP	53 18.80	0.4	
FLN	59.46	311 eP	53 18.20	-0.6	
	1.1s	14.65nm		5.0mb	
EKA	59.56	319 P	53 22.00	2.5	
	1.3s	18.80nm		5.1mb	
LFF	59.63	307 eP	53 20.60	0.6	
	0.8s	6.70nm		4.8mb	
MFF	59.78	309 eP	53 21.50	0.4	
GRR	59.79	311 eP	53 20.80	-0.3	
LPF	60.00	311 eP	53 22.00	-0.5	
DAG	60.98	345 eP	53 25.00	-4.0X	
KRI	66.48	231 eP	54 02.50	-3.4X	
BUL	69.52	229 iPc	54 24.30	-0.6	
	0.7s	6.16nm		4.8mb	
MBC	71.96	4 eP	54 38.00	-0.6	
	0.9s	15.00nm		5.0mb	
WRA	74.78	125 P	54 55.00	-1.0	
	0.6s	5.60nm		4.7mb	
ASPA	76.99	128 eP	55 07.10	-1.3	
	0.7s	5.10nm		4.7mb	
FBA	77.63	18 (P)	55 13.00	1.7	
INK	77.82	11 eP	55 11.80	-0.4	
FRB	81.30	345 eP	55 35.00	4.0X	
YKA	85.80	6 eP	55 51.70	-2.3	
	0.5s	1.70nm		4.5mb	
ZOBO	145.24	288 PKP	02 53.00	-1.2	
CNCB	145.40	287 PKP	02 54.00	-0.5	
S.D. = 1.0 on 57 of 67 obs.					

% JAN 20, 1991 13h 07m 13.98± 1.12s
37.044 N ±20.4km 31.213 E ±17.5km
DEPTH = 33.0km (normal)
TURKEY (366)

ELL	1.09	255 iPn	07 38.50	5.5X	
KHL	1.85	314 ePn	07 44.00	0.0	
YER	2.34	273 iPn	07 51.10	0.0	
ADI	5.14	139 eP	08 31.00	0.2	
		eS	09 27.00		
ZNT	5.73	146 eP	08 39.00	0.0	
		eS	09 40.00		
DSI	6.46	147 eP	08 49.00	-0.2	
S.D. = 0.2 on 5 of 6 obs.					

JAN 20, 1991 13h 23m 05.27± 0.54s
27.996 S ± 6.8km 66.803 W ±11.4km
DEPTH = 176.8 ± 8.5 km
3.8mb (1 obs.)
CATAMARCA PROVINCE, ARGENTINA (130)

CYA	1.00	117 iPd	23 33.00	0.1	
RTLL	3.62	203 iPd	24 03.60	1.5	
RTCV	4.14	201 iPc	24 09.50	0.8	
JACH	5.70	214 eP	24 35.00	5.8X	
ROCH	6.15	215 eP	24 35.00	-0.2	
SAN	6.37	210 eP	24 37.50	-0.5	
PCH	6.45	209 eP	24 40.40	1.3	
TACH	6.67	211 eP	24 41.50	-0.3	
LCCH	6.83	216 eP	24 43.00	-1.0	
LNV	7.14	213 eP	24 46.00	-2.0	
		i	26 05.10		
CNCB	11.19	354 P	25 42.00	0.2	
LPB	11.47	354 P	25 46.00	0.6	
ZOBO	11.73	354 P	25 48.00	-0.9	
PPD	15.24	71 e(P)	26 32.00	-0.7	
YKA	97.92	340 eP	36 22.20	0.9	
	0.6s	0.20nm		3.8mb	
ASPA	124.89	203 ePKP	41 45.70	-0.4	
	0.9s	3.40nm			
WRA	128.14	206 PKP	41 53.00	0.6	
	0.6s	1.10nm			
S.D. = 1.0 on 16 of 17 obs.					

? JAN 20, 1991 13h 27m 07.08± 5.22s
44.859 N ±37.9km 3.302 E ±25.7km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.1 (LDG).

CAF	0.88	275 Pg	27 24.00	0.0	
		Sg	27 35.50		
RJF	1.34	290 Pg	27 31.40	-0.4	
		Sg	27 48.30		
MAF	1.46	339 Pg	27 32.40	-1.0	
		Sg	27 50.10		
TCF	1.62	332 Pg	27 35.70	-0.1	
		Sg	27 55.60		
BGF	1.73	350 Pg	27 37.40	0.0	
		Sg	27 58.00		
SMF	1.83	12 Pg	27 38.90	0.1	
		Sg	28 01.30		
LSF	1.87	319 Pg	27 40.80	1.4	
		Sg	28 02.50		
S.D. = 0.9 on 7 of 7 obs.					

JAN 20, 1991 13h 27m 41.41± 1.21s
44.978 N ± 9.7km 3.312 E ± 7.6km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
MD 2.8 (STR). ML 2.8 (LDG).

LBL	0.26	350 Pg	27 46.55	-0.3	
		Sg	27 49.84		
PYM	0.80	345 Pg	27 56.47	-0.6	
		Sg	28 07.02		
CAF	0.89	267 Pg	27 57.40	-1.1	
		Sg	28 09.00		
SSB	0.92	70 Pg	27 58.43	-0.6	
		Sg	28 09.96		
PLDF	1.02	12 Pg	28 00.11	-0.6	
		Sg	28 12.92		
RJF	1.31	285 Pn	28 04.60	-1.1	
		Pg	28 05.60		
		Sg	28 22.00		
MAF	1.35	337 Pg	28 06.30	0.1	
		Sg	28 23.80		
TCF	1.52	330 Pn	28 07.80	-0.9	
		Pg	28 08.80		
		Sg	28 28.80		
LPO	1.54	260 Pg	28 09.60	0.7	
		Sg	28 29.30		
BGF	1.61	349 Pn	28 08.60	-1.4	
		Pg	28 11.30		
		Sg	28 31.80		
SMF	1.71	12 Pg	28 12.20	0.8	
		Sg	28 34.10		
LSF	1.78	316 Pg	28 14.50	2.0	
		Sg	28 36.60		
AVF	1.81	1 Pg	28 15.00	2.1	
		Sg	28 38.20		
LFF	1.83	270 Pg	28 13.80	0.7	
		Sg	28 37.20		
LBF	2.06	13 Pg	28 19.30	2.8X	
		Sg	28 45.20		
SSF	2.09	4 Pg	28 20.00	3.1X	
		Sg	28 45.80		
LOR	2.32	9 Pg	28 24.40	4.1X	
		Sg	28 53.00		
EPF	2.90	229 Pg	28 34.20	5.7X	
		Sg	29 10.50		
MFF	2.91	305 Pg	28 35.80	7.2X	
		Sg	29 13.30		
S.D. = 1.2 on 14 of 19 obs.					

• JAN 20, 1991 13h 31m 44.41± 1.56s
45.106 N ±11.6km 3.128 E ±10.8km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.2 (LDG). MD 2.1 (STR).

LBL	0.15	33 Pg	31 47.81	-0.1	
		Sg	31 50.82		
PYM	0.65	353 Pg	31 57.11	-0.3	
		Sg	32 08.34		
CAF	0.78	257 Pg	31 58.70	-0.9	
		Sg	32 10.10		
RJF	1.16	280 Pg	32 07.00	1.0	
		Sg	32 23.50		
MAF	1.18	341 Pg	32 07.00	0.5	
		Sg	32 25.00		
TCF	1.35	332 Pn	32 09.00	-0.2	
		Pg	32 10.20		
		Sg	32 30.80		
LPO	1.44	254 Pg	32 10.80	0.2	
		Sg	32 30.70		
BGF	1.47	352 Pn	32 09.70	-1.2	
		Pg	32 12.20		
		Sg	32 33.00		
LSF	1.60	316 Pg	32 15.90	3.1X	
		Sg	32 39.00		
SMF	1.62	18 Pg	32 14.10	1.0	
		Sg	32 36.20		
SSF	1.97	8 Pg	32 21.40	3.2X	
		Sg	32 47.70		
LOR	2.22	13 Pg	32 25.80	4.0X	
		Sg	32 55.60		
S.D. = 0.9 on 9 of 12 obs.					

• JAN 20, 1991 13h 45m 11.41± 0.97s
48.693 N ±13.0km 149.245 E ±11.8km
DEPTH = 426.4 ± 12.6 km
4.2mb (9 obs.)
NORTHWEST OF KURIL ISLANDS (220)

KUSJ	6.43	211 eP	46 49.40	-0.8	
		eS	48 02.30		
ASAJ	6.46	227 eP	46 51.50	0.9	
OFUJ	11.05	212 eP	47 41.30	-0.8	
MAT	14.59	218 eP	48 21.00	0.6	
	1.0s	6.00nm		4.0mb	
LZH	35.31	266 Pc	51 31.00	1.1	
	0.8s	16.00nm		4.5mb	
		i	52 26.00		
		i	54 51.50		
FBA	36.30	40 P	51 38.00	0.3	
CHTO	50.13	252 P	53 27.20	-0.3	
YKA	50.92	36 eP	53 32.90	0.2	
	0.6s	0.80nm		3.2mb	
GUN	52.29	271 P	53 43.40	-0.4	
	0.5s	13.00nm		4.5mb	
KKN	52.77	271 P	53 47.02	0.0	
	0.5s	11.00nm		4.5mb	
PKI	52.83	271 P	53 47.48	-0.1	
	0.4s	6.00nm		4.3mb	
DMN	53.01	271 P	53 48.80	0.0	

GKN 53.06 272 P 53 48.86 -0.2
0.5s 28.00nm 4.9mb
NAO 65.79 339 P 55 13.20 -0.8
0.5s 1.40nm 3.9mb
WRA 69.61 195 P 55 38.00 0.3
1.3s 0.90nm 3.2mb
S.D. = 0.7 on 15 of 15 obs.

? JAN 20, 1991 14h 59m 02.50± 4.92s
44.540 N ±14.4km 6.550 E ±34.6km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.3 (GEN).

PZZ 0.40 95 P 59 10.84 0.2
S 59 16.48
RRL 0.42 24 P 59 11.05 0.0
S 59 16.79
BHB 0.59 59 P 59 14.13 -0.4
S 59 21.61
STV 0.63 118 P 59 15.15 -0.1
S 59 22.84
RSP 0.79 39 P 59 18.23 0.2
S 59 27.97
S.D. = 0.3 on 5 of 5 obs.

% JAN 20, 1991 16h 05m 08.76± 0.74s
38.123 N ± 6.8km 23.175 E ± 7.3km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 2.8 (ATH).

ATH 0.45 109 ePg 05 17.90 -0.1
NEO 1.18 2 ePb 05 31.00 0.2
EVR 1.33 307 ePb 05 33.20 -0.2
ITM 1.37 227 ePb 05 34.00 0.1
VLI 1.42 188 ePb 05 34.50 0.0
S.D. = 0.2 on 5 of 5 obs.

? JAN 20, 1991 16h 24m 52.99± 2.81s
4.960 N ±26.1km 73.576 W ±34.6km
DEPTH = 33.0km (normal)
3.6mb (1 obs.)
COLOMBIA (103)

HOBC 2.62 257 eP 25 36.00 1.9
DIAC 3.10 238 eP 25 40.50 -0.4
CLMC 3.16 250 eP 25 41.40 -0.4
HOOC 3.39 244 eP 25 42.60 -2.6
SILC 3.56 231 eP 25 48.00 0.3
eS 26 34.50
ANCC 3.58 247 eP 25 47.00 -0.6
SALC 3.68 238 eP 25 50.50 1.3
PURC 3.82 227 eP 25 51.90 0.5
YKA 64.85 340 eP 35 30.70 -0.1
0.8s 0.40nm 3.6mb
S.D. = 1.5 on 9 of 9 obs.

? JAN 20, 1991 16h 25m 49.17± 5.57s
47.373 N ±42.5km 7.182 E ±11.1km
DEPTH = 10.0km (geophysicist)
SWITZERLAND (544)
ML 2.2 (LDG).

BSF 0.53 330 Pg 25 59.80 -0.1
Sg 26 05.00
FEL 0.75 48 ePn 26 03.97 0.0
HAU 0.85 319 Pg 26 05.60 0.1
Sg 26 18.00
CDF 1.04 3 Pg 26 09.00 0.1
Sg 26 21.70
S.D. = 0.2 on 4 of 4 obs.

& JAN 20, 1991 17h 00m 13.02s
62.359 N 150.284 W
DEPTH = 10.0km
CENTRAL ALASKA (1)
<AEIC>.

CUT 0.05 8 iP 00 15.13 0.0
eS 00 16.89
HUR 0.69 25 eP 00 25.49 -1.2
SKT 0.70 238 eP 00 26.03 -0.8
PWA 0.74 165 iP 00 26.62 -0.8
GHO 0.87 132 iP 00 28.45 -1.4
eS 00 39.76
SUA 0.92 194 iP 00 30.33 -0.4
eS 00 43.51
PLRM 0.94 144 iP 00 30.10 -0.9
eS 00 43.13
PMS 1.17 163 iP 00 33.91 -1.0
eS 00 49.63
RND 1.24 31 iP 00 35.17 -0.9
eS 00 50.67
KNK 1.29 137 eP 00 35.92 -0.9
eS 00 53.02
NCG 1.31 224 eP 00 36.89 -0.4
eS 00 55.19
CGLM 1.33 219 eP 00 37.44 -0.2
CRP 1.41 220 eP 00 39.20 0.3
SPU 1.45 216 eP 00 39.54 0.2
BGL 1.49 223 eP 00 39.72 -0.2
MCK 1.51 23 eP 00 40.34 0.2
CKL 1.52 221 eP 00 40.80 0.4
NKA 1.68 196 eP 00 44.24 1.6
SLKM 1.86 179 eP 00 45.22 0.0
TOA 1.94 96 eP 00 46.85 0.4
RDT 2.06 211 eP 00 49.14 1.0
GLI 2.13 133 eP 00 49.32 0.3
VZW 2.20 125 eP 00 50.61 0.4
NCT 2.21 216 eP 00 49.65 -0.7
SDG 2.21 84 eP 00 50.13 -0.2
KLU 2.24 111 eP 00 51.17 0.4
VLZ 2.25 121 eP 00 49.50 -1.3
TZL 2.30 96 eP 00 51.43 -0.1
PAX 2.31 72 eP 00 52.98 1.2
KNIM 2.36 148 eP 00 51.56 -0.9
30 obs. associated

% JAN 20, 1991 17h 12m 34.80± 0.93s
38.151 N ± 9.0km 23.242 E ± 9.2km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 2.9 (ATH).

ATH 0.42 115 ePg 12 43.90 0.6
NEO 1.15 359 ePb 12 56.00 -0.4
EVR 1.36 305 ePb 12 59.00 -0.9
ITM 1.42 228 ePb 13 00.20 -0.5
VLI 1.45 190 ePb 13 00.00 -1.1
VLS 2.09 272 ePg 13 12.50 2.2
APE 2.11 120 ePg 13 15.00 4.3X
S.D. = 1.6 on 6 of 7 obs.

% JAN 20, 1991 17h 16m 13.26± 0.75s
38.146 N ± 6.9km 23.196 E ± 7.6km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 2.8 (ATH).

ATH 0.45 113 ePb 16 22.50 0.2
NEO 1.16 1 ePb 16 34.80 -0.1
EVR 1.33 306 ePb 16 38.00 0.1
ITM 1.39 227 ePb 16 39.00 0.2
VLI 1.44 188 ePb 16 39.00 -0.4
S.D. = 0.4 on 5 of 5 obs.

% JAN 20, 1991 17h 31m 54.23± 0.83s
37.823 N ± 8.0km 29.069 E ± 8.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.0 (ISK).

KHL 0.61 36 iPg 32 05.20 -1.5
iSg 32 15.70
YER 0.93 223 iPg 32 11.00 -1.0
BCK 1.26 106 iPn 32 18.30 0.6
ELL 1.26 148 iPn 32 18.00 0.2
ALT 1.48 33 iPn 32 21.60 0.6
IZM 1.54 292 iPn 32 22.80 1.1
S.D. = 1.3 on 6 of 6 obs.

JAN 20, 1991 18h 51m 29.92± 0.47s
6.859 N ± 8.8km 73.071 W ± 8.2km
DEPTH = 166.3 ± 6.6 km
4.3mb (2 obs.)
NORTHERN COLOMBIA (99)

SDV 3.14 50 iPnc 52 21.70 1.2
iSn 52 59.40
HOBC 3.94 231 ePc 52 29.51 -1.1
eS 53 08.80
BUGC 4.33 227 eP 52 35.00 -0.7
TOV 4.36 48 ePn 52 37.50 1.5
eSn 53 26.70
CLMC 4.56 230 eP 52 38.35 -0.5
DIAC 4.72 221 eP 52 41.11 0.3
HOOC 4.89 227 eP 52 43.01 -0.2
ANCC 5.03 229 eP 52 44.53 -0.3
CEOS 5.16 65 iP 52 45.70 -0.9
eS 53 43.30
SILC 5.27 218 ePc 52 49.27 0.9
SALC 5.29 223 ePc 52 48.06 -0.3
PURC 5.57 216 ePc 52 53.22 0.7
OLLA 6.95 63 eP 53 09.20 -1.2
ZOBO 23.49 168 P 56 27.50 0.9
CNCB 24.05 168 P 56 33.00 1.2
FRB 56.87 2 eP 00 58.00 -1.1
YKA 63.25 340 eP 01 42.30 -0.2
0.6s 3.00nm 4.4mb
LIC 67.55 86 P 02 09.70 -1.2
KIC 67.82 86 P 02 11.20 -1.4
INK 73.01 340 eP 02 43.70 0.9
MBC 73.78 350 eP 02 48.50 1.4
0.6s 4.00nm 4.3mb
TRI 82.93 45 eP 03 41.30 3.9X
ASPA 149.17 234 ePKP 10 56.50 0.1
0.5s 4.70nm
S.D. = 1.0 on 22 of 23 obs.

JAN 20, 1991 18h 54m 33.62± 0.68s
23.836 N ± 3.6km 121.663 E ± 4.3km
DEPTH = 21.3 ± 4.5 km
5.0mb (23 obs.) 4.5Msz (3 obs.)
TAIWAN (244)
ML 5.1 (BJI). Mo=1.6•10••18 Nm
(PPT).

TWD 0.25 346 iPc 54 40.20 0.6
eS 54 45.00
TWF1 0.59 215 iPd 54 45.60 0.5
eS 54 54.40
TWC 0.79 12 iPc 54 49.60 1.1
TWO 0.87 300 iPd 54 49.60 -0.4
eS 55 00.10
TWG 1.15 208 eP 54 55.00 0.6
TWZ 1.26 357 iPc 54 56.60 0.6
ANP 1.35 355 iP 54 58.50 1.1
QZH 3.01 292 iPnd 55 19.00 -2.0
Z 10s 2.16um
Sn 55 53.50
SSE 7.24 357 P 56 17.50 -3.4X
0.7s 26.00nm 5.4mb
Z 12s 6.80um 3.8Msz
N 10s 3.60um
S 57 37.00
BAG 7.46 188 eP 56 27.00 2.9X
GZH 7.67 266 P 56 25.60 -1.3
Z 14s 6.00um
N 10s 3.20um
E 12s 5.60um
NJ2 8.55 344 Pd 56 36.20 -2.9X
0.8s 200.00nm 6.4mb X
Z 12s 3.70um 4.1MszX
N 10s 6.60um
pP 56 43.50
S 58 07.00
WHN 9.33 317 eP 56 45.50 -4.3X
Z 12s 2.70um
N 10s 5.10um
E 11s 3.80um
QIZ 12.00 249 Pd 57 27.20 0.7
N 14s 1.40um
E 15s 1.10um
eS 59 39.70
TIA 12.94 343 eP 57 37.30 -1.7
Z 12s 4.20um
N 10s 3.10um
XAN 15.08 315 P 58 06.00 -1.1
N 10s 2.20um
E 11s 2.40um
TIY 15.93 332 eP 58 17.80 -0.3
Z 14s 4.50um
N 11s 4.80um
BJI 16.81 345 eP 58 31.00 1.8
2.0s 120.00nm 4.7mb
Z 14s 8.30um 4.4MszX
N 11s 1.72um
KMI 17.28 278 eP 58 37.50 2.1
CD2 17.38 298 eP 58 36.00 -0.6
SNY 18.01 5 Pc 58 44.00 -0.2

20d 18h

	4.0s	800.00nm		5.2mb X		
Z	12s	2.90um		4.8Msz		
E	14s	2.60um				
		pP	58	53.00		
HHC	18.96	336 eP	58	56.80	0.7	
Z	14s	2.40um				
N	10s	0.70um				
		pP	59	07.50		
MAT	19.07	45 eP	58	57.00	-0.2	
BTO	19.37	332 P	59	02.00	1.1	
N	11s	5.00um				
E	11s	2.40um				
		ePP	59	22.00		
LZH	19.64	312 iPc	59	04.30	0.1	
	5.0s	510.00nm		5.1mb X		
		pP	59	09.70	21kmX	
		sP	59	15.00		
LOE	19.71	255 iPd	59	05.60	0.8	
CN2	20.16	8 eP	59	08.50	-0.8	
Z	15s	4.60um		5.0MszX		
N	13s	1.20um				
E	13s	0.50um				
		pP	59	13.00	17kmX	
MDJ	21.72	15 eP	59	24.00	-1.2	
CHG	21.74	261 ePc	59	26.60	1.0	
	1.0s	70.50nm		5.0mb		
NST	21.81	252 eP	59	31.80	5.5X	
BDT	22.19	257 eP	59	31.70	1.6	
GTA	24.14	315 eP	59	49.40	0.2	
	5.0s	490.00nm		5.3mb X		
Z	13s	3.30um		5.0MszX		
E	12s	2.20um				
		pP	59	55.20	21kmX	
		sP	59	58.20		
		eS	04	06.00		
		sS	04	14.00		
LSA	27.81	289 Pc	00	24.50	0.5	
GUN	32.38	285 Pc	01	04.42	0.0	
	0.9s	96.00nm		5.7mb		
PKI	32.80	284 Pc	01	07.60	-0.5	
	1.1s	78.00nm		5.5mb		
KKN	32.91	285 Pc	01	08.56	-0.4	
	0.9s	106.00nm		5.8mb		
DMN	33.07	284 Pc	01	10.06	-0.3	
	0.9s	105.00nm		5.7mb		
GKN	33.48	285 P	01	13.12	-0.6	
	1.1s	147.00nm		5.8mb		
WMQ	34.21	314 P	01	20.90	1.0	
Z	12s	1.40um		4.9MszX		
N	11s	0.90um				
E	10s	1.30um				
NDI	39.98	287 eP	02	08.00	-0.5	
HYB	40.73	269 eP	02	15.20	0.4	
GBA	42.95	264 P	02	36.00	3.0X	
	1.4s	12.70nm		4.5mb		
KOD	44.18	260 eP	02	45.00	1.6	
POO	44.73	273 eP	02	46.50	-1.0	
MBL	44.76	182 eP	02	46.00	-1.5	
	0.6s	8.00nm		4.8mb		
QIS	47.46	157 eP	03	09.00	0.1	
ASPA	48.69	165 iPc	03	17.90	-0.6	
	0.9s	16.80nm		5.1mb		
QUE	48.77	290 eP	03	19.90	0.6	
WARB	49.96	174 eP	03	27.00	-1.2	
	0.5s	10.00nm		5.1mb		
MAIO	54.39	299 eP	04	02.00	0.5	
		eS	15	36.00		
SRS	59.12	148 iP	04	34.00	-1.1	
ADE	60.67	164 e(P)	04	45.50	-0.1	
TOO	65.06	159 iPd	05	15.40	0.7	
TTA	65.59	30 e(P)	05	17.00	-0.9	
IMA	66.32	26 eP	05	22.00	-0.6	
	1.1s	13.40nm		5.0mb		
FBA	68.92	27 eP	05	38.30	-0.4	
PMR	68.96	31 eP	05	38.20	-0.8	
	0.5s	19.70nm		5.5mb		
TOA	70.22	30 eP	05	47.30	0.5	
INK	73.38	22 eP	06	04.50	-0.9	
MBC	73.50	13 eP	06	04.50	-1.5	
	0.5s	2.00nm		4.4mb		
NAO	79.00	332 P	06	35.50	-1.7	
	0.9s	6.50nm		4.7mb		
KSP	80.97	322 eP	06	48.60	0.6	
YKA	83.12	23 eP	06	58.50	-0.4	
	0.6s	9.60nm		5.1mb		
KHC	83.32	321 eP	07	01.00	0.7	
GRF	84.38	322 eP	07	07.00	1.4	

Z	19s	0.20um		4.5Msz		
SQTA	85.65	320 e(P)	07	12.00	-0.1	
PNT	89.09	35 ePd	07	30.00	1.4	
LPG	89.18	320 eP	07	28.80	-0.7	
	0.6s	2.70nm		4.7mb		
LPL	89.18	320 eP	07	28.70	-0.7	
	0.6s	3.60nm		4.8mb		
LOR	89.81	323 eP	07	30.60	-1.4	
	0.6s	1.80nm		4.5mb		
Z	19s	0.25um		4.7Msz		
LBF	89.91	323 eP	07	31.40	-1.1	
SSF	90.12	323 eP	07	32.40	-1.1	
SMF	90.18	322 eP	07	32.80	-1.0	
	0.8s	5.35nm		4.8mb		
AVF	90.37	323 eP	07	33.60	-1.0	
	0.7s	3.30nm		4.7mb		
MAF	91.14	323 eP	07	37.30	-0.9	
TCF	91.30	323 eP	07	38.30	-0.7	
RJF	92.28	322 eP	07	43.40	-0.1	
Z	19s	0.17um		4.5Msz		
FRB	92.34	5 eP	07	46.00	2.7X	
WDC	92.47	43 ePc	07	45.10	0.7	
SES	92.66	31 eP	07	46.00	0.9	
FFC	93.27	24 iPd	07	48.50	0.7	
	0.7s	12.00nm		5.4mb		
ORV	93.71	44 eP	07	51.30	1.1	
CMB	95.30	44 ePc	07	57.90	0.3	
PRS	95.64	46 e(P)	08	00.70	1.6	
LLA	95.76	46 e(P)	08	00.80	1.1	
FRI	96.35	45 eP	08	02.70	0.4	
ZOBO	168.12	52 PKP	14	40.00	-0.9	
LPB	168.31	53 ePKP	14	42.00	1.2	
CNCB	168.57	54 PKP	14	43.00	1.9	
		i	15	51.00		
SIV	171.78	19 PKP	14	42.00	-0.1	
S.D. = 1.0		on 83 of 90 obs.				

JAN 20, 1991 19h 02m 22.01± 0.59s
45.773 N ± 7.3km 9.993 E ± 5.1km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.6 (LDG), 2.4 (VIE).

MDI	0.20	271 Pd	02	27.40	1.1	
		eSg	02	31.10		
SAL	0.41	114 P	02	29.60	-0.8	
		eSg	02	35.50		
VAI	0.86	277 P	02	41.00	2.5X	
		eSn	02	54.10		
CTI	1.19	76 P	02	43.00	-1.3	
		eSg	03	02.30		
OGA	1.31	33 ePg	02	46.40	0.1	
ORO	1.42	265 P	02	49.40	1.5	
		eSg	03	08.90		
SQTA	1.67	30 iPgc	02	53.00	1.4	
		iSg	03	18.00		
SCE	1.74	43 eP	02	52.70	0.1	
BDI	1.76	166 P	02	52.00	-0.9	
CKI	1.81	223 P	02	54.50	1.0	
		eSn	03	18.00		
FVI	2.10	66 P	02	59.50	1.8	
LPG	2.29	264 Pn	03	03.10	2.4	
		Sn	03	30.80		
LPL	2.30	265 Pn	03	03.50	2.7X	
		Sn	03	31.80		
SBF	2.64	225 Pn	03	05.20	-0.2	
		Sn	03	35.00		
CDF	3.23	326 Pn	03	13.50	-0.3	
HAU	3.35	313 Pn	03	15.40	-0.1	
LBF	4.34	288 Pn	03	27.50	-2.0	
		Sn	04	18.40		
SMF	4.36	284 Pn	03	28.00	-1.8	
LOR	4.49	292 Pn	03	29.50	-2.1	
		Sn	04	22.20		
S.D. = 1.5		on 17 of 19 obs.				

JAN 20, 1991 19h 20m 35.82± 0.47s
45.692 N ± 5.2km 10.016 E ± 4.4km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.7 (LDG), 2.5 (VIE).

MDI	0.23	292 Pd	20	42.10	1.4	
		eSg	20	47.00		
SAL	0.37	103 P	20	42.50	-0.9	
		eSg	20	49.20		
BOB	1.01	204 P	20	55.90	0.9	
		eSg	21	10.50		
CTI	1.20	72 P	20	58.00	-0.2	
		eSg	21	14.00		
OGA	1.37	30 ePg	21	01.70	0.6	
ORO	1.43	268 P	21	01.60	-0.3	
		eSg	21	22.70		
BDI	1.68	166 Pd	21	06.30	0.8	
		eSn	21	27.30		
SQTA	1.74	28 iPgd	21	07.60	1.3	
		iSg	21	29.90		
SCE	1.79	40 eP	21	07.80	0.7	
PII	2.00	169 P	21	09.50	-0.5	
LPG	2.30	266 Pn	21	16.30	1.6	
LPL	2.31	267 Pn	21	16.50	1.7	
CRE	2.48	146 P	21	16.20	-0.8	
SBF	2.59	226 Pn	21	18.30	-0.3	
BSF	3.08	315 Pn	21	26.60	1.1	
		Sn	22	02.10		
CDF	3.30	326 Pn	21	27.70	-1.0	
HAU	3.42	314 Pn	21	29.10	-1.2	
		Sn	22	10.50		
GRC1	3.46	17 ePg	21	41.30	10.5X	
		eSg	22	26.10		
LBF	4.38	289 Pn	21	42.20	-1.7	
		Sn	22	31.00		
SMF	4.39	285 Pn	21	42.40	-1.7	
		Sn	22	33.80		
LOR	4.54	293 Pn	21	44.50	-1.6	
		Sn	22	36.60		
S.D. = 1.2		on 20 of 21 obs.				

% JAN 20, 1991 19h 27m 09.38± 0.76s
59.577 N ± 6.3km 5.699 E ± 8.0km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 2.5 (BER).

KMY	0.43	212 iPc	27	18.34	0.1	
		eS	27	23.26		
ODD1	0.58	54 eP	27	22.02	0.9	
		eSg	27	30.28		
BER	0.83	347 eP	27	25.81	0.4	
		eS	27	37.83		
ASK	0.94	345 iP	27	27.74	0.4	
		eSg	27	40.37		
SUE	1.56	343 eP	27	36.38	-0.7	
		eSg	27	58.63		
HYA	1.61	8 eP	27	38.01	0.1	
		eSg	28	01.74		
MOL	3.13	16 iP	27	59.05	-0.6	
		eS	28	35.07		
NRA0	3.14	66 Pn	27	59.20	-0.6	
		Lg	28	51.00		
S.D. = 0.7		on 8 of 8 obs.				

* JAN 20, 1991 19h 44m 58.89± 1.64s
23.399 N ±12.2km 69.708 E ±15.9km
DEPTH = 33.0km (normal)
4.9mb (5 obs.)
INDIA (314)

POO	6.20	141 eP	46	36.00	5.4X	
QUE	7.20	341 eP	46	44.40	-0.3	
		e	48	07.70		
NDI	8.56	50 eP	47	09.00	5.5X	
HYB	10.21	124 eP	47	24.00	-2.3	
		eS	49	22.50		
GBA	12.19	142 P	47	54.80	1.7	
		S	50	03.80		
GKN	14.21	68 P	48	20.32	0.2	
	0.6s	21.00nm		5.0mb		
DMN	14.52	70 P	48	25.20	1.0	
	0.7s	22.00nm		4.8mb		
KKN	14.71	69 P	48	26.74	0.1	
	0.6s	30.00nm		4.9mb		
PKI	14.77	70 P	48	27.20	-0.4	
	0.6s	20.00nm		4.7mb		
GUN	15.26	69 P	48	33.94	0.0	
	0.8s	82.00nm		5.0mb		
S.D. = 1.4		on 8 of 10 obs.				

% JAN 20, 1991 19h 49m 45.30± 0.74s
38.176 N ± 6.8km 23.200 E ± 7.6km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 2.9 (ATH).

```
ATH      0.46 116 ePb    49 54.50   -0.1
NEO      1.13   1 ePb    50 06.50    0.0
EVR      1.32 305 ePn    50 09.70    0.0
ITM      1.42 226 ePn    50 11.00   -0.1
VLI      1.47 188 ePb    50 12.00    0.2
     S.D. = 0.2  on   5 of   5 obs.
-------------------------------------
   JAN  20, 1991  19h 59m 12.85± 0.79s
   38.157 N ± 7.1km   23.388 E ± 9.3km
   DEPTH =  33.0km  (normal)
 GREECE                          (364)
     ML 2.8 (ATH).

ATH      0.32 125 ePb    59 21.00    0.2
NEO      1.16 354 ePn    59 33.00    0.2
EVR      1.45 302 ePn    59 36.00   -1.1
VLI      1.48 194 ePn    59 37.00   -0.4
ITM      1.52 230 ePn    59 38.00    0.0
VLS      2.21 271 ePn    59 49.00    1.1
KZN      2.49 330 ePn    59 52.00    0.0
VAY      3.22 349 ePn    00 06.00    3.7X
     S.D. = 0.8  on   7 of   8 obs.
-------------------------------------
%  JAN  20, 1991  20h 00m 10.89± 0.91s
   38.186 N ± 8.3km   23.162 E ± 9.3km
   DEPTH =  10.0km  (geophysicist)
 GREECE                          (364)
     MD 3.1 (ATH).

ATH      0.49 116 ePg    00 20.00   -0.8
NEO      1.12   2 ePg    00 33.00    1.1
EVR      1.29 305 ePb    00 33.50   -1.3
ITM      1.40 225 ePg    00 37.00    0.5
VLI      1.48 187 ePg    00 38.00    0.5
     S.D. = 1.4  on   5 of   5 obs.
-------------------------------------
&  JAN  20, 1991  21h 02m 08.20s
   35.100 N          118.317 W
   DEPTH =   6.0km  (geophysicist)
 CENTRAL CALIFORNIA              ( 39)
     <PAS-P>. ML 2.5 (PAS).

ABL      0.78 252 iPc    02 22.70   -1.3
BCH      1.45 274 eP     02 33.80   -1.3
PEC      1.54 141 eP     02 36.00   -0.2
PLM      2.12 145 eP     02 46.20    1.4
         4 obs. assacioted
-------------------------------------
?  JAN  20, 1991  21h 35m 54.72± 0.95s
   37.069 N ± 9.0km   29.492 E ± 7.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)

ELL      0.46 134 iPg    36 04.00   -0.2
BCK      0.96  66 iPn    36 13.30    0.3
YER      0.97 274 iPn    36 13.30    0.1
KHL      1.25   1 ePn    36 17.80   -0.3
     S.D. = 0.4  on   4 of   4 obs.
-------------------------------------
*  JAN  20, 1991  21h 37m 09.40± 1.01s
   42.514 N ±10.8km   83.220 E ±10.6km
   DEPTH =  33.0km  (normal)
   4.2mb (  6 obs.)
 NORTHERN XINJIANG, CHINA        (332)
     ML 4.3 (BJI).

WMQ      3.52  67 ePn    38 05.80    2.5
KSH      6.27 243 Pn     38 44.00    1.8
GTA     12.92  98 eP     40 13.00   -0.5
LSA     14.29 151 eP     40 30.00   -1.9
GKN     14.52 175 P      40 33.86   -0.7
        0.8s     9.00nm          4.3mb
GUN     14.73 171 P      40 38.14    0.7
        0.6s    23.00nm          4.7mb
KKN     14.79 173 P      40 38.46    0.4
        0.5s     7.00nm          4.3mb
DMN     14.95 173 P      40 41.04    0.8
PKI     15.01 172 P      40 41.26    0.1
        0.6s     9.00nm          4.2mb
TIY     22.79  92 eP     42 09.30   -0.9
GYA     24.98 122 P      42 32.60    1.1
CHTO    27.13 146 (P)    42 50.20   -1.2
HFS     44.57 318 eP     45 17.40   -2.2
        0.4s     0.70nm          3.9mb
YKA     74.37   8 eP     48 39.50   -5.6X
        0.7s     0.50nm          3.6mb
     S.D. = 1.5  an  13 of  14 obs.
-------------------------------------
?  JAN  20, 1991  22h 08m 16.59± 2.86s
     5.944 S ±19.6km  147.117 E ±29.3km
   DEPTH =  74.3 ± 17.8 km
   3.8mb (  1 obs.)
 EAST PAPUA NEW GUINEA REGION    (207)

YYYY     1.18 255 eP     08 38.00    0.0
PMG      3.44 179 iPc    09 09.00    0.0
ASPA    21.73 214 eP     13 03.40    0.0
        1.0s     4.00nm          3.8mb
CHTO    53.46 299 P      17 32.00    0.3
GUN     67.93 303 P      19 10.40    0.0
KKN     68.39 303 P      19 13.00    0.0
GKN     69.00 303 P      19 16.40   -0.3
     S.D. = 0.3  on   7 of   7 obs.
-------------------------------------
%  JAN  20, 1991  22h 19m 11.05± 0.80s
   40.622 N ± 7.5km   28.977 E ± 6.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
     MD 2.4 (ISK).

YLV      0.31 100 iPg    19 18.00    0.5
ISK      0.45   8 ePg    19 20.50    0.3
HRT      0.56  69 iPg    19 21.70   -0.8
                 iSg    19 29.70
EDC      0.89 252 ePg    19 28.00   -0.2
DST      1.05 195 iPn    19 30.90    0.0
     S.D. = 0.7  on   5 of   5 obs.
-------------------------------------
?  JAN  20, 1991  22h 20m 05.92± 1.96s
     3.456 N ±21.7km   95.415 E ±12.6km
   DEPTH =  33.0km  (normal)
   4.8mb (  3 obs.)
 OFF W COAST OF NORTHERN SUMATERA(705)

BSI      2.03 357 eP     20 40.00    1.5
IPM      5.71  79 ePd    21 31.00    0.4
CHG     15.65  12 eP     23 45.00   -0.8
CHTO    15.65  12 P      23 44.90   -0.9
        1.0s     5.75nm          3.7mb X
PKI     25.81 339 Pd     25 36.40    0.0
        0.5s    13.00nm          4.8mb
DMN     25.96 339 Pd     25 36.96   -0.6
        0.4s     8.00nm          4.6mb
GUN     25.96 340 Pd     25 37.92    0.1
        0.6s    47.00nm          5.3mb X
KKN     26.06 339 Pd     25 38.48    0.0
        0.9s    27.00nm          4.9mb
GKN     26.49 338 Pd     25 42.62    0.3
        0.7s    70.00nm          5.4mb X
     S.D. = 0.8  an   9 of   9 obs.
-------------------------------------
?  JAN  20, 1991  22h 47m 51.32± 0.96s
   37.056 N ± 9.3km   29.452 E ± 7.5km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
     MD 3.6 (ISK).

ELL      0.48 130 iPg    48 01.00   -0.1
                 iSg    48 08.00
YER      0.94 275 iPn    48 09.30    0.0
BCK      0.99  66 iPn    48 10.30    0.1
KHL      1.27   3 iPn    48 14.80   -0.1
ALT      2.06  14 ePn    48 30.00    3.5X
     S.D. = 0.2  on   4 of   5 obs.
-------------------------------------
*  JAN  20, 1991  23h 22m 20.66± 0.92s
   31.660 S ± 7.8km   71.352 W ±13.0km
   DEPTH =  77.2 ±  9.4 km
   4.5mb (  5 obs.)
 NEAR COAST OF CENTRAL CHILE     (135)

JACH     1.20 148 iPd    22 42.50    0.0
ROCH     1.34 168 iPc    22 43.80   -0.6
IHA      1.38 190 iPc    22 44.10   -0.6
                 iS     22 56.40
LCCH     1.82 186 iPd    22 50.30   -0.3
SAN      1.88 162 iPd    22 51.30   -0.1
                 i      23 20.40
TACH     2.02 170 iPc    22 53.80    0.5
PCH      2.08 160 eP     22 54.50    0.3
                 i      23 22.50
RTRS     2.20  48 iPc    22 57.50    1.7
RTLL     2.48  83 iP     23 01.20    1.4
CYA      5.79  58 ePd    23 44.00   -1.8
CCH     14.98  20 eP     26 01.00   11.2X
CNCB    15.10  12 Pc     25 51.00   -0.5
ARE     15.13 359 iPd    25 57.00    5.3X
LPB     15.35  12 P      25 57.00    2.4
        1.0s    56.00nm          4.7mb
                 i      26 01.50
ZOBO    15.60  12 Pc     25 56.50   -1.5
        1.0s    30.00nm          4.4mb
                LR      31 12.00
SIV     18.19  33 P      26 28.00   -1.6
PPD     20.26  67 eP     26 51.30   -0.9
VAO     23.28  74 eP     27 23.90    1.6
                 e      27 39.10
BAO     26.60  59 eP     27 51.00   -2.7
TUL     71.02 339 e(P)   33 31.30   -0.7
        0.6s     3.50nm          4.5mb
LIC     73.49  72 P      33 47.76    0.8
TIC     73.74  71 P      33 49.24    0.8
KIC     73.80  72 Pc     33 49.74    0.9
        0.8s    19.00nm          5.1mb
TNP     81.50 325 P      34 33.00    2.0
YKA    100.03 341 ePdiff 35 58.10    0.1
        0.5s     0.30nm          4.2mb
WRA    123.08 209 PKP    41 10.00   -0.2
        0.5s     2.60nm
POO    146.04 104 ePKP   41 50.00   -2.8
GBA    146.22 115 PKP    41 55.00    1.9
HYB    149.29 110 ePKP   42 04.00    6.0X
     S.D. = 1.5  on  26 of  29 obs.
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?  JAN  20, 1991  23h 37m 17.54± 0.94s
   48.022 N ±16.7km  146.321 E ±29.7km
   DEPTH = 472.9 ± 14.9 km
   3.8mb (  5 obs.)
 SEA OF OKHOTSK                  (663)

ASAJ     4.67 215 eP     38 42.20    1.5
KUSJ     5.05 194 P      38 42.20   -2.1
                 eS     39 48.30
OFUJ     9.55 202 P      39 32.20    0.9
                 eS     41 19.40
FBA     38.06  39 P      43 55.50    0.6
        0.8s     2.80nm          3.8mb
INK     43.06  32 eP     44 35.00    0.0
MBC     44.97  20 eP     44 50.00    0.0
YKA     52.61  35 eP     45 46.90   -0.6
        0.6s     1.50nm          3.5mb
NAO     65.70 338 P      47 14.70   -0.7
        0.7s     1.90nm          3.8mb
TNP     66.70  59 P      47 22.90    0.7
WRA     68.50 192 P      47 32.00   -0.9
        0.3s     1.00nm          3.9mb
ASPA    72.22 192 eP     47 55.50    0.6
        0.6s     4.40nm          4.2mb
     S.D. = 1.2  an  11 of  11 obs.
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   JAN  21, 1991  00h 16m 13.30± 0.47s
   25.204 N ± 5.9km  122.299 E ± 7.2km
   DEPTH = 217.0 ±  4.4 km
   4.6mb ( 12 obs.)
 TAIWAN REGION                   (243)

ANP      0.71 269 eP     16 43.00   -0.6
TWC      0.72 215 iPd    16 43.40   -0.1
TWD      1.29 210 iPd    16 46.80   -0.3
                 eS     17 11.20
TWF1     2.06 207 iPd    16 53.70   -0.3
TWK      2.54 221 iPd    16 39.50  -19.6X
TWG      2.62 206 ePc    17 00.60    0.6
NJ2      7.46 337 Pd     18 01.00    0.7
WHN      8.82 309 Pc     18 18.20    0.2
        1.0s   100.00nm          5.0mb
GYA     14.14 278 P      19 26.40    0.8
XAN     14.58 310 P      19 30.10   -0.8
TIY     15.03 328 eP     19 37.70    1.3
CD2     17.32 293 Pc     20 02.20   -1.1
        0.7s   100.00nm          5.4mb
HHC     17.99 333 eP     20 11.60    1.3
CN2     18.73   7 eP     20 16.80   -1.1
LZH     19.20 309 iPc    20 23.50    0.6
        1.2s    31.00nm          4.7mb
MDJ     20.25  15 eP     20 33.00   -0.3
GTA     23.62 312 P      21 07.00    0.8
        1.2s    10.00nm          4.3mb
GUN     32.61 283 P      22 26.86   -0.1
        0.6s    19.00nm          4.9mb
PKI     33.05 282 P      22 30.18   -0.6
```

21d 00h

	0.7s	8.00nm			4.4mb
KKN	33.15	283 P	22	31.08	-0.4
	0.7s	14.00nm			4.7mb
DMN	33.32	282 P	22	32.28	-0.7
GKN	33.70	283 P	22	35.58	-0.5
	0.7s	16.00nm			4.8mb
GBA	43.67	263 Pd	23	59.00	0.5
	0.7s	2.30nm			3.7mb
ASPA	49.86	166 eP	24	47.80	1.2
	0.6s	14.90nm			4.7mb
INK	71.90	22 ePd	27	14.40	0.3
MBC	72.05	13 eP	27	14.50	-0.3
NAO	78.07	332 P	27	47.90	-1.2
	0.6s	1.00nm			3.7mb
YKA	81.64	23 eP	28	08.10	0.1
	0.6s	2.60nm			4.1mb
	S.D. = 0.8	on 27 of 28 obs.			

JAN 21, 1991 00h 21m 48.48± 0.56s
38.301 N ± 4.8km 22.106 E ± 6.5km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 3.0 (ATH).

EVR	0.66	339 ePn	22	00.30	-1.3
ITM	1.13	187 ePn	22	09.40	-0.2
VLS	1.20	265 ePb	22	10.70	-0.2
ATH	1.31	104 ePb	22	13.00	0.3
NEO	1.33	41 ePn	22	12.00	-1.0
VLI	1.71	157 ePn	22	18.60	0.1
KZN	2.02	353 ePn	22	23.00	0.0
OHR	2.98	341 ePn	22	37.50	0.8
VAY	3.04	7 ePn	22	38.00	0.6
SKO	3.70	352 ePn	22	4B.00	1.1
	S.D. = 0.9	on 10 of 10 obs.			

? JAN 21, 1991 00h 23m 44.80± 2.85s
1.879 S ±21.0km 100.400 E ±20.5km
DEPTH = 67.9 ± 21.3 km
5.0mb (5 obs.)
SOUTHERN SUMATERA (274)

PPI	1.41	360 iP	24	09.00	0.1
		iS	24	20.00	
KGM	4.B5	37 ePc	24	57.10	0.2
IPM	6.45	6 ePd	25	18.90	-0.4
	0.7s	34.50nm			5.0mb
PKI	32.64	335 P	30	12.74	-0.1
GUN	32.74	336 Pc	30	14.06	0.3
	0.6s	3B.00nm			5.4mb
DMN	32.81	334 P	30	14.24	0.0
KKN	32.89	335 Pc	30	14.78	-0.1
	0.7s	19.00nm			5.0mb
GKN	33.35	334 Pc	30	18.86	0.0
	0.7s	14.00nm			5.0mb
WRA	37.71	121 P	31	16.00	20.2X
	0.7s	1.60nm			
ASPA	39.00	126 iPd	31	06.50	-0.1
	0.8s	12.30nm			4.9mb
	S.D. = 0.2	on 9 of 10 obs.			

? JAN 21, 1991 00h 29m 13.77± 0.97s
37.078 N ± 9.4km 29.453 E ± 7.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.4 (ISK).

ELL	0.49	132 ePg	29	23.50	-0.3
		eSg	29	32.50	
YER	0.94	274 iPn	29	31.90	0.2
BCK	0.98	67 iPn	29	33.00	0.5
KHL	1.24	3 iPn	29	36.50	-0.4
ALT	2.04	15 ePn	29	53.00	4.4X
	S.D. = 0.8	on 4 of 5 obs.			

% JAN 21, 1991 00h 30m 23.99± 0.75s
38.172 N ± 6.9km 23.229 E ± 7.7km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 2.5 (ATH).

ATH	0.43	117 ePb	30	33.00	0.2
NEO	1.13	360 ePn	30	45.00	-0.2
EVR	1.34	304 ePn	30	49.00	0.3
ITM	1.43	227 ePn	30	50.00	0.0
VLI	1.47	189 ePn	30	50.30	-0.2
	S.D. = 0.3	on 5 of 5 obs.			

? JAN 21, 1991 01h 46m 15.55± 3.78s
9.131 S ±44.5km 124.370 E ±17.5km
DEPTH = 191.5 ± 16.8 km
4.6mb (3 obs.)
TIMOR (289)

KUPT	1.26	217 eP	46	47.00	0.3
		e(S)	47	15.50	
MTN	7.59	120 iPc	48	03.90	-0.6
	0.3s	91.00nm			5.5mb X
		eS	49	32.00	
KNA	7.85	147 eP	48	08.50	0.5
		eS	49	42.00	
MBL	12.73	200 eP	49	10.00	-1.0
	0.3s	3.00nm			4.2mb
		eS	51	33.00	
ASPA	17.09	149 eP	50	04.30	-0.5
	0.4s	10.90nm			4.6mb
		eS	53	12.80	
WARB	17.10	173 eP	50	06.00	1.1
OIS	18.58	129 iPd	50	21.00	0.3
	0.6s	26.00nm			4.9mb
	S.D. = 1.1	on 7 of 7 obs.			

JAN 21, 1991 01h 50m 51.47± 0.77s
23.616 N ± 5.9km 121.391 E ± 9.2km
DEPTH = 9.7 ± 3.9 km
4.4mb (6 obs.)
TAIWAN (244)

TWF1	0.28	198 iPc	50	57.70	0.4
		eS	01	01.90	
TWD	0.50	22 iPc	51	00.90	-0.7
		eS	51	08.10	
TWQ	0.83	322 eP	51	06.80	-0.7
		eS	51	17.90	
TWG	0.84	200 iPc	51	07.90	0.1
TWC	1.07	23 ePd	51	11.80	0.1
ANP	1.57	4 iP	51	21.00	1.5
		eS	51	43.00	
OZH	2.88	298 Pnd	51	36.90	-1.3
		Sn	52	09.00	
CVP	5.90	176 eP	52	24.00	3.0X
GZH	7.41	268 eP	52	40.50	-1.9
E	10s	0.80um			
SSE	7.45	359 P	52	41.70	-1.2
Z	12s	1.08um			
N	11s	0.97um			
		eS	54	06.00	
NJ2	8.70	346 Pd	52	59.50	-0.8
		S	54	32.30	
WHN	9.32	319 eP	53	06.20	-2.7X
N	10s	1.20um			
		eS	54	48.00	
TIA	13.08	345 eP	54	06.30	6.3X
N	11s	0.90um			
GYA	13.65	285 P	54	07.80	0.1
Z	12s	1.10um			
XAN	15.06	316 eP	54	32.00	5.9X
TIY	16.01	333 eP	54	41.80	3.4X
N	12s	0.90um			
E	12s	0.90um			
BJI	16.96	346 eP	54	54.00	3.7X
	1.2s	24.00nm			4.2mb
KMI	17.06	279 eP	54	58.00	6.0X
Z	10s	1.00um			
CD2	17.27	299 eP	54	55.20	0.8
HHC	19.06	337 P	55	18.80	2.2
BTO	19.45	333 eP	55	21.00	-0.3
N	12s	0.50um			
E	12s	1.00um			
LZH	19.61	313 Pd	55	24.50	1.3
	1.6s	53.00nm			4.6mb
		pP	55	32.50	31kmX
CHG	21.46	261 eP	55	45.20	2.9X
	1.1s	31.65nm			4.6mb
GTA	24.12	316 eP	56	09.40	0.9
	1.6s	30.00nm			4.6mb
		pP	56	16.20	24kmX
GUN	32.20	285 P	57	23.58	1.2
PKI	32.62	285 P	57	25.26	-0.8
KKN	32.73	285 P	57	27.62	0.8
DMN	32.89	285 P	57	27.06	-1.2
GKN	33.29	285 P	57	32.24	0.5
WMO	34.18	314 P	57	40.60	1.4
NAO	79.08	332 P	02	55.30	-2.0
	1.0s	3.40nm			4.3mb
YKA	83.42	23 eP	03	19.30	-0.8
	1.0s	1.70nm			4.2mb
	S.D. = 1.2	on 24 of 32 obs.			

& JAN 21, 1991 02h 47m 27.80s
35.767 N 120.333 W
DEPTH = 6.0km (geophysicist)
CENTRAL CALIFORNIA (39)
<PAS-P>. MI 2.7 (PAS).

PHAM	0.09	322 iPc	47	29.50	-0.4
PKEM	0.35	32 eP	47	35.20	0.4
BCH	0.62	161 iPd	47	39.10	-1.0
ABL	1.29	135 eP	47	49.30	-2.9
	4 obs. ossociated				

JAN 21, 1991 02h 50m 24.06± 0.50s
36.659 N ± 5.4km 26.292 E ± 5.9km
DEPTH = 33.0km (normal)
4.0mb (3 obs.)
DODECANESE ISLANDS (369)
ML 4.1 (ATH).

SMG	1.13	22 ePn	50	44.00	0.4
KAP	1.32	147 ePn	50	45.80	-0.5
NPS	1.50	202 ePn	50	48.00	-0.9
ARG	1.54	106 ePb	50	50.00	0.4
YER	1.67	73 iPn	50	54.90	3.5X
IZM	1.90	24 ePn	50	55.10	0.3
VAM	2.11	234 ePb	51	00.80	3.1X
ATH	2.44	303 ePb	51	11.50	9.1X
PRK	2.58	360 ePn	51	05.00	0.6
VLI	2.70	272 ePn	51	06.20	0.2
ELL	2.91	87 ePn	51	21.00	11.8X
KHL	3.06	56 ePn	51	19.00	7.7X
EZN	3.16	0 iPn	51	11.60	-1.0
DST	3.47	31 ePn	51	17.00	-0.1
BCK	3.53	76 eP	51	27.00	9.0X
ITM	3.54	280 ePn	51	20.00	2.0
NEO	3.59	318 ePn	51	19.50	0.8
SMF	19.46	308 eP	54	49.60	-1.2
	0.7s	3.30nm			3.7mb
LBF	19.51	309 eP	54	51.60	0.2
AVF	19.82	308 eP	54	53.00	-1.7
SSF	19.83	309 eP	54	54.10	-0.7
	0.9s	5.75nm			3.9mb
BCAO	32.85	194 iPc	56	58.10	1.1
	0.6s	6.00nm			4.7mb
	S.D. = 1.0	on 16 of 22 obs.			

% JAN 21, 1991 03h 24m 43.87± 3.27s
3.860 N ±13.6km 77.021 W ±27.6km
DEPTH = 33.0km (normal)
NEAR WEST COAST OF COLOMBIA (102)
MD 2.9 (UVC).

ANCC	0.38	156 iPd	24	52.75	0.0
		eS	24	59.00	
CLMC	0.46	87 iPc	24	54.26	0.2
		eS	25	01.60	
HOOC	0.55	135 iPd	24	55.05	-0.4
		eS	25	03.00	
BUGC	0.76	88 iPc	24	58.33	0.0
SALC	0.94	160 eP	25	01.04	0.2
		eS	25	13.50	
DIAC	1.00	124 eP	25	01.70	0.0
		eS	25	14.60	
HOBC	1.01	61 iPd	25	01.73	-0.2
	S.D. = 0.3	on 7 of 7 obs.			

% JAN 21, 1991 03h 50m 28.56± 0.97s
43.834 N ±10.2km 11.942 E ± 9.0km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

SFI	0.11	323 Pc	50	31.40	0.0
		eSg	50	33.80	
CRE	0.21	178 Pc	50	32.50	-0.6
		eSg	50	36.00	
ARV	0.80	114 P	50	43.50	-0.6
		eSg	50	56.30	
ASS	0.93	145 P	50	47.40	1.1
		eSg	51	00.70	
PII	1.03	264 Pc	50	48.10	0.0
		eSg	51	02.00	
	S.D. = 1.0	on 5 of 5 obs.			

JAN 21, 1991 04h 04m 00.72± 1.16s
51.588 N ± 8.1km 16.108 E ± 9.6km
DEPTH = 10.0km (geophysicist)
3.3mb (1 obs.)
POLAND (548)
ML 3.7 (GRF).

KSP	0.76	171	iPd	04	14.50	-1.0
	0.7s	115.00nm				
			i	04	20.40	
			iS	04	24.10	
PRU	1.89	212	iPn	04	33.20	0.0
	0.6s	42.70nm				
			Pg	04	35.00	
			e	04	38.00	
			Sn	04	52.20	
			Sg	05	00.50	
			e	05	05.50	
CLL	1.96	263	iPn	04	34.50	0.1
			iPg	04	38.10	
			iSg	05	04.00	
KRA	2.87	121	eP	04	56.00	8.6X
			eS	05	31.20	
KHC	2.95	214	iPn	04	48.10	-0.3
			Pg	04	54.50	
			eSn	05	16.50	
			Sg	05	37.00	
HOF	2.96	246	iPnc	04	48.50	-0.2
MOX	2.98	253	ePg	04	57.50	8.6X
			iSg	05	37.00	
WET	3.20	221	iPnc	04	52.10	0.0
VKA	3.33	178	ePn	04	54.50	0.6
			i	05	02.90	
			iSn	05	46.60	
			i	06	49.90	
ZST	3.46	169	e(Pn)	05	04.60	9.0X
			e	05	49.30	
			e	05	54.90	
SPC	3.57	131	eP	05	08.00	10.5X
GRF	3.64	241	ePnc	04	58.60	0.3
			ePg	05	10.50	
			e(Sn)	05	47.10	
KBA	4.86	203	iPnc	05	15.30	-0.5
			iSn	06	23.60	
TNS	5.04	257	ePn	05	17.30	-0.8
			eSn	06	47.00	
SQTA	5.42	218	iPnc	05	23.80	0.2
			iSn	06	48.80	
			i	06	54.50	
FVI	5.46	205	P	05	25.40	1.4
YKA	59.79	336	eP	14	07.90	0.1
	0.4s	0.10nm			3.3mb	

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

? JAN 21, 1991 04h 55m 05.12± 3.59s
18.482 N ±33.9km 66.100 W ±12.3km
DEPTH = 33.0km (normal)
PUERTO RICO REGION (90)

LPR	0.28	128	iP	55	12.80	0.1
SJG	0.37	187	iP	55	14.30	0.4
			S	55	24.80	
CPD	0.47	158	iP	55	15.00	-0.4
PORP	0.66	230	iP	55	17.90	-0.2

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

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* JAN 21, 1991 05h 52m 05.09± 0.55s
55.215 S ±20.1km 129.130 W ±12.8km
DEPTH = 10.0km (geophysicist)
4.9mb (6 obs.) 5.7Msz (11 obs.)
SOUTH PACIFIC CORDILLERA (691)
Mo=3.0*10**18 Nm (PPT).

SBA	31.36	201	(P)	58	33.20	5.8X
SPA	34.97	180	eP	59	00.00	0.9
	1.0s	15.00nm			4.8mb	
	Z 20s	10.36um			5.6Msz	
SAN	45.56	86	eP	00	29.00	2.4
LPA	51.78	98	eP-	01	21.00	6.3X
	Z 20s	4.96um			5.5Msz	
			eS	08	36.00	
DZM	57.61	278	iPc	02	01.00	3.5X
ARE	58.32	72	eP	02	03.00	0.2
NNA	59.19	64	eP	02	13.00	4.4X
	0.8s	8.96nm			4.9mb	
			e	10	16.00	

CNCB	59.97	76	P	02	15.80	1.2
LPB	60.13	75	P	02	16.00	0.5
			PS	10	36.00	
			LR	17	42.00	
ZOBO	60.33	75	P	02	16.00	-1.0
	1.8s	131.31nm			5.8mb	
			LR	18	28.00	
CCH	60.54	78	P	02	20.20	2.1X
BRS	61.31	263	eP	02	22.00	-0.9
			eS	10	51.00	
SIV	64.51	81	P	02	42.40	-1.8
PPD	65.30	93	eP	02	49.10	-0.2
VAO	67.02	97	eP	02	58.50	-1.8
			e	03	08.50	
BAO	72.27	92	e(P)	03	31.00	-1.6
ASPA	74.73	251	eP	03	45.30	-1.5
	1.2s	9.50nm			4.7mb	
	Z 19s	12.50um			6.2Msz	
			eS	12	51.10	
UPA	76.12	51	(P)	04	00.00	5.4X
	Z 20s	4.26um			5.8Msz	
			S	13	48.00	
CRZF	78.73	181	eP	04	24.00	15.4X
			eS	14	24.00	
PDCR	79.83	97	eP	04	14.60	-0.5
SOB1	81.51	94	eP	04	28.60	4.6X
PLM	88.84	10	e(P)	05	08.00	7.7X
ALQ	91.88	18	eP	05	15.30	0.9
	1.0s	8.00nm			5.0mb	
	Z 20s	1.60um			5.5Msz	
FRI	92.20	8	ePc	05	19.20	3.7X
BRK	92.91	5	eP	05	17.30	-1.4
CMB	93.18	7	e(P)	05	28.10	8.0X
			e	06	05.60	
MEO	93.39	25	e(P)	05	26.50	5.4X
TNP	93.49	9	eP	05	21.60	-0.1
	1.0s	2.50nm			4.6mb	
YKA	117.92	8	ePKP	11	09.90	17.9X
	0.9s	0.40nm				
MAT	120.48	291	ePKP	11	08.00	10.3X
	Z 22s	1.48um			5.6Msz	
BCAO	123.07	140	iPKPc	11	07.20	3.9X
	0.7s	9.00nm				
			id	11	15.80	
			id	11	31.10	
INK	123.25	358	ePKP	11	05.00	3.1
FRB	127.50	29	ePKP	11	14.00	3.7X
CHG	128.71	245	ePKP	11	21.00	7.0X
MBC	131.34	3	ePKP	11	21.50	4.2X
	1.0s	4.00nm				
LZH	139.47	264	PKP	11	40.50	6.4X
	Z 30s	2.86um			5.8MszX	
			PP	14	32.50	
			SS	32	36.00	
GUD	141.41	89	ePKP	11	53.20	15.8X
PKI	142.78	236	PKP	11	41.60	1.2
GUN	142.84	237	PKP	11	40.80	0.3
DMN	142.96	236	PKP	11	40.80	0.2
KKN	143.03	236	PKP	11	40.80	0.1
GKN	143.51	236	PKP	11	36.80	-4.6X
EPF	145.52	89	ePKP	11	35.20	-9.8X
	1.2s	56.55nm				
LFF	146.91	87	ePKP	11	39.10	-7.2X
	1.1s	48.85nm				
LPO	147.01	88	ePKP	11	39.30	-7.2X
	1.2s	35.70nm				
MFF	147.37	84	ePKP	11	40.10	-6.9X
	1.1s	26.85nm				
NDI	147.41	226	ePKP	11	56.50	8.8X
DAG	147.50	24	ePKP	11	51.00	4.6X
	0.9s	17.65nm				
RJF	147.57	87	ePKP	11	40.80	-6.6X
	1.0s	16.00nm				
	Z 21s	1.63um			5.8Msz	
LPF	147.65	81	ePKP	11	40.70	-6.7X
	1.1s	34.20nm				
CAF	147.66	88	ePKP	11	41.40	-6.2X
	1.2s	29.75nm				
GRR	147.94	80	ePKP	11	41.30	-6.6X
LSF	148.12	85	ePKP	11	42.00	-6.3X
FLN	148.35	80	ePKP	11	42.70	-5.8X
	1.1s	39.05nm				
	Z 21s	1.90um			5.9Msz	
LDF	148.46	81	ePKP	11	42.80	-5.9X
	1.1s	19.55nm				
TCF	148.53	86	ePKP	11	43.10	-5.9X
	1.1s	14.65nm				

BGF	149.05	86	ePKP	11	44.40	-5.3X
	1.2s	41.65nm				
LMR	149.24	94	ePKP	11	45.40	-4.7X
	1.4s	47.90nm				
FRF	149.46	94	ePKP	11	45.90	-4.5X
	1.2s	35.70nm				
AVF	149.47	86	ePKP	11	45.40	-4.9X
	1.1s	20.75nm				
SMF	149.67	87	ePKP	11	45.90	-4.8X
	1.2s	35.70nm				
SSF	149.71	86	ePKP	11	45.70	-5.0X
EKA	149.87	67	PKP	11	59.00	8.4X
	1.2s	38.20nm				
LBF	149.93	86	ePKP	11	46.40	-4.7X
	1.2s	19.35nm				
LOR	150.02	86	ePKP	11	46.80	-4.4X
	1.1s	26.85nm				
	Z 20s	3.00um			6.1Msz	
SBF	150.10	94	ePKP	11	47.00	-4.5X
	1.1s	41.50nm				
PGF	150.17	97	ePKP	11	47.40	-4.3X
	1.1s	39.05nm				
LPG	150.68	91	ePKP	11	49.40	-3.2X
	1.2s	26.80nm				
LPL	150.68	91	ePKP	11	49.40	-3.1X
	1.0s	16.00nm				
RSL	150.72	90	PKP	11	59.50	7.0X
HAU	151.84	86	ePKP	11	51.00	-2.9X
	1.1s	14.65nm				
BSF	152.00	87	ePKP	11	51.50	-2.8X
	1.0s	20.00nm				
QUE	152.47	211	ePKP	12	05.70	10.1X
CDF	152.58	86	ePKP	11	52.60	-2.4X
ENN	152.95	81	ePKP	12	07.50	12.2X
	1.0s	20.00nm				
SQTA	154.20	91	iPKPd	12	03.07	5.7X
	1.0s	18.00nm				
			i	12	10.90	
			i	12	23.40	
			i	12	37.70	
GRF	155.47	86	ePKP	12	03.80	5.0X
	Z 21s	1.10um			5.7Msz	
MOX	156.13	85	ePKP	12	06.00	6.3X
PTJ	156.17	98	ePKP	12	04.30	4.3X
KHC	156.55	89	PKP	12	03.70	3.4X
	Z 22s	1.40um			5.7Msz	
	N 22s	0.90um				
	E 22s	0.80um				
			e	12	16.00	
CLL	157.21	84	ePKP	12	04.00	3.0X
	1.3s	30.00nm				
PRU	157.51	88	ePKP	12	05.00	3.6X
			e	12	12.50	
			e	12	34.50	
ZST	158.09	95	ePKP	12	15.40	13.2X
KSP	158.89	88	ePKP	12	15.80	12.8X
			e	12	42.00	
MAIO	160.18	201	ePKP	12	17.00	12.0X
SPC	160.39	95	e(PKP)	12	12.00	7.1X
KRA	160.63	93	ePKP	12	18.60	13.8X
			e	12	31.10	
TAB	162.57	168	ePKP	12	22.00	14.6X

S.D. = 1.4 on 21 of 88 obs.

? JAN 21, 1991 06h 17m 09.92± 1.08s
36.939 N ±11.7km 29.540 E ± 8.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.1 (ISK).

ELL	0.35	123	iPg	17	17.50	0.3
			eSg	17	27.00	
BCK	0.99	58	iPn	17	28.00	-0.7
YER	1.02	281	iPn	17	29.00	-0.3
KHL	1.38	359	ePn	17	36.00	0.7

S.D. = 1.1 on 4 of 4 obs.

& JAN 21, 1991 06h 25m 57.69s
61.437 N 148.568 W
DEPTH = 31.5km
SOUTHERN ALASKA (2)
<AEIC>.

KNK	0.06	114	iP	26	02.72	-0.4
			eS	26	06.93	
PLRM	0.31	300	iP	26	04.81	-0.6
			iS	26	10.56	

21d 06h

GHO	0.38	333	iP	26 05.93	-0.5
			eS	26 12.73	
PMS	0.52	248	iP	26 07.82	-0.7
			eS	26 15.50	
PWA	0.66	289	iP	26 10.01	-0.7
			eS	26 19.57	
GLI	0.91	127	iP	26 12.95	-1.3
			eS	26 25.87	
SUA	1.05	272	eP	26 15.81	-0.5
			iS	26 30.10	
VZW	1.05	110	eP	26 15.33	-0.9
			eS	26 30.06	
VLZ	1.12	105	iP	26 16.29	-0.9
			iS	26 31.06	
KNIM	1.17	159	iP	26 16.74	-1.1
			eS	26 32.16	
SLKM	1.23	222	eP	26 18.37	-0.5
			eS	26 33.75	
CUT	1.26	321	iP	26 19.19	0.0
KLU	1.27	86	iP	26 18.56	-0.9
			eS	26 34.60	
TOA	1.32	58	eP	26 20.54	0.4
			eS	26 38.25	
SEW	1.41	198	eP	26 20.87	-0.4
SKT	1.51	292	eP	26 22.87	0.0
			iS	26 43.29	
MTU	1.52	162	eP	26 22.78	-0.2
			eS	26 41.71	
TZL	1.62	66	eP	26 25.13	0.8
HUR	1.63	343	eP	26 25.39	0.9
			eS	26 47.03	
CGLM	1.66	267	iP	26 25.71	0.6
			eS	26 47.87	
SPU	1.70	263	eP	26 25.63	0.0
			eS	26 47.63	
NCG	1.73	270	iP	26 24.54	-1.5
CRP	1.74	266	eP	26 26.66	0.4
SDG	1.80	51	eP	26 27.60	0.6
CKL	1.83	264	eP	26 28.28	0.6
			eS	26 52.06	
BGL	1.85	266	eP	26 27.50	-0.4
RND	1.98	356	eP	26 30.31	0.6
			eS	26 55.31	
RDT	2.06	247	eP	26 30.58	-0.3
PAX	2.12	42	eP	26 32.32	0.6
TRF	2.17	339	eP	26 33.53	1.0
REF	2.23	247	eP	26 33.80	0.5
RDN	2.25	247	eP	26 33.04	-0.5
RSO	2.26	246	eP	26 34.33	0.5
RS2	2.27	246	eP	26 36.37	2.5
GLB	2.29	88	eP	26 34.18	0.2

35 obs. associated

? JAN 21, 1991 06h 28m 56.48± 1.78s
36.776 N ±20.2km 29.354 E ± 8.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ELL	0.45	93	iPg	29 06.00	0.4
			iSg	29 16.50	
YER	0.93	293	ePn	29 14.00	-0.3
BCK	1.20	55	ePn	29 18.00	-0.9
KHL	1.55	5	ePn	29 25.00	0.8

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

% JAN 21, 1991 06h 29m 40.39± 1.18s
3.267 N ± 5.9km 76.799 W ±12.3km
DEPTH = 18.8 ± 14.9 km
COLOMBIA (103)
MD 2.8 (UVC).

ANCC	0.26	345	iPc	29 46.60	0.2
			eS	29 50.80	
HOQC	0.26	40	iPd	29 46.79	0.2
			eS	29 51.10	
SALC	0.31	160	ePc	29 47.31	0.0
DIAC	0.60	88	iPd	29 52.40	0.2
			eS	30 01.10	
CLMC	0.65	21	iPc	29 52.45	-0.7
SILC	0.74	141	eP	29 54.51	-0.1
HOBC	1.27	31	eP	30 03.41	0.2

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

JAN 21, 1991 06h 39m 06.71± 0.79s
40.848 N ± 6.5km 22.787 E ± 6.0km
DEPTH = 10.0km (geophysicist)
GREECE (364)

ML 1.8 (SKO).

THE	0.25	148	ePc	39 12.02	-0.1
			eS	39 15.54	
GRG	0.31	290	iPc	39 13.42	0.2
			eS	39 18.10	
KNT	0.32	15	ePc	39 13.78	0.3
			eS	39 18.38	
SOH	0.43	93	ePc	39 15.58	0.1
			eS	39 21.38	
VAY	0.50	341	iPg	39 16.40	-0.4
			iSg	39 23.00	
SRS	0.67	66	ePc	39 19.90	-0.1
			eS	39 28.70	

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

JAN 21, 1991 07h 36m 57.14± 0.39s
8.439 N ± 6.0km 127.631 E ± 8.5km
DEPTH = 33.0km (normal)
5.1mb (17 obs.) 4.0Msz (2 obs.)
PHILIPPINE ISLANDS REGION (248)

DAV	2.44	237	eP	37 38.30	2.8
MAP	4.06	298	ePc	37 58.00	-0.5
			iS	38 31.00	
QIZ	20.21	303	Pd	41 29.00	-3.2X
E	14s		0.80um		
SSE	23.33	346	P	42 06.00	2.7
	1.4s		56.00nm	4.9mb	
Z	20s		0.92um	4.2Msz	
KNA	24.06	177	eP	42 11.50	1.0
NJ2	24.87	342	eP	42 19.00	0.8
Z	20s		0.30um	3.8Msz	
NST	27.81	288	eP	42 49.50	3.9X
QIS	31.13	158	iPc	43 14.10	-1.0
CD2	31.56	318	eP	43 17.00	-1.9
TIY	32.22	337	P	43 25.00	0.3
ASPA	32.49	169	eP	43 25.40	-1.7
	1.1s		9.70nm	4.6mb	
BJI	33.09	344	eP	43 32.00	-0.1
	1.8s		60.00nm	5.2mb	
SNY	33.45	355	eP	43 35.00	-0.1
	1.2s		30.00nm	5.1mb	
WARB	34.43	182	eP	43 44.00	0.2
	0.4s		7.00nm	4.9mb	
HHC	35.30	339	eP	43 51.60	0.4
BTO	35.66	337	eP	43 54.00	-0.3
MDJ	36.08	2	iPc	43 58.00	0.3
FORR	39.07	179	iPd	44 22.50	-0.3
	0.4s		54.00nm	5.7mb	
GTA	39.64	325	iPd	44 28.00	0.2
	1.6s		30.00nm	4.8mb	
			pP	44 33.60	19kmX
GUN	43.86	302	P	45 02.10	-0.6
	0.9s		120.00nm	5.7mb	
PKI	44.15	301	P	45 04.06	-1.0
	0.8s		35.00nm	5.3mb	
KKN	44.33	301	P	45 05.36	-1.0
	0.9s		42.00nm	5.3mb	
DMN	44.42	301	P	45 06.28	-0.9
	0.9s		57.00nm	5.4mb	
GKN	44.93	301	P	45 10.10	-1.1
	0.7s		43.00nm	5.4mb	
GBA	49.47	281	P	45 46.00	-0.6
WMQ	49.48	322	P	45 47.70	1.2
IMA	77.75	24	eP	48 53.10	0.7
	1.1s		11.00nm	4.8mb	
PMR	79.41	29	eP	49 01.10	-0.2
	1.0s		26.30nm	5.2mb	
RND	79.60	27	eP	49 02.50	0.0
FBA	80.11	26	eP	49 04.70	-0.4
YAH	83.04	30	eP	49 10.50	-10.3X
INK	85.48	22	eP	49 32.00	-0.6
MBC	87.19	13	eP	49 41.50	0.6
	1.0s		21.00nm	5.3mb	
DAG	92.75	353	iPd	50 06.60	-0.3
	0.9s		8.40nm	5.2mb	
YKA	94.87	24	eP	50 16.60	-0.3
	0.9s		1.50nm	4.4mb	
CNCB	162.65	120	PKP	57 01.00	2.8X
ZOBO	162.76	118	ePKP	57 00.00	1.7

S.D. = 1.1 on 33 of 37 obs.

? JAN 21, 1991 07h 56m 57.52± 1.53s
16.390 N ±28.2km 61.232 W ±10.9km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)

ML 1.9 (FDF).

SFG	0.14	166	eP	57 04.00	0.5
DEG	0.18	115	eP	57 03.70	-0.3
			S	57 08.60	
SEG	0.26	273	eP	57 04.79	0.0
			S	57 09.90	
PAG	0.56	230	eP	57 08.90	-0.1
			S	57 18.70	

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

JAN 21, 1991 10h 05m 13.93± 0.26s
28.192 S ± 4.5km 70.727 W ± 7.0km
DEPTH = 54.2km (21 depth phases)
5.0mb (11 obs.)
CENTRAL CHILE (136)

RTRS	2.26	151	iPd	05 53.80	4.3X
RTLL	3.69	148	ePc	06 12.20	2.3
CYA	4.36	94	iPd	06 20.80	1.6
IHA	4.88	189	ePn	06 25.50	-1.1
			iPg	06 35.30	
			i(S)	07 35.50	
SAN	5.24	179	eP	06 31.50	-0.3
			iS	07 37.70	
LCCH	5.32	188	iPc	06 31.00	-1.7
			iS	07 39.00	
PCH	5.41	178	eP	06 35.50	1.3
LNV	5.77	186	iPc	06 37.50	-1.6
			iS	07 43.50	
CCH	11.56	22	P	08 09.10	10.0X
CNCB	11.61	13	eP	07 57.00	-3.0X
			i	09 53.00	
ARE	11.70	356	eP	08 03.00	2.1
			eS	11 04.00	
LPB	11.86	12	P	08 02.00	-1.2
			eLR	12 08.00	
ZOBO	12.11	12	P	08 03.00	-3.7X
	1.1s		28.42nm	5.2mb	
Z	24s		0.58um	4.4Msz	
			i	08 08.00	
			LR	12 08.00	
SIV	15.07	38	P	08 39.00	-6.1X
NNA	17.11	339	eP	09 10.50	-0.4
	0.9s		15.13nm	4.1mb	
VAO	22.03	82	eP	10 04.90	-0.5
			epP	10 23.40	85kmX
BAO	24.46	64	ePc	10 28.00	-1.3
			e	10 47.00	85kmX
PDCR	33.34	69	eP	11 47.30	-1.7
			e	12 07.00	84kmX
			e	13 23.30	
			e	14 29.50	
SOB1	33.83	62	eP	11 54.60	1.3
			e	14 32.80	
JSC	62.93	350	P	15 35.00	-1.8
LHS	63.06	351	P	15 36.00	-1.7
TKL	64.69	348	P	15 46.00	-2.4
			pP	16 02.00	59km
RSCP	64.98	347	P	15 49.00	-1.3
ELC	67.41	344	P	16 04.20	-1.5
			pP	16 19.00	53km
MEO	67.95	335	e(P)	16 08.30	-0.9
TUL	68.00	338	iPc	16 08.30	-1.1
	0.8s		52.70nm	5.6mb	
FVM	68.37	343	P	16 10.50	-1.2
			pP	16 25.50	54km
WVLY	70.68	354	P	16 25.30	-0.5
ALQ	71.29	330	eP	16 30.00	0.1
	1.0s		12.50nm	4.8mb	
			epP	16 45.00	53km
ANMO	71.30	330	P	16 30.00	0.1
	0.9s		34.14nm	5.3mb	
			pP	16 45.00	53km
LIC	71.91	72	P	16 32.78	-0.9
TIC	72.14	72	P	16 34.12	-1.0
KIC	72.22	72	Pc	16 34.80	-0.8
RSNY	72.47	357	P	16 36.50	0.1
	0.8s		18.03nm	5.1mb	
GAC	73.67	357	eP	16 43.50	0.2
	1.0s		7.00nm	4.5mb	
			pP	16 59.00	55km
GLA	73.90	323	eP	17 01.00	15.9X
GOL	74.86	333	P	16 50.80	0.1
	0.9s		8.76nm	4.7mb	
			pP	17 06.00	54km
PLM	75.24	321	P	16 54.50	1.5

TPC	75.36	322	eP	16	54.00	0.5
			e	17	10.00	57km
PEC	75.81	322	P	16	56.80	0.8
RVR	76.00	321	eP	16	58.00	1.0
			e	17	14.00	57km
MWC	76.55	321	eP	17	02.00	1.7
			e	17	17.00	53km
GSC	76.67	323	eP	17	02.00	1.1
			e	17	17.00	53km
SBB	76.77	322	eP	17	02.00	0.6
			e	17	17.00	53km
MSU	76.84	328	P	17	03.00	1.1
			pP	17	18.30	54km
CLC	77.49	323	eP	17	06.00	0.7
			e	17	21.00	53km
ISA	77.85	322	eP	17	09.00	1.7
			e	17	23.00	49km
DAU	77.95	330	P	17	09.00	0.9
			pP	17	24.70	56km
TNP	78.99	324	P	17	14.50	0.7
	0.8s		20.10nm		5.1mb	
			pP	17	30.00	55km
BW06	79.15	332	P	17	14.50	0.0
			pP	17	30.00	55km
PRI	79.40	321	ePc	17	33.00	17.1X
FRI	79.50	322	eP	17	31.60	15.4X
			e	17	34.10	8kmX
LLA	79.90	321	iPc	17	35.30	16.9X
PRS	79.93	321	iPc	17	35.60	17.0X
CMB	80.63	322	ePc	17	38.70	16.4X
MHC	80.81	321	ePc	17	40.50	17.1X
KIM	81.34	118	iPc	17	22.60	-3.9X
BKS	81.52	321	eP	17	44.00	17.1X
	1.0s		57.00nm			
BRK	81.53	321	ePc	17	43.90	17.0X
BLF	82.27	119	eP	17	32.00	0.6
ORV	82.33	323	iPc	17	48.10	17.0X
SCH	82.74	2	eP	17	33.00	0.2
LRM	82.83	332	eP	17	35.00	1.1
			e	17	50.10	53km
WDC	83.62	323	iPc	17	53.00	15.3X
FHC	84.55	322	ePc	17	55.40	13.0X
SES	86.00	335	eP	17	49.00	-0.4
			pP	18	05.00	56km
FFC	86.85	342	eP	17	53.00	-0.4
	0.8s		6.00nm		4.9mb	
LON	87.70	328	P	17	58.00	0.2
			pP	18	13.70	54km
PNT	88.60	330	eP	18	18.00	16.1X
	0.8s		6.00nm			
EDM	89.14	336	eP	18	04.00	-0.5
BCAO	91.42	86	iPd	18	17.00	1.1
	0.8s		25.00nm		5.7mb	
			id	18	44.40	103kmX
FRB	91.64	1	eP	18	24.00	8.4X
ASPA	123.24	207	ePKP	24	04.80	-1.9
	1.1s		6.70nm			
WRA	126.36	210	PKP	24	12.00	-0.9
	0.9s		8.50nm			
KOD	145.22	115	ePKP	24	48.50	0.3
POO	146.19	99	iPKPd	24	49.00	-0.4
GBA	147.03	110	PKP	24	52.00	1.3
HYB	149.80	104	ePKP	25	00.00	5.0X
	1.0s		40.00nm			
NDI	151.85	81	ePKP	25	05.50	7.7X
MAT	154.25	296	ePKP	25	09.00	8.0X
	0.8s		5.22nm			
GKN	158.27	85	PKP	25	07.00	0.4
KKN	158.81	85	PKP	25	07.80	0.6
PKI	158.90	86	PKP	25	08.40	0.9
GUN	159.35	85	PKP	25	08.60	0.6

S.D. = 1.1 on 61 of 84 obs.

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* JAN 21, 1991 10h 51m 00.39± 1.08s
15.451 N ± 7.6km 121.275 E ±22.1km
DEPTH = 33.0km (normal)
LUZON, PHILIPPINE ISLANDS (249)

BAG	1.17	325	eP	51	20.20	-0.4
			eS	51	38.00	
PGP	1.96	189	ePd	51	32.00	0.0
			iS	51	56.00	
SZP	2.23	339	iPc	51	36.00	0.2
			iS	52	49.00	
CVP	2.30	13	eP	51	36.50	-0.3
			eS	52	18.00	
PIP	2.93	348	iPd	51	46.00	0.4

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

& JAN 21, 1991 11h 32m 36.92s
60.038 N 152.803 W
DEPTH = 105.4km
SOUTHERN ALASKA (2)
<AEIC>.

RSO	0.43	3	iP	32	52.64	-0.6
			iS	33	04.59	
RS2	0.43	3	iP	32	52.65	-0.6
			eS	33	05.07	
REF	0.46	6	iP	32	52.81	-0.6
			eS	33	05.20	
RDN	0.48	2	iP	32	52.88	-0.6
			eS	33	05.33	
NCT	0.53	353	iP	32	53.15	-0.7
			eS	33	05.59	
RDT	0.57	20	iP	32	53.33	-0.8
HOM	0.70	123	iP	32	54.70	-0.3
			eS	33	07.93	
AUE	0.74	203	iP	32	54.49	-0.9
			eS	33	07.30	
PDB	0.74	251	iP	32	54.59	-0.9
			iS	33	08.39	
AUP	0.75	205	iP	32	54.82	-0.8
			eS	33	08.66	
AUH	0.75	206	iP	32	54.86	-0.8
			eS	33	08.60	
NNL	0.76	89	iP	32	55.76	0.2
AUI	0.77	204	eP	32	54.76	-1.0
			eS	33	08.39	
XLV	0.80	136	eP	32	55.03	-1.0
			eS	33	09.37	
CNPM	0.94	122	iP	32	56.74	-0.7
			eS	33	12.34	
BRLK	1.00	105	eP	32	57.20	-0.9
			eS	33	13.79	
NKA	1.05	47	eP	32	59.62	1.1
MCNL	1.16	223	iP	32	58.53	-1.3
			iS	33	15.04	
CKL	1.18	11	iP	32	59.53	-0.7
			eS	33	17.44	
CDD	1.19	201	eP	32	58.77	-1.4
			eS	33	16.65	
SPU	1.21	18	iP	32	59.55	-0.8
			eS	33	17.19	
BGL	1.25	9	iP	33	00.39	-0.5
CRP	1.27	14	eP	33	01.14	-0.2
CGLM	1.33	17	iP	33	01.24	-0.7
SLKM	1.37	69	eP	33	00.77	-1.5
			eS	33	19.65	
NCG	1.41	13	eP	33	02.09	-0.7
SYI	1.45	171	eP	33	01.82	-1.4
			iS	33	21.16	
SEW	1.68	86	eP	33	04.38	-1.7
			eS	33	25.50	
SUA	1.75	34	iP	33	06.50	-0.6
			eS	33	28.99	
PMS	2.00	51	eP	33	09.14	-1.2
			eS	33	32.80	
SKT	2.05	17	eP	33	09.64	-1.2
PWA	2.16	40	eP	33	11.08	-1.2
PLRM	2.38	47	eP	33	12.90	-2.3
PMR	2.38	47	eP	33	12.80	-2.4
KNK	2.54	55	iP	33	14.96	-2.4
KNIM	2.55	81	eP	33	14.62	-2.9
GHO	2.57	46	iP	33	15.67	-2.2
			eS	33	45.33	
MTU	2.59	89	eP	33	16.56	-1.4
CUT	2.67	26	eP	33	17.47	-1.6
GLI	2.95	71	iP	33	21.09	-1.8
VZW	3.25	69	eP	33	25.64	-1.4
TTA	3.28	333	eP	33	25.60	-1.9
HUR	3.32	26	eP	33	26.43	-1.4
VLZ	3.38	68	eP	33	26.78	-1.8
TRF	3.63	18	eP	33	30.54	-1.7
KLU	3.68	64	iP	33	29.95	-2.9
TOA	3.83	54	eP	33	32.90	-2.0
RND	3.87	27	eP	33	33.64	-1.8
TZL	4.11	58	eP	33	36.22	-2.5
SDG	4.30	51	eP	33	39.29	-2.0
BWN	4.43	19	eP	33	41.47	-1.6
PAX	4.58	47	eP	33	42.90	-2.3
GLB	4.63	68	eP	33	43.22	-2.7
NEA	4.88	19	eP	33	46.84	-2.3
TGL	5.00	77	eP	33	49.00	-2.0
BALM	5.26	75	eP	33	52.59	-2.0
MDM	5.37	21	iP	33	53.51	-2.6
FBA	5.40	23	eP	33	53.80	-2.7
YAH	5.53	82	eP	33	57.07	-1.3
CTGM	5.74	76	iP	33	59.70	-1.6
IMA	6.07	357	eP	34	03.80	-1.9

61 obs. associated

& JAN 21, 1991 11h 55m 37.66s
42.470 N 111.496 W
DEPTH = 1.3km
EASTERN IDAHO (457)
<SLC-P>. ML 2.8 (SLC).

PTI	0.76	302	eP	55	53.00	0.2
BW06	1.46	77	eP	56	06.00	0.5
DAU	2.06	175	eP	56	14.00	-0.2
LTMT	2.10	348	ePn	56	16.90	2.2
DUG	2.48	204	eP	56	17.50	-2.5
MCMT	2.55	338	ePn	56	24.30	3.2
HBMT	3.42	347	ePn	56	39.10	5.7
LRM	3.42	349	ePn	56	39.70	6.2
MSU	3.99	188	eP	56	39.30	-2.2
GOL	5.39	119	e(P)	57	00.50	-1.0

10 obs. associated

? JAN 21, 1991 12h 56m 50.77± 2.32s
2.934 N ±36.1km 79.252 W ±15.3km
DEPTH = 10.0km (geophysicist)
3.5mb (1 obs.)
SOUTH OF PANAMA (83)

ANCC	2.45	76	iPc	57	31.39	-0.1
			eS	57	58.40	
SALC	2.55	89	eP	57	32.71	-0.4
HOOC	2.67	78	iPc	57	34.35	-0.5
CLMC	2.84	71	eP	57	37.52	0.3
SILC	2.92	95	eP	57	38.70	0.2
DIAC	3.07	83	iPc	57	40.86	0.5
			eS	58	15.00	
YKA	64.96	343	eP	07	32.70	0.0
	0.8s		0.30nm		3.5mb	

S.D. = 0.4 on 7 of 7 obs.

% JAN 21, 1991 13h 28m 14.63± 0.74s
44.380 N ± 6.3km 7.373 E ± 7.9km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

STV	0.14	194	P	28	18.20	0.2
			S	28	20.97	
ENR	0.16	168	P	28	18.00	-0.3
			S	28	20.66	
PZZ	0.23	303	P	28	19.84	0.2
			S	28	23.74	
ROB	0.37	103	P	28	22.40	0.2
			S	28	27.43	
BHB	0.47	350	P	28	23.94	-0.2
			S	28	30.40	

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

JAN 21, 1991 14h 03m 05.52± 0.47s
37.084 N ± 4.5km 29.511 E ± 4.4km
DEPTH = 15.2 ± 5.2 km
TURKEY (366)
MD 3.9 (ISK), 3.8 (ATH).

ELL	0.46	136	iPg	03	15.00	0.1
BCK	0.94	66	iPn	03	23.50	0.5
KSL	0.97	177	ePn	03	23.60	0.2
YER	0.98	273	iPn	03	23.50	-0.3
KHL	1.24	0	iPn	03	27.40	-0.7
ARG	1.41	233	ePn	03	30.50	-0.1
ALT	2.02	13	ePn	03	41.00	1.5
IZM	2.21	307	iPn	03	43.30	1.1
SMG	2.22	287	ePn	03	42.80	0.6
KAP	2.43	232	ePn	03	45.70	0.5
DST	2.61	345	ePn	03	46.60	-1.3
GKN	46.79	84	P	11	36.00	-0.4
DMN	47.33	85	P	11	41.20	0.4
KKN	47.39	84	P	11	40.60	-0.6
PKI	47.59	85	P	11	43.80	0.8
GUN	47.81	84	P	11	44.60	-0.1

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

JAN 21, 1991 14h 47m 41.91± 0.42s
6.104 S ± 7.5km 142.041 E ± 6.9km

21d 14h

DEPTH = 33.0km (normal)
4.9mb (8 obs.) 4.4Msz (3 obs.)
PAPUA NEW GUINEA (202)

MNDI	1.61	92	iP	48 09.00	0.4
YYYY	3.90	92	eP	48 40.00	-1.2
PMG	6.04	123	eP	49 10.00	-1.3
RAB	10.27	80	e(P)	50 04.00	-6.1X
MTN	12.67	237	eP	50 41.20	-1.5
	0.3s	47.00nm		6.1mb	X
			eS	53 07.00	
QIS	14.56	189	eP	51 08.00	0.4
			eS	55 37.00	
KNA	16.17	233	eP	51 27.50	-0.9
SVO	17.87	101	P	51 51.00	1.2
HNR	18.05	102	eP	51 52.00	0.1
			eS	55 17.00	
KUPT	18.69	256	eP	52 04.00	4.2X
	1.0s	334.50nm		5.5mb	
			eS	56 21.00	
ASPA	19.14	203	eP	52 05.60	0.3
	1.1s	86.30nm		4.9mb	
	Z 19s	6.20um		5.2Msz	
			eS	55 36.90	
RMO	21.26	163	eP	52 29.00	1.3
			e	59 05.00	
BRS	23.50	155	iP	52 54.40	4.5X
			eS	57 12.00	
WARB	24.80	215	eP	53 06.00	3.6X
	0.4s	16.00nm		5.0mb	
CMS	25.50	172	e(P)	53 11.00	2.0
			e	01 31.00	
SSE	42.02	333	eP	55 31.00	-1.0
	1.2s	20.00nm		4.7mb	
	Z 20s	0.46um		4.4Msz	
NJ2	43.91	331	eP	55 52.00	4.7X
CHG	49.16	301	eP	56 37.00	8.0X
KMI	49.24	311	Pc	56 42.00	12.2X
	2.0s	40.00nm			
			sP	57 00.00	
XAN	50.75	324	eP	56 40.20	-0.8
TIY	51.59	330	eP	56 49.20	1.9
	Z 18s	0.50um		4.6Msz	
MDJ	51.72	349	eP	56 50.00	1.9
BJI	51.74	335	eP	56 58.00	9.7X
	2.0s	80.00nm		5.3mb	
	Z 18s	0.35um		4.4Msz	
CN2	51.89	345	eP	56 49.00	-0.4
HHC	54.46	332	eP	57 09.00	0.4
BTO	55.00	330	eP	57 12.00	-0.6
LZH	55.17	322	eP	57 12.00	-2.0
	1.8s	22.00nm		4.9mb	
			pP	57 17.00	16kmX
			sP	57 21.50	
			i	57 48.00	
			i	58 01.00	
GTA	59.76	323	eP	57 45.60	-0.7
	1.6s	20.00nm		5.0mb	
GUN	63.84	305	P	58 16.60	2.4
PKI	64.09	304	P	58 14.98	-0.8
KKN	64.28	305	P	58 17.26	0.3
DMN	64.36	304	P	58 14.14	-3.3X
GKN	64.89	305	P	58 21.18	0.4
GBA	67.05	287	P	58 43.00	8.5X
WMO	69.72	321	P	58 51.20	0.4
QUE	80.29	302	eP	59 53.70	2.0
IMA	85.43	22	eP	00 17.30	0.0
YKA	101.55	27	ePdiff	01 41.50	9.7X
	0.6s	0.30nm		4.1mb	
BCAO	123.74	271	ePKPd	06 41.80	2.7X
	1.0s	10.00nm			
CNCB	142.59	128	PKP	07 14.00	-1.1
LPB	142.65	127	(PKP)	07 10.00	-5.0X
ZOBO	142.78	127	ePKP	07 12.00	-3.4
KIC	146.98	272	PKP	07 26.00	4.2X
LIC	147.26	272	PKP	07 26.62	4.4X
TIC	147.26	273	PKP	07 26.76	4.5X
SIV	148.29	134	PKP	07 28.20	4.3X
PPD	149.13	155	e(PKP)	07 32.00	7.0X

S.D. = 1.4 on 29 of 47 obs.

? JAN 21, 1991 14h 56m 14.64±12.76s
2.891 N ±20.0km 74.797 W ±103.km
DEPTH = 33.0km (normal)
COLOMBIA (103)
MD 3.7 (UVC).

DIAC	1.45	286	iPd	56 38.34	-0.7
			eS	56 57.20	
SILC	1.55	263	eP	56 40.05	-0.6
PURC	1.66	250	eP	56 42.44	0.1
			eS	57 04.30	
BUGC	1.76	304	eP	56 43.78	0.3
			eS	57 06.70	
SALC	1.90	273	eP	56 46.25	0.8
HOOC	1.92	287	eP	56 45.60	-0.3
CLMC	2.02	299	eP	56 46.83	-0.4
ANCC	2.16	287	eP	56 49.72	0.7

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

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* JAN 21, 1991 15h 31m 22.58± 2.12s
13.083 S ± 8.4km 167.279 E ±14.8km
DEPTH = 190.8 ± 16.4 km
4.8mb (15 obs.)
VANUATU ISLANDS (186)

HNR	8.06	296	eP	33 19.00	1.3
			eS	34 55.00	
SVO	8.30	297	P	33 20.00	-0.8
			S	35 03.00	
VSG	8.34	296	eP	33 20.00	-1.3
			eS	35 04.00	
DZM	8.97	185	iPd	33 36.00	6.4X
			iS	35 16.00	
BRS	19.66	221	iP	35 39.60	0.7
RMO	21.91	230	iPc	36 02.20	1.1
	1.0s	147.00nm		5.4mb	
CMS	26.92	224	iPd	36 47.40	-0.5
CNB	27.42	213	iPc	36 52.90	0.4
MNG	28.36	167	eP	37 00.40	-0.4X
ASPA	33.30	247	iPc	37 41.40	-2.9X
	0.8s	25.70nm		4.9mb	
WARB	40.26	245	eP	38 42.00	-0.5
SSE	62.35	316	P	41 26.50	-0.6
	1.0s	20.00nm		4.9mb	
NJ2	64.51	315	eP	41 40.00	-1.2
MDJ	66.84	332	eP	41 56.70	0.9
WHN	66.86	312	eP	41 56.00	-0.2
CN2	68.25	329	P	42 04.80	0.2
GYA	70.80	304	P	42 20.00	-0.6
BJI	71.00	321	eP	42 21.50	0.2
	1.0s	9.00nm		4.5mb	
TIY	72.07	317	eP	42 28.30	0.5
	1.0s	20.00nm		4.8mb	
XAN	72.59	312	P	42 31.20	0.2
KMI	73.46	301	Pd	42 37.00	0.6
	1.5s	40.00nm		4.9mb	
CHTO	74.42	294	iP	42 41.80	0.1
	1.0s	9.50nm		4.5mb	
BTO	75.20	319	eP	42 47.40	1.5
LZH	77.23	312	Pc	42 58.00	0.6
	1.5s	37.00nm		4.9mb	
GTA	81.54	314	eP	43 21.00	0.7
	1.2s	20.00nm		4.7mb	
IMA	84.07	15	eP	43 34.30	1.6
	1.3s	10.50nm		4.4mb	
FBA	84.79	18	eP	43 36.70	0.6
GUN	88.61	299	PKP	43 55.64	-0.3
	0.8s	17.00nm		5.0mb	
PKI	88.92	298	PKP	43 56.88	-0.5
KKN	89.09	299	PKP	43 57.56	-0.4
	0.8s	16.00nm		5.0mb	
DMN	89.19	298	PKP	43 58.60	0.1
GKN	89.70	299	PKP	43 59.80	-0.9
	1.0s	24.00nm		5.1mb	
WMO	91.59	315	P	44 09.60	0.6
GBA	92.86	283	P	44 16.00	0.8
	0.6s	0.00nm		4.0mb	
YKA	96.09	27	eP	44 28.70	-0.4
	0.9s	0.90nm		4.1mb	
KAF	123.67	339	iPKP	49 58.60	0.1
NUR	125.35	338	ePKP	50 02.00	0.3
NAO	129.33	345	PKP	50 10.00	0.6
	0.9s	8.20nm			
LBF	143.41	341	ePKP	50 34.00	-1.9
	0.8s	4.05nm			
GRR	143.45	347	ePKP	50 33.50	-2.3
PDCR	143.49	133	ePKP	50 35.50	-1.4
			e	50 37.20	
SSF	143.49	341	ePKP	50 34.20	-1.8
	0.8s	5.35nm			
LPL	143.70	337	ePKP	50 35.30	-1.4
	0.7s	4.95nm			
LPG	143.71	337	ePKP	50 35.40	-1.4
	0.9s	8.20nm			
AVF	143.78	341	ePKP	50 34.70	-1.8
	0.9s	5.75nm			
LPF	143.82	347	ePKP	50 35.20	-1.3
	0.7s	12.15nm			
8GF	144.15	342	ePKP	50 36.20	-0.9
	0.8s	12.75nm			
SO81	144.32	127	ePKP	50 39.20	0.8
PLDF	144.42	340	PKP	50 37.53	-0.2
MAF	144.53	342	ePKP	50 37.80	0.0
	0.9s	17.20nm			
TCF	144.58	342	ePKP	50 37.70	-0.2
	0.8s	14.10nm			
SSB	144.71	339	PKP	50 38.31	0.1
S8F	144.78	334	ePKP	50 38.00	-0.4
	0.8s	47.00nm			
PYM	144.81	341	PKP	50 38.72	0.3
LSF	144.82	343	ePKP	50 38.20	-0.1
	0.8s	28.90nm			
MFF	144.95	345	ePKP	50 38.80	0.3
	0.8s	44.35nm			
PGF	145.13	331	ePKP	50 39.20	0.1
	1.0s	28.00nm			
LBL	145.20	340	PKP	50 40.48	1.6
FRF	145.36	335	ePKP	50 39.30	0.0
	0.9s	22.95nm			
LRG	145.56	335	ePKP	50 40.00	0.4
LMR	145.60	335	ePKP	50 39.90	0.2
	0.9s	21.30nm			
RJF	145.68	342	ePKP	50 41.30	1.5
	1.2s	29.75nm			
LFF	146.24	343	ePKP	50 43.00	2.3
LPO	146.34	342	ePKP	50 43.30	2.4
	1.0s	20.00nm			
BCAO	147.97	257	iPKPd	50 44.10	-0.3
	0.5s	38.00nm			
			id	50 47.30	
			id	51 38.10	

S.D. = 1.0 on 62 of 65 obs.

& JAN 21, 1991 15h 55m 52.32s
61.286 N 146.826 W
DEPTH = 33.1km
SOUTHERN ALASKA (2)
<AEIC>. ML 3.6 (PMR). Felt (III) at Valdez.

VZW	0.26	150	iP	55 59.29	-0.4
VLZ	0.29	123	iP	55 59.41	-0.5
GLI	0.43	198	iP	56 01.03	-0.9
KLU	0.48	64	iP	56 01.60	-1.2
			iS	56 09.47	
KNK	0.80	280	iP	56 05.86	-1.3
			eS	56 16.60	
TOA	0.88	20	eP	56 07.70	-0.7
TZL	1.01	41	iP	56 09.69	-0.5
KNIM	1.04	206	iP	56 09.69	-0.9
			eS	56 24.14	
GHO	1.12	297	iP	56 10.34	-1.4
			eS	56 25.43	
PLRM	1.15	287	iP	56 10.70	-1.4
			eS	56 26.66	
PMR	1.15	287	iPc	56 10.80	-1.3
PMS	1.32	269	iP	56 13.75	-0.9
MTU	1.36	198	iP	56 14.69	-0.6
SDG	1.39	25	iP	56 14.68	-0.9
			eS	56 32.04	
GLB	1.46	83	iP	56 15.80	-0.9
			iS	56 34.71	
PWA	1.51	285	iP	56 16.29	-1.0
SEW	1.75	229	eP	56 19.54	-1.3
PAX	1.81	20	eP	56 20.76	-1.0
			eS	56 42.95	
SLKM	1.83	246	iP	56 20.94	-1.1
MID	1.88	172	eP	56 22.14	-0.5
SUA	1.89	277	iP	56 21.62	-1.4
			eS	56 46.77	
CUT	1.98	306	iP	56 23.32	-0.8
TGL	2.02	104	eP	56 24.36	-0.4
HUR	2.15	323	eP	56 25.52	-1.0
BALM	2.19	95	iP	56 25.81	-1.4
			iS	56 52.98	
NKA	2.22	258	iP	56 27.60	0.2
RND	2.33	337	eP	56 28.03	-1.1
SKT	2.35	289	iP	56 27.63	-1.8
CGLM	2.50	273	eP	56 29.84	-1.8
BRLK	2.52	235	iP	56 30.23	-1.6

NNL 2.53 242 eP 56 31.41 -0.5
SPU 2.53 270 eP 56 30.04 -2.0
NCG 2.57 275 iP 56 30.81 -1.8
CRP 2.57 272 eP 56 31.61 -1.1
MCK 2.64 339 eP 56 32.78 -0.8
CKL 2.67 270 iP 56 31.82 -2.1
CTGM 2.68 94 eP 56 33.14 -1.1
BGL 2.69 272 eP 56 32.13 -2.1
TMW 2.72 39 eP 56 34.73 0.1
CNPM 2.81 233 eP 56 34.11 -1.8
RDT 2.82 258 iP 56 33.86 -2.2
HOM 2.89 238 eP 56 35.43 -1.6
REF 2.98 257 iP 56 36.32 -2.2
RDN 3.00 258 iP 56 36.30 -2.5
RSO 3.01 257 iP 56 36.86 -2.2
RS2 3.02 257 iP 56 36.88 -2.2
NCT 3.07 259 iP 56 37.35 -2.3
HDA 3.13 359 eP 56 39.34 -1.2
BWN 3.14 338 eP 56 38.77 -1.8
CCB 3.40 353 eP 56 42.42 -1.9
FBA 3.65 354 eP 56 46.00 -1.9
MDM 3.74 351 eP 56 47.27 -1.9
AUE 3.79 242 eP 56 47.78 -1.9
AUP 3.80 242 eP 56 48.27 -1.8
AUH 3.81 243 eP 56 48.31 -1.9
AUI 3.82 242 eP 56 48.36 -1.9
SYI 3.88 229 eP 56 49.46 -1.6
PDB 3.94 251 eP 56 48.69 -3.2
CDD 4.15 238 eP 56 52.67 -2.3
MCNL 4.30 244 eP 56 53.76 -3.2
TTA 4.62 295 eP 56 57.70 -4.0
IMA 5.68 331 eP 57 13.20 -3.5
INK 9.03 33 P 58 03.00 -0.2
0.4s 1.30nm 4.4mb X
63 obs. associated

? JAN 21, 1991 16h 05m 09.41± 2.09s
7.371 N ±16.5km 94.118 E ±16.6km
DEPTH = 71.3 ± 27.6 km
4.6mb (3 obs.)
NICOBAR ISLANDS REGION (704)

BSI 2.20 148 ePd 05 44.00 -0.4
e(S) 06 44.00
SNG 6.45 91 eP 06 44.80 1.0
0.6s 66.67nm 5.3mb X
IPM 7.41 112 ePd 06 56.90 -0.2
e 08 22.00
NNT 7.58 46 eP 06 58.40 -1.1
CHG 12.30 22 eP 08 05.40 1.8
KOD 16.70 281 eP 09 05.00 4.3X
QIZ 19.18 51 P 09 34.00 3.7X
N 13s 0.80um
E 14s 0.90um
KMI 19.48 24 eP 09 38.00 4.3X
Z 12s 0.90um
PKI 21.72 339 P 09 55.44 -1.3
DMN 21.87 338 P 09 58.38 0.3
GUN 21.87 340 P 09 57.12 -1.1
0.9s 43.00nm 4.9mb
KKN 21.97 339 P 09 57.54 -1.5
GKN 22.40 338 P 10 02.54 -0.7
0.4s 8.00nm 4.5mb
CD2 25.10 20 eP 10 30.70 1.6
XAN 29.85 25 P 11 12.50 0.2
N 14s 0.80um
E 14s 0.80um
LZH 29.93 16 eP 11 11.00 -2.1
2.0s 18.00nm 4.4mb
Z 15s 0.48um 4.3MszX
pP 11 38.50 127kmX
QUE 34.13 315 eP 11 52.80 3.0
TIY 34.47 26 eP 11 51.80 -0.8
Z 15s 1.00um 4.7MszX
E 12s 0.70um
BTO 36.00 21 eP 12 06.00 0.4
N 12s 0.40um
E 12s 0.70um
WMO 36.74 352 P 12 12.20 0.5
HHC 36.79 22 eP 12 15.00 2.9
BJI 38.06 28 eP 12 20.00 -2.6
Z 16s 0.46um 4.4MszX
S.D. = 1.7 on 19 of 22 obs.

% JAN 21, 1991 16h 10m 02.08± 0.87s
39.484 N ± 7.5km 3.781 W ±10.4km
DEPTH = 10.0km (geophysicist)

SPAIN (377)
mbLg 2.7 (MDD).

TOL 0.45 333 e(Pg) 10 01.50 -9.7X
iSg 10 17.00
GUD 1.19 346 ePg 10 24.30 -0.1
eSg 10 40.10
EVIA 1.30 130 ePn 10 26.60 0.3
eSn 10 43.90
EBAN 1.32 180 ePn 10 25.70 -0.7
eSn 10 43.00
EPLA 1.86 289 ePn 10 34.30 -0.1
eSn 10 57.50
EHOR 2.02 215 ePn 10 37.20 0.6
eSn 11 01.90
S.D. = 0.7 on 5 of 6 obs.

& JAN 21, 1991 16h 28m 44.30s
36.210 N 120.828 W
DEPTH = 9.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.5 (BRK), 2.7 (PAS).

PRI 0.15 117 iPd 28 47.90 0.2
LLA 0.42 347 iPd 28 52.61 -0.2
PRS 0.45 286 iPc 28 53.02 -0.5
PHAM 0.51 137 iP 28 54.40 -0.2
PKEM 0.60 104 eP 28 56.50 0.1
SAO 0.74 318 iPc 28 57.79 -1.2
BCH 1.19 149 eP 29 05.70 -0.9
FRI 1.19 49 iPc 29 05.07 -1.5
iS 29 20.98
ARN 1.27 334 eP 29 06.80 -1.2
MHC 1.30 330 ePd 29 07.40 -1.2
eS 29 28.00
CMB 1.86 11 ePd 29 15.40 -1.2
eS 29 38.20
11 obs. associated

JAN 21, 1991 16h 53m 22.68± 0.87s
1.120 N ± 4.4km 127.372 E ± 5.9km
DEPTH = 159.0 ± 8.7 km
5.3mb (21 obs.)
HALMAHERA (267)

AAI 4.85 170 ePd 54 36.10 1.1
eS 55 15.50
MAP 9.74 340 eP 55 39.00 -1.2
TSM 9.79 289 ePd 55 42.80 2.0
PPR 12.16 315 ePc 56 23.00 11.2X
KKM 12.16 294 ePc 56 11.00 -0.9
MTN 14.37 165 eP 56 39.00 -1.0
BAG 16.60 337 eP 57 07.00 -0.9
KNA 16.82 175 eP 57 10.00 -0.3
PMG 22.31 118 eP 58 07.00 -0.8
MBL 23.34 198 iPc 58 18.40 0.6
0.6s 47.00nm 5.2mb
QIS 24.65 152 iPc 58 31.00 0.8
QIZ 24.74 317 P 58 30.00 -1.1
0.7s 30.00nm 5.0mb
ASPA 25.44 166 eP 58 37.30 -0.3
0.4s 135.40nm 5.9mb
iS 03 06.80
iS 09 13.80
IPM 26.53 278 ePc 58 47.30 -0.3
0.8s 63.00nm 5.3mb
WARB 27.15 181 eP 58 53.00 -0.1
0.4s 36.00nm 5.4mb
SNG 27.34 283 eP 58 55.10 0.2
NNT 29.67 294 eP 59 16.00 0.3
LOE 29.96 304 iPd 59 17.20 -1.1
WHN 31.77 338 eP 59 35.50 1.7
FORR 31.80 179 iPc 59 33.40 -0.7
0.4s 86.00nm 5.9mb
MRWA 32.07 199 eP 59 36.00 -0.5
GYA 32.12 323 P 59 37.40 0.3
PcP 02 23.00
BDT 32.18 302 eP 59 37.10 -0.5
COOL 32.37 190 eP 59 38.00 -1.2
CHG 32.96 304 ePc 59 45.00 0.6
1.0s 28.25nm 4.9mb
BAL 33.14 197 eP 59 45.00 -0.9
KMI 33.69 317 Pc 59 52.00 1.1
1.5s 40.00nm 4.9mb
KLB 33.79 195 eP 59 51.00 -0.4
VSG 33.82 108 eP 59 52.00 0.1
RMO 34.34 145 eP 59 56.00 -0.1
i 01 21.00
MUN 34.58 197 iPd 59 57.80 -0.3
0.5s 256.00nm 6.2mb
NWAO 35.19 195 eP 00 03.00 -0.3
0.5s 40.00nm 5.4mb
TIA 36.19 346 eP 00 12.30 0.7
CMS 36.86 153 iPc 00 18.10 0.8
0.7s 31.00nm 5.1mb
XAN 37.02 334 iPd 00 19.00 0.3
CD2 37.13 325 P 00 19.60 0.0
BRS 37.43 141 iPd 00 23.80 1.6
i 00 38.10
ADE 37.44 165 iPc 00 23.20 1.0
0.5s 239.44nm 6.2mb
TIY 38.93 341 eP 00 34.00 -0.6
COO 39.22 146 iPc 00 38.40 1.3
0.8s 65.00nm 5.4mb
i 02 08.50
BJI 40.06 347 eP 00 44.00 0.3
0.8s 22.00nm 4.9mb
BFD 40.62 161 iPc 00 50.30 1.9
0.5s 54.00nm 5.4mb
i 02 25.60
SNY 40.67 356 eP 00 55.20 6.5X
LZH 41.07 331 iPd 00 53.80 1.5
1.5s 42.00nm 4.8mb
CNB 41.67 153 eP 00 58.00 0.8
TOO 41.99 158 eP 01 02.00 2.3
HHC 42.06 342 eP 01 03.60 3.3X
MDJ 43.36 2 eP 01 10.50 -0.1
DZM 44.54 124 iPd 01 22.90 2.3
LSA 44.66 313 iPd 01 23.10 1.3
GTA 45.66 330 Pd 01 29.60 0.4
0.9s 10.00nm 4.4mb
PcP 03 05.00
GUN 47.79 308 P 01 46.70 0.3
0.8s 200.00nm 5.9mb
PKI 48.02 307 Pd 01 47.94 -0.2
KKN 48.22 307 Pd 01 49.50 0.0
DMN 48.28 307 Pd 01 50.04 0.0
0.8s 123.00nm 5.6mb
GKN 48.82 307 Pd 01 54.00 -0.1
KOD 50.41 282 eP 02 06.00 -0.6
HYB 50.63 292 iPd 02 07.50 -0.4
0.8s 111.50nm 5.6mb
GBA 50.93 287 P 02 09.00 -1.1
NDI 55.10 305 eP 02 39.00 -1.7
WMQ 55.22 326 P 02 41.60 0.2
POO 55.24 292 iPc 02 39.50 -2.4X
MSZ 58.10 147 P 03 02.10 0.6
THZ 59.26 142 P 03 09.40 -0.4
LTZ 59.45 143 P 03 10.50 -0.5
TCW 59.83 140 P 03 12.40 -1.1
KHZ 60.02 142 P 03 13.90 -0.9
KIW 60.05 140 P 03 14.00 -1.1
MRW 60.11 140 P 03 13.90 -1.5
MQZ 60.21 144 P 03 16.00 -0.1
CAW 60.28 140 P 03 15.30 -1.3
MNG 60.29 139 P 03 15.60 -1.1
WDW 60.31 140 P 03 15.30 -1.5
MTW 60.58 140 P 03 17.30 -1.4
PGZ 60.81 139 P 03 18.70 -1.5
NOZ 61.03 136 P 03 21.50 -0.2
QUE 64.09 303 eP 03 42.20 -0.1
INK 92.34 22 eP 06 15.00 -0.7
MBC 94.34 13 eP 06 25.00 0.2
YKA 101.59 25 ePdiff06 56.40 -1.3
0.5s 0.20nm 4.0mb X
NAO 101.65 333 Pdiff 06 56.50 -1.5
0.8s 2.50nm 4.9mb
KIC 131.63 279 PKP 12 20.20 1.0
TIC 131.86 280 PKP 12 20.10 0.4
LIC 131.92 279 PKP 12 20.80 1.0
NNA 153.67 115 ePKP 13 02.50 5.6X
0.7s 6.85nm
CNCB 158.28 137 PKP 13 05.00 1.6
ZOBO 158.56 135 PKP 13 05.90 2.2
1.0s 7.50nm
i 14 31.00
SIV 163.04 151 PKP 13 08.60 0.9
i 13 59.60
S.D. = 1.0 on 83 of 88 obs.

? JAN 21, 1991 17h 04m 56.05± 8.22s
0.067 S ±24.9km 79.506 W ±65.9km
DEPTH = 33.0km (normal)
ECUADOR (107)

21d 17h

GGP 0.92 97 P+ 05 12.80 -0.3
YANA 0.93 93 P+ 05 13.30 0.0
eS 05 31.30
COTA 1.23 71 eP 05 17.40 -0.2
eS 05 39.00
VC1 1.24 117 iPd 05 18.50 0.9
eS 05 42.50
CAYA 1.53 85 P 05 22.70 0.9
eS 05 47.00
TUNG 1.71 142 eP 05 24.10 -0.2
eS 05 50.00
ANGL 1.99 99 eP 05 27.30 -1.1
S.D. = 0.9 on 7 of 7 obs.

? JAN 21, 1991 17h 27m 15.52± 3.34s
51.276 N ±26.8km 15.908 E ±17.9km
DEPTH = 10.0km (geophysicist)
POLAND (548)

KSP 0.50 151 iP 27 25.30 -0.3
i 27 27.60
iS 27 34.50
BRG 1.30 253 iPg 27 38.50 -1.1
iSg 27 59.20
PRU 1.56 215 Pn 27 43.60 0.3
0.5s 23.80nm
Pg 27 45.40
e 27 49.40
Sn 28 02.20
Sg 28 08.80
e 28 16.50
CLL 1.82 272 iPg 27 47.60 0.5
eSg 28 13.00
KHC 2.62 216 ePn 27 59.00 0.4
Pg 28 05.10
Sn 28 33.50
Sg 28 45.00
HOF 2.73 251 eP 28 09.40 9.2X
MOX 2.79 259 ePg 28 07.00 6.0X
iSg 28 47.00
S.D. = 0.9 on 5 of 7 obs.

JAN 21, 1991 18h 02m 39.43± 0.54s
23.610 N ± 3.9km 121.364 E ± 5.8km
DEPTH = 10.8 ± 3.0 km
4.7mb (16 obs.) 4.3Msz (2 obs.)
TAIWAN (244)

TWF1 0.26 193 iPc 02 45.30 0.2
eS 02 49.30
TWD 0.51 24 iPc 02 48.60 -1.3
eS 02 56.50
TWO 0.82 324 ePc 02 54.80 -0.4
TWG 0.83 199 iPc 02 55.40 0.0
eS 03 09.50
TWK 0.87 247 iPc 02 56.50 0.3
eS 03 09.40
TWC 1.09 24 ePd 02 59.30 -0.5
TWZ 1.49 8 eP 03 06.70 0.5
eS 03 27.50
ANP 1.58 5 iP 03 08.40 1.0
eS 03 29.00
PIP 5.30 188 iPd 04 02.00 1.5
CVP 5.89 176 eP 04 13.00 4.2X
HKC 6.75 260 eP 04 19.00 -2.0
BAG 7.20 186 eP 04 28.80 1.4
GZH 7.39 268 eP 04 28.00 -1.8
Z 14s 4.00um
E 13s 4.13um
SSE 7.46 359 eP 04 28.00 -2.8X
Z 12s 3.61um
E 10s 3.45um
S 05 47.00
NJ2 8.70 346 Pd 04 45.50 -2.6X
Z 12s 0.90um
sP 04 55.00
S 06 18.50
WHN 9.31 319 eP 04 53.50 -3.1X
0.5s 100.00nm 6.4mb X
Z 12s 2.00um 4.3MszX
N 10s 4.60um
E 11s 4.50um
S 06 37.00
QIZ 11.66 249 P 05 32.80 3.9X
N 17s 2.60um
E 16s 1.60um
S 07 36.60

TIA 13.08 345 eP 05 47.90 0.1
E 10s 2.50um
GYA 13.62 285 P 05 54.60 -0.6
Z 10s 3.40um
PPR 13.98 191 ePd 06 08.00 8.2X
XAN 15.05 316 eP 06 12.00 -1.7
E 10s 2.40um
DL2 15.25 1 eP 06 19.00 2.7X
Z 14s 0.90um 4.4MszX
TIY 16.01 333 Pc 06 28.20 2.0
Z 10s 1.40um
E 12s 2.70um
sP 06 37.00
BJI 16.96 346 eP 06 40.00 1.9
1.2s 47.00nm 4.5mb
N 10s 0.80um
KMI 17.04 279 Pc 06 48.00 8.5X
2.0s 50.00nm 4.3mb
Z 10s 4.10um 4.5Msz
pP 06 58.00
S 09 58.00
CD2 17.25 299 eP 06 43.40 1.5
S 09 54.50
SNY 18.26 5 iPc 06 56.00 1.6
6.0s 800.00nm 5.1mb X
Z 14s 1.20um 4.4MszX
E 15s 2.10um
HHC 19.06 337 P 07 06.50 2.2
Z 10s 0.90um
E 10s 3.10um
LOE 19.39 255 eP 07 12.00 3.6X
BTO 19.44 333 eP 07 07.00 -2.0
N 12s 1.50um
E 12s 2.80um
LZH 19.60 313 Pc 07 11.70 0.8
5.0s 360.00nm 4.9mb X
Z 10s 2.70um 4.9MszX
PP 07 31.50
eS 10 50.00
sS 11 00.00
CN2 20.42 9 eP 07 20.40 1.2
Z 14s 1.50um 4.5MszX
N 14s 0.80um
E 14s 0.30um
ePP 07 28.00 28kmX
eS 10 56.00
CHG 21.43 261 iPc 07 32.80 3.0X
1.0s 35.00nm 4.7mb
BDT 21.88 257 eP 07 35.50 1.3
MDJ 22.01 16 eP 07 36.10 0.7
GTA 24.11 316 eP 07 56.00 -0.2
4.0s 330.00nm 5.3mb X
N 10s 0.80um
E 11s 1.10um
pP 08 02.20 22kmX
sP 08 07.60
sS 12 24.00
LSA 27.63 289 P 08 30.60 1.0
S 13 12.50
GUN 32.17 285 P 09 10.20 0.2
PKI 32.60 285 P 09 13.66 0.0
KKN 32.71 285 P 09 13.58 -0.9
0.8s 15.00nm 5.0mb
DMN 32.86 285 P 09 15.94 0.1
GKN 33.27 285 P 09 19.18 -0.1
WMQ 34.17 314 P 09 27.00 0.1
Z 12s 0.80um 4.7MszX
GBA 42.66 265 Pc 10 38.90 1.0
1.1s 6.10nm 4.2mb
WRA 45.10 163 P 11 03.00 5.4X
1.3s 4.00nm 4.2mb
ASPA 48.55 165 eP 11 23.80 -0.9
1.4s 11.10nm 4.7mb
QUE 48.59 290 eP 11 26.40 1.1
MAIO 54.26 299 iPc 12 09.30 1.4
FBA 69.24 27 eP 13 51.00 2.9X
0.8s 4.14nm 4.7mb
SOD 70.25 336 eP 13 51.00 -3.2X
NUR 72.96 329 eP 14 05.00 -5.5X
INK 73.69 22 eP 14 13.50 -1.2
MBC 73.78 13 eP 14 16.00 0.9
NAO 79.08 332 P 14 43.00 -2.1
0.8s 4.50nm 4.5mb
KRA 79.20 320 eP 14 45.40 -0.6
KSP 80.98 322 ePc 14 55.60 0.1
PRU 82.37 321 eP 15 02.50 -0.2
CLL 82.61 323 eP 15 03.00 -0.9

KHC 83.32 321 eP 15 08.20 0.4
YKA 83.43 23 eP 15 06.20 -1.8
0.7s 2.40nm 4.5mb
CDF 87.27 322 eP 15 27.20 -0.3
HAU 88.02 322 eP 15 30.10 -0.9
LPG 89.17 320 eP 15 36.50 -0.4
0.7s 4.40nm 4.8mb
LPL 89.18 320 eP 15 36.60 -0.3
LOR 89.82 323 eP 15 38.70 -0.9
Z 20s 0.13um 4.3Msz
L8F 89.92 323 eP 15 39.20 -0.9
0.9s 7.35nm 4.9mb
SSF 90.14 323 eP 15 40.40 -0.6
SMF 90.19 322 eP 15 40.80 -0.5
1.3s 19.85nm 5.2mb
AVF 90.38 323 eP 15 41.60 -0.5
1.3s 19.85nm 5.2mb
MAF 91.16 323 eP 15 45.40 -0.4
0.9s 5.75nm 4.9mb
CAF 92.21 322 eP 15 50.80 0.1
RJF 92.29 322 eP 15 51.30 0.3
1.1s 17.10nm 5.4mb
Z 22s 0.13um 4.3Msz
S.D. = 1.1 on 58 of 72 obs.

JAN 21, 1991 18h 19m 25.64± 0.63s
23.638 N ± 5.2km 121.409 E ±10.2km
DEPTH = 13.0 ± 5.8 km
3.4mb (1 obs.)
TAIWAN (244)

TWF1 0.30 200 iPc 19 32.10 0.0
eS 19 36.30
TWD 0.47 21 iPc 19 35.20 -0.1
eS 19 41.90
TWO 0.82 321 eP 19 41.30 0.0
TWG 0.87 201 ePc 19 42.20 0.1
TWK 0.92 247 iPc 19 43.20 0.2
eS 19 55.90
TWC 1.05 22 ePc 19 45.30 0.2
eS 20 00.60
SSE 7.43 359 e(P) 21 16.50 0.2
Z 12s 0.50um
eS 22 39.20
Lg 23 25.00
YKA 83.39 23 eP 31 53.50 -0.1
0.4s 0.10nm 3.4mb
S.D. = 0.2 on 8 of 8 obs.

JAN 21, 1991 19h 46m 17.98± 0.99s
39.101 N ± 8.2km 20.548 E ± 9.2km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
MD 2.9 (ATH).

IGT 0.46 339 ePc 46 25.32 -2.1
eS 46 32.84
KEK 0.84 317 ePb 46 35.00 0.8
VLS 0.92 178 ePg 46 36.00 0.4
EVR 1.00 100 ePb 46 35.50 -1.5
AGG 1.39 93 ePd 46 43.00 -0.4
eS 47 05.48
KZN 1.53 38 ePg 46 46.60 1.2
FNA 1.80 20 ePc 46 49.96 0.7
LIT 1.80 56 iPd 46 50.36 1.0
eS 47 14.24
OHR 2.02 5 ePn 46 55.80 3.3X
GRG 2.34 37 ePc 46 59.64 2.6X
S.D. = 1.4 on 8 of 10 obs.

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* JAN 21, 1991 21h 01m 14.57± 1.12s
46.243 N ±24.2km 152.648 E ±17.6km
DEPTH = 33.0km (normal)
5.0mb (5 obs.)
KURIL ISLANDS (221)

KUSJ 6.47 244 P 02 49.80 -0.2
S 03 59.00
ASAJ 7.38 257 eP 03 06.40 3.7X
HOOJ 7.74 243 eP 03 09.40 1.7
eS 04 32.60
MRRJ 9.13 249 eP 03 27.50 0.5
MAT 14.52 233 (P) 04 38.00 -1.5
MDJ 16.26 273 eP 05 04.50 2.6
XAN 35.15 265 P 08 07.00 -0.2
CD2 40.52 265 P 08 52.50 0.4
INK 42.25 32 eP 09 07.00 1.2

LSA 49.98 273 P 10 08.60 0.6
YKA 51.52 36 eP 10 18.80 0.1
0.6s 0.20nm 3.3mb X
CHTO 51.69 257 iP 10 21.00 0.5
0.8s 3.29nm 4.3mb
GUN 54.73 275 P 10 42.60 -0.8
0.4s 11.00nm 5.2mb
KKN 55.21 275 P 10 46.36 -0.5
0.6s 21.00nm 5.4mb
PKI 55.26 275 P 10 46.40 -0.9
DMN 55.45 275 P 10 48.02 -0.5
GKN 55.53 276 P 10 48.28 -0.7
0.6s 31.00nm 5.6mb
LRM 61.76 52 eP 11 33.90 1.6
e 11 44.20
NAO 68.88 341 P 12 15.20 -2.3
0.7s 2.30nm 4.4mb
GBA 70.09 269 P 12 24.00 -1.5
S.D. = 1.3 on 19 of 20 obs.

? JAN 21, 1991 21h 10m 54.66± 0.96s
43.231 N ± 7.9km 12.583 E ± 9.3km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ASS 0.17 160 Pc 10 58.60 0.0
eSg 11 01.50
ARV 0.37 44 Pc 11 02.30 -0.1
eSg 11 08.60
CRE 0.61 311 P 11 06.60 -0.4
eSg 11 16.30
SFI 0.87 323 P 11 11.80 0.4
eSg 11 24.70
S.D. = 0.6 on 4 of 4 obs.

• JAN 21, 1991 21h 11m 07.75± 0.94s
6.991 S ± 6.2km 154.665 E ± 6.7km
DEPTH = 44.0 ± 8.9 km
5.0mb (12 obs.) 4.2Msz (1 obs.)
SOLOMON ISLANDS (193)

RAB 3.73 318 iPd 12 04.50 0.2
0.8s 1194.03nm
iS 12 56.00
VSG 5.48 115 eP 12 35.00 5.9X
eS 13 49.00
SVO 5.53 113 eP 12 30.00 0.2
eS 13 45.00
HNR 5.76 115 eP 12 38.00 5.0X
eS 13 50.00
PMG 7.81 252 eP 13 01.00 -0.7
YYYY 8.67 274 eP 13 14.00 0.2
DZM 18.81 144 iPd 15 27.10 0.5
QIS 19.87 226 iPd 15 38.00 -0.3
RMQ 20.19 196 iPd 15 41.70 0.1
BRS 20.37 185 iP 15 42.10 -1.4
eS 19 30.00
CMS 25.73 198 iPc 16 37.70 1.8
ASPA 25.93 228 eP 16 36.90 -1.0
0.8s 9.20nm 4.4mb
Z 18s 0.60um 4.2Msz
eS 20 25.30
WHN 53.71 316 eP 20 27.00 -0.7
GYA 57.19 308 P 20 54.00 0.8
TIY 59.38 322 eP 21 07.10 -1.1
XAN 59.48 316 P 21 08.00 -0.9
KMI 59.74 304 Pd 21 12.50 1.4
2.0s 34.00nm 5.1mb
Z 15s 0.90um 5.0MszX
CHG 60.60 296 eP 21 17.50 0.7
CHTO 60.60 296 eP 21 16.20 -0.6
1.1s 4.42nm 4.5mb
CD2 61.56 311 Pc 21 22.80 -0.4
0.6s 36.00nm 5.7mb
LZH 64.08 316 eP 21 40.00 0.0
1.5s 34.00nm 5.2mb
GTA 68.51 317 iPd 22 08.80 0.7
0.8s 10.00nm 4.9mb
LSA 71.00 305 P 22 24.80 0.9
GUN 74.84 301 P 22 46.64 0.3
0.7s 32.00nm 5.4mb
PKI 75.14 301 P 22 48.04 0.0
0.8s 17.00nm 5.1mb
KKN 75.31 301 P 22 49.06 0.2
0.7s 20.00nm 5.2mb
DMN 75.41 301 P 22 49.90 0.4
0.7s 38.00nm 5.4mb

GKN 75.92 301 P 22 52.30 0.0
GBA 79.33 285 Pd 23 11.30 0.2
1.2s 6.40nm 4.5mb
QUE 91.50 300 eP 24 11.70 0.1
YKA 96.49 28 eP 24 31.70 -1.7
0.8s 2.30nm 4.7mb
S.D. = 0.8 on 29 of 31 obs.

JAN 21, 1991 21h 18m 22.69± 0.62s
43.441 N ± 4.3km 5.451 E ± 4.6km
DEPTH = 8.5 ± 3.7 km
NEAR SOUTH COAST OF FRANCE (379)
MD 2.9 (STR).

GELF 0.06 197 Pg 18 24.68 -0.1
TREF 0.19 345 Pg 18 26.62 -0.2
PUYF 0.20 63 Pg 18 26.97 -0.1
BERF 0.22 126 Pg 18 27.87 0.5
PRAF 0.42 331 Pg 18 31.60 0.4
VILF 0.45 25 Pg 18 31.53 -0.4
TAVF 0.48 68 Pg 18 32.11 -0.2
CALN 1.09 73 Pg 18 43.69 0.3
MVIF 1.32 69 Pg 18 47.44 0.2
Sg 19 06.62
TOUF 1.42 66 Pn 18 49.18 0.2
Sg 19 09.89
REVF 1.42 77 Pn 18 48.98 0.1
AURF 1.43 71 Pn 18 49.07 0.1
Sg 19 09.02
AUTN 1.54 68 Pn 18 50.56 0.0
Sg 19 12.77
SAOF 1.62 70 Pn 18 51.13 -0.5
DOI 1.68 50 P 18 56.20 3.8X
eSg 19 19.40
BNI 1.84 28 P 19 00.00 5.2X
eSg 19 22.90
CKI 2.27 63 P 19 04.70 3.7X
PGF 2.75 108 Pn 19 06.73 -1.2
S.D. = 0.5 on 15 of 18 obs.

JAN 21, 1991 21h 24m 23.85± 0.74s
41.087 N ± 6.4km 22.489 E ± 6.2km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.7 (SKO).

GRG 0.15 207 iPc 24 26.62 -0.7
eS 24 29.06
VAY 0.24 15 iPg 24 28.40 -0.6
iSg 24 32.00
KNT 0.32 76 ePd 24 30.74 0.3
eS 24 35.82
THE 0.58 141 ePd 24 34.94 -0.7
eS 24 42.58
SOH 0.71 112 ePc 24 38.50 0.7
eS 24 47.22
FNA 0.90 251 ePc 24 41.82 0.8
LIT 0.99 180 ePc 24 42.54 0.0
S.D. = 0.8 on 7 of 7 obs.

JAN 21, 1991 21h 31m 34.65± 1.32s
34.661 N ± 9.0km 141.641 E ± 6.8km
DEPTH = 42.5 ± 9.8 km
4.7mb (17 obs.) 4.5Msz (5 obs.)
OFF EAST COAST OF HONSHU, JAPAN (229)

KAKJ 1.95 323 P 32 05.20 -0.7
CHJJ 2.57 303 P 32 14.80 0.1
IIDJ 3.17 286 iPd 32 24.20 0.9
S 33 03.70
NIIJ 3.35 321 P 32 25.30 -0.5
MAT 3.37 305 iPd 32 26.10 0.0
(S) 33 05.00
MTMJ 3.67 303 P 32 30.70 0.2
YAMJ 3.74 340 P 32 29.30 -2.0
OFUJ 4.41 0 P 32 36.90 -4.0X
eS 33 27.40
WKYJ 5.02 267 P 32 50.30 0.9
AOMJ 5.97 351 eP 33 01.60 -1.2
TKSJ 6.32 266 P 33 08.90 1.2
YONJ 6.74 277 eP 33 14.10 0.5
CN2 15.49 311 eP 35 12.50 0.8
Z 13s 2.70um
N 13s 1.50um
E 13s 0.30um
ePP 35 18.00
eS 38 10.00

SNY 15.88 302 eP 35 18.60 2.0
1.4s 30.00nm 4.2mb
Z 16s 2.00um 4.3Msz
N 12s 1.20um
BJI 20.91 292 eP 36 23.50 7.7X
1.1s 12.00nm 4.2mb
Z 12s 1.20um 4.5MszX
N 13s 0.73um
E 11s 0.65um
WHN 23.32 268 eP 36 39.50 -0.3
N 14s 1.90um
pP 36 50.00 40kmX
TIY 23.73 286 eP 36 44.50 0.8
Z 18s 1.80um 4.6Msz
N 16s 2.20um
eS 40 58.00
HHC 24.50 294 eP 36 52.20 1.0
Z 18s 1.20um 4.4Msz
BTO 25.65 293 eP 37 03.00 0.9
N 15s 1.50um
E 15s 1.30um
eS 41 26.50
XAN 26.96 278 P 37 12.60 -1.5
LZH 30.73 284 eP 37 54.50 6.4X
1.5s 20.00nm 4.7mb
Z 18s 1.69um 4.7Msz
N 12s 0.68um
i 38 12.00
i 38 27.50
i 45 00.00
GYA 31.09 264 P 37 48.80 -2.5X
Z 18s 0.70um 4.4Msz
N 16s 0.70um
E 16s 1.30um
CD2 31.94 274 eP 37 57.40 -1.3
GTA 33.50 291 Pd 38 11.80 -0.5
1.2s 10.00nm 4.6mb
N 15s 1.10um
E 14s 0.60um
sP 38 21.40
CHG 40.95 259 eP 39 14.00 -0.9
WMO 42.12 299 eP 39 25.50 1.2
Z 13s 0.30um 4.4MszX
pP 39 35.00 32kmX
eS 45 45.50
LSA 42.66 278 P 39 29.60 0.2
GUN 47.62 278 P 40 08.50 -0.4
1.0s 80.00nm 5.7mb
PKI 48.13 278 P 40 12.10 -0.8
1.0s 29.00nm 5.3mb
KKN 48.16 278 P 40 12.44 -0.5
1.0s 43.00nm 5.4mb
DMN 48.37 278 P 40 13.98 -0.6
1.1s 34.00nm 5.3mb
GKN 48.60 279 P 40 15.76 -0.5
1.1s 87.00nm 5.7mb
NDI 54.34 283 eP 41 01.00 1.7
WRA 54.74 188 P 41 00.00 -2.2
1.0s 6.50nm 4.6mb
INK 56.42 26 eP 41 13.50 -0.3
pP 41 25.00 39kmX
HYB 58.36 270 eP 41 27.50 -0.7
ASPA 58.47 188 eP 41 28.20 -0.5
GBA 61.24 267 P 41 47.00 -1.0
POO 61.67 274 eP 41 45.50 -5.5X
QUE 61.86 289 eP 41 51.80 -0.4
YKA 65.77 30 eP 42 15.50 -1.5
0.8s 1.40nm 4.1mb
SOD 67.22 338 eP 42 25.00 -1.3
DAG 68.16 355 iPc 42 31.80 -0.2
0.9s 6.72nm 4.7mb
FHC 71.29 53 e(P) 42 53.30 1.6
NEW 71.71 44 eP 42 54.00 -0.1
1.1s 8.64nm 4.6mb
NUR 72.13 332 eP 42 53.00 -3.3X
WDC 72.35 53 ePd 42 58.60 0.6
CMB 75.10 54 ePd 43 15.00 0.9
FFC 75.60 32 iPc 43 16.50 -0.1
0.7s 13.00nm 5.0mb
LRM 75.72 44 eP 43 18.50 0.8
FRI 76.12 55 ePd 43 20.80 1.0
NAO 76.73 338 P 43 22.30 -0.5
0.8s 4.20nm 4.5mb
TNP 77.17 53 eP 43 26.80 0.9
1.0s 6.25nm 4.6mb
FRB 79.04 13 ePc 43 34.80 -0.6
PV09 82.07 48 eP 43 33.50 -18.8X

21d 21h

KSP	82.22	329	ePc	44	04.00	11.6X
BRG	83.19	330	e(P)	44	12.80	15.3X
CLL	83.24	330	e(P)	44	16.00	18.3X
GOL	83.58	46	eP	44	00.50	0.4
	1.0s		5.50nm			4.6mb
PRU	83.60	329	eP	44	06.50	6.9X
			e	44	18.00	
ZST	83.80	326	eP	44	18.60	18.0X
			e	44	43.20	
KHC	84.66	329	eP	44	03.50	-1.5
GRF	85.22	330	eP	44	10.00	2.3
	Z 18s		0.20um			4.6Msz
ALO	85.98	50	eP	44	12.50	0.4
ZOBO	147.66	63	PKP	51	16.00	1.5
SIV	152.42	53	PKP	51	28.00	7.0X
	S.D. = 1.1		on 53 of 66 obs.			

JAN 21, 1991 21h 34m 06.81± 0.66s
41.103 N ± 5.6km 22.482 E ± 5.3km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.1 (SKO).

GRG	0.16	203	iPc	34	10.22	-0.3
			eS	34	12.90	
VAY	0.23	17	iPg	34	11.40	-0.3
			iSg	34	15.00	
KNT	0.32	79	iPc	34	13.85	0.4
			eS	34	18.74	
THE	0.60	142	ePd	34	18.22	-0.6
			eS	34	26.06	
SOH	0.72	113	ePc	34	21.10	0.1
			eS	34	30.90	
SRS	0.84	89	ePd	34	23.06	0.0
			eS	34	34.74	
FNA	0.90	250	ePd	34	24.26	0.2
LIT	1.00	180	iPc	34	26.18	0.4
	S.D. = 0.4		on 8 of 8 obs.			

JAN 21, 1991 22h 03m 09.88± 0.68s
41.094 N ± 5.7km 22.482 E ± 5.4km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.3 (SKO).

GRG	0.15	204	ePd	03	13.18	-0.3
			eS	03	15.86	
VAY	0.24	16	iPg	03	14.40	-0.5
			iSg	03	18.00	
KNT	0.32	78	ePd	03	16.78	0.2
			eS	03	21.74	
THE	0.59	141	ePd	03	21.18	-0.6
			eS	03	29.22	
SOH	0.71	112	ePc	03	23.82	-0.2
			eS	03	33.82	
SRS	0.84	88	ePd	03	26.78	0.7
			eS	03	37.70	
FNA	0.89	250	iPc	03	27.46	0.4
LIT	0.99	180	ePc	03	28.90	0.2
	S.D. = 0.5		on 8 of 8 obs.			

JAN 21, 1991 22h 09m 43.02± 0.57s
41.089 N ± 4.7km 22.443 E ± 5.2km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.7 (SKO).

GRG	0.14	193	iPc	09	46.25	0.0
			eS	09	48.50	
VAY	0.25	23	iPg	09	47.40	-0.9
			i	09	50.00	
			eSg	09	51.60	
KNT	0.35	78	iPc	09	49.93	-0.3
			eS	09	54.62	
THE	0.60	139	ePd	09	53.90	-1.3
			eS	10	02.22	
SRS	0.87	88	ePc	09	58.62	-1.1
			eS	10	10.34	
KKB	0.91	32	iPgc	10	01.00	0.5
			Sg	10	11.00	
KZN	0.93	213	ePb	10	05.00	4.1X
			eSb	10	17.30	
LIT	0.99	178	ePc	10	02.14	0.4
			eS	10	16.50	
PLG	1.04	133	ePb	10	04.40	1.6
MMB	1.09	62	ePgc	10	04.00	0.5
SKO	1.16	320	iPg	10	04.50	-0.2
			iSg	10	20.00	
OHR	1.24	272	ePn	10	05.80	-0.3
VTS	1.61	21	eP	10	13.00	1.4
			iS	10	33.00	
RZN	1.81	70	P	10	17.00	2.3X
	S.D. = 1.0		on 12 of 14 obs.			

JAN 21, 1991 22h 13m 48.61± 0.74s
23.646 N ± 6.0km 121.338 E ± 7.6km
DEPTH = 10.0km (geophysicist)
4.1mb (3 obs.)
TAIWAN (244)

TWF1	0.29	187	iPc	13	54.80	0.0
			eS	13	58.90	
TWD	0.49	29	iPc	13	59.10	0.5
			eS	14	06.50	
TWQ	0.78	324	eP	14	04.10	0.3
			eS	14	15.20	
TWK	0.87	244	iPc	14	05.30	0.0
TWC	1.07	26	ePc	14	09.40	0.7
ANP	1.54	6	eP	14	19.00	2.8X
			eS	14	39.70	
QZH	2.82	298	ePn	14	33.30	-1.2
GZH	7.37	267	eP	15	40.00	1.2
			eS	17	01.50	
SSE	7.42	359	eP	15	38.00	-1.5
			pP	15	40.50	
			S	17	00.00	
NJ2	8.66	346	Pc	15	57.50	0.7
			S	17	36.00	
WHN	9.27	319	eP	16	02.00	-3.2X
QIZ	11.65	249	eP	16	43.40	5.4X
			eS	18	47.60	
GYA	13.59	285	P	17	04.20	0.2
			S	19	26.00	
TIY	15.96	333	eP	17	40.80	5.9X
HHC	19.02	337	eP	18	17.80	4.7X
CHG	21 41	261	P	18	43.20	4.3X
CHTO	21.41	261	eP	18	42.00	3.1X
	0.9s		8.10nm			4.1mb
GTA	24.07	316	Pd	19	08.40	3.3X
	1.6s		20.00nm			4.5mb
YKA	83.41	23	eP	26	16.30	-0.9
	0.5s		0.30nm			3.8mb
	S.D. = 1.0		on 11 of 19 obs.			

% JAN 21, 1991 22h 26m 58.39± 0.64s
43.828 N ± 6.5km 11.994 E ± 5.5km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)
MD 2.6 (ROM).

SFI	0.14	312	Pc	27	01.60	0.0
			eSg	27	04.10	
CRE	0.20	189	Pc	27	02.30	-0.6
			eSg	27	05.40	
FIR	0.54	265	ePg	27	09.00	-0.2
			iSg	27	15.00	
ARV	0.76	115	P	27	12.60	-0.7
			eSg	27	25.70	
ASS	0.90	147	P	27	16.90	1.2
			eSg	27	28.70	
BDI	1.04	284	P	27	18.60	0.6
			eSg	27	31.30	
PII	1.07	265	Pd	27	18.30	-0.2
			eSg	27	31.50	
FVI	2.82	11	P	27	44.20	-0.1
	S.D. = 0.8		on 8 of 8 obs.			

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* JAN 21, 1991 23h 15m 57.96± 1.91s
36.479 N ±11.6km 71.546 E ± 9.9km
DEPTH = 115.8 ± 23.8 km
4.7mb (8 obs.)
AFGHANISTAN-USSR BORDER REGION (717)

QUE	7.36	213	iPc	17	43.80	-0.6
	0.7s		10.62nm			4.5mb
			e	19	07.80	
NDI	9.12	147	eP	18	10.50	2.3
			eS	19	44.00	
GKN	13.92	124	P	19	10.70	-0.8
	0.5s		108.00nm			5.4mb
WMO	14.35	54	eP	19	17.00	0.2
DMN	14.49	124	P	19	18.76	-0.1
	0.5s		33.00nm			4.8mb
KKN	14.49	123	P	19	18.28	-0.6
	0.5s		27.00nm			4.8mb
PKI	14.72	123	P	19	21.84	0.0
	0.5s		34.00nm			4.9mb
GUN	14.83	121	P	19	22.46	-0.8
	0.4s		26.00nm			4.8mb
HYB	19.97	160	eP	20	27.70	4.3X
GTA	22.45	74	iPc	20	52.90	4.9X
	0.8s		10.00nm			4.2mb
GBA	23.38	165	P	20	57.00	0.0
			S	25	39.00	
NAO	44.83	323	P	24	01.40	-0.3
	0.5s		3.80nm			4.4mb
YKA	81.25	3	eP	28	02.50	0.7
	0.6s		0.30nm			3.3mb X
	S.D. = 1.1		on 11 of 13 obs.			

? JAN 22, 1991 00h 16m 53.34± 2.58s
7.495 S ±21.0km 128.640 E ±17.5km
DEPTH = 155.9 ± 26.6 km
4.8mb (1 obs.)
BANDA SEA (280)

KUPT	5.63	242	ePd	18	17.00	0.9
			eS	19	11.50	
MTN	5.86	155	eP	18	19.00	-0.1
KNA	8.21	179	eP	18	48.90	-1.7
			eS	19	18.00	
OIS	16.77	142	eP	20	42.00	1.4
			eS	23	36.00	
ASPA	16.85	163	eP	20	41.00	-0.6
	0.4s		19.00nm			4.8mb
			eS	23	41.30	
WARB	18.68	186	eP	21	03.00	0.7
GUN	54.27	312	P	26	06.00	-0.1
PKI	54.43	312	P	26	07.00	-0.2
GKN	55.24	312	P	26	12.40	-0.4
	S.D. = 1.2		on 9 of 9 obs.			

& JAN 22, 1991 00h 42m 06.62s
60.002 N 151.537 W
DEPTH = 54.7km
KENAI PENINSULA, ALASKA (14)
<AEIC>.

NNL	0.13	71	iP	42	16.00	2.4
HOM	0.35	189	iP	42	16.43	-0.3
			eS	42	23.76	
BRLK	0.41	126	iP	42	16.79	-0.5
CNPM	0.50	162	iP	42	17.47	-0.9
			eS	42	26.25	
XLV	0.56	190	eP	42	17.60	-1.3
RDT	0.72	323	iP	42	20.31	-0.7
RED	0.75	305	eP	42	20.60	-0.8
NKA	0.76	11	iP	42	23.04	1.6
REF	0.76	311	iP	42	20.97	-0.7
			iS	42	32.16	
RSO	0.76	308	iP	42	21.03	-0.7
			eS	42	32.72	
RS2	0.76	308	iP	42	21.07	-0.7
			iS	42	32.73	
RDN	0.80	311	iP	42	21.27	-0.8
			iS	42	33.14	
SLKM	0.83	52	eP	42	21.76	-0.6
			eS	42	34.00	
NCT	0.89	310	iP	42	22.64	-0.7
			iS	42	35.57	
SEW	1.05	84	eP	42	24.50	-0.8
AUH	1.16	237	eP	42	26.03	-0.9
AUI	1.17	236	eP	42	26.61	-0.3
SPU	1.21	348	iP	42	27.15	-0.4
CKL	1.26	342	iP	42	27.88	-0.5
CRP	1.31	347	eP	42	28.96	0.0
BGL	1.33	342	eP	42	29.13	-0.2
PDB	1.36	262	eP	42	27.95	-1.6
			eS	42	45.34	
SYI	1.46	198	eP	42	29.56	-1.5
SUA	1.52	15	eP	42	31.81	-0.1
CDD	1.52	226	eP	42	30.35	-1.5
PMS	1.58	37	eP	42	32.60	-0.2
MCNL	1.64	241	eP	42	32.43	-1.1
PWA	1.84	25	eP	42	36.46	0.1
KNIM	1.93	78	eP	42	35.24	-2.4
PLRM	1.98	35	eP	42	37.46	-0.9
SKT	1.99	0	eP	42	38.43	0.0
KNK	2.07	46	iP	42	38.65	-1.0
GHO	2.19	35	eP	42	40.20	-1.1
GLI	2.37	66	eP	42	39.71	-4.1

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CUT      2.49  14 eP     42 44.80  -0.6
VLZ      2.81  64 eP     42 47.40  -2.6
KLU      3.14  59 iP     42 52.84  -2.0
       37 obs. ossociated
-------------------------------------
%  JAN 22, 1991  00h 44m 07.83± 0.83s
   19.927 S ± 8.5km  133.882 E ± 9.1km
    DEPTH =   5.0km  (geophysicist)
 NORTHERN TERRITORY, AUSTRALIA    (591)
      ML 3.6 (OIS).

ASPA     3.72 180 iPc    45 11.70   4.5X
       0.4s   148.20nm
                eS     45 54.30
OIS      5.41  98 iPc    45 31.70   0.5
                iS     46 31.40
                i      46 54.80
KNA      6.40 310 eP     45 46.00   0.8
                eS     46 59.00
MTN      7.52 339 eP     46 00.00  -0.8
       0.3s    26.00nm          5.9mb X
                eS     47 24.00
WARB     9.12 226 eP     46 24.60   1.5
       0.3s     9.00nm          5.6mb X
                eS     48 05.00
FORR    12.06 204 eP     47 02.50  -0.8
       0.4s    39.00nm          6.1mb X
                eS     49 14.00
MBL     13.22 262 eP     47 19.00   0.1
       0.3s     3.00nm          4.9mb
                eS     49 32.00
COOL    15.84 224 eP     47 50.00  -3.3X
                eS     50 40.00
NWAO    19.71 226 eP     48 40.00  -1.2
       0.4s     3.00nm          3.9mb
MUN     19.88 229 eP     48 43.00   0.0
     S.D. = 1.1  on   8 of  10 obs.
-------------------------------------
%  JAN 22, 1991  01h 02m 03.28± 1.79s
   3.761 N ±10.2km   76.875 W ±18.2km
    DEPTH =  33.0km  (normal)
 COLOMBIA                         (103)
      MD 2.4 (UVC).

ANCC     0.24 178 eP     02 10.53   0.1
CLMC     0.33  69 eP     02 12.05   0.4
                eS     02 18.20
HOQC     0.38 140 iPd    02 12.19  -0.2
BUGC     0.63  78 eP     02 16.09   0.2
                eS     02 25.30
SALC     0.80 167 eP     02 18.31   0.0
                eS     02 29.20
DIAC     0.82 125 eP     02 18.50  -0.1
HOBC     0.94  51 eP     02 19.88  -0.5
     S.D. = 0.3  on   7 of   7 obs.
-------------------------------------
   JAN 22, 1991  01h 32m 05.81± 0.50s
   47.567 N ± 5.0km    7.509 E ± 4.3km
    DEPTH =  10.0km  (geophysicist)
 SWITZERLAND                      (544)
      ML 2.3 (LDG).

FEL      0.46  48 ePg    32 15.02  -0.2
BSF      0.55 299 Pg     32 16.50  -0.6
                Sg     32 24.80
ZLA      0.60  98 ePc    32 17.60  -0.4
SLE      0.69  73 ePc    32 18.90  -0.7
CDF      0.86 350 Pg     32 23.40   1.0
                Sg     32 36.50
HAU      0.90 300 Pg     32 23.00   0.0
                Sg     32 35.30
                Sn     32 37.20
LLS      1.23 124 ePd    32 29.10   0.3
SAX      1.29 104 ePd    32 30.50   0.6
MMK      1.55 168 ePc    32 33.70   0.0
EMS      1.55 195 ePd    32 33.70   0.1
LPL      2.12 195 Pg     32 44.60   2.6X
                Sg     33 12.10
LBF      2.47 258 Pg     32 51.00   4.2X
                Sg     33 22.40
LOR      2.50 264 Pg     32 51.70   4.6X
                Sg     33 23.30
SMF      2.67 251 Pg     32 54.20   4.6X
                Sg     33 28.80
     S.D. = 0.6  on  10 of  14 obs.
-------------------------------------
?  JAN 22, 1991  01h 57m 55.23± 2.03s
   5.558 S ±22.7km  127.810 E ±24.3km
    DEPTH = 407.2 ± 26.5 km
    4.7mb (  2 obs.)
 BANDA SEA                        (280)

AAI      1.90  12 ePd    58 51.50  -0.1
                eS     59 34.50
KUPT     6.18 222 ePc    59 31.00   0.3
                eS     00 39.00
MTN      7.95 156 iPc    59 51.20   0.6
       0.3s    65.00nm          5.3mb X
                eS     01 17.00
KNA     10.17 175 eP     00 15.30  -1.0
WRA     15.65 157 P      01 22.00   5.6X
       0.3s     7.10nm          4.6mb
ASPA    18.94 163 iPd    01 49.50   0.1
       0.4s    15.70nm          4.8mb
                iS     05 03.20
YKA    107.41  26 ePKP   15 31.10  -4.1X
       0.4s     0.10nm
     S.D. = 1.2  on   5 of   7 obs.
-------------------------------------
%  JAN 22, 1991  02h 13m 44.68± 0.92s
   46.971 N ± 9.0km    1.455 E ± 6.0km
    DEPTH =  10.0km  (geophysicist)
 FRANCE                           (538)
      ML 1.9 (LDG).

LSF      0.72 176 Pg     13 59.30   0.4
                Sn     14 12.10
TCF      0.86 142 Pg     14 01.70   0.5
                Sg     14 12.60
BGF      1.04 113 Pg     14 03.20  -1.2
                Sg     14 17.20
MAF      1.07 134 Pg     14 04.40  -0.5
                Sg     14 19.50
MFF      1.16 252 Pg     14 06.00  -0.4
                Sg     14 20.60
AVF      1.31  97 Pg     14 08.30  -0.7
                Sg     14 25.60
SSF      1.41  86 Pg     14 10.10  -0.2
                Sg     14 28.20
LOR      1.67  79 Pg     14 14.40   0.3
                Sg     14 35.90
SMF      1.67 100 Pg     14 15.00   0.9
                Sg     14 36.00
LBF      1.73  89 Pg     14 15.50   0.5
                Sg     14 37.30
     S.D. = 0.7  on  10 of  10 obs.
-------------------------------------
?  JAN 22, 1991  02h 36m 53.53± 1.06s
   43.816 N ±10.1km   11.927 E ±14.2km
    DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                    (381)

SFI      0.12 333 Pc     36 56.50   0.0
                eSg    36 59.00
CRE      0.19 175 Pc     36 57.50  -0.3
                eSg    37 00.10
ARV      0.80 113 P      37 08.80  -0.3
                eSg    37 20.50
ASS      0.92 144 P      37 11.70   0.6
                eSg    37 23.60
     S.D. = 0.7  on   4 of   4 obs.
-------------------------------------
   JAN 22, 1991  02h 41m 05.56± 0.35s
   53.621 N ± 8.8km  169.736 E ± 4.2km
    DEPTH =  33.0km  (normal)
    4.7mb ( 21 obs.)
 KOMANDORSKY ISLANDS REGION       (  4)

SMY      2.78 107 eP     41 48.60   0.0
ADK      8.42  96 e(P)   43 10.30   2.2
TTA     20.03  49 eP     45 38.50   0.3
IMA     21.80  41 eP     45 56.70   0.4
       1.2s    18.70nm          4.4mb
SLKM    22.54  56 P      46 02.50  -1.0
RND     23.32  49 P      46 10.30  -0.9
FBA     23.95  45 eP     46 17.80   0.6
TOA     24.49  52 eP     46 23.10   0.6
INK     29.88  39 ePc    47 11.80   0.1
CN2     30.37 269 eP     47 15.60  -0.7
MBC     34.26  24 ePc    47 50.10   0.2
       0.9s    10.00nm          4.7mb
YKA     38.75  46 eP     48 27.80  -0.1
       0.7s     3.00nm          4.2mb
PNT     42.56  66 eP     49 00.00   0.5
       0.7s     5.00nm          4.4mb
NEW     44.52  66 P      49 15.00  -0.5
       0.9s     8.77nm          4.6mb
LZH     48.08 276 Pc     49 45.00   1.1
       1.0s    20.00nm          5.1mb
                pP     49 55.00  34kmX
GTA     48.22 283 eP     49 45.40   0.5
       1.0s    10.00nm          4.8mb
LRM     48.54  66 eP     49 47.10  -0.3
DAG     49.77   3 iPc    49 56.70   0.6
       0.6s     4.00nm          4.6mb
TNP     50.92  77 P      50 05.00  -0.6
       0.7s     5.00nm          4.6mb
CD2     51.76 272 eP     50 12.00   0.1
BW06    52.10  67 P      50 14.30  -0.3
       0.9s     8.47nm          4.7mb
FRB     54.54  28 eP     50 31.00  -1.0
PV09    55.25  71 P      50 36.90  -1.0
GOL     56.50  67 P      50 47.70   0.8
       0.9s     8.52nm          4.8mb
GLD     56.55  67 P      50 48.00   0.9
ANMO    59.28  72 P      51 04.00  -2.4
       0.8s     4.66nm          4.7mb
ALQ     59.29  72 eP     51 06.10  -0.3
       0.9s     5.67nm          4.7mb
KAF     61.06 341 eP     51 17.00  -0.9
SCH     62.30  33 eP     51 26.00  -0.4
NUR     62.85 341 eP     51 30.00   0.2
CHG     63.70 266 eP     51 36.50   0.5
GUN     64.51 283 P      51 41.52  -0.1
       0.8s    31.00nm          5.4mb
NAO     64.67 349 P      51 41.80   0.0
       0.7s     5.70nm          4.8mb
KKN     64.94 283 P      51 44.22  -0.1
       0.9s    17.00nm          5.2mb
PKI     65.04 283 P      51 44.66  -0.3
GKN     65.16 284 P      51 45.22  -0.3
       0.8s    14.00nm          5.1mb
DMN     65.18 283 P      51 45.82   0.0
       0.5s     6.00nm          4.9mb
EKA     71.25 356 P      52 25.00   2.1
       1.7s    25.50nm          5.0mb
PRU     74.67 344 eP     52 44.50   1.5
KHC     75.66 344 eP     52 47.10  -1.6
WRA     79.37 214 P      53 09.00  -0.5
       0.9s     2.20nm          4.2mb
GBA     80.53 280 Pc     53 15.70  -0.1
       0.5s     1.10nm          4.1mb
     S.D. = 0.9  on  42 of  42 obs.
-------------------------------------
   JAN 22, 1991  02h 49m 35.12± 0.38s
   43.478 N ± 3.0km    0.610 W ± 5.5km
    DEPTH =  10.0km  (geophysicist)
 PYRENEES                         (378)
      ML 3.4 (LDG). Felt (IV) in the
      Lacq area, France.

OGE      0.33 162 Pg     49 41.98   0.1
                Sg     49 46.94
MADF     0.37 205 Pg     49 42.76   0.1
                Sg     49 48.24
ATE      0.40 190 Pg     49 43.32   0.0
                Sg     49 48.52
ESCF     0.40 176 Pg     49 43.04  -0.3
                Sg     49 48.67
ELYF     0.42 222 Pg     49 43.93   0.3
ISSF     0.47 197 Pg     49 44.84   0.1
                Sg     49 51.69
JAU      0.47 158 Pg     49 44.60  -0.2
BOH      0.48 218 Pg     49 44.84   0.0
                Sg     49 51.73
LHE      0.57 181 Pg     49 46.01  -0.6
EPF      0.83 122 Pg     49 51.80   0.7
                Sg     50 34.00
LFF      1.75  33 Pn     50 07.50   1.8
                Pg     50 11.20
                Sg     50 34.90
LPO      1.77  46 Pn     50 07.10   1.1
                Pg     50 11.00
                Sg     50 34.40
RJF      2.38  39 Pn     50 15.10   0.3
                Pg     50 22.40
                Sn     50 43.40
                Sg     50 53.60
CAF      2.41  52 Pn     50 15.60   0.4
                Pg     50 22.70
                Sg     50 54.70
```

22d 02h

MFF	3.14	6	Pn	50	25.90	0.4
			Pg	50	36.80	
			Sg	51	18.00	
LSF	3.16	28	Pn	50	25.90	0.0
			Sn	51	02.30	
			Sg	51	18.00	
LBL	3.28	56	Pn	50	27.50	0.0
TCF	3.45	35	Pn	50	29.30	-0.7
			Sn	51	09.30	
			Sg	51	26.60	
MAF	3.55	38	Pn	50	30.90	-0.5
			Pg	50	44.00	
			Sn	51	11.80	
			Sg	51	29.40	
BGF	3.94	37	Pn	50	36.20	-0.6
			Sn	51	21.30	
			Sg	51	42.20	
AVF	4.34	39	Pn	50	41.70	-0.9
			Sg	51	53.00	
SSF	4.61	38	Pn	50	45.00	-1.5

S.D. = 0.7 on 22 of 22 obs.

? JAN 22, 1991 04h 05m 17.95± 2.76s
16.020 N ±11.5km 60.958 W ±27.6km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)
ML 2.3 (FDF).

DEG	0.31	341	eP	05	26.00	0.1
			S	05	30.50	
SFG	0.33	315	eP	05	25.78	-0.2
			S	05	28.20	
SEG	0.65	306	eP	05	30.65	0.0
			S	05	38.10	
PAG	0.69	271	eP	05	31.50	0.1
			S	05	39.60	
BBL	0.70	225	eP	05	31.40	0.0

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

• JAN 22, 1991 04h 59m 44.99± 2.81s
41.092 N ±21.9km 19.143 E ±15.4km
DEPTH = 10.0km (geophysicist)
ALBANIA (391)
ML 2.5 (TTG).

BDV	1.21	349	iPgd	00	07.48	-0.1
			iSg	00	22.25	
OHR	1.25	89	ePg	00	08.00	-0.3
			eSg	00	26.00	
TTG	1.34	4	iPgd	00	09.10	-0.5
			iSg	00	25.80	
HCY	1.44	341	iPgc	00	10.82	-0.2
			iSg	00	28.75	
PVY	1.62	22	iPgc	00	14.20	0.4
			iSg	00	34.03	
NKY	1.72	356	iPnd	00	14.98	-0.3
			iSn	00	36.90	
BRY	1.86	346	iPnd	00	17.90	0.6
			iSn	00	40.10	
IVA	1.86	17	iPnc	00	17.53	0.2
			iSn	00	40.82	
SKO	1.94	62	ePn	00	18.50	0.2
	0.5s		83.00nm			
			iSn	00	40.60	
			Lg	00	44.80	

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

? JAN 22, 1991 05h 17m 01.90± 9.98s
4.754 N ±70.6km 76.912 W ±46.0km
DEPTH = 33.0km (normal)
COLOMBIA (103)
MD 2.8 (UVC).

HOBC	0.87	117	iPd	17	17.89	0.0
			eS	17	28.80	
CLMC	0.93	158	iPd	17	19.66	0.8
			eS	17	31.80	
BUGC	1.08	143	eP	17	20.76	-0.1
ANCC	1.23	178	ePc	17	22.95	0.0
HOOC	1.31	168	eP	17	23.85	-0.4
DIAC	1.62	154	ePc	17	28.18	-0.5
			eS	17	46.80	
SALC	1.78	173	eP	17	31.10	0.1
			eS	17	51.70	

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

% JAN 22, 1991 06h 24m 19.86± 1.05s
3.593 N ± 8.2km 76.326 W ± 9.0km
DEPTH = 28.7 ± 12.4 km
COLOMBIA (103)
MD 2.4 (UVC).

BUGC	0.31	13	eP	24	27.55	0.1
DIAC	0.33	157	iPc	24	27.68	-0.1
			eS	24	32.40	
HOOC	0.33	248	iPd	24	27.90	0.0
			eS	24	32.70	
CLMC	0.37	320	iPd	24	28.20	-0.2
ANCC	0.55	262	eP	24	31.11	0.1
HOBC	0.78	14	eP	24	34.88	0.0
			eS	24	44.90	

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

? JAN 22, 1991 07h 16m 15.79±14.03s
24.745 N ±31.8km 123.473 E ±115.km
DEPTH = 70.0km (geophysicist)
SOUTHWESTERN RYUKYU ISLANDS (246)

TWC	1.48	265	iPc	16	41.70	0.8
			eS	16	59.70	
TWZ	1.75	282	ePc	16	44.40	-0.3
TWD	1.84	249	ePd	16	45.90	0.2
			eS	17	07.90	
TWF1	2.42	236	ePc	16	53.90	0.0
TWO	2.45	260	ePc	16	53.70	-0.6
TWG	2.92	229	ePc	17	00.80	0.0
TWK	3.10	242	ePd	17	03.30	-0.1
			eS	17	38.40	

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

% JAN 22, 1991 07h 27m 10.68± 0.51s
46.929 N ± 5.8km 1.420 E ± 4.4km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.7 (LDG).

LSF	0.68	174	Pg	27	24.50	0.3
			Sg	27	34.40	
			Sn	27	38.00	
TCF	0.84	139	Pg	27	27.20	0.3
			Sg	27	39.00	
BGF	1.05	110	Pn	27	29.80	-0.7
			Pg	27	30.40	
			Sg	27	44.00	
MAF	1.06	131	Pg	27	31.30	0.6
			Sg	27	45.40	
MFF	1.13	254	Pn	27	30.60	-1.2
			Pg	27	32.60	
			Sg	27	48.00	
AVF	1.33	95	Pg	27	34.80	-0.4
			Sg	27	51.10	
SSF	1.43	84	Pg	27	35.70	-1.0
			Sg	27	54.60	
RJF	1.63	178	Pn	27	39.40	-0.1
			Pg	27	42.60	
			Sg	28	04.50	
SMF	1.69	99	Pg	27	41.10	0.7
			Sg	28	02.70	
LOR	1.70	78	Pg	27	40.50	-0.1
			Sg	28	02.40	
LBF	1.75	87	Pg	27	41.70	0.4
			Sg	28	03.60	
LDF	1.96	329	Pg	27	44.00	-0.3
			Sg	28	09.80	
LPF	2.00	304	Pg	27	46.30	1.4
			Sg	28	12.00	

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

& JAN 22, 1991 07h 59m 37.51s
60.131 N 152.392 W
DEPTH = 84.9km
2.6mb (1 obs.)
SOUTHERN ALASKA (2)
<AEIC>.

RED	0.35	327	eP	59	50.26	-0.6
RSO	0.38	332	iP	59	50.68	-0.6
			iS	00	00.40	
RS2	0.38	332	iP	59	50.70	-0.6
REF	0.39	337	iP	59	50.79	-0.5
			iS	00	01.23	
RDN	0.43	334	iP	59	50.90	-0.6
			iS	00	01.32	
RDT	0.44	359	iP	59	50.80	-0.8
NCT	0.51	328	eP	59	51.37	-0.7
NNL	0.56	99	iP	59	52.57	0.2
HOM	0.61	141	eP	59	52.54	-0.3
			eS	00	03.79	
OPT	0.64	222	iP	59	52.50	-0.7
			eS	00	04.00	
XLV	0.76	153	eP	59	53.52	-0.9
NKA	0.84	42	iP	59	56.42	1.2
CNPM	0.84	136	eP	59	54.57	-0.8
			eS	00	07.89	
BRLK	0.84	115	eP	59	55.32	0.0
AUE	0.92	213	eP	59	55.24	-0.9
AUI	0.96	214	eP	59	55.54	-1.0
PDB	0.97	250	iP	59	55.71	-1.0
			eS	00	10.10	
SPU	1.07	9	iP	59	57.41	-0.6
			eS	00	13.28	
CKL	1.07	1	iP	59	57.48	-0.6
BGL	1.14	0	iP	59	58.40	-0.5
			eS	00	14.37	
SLKM	1.14	70	eP	59	58.10	-0.8
CRP	1.15	6	eP	59	58.71	-0.4
CDD	1.36	208	eP	00	00.36	-1.3
MCNL	1.37	227	eP	00	00.33	-1.4
			eS	00	17.90	
SEW	1.47	90	eP	00	01.66	-1.4
SYI	1.53	180	eP	00	02.91	-0.8
SUA	1.56	30	eP	00	03.89	-0.5
			eS	00	24.88	
PMS	1.79	50	eP	00	06.80	-0.5
PWA	1.96	38	eP	00	09.16	-0.3
PLRM	2.17	46	eP	00	10.98	-1.3
KNK	2.32	55	eP	00	13.06	-1.4
KNIM	2.33	83	eP	00	11.67	-2.9
GHO	2.36	44	eP	00	13.62	-1.5
MTU	2.38	91	eP	00	13.46	-1.8
CUT	2.50	23	eP	00	16.09	-0.8
KLU	3.45	64	iP	00	27.51	-2.6
TOA	3.61	54	eP	00	30.69	-1.6
GLB	4.41	69	eP	00	40.14	-3.3
YAH	5.31	83	eP	00	54.13	-2.0
PNL	6.56	88	eP	01	10.02	-3.1
HON	6.86	90	eP	01	13.77	-3.5
YKA	18.12	66	eP	03	41.90	-2.7
	0.7s		0.30nm			2.6mb
	42 obs. ossociated					

% JAN 22, 1991 11h 34m 21.53± 0.85s
44.567 N ± 5.4km 7.172 E ± 7.9km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

PZZ	0.08	219	P	34	24.14	0.0
			S	34	25.18	
BHB	0.28	13	P	34	27.46	0.0
			S	34	31.34	
STV	0.34	161	P	34	28.64	0.0
			S	34	33.33	
ENR	0.38	152	P	34	29.44	0.0
			S	34	34.08	
ROB	0.57	118	P	34	32.83	-0.3
			S	34	40.19	
FIN	0.82	115	P	34	37.84	0.3
IMI	0.83	142	P	34	37.63	-0.1

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

• JAN 22, 1991 11h 39m 29.87± 1.73s
19.692 S ±17.6km 68.060 W ±16.4km
DEPTH = 191.6 ± 10.8 km
4.3mb (2 obs.)
CHILE-BOLIVIA BORDER REGION (124)

CNCB	2.87	2	iPc	40	18.60	0.0
CCH	2.93	39	P	40	21.00	2.0
LPB	3.14	359	P	40	21.00	-0.7
	1.0s		64.00nm			
ZOBO	3.40	359	P	40	24.20	-0.9
ARE	4.58	314	eP	40	28.00	-11.6
			iS	41	20.20	
SIV	7.60	62	iPc	41	18.00	-1.0
ITB1	13.59	114	e(P)	42	37.00	0.9
ITB	13.79	114	e(P)	42	39.00	0.3
ITB7	13.93	115	e(P)	42	40.00	-0.4
PPD	15.83	101	eP	43	02.90	-1.0
			e	43	04.60	
BAO	19.54	81	ePd	43	45.00	0.0
VAO	19.92	103	eP	43	45.20	-3.6

SILC	23.68	339	eP	44 27.18	1.2
SALC	24.07	338	eP	44 29.46	0.1
DIAC	24.20	340	eP	44 32.10	1.5
HOOC	24.51	339	eP	44 33.11	-0.5
CLMC	24.87	339	eP	44 36.72	-0.1
HOBC	25.18	341	eP	44 38.75	-0.9
LIC	67.12	74	P	50 05.60	0.3
KIC	67.44	74	P	50 07.50	0.2
	0.6s	4.50nm		4.4mb	
YKA	89.76	340	eP	52 06.00	-1.1
	0.8s	2.00nm		4.1mb	
	S.D. = 1.0	on	19 of	21 obs.	

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* JAN 22, 1991 12h 04m 22.50± 1.03s
35.574 N ±19.1km 52.402 E ± 9.3km
DEPTH = 13.4 ± 7.7 km
4.6mb (7 obs.)
IRAN (348)

TEH	0.84	281	ePd	04 38.50	-0.1
KER	4.52	256	eP	05 43.00	10.8X
TAB	5.47	299	eP	06 03.00	17.2X
QUE	13.35	110	eP	07 25.80	-8.5X
			e(S)	11 49.30	
MLR	22.33	304	eP	09 20.00	-1.3
			e	27 54.00	
VAY	23.99	293	eP	09 38.50	1.1
OHR	25.31	292	eP	09 51.00	0.8
GKN	28.33	96	P	10 18.12	0.0
	0.7s	19.00nm		5.0mb	
DMN	28.87	97	P	10 23.30	0.2
KKN	28.94	96	P	10 23.64	0.0
PKI	29.13	97	P	10 25.42	-0.1
GUN	29.37	96	P	10 27.76	0.0
GBA	31.40	128	P	10 45.00	-0.4
CLL	32.19	312	iP	10 52.40	0.4
	1.0s	14.00nm		4.8mb	
SOTA	32.66	304	i(P)	10 55.20	-1.1
	0.9s	6.20nm		4.5mb	
HFS	34.94	327	eP	11 15.30	-0.3
	0.6s	3.50nm		4.4mb	
NAO	36.51	327	P	11 29.10	0.1
	0.9s	2.60nm		4.1mb	
LZH	41.30	74	P	12 10.00	0.6
	2.0s	32.00nm		4.7mb	
			sP	12 24.50	
CHG	44.21	100	ePc	12 32.90	-0.2
	0.8s	7.46nm		4.6mb	
FRB	70.59	336	eP	15 39.00	0.2
	S.D. = 0.7	on	17 of	20 obs.	

& JAN 22, 1991 12h 16m 50.79s
61.758 N 146.839 W
DEPTH = 40.2km
3.6mb (3 obs.)
SOUTHERN ALASKA (2)
<AEIC>. ML 4.5 (PMR). Felt (III) at Anchorage, Palmer and Valdez.

TOA	0.47	42	iPd	17 00.70	-0.5
KLU	0.51	121	iP	17 01.08	-0.7
			eS	17 09.43	
VLZ	0.67	159	iP	17 02.87	-1.0
SML	0.71	275	eP	17 03.38	-1.1
			eS	17 13.79	
TZL	0.73	66	iP	17 04.17	-0.5
KNK	0.85	247	iP	17 05.85	-0.5
SDG	0.98	38	iP	17 07.07	-1.2
GHO	0.99	272	iP	17 07.36	-1.1
PLRM	1.11	262	eP	17 09.03	-1.0
			eS	17 24.65	
PMR	1.11	262	iPd	17 09.30	-0.7
PAX	1.37	27	iP	17 12.63	-1.3
PMS	1.40	250	iP	17 14.37	0.1
PWA	1.45	267	iP	17 14.65	-0.3
GLB	1.48	101	iP	17 14.64	-0.8
THY	1.74	16	eP	17 18.42	-0.6
CUT	1.74	293	iP	17 18.79	-0.2
HUR	1.79	314	eP	17 18.98	-0.8
			eS	17 42.29	
SUA	1.89	263	iP	17 21.16	-0.1
			eS	17 45.87	
RND	1.90	331	iP	17 20.94	-0.5
SLKM	2.07	234	eP	17 23.23	-0.6
DDM	2.09	12	iP	17 24.20	0.1
SEW	2.09	219	eP	17 23.38	-0.7
MCK	2.20	335	eP	17 25.64	-0.1
			eS	17 51.03	
BALM	2.28	107	iP	17 26.05	-0.9
DOT	2.29	33	eP	17 26.21	-0.8
MID	2.35	174	eP	17 29.00	1.2
NKA	2.36	246	eP	17 29.12	1.2
TMW	2.38	47	iP	17 27.57	-0.6
SPU	2.57	259	iP	17 30.03	-0.9
CRP	2.60	261	eP	17 31.61	0.2
HDA	2.66	359	eP	17 30.93	-1.2
CKL	2.70	260	iP	17 31.81	-1.0
BWN	2.70	335	eP	17 31.20	-1.6
BGL	2.71	262	eP	17 32.00	-0.9
CTGM	2.77	104	eP	17 33.20	-0.6
NNL	2.78	234	eP	17 33.73	-0.1
BRLK	2.82	227	eP	17 33.69	-0.7
CCB	2.93	352	eP	17 34.36	-1.6
RDT	2.95	249	eP	17 34.84	-1.5
NEA	3.01	341	eP	17 35.17	-1.9
CNPM	3.12	226	eP	17 37.62	-1.0
REF	3.12	248	eP	17 37.82	-1.0
RDN	3.13	249	eP	17 37.92	-1.1
RSO	3.15	248	eP	17 38.24	-1.1
RS2	3.15	248	eP	17 38.51	-0.9
HOM	3.16	230	eP	17 38.74	-0.6
FBA	3.18	353	eP	17 37.90	-1.7
NCT	3.19	251	eP	17 38.66	-1.1
MDM	3.27	350	eP	17 38.94	-2.0
BCPM	3.96	114	eP	17 48.56	-2.1
AUI	4.06	236	eP	17 50.50	-1.5
PDB	4.11	245	eP	17 50.64	-2.1
SYI	4.20	224	eP	17 52.82	-1.2
PNL	4.21	117	eP	17 52.32	-1.9
CDD	4.41	233	eP	17 55.57	-1.5
TTA	4.43	289	iPc	17 54.50	-2.9
MCNL	4.52	238	eP	17 56.60	-2.0
HQN	4.55	117	eP	17 56.17	-2.9
IMA	5.27	328	eP	18 06.40	-2.9
SIT	7.53	124	eP	18 38.20	-2.5
INK	8.64	35	P	18 52.00	-4.1
	0.7s	3.30nm		4.5mb	
YKA	15.01	73	eP	20 17.90	-3.6
	0.6s	1.30nm		3.4mb	
MBC	17.24	22	eP	20 46.00	-3.7
	0.5s	2.00nm		3.5mb	
NEW	21.49	115	eP	21 40.00	2.2
TUL	40.85	105	eP	24 49.60	19.7
	0.8s	7.00nm			
			e	24 53.00	
	65 obs. associated				

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* JAN 22, 1991 12h 39m 03.78± 0.97s
41.002 N ± 7.9km 114.707 W ±11.4km
DEPTH = 5.0km (geophysicist)
NEVADA (37)
ML 3.4 (NEIS). Felt (III) at Wells.

DUG	1.65	119	eP	39 33.70	0.0
PTI	2.55	42	eP	39 46.10	-0.6
DAU	2.69	102	eP	39 51.00	2.2X
HPI	2.96	23	eP	39 52.50	-0.1
MSU	3.16	141	eP	39 55.00	-0.4
TNP	3.50	214	eP	40 00.40	0.2
BW06	4.24	64	e(P)	40 11.50	0.9
	S.D. = 0.6	on	6 of	7 obs.	

% JAN 22, 1991 14h 33m 29.81± 4.02s
15.972 N ± 9.1km 60.859 W ±28.3km
DEPTH = 10.0km (geophysicist)
LEEWARD ISLANDS (92)
ML 2.4 (FDF).

DEG	0.39	330	eP	33 38.12	0.3
			S	33 43.00	
SFG	0.43	311	eP	33 38.49	-0.1
MGG	0.44	263	eP	33 39.29	0.4
			S	33 44.20	
BBL	0.74	233	eP	33 44.39	0.0
SEG	0.75	305	eP	33 44.27	-0.3
			S	33 52.60	
PAG	0.79	274	eP	33 44.90	-0.3
			S	33 54.10	
	S.D. = 0.4	on	6 of	6 obs.	

? JAN 22, 1991 14h 36m 02.21±18.59s
60.554 N ±28.0km 4.834 E ±141.km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)

ASK	0.19	111	ePg	36 06.34	-0.1
			eSg	36 08.70	
BER	0.30	124	ePg	36 08.37	-0.1
			eSg	36 13.06	
HYA	0.90	47	eP	36 19.25	-0.2
			eS	36 31.36	
NRA0	3.31	84	Pn	36 55.50	0.4
			Lg	37 49.60	
	S.D. = 0.5	on	4 of	4 obs.	

? JAN 22, 1991 16h 08m 29.55± 0.91s
32.737 S ±14.3km 69.796 W ±19.4km
DEPTH = 156.8 ± 15.8 km
MENDOZA PROVINCE, ARGENTINA (139)

JACH	0.67	275	iPc	08 53.50	0.5
			iS	09 10.70	
FCH	0.72	215	iPc	08 53.50	-0.1
			iS	09 10.70	
PEL	0.85	241	iPc	08 53.10	-1.0
			iS	09 10.00	
SAN	1.02	225	iPc	08 55.60	0.2
			iS	09 14.50	
ROCH	1.05	257	iPc	08 54.80	-1.1
			iS	09 13.00	
PCH	1.07	214	iPc	08 56.80	0.9
			iS	09 17.00	
TACH	1.32	226	iPc	08 58.50	0.3
			iS	09 20.80	
IHA	1.58	259	eP	09 01.00	0.2
			iS	09 23.30	
LCCH	1.66	243	iPc	09 01.50	-0.1
			iS	09 25.00	
LNV	1.82	228	iPc	09 03.50	0.2
			iS	09 28.50	
CNCB	15.94	6	P	12 07.00	-0.1
LPB	16.21	6	P	12 11.00	0.8
ZOBO	16.47	6	P	12 13.80	0.3
SIV	18.45	27	P	12 35.00	-0.9
WRA	122.76	207	PKP	27 13.00	4.4X
	1.3s	1.00nm			
GBA	144.57	115	PKPd	27 57.80	8.5X
	0.3s	0.20nm			
	S.D. = 0.7	on	14 of	16 obs.	

% JAN 22, 1991 16h 14m 18.45± 0.78s
46.094 N ± 6.4km 2.869 E ± 5.7km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.0 (LDG).

MAF	0.25	301	Pg	14 23.40	-0.3
			Sg	14 27.70	
BGF	0.46	358	Pg	14 27.50	-0.4
			Sg	14 34.60	
TCF	0.50	293	Pg	14 28.10	-0.4
			Sg	14 35.50	
AVF	0.77	25	Pg	14 33.50	0.0
			Sg	14 44.30	
SMF	0.87	50	Pg	14 13.48	-21.7X
			Sg	14 46.60	
LSF	0.94	280	Pg	14 37.60	1.2
			Sg	14 49.30	
SSF	1.06	24	Pg	14 38.30	-0.2
			Sg	14 53.00	
LBF	1.17	40	Pg	14 40.60	0.2
			Sg	14 56.10	
CAF	1.30	206	Pg	14 42.10	-0.4
			Sg	14 59.20	
LOR	1.36	30	Pg	14 43.80	0.4
			Sg	15 01.70	
	S.D. = 0.6	on	9 of	10 obs.	

JAN 22, 1991 16h 27m 40.51± 0.36s
38.219 S ± 6.1km 73.342 W ± 6.2km
DEPTH = 10.0km (geophysicist)
5.1mb (17 obs.)
NEAR COAST OF CENTRAL CHILE (135)
Felt (V) on Mocha Island.

LNV	4.53	21	iPd	28 50.60	-0.1
LCCH	4.95	17	iPc	28 56.40	-0.2
TACH	4.96	24	iPd	28 56.50	-0.3
			iS	30 05.80	

22d 16h

PCH	5.13	27	iPd	28	59.50	0.2
			iS	30	00.00	
IHA	5.36	15	eP	29	02.00	-0.5
			e(S)	30	01.50	
FCH	5.47	28	iP	29	04.60	0.2
			iS	30	04.00	
PEL	5.51	24	iPd	29	04.50	-0.1
			i	30	04.50	
			iS	30	08.00	
ROCH	5.57	21	iPd	29	05.20	-0.5
			iS	30	08.50	
JACH	5.96	23	iPd	29	10.00	-1.0
			iS	30	18.10	
MDZ	6.46	36	eP	29	25.00	6.9X
			eS	30	43.50	
ITB7	20.84	57	e(P)	32	25.00	0.1
ITB1	21.03	55	e(P)	32	21.00	-5.7X
ITB	21.05	56	e(P)	32	27.20	0.3
ARE	21.74	5	iPd	32	36.50	2.2
	0.5s	14.08nm				4.6mb
CNCB	21.84	14	P	32	38.00	2.3
LPB	22.09	13	P	32	39.00	1.0
Z	18s	1.37um				4.4Msz
			S	36	38.00	
			LR	41	26.00	
ZOBO	22.34	13	P	32	37.00	-3.7X
			i	32	42.00	
			S	36	35.00	
SIV	24.64	29	iPd	33	02.40	-0.1
PPD	24.87	56	eP	33	04.00	-0.7
			e	33	06.70	
NNA	26.31	352	iP	33	16.80	-1.4
	0.8s	9.70nm				4.5mb
VAO	27.18	64	eP	33	25.40	-0.7
			e	33	35.10	
BAO	31.70	52	e(P)	34	08.00	1.3
PDCR	39.75	59	eP	35	14.50	-0.6
			e	35	27.00	
			e	35	30.10	
SOB1	41 04	54	eP	35	27.60	1.8
			e	35	36.70	
			e	35	41.50	
RSCP	74.32	350	iP	39	02.90	-16.8X
	1.0s	33.62nm				
TUL	76.63	341	iPc	39	31.40	-1.5
	0.8s	71.00nm				5.8mb
LIC	77.11	71	Pc	39	35.70	-0.3
	0.7s	22.00nm				5.3mb
TIC	77.40	71	P	39	37.24	-0.4
KIC	77.42	71	Pc	39	37.36	-0.3
	0.8s	28.50nm				5.4mb
FVM	77.45	346	eP	39	35.30	-2.0
	1.1s	39.02nm				5.4mb
ALQ	79.01	333	ePc	39	45.70	-0.5
	1.0s	24.50nm				5.2mb
LEGH	80.40	75	eP	39	53.00	-0.9
KOGH	80.63	75	eP	39	55.00	-0.2
SHGH	80.68	75	eP	39	51.00	-4.4X
GLA	80.73	326	eP	39	56.00	0.7
TPC	82.16	325	eP	40	03.00	0.2
RSNY	82.39	359	eP	40	04.00	0.4
	1.0s	20.61nm				5.2mb
GOL	82.92	336	iP	40	06.20	-0.7
	1.0s	19.00nm				5.2mb
EVA	83.01	118	iPc	40	08.00	0.3
	1.0s	10.00nm				5.0mb
PV09	83.14	332	eP	40	08.20	0.1
SBB	83.45	324	eP	40	10.00	0.6
GSC	83.50	326	eP	40	10.00	0.3
GAC	83.56	358	eP	40	09.50	-0.1
	0.5s	6.00nm				5.1mb
CLC	84.28	325	eP	40	14.00	0.4
CBM	84.90	4	iP	40	16.50	0.2
PRI	85.96	323	eP	40	23.20	1.1
TNP	86.01	327	iP	40	23.10	0.7
	1.0s	20.50nm				5.3mb
FRI	86.21	324	eP	40	22.90	-0.2
PRS	86.45	323	eP	40	25.00	0.7
LLA	86.48	323	ePc	40	25.10	0.6
RSSD	86.54	338	iP	40	24.00	-0.9
	1.0s	8.13nm				4.9mb
BW06	87.08	334	eP	40	26.40	-1.1
	1.2s	13.70nm				5.1mb
CMB	87.37	325	ePc	40	29.20	0.4
BKS	88.10	323	eP	40	33.40	1.2
	0.6s	13.00nm				5.4mb
ORV	89.11	325	eP	40	37.80	0.7
KRI	89.53	111	iPd	40	39.30	-0.5
WDC	90.41	325	ePc	40	42.30	-0.8
LRM	90.74	334	eP	40	44.60	-0.2
NEW	94.49	332	eP	41	00.50	-1.2
	1.1s	4.63nm				4.8mb
YKA	105.71	341	ePdiff	41	49.80	-2.1
	0.8s	0.30nm				4.3mb
YKA	105.71	341	ePKP	46	10.60	5.9X
	0.3s	0.10nm				
WRA	116.57	209	PKP	46	24.00	-2.7X
	0.9s	1.00nm				
NAO	119.86	34	PKP	46	29.50	-2.2X
	0.8s	2.30nm				
HFS	120.86	36	ePKP	46	30.50	-3.1X
	0.5s	1.30nm				
GBA	144.33	126	PKPd	47	15.20	-3.6X
	0.8s	33.30nm				
POO	145.36	115	iPKPc	47	18.00	-2.6X
IPM	146.13	170	ePKPd	47	20.70	-1.3
QUE	146.40	92	ePKP	47	23.80	1.5
	1.0s	38.50nm				
HYB	147.85	122	iPKPc	47	26.20	1.5
	1.0s	45.00nm				
			i	47	36.00	
SNG	148.62	168	ePKP	47	20.80	-5.1X
	S.D. = 1.0	on	58 of	70	obs.	

JAN 22, 1991 18h 25m 40.63± 0.75s
38.130 N ± 6.9km 23.263 E ± 8.1km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 2.7 (ATH).

ATH	0.39	114	ePb	25	49.00	0.4
NEO	1.18	359	ePn	26	01.50	-1.1
EVR	1.38	305	ePn	26	05.00	-1.1
ITM	1.42	229	ePn	26	06.20	-0.3
VLI	1.43	191	ePn	26	06.00	-0.7
VLS	2.11	272	ePb	26	18.00	1.6
VAY	3.23	351	ePn	26	33.70	1.4
OHR	3.53	328	ePn	26	36.50	-0.2
SKO	4.08	341	ePn	26	40.00	-4.4X
	S.D. = 1.2	on	8 of	9	obs.	

JAN 22, 1991 18h 31m 26.83± 0.82s
36.042 N ± 7.2km 137.577 E ± 8.2km
DEPTH = 10.0km (geophysicist)
HONSHU, JAPAN (227)

MTMJ	0.57	19	iP+	31	37.90	-0.6
			S	31	45.80	
IIDJ	0.62	154	iPd	31	39.[illegible]	-0.3
			S	31	47.[illegible]	
MAT	0.71	46	iPc	31	40.60	-0.3
			iS	31	49.90	
CHJJ	1.15	89	iPd	31	48.50	0.2
			S	32	03.90	
TSRJ	1.39	249	P	31	52.40	0.2
			S	32	10.50	
NIIJ	1.66	43	iP+	31	56.90	[illegible]
			S	32	18.80	
	S.D. = 0.7	on	6 of	6	obs.	

• JAN 22, 1991 18h 40m 57.60± 0.88s
23.600 N ± 9.1km 121.395 E ±17.6km
DEPTH = 10.0km (geophysicist)
3.6mb (1 obs.)
TAIWAN (244)

TWF1	0.26	200	iPc	41	03.00	-0.2
			eS	41	07.30	
TWD	0.51	21	iPc	41	06.60	-1.4
TWG	0.83	201	iPc	41	13.10	-0.6
TWK	0.90	248	ePc	41	14.50	-0.3
TWC	1.09	22	ePc	41	17.20	-0.8
			eS	41	32.50	
ANP	1.58	4	eP	41	26.90	1.1
SSE	7.47	359	eP	42	49.00	-0.2
			eLg	45	02.00	
YKA	83.43	23	eP	53	28.60	2.3
	0.7s	0.50nm				3.6mb
	S.D. = 1.4	on	8 of	8	obs.	

• JAN 22, 1991 18h 49m 10.31± 0.84s
10.259 S ±12.8km 118.968 E ±22.0km
DEPTH = 33.0km (normal)
4.2mb (2 obs.)

SOUTH OF SUMBAWA ISLAND (291)

MBL	10.87	176	eP	51	45.00	-1.8
	0.4s	12.00nm				5.5mb X
			eS	53	38.00	
WARB	17.43	156	eP	53	13.50	0.9
MRWA	19.07	188	eP	53	34.00	1.2
			eS	56	48.00	
ASPA	19.51	135	eP	53	37.80	-0.2
	0.6s	9.40nm				4.2mb
			eS	57	04.40	
			iPcS	01	39.20	
MUN	21.76	186	eP	54	11.00	9.9X
			eS	57	52.00	
NWAO	22.62	184	eP	54	22.00	12.5X
	0.6s	7.00nm				
GBA	47.54	299	Pd	57	44.70	-0.2
	0.8s	1.70nm				4.1mb
GUN	49.66	321	P	58	01.80	0.3
PKI	49.71	320	P	58	01.80	-0.1
GKN	50.50	320	P	58	07.60	-0.1
	S.D. = 1.1	on	8 of	10	obs.	

JAN 22, 1991 21h 00m 26.40± 1.41s
38.174 N ± 9.4km 143.346 E ± 7.7km
DEPTH = 14.6 ± 6.7 km
4.7mb (11 obs.) 4.4Msz (1 obs.)
OFF EAST COAST OF HONSHU, JAPAN (229)

OFUJ	1.60	305	iP+	00	54.20	0.1
YAMJ	2.61	271	iP+	01	09.20	0.4
KAKJ	3.21	233	P	01	16.30	-0.9
NIIJ	3.57	256	P	01	23.10	0.7
MAT	4.41	250	iPc	01	35.20	0.9
	0.6s	46.67nm				
			eS	02	59.00	
MDJ	12.16	306	eP	03	21.50	-0.4
Z	12s	0.90um				
CN2	14.63	298	eP	03	59.00	4.4X
Z	16s	0.90um				
			pP	04	01.20	
			eS	06	42.00	
SNY	15.58	290	eP	04	06.60	-0.3
Z	16s	1.10um				
E	10s	0.70um				
DL2	17.01	279	eP	04	24.80	-0.4
	1.0s	160.00nm				5.1mb
SSE	19.53	255	Pc	04	55.00	-1.2
	1.2s	20.00nm				4.3mb
Z	20s	0.50um				4.1Msz
E	10s	0.20um				
			pP	05	01.60	26kmX
NJ2	20.92	260	Pd	05	13.00	2.3
Z	16s	0.30um				3.8MszX
BJI	21.14	284	eP	05	10.00	-3.0X
	0.8s	29.00nm				4.7mb
Z	14s	0.59um				4.1MszX
N	11s	0.34um				
TIY	24.33	279	Pd	05	42.40	-2.2
Z	16s	0.60um				4.2MszX
E	17s	0.60um				
HHC	24.60	286	P	05	45.60	-1.6
WHN	25.05	261	Pd	05	52.10	0.7
BTO	25.79	286	eP	05	58.00	-0.4
N	12s	0.20um				
E	13s	0.70um				
			eS	10	21.00	
XAN	28.02	272	P	06	18.00	-0.9
LZH	31.40	279	Pd	06	49.00	-0.1
	1.4s	38.00nm				5.1mb
Z	15s	0.43um				4.2MszX
E	11s	0.28um				
			pP	06	52.50	12kmX
GYA	32.93	260	P	07	04.60	2.1
CD2	33.21	269	eP	07	04.00	-0.8
GTA	33.71	286	P	07	09.60	0.4
	3.2s	210.00nm				5.5mb X
Z	18s	0.60um				4.4Msz
E	14s	0.50um				
			pP	07	14.00	15kmX
			sP	07	17.10	
KMI	36.65	261	eP	07	26.50	-8.0X
			pP	07	39.00	46kmX
WMO	41.71	296	P	08	17.00	0.8
CHG	43.06	256	eP	08	28.00	0.6
CHTO	43.06	256	eP	08	28.00	0.6
	0.9s	4.48nm				4.2mb

LSA	43.64	275	P	08	36.00	3.5X
GUN	48.57	276	P	09	11.60	0.0
KKN	49.10	276	P	09	15.46	0.0
PKI	49.10	276	P	09	15.18	-0.4
DMN	49.32	276	P	09	17.00	-0.2
GKN	49.50	276	P	09	18.40	-0.1
	1.0s	75.00nm			5.6mb	
INK	52.67	28	eP	09	42.00	0.2
MBC	55.00	17	eP	09	59.00	0.2
WRA	58.42	190	P	10	22.00	-1.8
	0.6s	6.50nm			4.9mb	
HYB	59.76	269	eP	10	32.50	-0.9
			e	10	41.00	
YKA	62.05	31	eP	10	47.40	-0.8
	0.9s	0.60nm			3.8mb	
GBA	62.83	266	P	10	53.70	-0.3
FFC	71.91	34	eP	11	50.00	-0.6
	0.9s	9.00nm			4.8mb	
HFS	73.67	336	eP	12	00.70	-0.1
	0.4s	2.10nm			4.5mb	
Z	17s	0.13um			4.3MszX	
		LR		42	27.00	
NAO	74.01	338	P	12	02.40	-0.4
	0.8s	5.50nm			4.6mb	
FRB	75.31	14	eP	12	10.00	-0.2
CLL	80.86	331	e(P)	12	41.00	0.1
			eSg	35	21.00	
KHC	82.36	329	eP	12	50.00	1.1
SDI	88.15	325	P	13	19.50	1.6
			eSg	13	24.50	
LPB	144.99	61	(PKP)	20	10.00	4.4X
CNCB	145.26	61	PKP	20	08.00	1.8
SIV	149.18	51	ePKP	20	15.00	3.1X
SOB1	150.91	9	ePKP	20	22.50	8.0X
	S.D. = 1.0	on	41 of	48	obs.	

? JAN 22, 1991 21h 16m 59.79±12.12s
12.182 N ±111.km 61.702 W ±57.9km
DEPTH = 130.0km (geophysicist)
WINDWARD ISLANDS (95)
MD 3.1 (TRN).

BOT	1.40	136	eP	17	27.20	0.2
			eS	17	46.45	
TCE	1.48	182	eP	17	27.72	-0.3
			eS	17	46.87	
TRN	1.55	169	eP	17	28.75	-0.1
			eS	17	47.79	
TBH	1.80	160	eP	17	31.16	-0.6
			eS	17	53.00	
TPP	1.87	172	eP	17	33.31	0.7
			eS	17	55.75	
	S.D. = 0.7	on	5 of	5	obs.	

JAN 22, 1991 21h 35m 04.74± 1.39s
38.253 N ± 8.6km 143.147 E ± 8.9km
DEPTH = 34.7 ± 9.7 km
4.7mb (13 obs.)
OFF EAST COAST OF HONSHU, JAPAN (229)

OFUJ	1.42	306	iP+	35	29.20	0.6
YAMJ	2.45	269	iP+	35	44.20	1.0
KAKJ	3.13	230	P	35	51.20	-1.7
NIIJ	3.44	254	P	35	57.90	0.7
MAT	4.29	248	eP	36	10.00	0.6
	0.7s	43.84nm				
			eS	37	34.00	
MDJ	11.99	306	eP	37	56.50	0.4
CN2	14.46	298	eP	38	29.00	0.3
Z	16s	1.00um				
			sP	38	35.00	
			eS	41	12.00	
SNY	15.41	290	eP	38	39.80	-1.3
Z	18s	1.10um				
N	10s	0.50um				
E	12s	0.60um				
DL2	16.84	279	eP	39	00.00	0.6
	1.2s	110.00nm			4.9mb	
Z	18s	0.40um			3.8Msz	
		S		42	00.00	
SSE	19.40	255	eP	39	30.00	-0.7
	1.4s	50.00nm			4.6mb	
Z	20s	0.45um			4.1Msz	
E	11s	0.25um				
		eS		43	07.00	
NJ2	20.78	260	Pc	39	45.50	0.3
Z	16s	0.30um			3.8MszX	
BJI	20.97	283	eP	39	45.50	-1.6
	0.9s	25.00nm			4.6mb	
Z	12s	0.72um			4.3MszX	
N	10s	0.54um				
TIY	24.16	278	eP	40	17.50	-1.3
Z	16s	0.70um			4.2MszX	
E	12s	0.40um				
HHC	24.42	286	P	40	20.00	-1.3
WHN	24.91	261	eP	40	26.30	0.4
BTO	25.62	286	eP	40	30.00	-2.6X
XAN	27.86	272	P	40	52.00	-1.2
LZH	31.24	278	Pc	41	23.00	-0.4
	1.4s	33.00nm			5.0mb	
N	10s	0.24um				
E	10s	0.22um				
			pP	41	27.00	14kmX
GYA	32.79	260	P	41	39.40	2.4X
CD2	33.06	269	eP	41	38.20	-1.0
GTA	33.54	286	P	41	44.60	1.2
	3.5s	210.00nm			5.5mb X	
Z	17s	0.60um			4.4MszX	
E	14s	0.60um				
			pP	41	49.00	15kmX
			sP	41	52.30	
KMI	36.51	261	Pc	42	09.50	0.5
WMQ	41.53	296	P	42	53.40	3.0X
CHG	42.92	256	eP	43	02.60	0.6
CHTO	42.92	256	eP	43	02.60	0.6
	0.8s	3.84nm			4.2mb	
LSA	43.47	275	P	43	06.20	-0.7
GUN	48.41	275	P	43	46.80	0.9
	0.8s	43.00nm			5.5mb	
KKN	48.93	276	P	43	50.40	0.6
	0.6s	30.00nm			5.5mb	
PKI	48.93	275	P	43	50.40	0.4
DMN	49.15	276	P	43	52.20	0.6
GKN	49.34	276	P	43	53.20	0.3
	1.1s	66.00nm			5.6mb	
INK	52.67	28	eP	44	17.00	-0.4
MBC	54.97	17	eP	44	34.00	-0.2
	1.0s	6.00nm			4.6mb	
WRA	58.47	190	P	45	07.00	7.3X
	0.9s	7.70nm			4.8mb	
HYB	59.61	269	eP	45	07.00	-0.8
			e	45	16.00	
QUE	61.89	288	eP	45	23.10	-0.3
YKA	62.06	31	eP	45	22.10	-1.7
	1.0s	0.50nm			3.6mb X	
ASPA	62.20	190	eP	45	15.40	-9.7X
	1.5s	4.90nm			4.4mb	
GBA	62.68	266	P	45	28.50	0.0
HFS	73.54	336	eP	46	35.00	-0.5
	0.4s	1.70nm			4.4mb	
Z	15s	0.10um			4.2MszX	
		LR		16	18.00	
NAO	73.87	338	P	46	37.20	-0.3
	0.8s	5.10nm			4.6mb	
FRB	75.27	14	eP	46	45.00	-0.4
CLL	80.71	331	eP	47	16.00	0.4
			e	47	24.00	
PRU	81.15	329	eP	47	19.00	1.1
KHC	82.21	329	eP	47	24.80	1.3
LPB	145.08	60	ePKP	54	43.00	2.0
CNCB	145.36	61	PKP	54	42.00	0.3
SIV	149.25	50	PKP	54	51.00	3.7X
SOB1	150.85	8	ePKP	54	57.70	7.9X
	S.D. = 0.9	on	42 of	49	obs.	

• JAN 22, 1991 21h 38m 18.46± 2.49s
36.595 N ±20.2km 71.087 E ± 9.6km
DEPTH = 170.7 ± 26.8 km
3.6mb (2 obs.)
AFGHANISTAN-USSR BORDER REGION (717)

QUE	7.26	210	eP	40	03.20	0.0
			eS	41	22.20	
GKN	14.30	123	P	41	34.08	-0.4
DMN	14.87	123	P	41	42.04	0.4
KKN	14.87	122	P	41	41.32	-0.3
PKI	15.10	123	P	41	44.88	0.3
GUN	15.20	121	P	41	45.96	0.0
GBA	23.59	164	Pd	43	14.80	0.0
	0.5s	1.60nm			3.8mb	
YKA	81.15	3	eP	50	15.50	0.0
	0 4s	0.30nm			3.4mb	
	S.D. = 0.3	on	8 of	8	obs.	

• JAN 22, 1991 21h 39m 32.48± 0.76s
23.856 S ± 6.0km 179.605 E ±13.5km
DEPTH = 503.1 ± 9.2 km
5.3mb (10 obs.)
SOUTH OF FIJI ISLANDS (171)

SVA	5.81	349	eP	41	07.10	-0.9
SGE	6.43	346	iP	41	14.80	0.6
			eS	42	39.40	
MBU	6.90	353	iPd	41	13.10	-5.7X
DZM	12.26	276	iPc	42	22.30	7.4X
WLZ	14.36	193	P	42	39.10	2.8X
TAZ	14.57	190	P	42	43.00	4.5X
NOZ	14.78	185	P	42	42.30	1.8
NGZ	15.65	192	eP	42	50.70	1.2
CNZ	15.68	192	eP	42	51.80	2.0
PGZ	16.95	189	eP	43	02.10	0.0
	0.4s	53.00nm			5.5mb	
MNG	17.07	191	P	43	02.20	-1.2
	0.3s	41.00nm			5.5mb	
KIW	17.41	192	P	43	05.70	-1.0
MTW	17.59	190	P	43	07.00	-1.4
WDW	17.79	191	eP	43	10.20	-0.1
BLW	17.80	190	eP	43	09.90	-0.6
MRW	17.81	192	P	43	10.80	0.4
WEL	17.85	192	P	43	11.00	0.2
			S	46	13.00	
TCW	17.87	193	eP	43	11.30	0.2
MOW	17.89	191	eP	43	11.40	0.1
THZ	18.71	196	P	43	20.50	1.2X
KHZ	19.18	194	P	43	24.00	0.2
	0.5s	77.00nm			5.6mb	
LTZ	19.83	196	P	43	29.40	-0.6
MQZ	20.61	194	P	43	37.50	0.3
MMCZ	22.76	199	P	43	56.00	-1.1
MHZ	22.77	199	eP	43	55.50	-1.6
PMG	34.14	289	eP	45	36.00	-0.2
	1.0s	120.00nm			5.4mb	
OIS	37.10	267	eP	46	02.00	1.3
ASPA	41.69	261	iPd	46	39.20	1.2
	0.5s	45.40nm			5.3mb	
			iScP	51	23.50	
			iS	52	19.10	
			eScS	55	07.60	
WRA	42.05	266	P	46	41.00	0.2
	0.4s	51.30nm			5.4mb	
FORR	45.95	249	eP	47	12.00	0.9
	0.4s	41.00nm			5.3mb	
WARB	47.78	256	eP	47	25.20	0.0
KNA	48.30	270	eP	47	29.50	0.3
NWAO	54.92	246	eP	48	17.00	-0.2
MBL	54.93	260	iPd	48	16.80	-0.6
	0.4s	7.00nm			4.3mb	
BAL	55.71	248	eP	4B	22.00	-0.8
	0.4s	7.00nm			4.3mb	
MUN	55.92	247	eP	4B	24.00	-0.2
CGP	62.49	294	eP	49	06.50	-1.8
CHG	B9.32	291	ePd	51	35.90	0.0
	1.0s	12.00nm			4.7mb	
QUE	120.44	292	ePKP	57	25.20	-2.9
NAO	142.24	351	PKP	57	5B.80	-9.2X
	0.7s	3.10nm				
HFS	142.43	348	ePKP	57	59.20	-9.1X
	0.4s	13.30nm				
ADI	147.49	295	ePKP	5B	18.00	0.4
JVI	147.51	292	iPKPd	58	18.50	0.8
PRNI	147.93	289	iPKPd	58	19.90	1.5
EKA	148.49	3	PKPc	58	18.80	0.4
	0.6s	4.50nm				
KRA	149.41	334	ePKP	58	21.00	1.0
KSP	150.12	339	iPKPd	5B	22.B0	1.8X
	0.7s	24.00nm				
CLL	150.71	343	iPKP	5B	24.20	2.3X
	1.0s	28.00nm				
BRG	150.83	341	iPKPd	58	24.50	2.4X
	1.0s	18.00nm				
PRU	151.42	340	PKP	58	25.B0	2.8X
KHC	152.48	340	ePKP	58	28.50	3.9X
			e	58	42.00	
	S.D. = 1.1	on	39 of	51	obs.	

• JAN 22, 1991 21h 53m 01.78± 0.99s
8.294 S ± 9.9km 119.822 E ±13.8km
DEPTH = 192.0 ± 12.6 km
4.8mb (7 obs.)
FLORES ISLAND REGION (286)

22d 21h

MKS	3.08	353	iPc	53	53.30	0.9
KUPT	4.17	117	eP	54	07.00	1.1
KNA	11.46	131	eP	55	38.20	-2.8
			eS	57	42.00	
MTN	12.00	113	eP	55	46.80	-1.1
	0.3s	112.00nm			5.8mb	X
			eS	57	51.00	
MBL	12.79	180	eP	55	57.00	-1.0
	0.3s	10.00nm			4.7mb	
			eS	58	08.00	
WARB	18.94	161	iPd	57	11.30	0.7
	0.4s	13.00nm			4.8mb	
			eS	00	38.00	
ASPA	20.39	140	iPc	57	26.00	0.7
	0.3s	41.90nm			5.4mb	
			eS	01	03.20	
BAL	22.39	187	eP	57	46.00	1.2
			e	58	10.00	
			eS	01	48.00	
OIS	22.67	125	iPc	57	49.30	1.6
	0.2s	12.00nm			5.1mb	
			eS	02	07.00	
FORR	23.74	162	iPd	57	58.50	0.7
	0.4s	13.00nm			4.9mb	
MUN	23.80	188	eP	58	26.00	27.6X
			eS	02	28.00	
NWAO	24.63	185	eP	58	37.00	30.9X
			eS	02	48.00	
GBA	47.37	297	P	01	18.00	-0.6
	0.2s	1.00nm			3.9mb	
GUN	48.71	319	P	01	28.80	-0.4
PKI	48.79	318	P	01	29.60	-0.2
DMN	49.02	318	P	01	32.00	0.5
KKN	49.02	318	P	01	31.00	-0.5
GKN	49.59	318	P	01	35.20	-0.5
	0.4s	6.00nm			4.5mb	
YKA	113.22	24	ePKP	11	17.40	-0.2
	0.6s	0.50nm				
	S.D. = 1.2	on	17 of	19 obs.		

% JAN 22, 1991 21h 58m 13.94± 0.87s
40.211 N ± 8.0km 29.032 E ± 7.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YLV	0.44	36	iPg	58	22.80	-0.1
			iSg	58	29.80	
DST	0.68	207	iPg	58	27.40	-0.1
			iSg	58	37.40	
HRT	0.78	38	iPg	58	29.40	0.3
ISK	0.85	1	iPg	58	30.20	-0.2
			iSg	58	41.90	
BNT	0.86	280	ePg	58	30.90	0.3
			eSg	58	40.90	
EDC	0.90	279	ePg	58	31.00	-0.3
	S.D. = 0.3	on	6 of	6 obs.		

JAN 22, 1991 22h 35m 23.93± 0.86s
45.606 N ± 7.4km 14.240 E ± 6.2km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MD 2.5 (LJU), 2.3 (TRI).

CEY	0.19	44	ePg	35	27.60	-0.5
			eSg	35	30.30	
RIY	0.28	159	iPgd	35	29.30	-0.5
			iSg	35	34.10	
TRI	0.35	287	iPg	35	30.50	-0.6
			iSg	35	36.20	
LJU	0.48	25	ePg	35	33.40	-0.3
			iSg	35	39.90	
VOY	0.49	330	iPgd	35	32.80	-1.1
			eSg	35	40.48	
PTJ	1.24	76	iPgd	35	47.20	0.2
			eSg	36	04.50	
ZAG	1.24	80	ePg	35	47.50	0.6
			iSn	36	06.50	
FVI	1.42	315	P	35	52.00	2.3
			eSg	36	13.00	
	S.D. = 1.3	on	8 of	8 obs.		

JAN 22, 1991 23h 47m 44.32± 0.70s
23.648 N ± 7.0km 121.372 E ±13.2km
DEPTH = 10.0km (geophysicist)
3.3mb (1 obs.)
TAIWAN (244)

TWF1	0.30	193	iPc	47	50.50	-0.1
			eS	47	55.10	
TWD	0.48	25	iPc	47	53.50	-0.5
TWG	0.87	199	ePc	48	01.10	0.1
TWK	0.90	245	ePc	48	01.60	0.1
TWC	1.05	24	ePc	48	04.80	0.7
			eS	48	19.90	
SSE	7.42	359	e(P)	49	35.00	-0.2
			Lg	51	45.00	
YKA	83.39	23	eP	00	16.80	4.0X
	0.5s	0.10nm			3.3mb	
	S.D. = 0.5	on	6 of	7 obs.		

? JAN 23, 1991 01h 00m 21.91± 4.97s
24.436 S ±38.4km 67.072 W ±18.1km
DEPTH = 160.7 ± 40.3 km
4.0mb (1 obs.)
CHILE-ARGENTINA BORDER REGION (127)

CCH	7.07	7	(P)	02	05.00	0.7
CNCB	7.64	353	iPc	02	12.60	0.5
LPB	7.92	353	P	02	16.00	0.3
ZOBO	8.18	353	P	02	19.00	-0.4
SIV	10.11	35	P	02	42.60	-1.7
PPD	14.69	84	eP	03	47.80	4.7X
VAO	18.47	90	eP	04	28.20	0.0
			e	04	29.30	
SOB1	29.19	63	(P)	06	12.00	1.5
YKA	94.51	340	eP	13	23.90	-0.5
	0.6s	0.50nm			4.0mb	
WRA	131.21	207	PKP	19	17.00	0.1
	0.3s	1.00nm				
GBA	144.86	101	PKPc	19	41.50	-0.4
	0.6s	1.70nm				
	S.D. = 1.0	on	10 of	11 obs.		

JAN 23, 1991 01h 05m 06.73± 0.31s
4.712 N ± 3.5km 76.230 W ± 3.8km
DEPTH = 117.3 ± 3.5 km
4.9mb (46 obs.)
COLOMBIA (103)
Felt at Armenio, Coli, Monizolez and Pereiro.

HOBC	0.37	165	iPd	05	24.75	0.7
BUGC	0.81	182	iPd	05	28.09	0.9
CLMC	0.89	202	iPc	05	28.17	0.2
HOQC	1.30	198	iPc	05	32.16	-0.2
ANCC	1.35	208	iPc	05	32.19	-0.4
DIAC	1.41	179	iPd	05	34.21	0.7
SALC	1.79	195	iPd	05	39.11	1.1
SILC	2.01	183	iPd	05	41.92	0.8
BOG	2.16	92	iPc	05	47.00	4.1X
			iS	06	16.00	
PURC	2.38	183	iPd	05	47.34	1.4
PSO	3.66	197	eP	06	03.50	0.5
BMG	3.92	53	iPd	06	08.50	2.4
CUMC	4.07	204	ePc	06	07.82	-0.8
COTA	4.83	206	eP	06	18.00	-1.0
CAYA	4.92	201	eP	06	20.00	-0.2
ANGL	5.24	195	eP	06	13.50	-11.0X
YANA	5.34	206	eP	06	24.20	-1.6
			eS	07	25.50	
UPA	5.36	322	iPd	06	24.70	-1.0
			S	07	24.50	
GGP	5.40	206	eP	06	25.80	-1.0
VC1	5.74	202	eP	06	31.00	-0.5
ECO	5.76	324	iP	06	30.40	-0.9
			(S)	07	33.00	
SDV	6.93	53	iPnd	06	48.40	0.9
			iSn	08	02.60	
TOV	8.14	51	ePn	07	03.50	-0.2
			iSn	08	29.50	
GUAC	10.42	58	iP	07	33.00	-1.4
OLLA	10.73	60	iP	07	36.10	-2.4
CAR	10.87	57	iP	07	39.30	-1.0
LLAV	10.95	58	iP	07	39.40	-2.0
TCE	15.52	67	eP	08	42.01	1.5
TPP	15.67	68	eP	08	46.96	4.7X
TRN	15.83	67	eP	08	46.44	2.2
TBH	16.08	68	eP	08	48.31	0.8
NNA	16.60	182	iP	08	56.50	2.5
	0.5s	10.56nm			4.4mb	
	Z 20s	0.89um			5.0MszX	
BOT	16.64	66	eP	08	55.62	1.2
BIM	17.83	56	eP	09	06.30	-2.7
FDF	17.88	55	eP	09	08.20	-1.4
MVM	17.99	56	eP	09	10.76	-0.2
BBL	18.05	52	eP	09	08.00	-3.6X
CRM	18.08	55	eP	09	12.00	0.1
PAG	18.18	51	eP	09	10.00	-3.2X
SEG	18.54	50	eP	09	15.00	-2.1
BPA	18.67	48	eP	09	17.51	-1.1
ARE	21.55	168	eP	09	53.00	4.6X
ZOBO	22.34	159	P	09	55.00	-1.4
LPB	22.59	159	P	10	01.00	2.4
	1.0s	40.00nm			4.7mb	
CNC8	22.89	159	Pc	10	02.00	0.3
CCH	24.11	156	P	10	13.00	-0.2
SIV	25.46	144	iPc	10	25.00	-0.6
BAO	34.50	126	ePc	11	45.00	-0.9
TUL	35.90	332	iPc	11	56.30	-1.0
	0.8s	91.90nm			5.7mb	
PPD	36.08	138	ePc	11	57.20	-1.8
			e	12	06.90	
ITB1	36.10	145	e(P)	11	52.00	-7.1X
MEO	36.38	328	iPd	12	00.80	-0.6
ITB7	36.59	145	e(P)	12	01.50	-1.7
SOB1	37.84	111	eP	12	14.90	1.0
VAO	39.69	135	ePc	12	27.70	-1.6
			e	12	58.70	
PDCR	40.66	115	eP	12	35.40	-1.8
ALQ	41.06	321	eP	12	41.40	0.9
	0.8s	44.03nm			5.3mb	
GLA	45.69	313	eP	13	19.00	1.3
BAR	46.88	311	eP	13	27.00	-0.1
TPC	47.10	314	eP	13	29.00	0.1
PLM	47.33	312	eP	13	32.00	1.1
RVR	48.01	313	eP	13	36.00	0.1
GSC	48.23	314	eP	13	38.00	0.4
SBB	48.67	313	eP	13	41.00	0.0
PAS	48.67	312	eP	13	21.00	-19.9X
CLC	49.04	315	eP	13	44.00	0.1
SCH	50.54	7	eP	13	55.00	0.1
LRM	51.64	328	ePd	14	03.40	-0.3
FFC	54.04	342	iPd	14	19.60	-1.4
	0.5s	8.00nm			4.9mb	
SES	54.10	333	eP	14	20.00	-1.5
PNT	57.61	328	iPc	14	47.20	0.6
FRB	59.18	4	eP	14	57.00	-0.2
YKA	64.21	341	eP	15	28.60	-2.3
	0.5s	11.80nm			5.1mb	
AVE	69.74	56	iPc	16	07.50	1.3
TIC	70.84	85	Pc	16	12.18	-1.1
	0.6s	17.50nm			5.0mb	
LIC	70.85	85	Pc	16	12.32	-1.0
	0.7s	32.00nm			5.3mb	
KIC	71.13	85	Pc	16	14.14	-0.8
	0.7s	36.50nm			5.3mb	
IFR	71.67	56	iPc	16	19.50	1.4
INK	73.98	341	ePd	16	30.20	-0.5
ECP	74.00	37	eP	16	31.30	0.2
	0.8s	40.00nm			5.3mb	
ETA	74.22	36	eP	16	32.60	0.3
	0.7s	48.00nm			5.4mb	
MBC	75.33	350	ePd	16	37.50	-0.8
	0.5s	3.00nm			4.3mb	
WEGH	75.55	85	eP	16	40.00	-0.8
KOGH	75.61	85	eP	16	40.00	-1.1
LEGH	75.69	85	eP	16	40.00	-1.5
SHGH	75.82	85	eP	16	41.50	-0.7
EKA	76.54	34	Pd	16	46.80	1.3
	1.2s	23.90nm			4.9mb	
LPF	76.61	42	eP	16	46.00	0.0
	0.9s	22.95nm			5.0mb	
GRR	76.78	41	eP	16	47.10	0.1
	0.6s	24.35nm			5.2mb	
EPF	76.98	47	eP	16	48.90	0.6
	1.3s	54.15nm			5.2mb	
MFF	77.03	43	eP	16	48.70	0.3
	0.7s	29.75nm			5.2mb	
FLN	77.08	41	eP	16	48.80	0.2
	0.9s	36.05nm			5.2mb	
LDF	77.30	41	eP	16	50.10	0.3
	1.1s	29.30nm			5.0mb	
LFF	77.46	45	eP	16	51.20	0.4
	0.6s	13.55nm			4.9mb	
LPO	77.76	45	eP	16	52.70	0.3
	0.7s	19.85nm			5.0mb	
RJF	78.05	45	eP	16	54.30	0.3
	0.7s	12.15nm			4.8mb	
LSF	78.15	44	eP	16	54.60	0.1
	1.0s	17.00nm			4.8mb	
CAF	78.40	45	eP	16	56.20	0.2

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        1.1s    19.55nm          4.8mb
TCF     78.62  44 eP     16 57.10   -0.1
        0.9s     9.00nm          4.6mb
MAF     78.86  44 eP     16 58.60    0.1
        0.8s    14.10nm          4.8mb
BGF     79.08  44 eP     16 59.80    0.2
        1.1s    25.65nm          4.9mb
AVF     79.45  43 eP     17 01.50   -0.1
        0.7s     6.60nm          4.5mb
SSF     79.57  43 eP     17 02.10   -0.2
        0.9s    13.90nm          4.8mb
SMF     79.77  44 eP     17 03.40    0.0
        0.8s    14.10nm          4.8mb
LOR     79.83  43 eP     17 03.30   -0.3
        1.0s    18.00nm          4.8mb
LBF     79.89  43 eP     17 03.60   -0.4
        1.0s    11.00nm          4.6mb
ENN     81.41  40 iPc    17 12.90    1.1
        0.9s    22.00nm          5.0mb
HAU     81.55  42 eP     17 12.60   -0.1
LPL     81.73  45 eP     17 14.90    1.0
        1.0s    12.00nm          4.6mb
LPG     81.74  45 eP     17 15.20    1.1
        0.9s     5.75nm          4.4mb
BSF     81.84  43 eP     17 14.10   -0.2
        1.0s    16.00nm          4.8mb
WTS     82.02  38 eP     17 16.50    1.6
        0.8s    16.00nm          4.9mb
CDF     82.19  42 eP     17 16.10    0.0
        1.1s    12.20nm          4.6mb
ABH     82.41  40 eP     17 18.06    1.0
NAO     84.48  29 P      17 28.00    0.7
        1.1s     7.00nm          4.5mb
SOTA    84.83  43 iPc    17 30.30    0.8
        0.5s     3.90nm          4.6mb
                  i      17 33.90
MOX     85.02  40 e(P)   17 32.00    1.7
CLL     85.88  39 iPc    17 35.60    1.1
        1.3s    26.00nm          5.0mb
WET     85.89  41 eP     17 35.70    1.1
        0.8s    21.00nm          5.1mb
HFS     85.91  30 eP     17 34.00   -0.4
        0.6s     1.00nm          3.9mb
BHG     85.95  43 eP     17 36.50    1.6
        0.8s    14.00nm          5.0mb
KHC     86.35  41 P      17 37.30    0.4
                  e      18 08.30
BRG     86.49  39 iPc    17 39.00    1.5
        0.8s    18.00nm          5.1mb
VOY     86.73  44 e(P)   17 40.10    1.2
PRU     86.92  40 Pc     17 41.00    1.4
        1.0s    14.50nm          4.9mb
                  e      18 32.00
LJU     87.17  44 e(P)   17 42.00    1.1
KSP     87.98  39 ePc    17 46.40    1.7
ZST     88.75  42 eP     17 49.20    0.8
                  e      18 19.70
KRA     90.38  40 eP     17 53.40   -2.5
                  e      18 16.90
NOZ    105.21 231 ePKP   23 33.10   15.9X
MBU    105.74 254 ePKP   23 24.60    5.7X
WLZ    107.22 232 ePKP   23 36.10   15.1X
OIS    141.78 242 iPKPc  24 26.70   -0.4
        0.7s    46.00nm
                  i      24 54.50
FORR   145.35 219 ePKP   24 31.90   -0.9
ASPA   145.38 234 iPKPd  24 31.80   -1.4
        0.5s    28.80nm
GBA    148.15  55 PKP    24 40.80    3.0X
WARB   149.42 223 ePKP   24 43.00    3.4X
KNA    153.10 244 ePKP   24 29.00  -16.1X
     S.D. = 1.1  on 124 of 138 obs.
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  JAN 23, 1991  01h 12m 29.75± 0.11s
  51.965 N ± 3.0km   178.838 E ± 1.9km
  DEPTH = 108.4km  (geophysicist)
  5.7mb ( 93 obs.)
 RAT ISLANDS, ALEUTIAN ISLANDS    ( 6)
    Mo=5.0*10**18 Nm (PPT). Felt (V)
    on Amchitka and (IV) on Adak.
    Depth from broadband
    displacement seismograms.
    FAULT PLANE SOLUTION: P-Waves
     NP1:Strike=207 Dip=70 Slip=  29
     NP2:      106      63       157
     Principal Axes:
      T               Plg=34  Azm= 69
      P                  5       335
    Comment: The focal mechanism is
      moderately well controlled and
      corresponds to strike-slip
      faulting with a moderate
      reverse component. The
      preferred fault plane is not
      determined.
    RADIATED ENERGY
     No. of sta:  13  Focal mech.  F
     Energy      9.6±2.7*10**13 Nm
    MOMENT TENSOR SOLUTION
    Dep  99            No. of sta: 16
    Moment Tensor;    Scale 10**18 Nm
      Mrr= 1.02         Mtt=-3.49
      Mff= 2.47         Mrt=-3.20
      Mrf=-4.00         Mtf=-0.85
     Principal axes:
      T  Val=  6.05  Plg=43  Azm=103
      N        0.02     30      225
      P       -6.07     32      337
    Best Double Couple:Mo=6.1*10**18
     NP1:Strike=122 Dip=31 Slip= 169
     NP2:      222      84        60
    CENTROID, MOMENT TENSOR     (HRV)
    Data Used: GDSN
    L.P.B.: 20S, 54C  M.W.: 13S, 28C
    Centroid Location:
    Origin Time       01:12:34.9 0.1
    Lat 52.13N 0.01 Lon 179.02E 0.01
    Dep 102.0 0.8 Half-duration  6.0
    Moment Tensor;    Scale 10**18 Nm
      Mrr= 0.33 0.05  Mtt=-3.20 0.07
      Mff= 2.88 0.05  Mrt=-0.33 0.04
      Mrf=-3.77 0.04  Mtf=-1.90 0.04
     Principal Axes:
      T  Val=  5.79  Plg=34  Azm= 79
      N       -1.44     47       215
      P       -4.35     23       333
    Best Double Couple:Mo=5.1*10**18
     NP1:Strike=112 Dip=48 Slip= 171
     NP2:      208      84        43
ADK      2.77  90 iPc    13 14.20    0.9
SMY      3.00 287 iPc    13 16.30   -0.1
PET     12.35 283 iPc    15 24.00    1.3
                  iS     17 29.00
SDN     12.70  66 ePc    15 26.90   -0.5
ILT     16.03   3 iPd    16 11.00    1.2
                  iS     19 22.00
PDB     16.94  52 eP     16 23.20    2.1
TTA     17.29  41 ePc    16 27.50    2.0
MGD     17.54 309 iPd    16 29.00    0.6
                  iS     19 48.00
IMA     19.75  34 iPc    16 53.80    0.7
                  i      16 57.20   13kmX
PMR     19.81  48 ePc    16 51.80   -1.8
                  id     16 55.10   13kmX
MID     20.80  55 eP     17 03.70    0.1
        0.8s  3070.70nm          6.7mb
                  id     17 05.90    8kmX
TOA     21.30  48 ePc    17 09.70    1.0
COL     21.41  40 iPc    17 10.47    0.7
                  iS     20 59.76
                  esS    21 35.51
F8A     21.41  40 ePc    17 10.00    0.2
KUR     21.45 264 iPd    17 12.00    1.8
                  iS     21 04.60
BRW     22.28  21 iPc    17 20.30    2.1
YSS     23.81 272 iPd    17 34.00    0.7
                  iS     21 07.00
YKU     24.17  55 eP     17 38.20    1.6
        0.6s  1974.90nm          6.7mb X
SAP     26.60 265 eP     18 00.00    0.8
SIT     26.68  61 eP     18 00.10    0.2
        1.4s   598.40nm          5.9mb
                  e      18 43.20  218kmX
INK     27.84  36 iPc    18 10.40    0.2
        0.8s   306.00nm          6.0mb
                  pP     18 38.00  130kmX
TIK     29.40 330 iPd    18 22.50   -1.7
                  eS     23 07.00
MAJO    32.45 258 ePd    18 52.61    1.3
                  epPd   19 14.29   95kmX
                  esPc   19 25.55
                  eS     23 55.14
                  esS    24 37.63
                  eSS    25 53.22
MAT     32.45 258 iPd    18 50.90   -0.4
        1.7s  1346.15nm          6.4mb
                  eS     23 59.00
MDJ     33.03 277 iPd    18 54.50   -1.8
        1.0s   400.00nm          6.2mb
   N    12s     12.10um
                  pP     19 20.50 117kmX
                  sP     19 32.00
                  S      24 00.00
                  ScP    25 11.00
                  ScS    29 10.50
MBC     33.62  22 ePc    19 01.40    0.4
        0.5s   152.00nm          6.1mb
                  pP     19 29.50 128kmX
OPA     35.14 141 e(P)   19 17.00    2.5
KIP     35.38 141 ePc    19 18.75    2.2
                  eS     24 48.40
                  eSS    26 51.72
YKA     35.90  47 eP     19 21.80    1.3
        0.7s   186.80nm          6.1mb
CN2     36.00 279 iPd    19 20.00   -1.6
        5.0s  3600.00nm          6.5mb X
   Z    18s     45.00um          6.3Msz
                  pP     19 42.00   93kmX
                  sP     19 55.00
                  PP     20 47.00
                  eS     24 54.00
                  ScP    25 19.00
                  ScS    29 24.00
PGC     36.18  72 eP     19 22.00   -1.0
        0.7s   120.00nm          5.9mb
MCW     36.53  71 eP     19 26.20    0.2
HIA     36.70 290 ePd    19 26.49   -1.0
                  eS     25 00.47
                  esS    25 42.41
GMW     37.09  73 eP     19 31.00    0.2
SHK     37.15 260 eP     19 31.50    0.2
BMW     37.36  75 eP     19 33.50    0.4
RMW     37.72  73 eP     19 36.20    0.1
LON     38.07  74 iPc    19 38.91   -0.1
                  esPd   20 14.99
                  ePP    21 07.38
                  iPcP   21 47.77
PNT     38.10  69 ePc    19 39.00   -0.2
        0.5s   179.00nm          6.2mb
SHW     38.10  75 eP     19 39.50    0.1
SNY     38.24 277 iPd    19 40.00   -0.4
        5.0s  7400.00nm          6.8mb X
   Z    40s     31.10um          5.8MszX
   N    18s     13.60um
   E    15s      8.90um
                  pP     20 03.00   98kmX
                  sP     20 16.00
                  S      25 20.00
COR     38.30  77 iPc    19 42.07    1.2
DPW     39.62  70 eP     19 51.00   -0.9
FHC     40.01  83 eP     19 57.21    2.1
                  eS     26 31.90
NEW     40.05  69 iPc    19 54.70   -0.7
LBFM    40.97  81 eP     20 04.50    1.3
WDC     41.02  82 iPc    20 04.58    1.2
                  isP    20 41.20
                  iPcP   21 42.80
                  iScP   25 37.80
                  iS     26 34.50
DL2     41.16 275 iPd    20 04.00   -0.5
        6.0s  3900.00nm          6.4mb X
   Z    40s     26.80um          5.8MszX
   N    12s      6.10um
                  pP     20 28.00  103kmX
                  sP     20 43.00
                  PP     21 42.00
                  S      26 07.50
                  sS     26 50.00
                  ScS    29 53.00
MIN     41.74  82 iPc    20 09.83    0.4
                  eScP   25 41.20
                  eS     26 37.00
ORV     42.28  83 iPc    20 14.05    0.4
                  eScP   25 43.30
                  eS     26 38.90
SES     42.41  63 ePc    20 13.40   -1.3
        0.8s   503.00nm          6.4mb
                  pP     20 25.00   42kmX
ZSP     42.80  85 ePc    20 18.95    1.0
BRK     42.85  85 iPc    20 19.00    0.7
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			ipP	20 45.00	113kmX
			isP	20 59.00	
			iPP	21 46.00	
			iPcP	22 06.00	
			eScP	25 46.80	
			iS	26 25.00	
			isS	26 40.00	
			eS	26 42.00	
			eLR	32 30.00	
BKS	42.86	85	iPc	20 18.50	0.1
	Z	20s	17.00um		5.9Msz
	N	20s	22.00um		
	E	20s	20.00um		
			i	20 30.00	
			ipP	20 43.00	105kmX
			isP	20 58.00	
			iPP	21 50.00	
			iPcP	22 07.00	
			epPP	22 20.00	
			iScP	25 46.50	
			iS	26 30.00	
			esS	26 39.00	
			eSS	30 00.00	
			e(ScS)	30 07.00	
			e	30 34.00	
			esSS	30 36.00	
			e	31 20.00	
			eLR	32 30.00	
			e(PKS)	35 31.00	
NRI	42.95	329	iPd	20 18.20	-0.5
			eS	26 24.00	
PCC	43.01	86	iPc	20 19.95	0.4
			eScP	25 46.00	
GCC	43.54	86	iPc	20 24.43	0.5
			eScP	25 49.50	
MHC	43.56	85	iPc	20 25.00	0.7
			eScP	25 49.90	
			iS	26 45.20	
BJI	43.82	280	iPd	20 26.50	0.4
			ipPd	20 50.83	104kmX
			isPc	21 02.91	
			ePcP	22 11.00	
			ePP	22 32.13	
			eScP	25 51.10	
			eS	26 46.36	
			esS	27 29.40	
			eSS	30 06.66	
			eScS	30 11.00	
BUT	43.88	69	ePc	20 26.20	-0.7
			eS	25 52.30	
CMB	43.90	84	iPc	20 26.93	0.0
			esPd	21 04.84	
			ePP	22 09.22	
			eScP	25 46.40	
			eS	26 51.90	
			esS	27 32.18	
HRY	43.92	68	ePc	20 26.20	-0.9
			epP	20 55.70	130kmX
HBMT	43.98	70	ePc	20 26.50	-1.3
SAO	44.05	86	e(P)	20 28.50	0.4
			eScP	25 51.80	
LRM	44.06	70	ePc	20 27.00	-1.4
PRS	44.37	86	ePc	20 31.44	0.7
			eScP	25 53.30	
			eS	26 48.40	
MCMT	44.39	71	iPc	20 29.90	-1.1
LLA	44.46	86	iPc	20 32.26	0.9
			eScP	25 53.70	
			eS	26 48.70	
SXM	44.59	68	ePc	20 31.40	-1.2
BGMT	44.63	70	ePc	20 31.70	-1.2
			epP	21 00.40	126kmX
PRI	44.93	86	iPc	20 36.30	1.0
			eScP	25 55.40	
			iS	26 51.30	
FRI	44.98	84	iPc	20 35.99	0.5
			iScP	25 55.30	
			iS	26 50.00	
FFC	44.99	54	eP	20 34.50	-0.8
	0.5s		76.00nm		5.7mb
LTMT	44.99	71	ePc	20 35.00	-0.9
MEMT	45.04	69	eP	20 35.10	-1.0
BONR	45.23	82	eP	20 38.80	1.0
ZAK	45.39	299	iPd	20 38.50	0.0
			eS	27 00.00	
TIA	45.64	275	P	20 40.30	-0.4
	6.0s		4500.00nm		6.4mb X
	Z	45s	33.30um		5.9MszX
	N	13s	7.10um		
	E	13s	3.20um		
PTI	45.81	73	eP	20 42.30	0.1
TNP	45.81	81	iPc	20 41.80	-0.5
	0.9s		0.17nm		2.8mb X
HHC	46.12	284	Pd	20 45.00	0.4
	6.0s		5700.00nm		6.5mb X
	Z	18s	12.70um		5.9Msz
	N	14s	3.30um		
	E	13s	7.30um		
			pP	21 11.50	114kmX
			PP	22 34.00	
			ScP	25 59.00	
			iS	27 24.00	
			sS	28 08.00	
			ScS	30 29.00	
SYP	46.41	87	eP	20 48.00	1.0
			e	21 17.00	126kmX
SSE	46.55	267	iPd	20 48.00	0.1
	5.0s		5780.00nm		6.6mb X
	Z	20s	8.30um		5.7Msz
	N	12s	3.20um		
	E	11s	1.70um		
			pP	21 11.00	96kmX
			sP	21 26.00	
			PP	22 36.00	
			ScS	30 30.00	
ISA	46.59	85	eP	20 48.00	-0.4
			e	21 15.00	116kmX
SBC	46.63	87	iPc	20 49.43	0.9
			esPd	21 27.17	
			ePP	22 40.16	
			eScP	26 01.78	
			eS	27 31.92	
			i	27 50.46	
			esS	28 18.76	
PJG	46.97	228	eP	20 49.50	-1.9
GUA	47.00	228	eP	20 49.70	-1.9
	0.6s		346.67nm		6.3mb
	Z	18s	13.33um		5.9Msz
CLC	47.03	84	eP	20 53.70	1.9
DUG	47.16	76	eP	20 52.60	-0.3
BTO	47.20	285	iPd	20 54.00	0.9
	5.0s		9100.00nm		6.8mb X
	N	14s	10.70um		
	E	13s	9.60um		
			iS	27 39.00	
			sS	28 18.00	
NJ2	47.33	269	Pd	20 53.80	-0.3
	5.0s		3900.00nm		6.5mb X
	Z	24s	5.00um		5.4MszX
	N	14s	6.50um		
	E	14s	4.90um		
			pP	21 20.00	112kmX
			sP	21 32.00	
			ScS	30 35.00	
BW06	47.52	71	eP	20 54.50	-1.3
	1.0s		150.00nm		5.8mb
TIY	47.55	280	iPd	20 55.20	-0.6
	6.0s		5700.00nm		6.6mb X
	Z	42s	22.90um		5.8MszX
	N	17s	9.70um		
			pP	21 19.00	100kmX
			sP	21 35.00	
			PP	22 51.50	
			S	27 45.50	
			sS	28 27.00	
			ScS	30 36.00	
SBB	47.63	85	eP	20 57.00	0.5
			e	21 24.00	116kmX
PAS	47.78	86	iPc	20 57.60	0.0
			epPc	21 23.92	112kmX
			esPd	21 35.51	
			ePcP	22 24.75	
			ePP	22 45.94	
			ePcS	26 06.00	
			eS	27 45.57	
			eSSS	31 30.00	
MWC	47.80	86	eP	20 58.00	0.0
			e	21 25.00	116kmX
GSC	47.86	84	eP	20 59.20	0.9
DAU	47.96	75	eP	20 59.00	-0.3
CIS	48.13	87	eP	21 01.80	1.5
SCI	48.33	88	eP	21 02.60	0.8
RVR	48.37	86	eP	21 02.00	-0.1
PEC	48.57	86	eP	21 03.50	-0.2
	0.8s		147.19nm		5.9mb
MSU	48.61	77	eP	21 04.00	-0.2
TPC	49.12	85	eP	21 07.00	-0.9
PLM	49.12	86	eP	21 08.00	-0.1
			e	21 36.00	120kmX
KBS	49.14	357	iPc	21 08.10	0.6
CPE	49.29	87	eP	21 10.10	0.9
BAR	49.69	86	eP	21 12.00	-0.3
			e	21 42.00	129kmX
IKP	50.06	86	eP	21 17.10	1.9
ANP	50.57	261	eP	21 18.00	-1.1
GLA	50.58	85	eP	21 19.00	-0.1
			e	21 47.00	119kmX
DAG	51.05	5	iPd+	21 21.30	-0.7
	0.7s		123.29nm		6.0mb
	Z	21s	11.61um		5.9Msz
	N	21s	11.33um		
WHN	51.16	272	Pd	21 22.50	-0.9
	4.0s		5000.00nm		6.8mb X
	Z	16s	3.60um		5.5MszX
	E	13s	5.10um		
			pP	21 48.00	107kmX
			sP	22 01.00	
			S	28 32.00	
			sS	29 18.00	
			SS	32 00.00	
GOL	51.90	72	eP	21 28.40	-0.9
	Z	18s	4.33um		5.5Msz
GLD	51.96	72	ePc	21 29.80	0.2
	1.5s		0.41nm		3.2mb X
	Z	18s	6.44um		5.7Msz
XAN	52.11	279	Pd	21 28.30	-2.3
	6.0s		3100.00nm		6.5mb X
	N	12s	5.40um		
	E	10s	3.30um		
			pP	21 55.00	112kmX
			sP	22 09.00	
			ScP	26 24.00	
			S	28 38.00	
			sS	29 25.00	
			ScS	31 04.00	
QZH	52.54	263	iPd	21 34.00	0.2
	4.0s		6100.00nm		6.9mb X
			pP	21 58.00	99kmX
			sP	22 11.00	
			sS	29 38.00	
FRB	53.29	31	ePc	21 37.50	-1.3
	0.4s		143.00nm		6.3mb
LZH	53.81	284	ePd	21 43.14	-0.1
	6.0s		3130.00nm		6.5mb X
	Z	34s	25.10um		6.0MszX
	N	12s	6.55um		
	E	11s	4.72um		
			ipPd	22 08.64	106kmX
			esPc	22 20.56	
			ePcP	22 45.38	
			ePP	23 48.15	
			ePPP	24 22.91	
			e	25 31.95	
			eScP	26 27.96	
			eS	29 10.10	
			isS	29 51.76	
			ScS	31 20.00	
GTA	53.98	290	iPd	21 43.50	-1.0
	5.0s		3260.00nm		6.6mb X
	Z	20s	15.90um		6.1Msz
	E	14s	12.10um		
			pP	22 08.00	101kmX
			sP	22 21.00	
			PcP	22 44.50	
			PP	23 50.00	
			ScP	26 33.20	
			PcS	26 39.40	
			S	29 12.00	
			sS	29 58.00	
			ScS	31 20.40	
ALO	54.41	77	iPc+	21 46.70	-1.1
	1.0s		137.50nm		5.9mb
	Z	18s	4.81um		5.6Msz
			epP	22 14.50	116kmX
			e	22 27.00	
CVP	56.05	255	ePd	22 00.00	0.6
KEV	56.86	349	iP	22 04.60	0.0
			i	22 32.50	116kmX
			e	29 42.00	
			e	30 32.00	
			e	32 30.00	

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GZH		57.14	266	Pc	22	07.00	-0.1	CLE		63.85	56	iP	22	51.60	-0.9	PKI		70.80	290	P	23	36.00	-0.6
		5.0s	3700.00nm			6.7mb X		PPR		64.12	252	ePc	22	54.00	-0.4	NST		70.87	271	iPc	23	37.00	0.3
	Z	42s	14.00um			5.7MszX		KAF		64.20	346	eP	22	53.00	-1.4	GKN		70.92	291	P	23	36.40	-0.7
	N	13s	2.00um					WVLY		64.62	53	eP	22	56.10	-1.3	DMN		70.95	290	P	23	37.00	-0.4
	E	13s	4.80um					RGS		64.99	354	eP	23	00.00	0.5	DSH		71.26	309	iPd	23	39.00	0.1
			pP	22	32.00	102kmX		RSNY		65.00	49	ePc	22	58.00	-1.8					eS	32	48.00	
			sP	22	45.00					1.0s	0.11nm			2.7mb X		EDR		71.47	1	ePc	23	38.60	-1.1
			S	29	46.00				Z	20s	5.56um			5.8Msz		EDU		71.84	1	ePc	23	41.20	-0.7
CD2		57.42	280	eP	22	07.40	-1.7	FRU		65.14	308	iP	23	00.00	-0.8					e	24	10.70	117kmX
		4.0s	900.00nm			6.1mb X						iS	31	37.00		EBH		72.14	1	ePc	23	42.80	-0.8
	Z	15s	10.70um			6.1MszX		HBVT		65.82	48	eP	23	02.80	-2.3			0.9s	140.00nm			5.8mb	
	E	14s	8.30um					LSA		65.86	288	P	23	06.30	0.2					e	24	12.70	119kmX
			pP	22	32.00	100kmX						iS	31	41.00		EAB		72.18	2	ePc	23	43.70	-0.2
			sP	22	46.00			NUR		65.98	346	iP	23	04.60	-1.2			0.8s	115.00nm			5.7mb	
			S	29	55.00					0.7s	50.70nm			5.6mb						e	24	13.00	116kmX
WMQ		57.78	301	ePd	22	11.29	-0.3					i	23	33.60	117kmX	EDI		72.47	1	ePc	23	45.00	-0.5
		6.0s	4600.00nm			6.7mb X						e	31	38.00						e	24	14.20	116kmX
	Z	25s	10.30um			5.8MszX						e	32	30.00		ESY		72.48	1	ePc	23	45.10	-0.5
	N	16s	58.50um									e	33	40.00						e	24	14.30	116kmX
			epPd	22	37.12	105kmX		CBM		66.04	44	ePc	23	04.70	-1.7	KHT		72.50	272	eP	23	46.60	0.2
			esPc	22	48.04			RSCP		66.04	63	eP	23	04.50	-2.1	EAU		72.54	1	ePc	23	45.60	-0.4
			ePP	24	19.57				Z	20s	6.78um			5.9Msz				0.9s	142.00nm			5.8mb	
			ePPP	24	43.08			AFI		66.10	170	ePc	23	06.02	-1.1					e	24	15.30	118kmX
			eS	30	01.41							eS	31	46.11		EBL		72.62	1	ePc	23	45.90	-0.6
			esS	30	45.45							isS	32	32.13		EKA		73.06	1	P	23	50.00	1.0
			eScS	31	46.36			SCP		66.22	54	iPc	23	06.09	-1.6			1.0s	66.50nm			5.4mb	
			esScS	32	39.67			BNH		66.48	47	eP	23	07.70	-1.6	ESK		73.07	1	ePc	23	48.20	-0.9
			eSS	33	58.94							epP	23	37.00	119kmX			1.0s	80.00nm			5.5mb	
			esSS	34	35.08			PMG		66.93	214	eP	23	11.00	-1.3					e	24	17.00	114kmX
BAG		57.79	255	eP	22	11.60	-0.4	MIM		66.96	45	eP	23	10.60	-1.7	NNT		73.48	269	eP	23	54.20	2.1
TRO		57.83	352	eP	22	11.00	-0.4					epP	23	40.30	120kmX	PPT		74.51	149	iP	23	58.70	0.8
GYA		58.81	274	iPd	22	17.60	-1.3	KSH		67.01	305	iPd	23	13.50	0.6			1.3s	205.00nm			5.8mb	
		4.0s	3500.00nm			6.8mb X				6.0s	6200.00nm			6.7mb X						ipP	24	26.70	110kmX
	Z	36s	7.80um			5.6MszX			E	14s	27.40um					PPN		74.52	149	iP	23	58.40	0.5
	N	16s	3.20um									pP	23	40.00	105kmX			1.3s	160.00nm			5.7mb	
	E	16s	4.80um									S	32	00.00						ipP	24	26.20	109kmX
			sP	22	59.00			HYA		67.07	356	iP	23	12.40	-0.3	PAE		74.59	149	iP	23	59.10	0.8
			S	30	13.00			NAO		67.15	354	P	23	12.10	-1.2			1.3s	250.00nm			5.9mb	
QCP		58.89	253	eP	22	17.00	-2.3			0.7s	61.90nm			5.6mb						ipP	24	27.40	111kmX
SOD		59.16	348	iP	22	19.90	-0.8	MNI		67.47	241	eP	23	16.00	0.2	TVO		74.81	149	iP	24	00.60	0.9
			i	22	48.80	119kmX		UPP		67.50	350	iP	23	13.80	-1.6			1.3s	260.00nm			5.9mb	
MEO		59.21	72	iPc	22	20.50	-1.0					i	23	43.30	119kmX					ipP	24	28.80	110kmX
TUL		60.05	69	e(P)	22	24.30	-2.9					iS	32	00.00		BRN		75.29	351	eP	24	03.00	1.1
		0.6s	255.00nm			6.5mb		BLA		67.60	58	eP	23	15.40	-1.1	WIT		75.39	355	eP	24	03.50	1.0
			i	22	26.70	8kmX				0.7s	0.06nm			2.6mb X						e	24	33.00	116kmX
			i	22	35.80			HFS		67.62	352	eP	23	14.00	-2.2	ETA		75.63	3	iPc	24	03.90	0.1
SCH		60.47	37	ePc	22	28.70	-1.2			0.6s	44.20nm			5.6mb				0.9s	101.00nm			5.6mb	
		0.4s	84.00nm			6.1mb			Z	20s	5.95um			5.8Msz		MKS		75.94	242	ePd	24	07.00	0.9
MAP		60.64	247	iPd	22	30.00	-1.3					LR	47	14.00		ECP		76.14	3	iPc	24	06.60	-0.1
CCM		61.12	64	iPc	22	32.46	-2.0	ASK		67.79	357	eP	23	17.60	0.4			0.9s	125.00nm			5.7mb	
			esPd	23	10.03			HRV		67.95	49	iPc	23	17.11	-1.4	DBN		76.17	356	eP	24	08.00	1.1
			eScP	27	03.10							esPd	23	56.17						epP	24	38.00	118kmX
			eS	30	37.83							eS	32	03.96						eS	33	40.00	
			eScS	32	07.88							eScS	33	02.23						esS	34	30.00	
			esScS	32	55.23			PNJ		67.96	51	iP	23	17.30	-1.3					eSS	38	38.00	
FVM		61.63	64	eP	22	35.50	-2.4					pP	23	46.60	118kmX					e	44	11.00	
CGP		61.75	246	ePc	22	38.00	-0.9	GMTN		67.96	51	iP	23	17.60	-1.0	VAL		76.19	6	iP	24	08.10	1.1
AKU		61.96	8	iP	22	40.60	0.9	ODD1		68.30	356	iP	23	20.30	-0.2					S	33	36.00	
		0.7s	123.29nm			6.0mb		KONO		68.40	354	eP	23	22.01	1.0	WTS		76.20	355	iPc	24	07.00	0.0
			i	23	09.10	116kmX						epPd	23	50.15	112kmX					e	24	36.00	114kmX
KMI		62.20	276	ePd	22	41.23	-0.8	CBN		68.43	55	eP	23	20.00	-1.5	CLL		76.41	351	iPc	24	07.10	-1.2
		6.0s	2900.00nm			6.5mb X						e	24	10.00	213kmX			1.9s	130.00nm			5.4mb	
	Z	46s	28.80um			6.1MszX		LQE		68.57	271	eP	23	21.00	-1.7		Z	21s	4.00um			5.7Msz	
			ipPd	23	06.56	101kmX		KKM		68.58	252	ePc	23	22.10	-0.8					i	24	55.90	203kmX
			esPc	23	19.47					1.2s	262.10nm			6.0mb						eS	33	40.00	
			eS	30	58.26			OBN		68.79	338	iPc	23	22.00	-1.5	KSP		76.51	349	eP	24	08.50	-0.3
			esS	31	45.43					1.5s	455.00nm			6.1mb						i	24	38.00	116kmX
QIZ		62.33	266	P	22	41.50	-1.2		Z	16s	11.00um			6.2MszX						i	27	02.00	
		5.0s	2800.00nm			6.5mb X						iS	32	17.00						i	27	34.50	
			pP	23	08.00	107kmX		PRM		68.92	62	eP	23	23.30	-1.3					e	33	40.00	
			sP	23	21.00			TSM		68.97	249	ePd	23	26.00	0.9					eS	34	42.00	
			S	31	02.00			CHG		69.23	274	iPd	23	25.50	-1.2					e	51	46.70	
DAV		62.38	244	eP+	22	42.00	-1.0			1.5s	515.28nm			6.1mb		MTN		76.56	228	eP	24	09.20	-0.3
ELF		62.72	54	P	22	44.60	-0.4					eS	32	32.00		BRG		76.74	350	iPc	24	09.40	-0.7
ELC		62.79	64	eP	22	43.40	-2.1	CHTO		69.23	274	ePd	23	25.56	-1.1			1.7s	75.00nm			5.2mb	
OLY		62.81	67	eP	22	43.30	-2.4					epPd	23	51.72	103kmX		Z	18s	4.00um			5.8Msz	
DLA		62.83	55	P	22	45.75	0.0					esPc	24	04.13			N	18s	4.00um				
LDN		62.89	54	P	22	45.30	-0.8	JSC		69.37	61	eP	23	26.00	-1.3		E	18s	1.50um				
SVO		63.03	201	eP	22	47.00	-0.2	VUN		69.67	180	eP	23	30.60	1.4					iPcP	24	23.50	
REY		63.11	10	iP	22	48.30	1.1	SVA		69.78	180	eP	23	31.10	1.3					epP	24	38.00	112kmX
			e	23	17.60	120kmX		AAI		70.04	235	eP	23	31.90	0.3					eS	33	44.00	
JAY		63.13	224	ePd	22	46.70	-1.3	GUN		70.27	290	P	23	33.00	-0.4					ePS	34	36.00	
		1.0s	173.10nm			5.9mb		BDT		70.38	273	eP	23	33.10	-0.6					e	52	13.00	
HNR		63.28	201	eP	22	48.00	-0.8			1.1s	233.00nm			5.9mb						e	54	44.00	
			e(S)	31	06.00			SGS		70.60	61	eP	23	34.00	-0.8	KRA		76.79	346	ePc	24	09.70	-0.7
GAC		63.69	49	eP	22	49.00	-2.3					epP	24	03.70	119kmX			1.0s	79.00nm			5.5mb	
		0.5s	82.00nm			5.9mb		KKN		70.71	290	P	23	35.40	-0.5		Z	22s	6.60um			5.9Msz	

23d 01h

E 22s 8.00um
i 24 11.60 6kmX
i 24 23.90
eS 33 46.00
SNG 77.13 265 eP 24 13.20 0.4
1.7s 676.92nm 6.2mb
eS 33 51.00
MOX 77.19 352 iPc 24 12.00 -0.6
1.7s 110.00nm 5.4mb
Z 18s 2.70um 5.6Msz
N 17s 3.20um
E 20s 5.90um
epP 24 42.00 118kmX
eS 33 50.00
BNS 77.20 355 iPc 24 12.50 -0.2
1.2s 185.00nm 5.8mb
i 24 41.30 112kmX
MAIO 77.40 314 iPd 24 14.90 0.8
1.6s 341.21nm 5.9mb
e 27 08.00
eS 33 59.00
ENN 77.47 355 iPc 24 14.00 -0.1
1.3s 133.00nm 5.6mb
e 24 47.50 133kmX
HOF 77.50 351 eP 24 14.40 0.1
PRU 77.55 350 eP 24 14.00 -0.6
1.9s 73.40nm 5.2mb
Z 14s 2.30um 5.7MszX
N 18s 2.60um
E 16s 3.50um
e 24 27.10
pP 24 39.60 98kmX
S 34 50.00
sS 35 42.00
SPC 77.59 346 eP 24 13.70 -1.4
UZH 77.80 344 iPc 24 16.50 0.5
GRF 78.17 352 iPc 24 18.40 0.3
1.7s 211.00nm 5.7mb
Z 21s 3.00um 5.6Msz
e(pP) 24 47.50 114kmX
IAS 78.20 340 eP 24 15.00 -3.2X
ABH 78.26 354 eP 24 18.07 -0.5
KHC 78.50 350 P 24 20.50 0.6
1.5s 62.00nm 5.2mb
Z 20s 3.00um 5.6Msz
N 19s 2.60um
E 19s 6.50um
e 24 34.80 50kmX
e 24 52.50
BMR 78.52 343 ePd 24 23.00 3.0X
WET 78.56 351 eP 24 20.00 -0.2
1.8s 174.00nm 5.6mb
Z 19s 6.00um 5.9Msz
SIM 78.79 335 ePd 24 22.00 0.6
eS 34 50.00
QUE 78.85 305 iPd- 24 22.70 0.4
eS 34 13.00
PSZ 78.88 346 eP 24 22.50 0.5
IPM 78.90 263 ePc 24 22.80 0.3
1.2s 237.80nm 5.9mb
e 24 50.10 106kmX
ZST 79.00 348 eP 24 22.60 0.0
i 24 36.70 49kmX
i 25 19.40
VKA 79.04 348 eP 24 23.00 0.2
5.0s 1306.00nm 6.0mb X
Z 17s 2.50um 5.6MszX
i 24 52.80 117kmX
i 25 26.60
i 26 11.40
i 26 47.60
i 29 35.30
LR 01 50.00
GWF 79.16 354 P 24 39.26 15.8X
SRO 79.21 347 eP 24 23.50 -0.2
e 34 12.60
STU 79.25 353 iPc 24 23.50 -0.4
1.5s 116.67nm 5.5mb
BUD 79.43 346 e(P) 24 25.00 0.1
KMR 79.50 350 iP+ 24 25.60 0.3
ipP 24 56.60 122kmX
iPP 27 31.90
KGM 79.51 260 ePc 24 27.80 2.0
VRI 79.63 341 ePc 24 30.00 4.0X
FLN 79.65 360 eP 24 25.80 -0.2
1.2s 157.70nm 5.7mb
Z 18s 5.25um 5.9Msz

CDF 79.74 354 eP 24 26.40 -0.3
CDF 79.74 354 P 24 41.17 14.5X
CVO 79.79 341 ePc 24 31.50 4.6X
LDF 79.82 359 eP 24 26.60 -0.3
0.5s 40.10nm 5.5mb
ECH 79.95 354 P 24 40.92 13.3X
BHG 79.97 350 iPc 24 28.00 0.2
1.7s 100.00nm 5.4mb
CFR 79.98 339 eP 24 29.00 1.2
VITF 80.01 355 P 24 42.58 14.7X
GRR 80.03 360 eP 24 28.00 0.0
1.0s 116.00nm 5.6mb
MLR 80.15 341 ePd 24 34.00 5.0X
TIH 80.17 347 iP 24 29.80 1.0
HAU 80.20 355 eP 24 28.80 -0.2
Z 22s 8.00um 6.0Msz
FEL 80.23 354 P 24 42.17 12.9X
SLE 80.31 353 ePc 24 29.10 -0.5
MOF 80.31 354 P 24 44.11 14.4X
TNR 80.33 342 ePd 24 30.00 0.3
BSF 80.35 355 eP 24 29.50 -0.4
UZD 80.37 346 eP 24 30.50 0.6
ISR 80.37 341 eP 24 34.50 4.5X
LPF 80.38 360 eP 24 30.20 0.3
1.1s 100.10nm 5.5mb
WATA 80.48 351 iPc 24 30.50 -0.2
i 24 44.00 46kmX
i 25 00.10
CMP 80.55 342 iPc 24 30.00 -0.9
KBA 80.55 350 iPc 24 31.30 0.2
1.0s 277.00nm 6.0mb
i 24 46.00 51kmX
i 24 59.00
i 25 04.60
i 25 42.40
i 34 36.70
TLB 80.58 339 eP 24 35.00 4.0X
ZLA 80.60 353 ePc 24 31.00 -0.2
SOTA 80.63 351 iPc 24 31.40 0.0
1.5s 155.00nm 5.6mb
i 25 00.90 115kmX
i 25 38.30
i 26 40.80
i 34 37.10
SAX 80.75 353 ePc 24 32.10 -0.2
TIM 80.79 344 iPd 24 34.00 1.9
OGA 80.99 352 eP 24 33.70 0.2
LOR 81.05 357 eP 24 33.30 -0.2
1.4s 106.75nm 5.5mb
Z 19s 4.75um 5.9Msz
FVI 81.09 350 P 24 36.00 2.4
LLS 81.16 353 ePc 24 34.20 -0.1
BUC1 81.23 341 ePc 24 28.50 -5.9X
TAB 81.24 324 iP- 24 37.00 2.2
i 25 03.00 99kmX
e 35 02.00
OSS 81.25 352 ePc 24 35.00 0.2
SSF 81.27 357 eP 24 34.70 0.1
1.5s 114.90nm 5.5mb
LBF 81.33 356 eP 24 34.70 -0.3
0.7s 13.25nm 4.9mb
PTJ 81.41 348 eP 24 35.10 -0.4
LJU 81.44 349 e(P) 24 30.00 -5.5X
e 24 34.60 15kmX
WRA 81.44 222 P 24 34.00 -1.8
0.8s 233.20nm 6.0mb
WRA 81.44 222 P 24 49.00 13.2X
0.7s 27.70nm
WRA 81.44 222 P 24 51.00 15.2X
0.7s 19.30nm
ZAG 81.49 348 iPc 24 36.00 0.3
VDL 81.50 353 ePc 24 36.40 0.3
VOY 81.53 349 eP 24 38.40 2.3
AVF 81.55 357 eP 24 36.30 0.3
1.8s 250.30nm 5.7mb
SMF 81.68 357 eP 24 36.90 0.2
1.3s 124.55nm 5.6mb
VVI 81.73 350 P 24 39.00 1.9
CTI 81.75 351 P 24 39.00 1.7
CEY 81.76 349 e(P) 24 37.00 -0.2
BGF 81.80 357 eP 24 37.50 0.1
1.3s 88.45nm 5.4mb
BEO 81.81 345 iP 24 37.30 -0.1
i 24 51.70 50kmX
MFF 81.81 359 eP 24 37.80 0.4
1.1s 73.25nm 5.4mb
TRI 81.86 349 eP 24 37.30 -0.4

i 26 30.00 514kmX
eS 34 58.00
iSP 35 48.00
iSS 40 38.00
iSSS 44 00.00
VBY 81.89 348 ePc 24 33.50 -4.3X
e 24 38.10 15kmX
MMK 82.05 354 ePc 24 39.60 0.6
DIX 82.06 354 ePc 24 39.60 0.5
TCF 82.08 358 eP 24 39.00 0.1
0.7s 9.90nm 4.7mb
EMS 82.10 354 ePc 24 39.40 0.2
LSF 82.14 358 eP 24 39.30 0.2
1.1s 94.00nm 5.5mb
MAF 82.14 357 eP 24 39.40 0.2
1.4s 104.55nm 5.5mb
RIY 82.15 349 iP 24 39.70 0.5
VAI 82.17 353 P 24 41.10 1.8
MDI 82.19 352 P 24 40.60 1.2
KAS 82.21 334 eP 24 43.00 3.3X
BRS 82.26 203 iPc 24 41.00 1.1
i 25 10.00 112kmX
eS 34 15.00
SAL 82.29 352 P 24 42.00 2.1
RMQ 82.46 207 iPc 24 41.20 0.3
i 25 11.40 117kmX
ORX 82.46 354 P 24 40.32 -0.7
ORO 82.47 354 P 24 43.00 2.0
HYB 82.63 289 iPc 24 42.50 0.3
0.8s 380.70nm 6.3mb
i(PcP) 24 48.00
ipP 25 09.00 101kmX
isP 25 21.50
iPP 27 38.00
iS 34 48.00
LPL 82.66 354 eP 24 43.10 0.9
0.9s 18.00nm 5.0mb
LPG 82.68 354 eP 24 43.20 0.8
1.8s 168.30nm 5.6mb
LSD 82.69 354 P 24 43.39 1.0
RSP 82.99 354 P 24 43.60 -0.1
RJF 83.08 358 eP 24 44.20 0.2
1.7s 132.35nm 5.6mb
Z 18s 5.00um 5.9Msz
BNI 83.13 354 Pc 24 47.90 3.4X
BOB 83.21 352 P 24 47.40 2.6X
RRL 83.25 354 P 24 46.16 0.9
DMK 83.28 339 eP 24 45.00 -0.1
BHB 83.30 354 P 24 43.60 -1.6
CAF 83.45 358 eP 24 46.50 0.5
1.8s 280.55nm 5.9mb
LFF 83.46 359 eP 24 46.60 0.7
1.5s 261.15nm 5.9mb
PCP 83.51 353 P 24 45.75 -0.6
DOI 83.64 354 P 24 48.10 1.1
CKI 83.64 353 Pc 24 48.90 2.0
PZZ 83.65 354 P 24 46.98 -0.1
ITU 83.67 338 iPd 24 48.00 1.0
MME 83.67 351 P 24 50.40 3.0X
LPO 83.71 358 eP 24 47.50 0.3
1.4s 169.90nm 5.8mb
RSM 83.76 350 P 24 50.70 3.2X
HRT 83.78 337 iP 24 48.10 0.4
ROB 83.80 353 P 24 47.19 -0.6
BDI 83.81 352 P 24 50.00 2.1
SFI 83.83 351 P 24 51.10 3.3X
GBZT 83.86 337 eP 24 48.50 0.4
FIN 83.86 353 P 24 47.19 -0.9
STV 83.89 354 P 24 46.68 -1.6
ENR 83.90 354 P 24 46.27 -2.1
BBTK 83.91 334 iPc 24 48.00 -0.5
FIR 84.03 351 eP 24 50.00 1.2
iS 34 54.00
i 35 52.00
YLV 84.09 337 iP 24 49.20 -0.1
CRE 84.11 350 P 24 52.00 2.6X
ARV 84.14 350 Pc 24 52.20 2.8X
PII 84.16 352 P 24 51.00 1.5
IMI 84.18 353 P 24 49.44 -0.3
KER 84.23 322 ePd 24 51.00 0.8
SBF 84.26 354 eP 24 50.20 0.1
0.8s 44.35nm 5.4mb
SKO 84.41 343 iP 24 50.90 0.1
1.5s 269.00nm 5.9mb
Z 22s 5.48um 5.9Msz
N 23s 10.43um
E 21s 9.70um

			i	25	21.50	118kmX	DHR	90.06	316	ePd	25	18.20	-0.1				i	34	28.00			
			i	28	43.00		UPA	90.08	75	iP+	25	18.00	-0.5				i	35	23.00			
			i	35	08.00			Z 20s		2.66um			5.7Msz	PDCR	130.22	52	ePKP	31	10.70	-17.9X		
			i	35	56.50		PORP	90.13	60	eP	25	18.00	-0.8				e	31	25.70			
			i	36	21.00		WARB	90.23	225	eP	25	19.00	0.1				e	31	59.00			
			i	40	30.00		LPR	90.33	59	eP	25	19.00	-0.8				e	32	17.10			
			i	47	06.00		SJG	90.35	60	eP	25	19.50	-0.3				ePP	33	42.00			
			i	50	04.50		EHOR	90.52	3	eP	25	20.00	-0.3				eSKP	34	38.00			
			LR	00	38.00		CPD	90.53	59	eP	25	20.00	-0.7				e	35	34.90			
CDR	84.55	355	ePd	24	52.80	1.3	CNB	90.66	204	iPc	25	22.80	2.1	NPA	131.17	304	ePKP	31	38.00	7.6X		
			e	25	18.90	99kmX				i	25	53.80	118kmX		0.7s		70.00nm					
ASS	84.59	350	Pc	24	54.20	2.4	EVAL	90.69	4	eP	25	20.00	-1.1				i	33	58.00			
FRF	84.61	354	eP	24	52.20	0.4	NGZ	90.81	183	eP	25	21.30	-0.1				i	34	49.50			
	1.3s		83.05nm			5.5mb	ECOG	91.11	2	eP	25	22.00	-1.2				i	35	44.50			
LRG	84.74	355	eP	24	53.00	0.6	MAL	91.63	3	iPc	25	24.00	-1.4	PPD	131.36	72	ePKP	31	30.40	-0.2		
	1.2s		92.25nm			5.6mb				iS	36	12.00					e	31	34.50			
	Z 18s		4.75um			5.9Msz				iPS	37	16.00		PTZ	134.28	313	iPKPd	31	35.60	-0.8X		
EMON	84.83	5	eP	24	58.00	5.1X	EJIF	91.87	3	eP	25	27.00	0.4				i	32	07.00			
VAY	84.83	342	iP	24	52.70	-0.2	PRNI	92.12	329	eP	25	29.00	1.2				i	33	56.00			
	1.0s		43.00nm			5.3mb	MNG	92.25	183	P	25	27.10	-0.7				i	34	53.90			
			i	25	23.00	117kmX		0.7s		48.00nm			5.9mb				i	35	50.00			
LMR	84.85	354	eP	24	53.40	0.5				e	25	55.60	107kmX	VAO	134.64	68	ePKP	31	24.40	-12.5X		
	0.7s		30.85nm			5.3mb				e	26	07.90					e	31	36.10			
ASPA	84.95	221	eP	24	52.20	-1.4	WEL	92.94	183	eP	25	41.00	10.1X				e	32	07.50			
	0.8s		171.10nm			6.0mb				(SKS)	35	52.00					e	34	54.90			
	Z 22s		4.30um			5.8Msz				(S)	36	26.00		KMZ	135.89	321	iPKPc	31	40.00	0.5X		
			ipP	25	22.60	117kmX	RYD	92.95	318	ePd	25	33.00	1.2				i	34	22.00			
			iS	35	05.00		HQL	93.10	329	ePd	25	35.10	2.8X				i	34	59.90			
			isS	35	53.10		AYN	93.16	328	ePd	25	35.00	2.5	LPA	136.57	90	iPKP+	31	40.40	0.3		
RKT	84.97	138	iP	24	56.00	2.4	ADE	93.42	212	eP	25	36.00	2.6X				pPKP	32	22.00			
	1.2s		100.00nm			5.6mb	HLW	93.68	332	eP	25	36.00	1.1				iPP	34	24.00			
			ipP	25	23.60	105kmX				eS	35	57.00					ipPP	35	00.80			
DST	85.18	337	eP	24	54.00	-0.8	TOO	93.80	206	eP	25	37.00	1.9	SPA	141.78	180	iPKPd	31	44.70	-4.1X		
AOU	85.21	349	P	24	57.40	2.5X	BADA	93.81	329	ePd	25	37.00	1.5		1.0s		115.00nm					
MNS	85.27	350	Pc	24	56.30	1.2	IFR	94.81	3	iP	25	39.50	-0.9		Z 20s		1.13um			5.6Msz		
BTH	85.29	359	ePc	24	50.00	-5.2X	AVE	94.92	5	eP	25	40.50	-0.2				i	32	28.20			
			sP	25	26.00					i	26	10.50	114kmX	BFT	144.70	306	iPKPc	31	54.00	-1.2		
			sPcP	25	41.00		TOV	95.14	67	eP	25	43.50	1.6		0.8s		3462.69nm					
			PP	28	26.00		SDV	95.38	68	eP	25	45.70	2.5	CRZF	145.57	258	ePKP	32	06.00	10.3X		
			pPP	28	49.00		BMG	95.43	71	iPd	25	44.00	0.7				ePP	36	06.00			
			eSKS	35	15.00		HOBC	95.78	75	iPc	25	44.16	-0.8				eS	46	27.00			
			iS	35	22.00		CLMC	95.90	76	ePc	25	45.07	-0.5				eSP	48	12.00			
STS	85.31	5	eP	24	57.20	1.9	ANCC	96.01	77	eP	25	45.14	-0.7				eSS	55	42.00			
ALT	85.34	336	eP	24	55.70	0.1	BUGC	96.07	76	ePc	25	46.35	0.1	SLR	145.61	308	ePKPc	31	57.73	1.1		
OHR	85.35	344	eP	24	56.00	0.4	HOOC	96.18	76	ePc	25	46.62	-0.3				epP'df	32	25.87			
	1.7s		130.00nm			5.6mb	SALC	96.54	77	ePc	25	48.45	0.0				ePP	35	18.75			
			i	25	25.60	114kmX	DIAC	96.59	76	ePc	25	48.22	-0.4	EVA	145.86	306	iPKPc	31	58.00	0.9		
			i	25	36.00		BOG	96.80	74	iP	25	50.00	0.2		0.8s		********	nm				
EPF	85.38	359	eP	24	55.30	-0.4				ePP	29	50.00					i	32	28.50			
	1.3s		57.75nm			5.4mb	SILC	96.98	77	ePc	25	51.17	0.5	MAW	146.04	218	ePKP	31	57.20	1.4		
PGF	85.45	352	eP	24	56.40	0.2	PURC	97.26	77	ePc	25	52.52	0.4		1.0s		368.00nm					
	0.7s		60.65nm			5.7mb	TIO	97.29	5	iP	25	51.00	-0.6	AIA	146.14	138	ePKP	31	58.00	2.0X		
COO	85.53	203	iPd	24	57.80	1.5				i	26	25.50	133kmX				eS	01	32.20			
	1.1s		135.00nm			5.8mb	CUMC	97.42	79	ePc	25	53.35	0.5	KSR	146.39	310	iPKPc	31	54.50	-3.4X		
DUI	85.77	348	P	25	00.50	2.8X	ZOBO	116.83	82	PKP	31	03.60	0.0				i	32	18.00			
SDI	85.80	349	P	24	59.50	1.7	LPB	117.04	82	PKP	31	04.00	0.2	WIN	147.44	327	ePKP	32	01.00	1.3		
RMP	85.83	350	P	25	00.20	2.3				LR	08	02.00			0.8s		1261.19nm					
ERUA	85.88	4	eP	24	58.00	-0.1	CNCB	117.33	82	PKPc	31	05.00	0.4				i	32	34.50			
RDP	85.88	350	P	25	00.40	2.2	CCH	118.89	81	PKP	31	05.50	-1.7	SEK	148.09	307	iPKPc	32	02.00	1.4		
SHI	86.12	315	eP	25	01.00	1.3	NAI	120.33	315	iPKPd	31	12.00	2.1X		1.5s		********	nm				
KHL	86.18	336	eP	24	59.00	-0.8	SIV	120.89	76	PKP	31	09.40	-1.3				i	32	22.50			
BCK	86.72	335	iP	25	02.70	0.3	TIC	121.53	4	PKP	31	10.98	-1.0	BLF	149.44	308	iPKPc	32	01.60	-1.1		
SGO	86.75	348	P	25	04.70	2.4	KIC	121.82	4	PKP	31	11.16	-1.3		0.9s		********	nm				
PTO	87.05	6	eP	25	03.00	-0.8	LIC	121.94	5	PKP	31	11.08	-1.6				i	32	37.00			
			iS	35	33.00		KUK	122.07	359	ePKP	31	16.00	3.0X	HVD	151.01	307	iPKPc	32	06.50	1.5		
ELL	87.57	335	eP	25	08.00	1.4	KOGH	122.17	359	ePKP	31	12.00	-1.2		0.9s		1445.38nm					
EBR	87.58	359	eP	25	08.00	1.6	SHGH	122.33	359	ePKP	31	11.00	-2.4X				i	32	40.00			
			e	35	20.00		LEGH	122.61	359	ePKP	31	12.50	-1.5	POF	152.53	317	iPKPd	32	08.00	1.1		
			e	35	36.00		WEGH	122.66	359	ePKP	31	12.50	-1.6		0.6s		600.00nm					
			e	36	42.00		SOB1	126.49	52	ePKP	31	11.10	-10.5X				i	32	43.00			
GUD	87.73	2	eP	25	07.00	-0.3				e	31	23.50		CER	156.23	313	ePKP	32	12.50	0.5		
CMS	88.00	208	iPd	25	10.00	1.8				e	31	55.50		TUH	156.24	314	ePKP	32	12.00	0.1		
			i	25	39.40	112kmX				e	33	20.20			1.5s		6666.67nm					
EPLA	88.25	4	eP	25	12.00	2.3				e	34	26.90					i	32	42.50			
TOL	88.50	2	eP	25	09.00	-1.8	ROCH	127.21	98	ePKP	31	22.30	-0.4		S.D. = 1.1		on 450 of 497 obs.					
			i(pP)	25	40.00	119kmX	JACH	127.27	97	ePKP	31	21.50	-1.2	----------								
			ePP	29	10.00		PEL	127.52	98	iPKPc	31	23.80	0.7	% JAN 23, 1991 01h 15m 38.18± 0.89s								
			iS	35	46.00			1.0s		7.00nm				46.955 N ± 8.7km 1.411 E ± 5.8km								
			isS	36	38.00		LNV	127.63	99	ePKP	31	22.50	-0.6	DEPTH = 10.0km (geophysicist)								
			ePS	36	50.00		TACH	127.72	98	ePKP	31	23.00	-0.4	FRANCE							(538)	
			eSS	41	28.00		SAN	127.75	98	ePKP	31	22.50	-1.0	ML 1.8 (LDG).								
BHL	88.61	330	P	25	10.00	-1.6	FCH	127.89	98	ePKP	31	25.50	1.4									
			S	35	26.00		PCH	127.95	98	ePKP	31	24.00	0.1	LSF	0.71	173	Pg	15	52.10	-0.1		
KOD	88.93	285	eP	25	14.30	0.7	BAO	128.19	63	ePKPd	31	25.00	0.1				Sg	16	02.60			
SOI	89.08	346	P	25	14.00	0.4	IKZ	130.09	314	iPKPc	31	17.50	-11.1X				Sn	16	03.70			
MBL	89.11	233	eP	25	13.00	-0.8				i	31	49.00		TCF	0.87	140	Pg	15	54.70	-0.1		
	0.6s		97.00nm			6.1mb				i	33	30.00					Sg	16	06.60			

23d 01h

BGF	1.06	111	Pg	15 57.80	-0.4	
			Sg	16 11.30		
MAF	1.08	132	Pg	15 58.80	0.2	
			Sg	16 13.80		
MFF	1.13	252	Pg	15 59.20	-0.1	
			Sg	16 15.80		
AVF	1.34	96	Pg	16 02.20	-0.7	
			Sg	16 19.10		
SSF	1.44	85	Pg	16 03.50	-0.8	
			Sg	16 22.00		
SMF	1.70	100	Pg	16 09.00	1.0	
			Sg	16 30.60		
LOR	1.70	78	Pg	16 08.00	-0.1	
			Sg	16 28.80		
LBF	1.76	88	Pg	16 09.70	0.8	
			Sg	16 31.00		

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

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* JAN 23, 1991 01h 30m 57.16± 2.22s
43.319 N ±10.0km 0.996 W ±14.5km
DEPTH = 10.0km (geophysicist)
PYRENEES (378)
ML 2.2 (LDG), MD 2.0 (STR).

BOH	0.22	183	Pg	31 01.61	-0.3	
			Sg	31 03.41		
MADF	0.22	143	Pg	31 01.96	0.1	
			Sg	31 03.91		
ATE	0.32	137	Pg	31 03.20	-0.5	
			Sg	31 06.36		
ISSF	0.33	153	Pg	31 06.14	2.2	
ESCF	0.39	128	Pg	31 04.67	-0.5	
OGE	0.41	111	Pg	31 05.60	0.0	
			Sg	31 11.11		
LHE	0.49	146	Pg	31 05.62	-1.5	
JAU	0.54	121	Pg	31 07.36	-0.7	
EPF	1.02	106	Pg	31 18.10	1.6	
			Sg	31 30.40		
LFF	2.05	37	Pg	31 39.00	7.0X	
			Sg	32 07.50		
LPO	2.08	48	Pg	31 39.60	7.0X	
			Sg	32 08.10		
CAF	2.73	53	Pn	31 41.40	-0.4	
			Sn	32 13.30		
			Sg	32 27.40		

S.D. = 1.3 on 10 of 12 obs.

? JAN 23, 1991 02h 27m 31.73± 5.15s
4.315 N ±29.7km 76.976 W ±35.7km
DEPTH = 33.0km (normal)
COLOMBIA (103)
MD 2.6 (UVC).

CLMC	0.60	136	ePc	27 44.20	0.3	
			eS	27 52.10		
ANCC	0.80	172	eP	27 46.79	0.2	
BUGC	0.83	120	eP	27 46.94	-0.2	
			eS	27 56.90		
HOBC	0.84	87	ePc	27 47.27	0.0	
			eS	27 57.50		
HOQC	0.91	158	ePc	27 47.98	-0.4	
			eS	27 58.80		
DIAC	1.28	143	ePc	27 53.67	0.1	

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

JAN 23, 1991 05h 39m 09.52± 0.65s
7.246 S ± 6.1km 76.284 W ±10.8km
DEPTH = 135.8 ± 9.1 km
4.3mb (3 obs.)
NORTHERN PERU (111)

NNA	4.74	187	iP	40 20.50	0.2	
	0.4s		5.93nm			
			eS	41 01.00		
PT10	4.85	188	e(P)	40 23.50	1.9	
			eS	41 07.00		
TUNG	6.18	339	eP	40 39.80	-0.2	
VC1	6.90	342	eP	40 49.20	-0.7	
GGP	7.39	342	eP	40 57.60	0.9	
YANA	7.44	342	eP	40 57.30	0.0	
CAYA	7.47	347	eP	40 56.80	-0.9	
ZOBO	12.00	139	P	41 56.30	-1.6	
LPB	12.22	140	P	42 00.00	-0.5	
			i	42 11.00		
CNCB	12.50	140	P	42 04.00	-0.3	
			i	42 14.00		
CCH	14.12	136	P	42 30.50	5.5X	
SDV	16.99	19	e(P)	43 01.80	1.2	
SIV	17.24	122	P	43 02.00	-1.6	
LLAV	19.97	28	iP	43 33.90	0.4	
PPD	28.21	124	eP	44 51.30	-0.4	
SOB1	35.07	96	eP	45 53.60	2.0	
			e	45 55.30		
PDCR	36.96	101	eP	46 09.10	1.7	
ALQ	50.71	328	eP	47 57.50	-0.1	
	0.9s		4.83nm		4.3mb	
FRB	71.03	4	eP	50 14.00	-0.1	
YKA	75.50	343	eP	50 38.50	-1.6	
	0.5s		1.20nm		3.9mb	
INK	85.22	342	eP	51 31.00	-0.5	
MBC	87.03	351	ePd	51 41.10	0.9	
	0.6s		7.00nm		4.8mb	
			pP	52 13.00	123kmX	
DAG	89.95	11	eP	51 43.80	-10.3X	
	0.6s		5.33nm			
WRA	139.52	228	PKP	58 23.00	-0.5	
	1.1s		1.60nm			
GKN	152.57	39	PKP	58 53.20	8.4X	
KKN	153.12	38	PKP	58 54.40	8.7X	
DMN	153.14	39	PKP	58 54.40	8.6X	
PKI	153.36	38	PKP	58 54.40	8.2X	
GUN	153.40	37	PKP	58 55.20	9.0X	
GBA	153.41	74	PKPd	58 53.80	7.8X	
	0.5s		2.10nm			

S.D. = 1.1 on 22 of 30 obs.

JAN 23, 1991 05h 44m 08.96± 0.84s
38.347 N ± 6.5km 22.178 E ±10.4km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 3.0 (ATH).

EVR	0.64	333	ePn	44 21.00	-0.8	
ITM	1.18	190	ePn	44 31.00	0.0	
NEO	1.26	40	ePn	44 31.50	-0.9	
VLS	1.26	263	ePb	44 36.50	4.1X	
ATH	1.27	107	ePb	44 33.00	0.5	
VLI	1.73	159	ePn	44 39.00	-0.3	
KZN	1.98	351	ePb	44 44.50	1.5	
OHR	2.96	339	ePn	45 01.50	4.6X	

S.D. = 1.2 on 6 of 8 obs.

JAN 23, 1991 06h 07m 08.27± 0.13s
24.733 N ± 3.1km 95.232 E ± 2.5km
DEPTH = 115.2km (23 depth phases)
5.3mb (83 obs.)
BURMA (296)
Felt at Shillong, India.

LSA	6.14	325	iPc	08 39.70	1.3	
			S	09 40.80		
CHG	6.83	149	iPc	08 48.00	0.6	
	1.0s		215.00nm		5.6mb	
			eS	10 04.00		
KMI	6.83	85	Pd	08 51.50	3.9X	
	4.0s		900.00nm		5.6mb X	
			S	10 09.00		
BDT	8.24	154	eP	09 06.10	-0.5	
	0.9s		255.50nm		5.9mb	
GUN	8.97	293	P	09 15.50	-1.3	
PKI	9.27	290	P	09 18.90	-1.9	
KKN	9.44	291	P	09 21.20	-1.7	
DMN	9.54	290	P	09 22.10	-2.2	
CD2	9.73	49	Pd	09 26.60	-0.1	
	0.6s		200.00nm		6.1mb	
GKN	10.04	291	P	09 29.20	-1.8	
NST	10.12	152	eP	09 33.00	1.2	
KHT	10.39	162	iPc	09 36.30	0.9	
GYA	10.46	78	iPd	09 37.00	0.5	
	1.2s		400.00nm		6.1mb	
			S	11 36.00		
PCT	11.57	149	iPc	09 52.50	1.5	
	0.4s		6.00nm		4.7mb	
LZH	13.53	31	P	10 15.30	-1.4	
	1.0s		210.00nm		5.5mb	
	Z 16s		1.21um		4.5MszX	
QIZ	14.70	110	eP	10 31.60	-0.1	
	1.0s		300.00nm		5.5mb	
			eS	13 17.50		
			sS	13 23.00		
XAN	15.10	49	P	10 34.00	-2.7	
	0.8s		50.00nm		4.8mb	
			sP	11 11.00		
GTA	15.14	14	eP	10 35.60	-1.6	
	4.0s		420.00nm		5.1mb X	
	Z 18s		0.90um		4.2MszX	
			eS	13 23.00		
			sS	13 35.20		
			SS	13 43.40		
NDI	16.57	288	iPc	10 57.00	1.9	
	0.8s		111.94nm		5.2mb	
GZH	16.64	92	iPc	10 58.00	2.0	
HYB	17.17	248	ePd	11 00.50	-2.1	
	0.8s		369.20nm		5.7mb	
			i	11 04.00		
			i	11 12.50		
			iS	14 00.50		
WHN	17.89	67	eP	11 11.50	0.2	
	0.5s		200.00nm		5.6mb	
			ScP	19 04.50		
SNG	18.20	163	eP	11 14.80	-0.2	
	1.0s		144.00nm		5.2mb	
			eS	14 37.00		
BSI	19.13	180	iPd	11 22.50	-2.5	
TIY	19.55	44	eP	11 28.00	-1.4	
			sP	12 05.00		
			S	15 01.00		
WMO	20.02	344	iPd	11 35.50	1.4	
	0.8s		100.00nm		5.2mb	
			PP	11 55.00		
			S	15 08.50		
BTO	20.08	34	P	11 34.00	-0.9	
	N 11s		0.70um			
	E 11s		0.70um			
			SS	15 45.00		
GBA	20.10	240	Pd	11 33.10	-1.9	
	0.6s		176.10nm		5.6mb	
IPM	20.80	164	ePc	11 41.90	-0.3	
	1.0s		93.50nm		5.1mb	
			e	12 27.90		
POO	20.80	257	iPd	11 42.60	0.4	
	1.0s		246.00nm		5.5mb	
HHC	21.08	36	eP	11 45.00	0.1	
	1.0s		100.00nm		5.1mb	
	Z 14s		1.00um		4.4MszX	
			S	15 34.00		
KSH	21.88	317	eP	11 56.00	3.1X	
TIA	22.01	54	eP	11 54.60	0.5	
			S	15 47.00		
KOD	22.21	233	eP	11 58.30	1.8	
BJI	23.28	44	Pd	12 07.50	1.2	
			esP	12 44.00		
			eS	16 12.00		
SSE	23.76	69	Pd	12 11.60	0.5	
	1.0s		580.00nm		6.0mb	
	Z 18s		0.40um		3.9Msz	
			S	16 16.00		
			SS	17 08.00		
SZP	24.56	102	iPd	12 21.00	2.2	
BAG	25.10	104	eP	12 25.00	0.9	
QUE	25.64	289	eP	12 31.20	2.2	
	1.0s		410.00nm		5.9mb	
			eS	17 17.10		
DL2	26.39	51	P	12 35.80	0.2	
	1.0s		150.00nm		5.5mb	
PGP	26.69	110	iPd	12 43.60	5.1X	
PPR	26.85	120	iPc	12 39.00	-1.0	
SNY	29.01	47	Pd	12 58.20	-1.0	
CN2	31.14	45	P	13 17.40	-0.5	
			epP	13 40.00	100kmX	
			eS	18 12.00		
MAIO	32.70	299	eP	13 34.00	2.2	
MDJ	34.17	46	eP	13 43.50	-0.8	
TSRJ	36.62	63	P	14 06.20	1.1	
IIDJ	38.18	64	P	14 18.60	0.3	
MTMJ	38.20	62	P	14 18.90	0.5	
MAT	38.52	62	eP	14 20.00	-1.0	
	0.9s		54.62nm		5.4mb	
CHJJ	39.11	63	P	14 26.40	0.5	
NIIJ	39.22	61	P	14 26.50	-0.3	
KAKJ	40.07	63	eP	14 32.40	-1.3	
MRRJ	41.52	53	eP	14 45.90	0.3	
ASAJ	42.96	51	eP	14 57.60	0.3	
HOOJ	43.13	54	eP	15 00.40	1.7	
KUSJ	44.27	53	eP	15 07.60	-0.3	
MBL	51.51	150	iPc	16 03.40	-0.8	
	0.4s		21.00nm		5.4mb	
KNA	51.86	137	iPc	16 05.80	-1.1	
	0.7s		173.00nm		6.1mb	
			e	17 17.00	340kmX	
BHL	52.12	295	P	16 09.00	0.0	

AYN	52.57	288	ePc	16	13.60	1.5	VOY	66.80	311	eP	17	48.90	-0.7	RMQ	72.55	131	iPc	18	25.20	0.5
DSI	52.66	292	eP	16	13.50	0.7				e	18	17.40	115km		0.6s	63.00nm			5.6mb	
HOL	53.31	289	ePc	16	18.80	1.2	WET	66.84	315	iPc	17	49.70	0.0	LMR	72.58	310	eP	18	24.80	0.1
RMN	53.46	291	eP	16	19.00	0.2		0.6s	41.00nm			5.5mb			1.1s	53.70nm			5.3mb	
BADA	53.49	288	iPc	16	20.40	1.5	KBA	66.96	313	iPc	17	49.90	-0.8	LRG	72.65	310	eP	18	25.40	0.3
BBTK	53.91	302	iPc	16	23.00	1.0		0.5s	14.20nm			5.1mb			0.7s	40.80nm			5.3mb	
YLV	56.44	303	iP	16	40.20	-0.1				ipP	18	17.70	111km	CDR	72.99	311	ePc	18	27.10	0.0
ELL	56.44	299	iP	16	40.00	-0.4	SGO	67.00	305	P	17	52.70	1.9	LOR	73.15	315	eP	18	27.90	-0.1
KHL	56.55	301	iP	16	40.00	-1.1	SOI	67.03	303	P	17	52.90	1.9		0.7s	12.70nm			4.8mb	
DMK	57.54	305	eP	16	47.00	-0.8	BHG	67.13	313	iPc	17	51.40	-0.2	LBF	73.16	314	eP	18	28.00	-0.1
VRI	57.96	310	ePc	16	55.00	4.2X		0.9s	64.00nm			5.5mb			0.7s	16.00nm			4.9mb	
WRA	58.49	136	P	16	53.00	-1.7	HOF	67.25	316	iPc	17	52.20	0.0	SSB	73.33	313	P	18	29.01	-0.1
	0.9s	109.30nm			5.9mb			0.5s	19.00nm			5.2mb		SMF	73.36	314	eP	18	29.20	0.0
KAF	58.60	329	eP	16	55.30	0.3	MOX	67.34	317	iP	17	53.00	0.2		0.7s	30.30nm			5.2mb	
	0.4s	21.00nm			5.5mb			1.0s	19.00nm			4.9mb		SSF	73.45	315	eP	18	29.70	0.0
WARB	59.02	147	iPc	16	57.70	-0.6	DUI	67.37	307	Pd	17	54.70	1.5		0.9s	49.15nm			5.3mb	
	0.3s	25.00nm			5.8mb		NPA	67.43	240	eP	18	11.00	17.2X	AVF	73.63	314	eP	18	30.80	0.1
PVL	59.18	307	iPc	17	00.00	0.8	ATN	67.46	303	P	17	54.70	0.9		0.9s	36.05nm			5.2mb	
SOD	59.20	335	iP	16	59.90	0.8	GRF	67.79	316	iPc	17	56.60	1.0	BGF	74.04	314	eP	18	33.20	0.1
NUR	59.26	327	iP	17	00.00	0.5		0.9s	35.00nm			5.3mb			0.8s	11.40nm			4.7mb	
KDZ	59.30	305	eP	17	00.00	-0.1				e(pP)	18	24.80	113km	MAF	74.33	314	eP	18	35.40	0.6
KEV	59.50	338	eP	17	02.00	0.9	SDI	67.83	307	P	17	56.90	0.8		1.0s	31.00nm			5.1mb	
RZN	59.81	305	iPc	17	04.00	0.2	WATA	68.08	313	iPc	17	56.40	-1.2	TCF	74.54	314	eP	18	36.60	0.5
MUN	59.85	159	eP	17	02.00	-1.8				i	18	17.00			0.9s	32.75nm			5.1mb	
	0.8s	49.00nm			5.6mb					ipP	18	23.00	105km	EKA	74.60	324	Pd	18	38.10	2.0
MMB	60.56	305	iPd	17	08.00	-0.7	MNO	68.10	303	P	17	59.90	1.9		0.8s	18.20nm			4.9mb	
ASPA	60.99	139	eP	17	10.50	-1.3	SOTA	68.35	313	iPc	17	58.30	-1.0	CAF	75.10	313	eP	18	40.00	0.7
	0.6s	90.50nm			5.9mb			0.5s	29.90nm			5.4mb			0.9s	22.95nm			5.0mb	
			ipP	17	52.30	179kmX				i	18	20.90		LDF	75.24	317	eP	18	40.10	0.1
			eS	25	06.50					ipP	18	23.80	100kmX		1.0s	34.00nm			5.1mb	
KKB	61.00	306	eP	17	10.00	-1.7				isP	18	40.00		RJF	75.33	313	eP	18	41.80	1.2
NWAO	61.05	159	iPd	17	10.40	-1.6	OGA	68.55	313	iPc	17	59.80	-0.9		0.9s	32.75nm			5.1mb	
	0.6s	18.00nm			5.2mb		SFI	68.69	310	P	18	03.90	2.7X	FLN	75.40	317	eP	18	41.00	0.1
VAY	61.46	305	eP	17	13.50	-1.3	OSS	69.18	313	ePc	18	04.00	-0.5	GRR	75.77	317	eP	18	43.10	0.1
BZS	61.55	310	eP	17	19.00	3.7X	SAL	69.19	312	P	18	06.60	2.3		0.6s	9.90nm			4.8mb	
SPC	62.06	314	i(P)	17	18.10	-0.8	MME	69.43	310	P	18	09.10	3.0	LPO	75.77	313	eP	18	43.80	0.7
			e	17	45.40	111km	SAX	69.57	314	ePc	18	06.40	-0.6		0.7s	23.15nm			5.1mb	
KRA	62.17	315	ePc	17	18.90	-0.5	VDL	69.68	313	ePc	18	07.20	-0.4	BRS	75.91	129	iPd	18	44.00	-0.1
	0.3s	48.00nm			6.0mb		LWI	69.69	258	iP	18	08.50	0.5	MFF	75.96	315	eP	18	44.20	0.1
SKO	62.19	306	iPc	17	18.80	-0.9	LLS	69.90	313	ePc	18	08.10	-0.8		1.0s	14.00nm			4.7mb	
	0.6s	63.00nm			5.8mb		WTS	69.97	319	iPc	18	09.60	0.7	LFF	75.98	313	eP	18	45.00	0.8
OIS	62.36	132	iPc	17	20.00	-1.0		0.8s	31.00nm			5.2mb			1.0s	34.00nm			5.1mb	
UPP	62.76	326	iPc	17	23.10	0.0	SLE	70.00	314	ePc	18	08.80	-0.5	LPF	76.01	317	eP	18	44.80	0.5
OHR	62.81	305	eP	17	21.50	-2.3	ABH	70.06	317	eP	18	09.71	0.1		0.9s	22.95nm			5.0mb	
	1.2s	66.00nm			5.5mb		ZLA	70.14	314	ePc	18	09.50	-0.7	BCAO	76.08	268	iPc	18	45.00	-0.3
			e	17	52.50	128kmX	BOB	70.15	311	P	18	13.00	2.7X		0.7s	96.00nm			5.7mb	
PVY	63.16	307	iPc	17	26.12	-0.1	VAI	70.31	312	P	18	12.20	1.1				ic	19	15.90	122km
IVA	63.17	307	iPc	17	26.07	-0.2	CDF	70.62	315	eP	18	12.80	-0.3	KRI	76.13	244	iPc	18	44.90	-0.7
PLE	63.46	308	iPc	17	28.69	0.5		0.6s	19.85nm			5.1mb					i	19	15.50	121km
UZD	63.51	311	eP	17	28.70	0.4	MMK	70.81	313	ePc	18	14.20	-0.3	AKU	76.73	337	iPc	18	49.90	1.9
SRO	63.51	313	eP	17	28.10	-0.1	PCP	70.83	311	P	18	13.22	-1.1		0.9s	33.61nm			5.1mb	
			i	17	55.60	111km	ENN	70.83	318	iPc	18	14.20	0.1	EPF	76.94	311	eP	18	49.40	-0.3
FORR	63.60	149	eP	17	28.00	-0.9		0.5s	15.00nm			5.1mb		MBC	77.01	8	ePc	18	49.00	-0.4
	0.4s	32.00nm			5.6mb		ORX	70.91	312	P	18	12.81	-2.1		0.6s	11.00nm			4.8mb	
TTG	63.71	307	iPc	17	28.99	-0.6	PGF	71.07	309	eP	18	15.60	-0.3	COO	77.27	132	iPc	18	52.00	0.4
NKY	63.83	307	iPc	17	30.26	-0.4		0.6s	46.90nm			5.5mb		ETA	77.27	322	eP	18	53.20	2.0
BDV	64.05	307	iPc	17	32.09	0.2	BSF	71.09	315	eP	18	15.50	-0.4	ECP	77.57	322	eP	18	53.80	1.0
BRY	64.15	307	iPc	17	32.22	-0.5		0.8s	14.80nm			4.9mb		FBA	78.44	23	eP	18	56.30	-1.1
ZST	64.25	313	e(P)	17	32.60	-0.5	FIN	71.15	311	P	18	15.27	-1.0		0.8s	11.40nm			4.7mb	
			e	18	00.60	113km	DIX	71.17	313	iPc	18	17.00	0.3	PMR	79.79	26	ePc	19	03.60	-1.1
			e	23	02.80		HAU	71.33	315	eP	18	17.10	-0.2	BFT	80.51	236	iPc	19	10.50	1.1
HCY	64.26	307	iPc	17	32.37	-0.9		0.8s	16.10nm			4.9mb			0.6s	800.00nm			6.7mb	X
KSP	64.38	316	iPc	17	34.30	0.4	DAG	71.36	347	iPd	18	15.90	-1.0				i	19	40.00	115km
	0.7s	38.00nm			5.4mb			0.8s	32.09nm			5.2mb		INK	80.60	16	ePc	19	08.60	-0.3
			i	18	01.80	111km	ROB	71.36	311	P	18	17.22	-0.4				pP	19	38.00	114km
HFS	64.71	327	eP	17	35.60	-0.3	IMI	71.46	310	P	18	18.04	-0.1	EVIA	80.63	308	eP	19	10.30	0.5
	0.6s	73.80nm			5.8mb		EMS	71.49	313	ePc	18	18.50	0.0	TOA	80.65	25	eP	19	09.70	0.3
Z	17s	0.24um			4.5MszX		LSD	71.52	312	P	18	18.86	0.1	GUD	80.96	311	eP	19	12.40	0.8
		LR	45	24.00			RSP	71.53	312	P	18	17.11	-1.6	ENIJ	81.10	307	eP	19	12.70	0.5
PTJ	65.42	311	eP	17	39.20	-1.5	HNR	71.61	110	eP	18	19.00	-0.4	EVA	81.68	236	iPd	19	17.00	1.5
HVAR	65.60	308	iPc	17	40.60	-1.2	BHB	71.62	311	P	18	16.29	-2.8X		0.9s	3411.76nm			7.1mb	X
PRU	65.62	316	P	17	42.00	0.1	ENR	71.69	311	P	18	17.11	-2.5				i	19	47.50	119km
			e	18	10.50	115km	STV	71.75	311	P	18	18.14	-1.8	EBAN	81.74	308	eP	19	16.10	0.6
BRG	65.85	317	iPc	17	43.50	0.2	LPG	71.78	312	eP	18	20.50	0.2	SLR	81.87	237	iPc	19	17.60	1.2
	1.1s	38.00nm			5.2mb			0.7s	38.05nm			5.3mb			0.6s	5466.67nm			7.5mb	X
VBY	65.98	311	ePd	17	44.70	0.5	LPL	71.78	312	eP	18	20.60	0.3				i	19	48.00	118km
			e	18	14.20	120km		0.6s	36.05nm			5.4mb		EPLA	82.54	311	eP	19	20.90	1.3
			e	18	44.30		SBF	71.79	310	eP	18	19.80	-0.3	EHOR	82.93	308	eP	19	22.10	0.5
NAO	66.04	328	P	17	43.90	-0.4		0.8s	33.60nm			5.2mb		KSR	83.00	238	iPc	19	20.00	-2.3
	0.7s	26.70nm			5.3mb		RSL	71.81	312	P	18	20.15	-0.2		1.0s	150.00nm			5.8mb	
CLL	66.35	317	iPc	17	46.30	-0.2	PZZ	71.83	311	P	18	17.63	-2.8X				i	19	49.50	114km
	0.7s	21.00nm			5.2mb		RRL	71.92	312	P	18	20.50	-0.6	DZM	83.33	118	iPc	19	26.00	2.1
			i	18	13.90	111km	BNI	71.96	312	Pd	18	22.90	1.7	SEK	83.74	235	iPc	19	26.50	0.5
LJU	66.37	311	e(P)	17	46.00	-0.7	ADE	72.27	144	eP	18	21.60	-1.3		0.7s	1102.74nm			6.9mb	X
			e	18	15.00	117km		1.0s	90.00nm			5.5mb		IFR	84.72	304	iPc	19	32.50	1.5
KHC	66.40	315	eP	17	47.50	0.6	FRF	72.42	310	eP	18	23.80	0.0	BLF	85.23	235	iPd	19	33.00	-0.4
			e	18	15.50	113km		0.6s	16.25nm			5.0mb			1.0s	••••••nm			7.9mb	X

23d 06h

		i	20	04.50	122km	
HVD	86.52	234 iPd	19	39.00	-0.7	
	0.6s	466.67nm			6.6mb X	
		i	20	10.50	122km	
WIN	89.19	245 iPd	19	53.80	1.1	
	1.0s	800.00nm			6.8mb X	
		i	20	24.50	117km	
YKA	89.87	13 eP	19	53.40	-1.7	
	0.5s	1.00nm			4.2mb X	
POF	90.08	238 eP	19	58.00	1.5	
FRB	90.90	353 eP	20	00.00	0.3	
TUH	92.53	234 iPd	20	09.00	1.3	
	0.6s	253.33nm			6.7mb X	
KIC	96.36	280 P	20	25.92	0.3	
	0.8s	11.00nm			5.4mb	
TIC	96.49	280 P	20	26.46	0.2	
LIC	96.67	280 P	20	27.24	0.2	
SPA	114.59	180 iPKPc	25	35.20	-0.7	
	0.8s	27.08nm				
		i	25	51.70		
PDCR	135.27	277 ePKP	26	13.50	-3.2X	
SOB1	135.51	282 ePKP	26	12.20	-5.0X	
		e	26	19.50		
		e	29	39.10		
TOV	142.71	335 ePKP	26	26.00	-4.4X	
BAO	144.41	278 ePKPc	26	32.00	-1.3	
VAO	145.46	265 ePKPc	26	35.40	0.5	
		e	26	54.30		
		e	27	04.60		
PPD	149.22	268 ePKP	26	41.10	0.3	
		i	26	46.00		
		i	26	50.70		
CLMC	150.46	343 ePKP	26	43.08	-0.1	
HOOC	150.87	343 ePKP	26	44.31	0.4	
ANCC	150.89	344 ePKPc	26	44.17	0.5	
DIAC	150.93	342 ePKPc	26	43.29	-0.6	
SALC	151.37	343 ePKP	26	44.60	0.1	
SILC	151.54	342 ePKP	26	45.79	0.7	
PURC	151.90	342 ePKP	26	46.58	0.8	
SIV	156.17	287 PKP	26	50.40	-0.5	
		i	27	19.80		
LPB	162.41	294 PKP	26	59.00	0.8	
		i	27	47.00		
CNCB	162.45	293 PKP	26	59.00	0.6	
		i	27	47.80		

S.D. = 1.1 on 239 of 252 obs.

JAN 23, 1991 06h 34m 21.39± 0.74s
43.406 N ± 5.5km 5.451 E ± 5.8km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
MD 2.9 (STR).

GELF	0.03	217 Pg	34	23.10	-0.3	
BERF	0.20	118 Pg	34	26.20	0.4	
PUYF	0.22	55 Pg	34	25.79	-0.4	
TREF	0.22	347 Pg	34	25.92	-0.3	
PRAF	0.45	333 Pg	34	31.11	0.6	
VILF	0.49	23 Pg	34	31.22	-0.1	
TAVF	0.49	64 Pg	34	31.38	0.0	
DOI	1.70	49 P	34	54.70	3.4X	
		eSn	35	18.90		
BNI	1.87	28 P	34	59.20	5.4X	
		eSn	35	25.50		

S.D. = 0.5 on 7 of 9 obs.

? JAN 23, 1991 07h 58m 51.77± 9.58s
15.969 N ±51.7km 60.958 W ±65.3km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)
ML 2.1 (FDF).

DEG	0.36	344 iP	59	00.35	0.0	
		S	59	07.70		
SFG	0.36	321 eP	59	00.25	-0.1	
SEG	0.68	309 eP	59	05.01	0.1	
PAG	0.70	275 eP	59	05.20	0.0	
		S	59	14.80		

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

JAN 23, 1991 08h 26m 54.08± 0.83s
37.741 N ± 7.9km 22.705 E ± 8.3km
DEPTH = 10.0km (geophysicist)
SOUTHERN GREECE (368)
ML 2.7 (ATH).

ATH	0.83	74 eP	27	11.50	1.3	
ITM	0.84	228 eP	27	14.60	4.4X	
VLI	1.04	170 eP	27	13.00	-0.7	
EVR	1.37	329 eP	27	22.00	2.7X	
NEO	1.62	14 eP	27	22.80	0.1	
VLS	1.73	285 eP	27	25.30	0.9	
VAM	2.62	152 eP	27	32.60	-4.6X	
KZN	2.66	344 eP	27	38.50	0.6	
PLG	2.69	12 eP	27	36.00	-2.2	
OHR	3.68	337 ePn	27	52.20	0.0	
SOI	5.27	276 P	28	14.60	-0.1	
		eSn	29	09.00		

S.D. = 1.3 on 8 of 11 obs.

? JAN 23, 1991 08h 54m 56.24± 0.76s
45.686 N ±15.4km 26.673 E ±17.1km
DEPTH = 130.0km (geophysicist)
ROMANIA (358)

VRI	0.19	11 iPc	55	14.00	0.4	
CVO	0.37	291 iPc	55	14.50	-0.5	
MLR	0.55	249 iPc	55	15.50	-0.5	
ISR	0.56	189 eP	55	24.50	8.5X	
CLI	0.96	26 iPc	55	18.50	-0.6	
TLB	1.46	138 iPd	55	24.00	-0.2	

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

• JAN 23, 1991 08h 58m 58.23± 0.77s
45.937 N ± 8.0km 14.432 E ± 6.0km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MD 2.3 (TRI), 2.2 (LJU).

LJU	0.13	34 iPgd	59	01.60	0.3	
		iSg	59	03.60		
CEY	0.20	181 iPgd	59	03.00	0.4	
		iSg	59	06.30		
VOY	0.39	284 iPg	59	06.30	0.1	
		eSg	59	12.70		
TRI	0.52	244 iPgc	59	08.40	-0.4	
		iSg	59	16.60		
VBY	0.72	127 ePg	59	19.10	6.7X	
		iSg	59	24.30		
PTJ	1.07	91 iPgd	59	18.00	-0.4	
		eSg	59	31.20		

S.D. = 0.5 on 5 of 6 obs.

& JAN 23, 1991 09h 25m 23.50s
37.946 N 88.860 W
DEPTH = 5.0km
SOUTHERN ILLINOIS (488)
<SLM-P>. mbLg 3.0 (NEIS). Felt (V) at Whittington; (IV) at Logan and West Frankfort; (III) at Benton, Buckner, Orient and Sesser.

BPIL	0.33	40 P	25	29.80	-0.4	
NHIL	0.55	92 P	25	33.00	-1.4	
ELC	0.72	204 P	25	36.60	-1.3	
WSIL	0.83	48 P	25	38.80	-1.2	
DON	1.15	228 P	25	44.60	-0.8	
FVM	1.24	272 P	25	45.40	-1.6	
NMMO	1.46	202 P	25	50.90	0.3	
NRMS	1.57	202 P	25	53.10	1.1	
OGTN	1.60	198 P	25	53.40	0.9	
ACTN	1.64	193 P	25	53.50	0.5	
UTMA	1.65	183 eP	25	53.66	0.4	
MFTN	1.83	194 P	25	56.10	0.2	
DRTN	1.85	193 iPd	25	56.76	0.6	
CCM	1.89	274 P	25	57.40	0.7	
MILT	2.10	177 iP	26	00.16	0.5	
LRDO	2.46	217 eP	26	05.38	0.5	
AFAR	2.80	231 eP	26	09.66	-0.1	
PWLA	3.03	168 P	26	11.80	-1.2	
OLY	3.22	221 P	26	15.70	0.1	
RSCP	3.53	131 P	26	20.50	0.3	
GBTN	4.37	120 P	26	39.20	7.1	
TKL	4.68	118 P	26	47.00	10.6	

22 obs. associated

JAN 23, 1991 10h 35m 00.72± 0.26s
39.935 N ± 2.7km 24.054 E ± 2.5km
DEPTH = 10.2 ± 1.8 km
4.0mb (7 obs.)
AEGEAN SEA (365)
ML 3.8 (ATH). Felt on the Khalkidhiki Peninsula, Greece.

PLG	0.64	313 ePb	35	12.50	-1.1	
NEO	0.90	226 ePg	35	17.50	-0.4	
SOH	1.03	329 iPc	35	20.00	-0.3	
THE	1.09	310 iPd	35	19.70	-1.4	
		iS	35	34.20		
LIT	1.21	278 iPd	35	22.60	-0.7	
SRS	1.23	344 ePd	35	23.80	0.2	
AGG	1.62	236 ePc	35	28.60	-0.8	
RDO	1.66	43 ePb	35	29.70	-0.2	
MMB	1.67	352 iPd	35	30.00	-0.1	
VAY	1.79	321 iPn	35	31.30	-0.5	
	0.7s	3852.00nm				
		iPg	35	33.40		
		i	35	45.00		
		iSn	35	55.80		
		iSg	35	58.30		
		Lg	35	58.50		
KZN	1.79	283 ePn	35	31.80	-0.1	
RZN	1.82	16 iPc	35	33.00	0.5	
PRK	1.85	111 ePn	35	34.00	1.4	
ATH	1.98	188 ePn	35	34.00	-0.6	
KDZ	2.00	31 iPc	35	34.00	-0.9	
KKB	2.07	339 iPd	35	36.00	0.2	
FNA	2.22	293 iPc	35	37.80	-0.3	
PLD	2.22	13 eP	35	39.00	0.9	
DIM	2.39	27 iPc	35	41.00	0.5	
VTS	2.73	347 iPg	35	46.00	0.5	
OHR	2.75	296 iPn	35	45.10	-0.6	
	0.8s	254.00nm				
		i	36	19.30		
		i	36	22.30		
		i	36	28.30		
		Lg	36	41.10		
SKO	2.84	317 iPnd	35	47.00	0.1	
	0.5s	142.00nm				
		iPb	35	49.70		
		iPg	35	53.00		
		i	36	07.50		
		iSn	36	18.10		
		i	36	19.50		
		iSg	36	26.20		
IZM	2.93	121 iPn	35	49.40	1.2	
EDC	2.95	81 ePn	35	49.00	0.6	
BNT	2.99	81 iPn	35	47.20	-1.9	
APE	3.09	158 ePn	35	49.00	-1.4	
JMB	3.17	36 iPc	36	01.00	9.5X	
ITM	3.22	212 ePn	35	52.50	0.2	
VLS	3.22	238 ePn	35	53.00	0.7	
KEK	3.28	267 ePn	35	54.00	0.8	
VLI	3.33	196 ePn	35	52.50	-1.4	
DMK	3.38	55 iPn	35	54.30	-0.3	
PVL	3.42	16 iPc	35	53.00	-2.0	
DST	3.54	94 iPn	35	57.20	0.3	
ISK	3.98	72 ePn	36	12.00	9.0X	
PVY	4.06	312 ePn	36	04.60	0.2	
YLV	4.12	79 iPn	36	16.70	11.6X	
GBZT	4.21	77 eP	36	27.30	21.0X	
IVA	4.29	315 ePn	36	07.50	0.0	
		eSn	37	20.00		
HRT	4.38	77 eP	36	20.00	11.2X	
TTG	4.39	306 ePn	36	09.70	0.8	
KHL	4.55	109 ePn	36	09.70	-1.5	
DRA	4.74	2 eP	36	14.00	0.1	
SRE	4.77	353 eP	36	30.00	15.8X	
ALT	4.77	99 ePn	36	15.20	0.8	
NKY	4.77	309 ePn	36	15.00	0.6	
PSN	4.85	38 eP	36	14.00	-1.4	
PLE	4.87	316 ePn	36	15.40	-0.4	
HCY	4.89	303 ePn	36	16.50	0.6	
BRY	5.09	307 ePn	36	19.00	0.0	
MTUR	5.34	8 eP	36	26.00	3.6X	
CMP	5.38	7 iPc	36	23.00	0.1	
TLB	5.51	31 eP	36	29.00	4.3X	
ISR	5.51	19 eP	36	30.00	5.1X	
TNR	5.72	2 ePc	36	28.00	0.3	
MLR	5.72	13 eP	36	32.00	4.1X	
BZS	5.95	343 ePc	36	31.00	0.1	
DEV	6.00	352 ePc	36	12.00	-19.7X	
CVO	6.09	14 eP	36	04.00	-28.8X	
VRI	6.25	17 eP	36	40.00	4.9X	
SOI	6.50	256 P	36	38.50	-0.2	
		eSn	37	46.30		
HVAR	6.56	302 iPn	36	37.10	-2.5	
BBTK	6.70	88 eP	37	09.00	27.4X	
BMR	7.75	357 ePd	37	03.00	6.9X	
CEI	7.83	352 eP	36	27.00	-30.3X	
PTJ	8.41	318 eP	36	56.90	-8.7X	

VBY	8.54	314	eP	37	06.30	-0.9
			e(Sn)	37	14.50	
KHC	11.84	324	eP	37	54.00	1.5
			Sg	38	03.00	
LPG	13.87	299	eP	38	23.10	3.2X
	0.9s		8.20nm		4.6mb	
SMF	16.15	301	eP	38	50.00	0.7
LBF	16.17	302	eP	38	50.50	1.0
	0.9s		6.55nm		3.8mb	
LOR	16.34	303	eP	38	51.20	-0.4
	0.9s		6.55nm		3.8mb	
AVF	16.52	301	eP	38	54.40	0.6
	0.9s		9.00nm		3.9mb	
NAO	22.46	343	P	40	00.50	-0.6
	0.7s		3.60nm		4.0mb	
EKA	23.73	320	P	40	15.00	1.5
	0.7s		2.80nm		3.9mb	
BCAO	35.69	189	ePd	42	02.70	1.5
	0.6s		3.00nm		4.3mb	
			id	42	13.00	
S.D. = 0.9 on 58 of 76 obs.						

? JAN 23, 1991 11h 05m 06.35± 1.16s
20.310 S ±15.3km 168.023 E ±26.9km
DEPTH = 33.0km (normal)
4.3mb (4 obs.)
LOYALTY ISLANDS (188)

DZM	2.29	220	iPc	05	41.10	-1.6
			iS	06	33.00	
PVC	2.57	6	iP	05	45.80	-0.8
			iS	06	18.50	
BKM	2.64	5	iPd	05	46.70	-0.8
RMQ	18.71	247	iPc	09	29.40	4.9X
WRA	31.60	265	P	11	29.00	0.5
	0.8s		1.70nm		4.0mb	
ASPA	31.77	258	eP	11	30.20	0.2
	0.6s		6.20nm		4.7mb	
			i	11	41.30	
NWAO	46.71	244	eP	13	45.00	10.9X
	0.8s		14.00nm			
CHG	78.06	295	eP	17	07.00	3.1X
CHTO	78.06	295	eP	17	05.00	1.1
	1.0s		8.00nm		4.7mb	
LZH	82.60	313	P	17	28.00	0.1
GBA	95.16	283	P	18	43.00	14.9X
	0.8s		1.40nm			
YKA	102.14	28	ePdiff	19	06.30	7.6X
	0.6s		0.20nm		3.9mb	
BRG	143.30	332	e(PKP)	24	46.20	7.4X
MOX	144.46	334	ePKP	24	42.00	1.2
SKO	144.50	315	ePKP	24	39.00	-2.1
OHR	145.32	314	ePKP	24	44.00	1.4
GRF	145.35	333	ePKP	24	55.00	12.7X
BCAO	146.38	246	iPKPc	24	44.50	-0.6
	0.5s		15.00nm			
			ic	24	59.50	
ABH	146.66	337	ePKP	24	58.14	13.6X
SQTA	147.20	330	e(PKP)	24	47.00	1.4
	0.8s		5.80nm			
			i	24	49.70	
			i	25	00.80	
CDF	147.96	336	ePKP	25	01.20	14.5X
	0.8s		6.70nm			
BSF	148.62	335	ePKP	25	02.80	15.0X
HAU	148.65	336	ePKP	25	02.90	15.1X
FLN	150.15	345	ePKP	25	06.80	16.8X
	0.7s		8.80nm			
LOR	150.18	338	ePKP	25	06.60	16.5X
	1.0s		12.00nm			
LDF	150.21	344	ePKP	25	07.00	16.9X
SSF	150.48	338	ePKP	25	07.50	17.0X
	0.7s		4.40nm			
LPL	150.51	333	ePKP	25	08.00	17.1X
	0.8s		5.35nm			
LPG	150.51	333	ePKP	25	08.20	17.2X
	0.8s		8.05nm			
GRR	150.59	345	ePKP	25	07.60	17.0X
SMF	150.72	337	ePKP	25	07.70	16.8X
AVF	150.77	338	ePKP	25	07.80	16.8X
LPF	150.96	345	ePKP	25	08.50	17.3X
BGF	151.15	339	ePKP	25	08.80	17.2X
	0.7s		9.85nm			
MAF	151.53	339	ePKP	25	09.20	17.0X
TCF	151.60	339	ePKP	25	09.90	17.6X
LSF	151.85	340	ePKP	25	10.00	17.4X
S.D. = 1.3 on 12 of 37 obs.						

JAN 23, 1991 11h 10m 15.57± 0.58s
42.412 N ± 5.1km 19.402 E ± 4.8km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.6 (TTG).

TTG	0.11	280	iPgc	10	19.64	1.3
			iSg	10	23.04	
BDV	0.44	253	iPgd	10	24.65	0.0
			iSg	10	32.47	
PVY	0.46	66	iPgc	10	24.60	-0.4
			iSg	10	31.87	
ULC	0.46	194	iPgd	10	23.82	-1.2
			iSg	10	31.64	
NKY	0.50	323	iPgd	10	25.99	0.3
			iSg	10	34.65	
IVA	0.59	38	iPgd	10	27.27	-0.3
			iSg	10	37.05	
HCY	0.67	273	iPgd	10	28.49	-0.4
			iSg	10	40.24	
BRY	0.80	308	iPgc	10	30.62	-0.6
			iSg	10	44.67	
PLE	0.92	360	iPgc	10	33.05	-0.1
			iSg	10	47.94	
OHR	1.67	141	ePn	10	46.30	1.3
S.D. = 0.9 on 10 of 10 obs.						

• JAN 23, 1991 12h 59m 05.50± 0.73s
12.997 S ±29.3km 74.188 W ±16.4km
DEPTH = 33.0km (normal)
3.6mb (1 obs.)
PERU (116)

NNA	2.78	291	eP	59	48.70	0.0
	0.4s		10.17nm			
			eS	00	34.50	
PT10	2.87	288	e(P)	59	45.00	-4.9X
			eS	00	27.50	
ZOBO	6.71	120	P	00	45.00	0.1
LPB	6.86	122	P	00	47.00	0.2
CNCB	7.10	123	P	00	50.00	-0.3
SIV	13.04	105	P	02	11.20	-0.1
YKA	81.57	342	eP	11	21.00	0.0
	0.7s		0.50nm		3.6mb	
S.D. = 0.2 on 6 of 7 obs.						

• JAN 23, 1991 14h 03m 59.24± 0.88s
24.421 N ±14.0km 91.739 E ±11.6km
DEPTH = 33.0km (normal)
INDIA-BANGLADESH BORDER REGION (315)

GUN	6.31	305	P	05	33.00	0.2
PKI	6.50	300	P	05	35.80	0.3
KKN	6.71	301	P	05	38.00	-0.2
DMN	6.76	299	P	05	39.20	0.2
GKN	7.31	301	P	05	46.00	-0.6
CHG	8.72	128	eP	06	06.10	0.0
HYB	14.15	243	eP	07	19.50	0.0
			e	07	25.00	
			eS	09	58.00	
			e	10	08.00	
HFS	63.23	327	eP	14	14.00	-12.4X
	0.5s		1.70nm			
S.D. = 0.4 on 7 of 8 obs.						

• JAN 23, 1991 14h 08m 33.06± 1.37s
32.463 S ± 7.4km 71.845 W ±14.3km
DEPTH = 24.1 ± 7.0 km
NEAR COAST OF CENTRAL CHILE (135)

IHA	0.59	163	iPd	08	45.10	0.5
			iS	08	54.70	
ROCH	0.87	126	iPd	08	48.90	-0.6
			iS	08	56.00	
LCCH	1.04	167	iPc	08	52.00	0.0
			iS	09	05.00	
JACH	1.08	102	iPd	08	51.80	-1.0
			iS	09	05.00	
PEL	1.19	125	iPd	08	54.00	-0.3
SAN	1.40	135	iP	08	57.00	-0.3
			iS	09	15.00	
TACH	1.41	148	iPc	08	57.50	0.1
			iS	09	14.00	
LNV	1.53	166	iPd	08	59.00	-0.1
FCH	1.57	124	iPd	08	59.50	-0.4
			iS	09	19.00	
PCH	1.61	136	iPc	09	00.60	0.3
			iS	09	21.00	
MDZ	2.56	100	eP	09	16.00	2.0
			i(S)	09	48.80	
CNCB	15.97	14	P	12	23.00	4.6X
LPB	16.22	13	(P)	12	25.00	3.6X
ZOBO	16.47	13	P	12	24.60	-0.2
S.D. = 0.9 on 12 of 14 obs.						

? JAN 23, 1991 14h 08m 56.01±10.17s
47.434 N ±45.0km 9.275 E ±75.7km
DEPTH = 10.0km (geophysicist)
GERMANY (543)
ML 2.7 (LDG).

FEL	0.96	298	ePn	09	14.38	0.0
CDF	1.66	307	Pg	09	25.40	0.0
			Sg	09	48.50	
BSF	1.73	284	Pg	09	26.30	0.0
			Sg	09	50.00	
HAU	2.06	287	Pg	09	31.10	0.0
			Sg	10	00.40	
S.D. = 0.1 on 4 of 4 obs.						

• JAN 23, 1991 14h 18m 52.64± 1.50s
1.388 N ± 7.1km 78.943 W ±18.2km
DEPTH = 25.0 ± 5.8 km
COLOMBIA-ECUADOR BORDER REGION (106)
MD 4.4 (UVC).

CUMC	1.15	112	eP	19	13.25	-0.4
COTA	1.21	150	iPd	19	14.10	-0.4
			eS	19	28.80	
YANA	1.54	166	iPd	19	19.50	0.3
			iS	19	37.30	
GGP	1.59	167	iPd	19	20.40	0.4
CAYA	1.62	144	P	19	19.50	-0.8
			eS	19	38.50	
VC1	2.08	165	eP	19	27.00	-0.1
ANGL	2.26	142	eP	19	15.40	-14.1X
			S	19	30.00	
PURC	2.74	70	ePc	19	36.56	0.1
SALC	2.74	55	eP	19	36.78	0.6
			eS	20	08.40	
SILC	2.90	64	eP	19	39.22	0.6
ANCC	2.96	44	ePc	19	38.76	-0.4
			eS	20	11.90	
HOQC	3.10	48	iPc	19	41.16	-0.1
			eS	20	16.10	
DIAC	3.33	55	eP	19	45.26	0.7
			eS	20	23.10	
CLMC	3.43	44	eP	19	45.09	-0.9
BUGC	3.66	47	eP	19	49.06	-0.1
			eS	20	29.90	
HOBC	4.07	44	eP	19	54.13	-0.8
			eS	20	38.80	
S.D. = 0.6 on 15 of 16 obs.						

? JAN 23, 1991 14h 30m 10.49± 1.00s
44.775 N ± 7.0km 7.201 E ±10.6km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

BHB	0.08	34	P	30	13.03	0.0
			S	30	14.57	
PZZ	0.28	195	P	30	16.41	0.0
			S	30	19.90	
RRL	0.33	296	P	30	17.44	0.0
			S	30	21.44	
RSP	0.38	6	P	30	18.26	0.0
			S	30	22.87	
S.D. = 0.1 on 4 of 4 obs.						

% JAN 23, 1991 14h 41m 43.26± 1.07s
44.357 N ±10.2km 10.438 E ±10.5km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

MME	0.25	131	P	41	48.60	-0.1
			eSg	41	54.20	
BOB	0.82	300	P	41	59.30	0.1
			eSg	42	12.40	
SFI	1.11	113	P	42	03.90	-0.1
			eSg	42	18.70	
SAL	1.25	3	P	42	05.60	-0.9
CTI	1.90	26	P	42	17.00	1.0
S.D. = 0.9 on 5 of 5 obs.						

JAN 23, 1991 15h 16m 39.78± 0.31s
12.680 N ± 6.4km 86.272 W ± 5.8km
DEPTH = 14.8km (4 depth phases)
5.1mb (23 obs.) 5.0Msz (5 obs.)
NICARAGUA (75)
Felt in the Managua area. Felt at Tegucigalpa, Honduras.

LFU	2.96	291	eP	17 27.00	-0.2
			eS	18 06.00	
SJAS	2.98	290	eP	17 27.00	-0.5
VSS	3.08	290	iPd	17 28.50	-0.4
TME	3.28	294	eP	17 30.80	-0.9
UPA	7.57	118	ePc	18 30.00	-2.2
Z	20s	2.66um			
ANCC	13.02	134	eP	19 46.91	0.0
SALC	13.52	135	eP	19 52.97	-0.8
DIAC	13.65	132	eP	19 56.47	1.0
SILC	13.97	134	eP	20 00.47	0.6
PURC	14.22	136	eP	20 03.22	-0.1
CUMC	14.31	144	eP	20 05.00	0.5
SDV	15.82	102	eP	20 24.70	0.9
TOV	16.42	98	eP	20 32.10	0.7
RSCP	22.83	1	iPc	21 48.00	4.6X
TUL	24.67	341	iPc	22 02.80	1.5
	1.6s	130.10nm			5.3mb
Z	22s	1.16um			4.3Msz
			eS	26 37.40	
			LR	29 35.20	
MEO	24.68	335	iPc	22 02.80	1.4
BLA	24.98	11	eP	22 09.20	4.9X
	1.3s	101.85nm			5.3mb
NNA	26.23	159	eP	22 16.00	-0.2
	0.1s	244.44nm			6.8mb X
ALQ	28.73	324	eP	22 39.20	0.2
	1.2s	15.63nm			4.7mb
GLD	31.73	332	ePc	23 05.80	0.3
	1.3s	31.61nm			5.1mb
			epP	23 10.70	17km
GOL	31.76	331	P	23 05.20	-0.7
	1.2s	22.54nm			5.0mb
ZOBO	33.90	148	eP	23 29.00	3.9X
LPB	34.14	148	eP	23 42.00	15.1X
Z	20s	2.84um			5.0Msz
			LR	32 08.00	
CNCB	34.43	148	P	23 30.00	0.4
MSU	34.52	323	P	23 30.00	0.2
PLM	34.66	312	P	23 30.00	-1.1
RSSD	34.85	337	iPc	23 33.70	1.1
			epP	23 38.10	15km
DAU	35.29	326	P	23 36.50	0.0
CCH	35.88	146	(P)	23 44.00	2.3
BW06	36.14	330	P	23 43.00	-0.6
TNP	37.39	318	iPc	23 55.30	1.1
	1.2s	10.75nm			4.5mb
			epP	23 58.80	12km
SIV	37.85	138	P	23 54.00	-4.0X
BONR	38.04	317	P	23 59.90	0.2
LRM	39.79	331	ePc	24 15.30	1.1
SES	42.72	337	eP	24 38.00	0.2
FFC	43.73	347	iPc	24 47.00	1.1
	0.9s	18.00nm			4.9mb
NEW	43.77	330	P	24 46.00	-0.4
	1.1s	8.02nm			4.4mb
SCH	44.74	16	eP	24 56.00	1.9
LON	45.22	326	P	24 57.90	-0.2
PNT	45.70	330	eP	25 02.00	0.1
	1.0s	22.00nm			5.1mb
BAO	47.18	126	ePd	25 11.50	-2.6
FRB	52.50	10	eP	25 54.00	-0.1
YKA	53.70	344	eP	26 00.90	-2.1
	0.9s	9.80nm			4.8mb
INK	63.33	342	eP	27 09.00	-1.2
MBC	65.95	352	eP	27 26.00	-1.0
	0.6s	9.00nm			5.1mb
DAG	72.65	13	iPd	28 08.40	0.2
	0.6s	4.67nm			4.7mb
EKA	75.77	36	Pd	28 27.90	1.3
	2.3s	83.90nm			5.4mb
MAL	76.06	55	eP	28 31.00	2.3
LPF	77.52	43	eP	28 34.30	-2.2
GRR	77.61	43	eP	28 34.60	-2.4
FLN	77.82	42	eP	28 36.20	-2.0
Z	20s	0.80um			5.0Msz
MFF	78.26	45	eP	28 38.60	-2.1
EPF	79.01	48	eP	28 45.20	0.3
	1.7s	80.85nm			5.5mb
LFF	79.07	46	eP	28 45.30	0.2
LPO	79.41	46	eP	28 46.90	-0.1
LSF	79.45	45	eP	28 46.80	-0.4
RJF	79.57	46	eP	28 47.90	0.1
	1.5s	52.25nm			5.3mb
Z	20s	0.50um			4.9Msz
TCF	79.92	45	eP	28 49.00	-0.7
CAF	80.00	46	eP	28 50.20	0.0
AVF	80.63	44	eP	28 52.70	-0.7
	1.5s	20.90nm			4.9mb
SSF	80.69	44	eP	28 52.90	-0.9
	1.5s	36.55nm			5.2mb
LOR	80.90	44	eP	28 54.10	-0.8
	1.5s	31.35nm			5.1mb
Z	20s	0.93um			5.1Msz
SMF	80.98	44	eP	28 54.70	-0.6
	1.5s	26.10nm			5.0mb
LBF	81.02	44	eP	28 54.60	-1.0
HAU	82.44	43	eP	29 02.60	-0.3
BSF	82.76	43	eP	29 04.20	-0.5
ABH	82.86	41	eP	29 05.25	0.2
CDF	82.97	42	eP	29 05.40	-0.4
HFS	84.02	30	ePKP	29 12.50	1.8
	0.4s	0.80nm			4.3mb
MOX	85.24	39	eP	29 18.00	0.9
CLL	85.93	38	e(P)	29 22.00	1.6
	1.9s	33.00nm			5.2mb
WET	86.41	41	iPc	29 25.00	2.0
	1.8s	89.00nm			5.7mb
BRG	86.62	39	eP	29 28.00	4.1X
	2.0s	48.00nm			5.4mb
KHC	86.86	40	P	29 26.00	0.8
			e	29 31.00	16km
ZST	89.37	41	eP	29 41.70	4.6X
SRO	90.26	41	eP	29 44.40	3.1X
KRA	90.51	38	eP	29 48.40	6.0X
WRA	140.44	254	PKP	36 08.00	-3.1X
	0.8s	3.20nm			
HYB	146.55	27	ePKP	36 22.00	0.4
GBA	149.30	32	PKP	36 30.60	4.6X
NWAO	150.54	223	ePKP	36 29.00	1.6
	0.7s	6.00nm			
MUN	151.80	223	ePKP	36 32.00	2.7X
KOD	152.09	36	ePKP	36 34.80	4.2X
S.D. = 1.2 on 70 of 83 obs.					

* JAN 23, 1991 15h 45m 36.41± 2.72s
61.896 N ±13.1km 3.995 E ±20.8km
DEPTH = 10.0km (geophysicist)
NORWEGIAN SEA (642)
MD 3.1 (BER).

FRO	0.44	108	iPgc	45 46.08	0.6
			eSg	45 50.76	
FOO	0.58	121	iPg	45 48.23	0.1
			eSg	45 54.52	
SUE	0.92	156	iP	45 55.40	1.5
			eSg	46 08.20	
HYA	1.28	124	eP	45 58.80	-1.3
			eSg	46 13.83	
ASK	1.53	157	eP	46 04.18	0.4
			eS	46 22.01	
MOL	1.80	66	eP	46 05.68	-1.9
			eSg	46 26.15	
ODD1	2.37	146	eP	46 15.03	-0.9
			eS	46 40.65	
KMY	2.76	167	eP	46 21.01	-0.5
			eS	46 50.90	
RGS	3.20	67	ePg	46 29.80	2.2
			eSg	47 06.50	
NRA0	3.82	104	Pn	46 31.90	-4.6X
			Lg	47 31.70	
HFS	5.04	106	eP	46 48.90	-4.9X
	0.3s	5.00nm			4.6mb X
S.D. = 1.5 on 9 of 11 obs.					

? JAN 23, 1991 16h 35m 34.85± 2.43s
4.785 N ±24.8km 76.190 W ±26.1km
DEPTH = 110.0km (geophysicist)
COLOMBIA (103)
MD 3.7 (UVC).

HOBC	0.43	173	iPd	35 51.64	0.0
			eS	36 03.50	
BUGC	0.89	184	eP	35 55.30	0.0
			eS	36 09.90	
CLMC	0.97	203	eP	35 56.78	0.6
			eS	36 12.50	
HOOC	1.38	199	iPd	36 00.76	-0.1
			eS	36 19.40	
ANCC	1.43	208	eP	36 00.78	-0.5
DIAC	1.48	180	eP	36 01.58	-0.4
SALC	1.87	196	eP	36 07.02	0.2
SILC	2.09	184	eP	36 09.69	-0.2
PURC	2.45	184	eP	36 15.30	0.5
S.D. = 0.4 on 9 of 9 obs.					

* JAN 23, 1991 17h 14m 05.57± 0.82s
36.261 N ±19.2km 31.400 E ±17.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ELL	1.30	292	iPn	14 30.00	0.3
BCK	1.36	332	iPn	14 35.00	4.3X
PPCY	1.57	150	eP	14 33.20	-0.4
CSS	2.04	129	eP	14 40.50	0.2
KHL	2.55	325	iPn	14 47.30	-0.3
ATZ	4.69	136	eP	15 19.00	0.9
			eS	16 09.00	
DSI	5.73	144	eP	15 32.00	-0.7
			eS	16 34.00	
S.D. = 0.8 on 6 of 7 obs.					

JAN 23, 1991 17h 17m 05.11± 0.59s
44.788 N ± 4.6km 112.709 W ± 5.4km
DEPTH = 5.0km (geophysicist)
EASTERN IDAHO (457)
ML 3.0 (BUT).

MCMT	0.11	292	iPd	17 08.20	0.6
LTMT	0.50	121	iPd	17 15.60	0.4
BGMT	0.65	47	iPc	17 18.10	-0.1
HBMT	1.01	4	ePn	17 24.40	-0.4
LRM	1.05	10	ePn	17 25.20	-0.4
HPI	1.11	195	eP	17 26.00	-0.6
LCCM	1.20	29	ePn	17 27.50	-0.6
BUT	1.23	5	ePg	17 29.90	1.3X
			eSn	17 45.30	
			eSg	17 45.90	
MEMT	1.48	56	ePn	17 32.80	0.2
SXM	1.72	37	ePn	17 36.50	0.4
HRY	2.02	17	ePn	17 40.80	0.5
BW06	3.04	130	eP	17 58.00	3.0X
S.D. = 0.5 on 10 of 12 obs.					

% JAN 23, 1991 17h 58m 59.62± 1.80s
3.785 N ± 9.9km 76.722 W ±15.7km
DEPTH = 38.7 ± 18.1 km
COLOMBIA (103)
MD 3.0 (UVC).

CLMC	0.19	59	iPd	59 07.26	0.4
ANCC	0.30	208	eP	59 07.71	-0.2
			eS	59 14.00	
HOOC	0.33	164	eP	59 08.10	-0.3
BUGC	0.48	77	iPd	59 10.11	0.0
			eS	59 18.00	
DIAC	0.72	133	eP	59 13.21	-0.3
SALC	0.81	178	eP	59 14.88	0.1
			eS	59 26.60	
HOBC	0.81	46	eP	59 14.64	-0.2
			eS	59 26.20	
SILC	1.15	161	eP	59 20.34	0.4
S.D. = 0.4 on 8 of 8 obs.					

* JAN 23, 1991 18h 19m 00.83± 1.58s
14.962 S ±15.7km 167.012 E ±24.8km
DEPTH = 118.1 ± 15.0 km
5.0mb (2 obs.)
VANUATU ISLANDS (186)

BKM	2.94	156	iP	19 46.50	-0.5
DZM	7.09	184	iPd	20 44.00	0.4
			iS	22 03.10	
HNR	8.83	308	eP	21 06.00	-1.0
			eS	22 46.00	
SVO	9.10	309	eP	21 12.00	1.2
VSG	9.12	308	eP	21 11.00	0.0
RMO	20.54	233	iPd	23 33.20	1.3
ASPA	32.36	249	iPc	25 19.10	-2.1
	0.7s	6.60nm			4.5mb
FORR	38.95	239	iPc	26 17.00	0.1
	0.4s	29.00nm			5.4mb

BCAO 147.26 255 iPKPc 38 30.90 0.5
0.5s 6.00nm
ic 39 03.20
S.D. = 1.4 on 9 of 9 obs.

• JAN 23, 1991 18h 26m 36.63± 0.69s
34.719 N ±12.2km 141.790 E ±14.3km
DEPTH = 33.0km (normal)
4.4mb (5 obs.)
OFF EAST COAST OF HONSHU, JAPAN (229)

MAT 3.44 303 iPc 27 29.10 -0.1
eS 28 11.00
WRA 54.82 189 P 36 04.00 -1.8
1.3s 4.50nm 4.3mb
INK 56.31 26 eP 36 16.00 -0.1
ASPA 58.54 188 eP 36 34.10 1.8
1.3s 5.20nm 4.5mb
MBC 58.66 16 eP 36 33.00 0.5
GBA 61.37 267 P 36 52.00 0.1
0.9s 4.20nm 4.6mb
YKA 65.66 30 eP 37 19.00 -0.4
0.8s 0.50nm 3.7mb
NB2 76.44 338 P 38 24.40 0.1
0.9s 2.70nm 4.3mb
FRB 78.95 13 eP 38 38.00 0.0
ZOBO 147.52 63 PKP 46 21.00 3.6X
LP8 147.71 63 ePKP 46 26.00 8.5X
CNCB 147.97 64 PKP 46 23.90 5.8X
S.D. = 1.1 on 9 of 12 obs.

? JAN 23, 1991 19h 10m 54.28± 4.01s
39.798 S ±31.1km 71.292 W ±49.4km
DEPTH = 33.0km (normal)
S. CHILE-ARGENTINA BORDER REGION(145)

LNV 5.83 359 iPd 12 20.70 0.0
iS 13 21.00
TACH 6.14 3 eP 12 25.00 -0.1
i 13 28.70
PCH 6.20 6 eP 12 27.00 1.0
LCCH 6.31 358 eP 12 27.00 -0.5
FCH 6.51 7 eP 12 31.00 0.5
iS 13 41.60
PEL 6.66 4 iPc 12 32.10 -0.3
iS 13 42.50
JACH 7.12 5 ePd 12 38.00 -1.0
CNCB 23.09 8 P 15 59.00 0.3
LPB 23.35 8 eP 15 56.00 -5.0X
ZOBO 23.60 8 P 16 04.00 0.3
PDCR 39.26 55 eP 18 21.30 -0.3
S.D. = 0.6 on 10 of 11 obs.

• JAN 23, 1991 19h 40m 01.44± 0.89s
31.699 S ± 5.2km 71.502 W ±21.5km
DEPTH = 33.0km (normal)
NEAR COAST OF CENTRAL CHILE (135)

IHA 1.33 185 eP 40 24.50 0.7
iS 40 42.60
ROCH 1.34 162 iPc 40 24.40 0.3
iS 40 41.60
PEL 1.60 155 iPc 40 28.00 0.2
SAN 1.89 158 eP 40 37.50 5.5X
iS 40 55.00
FCH 1.92 148 eP 40 32.50 -0.2
iS 40 58.00
TACH 2.01 166 iP 40 33.70 0.0
iS 44 58.00
PCH 2.09 157 eP 40 35.00 0.1
i 41 02.50
LNV 2.25 178 iPc 40 36.00 -1.1
iS 41 05.00
CNCB 15.16 13 P 43 40.00 4.5X
LPB 15.41 12 P 43 39.00 0.5
ZOBO 15.67 12 P 43 41.50 -0.5
S.D. = 0.6 on 9 of 11 obs.

& JAN 23, 1991 20h 57m 21.83s
60.102 N 153.576 W
DEPTH = 159.1km
SOUTHERN ALASKA (2)
<AEIC>.

PDB 0.44 225 iP 57 43.18 0.6
iS 57 59.90
RS2 0.55 48 eP 57 44.09 -0.9
eS 58 00.91
RSO 0.55 48 eP 57 44.03 -0.9
eS 58 00.79
NCT 0.56 35 iP 57 44.10 -0.8
eS 58 00.91
REF 0.58 48 iP 57 44.27 -0.9
eS 58 01.64
RDT 0.75 50 iP 57 44.93 -1.1
AUE 0.75 172 eP 57 44.90 -1.0
HOM 1.07 114 eP 57 47.51 -0.8
eS 58 06.88
NNL 1.14 92 eP 57 48.69 -0.3
CDD 1.18 182 iP 57 48.00 -1.3
CKL 1.26 29 iP 57 49.49 -0.7
iS 58 10.95
BGL 1.30 26 eP 57 50.11 -0.5
CNPM 1.32 115 iP 57 49.25 -1.4
eS 58 09.50
SPU 1.32 34 iP 57 49.58 -1.1
eS 58 11.93
NKA 1.33 60 eP 57 50.80 0.2
BRLK 1.40 103 eP 57 50.27 -1.1
eS 58 11.94
SYI 1.62 157 eP 57 51.74 -1.8
eS 58 15.44
SLKM 1.72 75 eP 57 52.92 -1.9
SUA 1.95 44 eP 57 55.81 -1.6
eS 58 22.89
SEW 2.07 88 eP 57 56.95 -1.7
PMS 2.28 58 eP 57 59.06 -2.2
PLRM 2.64 54 eP 58 02.31 -3.2
GHO 2.82 52 eP 58 04.90 -3.0
eS 58 40.45
KNIM 2.92 83 iP 58 06.70 -2.4
MTU 2.97 90 eP 58 08.07 -1.7
GLI 3.30 74 eP 58 10.99 -2.9
26 obs. associated

JAN 23, 1991 23h 12m 19.61± 0.31s
44.635 N ± 2.4km 6.794 E ± 3.2km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.4 (LDG).

PZZ 0.26 121 P 12 25.03 -0.1
S 12 29.23
RRL 0.28 359 P 12 25.13 -0.5
S 12 29.74
DOI 0.35 112 Pd 12 28.80 2.0
eSg 12 34.00
BHB 0.39 58 P 12 27.43 -0.2
S 12 33.46
BNI 0.43 349 P 12 29.70 1.4
eSg 12 35.70
STV 0.55 136 P 12 30.05 -0.6
S 12 37.64
ENR 0.61 132 P 12 31.54 -0.4
S 12 39.74
RSP 0.61 32 P 12 31.49 -0.6
S 12 40.31
ROB 0.84 113 P 12 35.69 -0.2
S 12 47.56
LSD 0.86 17 P 12 35.49 -0.9
S 12 47.05
LPG 0.86 358 Pg 12 35.70 -0.7
Sg 12 47.80
LPL 0.88 357 Pg 12 36.10 -0.6
Sg 12 48.50
S8F 0.90 149 Pg 12 36.90 0.0
Sg 12 49.20
IMI 1.07 132 P 12 40.10 0.3
S 12 55.77
FRF 1.08 186 Pg 12 39.70 -0.2
Sg 12 53.80
FIN 1.10 112 P 12 39.90 -0.4
S 12 55.25
LRG 1.22 195 Pn 12 42.00 -0.3
Pg 12 43.00
Sg 13 00.60
PCP 1.25 94 P 12 42.56 -0.4
S 12 59.36
ORO 1.30 40 P 12 44.90 1.2
eSn 13 02.30
ORX 1.30 40 P 12 44.36 0.5
LMR 1.32 189 Pg 12 44.20 0.3
Sg 13 02.40
SMF 2.89 315 Pn 13 07.10 0.6
LBF 3.07 321 Pn 13 09.50 0.5
AVF 3.23 313 Pn 13 11.30 -0.1
BGF 3.37 306 Pn 13 13.40 0.0
HAU 3.39 355 Pn 13 13.10 -0.5
S.D. = 0.7 on 26 of 26 obs.

% JAN 24, 1991 00h 16m 26.74± 0.65s
40.386 N ± 7.7km 28.731 E ± 5.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.5 (ISK).

YLV 0.52 70 iPg 16 37.10 -0.2
iSg 16 43.10
BNT 0.62 268 ePg 16 39.20 0.0
iSg 16 47.70
EDC 0.66 267 ePg 16 40.00 0.1
iSg 16 49.00
ISK 0.72 20 ePg 16 40.80 -0.1
eSg 16 51.40
DST 0.78 186 iPg 16 42.00 0.0
HRT 0.84 58 ePg 16 43.30 0.4
S.D. = 0.3 on 6 of 6 obs.

? JAN 24, 1991 01h 15m 20.68± 2.33s
40.378 N ±29.9km 27.375 E ± 9.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.8 (ISK).

EDC 0.37 95 ePg 15 29.00 0.6
BNT 0.42 93 ePg 15 28.60 -0.6
EZN 0.98 236 iPg 15 39.20 0.0
iSg 15 53.20
DST 1.23 128 iPn 15 43.60 0.0
S.D. = 0.9 on 4 of 4 obs.

JAN 24, 1991 01h 17m 17.64± 0.71s
23.640 N ± 5.3km 121.330 E ± 8.1km
DEPTH = 10.0km (geophysicist)
4.2mb (2 obs.)
TAIWAN (244)

TWF1 0.29 186 iPc 17 23.50 -0.2
eS 17 28.00
TWD 0.50 29 iPc 17 27.00 -0.8
eS 17 33.40
TWQ 0.78 325 eP 17 32.10 -0.7
TWG 0.85 196 ePc 17 33.80 -0.2
TWK 0.86 244 iPc 17 34.20 0.0
eS 17 47.60
TWC 1.07 26 ePd 17 37.40 -0.4
eS 17 52.60
ANP 1.55 6 eP 17 47.00 1.6
eS 18 08.70
QZH 2.82 298 Pn 18 02.00 -1.5
Pg 18 10.50
Sn 18 35.00
SSE 7.43 359 eP 19 04.50 -4.1X
sP 19 14.00
eS 20 31.00
GYA 13.59 285 P 20 33.00 0.0
XAN 15.01 316 eP 20 56.00 4.5X
LZH 19.55 313 eP 21 49.50 0.8
1.0s 13.00nm 4.2mb
pP 21 54.00 18kmX
CHG 21.40 261 eP 22 11.00 3.1X
GTA 24.07 316 eP 22 36.60 2.5X
1.2s 10.00nm 4.3mb
GUN 32.14 285 P 23 49.40 1.4
S.D. = 1.1 on 11 of 15 obs.

JAN 24, 1991 02h 05m 40.74± 0.89s
43.351 N ± 7.4km 19.500 E ± 7.1km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.5 (TTG).

PLE 0.08 255 iPgd 05 42.18 -1.1
iSg 05 45.20
IVA 0.56 149 iPgc 05 51.60 -0.6
iSg 06 01.39
NKY 0.65 215 iPgc 05 53.15 -0.7
iSg 06 05.95
PVY 0.83 155 iPgc 05 56.22 -0.7
iSg 06 12.04
BRY 0.83 238 iPgd 05 55.64 -1.3

24d 02h

			iSg	06 11.52		
TTG	0.94	191	iPgd	05 58.25	-0.3	
			iSg	06 14.74		
HCY	1.16	220	iPgd	06 03.39	0.9	
			iSg	06 23.37		
BDV	1.18	205	iPgc	06 03.90	1.2	
			iSg	06 23.75		
ULC	1.40	188	iPgd	06 07.89	1.6	
			iSg	06 30.54		
SKO	1.99	133	ePn	06 18.00	3.3X	
HVAR	2.24	267	iPn	06 19.20	0.8	
			iSn	06 49.30		
OHR	2.44	156	ePn	06 26.20	4.9X	
BZS	2.73	33	ePc	06 25.50	0.2	

S.D. = 1.1 on 11 of 13 obs.

% JAN 24, 1991 03h 03m 30.52± 1.17s
46.145 N ± 6.7km 0.045 W ±11.9km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.2 (LDG).

MFF	0.46	351	Pg	03 39.80	-0.1	
			Sg	03 45.60		
LSF	1.10	84	Pg	03 50.80	-0.4	
			Sg	04 04.10		
LFF	1.33	155	Pg	03 54.70	-0.3	
			Sg	04 12.30		
RJF	1.38	127	Pg	03 55.70	-0.1	
			Sg	04 13.00		
TCF	1.57	84	Pg	03 58.40	-0.1	
			Sg	04 18.90		
LPO	1.70	149	Pg	04 01.30	0.9	
			Sg	04 24.20		
MAF	1.82	87	Pg	04 03.10	1.0	
			Sg	04 26.20		
CAF	1.92	129	Pn	04 02.60	-1.0	
			Pg	04 05.60		
			Sg	04 29.60		

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

? JAN 24, 1991 03h 52m 02.24± 4.15s
4.351 N ±29.3km 76.641 W ±24.4km
DEPTH = 62.5 ± 36.7 km
COLOMBIA (103)
MD 3.0 (UVC).

CLMC	0.47	171	iPd	52 14.91	0.5	
			eS	52 23.70		
HOBC	0.50	90	iPd	52 14.69	0.0	
			eS	52 23.30		
BUGC	0.59	140	eP	52 15.64	0.0	
ANCC	0.86	195	eP	52 18.42	-0.3	
			eS	52 29.90		
HOQC	0.88	180	iPd	52 18.62	-0.6	
			eS	52 30.20		
DIAC	1.14	157	iPd	52 22.52	-0.1	
			eS	52 37.00		
SALC	1.37	182	eP	52 26.32	0.6	
			eS	52 43.60		

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

JAN 24, 1991 04h 01m 23.62± 0.66s
23.628 N ± 5.4km 121.360 E ± 8.9km
DEPTH = 10.0km (geophysicist)
3.9mb (5 obs.)
TAIWAN (244)

TWF1	0.28	192	iPc	01 29.20	-0.3	
			eS	01 33.10		
TWD	0.50	26	iPc	01 32.80	-0.9	
TWQ	0.80	323	ePc	01 38.10	-1.1	
			eS	01 48.50		
TWG	0.85	198	ePc	01 39.60	-0.3	
TWK	0.88	246	ePc	01 39.80	-0.7	
TWC	1.07	24	ePc	01 43.60	-0.2	
			eS	01 59.30		
ANP	1.56	5	eP	01 53.00	1.5	
			eS	02 13.30		
SSE	7.44	359	eP	03 14.50	-0.3	
			eS	04 37.00		
NJ2	8.68	346	eP	03 33.00	0.9	
			S	05 10.00		
GYA	13.62	285	P	04 38.00	-1.4	
XAN	15.03	316	eP	05 02.30	4.5X	
TIY	15.99	333	eP	05 15.30	5.1X	
HHC	19.04	337	P	05 52.00	3.6X	
LZH	19.58	313	eP	05 55.00	0.0	
	1.6s		18.00nm		4.1mb	
			pP	06 04.50	40kmX	
CHTO	21.43	261	eP	06 16.00	1.9	
	1.5s		4.50nm		3.6mb	
GTA	24.09	316	Pd	06 42.10	1.8	
	1.4s		10.00nm		4.2mb	
WRA	45.12	163	P	09 43.00	0.9	
	0.5s		0.60nm		3.8mb	
YKA	83.42	23	eP	13 50.50	-1.7	
	0.5s		0.30nm		3.8mb	

S.D. = 1.2 on 15 of 18 obs.

% JAN 24, 1991 04h 25m 49.12± 5.42s
39.060 N ±36.0km 23.752 E ±31.8km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

PAIG	0.87	356	ePc	26 06.64	0.8	
			eS	26 17.12		
AGG	1.11	268	iPc	26 10.13	0.2	
			iS	26 24.40		
OUR	1.29	8	ePd	26 13.04	0.1	
LIT	1.43	317	ePd	26 14.00	-1.1	
			eS	26 31.60		
THE	1.68	339	ePc	26 18.12	-0.6	
SOH	1.79	350	iPc	26 20.12	-0.1	
SRS	2.06	357	ePc	26 23.92	-0.2	
KNT	2.20	343	ePc	26 26.00	-0.2	
FNA	2.51	314	ePd	26 31.68	1.0	

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

& JAN 24, 1991 05h 00m 26.90s
36.378 N 97.300 W
DEPTH = 5.0km
OKLAHOMA (499)
<TUL>. mbLg 2.9 (TUL). 3.0 (NEIS). Felt (V) at Perry and (IV) at Red Rock. Felt throughout most of Noble County and in parts of Garfield County.

SIO	1.02	128	P	00 45.60	-1.1	
BIX	1.24	108	P	00 49.50	-0.9	
TUL	1.31	110	P	00 50.50	-1.0	
VVO	1.64	129	P	00 55.80	-0.7	
RLO	1.85	96	P	00 59.10	-0.5	
OLY	4.81	99	e(P)	01 44.00	2.3	
FVM	5.72	72	e(P)	01 52.00	-2.6	
ELC	6.54	80	e(P)	02 10.00	3.9	
GOL	7.18	300	eP	02 12.50	-2.9	
ANMO	7.59	262	e(P)	02 24.00	3.0	
ALQ	7.59	262	e(P)	02 24.00	2.9	
PWLA	7.64	98	e(P)	02 24.50	2.9	
RSSD	9.29	328	e(P)	02 40.00	-4.6	
BW06	11.41	308	e(P)	03 12.00	-1.8	

14 obs. associated

• JAN 24, 1991 05h 12m 30.42± 1.59s
39.441 N ±16.7km 25.006 E ± 7.8km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

EZN	1.09	69	iPn	12 49.80	-1.1	
PAIG	1.13	296	iPc	12 50.90	-0.7	
			eS	13 05.22		
OUR	1.19	319	ePd	12 50.90	-1.7	
			eS	13 07.62		
ALN	1.66	28	ePc	13 01.02	1.4	
			eS	13 24.86		
SOH	1.87	318	ePd	13 03.78	1.0	
			iS	13 28.30		
SRS	1.99	328	ePc	13 04.06	-0.5	
			eS	13 31.74		
AGG	2.12	259	ePc	13 06.78	0.4	
KNT	2.36	318	ePc	13 10.94	1.2	
			eS	13 44.14		

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

? JAN 24, 1991 05h 46m 08.67± 0.78s
5.826 S ±18.5km 105.468 E ±21.1km
DEPTH = 33.0km (normal)
4.7mb (3 obs.)
SUNDA STRAIT (276)

CHG	25.31	345	eP	51 34.90	0.8	
ASPA	32.60	126	iPc	52 39.40	-0.3	
	1.4s		12.80nm		4.6mb	
GBA	33.87	305	Pc	52 50.00	-0.6	
	0.9s		7.50nm		4.6mb	
PKI	38.45	331	P	53 29.80	0.1	
GUN	38.50	332	P	53 30.40	0.2	
DMN	38.63	330	P	53 30.60	-0.5	
KKN	38.69	331	P	53 31.20	-0.4	
GKN	39.18	330	P	53 35.40	-0.2	
BCAO	87.40	275	iPd	58 55.50	0.9	
	0.6s		8.00nm		5.2mb	
YKA	116.28	19	ePKP	04 47.40	-2.7X	
	0.9s		0.80nm			

S.D. = 0.6 on 9 of 10 obs.

JAN 24, 1991 07h 39m 50.09± 0.58s
39.353 N ± 7.5km 25.036 E ± 4.9km
DEPTH = 14.4 ± 5.5 km
AEGEAN SEA (365)
ML 3.5 (ATH).

PRK	0.96	96	ePb	40 09.00	1.0	
EZN	1.10	64	iPn	40 10.40	0.0	
			iSg	40 27.40		
NEO	1.41	269	ePb	40 14.50	-0.7	
PLG	1.59	310	ePb	40 17.00	-0.9	
ATH	1.72	217	ePb	40 20.50	0.8	
RDO	1.83	12	ePb	40 22.50	1.2	
IZM	1.98	118	ePn	40 22.90	-0.6	
SMG	2.17	139	ePg	40 31.50	5.4X	
EDC	2.39	65	ePn	40 33.00	3.6X	
EVR	2.55	261	ePb	40 32.50	0.8	
KZN	2.69	292	ePb	40 34.50	0.8	
VAY	2.72	317	ePn	40 34.00	-0.1	
DST	2.79	84	ePn	40 34.80	-0.3	
ITM	3.27	229	ePn	40 41.70	-0.2	
YLV	3.55	69	eP	40 50.00	4.2X	

S.D. = 0.9 on 12 of 15 obs.

% JAN 24, 1991 07h 54m 09.75± 1.83s
3.230 N ± 7.2km 76.570 W ±11.8km
DEPTH = 48.3 ± 23.0 km
COLOMBIA (103)
MD 3.0 (UVC).

HOOC	0.25	345	iPd	54 18.47	-0.2	
SALC	0.28	206	iPc	54 18.66	-0.2	
			eS	54 25.20		
DIAC	0.38	81	iPc	54 19.97	0.2	
			eS	54 27.70		
ANCC	0.41	314	eP	54 20.41	0.5	
SILC	0.59	157	iPc	54 22.40	0.0	
			eS	54 31.90		
CLMC	0.65	1	iPd	54 22.53	-0.5	
BUGC	0.73	25	eP	54 23.93	-0.1	
			eS	54 34.60		
HOBC	1.20	21	iPc	54 30.79	0.3	

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

? JAN 24, 1991 08h 23m 26.26± 4.98s
51.023 N ±34.1km 19.562 E ±33.7km
DEPTH = 10.0km (geophysicist)
4.3mb (1 obs.)
POLAND (548)
ML 4.0 (GRF), 3.6 (BRA).

KRA	1.00	166	iPgc	23 44.90	-0.3	
			iSg	23 54.60		
SPC	1.89	166	eP	24 50.00	51.0X	
			e	24 53.00		
			i	24 57.20		
			iS	25 17.40		
KSP	2.08	266	ePn	24 01.80	0.2	
	0.4s		242.00nm			
			iPg	24 04.50		
			iSg	24 27.70		
PSZ	3.11	176	eP	24 18.80	2.4X	
ZST	3.25	210	e(Pn)	24 19.60	1.3	
	0.7s		0.03nm			
			e(Sn)	24 41.30		
			i	24 47.70		
			e	24 53.30		
SRO	3.31	195	iPn	24 19.10	-0.1	
			e	24 40.50		
			e	25 02.40		
PRU	3.37	254	Pn	24 16.00	-3.9X	
			Pg	24 21.80		
			e	24 26.30		

			Sg	24	58.80	
VKA	3.47	219	iP	24	20.80	-0.6
			i	24	37.90	
			i(Sg)	24	54.40	
BRG	3.56	270	iPg	24	30.00	7.4X
			iSg	25	15.00	
CLL	4.14	277	ePg	24	43.00	12.2X
			iSg	25	35.80	
KHC	4.29	246	iPn	24	28.50	-4.6X
			Pg	24	34.00	
			eSn	25	12.30	
			Sg	25	22.00	
HOF	4.94	265	ePn	24	56.00	13.7X
MOX	5.05	269	ePn	24	45.00	1.2
			ePg	25	02.00	
			iSg	26	02.00	
BHG	5.47	235	iPnc	24	58.80	9.0X
GRF	5.50	259	e(Pn)	24	48.40	-1.8
			ePg	25	03.80	
			e(Sn)	25	46.50	
			eSg	26	08.90	
SQTA	6.67	238	iP	25	24.50	17.7X
			i	26	07.80	
			i	26	25.40	
			iSg	26	35.30	
NRA0	10.72	338	Pn	26	09.10	6.4X
			Sn	28	08.80	
			S	28	57.80	
NB2	11.06	338	P	26	15.80	8.4X
	0.6s		1.00nm			4.3mb
	S.D. = 1.3		on	7	of 18	obs.

? JAN 24, 1991 08h 46m 51.28±10.22s
44.780 N ±72.4km 15.186 E ±17.3km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.5 (LJU). Felt at Otocac and Liko.

VBY	0.73	4	ePg	47	05.30	-0.3
			iSg	47	13.60	
RIY	0.80	315	iPg	47	06.00	-0.8
			iSg	47	17.00	
CEY	1.10	331	eP	47	12.00	0.1
			eSg	47	28.50	
PTJ	1.25	26	iPgc	47	14.10	-0.4
			eSg	47	27.60	
LJU	1.34	340	e(Pn)	47	17.40	1.4
			eSn	47	36.00	
VOY	1.55	324	ePnc	47	21.50	2.5X
			eSn	47	42.40	
	S.D. = 1.2		on	5	of 6	obs.

JAN 24, 1991 09h 19m 01.22± 2.78s
13.280 S ±13.7km 167.189 E ±11.2km
DEPTH = 258.8 ± 25.0 km
4.8mb (4 obs.)
VANUATU ISLANDS (186)

DZM	8.77	185	iPc	21	05.80	0.6
			iS	22	49.10	
BRS	19.46	222	iP	23	10.50	0.1
RMO	21.71	230	iPc	23	33.40	0.9
	0.7s		37.00nm			5.0mb
TCW	28.51	169	P	24	35.10	0.2
CAW	28.57	167	P	24	34.90	-0.5
MRW	28.61	168	P	24	36.10	0.4
WDW	28.70	168	P	24	36.10	-0.5
BLW	28.90	167	P	24	37.90	-0.4
MOW	28.91	167	eP	24	37.70	-0.7
ASPA	33.14	247	eP	25	13.40	-2.1
	0.5s		8.90nm			4.6mb
FORR	39.97	238	eP	26	12.70	0.3
	0.4s		23.00nm			4.9mb
WARB	40.10	245	eP	26	13.70	0.2
	0.4s		11.00nm			4.6mb
GUN	88.63	299	P	31	27.40	0.3
PKI	88.94	299	P	31	27.80	-0.7
KKN	89.11	299	P	31	29.40	0.3
DMN	89.21	298	P	31	30.20	0.6
GKN	89.71	299	P	31	31.60	-0.2
YKA	96.30	27	eP	31	59.60	-1.4
	0.7s		0.30nm			3.7mb X
KAF	123.82	339	ePKP	37	29.90	0.6
	0.5s		2.80nm			
N82	129.21	345	PKP	37	40.40	0.6
	0.7s		2.00nm			
HFS	129.32	343	ePKP	37	40.00	0.1
	0.4s		1.30nm			
SOB1	144.27	127	ePKP	38	10.40	1.5
BCAO	147.84	257	iPKPc	38	18.90	4.2X
	0.3s		21.00nm			
			id	38	22.10	
	S.D. = 0.9		on	22	of 23	obs.

JAN 24, 1991 09h 42m 43.82± 0.19s
23.134 N ± 4.2km 142.248 E ± 3.8km
DEPTH = 144.9km (3 depth phases)
4.9mb (28 obs.)
VOLCANO ISLANDS REGION (213)

PJG	9.81	165	eP	45	06.20	3.6X
GUA	9.87	165	eP	45	06.40	3.0X
	1.2s		812.50nm			6.3mb X
MAT	13.81	346	iPd	45	48.50	-6.1X
	0.8s		32.09nm			4.7mb
			eS	48	13.00	
CVP	19.88	258	ePd	47	10.00	4.1X
SSE	20.33	297	Pd	47	11.50	1.1
	0.7s		40.00nm			4.9mb
Z	16s		0.40um			3.9MszX
N	16s		0.50um			
			S	50	48.00	
			SS	51	30.00	
BAG	21.45	256	eP	47	26.10	4.3X
NJ2	22.52	298	Pc	47	33.30	1.3
			S	51	30.00	
MDJ	23.81	337	eP	47	44.00	-0.4
			eS	51	45.00	
SNY	24.31	324	Pc	47	48.00	-1.1
	1.2s		35.00nm			4.8mb
Z	15s		0.50um			4.1MszX
N	16s		0.50um			
E	14s		0.60um			
			sS	52	39.00	
CN2	24.83	330	eP	47	54.00	0.0
TIA	25.34	307	eP	47	58.50	-0.3
Z	18s		0.40um			4.0Msz
			eS	52	16.00	
WHN	25.92	293	eP	48	05.00	0.8
BJI	27.73	314	eP	48	19.00	-1.5
			eS	52	44.00	
TIY	29.38	307	Pc	48	36.00	0.6
Z	20s		0.60um			4.2Msz
N	11s		0.50um			
XAN	31.09	298	P	48	50.00	-0.5
HHC	31.23	312	P	48	50.60	-1.1
BTQ	32.20	310	eP	49	00.80	0.7
GYA	32.41	283	P	49	02.60	0.5
Z	36s		1.30um			4.4MszX
			S	54	06.00	
PMG	32.70	171	eP	49	05.00	0.6
CD2	35.02	291	eP	49	24.00	-0.4
LZH	35.57	300	Pc	49	29.50	0.4
	2.0s		71.00nm			5.1mb
Z	20s		0.39um			4.2Msz
N	15s		0.71um			
			PP	50	53.00	
			eS	54	47.00	
MTN	37.38	198	eP	49	44.00	-0.2
	0.3s		53.00nm			5.8mb
GTA	39.34	304	eP	50	00.00	-0.6
	1.2s		10.00nm			4.4mb
Z	22s		0.30um			4.1Msz
N	12s		0.30um			
			S	55	49.60	
QIS	43.50	184	iPd	50	34.00	-0.5
	0.6s		19.00nm			4.9mb
SHL	45.73	284	iP	50	52.40	-0.1
LSA	45.93	290	P	50	55.20	0.8
ASPA	47.22	190	iPd	51	02.50	-1.5
	0.7s		32.60nm			5.1mb
Z	22s		0.20um			4.0Msz
			iS	57	43.30	
WMO	49.01	309	iPc	51	18.50	0.8
	1.5s		100.00nm			5.3mb
GUN	50.72	288	P	51	32.00	0.7
	0.6s		32.00nm			5.3mb
DZM	50.73	151	iPc	51	30.30	-0.7
PKI	51.18	287	P	51	34.50	-0.3
	0.7s		18.00nm			4.9mb
BRS	51.25	168	iPd	51	34.20	-0.6
KKN	51.26	288	P	51	35.30	0.1
	0.6s		22.00nm			5.1mb
WARB	51.30	198	eP	51	36.00	0.8
DMN	51.44	288	P	51	36.60	-0.1
GKN	51.80	288	P	51	39.10	-0.1
SDN	52.77	37	ePd	51	44.90	-0.8
	0.7s		63.00nm			5.6mb
FORR	55.36	195	iPd	52	05.00	0.2
	0.5s		60.00nm			5.7mb
SVW	56.60	31	ePd	52	14.10	0.6
	0.5s		7.80nm			4.9mb
TTA	56.85	29	eP	52	15.60	0.3
IMA	58.61	25	ePd	52	27.90	0.3
BRW	59.09	19	eP	52	31.40	0.8
PMR	59.76	31	ePd	52	34.40	-0.9
	0.7s		6.90nm			4.7mb
BFD	59.99	180	iPc	52	36.90	-0.1
	1.0s		65.00nm			5.5mb
TOO	60.46	177	eP	52	41.00	0.7
FBA	60.80	27	ePd	52	41.90	-0.5
	0.6s		3.70nm			4.5mb
GBA	61.82	273	Pd	52	48.40	-1.5
	0.7s		2.80nm			4.3mb
KOD	62.93	270	eP	52	57.40	-0.3
POO	63.58	280	eP	52	58.00	-3.5X
MBC	69.69	15	ePd	53	38.10	-1.0
	0.7s		10.00nm			4.8mb
YKA	75.59	28	eP	54	12.80	-1.1
	0.6s		5.80nm			4.5mb
PNT	77.87	41	eP	54	27.00	0.2
	0.8s		8.00nm			4.5mb
SOD	78.10	339	eP	54	43.00	15.3X
WDC	79.08	51	eP	54	33.30	-0.3
MIN	79.83	51	eP	54	37.40	-0.4
ORV	80.20	51	eP	54	38.00	-1.6
BKS	80.28	53	eP	54	39.70	-0.3
	0.7s		15.00nm			4.8mb
KAF	81.06	335	eP	54	42.80	-0.8
	0.5s		4.70nm			4.5mb
PRS	81.50	54	eP	54	47.00	0.6
CMB	81.58	52	eP	54	47.20	0.3
PRI	82.10	54	eP	54	52.50	2.8X
FRI	82.48	53	eP	54	51.70	0.2
SES	82.49	38	eP	54	51.00	-0.3
			pP	55	15.00	90kmX
NUR	82.62	334	eP	54	53.00	1.3
LRM	83.72	43	ePc	54	58.30	0.3
ISA	83.92	54	eP	55	00.00	1.0
CLC	84.51	53	eP	55	02.00	0.1
SBB	84.81	55	eP	55	04.00	0.6
FFC	85.07	32	eP	55	04.50	0.3
	0.7s		17.00nm			5.0mb
GSC	85.31	54	eP	55	07.00	1.1
PLM	86.09	55	eP	55	11.00	1.1
			e	55	50.00	155km
TPC	86.38	55	eP	55	06.00	-5.2X
HFS	87.07	337	eP	55	12.60	-1.3
	0.5s		3.90nm			4.6mb
NB2	87.30	338	P	55	13.60	-1.5
	0.9s		4.50nm			4.4mb
GLA	B7.76	55	eP	55	18.00	0.2
FRB	90.10	13	eP	55	28.00	-0.2
			pP	56	05.00	145km
KSP	92.33	329	eP	55	40.70	2.0
ALQ	92.98	50	eP	55	43.00	0.7
	1.0s		6.25nm			4.8mb
			e	56	18.00	136km
LNV	148.66	118	ePKP	02	18.00	6.5X
PEL	149.40	116	iPKPc	02	18.10	5.3X
ZOBO	150.64	82	ePKP	02	16.00	0.3
LPB	150.75	83	ePKP	02	19.00	3.3X
CNCB	150.94	83	PKP	02	20.00	3.9X
CCH	152.78	83	PKP	02	38.50	20.0X
SIV	156.92	76	ePKP	02	24.00	0.3
			i	02	40.00	
	S.D. = 0.8		on	71	of 85	obs.

? JAN 24, 1991 09h 45m 14.74± 6.76s
4.053 N ±25.1km 77.314 W ±53.1km
DEPTH = 33.0km (normal)
NEAR WEST COAST OF COLOMBIA (102)
MD 2.9 (UVC).

ANCC	0.70	140	iPc	45	28.69	0.5
			eS	45	39.00	
CLMC	0.77	103	iPc	45	29.64	0.4
			eS	45	40.70	
HOOC	0.89	131	ePc	45	30.68	-0.5
			eS	45	42.50	

24d 09h

BUGC	1.07	99	eP	45	33.44	-0.1
			eS	45	47.40	
HOBC	1.21	76	eP	45	35.47	-0.1
SALC	1.24	150	eP	45	35.86	-0.1
			eS	45	51.60	
DIAC	1.35	124	ePc	45	37.47	-0.1

S.D. = 0.4 on 7 of 7 obs.

% JAN 24, 1991 11h 03m 27.48± 0.71s
43.450 N ± 5.2km 5.463 E ± 5.9km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
MD 2.6 (STR).

GELF	0.07	201	Pg	03	29.52	-0.4
TREF	0.18	342	Pg	03	31.36	-0.2
PUYF	0.19	64	Pg	03	31.52	-0.2
BERF	0.22	129	Pg	03	32.68	0.5
PRAF	0.41	329	Pg	03	36.39	0.4
VILF	0.44	24	Pg	03	36.48	0.0
TAVF	0.46	69	Pg	03	36.82	-0.1

S.D. = 0.4 on 7 of 7 obs.

JAN 24, 1991 12h 07m 58.05± 0.56s
34.923 N ± 6.7km 104.324 E ± 6.7km
DEPTH = 33.0km (normal)
4.0mb (2 obs.)
GANSU PROVINCE, CHINA (322)
ML 4.1 (BJI).

LZH	1.23	342	Pg	08	19.50	0.4
			Sg	08	35.00	
XAN	3.90	102	iPnc	08	57.00	-0.2
			Pg	09	09.30	
			Sg	10	01.00	
CD2	4.03	187	Pn	09	00.00	0.9
			Pg	09	11.50	
			Sn	09	48.00	
			Sg	10	05.20	
GTA	5.75	323	Pn	09	23.80	0.4
			Pg	09	43.20	
			Sn	10	28.80	
			Sg	10	53.60	
TIY	7.11	65	Pgc	10	04.50	21.9X
			Sg	11	33.30	
HHC	8.23	42	eP	09	57.30	-0.9
			pP	10	05.60	
			S	11	29.40	
			S	11	37.80	
WMQ	15.61	310	eP	11	37.60	0.4
GUN	17.21	251	P	11	56.80	-1.1
PKI	17.74	251	P	12	04.00	-0.5
NB2	61.57	326	P	18	13.80	-0.3
	0.6s		1.80nm			4.4mb
YKA	78.00	17	eP	19	55.00	0.7
	0.9s		0.70nm			3.7mb

S.D. = 0.8 on 10 of 11 obs.

JAN 24, 1991 12h 55m 51.21± 0.24s
13.138 S ± 3.9km 23.227 E ± 7.1km
DEPTH = 10.0km (geophysicist)
4.9mb (22 obs.) 4.0Msz (3 obs.)
ZAMBIA (576)

KRI	7.18	122	iPe	57	30.00	-9.0X
			iPg	57	41.00	
			iSg	58	47.00	
BUL	8.67	144	iPnc	58	03.80	4.0X
			i	58	11.50	
			i	58	19.50	
			iSn	59	34.50	
			iSg	00	26.50	
WIN	11.04	211	iPd	58	33.00	0.5
	1.4s		813.95nm			6.9mb X
			S	00	34.00	
LWI	12.15	27	iPc	58	45.00	-2.6X
			iS	00	53.00	
SLR	13.40	160	iPd	59	03.60	-0.6
	0.9s		75.63nm			5.7mb X
			S	01	24.40	
SEK	15.66	165	iPc	59	33.00	-0.7
	1.0s		340.00nm			5.5mb X
			i	02	02.50	
NPA	15.66	99	eP	59	40.00	6.2X
			i	03	26.70	
			i	04	12.30	
BLF	16.13	171	iPd	59	38.00	-1.8
	0.9s		76.92nm			4.8mb
			S	02	28.50	
HVD	17.51	173	iPc	59	55.50	-1.7
	0.9s		42.02nm			4.6mb
			S	03	01.00	
NAI	17.88	50	eP	00	11.00	9.0X
BCAO	18.07	345	iPc	00	02.10	-2.0
	0.4s		8.00nm			4.2mb
			iS	03	23.30	
			Lg	05	23.10	
CER	20.45	189	eP	00	33.20	1.6
	1.0s		220.00nm			5.5mb
			i	04	03.00	
KIC	33.87	303	P	02	36.18	-0.2
	0.7s		9.00nm			4.8mb
LIC	34.03	303	P	02	37.36	-0.4
	0.6s		7.00nm			4.8mb
Z	20s		0.10um			3.5Msz
TIC	34.26	303	P	02	39.62	-0.2
OHR	54.02	358	eP	05	17.00	-0.8
SKO	54.86	358	iP	05	24.00	0.0
FRF	58.42	346	eP	05	49.50	0.1
VRI	58.81	3	ePc	05	50.00	-2.1
PTJ	59.13	354	eP	05	53.70	-0.6
EPF	59.70	341	eP	05	58.60	0.3
G8A	59.92	66	P	06	01.00	0.8
OUE	60.23	44	eP	06	04.20	1.9
	1.0s		25.50nm			5.3mb
			ePP	06	15.60	
LPG	60.23	347	eP	06	02.10	-0.1
LPL	60.25	347	eP	06	02.00	-0.3
CAF	60.89	343	eP	06	06.70	0.3
	0.9s		7.35nm			4.8mb
LPO	60.93	342	eP	06	06.80	0.2
SOTA	61.04	351	iPc	06	07.70	0.2
	0.9s		15.40nm			5.1mb
			i	06	12.40	
			i	06	16.50	
			i	06	19.10	
LFF	61.30	342	eP	06	09.30	0.2
RJF	61.40	343	eP	06	09.80	0.0
Z	20s		0.17um			4.2Msz
MAF	61.94	344	eP	06	13.70	0.2
SMF	62.00	345	eP	06	13.80	-0.1
	0.8s		9.40nm			5.0mb
TCF	62.10	344	eP	06	14.80	0.2
AVF	62.26	345	eP	06	15.60	0.0
	1.0s		16.00nm			5.2mb
LBF	62.29	345	eP	06	15.30	-0.5
BSF	62.44	348	eP	06	16.50	-0.4
SSF	62.48	345	eP	06	16.50	-0.5
	0.8s		6.70nm			4.9mb
KHC	62.58	353	P	06	18.00	0.3
	1.0s		7.00nm			4.8mb
			e	06	26.30	
LOR	62.58	345	eP	06	17.10	-0.6
Z	19s		0.13um			4.1Msz
WET	62.68	352	iPc	06	18.90	0.6
CDF	62.89	348	eP	06	19.20	-0.6
PRU	63.31	354	eP	06	23.00	0.6
			e	06	31.00	
LPF	64.62	342	eP	06	30.80	-0.2
	0.8s		8.05nm			5.0mb
CLL	64.79	353	e(P)	06	32.00	-0.1
LDF	64.86	343	eP	06	31.90	-0.7
GRR	64.88	343	eP	06	32.30	-0.5
	0.9s		9.85nm			5.0mb
EKA	71.74	344	Pc	07	16.80	1.4
	0.8s		3.50nm			4.5mb
GKN	72.14	55	P	07	18.60	0.1
	0.8s		44.00nm			5.6mb
DMN	72.34	55	P	07	19.80	0.0
KKN	72.56	55	P	07	21.20	0.1
	0.7s		33.00nm			5.5mb
PKI	72.57	55	P	07	21.40	0.1
	0.6s		14.00nm			5.2mb
GUN	73.09	55	P	07	24.60	0.3
NUR	73.40	1	eP	07	25.00	0.0
NB2	74.55	354	P	07	38.40	6.7X
	0.9s		2.10nm			4.2mb
KAF	75.04	1	eP	07	35.10	0.7
SOD	80.32	1	eP	08	13.00	9.5X
CHG	81.07	68	ePd	08	10.00	1.5
	1.0s		12.00nm			4.9mb
SIV	81.09	256	P	08	10.60	1.9
CNCB	87.41	253	P	08	43.00	1.7
LPB	87.58	254	eP	08	32.00	-9.9X
ZOBO	87.66	254	P	08	43.00	0.5
	1.0s		4.50nm			4.7mb
YKA	122.36	338	ePKP	14	47.00	-0.7
	0.8s		1.00nm			

S.D. = 0.9 on 54 of 62 obs.

JAN 24, 1991 14h 06m 43.45± 0.54s
40.674 N ± 5.2km 28.348 E ± 4.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.1 (ISK).

KCT	0.42	179	iPg	06	51.70	-0.4
			iSg	06	56.70	
BNT	0.45	226	iPg	06	52.00	-0.7
			eSg	06	59.20	
EDC	0.49	229	iPg	06	53.00	-0.5
ISK	0.67	54	iPg	06	56.60	-0.1
			eSg	07	05.60	
YLV	0.79	97	iPg	06	58.20	-0.6
			iSg	07	09.50	
GBZT	0.84	82	ePg	07	00.00	0.3
			iSg	07	11.50	
HRT	1.01	81	iPg	07	02.60	-0.1
			iSg	07	16.60	
DST	1.09	169	iPn	07	05.00	1.1
DMK	1.23	339	iPn	07	06.30	0.0
EZN	1.76	242	iPn	07	15.20	1.0

S.D. = 0.7 on 10 of 10 obs.

% JAN 24, 1991 14h 56m 03.25± 0.72s
19.999 S ± 7.6km 133.871 E ± 8.4km
DEPTH = 5.0km (geophysicist)
NORTHERN TERRITORY, AUSTRALIA (591)

ASPA	3.65	180	iPc	57	07.50	5.9X
	0.3s		110.80nm			
QIS	5.41	97	iPc	57	26.90	0.2
			eS	58	26.00	
KNA	6.44	310	eP	57	42.00	0.9
			eS	58	55.00	
MTN	7.58	339	eP	57	56.30	-0.8
	0.4s		32.00nm			5.9mb X
			eS	59	19.20	
WARB	9.06	226	eP	58	20.90	3.1X
	0.3s		2.00nm			5.0mb X
			eS	00	00.00	
FORR	11.99	205	eP	58	57.50	-0.3
MRWA	18.65	237	eP	00	23.80	-0.1
			eS	02	53.00	
NWAO	19.65	226	eP	00	36.00	0.0
			eS	03	05.00	
MUN	19.83	229	eP	00	38.00	0.2
			eS	03	07.00	

S.D. = 0.6 on 7 of 9 obs.

? JAN 24, 1991 15h 13m 20.39± 0.93s
41.112 N ±11.2km 28.752 E ± 7.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

ISK	0.24	101	ePg	13	25.00	-0.4
			eSg	13	30.00	
HRT	0.75	112	iPg	13	35.60	0.5
			eSg	13	47.00	
BNT	0.98	220	ePn	13	39.00	-0.1
DMK	1.03	314	iPn	13	39.90	0.0

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

JAN 24, 1991 16h 32m 33.25± 0.62s
37.104 N ± 5.3km 31.007 E ± 6.8km
DEPTH = 116.0 ± 14.2 km
TURKEY (366)
MD 3.7 (ISK).

BCK	0.49	317	iPg	32	50.80	-0.2
ELL	0.95	248	iPn	32	55.00	0.1
			iSg	33	08.00	
KSL	1.51	230	iPbd	33	01.40	0.5
KHL	1.69	316	iPn	33	02.10	-1.1
			iSg	33	24.10	
ALT	2.07	340	ePn	33	07.50	-0.5
PPCY	2.47	154	eP	33	13.30	0.3
ARG	2.48	250	ePn	33	13.50	0.3
			eSn	33	40.50	
CSS	2.85	138	eP	33	18.00	-0.1

BBTK	3.06	26	iPd	33	22.00	1.0
			iS	33	57.00	
DST	3.12	324	iPn	33	22.00	0.2
IZM	3.24	295	ePn	33	23.60	0.3
ADI	5.30	138	eP	33	51.00	-0.4
ZNT	5.88	144	eP	34	00.00	0.7
RMN	7.24	154	eP	34	17.00	-1.1
			eS	35	32.00	

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

? JAN 24, 1991 16h 48m 11.36± 3.54s
30.249 N ±20.5km 141.067 E ±27.6km
DEPTH = 64.6 ± 30.0 km
3.9mb (3 obs.)
SOUTH OF HONSHU, JAPAN (211)

IIDJ	5.85	334	P	49	39.00	1.4
KAKJ	5.99	353	P	49	39.00	-0.4
CHJJ	6.04	344	P	49	38.80	-1.4
			eS	50	45.50	
MAT	6.72	340	eP	49	51.00	1.4
	0.9s		20.17nm			4.7mb X
			eS	51	05.00	
NIIJ	7.18	347	P	49	55.00	-1.0
YAMJ	7.95	354	eP	50	03.40	-3.3X
OFUJ	8.82	3	eP	50	14.90	-3.8X
			eS	51	42.70	
CHG	39.77	263	eP	55	38.90	-0.8
ASPA	54.05	188	eP	57	31.70	0.3
	0.7s		4.70nm			4.6mb
YKA	69.85	29	eP	59	16.90	0.2
	0.9s		0.50nm			3.4mb
NB2	80.33	338	P	00	16.90	0.3
	0.7s		1.00nm			3.9mb

S.D. = 1.3 on 9 of 11 obs.

• JAN 24, 1991 18h 26m 44.56± 0.43s
16.483 S ±10.9km 172.342 W ±15.2km
DEPTH = 33.0km (normal)
4.8mb (8 obs.) 4.8Msz (3 obs.)
SAMOA ISLANDS REGION (169)

AFI	2.62	12	P	27	23.00	-2.5
			eS	27	50.00	
			eLR	30	22.00	
DZM	20.77	251	iPd	31	21.00	-4.5X
LTZ	29.33	204	eP	32	46.30	-0.1
TOO	42.59	232	e(P)	34	34.00	-5.3X
ASPA	50.75	253	eP	35	36.60	-7.2X
	1.0s		22.10nm			5.1mb
	Z 18s		0.80um			4.8Msz
MUN	65.92	242	eP	37	25.00	-4.8X
CMB	72.91	41	eP	38	13.30	0.7
SPA	73.62	180	iPc	38	13.70	-2.7
	1.0s		7.50nm			4.6mb
TNP	74.95	42	P	38	24.80	0.2
	0.9s		7.49nm			4.7mb
PDB	77.42	9	P	38	36.00	-1.7
RSO	78.29	10	iP	38	43.00	0.2
MSU	78.49	44	P	38	46.00	1.6
SLKM	78.77	11	eP	38	46.00	0.8
PMR	79.98	11	ePd	38	52.30	0.7
	0.9s		10.50nm			4.8mb
TTA	80.18	8	P	38	53.00	0.2
	1.0s		10.00nm			4.8mb
TOA	81.02	12	eP	39	10.60	13.3X
RND	81.71	10	eP	39	06.60	5.8X
BW06	82.40	41	P	39	04.50	-0.6
CN2	82.56	320	P	39	05.50	-0.1
FBA	83.27	10	ePd	39	09.60	0.8
	0.9s		12.80nm			5.0mb
IMA	83.49	8	P	39	10.00	-0.1
SES	85.51	34	eP	39	21.00	0.6
BJI	86.95	313	eP	39	28.00	0.4
	1.4s		33.00nm			5.4mb
			sP	39	42.50	
TIY	88.72	310	eP	39	37.00	0.7
GYA	89.45	298	P	39	40.20	0.1
XAN	90.09	305	P	39	42.50	-0.3
YKA	90.68	23	eP	39	44.50	-0.3
	0.8s		1.40nm			4.3mb
KMI	92.41	295	Pc	39	54.00	0.1
			pP	40	00.00	19kmX
CHG	94.01	288	eP	40	01.00	-0.1
CLL	144.99	354	iPKP	46	19.80	-0.1
KSP	145.03	350	ePKP	46	20.50	0.5
			e	46	42.30	
KRA	145.07	346	ePKP	46	18.90	-1.2
			e	46	35.80	
BRG	145.32	353	ePKP	46	20.00	-0.5
	1.6s		25.00nm			
MOX	145.77	356	ePKP	46	21.50	0.2
PRU	146.12	352	ePKP	46	21.50	-0.4
			e	46	23.50	
			e	46	42.50	
VRI	146.65	335	ePKPd	46	26.00	3.1X
GRF	146.75	356	ePKP	46	25.60	2.7X
	Z 19s		0.10um			4.6Msz
KHC	147.08	353	iPKP	46	26.50	3.0X
FLN	147.13	10	ePKP	46	25.20	1.7
	0.7s		7.70nm			
	Z 10s		0.13um			5.0MszX
MLR	147.27	336	ePKP	46	27.00	2.9X
LDF	147.35	10	ePKP	46	25.80	1.9X
	0.6s		5.40nm			
GRR	147.42	11	ePKP	46	26.30	2.3X
	0.6s		6.30nm			
ZST	147.44	348	ePKP	46	26.60	2.6X
SRO	147.55	347	ePKP	46	25.50	1.3
LPF	147.74	11	ePKP	46	27.10	2.6X
	0.8s		9.40nm			
CDF	148.16	0	ePKP	46	28.50	3.2X
HAU	148.55	2	ePKP	46	29.40	3.5X
LOR	149.14	5	ePKP	46	31.00	4.2X
	0.5s		2.55nm			
	Z 19s		0.17um			4.9Msz
SSF	149.32	6	ePKP	46	31.60	4.5X
	0.8s		5.35nm			
LBF	149.43	5	ePKP	46	31.70	4.4X
	0.6s		3.60nm			
AVF	149.57	6	ePKP	46	31.90	4.5X
	0.8s		4.70nm			
BGF	149.75	7	ePKP	46	32.50	4.8X
	0.9s		6.55nm			
LSF	149.88	8	ePKP	46	33.30	5.3X
	0.7s		4.95nm			
TCF	149.94	8	ePKP	46	33.80	5.7X
MAF	150.05	7	ePKP	46	33.30	5.1X
	0.6s		3.15nm			
LPL	151.04	1	ePKP	46	36.60	6.6X
LPG	151.06	1	ePKP	46	36.80	6.7X
	0.8s		6.70nm			
SKO	151.97	338	ePKP	46	35.00	3.8X
OHR	152.96	338	ePKP	46	39.00	6.3X

S.D. = 1.0 on 31 of 59 obs.

? JAN 24, 1991 18h 44m 57.36± 3.98s
48.337 N ±14.4km 1.914 W ±27.0km
DEPTH = 5.0km (geophysicist)
FRANCE (538)
ML 2.5 (LDG).

LPF	0.66	117	Pn	45	09.80	-0.7
			Pg	45	11.20	
			Sg	45	28.60	
GRR	0.71	85	Pg	45	12.40	0.9
			Sg	45	30.50	
FLN	1.04	65	Pg	45	16.80	-0.7
			Sg	45	38.90	
LDF	1.22	77	Pg	45	20.70	0.2
			Sg	45	45.20	
MFF	2.11	145	Pg	45	34.10	0.4
			Sg	46	06.80	

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

JAN 24, 1991 19h 39m 05.02± 0.77s
39.859 N ± 5.9km 30.206 E ± 7.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.3 (ISK).

GPA	0.44	10	iPg	39	12.00	-1.9
			iSg	39	20.80	
ALT	0.81	185	iPg	39	19.70	-1.0
			iSg	39	30.70	
YLV	0.95	318	iPg	39	23.40	0.2
			iSg	39	39.40	
HRT	1.05	337	ePg	39	23.90	-0.9
			eSg	39	39.90	
GBZT	1.10	328	ePn	39	26.50	0.9
			iSg	39	44.50	
DST	1.24	259	iPn	39	28.60	0.5
KCT	1.47	286	ePn	39	32.00	0 4
ISK	1.49	324	ePn	39	31.50	-0.3
KHL	1.62	199	ePn	39	32.70	-1.1
BNT	1.82	287	ePn	39	38.00	1.4
EDC	1.86	286	iPn	39	37.00	-0.2
BBTK	1.97	90	eP	39	41.00	2.1
			iS	40	03.00	

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

JAN 24, 1991 20h 01m 18.18± 0.91s
2.266 N ± 3.4km 126.718 E ± 6.0km
DEPTH = 54.1 ± 8.4 km
5.4mb (33 obs.) 4.2Msz (3 obs.)
MOLUCCA PASSAGE (266)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 27C
Centroid Location:
Origin Time 20:01:24.4 0.4
Lat 2.56N 0.06 Lon 126.58E 0.06
Dep 39.9 3.5 Half-durotion 2.0
Moment Tensor; Scale 10**17 Nm
Mrr= 1.00 0.06 Mtt=-0.07 0.07
Mff=-0.94 0.09 Mrt=-0.19 0.11
Mrf=-0.34 0.10 Mtf=-0.79 0.06
Principal Axes:
T Val= 1.06 Plg=81 Azm=114
N 0.40 1 210
P -1.46 9 301
Best Double Couple:Mo=1.3*10**17
NP1:Strike= 32 Dip=36 Slip= 92
NP2: 210 54 89

MNI	2.05	246	ePd	01	53.50	2.7
			eS	02	16.00	
DAV	4.92	347	eP	02	32.00	0.5
CGP	6.47	342	ePc	02	54.00	0.9
			eS	04	24.50	
MAP	8.45	341	ePc	03	20.00	-0.7
TSM	8.85	283	ePd	03	29.90	3.8X
	0.8s		321.00nm			6.3mb
MKS	10.38	224	ePd	03	49.00	1.9
PPR	10.89	314	ePc	03	56.00	1.9
KKM	11.13	290	ePd	04	01.00	3.6X
	1.0s		152.40nm			6.0mb X
PGP	12.54	333	ePd	04	20.00	3.9X
OCP	13.49	336	eP	04	44.00	15.2X
JAY	14.77	109	ePc	04	51.00	5.5X
	0.7s		56.10nm			5.0mb
BAG	15.30	337	eP	04	48.00	-4.5X
MTN	15.64	164	eP	04	54.40	-2.3
PIP	17.04	340	eP	05	14.00	-0.4
KNA	18.01	174	eP	05	25.60	-0.8
PMG	23.43	120	e(P)	06	22.00	-1.5
QIZ	23.46	316	P	06	23.00	-0.8
	1.0s		40.00nm			4.8mb
			sP	06	40.50	
			PP	06	55.00	
			eS	10	30.00	
OZH	23.87	342	eP	06	26.60	-1.1
	Z 30s		4.70um			4.8MszX
	N 30s		6.20um			
M8L	24.24	196	eP	06	33.00	1.7
	0.4s		16.00nm			4.9mb
GZH	24.42	329	Pc	06	33.00	-0.1
IPM	25.75	276	ePc	06	45.10	-0.6
SNG	26.46	282	eP	07	10.00	17.8X
ASPA	26.71	165	iPc	06	52.90	-1.6
	0.5s		33.90nm			5.2mb
	Z 22s		0.70um			4.2Msz
			eS	11	25.20	
			iScS	17	37.90	
WARB	28.28	180	eP	07	09.00	0.3
	0.5s		40.00nm			5.3mb
SSE	29.15	350	Pd	07	16.70	0.3
	1.4s		110.00nm			5.3mb
	Z 20s		0.50um			4.1Msz
	E 13s		0.60um			
			S	12	04.00	
NST	29.39	299	eP	07	18.10	-0.6
WHN	30.47	339	ePd	07	29.00	0.9
	1.0s		100.00nm			5.5mb
NJ2	30.54	347	eP	07	29.00	0.3
	Z 24s		0.50um			4.1MszX
			S	12	30.00	
GYA	30.81	323	P	07	31.00	-0.4
	1.6s		100.00nm			5.3mb
			PcP	10	29.40	
			S	12	28.00	

24d 20h

		ScS	18 03.40			
BDT	31.03	300	eP	07 32.40	-0.8	
CHG	31.78	303	ePd	07 39.00	-0.9	
	1.0s	75.00nm		5.5mb		
KMI	32.41	317	Pc	07 46.00	0.5	
	1.5s	150.00nm		5.6mb		
	Z 30s	1.50um		4.5MszX		
		pP	07 56.50	38kmX		
		S	12 51.00			
		iS	12 54.00			
MRWA	32.95	197	eP	07 49.40	-0.5	
	0.4s	5.00nm		4.7mb		
FORR	32.96	178	iPd	07 49.00	-0.9	
	0.4s	82.00nm		5.9mb		
BAL	34.05	196	eP	07 59.00	-0.4	
	0.3s	6.00nm		5.0mb		
TSRJ	34.20	14	P	08 01.00	0.4	
IIDJ	34.64	16	P	08 04.90	0.4	
KLB	34.73	193	eP	08 05.00	-0.2	
	0.5s	22.00nm		5.3mb		
TIA	34.92	346	eP	08 06.50	-0.3	
	Z 27s	0.70um		4.3MszX		
		eS	13 32.50			
CHJJ	35.48	17	P	08 10.70	-0.9	
MUN	35.49	195	eP	08 12.00	0.3	
RMO	35.64	145	eP	08 12.00	-1.1	
		e	10 42.00			
MTMJ	35.65	15	P	08 13.00	-0.1	
XAN	35.71	334	iPc	08 12.50	-1.1	
MAT	35.72	16	iPc	08 12.50	-1.1	
	0.8s	48.51nm		5.5mb		
		eS	13 10.00			
CD2	35.82	325	P	08 13.50	-1.1	
	1.0s	100.00nm		5.7mb		
		eS	13 54.00			
KAKJ	35.99	19	P	08 14.30	-1.5	
NWAO	36.13	194	eP	08 17.00	-0.1	
	0.5s	13.00nm		5.1mb		
NIIJ	36.60	17	P	08 20.20	-0.7	
DL2	36.76	353	P	08 23.50	1.2	
	1.3s	210.00nm		5.9mb		
	Z 15s	0.60um		4.5MszX		
		S	14 03.00			
RKG	37.28	193	eP	08 32.00	5.3X	
TIY	37.64	341	Pc	08 29.50	-0.3	
	0.8s	30.00nm		5.3mb		
	Z 28s	1.90um		4.7MszX		
	N 16s	0.70um				
		S	14 14.00			
YAMJ	37.76	17	P	08 31.00	0.3	
CMS	38.17	153	eP	08 34.00	-0.2	
ADE	38.71	164	eP	08 37.20	-1.6	
BRS	38.72	141	iPd	08 37.20	-1.8	
BJI	38.80	347	eP	08 39.50	0.1	
	1.5s	210.00nm		5.8mb		
	Z 28s	0.69um		4.3MszX		
		eS	14 28.00			
OFUJ	39.10	19	P	08 43.00	1.1	
SNY	39.49	356	iPc	08 46.00	0.9	
	1.2s	100.00nm		5.5mb		
	Z 30s	1.20um		4.6MszX		
		S	14 44.00			
LZH	39.76	331	P	08 47.50	-0.1	
	1.4s	140.00nm		5.6mb		
	Z 30s	2.00um		4.8MszX		
		pP	08 57.50	34kmX		
		PP	10 24.50			
		PcP	10 49.00			
		ScP	14 40.00			
		eS	14 42.00			
AOMJ	40.07	16	eP	08 52.80	2.9X	
COO	40.53	146	iPc	08 53.50	-0.4	
SHL	40.74	308	iP	08 55.00	-0.9	
HHC	40.78	342	P	08 56.40	0.5	
	Z 30s	3.10um		5.0MszX		
		S	15 04.00			
BTO	41.04	341	eP	09 01.00	3.0X	
CN2	41.37	359	eP	09 02.00	1.5	
	Z 20s	0.90um		4.6Msz		
		eS	15 10.00			
		eSS	18 05.00			
BFD	41.91	161	iPc	09 06.90	1.9	
MDJ	42.25	3	Pc	09 09.00	1.3	
	1.5s	200.00nm		5.6mb		
	Z 30s	1.20um		4.6MszX		
		PcP	11 02.70			
		eS	15 25.00			

		SS	18 30.00			
CNB	42.98	152	eP	09 14.00	0.1	
TOO	43.29	158	eP	09 17.00	0.6	
LSA	43.40	313	P	09 17.10	-0.8	
		S	15 41.00			
GTA	44.34	330	eP	09 24.40	-0.6	
	Z 30s	2.30um		4.9MszX		
		pP	09 31.20	23kmX		
		sP	09 33.60			
		PcP	11 09.80			
		ScP	14 57.60			
		PcS	15 02.60			
		S	15 55.00			
		ScS	19 19.40			
DZM	45.72	124	iPd	09 35.90	-0.2	
GUN	46.58	307	P	09 42.40	-0.8	
PKI	46.81	307	P	09 43.80	-1.2	
KKN	47.01	307	P	09 45.20	-1.3	
DMN	47.07	306	P	09 46.00	-1.0	
GKN	47.61	307	P	09 49.80	-1.4	
HYB	49.61	291	iPc	10 05.20	-1.3	
	1.2s	100.00nm		5.7mb		
GBA	49.99	286	P	10 08.00	-1.4	
WMQ	53.91	326	iPc	10 38.00	-0.5	
	0.8s	30.00nm		5.4mb		
	Z 26s	0.70um		4.6MszX		
		pP	10 52.00	51kmX		
		sP	10 56.50			
		PcP	11 42.50			
		eS	18 15.00			
		ScS	20 22.50			
NDI	53.92	304	eP	10 36.50	-2.2	
POO	54.22	291	eP	10 38.50	-2.6X	
QUE	62.92	303	eP	11 40.30	-1.4	
	1.0s	40.00nm		5.5mb		
		e	20 08.40			
TAB	81.04	308	eP	13 30.00	0.8	
PMR	85.23	29	eP	13 50.00	0.1	
	0.8s	29.66nm		5.5mb		
NPA	88.14	255	iP	14 12.60	7.6X	
SOD	91.81	338	eP	14 34.00	12.8X	
MBC	93.37	13	eP	14 29.00	0.7	
	0.7s	6.00nm		5.1mb		
NUR	93.97	331	eP	14 28.00	-3.2X	
VRI	95.34	316	eP	14 43.00	5.1X	
MLR	95.94	316	eP	14 42.00	1.2	
		e	18 40.00			
HFS	99.30	332	eP	14 57.90	2.4	
	0.5s	1.40nm		4.8mb		
NB2	100.08	334	Pdiff	14 58.00	-1.1	
	0.9s	2.80nm		4.8mb		
YKA	100.83	25	ePdiff	15 03.00	0.8	
	0.9s	2.00nm		4.7mb		
BRG	102.40	323	ePdiff	15 13.50	4.0X	
	1.2s	11.00nm		5.4mb		
KHC	103.20	322	ePdiff	15 17.10	3.9X	
SCH	122.03	9	ePKP	20 09.00	0.9	
KIC	130.79	280	PKP	20 27.80	1.7	
LIC	131.09	280	PKP	20 28.20	1.5	
LNV	144.21	154	ePKP	20 49.00	-1.2	
PCH	144.89	155	ePKP	20 51.50	0.0	
PEL	145.22	154	iPKPd	20 53.00	0.9	
	1.0s	80.00nm				
ROCH	145.22	153	ePKP	20 53.50	1.2	
FCH	145.23	155	ePKP	20 54.30	1.9	
UPA	151.55	67	iPKPd	21 10.20	7.8X	
CNCB	159.56	136	PKP	21 15.00	1.6	
LPB	159.67	135	PKP	21 15.00	1.6	
ZOBO	159.82	134	PKP	21 16.00	2.3	
	1.0s	10.00nm				
		LR	17 44.00			
PDCR	162.66	233	ePKP	21 17.20	1.3	
SIV	164.35	151	PKP	21 19.00	1.4	
		i	22 13.00			
SOB1	165.88	240	ePKP	21 22.40	3.5X	
		e	22 22.90			

S.D. = 1.2 on 93 of 112 obs.

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* JAN 24, 1991 21h 00m 28.93± 1.79s
4.821 N ±10.9km 127.385 E ±20.5km
DEPTH = 106.9 ± 15.6 km
4.0mb (1 obs.)
TALAUD ISLANDS (263)

MNI	4.21	217	ePd	01 32.00	-0.1	
CGP	4.49	324	eP	01 36.00	0.0	
			eS	02 35.00		

ASPA	29.02	168	eP	06 21.30	0.3	
	1.1s	4.30nm		4.0mb		
BRS	40.34	144	iPc	07 57.50	-0.2	
GUN	45.63	305	P	08 41.20	0.3	
PKI	45.89	304	P	08 43.00	0.0	
TAB	80.01	308	eP	12 28.00	-0.4	

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

? JAN 24, 1991 21h 33m 17.25± 2.94s
4.661 N ±36.7km 76.099 W ±38.6km
DEPTH = 110.0km (geophysicist)
COLOMBIA (103)
MD 2.8 (UVC).

HOBC	0.31	187	eP	33 34.43	-0.2	
			eS	33 47.70		
CLMC	0.90	211	eP	33 38.95	1.0	
			eS	33 55.70		
HOOC	1.30	204	eP	33 42.38	0.0	
DIAC	1.36	184	eP	33 42.99	0.0	
ANCC	1.37	214	eP	33 42.17	-0.8	
			eS	34 01.30		

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

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* JAN 24, 1991 21h 36m 27.02± 1.72s
33.821 N ±11.7km 141.412 E ±10.5km
DEPTH = 66.2 ± 15.4 km
5.5mb (2 obs.)
OFF EAST COAST OF HONSHU, JAPAN (229)

KAKJ	2.59	337	P	37 08.40	1.1	
			S	37 41.80		
CHJJ	2.98	319	P	37 12.80	-0.1	
			S	37 48.40		
IIDJ	3.33	301	P	37 19.10	1.3	
			S	37 57.60		
MAT	3.77	317	iPc	37 25.00	0.9	
			iS	38 06.70		
NIIJ	3.94	331	iP+	37 26.90	0.6	
			S	38 12.80		
MTMJ	4.04	314	P	37 28.90	1.0	
			S	38 15.70		
YAMJ	4.48	346	P	37 34.60	0.6	
			S	38 24.10		
TSRJ	4.79	292	P	37 37.90	-0.4	
WKYJ	4.85	276	eP	37 38.00	-1.2	
OFUJ	5.25	2	P	37 44.10	-0.7	
			S	38 40.20		
TKSJ	6.13	274	eP	37 56.30	-0.7	
YONJ	6.70	284	eP	38 04.20	-0.8	
AOMJ	6.78	353	P	38 06.40	0.4	
HOOJ	8.68	9	P	38 31.40	-0.8	
			eS	40 01.80		
KUSJ	9.62	15	P	38 42.90	-2.2	
			S	40 23.90		
ASAJ	10.33	5	P	38 53.20	-1.6	
GUN	47.55	279	P	44 58.00	-0.3	
PKI	48.06	278	P	45 01.60	-0.6	
KKN	48.09	279	P	45 02.00	-0.3	
GKN	48.54	279	P	45 05.20	-0.5	
ASPA	57.61	188	iPd	46 12.90	0.4	
	0.4s	19.30nm		5.6mb		
MBL	58.41	204	eP	46 17.20	-0.9	
	0.4s	11.00nm		5.3mb		
GBA	61.01	267	Pc	46 35.20	-0.9	
WARB	61.30	195	eP	46 39.00	1.2	
FORR	65.54	193	eP	47 06.00	0.5	
YKA	66.59	29	eP	47 14.30	2.3	
	0.8s	0.60nm		3.6mb	X	
LRM	76.46	44	eP	48 15.90	4.4X	
NB2	77.15	338	P	48 25.00	10.2X	
	0.8s	2.50nm				
ZOBO	148.20	64	PKP	56 12.00	7.3X	
LPB	148.39	64	ePKP	56 01.00	-3.8X	
CNCB	148.65	65	PKP	56 13.00	7.6X	

S.D. = 1.1 on 26 of 31 obs.

% JAN 24, 1991 23h 00m 52.21± 0.51s
42.369 N ± 4.4km 13.159 E ± 5.1km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

AQU	0.18	95	Pd	00 56.70	0.4	
			eSg	01 00.00		
MNS	0.36	273	Pd	00 59.30	-0.2	
			eSg	01 05.30		
AZI	0.43	152	P	01 00.90	-0.1	

		eSg	01 08.00		
RMP	0.65 212	P	01 04.80	-0.5	
		eSg	01 13.10		
RDP	0.69 208	P	01 07.00	1.0	
		eSg	01 16.80		
ASS	0.79 333	P	01 07.30	-0.3	
		eSg	01 20.20		
SDI	0.82 143	P	01 07.60	-0.6	
		eSg	01 21.50		
ARV	1.14 352	P	01 13.50	0.0	
		eSn	01 30.60		
SFI	1.82 329	P	01 24.20	0.4	
		eSn	01 48.00		

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

& JAN 24, 1991 23h 16m 24.42s
60.065 N 141.524 W
DEPTH = 0.0km
SOUTHEASTERN ALASKA (19)
<AEIC>.

CTGM	0.91 6	iP	16 42.09	-0.4	
		eS	16 56.26		
YKU	1.04 119	iP	16 43.94	-1.1	
BALM	1.06 338	iP	16 44.12	-1.2	
		eS	17 00.94		
HMT	1.39 282	iP	16 49.44	-1.6	
KAIM	1.46 266	eP	16 50.17	-1.9	
RAGM	1.61 283	eP	16 52.21	-2.0	
		eS	17 14.30		
GLB	1.78 322	iP	16 55.11	-1.6	
		eS	17 20.29		
SGAM	1.89 285	eP	16 56.13	-2.1	
CVA	2.16 285	eP	16 59.49	-2.6	
HIN	2.51 280	eP	17 04.02	-3.1	
VLZ	2.60 296	eP	17 05.99	-2.4	
VZW	2.68 294	eP	17 06.64	-3.0	
GLI	2.88 289	eP	17 08.98	-3.4	
TOA	3.05 314	eP	17 12.30	-2.6	
MTU	3.08 271	iP	17 11.91	-3.3	
KNIM	3.11 278	iP	17 11.72	-4.0	
SDG	3.14 324	eP	17 13.35	-2.8	
SCM	3.34 305	eP	17 17.26	-1.8	
PAX	3.47 329	eP	17 18.30	-2.7	

19 obs. associated

? JAN 25, 1991 00h 09m 55.82± 3.85s
4.784 N ±39.8km 76.077 W ±34.8km
DEPTH = 90.0km (geophysicist)
COLOMBIA (103)
MD 2.9 (UVC).

HOBC	0.43 188	eP	10 10.54	0.1	
		eS	10 22.20		
CLMC	1.02 208	eP	10 16.17	0.0	
HOOC	1.42 203	eP	10 20.90	-0.3	
		eS	10 40.30		
ANCC	1.49 212	eP	10 21.59	-0.3	
		eS	10 41.50		
DIAC	1.49 185	eP	10 21.58	-0.4	
		eS	10 41.30		
SALC	1.90 199	eP	10 28.35	0.9	

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

JAN 25, 1991 00h 10m 11.14± 0.44s
39.284 N ± 3.9km 22.922 E ± 5.1km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 3.2 (ATH).

NEO	0.23 84	iPgd	10 16.00	-0.2	
		eSg	10 20.00		
PAIG	0.87 42	ePd	10 28.12	0.3	
		eS	10 41.44		
LIT	0.88 338	iPc	10 27.38	-0.7	
		iS	10 41.04		
EVR	0.94 247	ePb	10 28.80	-0.4	
		eSg	10 40.00		
PLG	1.16 20	ePb	10 33.00	0.1	
		eSb	10 50.50		
THE	1.35 1	ePc	10 36.08	0.2	
KZN	1.35 319	iPbc	10 36.00	-0.1	
ATH	1.45 154	iPnd	10 38.50	1.1	
GRG	1.72 347	ePd	10 41.12	-0.2	
		iS	11 05.52		
KNT	1.88 359	ePd	10 43.48	-0.1	
		eS	11 10.00		
SRS	1.90 15	ePc	10 44.08	0.2	
VLS	2.13 240	ePb	10 49.00	1.7	
ITM	2.24 201	ePn	10 48.70	-0.2	
OHR	2.44 319	ePn	10 51.70	-0.1	
	1.0s	75.00nm			
		eSn	11 28.50		
		Lg	11 40.60		
VLI	2.56 180	ePn	10 51.50	-1.9	

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

% JAN 25, 1991 02h 30m 16.00± 0.81s
38.837 N ± 7.7km 27.851 E ± 9.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.8 (ISK).

IZM	0.64 227	iPg	30 28.90	0.1	
		iSg	30 37.40		
DST	0.98 38	iPn	30 34.90	0.3	
KHL	1.41 111	ePn	30 41.60	-0.1	
EDC	1.51 0	ePn	30 43.00	-0.1	
BNT	1.52 2	ePn	30 43.00	-0.2	

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

JAN 25, 1991 03h 23m 35.88± 0.60s
42.761 N ± 5.5km 27.824 E ±11.5km
DEPTH = 10.0km (geophysicist)
BULGARIA (359)
MD 3.4 (ISK).

DMK	0.94 183	iPg	23 53.70	-0.1	
		iSg	24 08.70		
TLB	1.83 5	eP	24 06.00	-1.6	
ISK	1.93 151	ePn	24 09.00	0.0	
GBZT	2.31 148	ePn	24 17.00	2.4X	
HRT	2.38 144	ePn	24 16.00	0.4	
BNT	2.40 178	ePn	24 16.00	0.1	
EDC	2.41 179	ePn	24 16.00	0.0	
CFR	2.44 5	eP	24 12.00	-4.3X	
YLV	2.48 152	ePn	24 18.10	1.1	
ISR	2.55 339	eP	24 04.50	-13.5X	
MLR	3.05 334	eP	24 32.00	6.9X	
EZN	3.14 202	ePn	24 25.00	-1.3	
VRI	3.21 346	eP	24 28.00	0.7	
DST	3.21 169	ePn	24 27.00	-0.4	
CMP	3.21 322	ePc	24 22.00	-5.4X	
DRA	3.22 308	eP	24 33.00	5.6X	
CVO	3.28 339	eP	24 39.00	10.6X	
TNR	3.86 320	ePd	24 53.00	16.5X	
BZS	5.30 305	ePc	24 58.00	1.1	

S.D. = 1.0 on 11 of 19 obs.

& JAN 25, 1991 04h 22m 44.16s
61.973 N 150.376 W
DEPTH = 50.7km
SOUTHERN ALASKA (2)
<AEIC>.

PWA	0.40 144	iP	22 54.39	0.0	
		eS	23 02.82		
CUT	0.44 7	iP	22 54.27	-0.5	
SUA	0.54 199	eP	22 56.14	0.0	
		eS	23 06.00		
PLRM	0.70 122	eP	22 57.16	-0.9	
		eS	23 08.06		
GHO	0.72 106	iP	22 57.76	-0.6	
		eS	23 08.42		
PMS	0.83 152	eP	22 59.18	-0.6	
		eS	23 11.69		
HUR	1.07 18	eP	23 02.09	-0.9	
		eS	23 16.57		
CRP	1.11 231	eP	23 03.67	-0.1	
		eS	23 18.18		
SPU	1.13 226	eP	23 03.24	-0.7	
		eS	23 18.48		
BGL	1.20 234	eP	23 04.72	-0.2	
CKL	1.22 231	eP	23 04.54	-0.7	
NKA	1.30 199	eP	23 06.50	0.2	
SLKM	1.47 177	eP	23 07.45	-1.3	
RDT	1.71 216	eP	23 10.96	-1.2	
RDN	1.86 219	eP	23 12.22	-2.1	
REF	1.87 218	eP	23 12.59	-1.8	
NCT	1.88 222	eP	23 14.16	-0.3	
RSO	1.90 218	eP	23 14.58	-0.4	
RS2	1.90 218	eP	23 15.59	0.6	
GLI	1.92 123	eP	23 12.65	-2.4	
TOA	1.99 84	eP	23 14.96	-1.0	
VZW	2.05 115	eP	23 15.62	-1.2	
KNIM	2.07 141	eP	23 13.85	-3.3	
VLZ	2.11 112	eP	23 14.77	-2.9	
KLU	2.17 101	eP	23 16.73	-1.9	
SDG	2.33 74	eP	23 20.03	-0.8	
TZL	2.34 86	eP	23 19.41	-1.5	

27 obs. associated

• JAN 25, 1991 04h 42m 33.97± 1.08s
36.450 N ±16.4km 21.543 E ± 8.3km
DEPTH = 33.0km (normal)
SOUTHERN GREECE (368)
MD 3.3 (ATH).

ITM	0.79 23	iPgc	42 49.50	0.8	
VLI	1.15 76	ePb	42 52.50	-1.3	
VLS	1.88 336	ePb	43 13.50	9.1X	
VAM	2.39 115	ePn	43 12.50	0.8	
EVR	2.47 5	ePn	43 18.00	5.1X	
SOI	4.67 292	Pd	43 43.90	0.0	
		eSn	44 44.00		
ATN	5.14 291	Pd	43 50.40	-0.3	

S.D. = 1.3 on 5 of 7 obs.

? JAN 25, 1991 05h 15m 27.50± 2.27s
37.622 N ±19.9km 20.917 E ±25.0km
DEPTH = 10.0km (geophysicist)
IONIAN SEA (399)
MD 2.7 (ATH).

VLS	0.61 335	eP	15 40.00	0.2	
ITM	0.92 118	eP	15 46.00	1.0	
		eS	15 59.50		
EVR	1.47 28	eP	15 54.00	-0.1	
		eS	16 12.20		
VLI	1.85 119	eP	15 58.50	-1.0	

S.D. = 1.4 on 4 of 4 obs.

? JAN 25, 1991 05h 51m 53.43± 1.34s
8.568 N ±36.2km 75.068 W ± 9.6km
DEPTH = 94.8 ± 37.2 km
NORTHERN COLOMBIA (99)

SDV	4.39 86	ePn	53 00.00	0.7	
		iSn	53 50.10		
ECO	4.64 280	iP	53 02.60	0.1	
		S	53 56.60		
TOV	5.35 77	ePn	53 12.40	0.0	
		eSn	54 14.60		
LLAV	8.36 76	eP	53 52.90	-1.0	
GUAN	9.40 81	eP	54 04.60	-3.4X	
ZOBO	25.62 164	P	57 16.00	-0.4	
LPB	25.87 165	P	57 24.00	5.4X	
CNCB	26.17 164	P	57 20.00	-1.5	
CCH	27.25 161	eP	57 32.50	1.4	
SOB1	38.34 117	eP	59 07.70	0.6	

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

• JAN 25, 1991 06h 07m 38.11± 0.87s
41.870 N ±11.0km 20.385 E ±12.4km
DEPTH = 10.0km (geophysicist)
ALBANIA (391)
ML 2.1 (TTG).

PVY	0.79 337	ePg	07 52.00	-1.5	
		eSg	08 04.00		
OHR	0.82 158	iPgc	07 53.30	-0.7	
	0.3s	81.00nm			
		i	08 04.90		
		iSg	08 05.80		
TTG	1.01 304	ePg	07 56.70	-0.4	
		eSg	08 10.80		
IVA	1.06 340	ePg	07 59.00	0.8	
		eSg	08 16.20		
HCY	1.52 293	ePg	08 06.50	1.2	
		eSg	08 30.50		
VAY	1.73 108	ePn	08 09.00	0.6	

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

& JAN 25, 1991 07h 15m 48.96s
62.585 N 150.896 W
DEPTH = 81.1km
CENTRAL ALASKA (1)
<AEIC>.

CUT	0.34 122	iP	16 02.01	0.2	
HUR	0.70 55	iP	16 05.00	0.1	

25d 07h

		eS	16	16.77	
PWA	1.05	153 eP	16	08.89	-0.1
SUA	1.13	176 eP	16	09.90	-0.1
GHO	1.23	131 eP	16	11.48	0.1
		eS	16	28.40	
RND	1.24	48 eP	16	11.24	-0.2
		eS	16	27.45	
PLRM	1.30	139 eP	16	12.25	0.2
		eS	16	29.75	
PMR	1.30	139 iPd	16	12.90	0.9
CRP	1.45	205 eP	16	14.72	0.5
MCK	1.46	37 eP	16	13.80	-0.4
PMS	1.49	154 eP	16	14.57	0.0
BGL	1.50	209 eP	16	15.03	0.2
SPU	1.51	202 eP	16	14.43	-0.5
		eS	16	35.15	
CKL	1.55	207 eP	16	15.34	-0.2
BWN	1.72	21 eP	16	17.31	-0.3
NKA	1.86	185 eP	16	21.79	2.3
SLKM	2.11	171 eP	16	22.82	-0.1
RDT	2.14	200 eP	16	23.08	-0.4
NEA	2.16	21 eP	16	22.42	-1.2
NCT	2.25	207 eP	16	23.05	-1.9
TOA	2.26	100 ePd	16	26.10	1.1
RDN	2.26	204 eP	16	24.63	-0.5
REF	2.27	203 eP	16	25.18	-0.2
TTA	2.38	281 ePc	16	26.20	-0.5
SDG	2.48	89 eP	16	28.69	0.7
CCB	2.49	32 iP	16	27.04	-1.1
GLI	2.49	132 eP	16	27.12	-1.0
		eS	16	56.10	
PAX	2.53	79 eP	16	28.02	-0.7
NNL	2.56	185 eP	16	30.55	1.4
RDS	2.56	27 eP	16	28.08	-1.1
VZW	2.57	125 eP	16	28.52	-0.7
KLU	2.59	113 eP	16	28.14	-1.4
VLZ	2.61	122 eP	16	28.09	-1.6
MDM	2.66	25 iP	16	29.71	-0.8
FBA	2.70	29 ePc	16	30.70	-0.4
KNIM	2.71	145 eP	16	28.85	-2.3
CNPM	3.07	183 eP	16	36.27	0.0
PDB	3.23	211 eP	16	37.70	-0.6
GLB	3.53	106 eP	16	40.92	-1.7
CDD	3.91	201 eP	16	47.90	0.1
SYI	4.06	191 eP	16	49.35	-0.5
BALM	4.34	107 eP	16	51.79	-2.3

42 obs. associated

? JAN 25, 1991 07h 59m 07.60± 1.32s
40.279 N ±14.9km 25.838 E ±17.8km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

EZN	0.59	140 iPg	59	19.40	-0.1
		eSg	59	26.90	
KDZ	1.41	347 iP	59	33.00	-0.2
		iS	59	49.00	
BNT	1.59	87 ePn	59	36.00	0.1
RZN	1.64	329 eP	59	37.00	0.2
		iS	59	49.00	

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

& JAN 25, 1991 08h 19m 25.81s
59.997 N 153.301 W
DEPTH = 129.6km
2.7mb (1 obs.)
SOUTHERN ALASKA (2)
<AEIC>.

PDB	0.50	245 iP	19	44.15	-0.9
		eS	19	58.41	
RS2	0.54	30 eP	19	44.83	-0.8
		eS	20	00.27	
RSO	0.54	30 eP	19	44.82	-0.8
		eS	19	59.56	
REF	0.58	31 iP	19	45.03	-0.8
RDN	0.58	27 eP	19	45.10	-0.7
NCT	0.60	18 eP	19	44.96	-0.8
AUE	0.64	183 eP	19	45.20	-0.7
		eS	19	59.69	
AUI	0.67	186 eP	19	45.41	-0.7
RDT	0.73	37 iP	19	45.89	-0.8
HOM	0.90	111 eP	19	47.31	-0.7
		eS	20	04.39	
XLV	0.97	124 eP	19	47.41	-1.3
MCNL	0.97	213 iP	19	47.72	-1.0
		eS	20	04.72	
NNL	1.01	87 eP	19	49.10	0.1
CDD	1.08	189 eP	19	48.80	-1.0
		eS	20	06.18	
CNPM	1.15	113 iP	19	49.44	-1.0
		eS	20	08.14	
BRLK	1.24	100 eP	19	50.51	-0.9
NKA	1.27	53 eP	19	52.49	0.8
CKL	1.29	21 iP	19	51.51	-0.6
SPU	1.34	27 iP	19	51.69	-0.8
		eS	20	11.74	
BGL	1.35	19 iP	19	52.24	-0.4
CRP	1.39	23 eP	19	52.63	-0.6
SYI	1.47	161 eP	19	52.73	-1.1
		eS	20	13.43	
SLKM	1.62	70 eP	19	54.20	-1.4
SEW	1.94	85 eP	19	57.70	-1.6
SUA	1.94	39 eP	19	58.60	-0.9
		eS	20	23.80	
PMS	2.23	54 eP	20	01.60	-1.5
PWA	2.36	44 eP	20	03.63	-1.0
GHO	2.78	48 eP	20	07.76	-2.5
KNIM	2.80	80 eP	20	08.26	-2.2
CUT	2.83	30 eP	20	09.30	-1.4
MTU	2.84	88 eP	20	09.61	-1.3
GLI	3.20	71 eP	20	13.56	-2.1
VLZ	3.62	69 eP	20	18.38	-2.9
KLU	3.92	64 eP	20	22.51	-2.9
RND	4.02	30 eP	20	24.74	-2.0
GLB	4.88	69 eP	20	35.69	-2.6
NEA	5.00	21 eP	20	37.47	-2.4
CCB	5.32	26 eP	20	41.26	-2.9
RDS	5.41	24 eP	20	42.69	-2.6
MDM	5.51	23 eP	20	44.09	-2.6
BALM	5.51	74 eP	20	45.11	-1.8
FBA	5.54	25 eP	20	44.55	-2.6
YKA	18.59	66 eP	23	32.10	-3.1
	0.8s	0.30nm			2.7mb

43 obs. associated

? JAN 25, 1991 08h 53m 05.29± 9.02s
17.109 N ±57.1km 60.725 W ±44.5km
DEPTH = 10.0km (geophysicist)
LEEWARD ISLANDS (92)
ML 3.0 (FDF).

DEG	0.85	202 eP	53	21.85	0.1
		S	53	30.80	
SEG	1.03	227 eP	53	24.56	-0.1
DOG	1.37	219 eP	53	30.60	0.1
PAG	1.41	221 eP	53	31.10	0.0
		S	53	48.00	
BBL	1.73	205 eP	53	35.50	-0.2

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

JAN 25, 1991 09h 03m 53.56± 0.56s
37.007 N ± 6.3km 28.909 E ± 6.5km
DEPTH = 13.2 ± 4.8 km
4.2mb (2 obs.)
TURKEY (366)
MD 4.0 (ISK), 3.9 (ATH).

ELL	0.84	108 iPg	04	08.40	-1.2
ARG	1.01	219 ePg	04	11.00	-1.4
KSL	1.04	148 ePb	04	13.00	0.1
KHL	1.40	20 iPn	04	19.00	0.2
BCK	1.41	71 ePn	04	20.00	1.0
SMG	1.79	294 ePb	04	24.00	-0.3
IZM	1.91	317 ePn	04	25.60	-0.4
KAP	2.02	224 ePg	04	30.00	2.4
ALT	2.25	25 ePn	04	31.40	0.3
DST	2.60	355 ePn	04	35.00	-1.1
NPS	3.19	238 ePn	04	45.50	1.2
GPA	3.46	18 ePn	04	48.50	0.4
CSS	4.13	118 eP	05	00.50	2.9X
BBTK	4.14	46 iPc	05	00.00	2.1
MLR	8.76	346 eP	06	03.00	0.1
GBA	49.04	105 Pd	12	40.80	-1.4
	0.7s	2.50nm			4.3mb
YKA	76.59	344 eP	15	43.20	-1.7
	0.8s	1.20nm			4.0mb

S.D. = 1.4 on 16 of 17 obs.

• JAN 25, 1991 09h 06m 49.36± 1.02s
24.194 N ±10.6km 122.639 E ±10.6km
DEPTH = 33.0km (normal)
4.1mb (2 obs.)
TAIWAN REGION (243)

TWC	0.83	300 iPd	07	04.50	-0.1
		eS	07	12.80	
TWD	0.96	263 iPc	07	05.40	-1.1
		eS	07	14.80	
TWZ	1.32	313 ePc	07	12.20	0.6
ANP	1.42	314 eP	07	13.80	0.7
TWQ	1.65	273 ePd	07	16.30	-0.1
TWK	2.18	245 ePc	07	24.40	0.4
WRA	45.33	164 P	15	07.00	0.8
	0.5s	2.00nm			4.3mb
YKA	82.44	23 eP	19	08.30	-1.1
	0.8s	0.80nm			3.8mb

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

JAN 25, 1991 09h 25m 26.98± 0.60s
36.280 N ± 6.7km 27.150 E ± 5.6km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)
MD 4.0 (ATH).

KAP	0.73	178 ePn	25	41.00	-0.3
ARG	0.79	94 ePn	25	42.50	0.1
		eSn	25	54.00	
SMG	1.45	350 ePn	25	53.50	0.3
APE	1.52	302 ePn	25	53.80	-0.5
NPS	1.61	231 ePb	25	56.00	0.5
KSL	1.98	94 ePn	26	01.00	0.2
ELL	2.27	77 iPn	26	04.90	-0.3
KHL	2.78	42 ePn	26	10.00	-2.5X

S.D. = 0.4 on 7 of 8 obs.

• JAN 25, 1991 09h 38m 02.55± 1.45s
39.209 N ±15.3km 119.766 W ± 9.6km
DEPTH = 5.0km (geophysicist)
NEVADA (37)
ML 2.6 (NEIS). Felt (III) at
Genoo. Also felt at Carson City.

CMB	1.27	203 eP	38	25.50	-1.1
ORV	1.39	285 eP	38	28.20	-0.4
BONR	1.70	137 eP	38	33.00	-0.3
LTCM	2.07	299 eP	38	41.00	2.6X
TNP	2.29	119 eP	38	42.00	0.2
ARN	2.32	217 eP	38	43.50	1.4

S.D. = 1.3 on 5 of 6 obs.

• JAN 25, 1991 09h 57m 23.39± 0.57s
16.746 S ±11.8km 69.824 W ± 8.0km
DEPTH = 187.2 ± 6.5 km
4.5mb (3 obs.)
PERU-BOLIVIA BORDER REGION (118)

ARE	1.62	280 iPc	57	58.30	0.5
		iS	58	24.10	
LPB	1.67	83 iPd	57	58.00	-0.4
	1.0s	260.00nm			
ZOBO	1.70	74 iPc	57	58.20	-0.6
		i	58	28.00	
CNCB	1.77	92 iPd	58	00.30	0.8
		i	58	26.00	
CCH	3.58	101 P	58	21.20	0.9
		i	59	01.80	
ANT	6.95	184 iPc	59	03.50	-0.1
NNA	8.28	304 iPd	59	20.30	-1.1
	0.6s	23.33nm			4.7mb
		eS	00	43.50	
SIV	8.43	86 Pc	59	20.00	-3.4X
PPD	18.23	110 eP	01	24.40	-0.8
		e	01	27.20	
ALQ	62.07	326 eP	07	26.00	-0.6
	0.8s	3.73nm			4.3mb
KIC	68.30	76 P	08	05.40	-1.2
SES	76.04	334 eP	08	52.00	0.5
YKA	86.44	341 eP	09	45.70	0.3
	0.6s	4.30nm			4.5mb
MBC	97.42	349 eP	10	38.00	2.0
WRA	136.49	214 PKP	16	28.00	2.6X
	0.6s	0.70nm			

S.D. = 1.1 on 13 of 15 obs.

JAN 25, 1991 13h 39m 05.22± 0.94s
38.275 N ± 6.1km 142.935 E ± 6.6km
DEPTH = 44.8 ± 6.8 km
4.9mb (36 obs.) 4.4Msz (3 obs.)
NEAR EAST COAST OF HONSHU, JAPAN(228)

OFUJ	1.28	309 P	39	27.10	0.2

```
                    S      39 50.30
YAMJ     2.29 268 iP+      39 42.40    1.2
                    S      40 16.90
KAKJ     3.02 228 P        39 50.00   -1.7
AOMJ     3.02 320 eP       39 52.50    0.7
NIIJ     3.28 253 P        39 56.50    1.0
CHJJ     3.85 236 P        40 03.30   -0.2
MAT      4.14 247 iPc      40 08.70    1.0
        0.9s   159.66nm
                   eS      41 22.00
MRRJ     4.38 342 eP       40 08.80   -2.1
                   eS      40 57.80
MTMJ     4.42 249 P        40 12.90    1.3
IIDJ     4.90 237 P        40 19.00    0.7
KUSJ     5.00  15 eP       40 13.10   -6.5X
                   S       41 05.80
MDJ     11.84 307 eP       41 54.50    0.3
      Z  16s      1.20um
      N  12s      1.60um
                   eS      44 02.00
CN2     14.30 298 eP       42 26.00   -0.6
        1.0s     20.00nm            4.7mb
      Z  15s      1.70um            4.4Msz
      N  13s      0.90um
      E  13s      0.30um
                   pP      42 30.00
SNY     15.24 290 eP       42 39.20    0.3
        1.0s    100.00nm            5.0mb
      Z  16s      1.60um            3.5Msz
      E  11s      1.00um
                   pP      42 43.30
DL2     16.67 279 eP       42 56.00   -1.1
        1.2s    240.00nm            5.2mb
      Z  16s      0.90um            4.3Msz
      E  12s      1.00um
SSE     19.24 255 Pc       43 28.40   -0.2
        1.4s    100.00nm            4.9mb
      Z  20s      0.55um            4.3MszX
      N  19s      1.00um
      E  14s      5.50um
NJ2     20.62 260 eP       43 41.00   -2.1
      Z  17s      0.40um            3.9MszX
TIA     20.63 272 eP       43 42.40   -0.9
BJI     20.80 283 eP       43 42.00   -3.0
        1.0s     53.00nm            4.8mb
      Z  12s      0.60um            4.2MszX
      E  12s      0.79um
TIY     24.00 278 Pd       44 15.40   -1.3
      N  15s      0.80um
HHC     24.26 286 Pc       44 18.20   -1.0
        1.0s    100.00nm            5.3mb
      Z  16s      2.00um            4.7MszX
      E  13s      1.40um
WHN     24.74 260 Pc       44 25.00    1.2
        1.0s    100.00nm            5.3mb
      E  11s      0.70um
BTO     25.45 286 eP       44 31.00    0.4
      N  15s      0.80um
      E  15s      1.30um
XAN     27.69 272 Pc       44 51.00   -0.1
        1.0s     20.00nm            4.7mb
      N  12s      0.60um
LZH     31.07 278 Pc       45 21.50    0.1
        1.5s     68.00nm            5.2mb
      Z  15s      1.01um            4.6MszX
      E  12s      1.08um
                   pP      45 25.50   14kmX
GYA     32.63 260 iPc      45 34.60   -0.4
CD2     32.89 269 P        45 37.00   -0.2
        0.7s     30.00nm            5.3mb
GTA     33.37 286 eP       45 42.00    0.6
        3.2s    210.00nm            5.5mb X
      Z  17s      1.30um            4.7MszX
      E  15s      1.20um
                   pP      45 47.40   19kmX
                   sP      45 51.40
KMI     36.35 261 iPc      46 07.00   -0.1
WMO     41.37 296 P        46 51.00    2.5
        0.9s     35.00nm            5.1mb
      Z  16s      0.30um            4.3MszX
                   pP      47 03.50   46kmX
CHG     42.77 256 eP       47 01.00    0.9
CHTO    42.77 256 eP       47 01.00    0.9
        0.9s      8.53nm            4.5mb
LSA     43.31 275 P        47 05.10    0.2
NNT     46.08 248 eP       47 28.00    1.4
FBA     47.41  33 eP       47 38.00    1.4
```

```
        0.9s      6.25nm            4.6mb
GUN     48.24 275 P        47 44.40    0.4
KKN     48.76 276 P        47 48.20    0.3
PKI     48.77 275 P        47 47.80   -0.2
        0.8s     23.00nm            5.3mb
DMN     48.99 275 P        47 49.60   -0.1
        0.6s     11.00nm            5.1mb
GKN     49.17 276 P        47 51.00    0.1
IPM     50.74 239 ePc      48 03.50    0.6
        0.9s     30.40nm            5.3mb
NDI     54.63 281 eP       48 31.00   -0.7
MBC     54.99  17 eP       48 32.50   -1.3
HYB     59.44 269 iPc      49 05.50   -0.5
        1.0s     30.00nm            5.4mb
QUE     61.73 287 eP       49 12.10   -9.5X
YKA     62.13  31 eP       49 20.20   -3.4X
        0.8s      1.10nm            4.0mb
ASPA    62.19 189 eP       49 22.30   -2.1
        0.8s      5.40nm            4.7mb
GBA     62.51 266 P        49 26.60   -0.1
POO     62.52 273 eP       49 25.00   -1.8
KOD     64.50 263 eP       49 38.70   -1.5
NEW     68.40  45 eP       50 05.00    0.7
        0.9s      2.19nm            4.2mb
SES     70.43  41 eP       50 15.00   -1.7
FFC     72.01  34 eP       50 24.00   -2.0
        0.8s      6.00nm            4.6mb
LRM     72.42  45 eP       50 30.40    1.5
HFS     73.45 336 eP       50 33.70   -0.6
        0.5s      4.30nm            4.7mb
NB2     73.50 338 P        50 34.00   -0.7
        0.9s     13.60nm            4.9mb
TNP     74.18  54 eP       50 39.50    0.3
FRB     75.29  14 eP       50 42.00   -2.8
KRA     78.74 327 ePd      51 04.60    0.4
        0.9s     32.00nm            5.3mb
KSP     79.68 329 iPc      51 09.80    0.5
BRG     80.59 330 e(P)     51 15.00    0.8
        1.2s     12.00nm            4.7mb
                   e       51 23.00
CLL     80.61 331 iP       51 14.90    0.6
        1.0s     13.00nm            4.8mb
PRU     81.05 329 P        51 17.30    0.7
KHC     82.11 329 P        51 22.50    0.3
GRF     82.59 331 ePc      51 25.80    1.1
        1.1s     21.00nm            5.1mb
      Z  18s      0.20um            4.5Msz
                   e       51 34.20
                   e       51 48.20
ALQ     82.87  51 eP       51 27.00    0.3
CDF     85.13 332 eP       51 38.20    0.5
        1.0s     12.00nm            5.0mb
BSF     85.79 332 eP       51 41.00    0.0
HAU     85.81 332 eP       51 41.20    0.2
LOR     87.32 333 eP       51 48.80    0.4
        1.1s     14.65nm            5.1mb
      Z  20s      0.13um            4.3Msz
FLN     87.46 337 eP       51 49.10    0.1
      Z  22s      0.15um            4.4Msz
LDF     87.50 336 eP       51 49.30    0.1
LBF     87.53 333 eP       51 49.50    0.1
        0.8s      5.35nm            4.8mb
SSF     87.63 334 eP       51 50.30    0.5
        0.9s      6.55nm            4.9mb
LPL     87.75 331 eP       51 51.30    0.5
        0.9s      6.55nm            4.9mb
LPG     87.76 331 eP       51 51.40    0.5
        0.9s      9.00nm            5.0mb
SMF     87.86 333 eP       51 51.60    0.6
GRR     87.91 337 eP       51 51.50    0.3
        0.6s      4.50nm            4.9mb
AVF     87.91 334 eP       51 51.70    0.5
        0.8s      6.05nm            4.9mb
LPF     88.28 337 eP       51 53.50    0.5
        0.8s      6.70nm            5.0mb
TCF     88.74 334 eP       51 55.80    0.5
LSF     89.01 334 eP       51 57.00    0.5
MFF     89.26 336 eP       51 58.30    0.6
ZOBO   145.02  60 PKP      58 41.00    0.7
LPB    145.22  60 PKP      58 35.00   -5.4X
CNCB   145.49  60 PKP      58 37.00   -4.1X
SIV    149.36  50 PKP      58 51.00    4.4X
SOB1   150.86   8 ePKP     58 56.70    7.8X
      S.D. = 1.1  on  81 of  88 obs.
```

```
% JAN  25, 1991  14h 00m 37.94± 1.35s
   47.525 N ±11.7km     9.097 E ± 9.6km
   DEPTH =  10.0km  (geophysicist)
 GERMANY                                (543)
SAX      0.32 148 eP       00 44.50   -0.2
SLE      0.47 301 eP       00 47.50   -0.1
ZLA      0.48 265 eP       00 47.50   -0.2
LLS      0.66 186 eP       00 50.60   -0.6
VDL      1.07 166 eP       00 58.00   -0.2
OSS      1.10 139 eP       00 59.10    0.3
MMK      1.67 208 eP       01 08.60    1.1
      S.D. = 0.7   on   7 of   7 obs.
-----------------------------------------
* JAN  25, 1991  15h 19m 20.92± 1.35s
   38.470 N ± 8.8km    36.633 E ±18.9km
   DEPTH =  10.0km  (geophysicist)
   3.4mb (  1 obs.)
 TURKEY                                 (366)
BBTK     3.31 296 ePn      20 14.00    0.1
                   i       20 20.00
                   iS      21 01.00
KAS      3.64 324 eP       20 29.00   10.5X
CSS      4.39 218 eP       20 29.00   -0.2
BHL      4.63 190 P        20 32.00   -0.6
ADI      5.50 192 eP       20 45.00    0.1
GBZT     6.01 295 ePg      21 52.00   60.0X
                   iSg     21 53.10
MML      6.10 190 eP       20 54.00    0.6
YKA     76.75 347 eP       31 13.60   -0.1
        0.6s      0.20nm            3.4mb
      S.D. = 0.5   on   6 of   8 obs.
-----------------------------------------
% JAN  25, 1991  16h 08m 56.42± 1.23s
   43.093 N ±12.4km     0.485 W ± 7.1km
   DEPTH =  10.0km  (geophysicist)
 PYRENEES                               (378)
      MD 3.1 (STR).
ESCF     0.07 257 Pg       08 58.54   -0.3
JAU      0.10 123 Pg       08 59.28    0.0
ATE      0.16 268 Pg       09 00.21    0.1
                   Sg      09 02.74
LHE      0.21 209 Pg       09 00.99    0.0
                   Sg      09 04.02
ISSF     0.24 254 Pg       09 01.79    0.2
                   Sg      09 05.58
MADF     0.25 282 Pg       09 02.12    0.4
                   Sg      09 06.13
BOH      0.39 272 Pg       09 03.83   -0.5
      S.D. = 0.4   on   7 of   7 obs.
-----------------------------------------
& JAN  25, 1991  16h 45m 08.79s
   60.627 N          151.173 W
   DEPTH =  52.8km
 KENAI PENINSULA, ALASKA                ( 14)
      <AEIC>.
NKA      0.12 345 iP       45 18.78    3.3
SLKM     0.49 104 iP       45 19.75   -0.4
                   eS      45 28.85
NNL      0.59 186 eP       45 21.77    0.4
RDT      0.61 266 iP       45 20.98   -0.7
                   eS      45 31.47
SPU      0.70 323 iP       45 22.35   -0.5
                   eS      45 33.52
REF      0.77 260 iP       45 23.12   -0.7
RDN      0.79 262 iP       45 23.17   -1.0
                   iS      45 34.63
RSO      0.80 259 iP       45 23.53   -0.7
                   iS      45 35.40
RS2      0.80 259 iP       45 23.56   -0.7
CKL      0.81 316 iP       45 23.74   -0.5
RED      0.82 256 eP       45 23.62   -0.8
                   eS      45 35.58
SUA      0.87  14 iP       45 24.59   -0.5
                   eS      45 37.34
NCT      0.87 266 iP       45 24.34   -0.8
BGL      0.87 318 iP       45 24.74   -0.4
                   eS      45 37.99
BRLK     0.88 170 eP       45 24.18   -1.0
                   eS      45 36.78
HOM      1.00 194 eP       45 26.61   -0.1
                   eS      45 39.88
PMS      1.00  51 iP       45 26.23   -0.6
SEW      1.00 121 eP       45 25.37   -1.4
                   eS      45 39.83
CNPM     1.11 182 eP       45 27.41   -0.8
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25d 16h

		eS	45	41.79		
PWA	1.20	31 eP	45	29.26	-0.3	
PLRM	1.39	45 eP	45	30.98	-1.1	
PMR	1.39	45 iPc	45	31.50	-0.6	
GHO	1.58	42 eP	45	33.73	-1.2	
AUE	1.69	222 eP	45	35.66	-0.6	
KNIM	1.72	98 iP	45	34.21	-2.7	
PDB	1.73	242 eP	45	35.12	-1.8	
CUT	1.84	13 eP	45	38.41	0.0	
MTU	1.87	109 iP	45	36.51	-2.4	
		eS	45	58.85		
GLI	2.02	81 iP	45	38.02	-3.0	
		eS	46	02.08		
CDD	2.11	217 eP	45	41.56	-0.8	
SYI	2.12	198 eP	45	41.17	-1.2	
SVW	2.23	284 iPc	45	41.90	-2.1	
VZW	2.30	77 eP	45	42.42	-2.6	
VLZ	2.42	76 eP	45	44.21	-2.4	
KLU	2.70	69 eP	45	48.29	-2.4	
TOA	2.83	56 iPd	45	51.70	-0.9	
TTA	3.26	317 iPd	45	57.00	-1.7	
PAX	3.59	47 eP	46	01.82	-1.5	
GLB	3.67	74 eP	46	01.17	-3.3	
BALM	4.34	81 eP	46	09.94	-4.0	
FBA	4.56	18 eP	46	16.00	-0.9	

41 obs. associated

& JAN 25, 1991 17h 24m 42.70s
36.333 N 118.633 W
DEPTH = 6.0km (geophysicist)
CENTRAL CALIFORNIA (39)
<PAS-P>. ML 2.6 (PAS).

BONR	1.64	9 eP	25	13.00	0.5	
CMB	2.20	321 eP	25	20.00	-0.4	
ARN	2.54	294 eP	25	25.00	-0.1	

3 obs. associated

JAN 25, 1991 17h 38m 36.51± 0.12s
2.152 S ± 2.8km 139.020 E ± 3.3km
DEPTH = 22.0km (geophysicist)
5.9mb (55 obs.) 5.9Msz (35 obs.)
NEAR N. COAST OF WEST IRIAN (197)
Ms 6.2 (BRK). Mo=2.3•10••18 Nm (PPT). Two events about 2.5 seconds apart. Depth from broadband displacement seismograms, based on first event.
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=323 Dip=72 Slip= 90
NP2: 143 18 90
Principal Axes:
T Plg=63 Azm=233
P 27 53
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
RADIATED ENERGY
No. of sta: 9 Focal mech. F
Energy 2.2±0.6•10••13 Nm
MOMENT TENSOR SOLUTION
Dep 2 No. of sta: 14
Moment Tensor; Scale 10••18 Nm
Mrr= 2.14 Mtt=-1.72
Mff=-0.42 Mrt=-1.48
Mrf= 2.09 Mtf= 1.62
Principal axes:
T Val= 3.37 Plg=63 Azm=255
N 0.44 14 135
P -3.81 23 39
Best Double Couple:Mo=3.6•10••18
NP1:Strike=103 Dip=26 Slip= 55
NP2: 321 69 105
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.8.: 16S, 37C
Centroid Location:
Origin Time 17:38:43.0 0.4
Lat 1.72S 0.04 Lon 139.11E 0.03
Dep 15.0 FIX Half-duration 4.0
Moment Tensor: Scale 10••18 Nm
Mrr= 1.28 0.03 Mtt=-0.68 0.03
Mff=-0.60 0.03 Mrt=-1.00 0.09
Mrf= 0.89 0.08 Mtf= 0.65 0.03

Principal Axes:
T Val= 1.85 Plg=67 Azm=221
N 0.01 1 312
P -1.86 23 43
Best Double Couple:Mo=1.9•10••18
NP1:Strike=135 Dip=22 Slip= 92
NP2: 312 68 89

MNDI	6.10	131 eP	40	11.00	3.1	
PMG	10.83	132 eP	41	13.00	-0.5	
AAI	10.92	262 eP	41	16.00	1.4	
		eS	42	55.50		
MTN	13.19	216 eP	41	44.20	-1.0	
DAV	16.26	304 eP	42	24.00	-1.2	
GUA	16.65	20 eP	42	29.50	-0.7	
	1.0s	752.00nm			5.8mb	
KNA	16.87	216 eP	42	32.40	-0.6	
	0.5s	337.00nm			5.7mb	
		eS	45	37.00		
CGP	17.75	307 iPc	42	44.00	0.0	
OIS	18.30	178 iPd	42	50.40	-0.5	
	0.6s	93.00nm			5.1mb	
		iS	46	22.00		
CTA	19.18	159 iPc+	43	00.30	-1.2	
	1.0s	320.00nm			5.5mb	
		iS	46	36.00		
CTAO	19.18	159 ePc	42	59.87	-1.7	
MAP	19.44	310 iPc	43	04.00	-0.6	
MKS	19.74	261 ePc	43	11.20	3.2X	
VSG	21.75	110 eP	43	28.00	-0.7	
SVO	21.82	109 eP	43	24.00	-5.3X	
		eS	47	32.00		
TSM	21.87	287 ePc	43	33.80	4.0X	
ASPA	21.95	193 iPc	43	30.80	0.1	
	1.1s	967.00nm			6.1mb	
Z	20s	112.40um			6.3Msz	
		e	45	10.70		
		eS	47	32.20		
HNR	22.03	110 eP	43	31.00	-0.4	
		eS	47	30.00		
BKB2	22.13	272 ePd	43	35.50	3.1X	
	0.9s	1041.10nm			6.3mb	
PPR	23.43	301 ePc	43	47.00	1.8	
PGP	23.73	311 iPc	43	49.00	0.9	
KKM	24.18	290 ePc	43	54.20	1.5	
	1.6s	980.30nm			6.1mb	
		e	45	33.20		
OCP	24.37	314 eP	44	00.00	5.7X	
OLP	24.80	169 iPc	43	59.90	1.5	
		i	45	34.40		
BAG	25.92	316 eP	44	06.60	-2.7X	
RMO	25.94	160 iPc	44	09.20	0.0	
		e	48	12.00		
CVP	26.01	320 eP	44	09.00	-0.9	
MBL	26.58	223 iPc	44	15.80	0.7	
		eS	48	16.00		
WARB	26.69	205 iPc	44	17.20	1.1	
	0.4s	65.00nm			5.6mb	
		eS	48	18.00		
BRS	28.34	154 iPc-	44	31.10	0.0	
		i	45	21.30	257kmX	
		i	46	13.30		
		eS	49	24.00		
CMS	29.88	168 iPc	44	44.80	0.0	
		i	46	31.80		
FORR	30.36	199 eP	44	49.00	0.0	
		eS	48	50.00		
COO	30.79	158 iPd	44	53.00	0.1	
	0.9s	101.00nm			5.7mb	
		i	45	08.00	61kmX	
MEKA	31.28	217 eP	44	57.00	-0.3	
ANP	32.04	329 eP	45	04.00	0.0	
BKM	32.57	120 iP	45	09.20	0.5	
ADE	32.65	180 iPc+	45	09.70	0.5	
	0.8s	432.84nm			6.4mb	
PVC	32.66	120 iPc	45	09.50	0.1	
DZM	33.21	129 iPc	45	12.60	-1.7	
COOL	33.21	209 iPd	45	14.60	0.5	
QZH	33.44	325 Pc	45	15.00	-1.1	
	3.0s	2200.00nm			6.6mb	
Z	18s	8.80um			5.5Msz	
N	12s	2.80um				
E	12s	2.20um				
		S	50	32.00		
RIV	33.50	162 eP+	45	16.00	-0.5	
		eS	50	40.00		
KAGJ	34.04	347 eP	45	20.80	-0.5	

HKC	34.34	316 eP	45	24.00	0.1	
CN8	34.37	165 iPc	45	25.10	1.0	
	0.9s	136.00nm			5.9mb	
		e	49	26.00		
MRWA	34.71	217 iPc	45	27.40	0.4	
BFD	35.00	175 iPc	45	30.70	1.2	
	0.9s	509.00nm			6.4mb	
		i	47	08.80	551kmX	
		i	49	30.50		
BAL	35.32	214 eP	45	32.50	0.3	
	0.3s	19.00nm			5.5mb	
		e	49	34.50		
KUMJ	35.36	348 eP	45	31.10	-1.4	
GZH	35.43	317 eP	45	34.80	1.5	
KLB	35.49	212 eP	45	34.00	0.3	
	1.0s	338.00nm			6.2mb	
		e	49	35.00		
QIZ	35.58	308 Pc	45	31.50	-3.1X	
	0.9s	40.00nm			5.3mb	
N	23s	13.00um				
E	22s	9.70um				
		PP	46	59.00		
		eS	51	07.00		
TOO	35.75	171 iPd	45	37.60	1.8	
	1.0s	275.00nm			6.1mb	
		i	47	16.20	552kmX	
		e	49	38.00		
KGM	35.93	276 ePd	45	39.40	1.7	
MUN	36.63	214 eP	45	44.00	0.7	
	1.0s	200.00nm			5.9mb	
NWAO	36.81	211 iPc	45	45.50	0.7	
	1.0s	260.00nm			6.0mb	
		e	49	46.00		
SHK	36.97	351 eP	45	42.50	-3.6X	
SSE	37.17	334 Pd	45	47.00	-0.8	
	6.0s	1200.00nm			5.9mb X	
Z	20s	12.40um			5.7Msz	
N	19s	10.60um				
E	14s	5.49um				
		S	51	32.00		
		sS	51	44.00		
		PcS	51	50.00		
KLM	37.72	278 eP	45	53.00	0.3	
		e	47	34.00	591kmX	
RKG	37.83	210 eP	45	58.00	4.7X	
	0.8s	281.00nm			6.1mb	
CHJJ	38.00	360 P	45	54.00	-0.7	
KAKJ	38.17	2 P	45	54.70	-1.4	
MAT	38.50	359 eP	45	59.00	0.0	
	1.3s	100.00nm			5.4mb	
Z	20s	14.54um			5.8Msz	
		eS	51	52.00		
IPM	38.55	280 ePc	46	00.10	0.4	
	1.7s	643.30nm			6.1mb	
		e	47	40.20	578kmX	
		e	50	01.10		
MTMJ	38.55	358 P	45	58.30	-1.2	
NJ2	39.03	332 Pc	46	03.60	0.2	
	5.5s	1600.00nm			6.0mb X	
Z	20s	5.10um			5.3Msz	
N	15s	7.40um				
E	11s	3.80um				
		PP	47	36.00		
		S	52	00.00		
NIIJ	39.19	360 P	46	03.70	-1.0	
SNG	39.43	284 eP	46	07.50	0.5	
	1.4s	534.88nm			6.1mb	
		e	47	45.00	548kmX	
		e	50	08.50		
		e	52	09.50		
WHN	40.13	326 Pc	46	14.00	1.5	
	6.0s	2300.00nm			6.1mb X	
Z	20s	4.40um			5.3Msz	
E	12s	3.50um				
		PP	47	53.00		
		S	52	18.00		
YAMJ	40.13	1 P	46	14.50	2.0	
OFUJ	41.10	3 P	46	21.80	1.4	
LOE	41.58	299 iPc	46	24.80	0.1	
NNT	41.67	292 iPc	46	26.00	0.6	
MBU	41.70	113 ePc	46	27.00	1.3	
		eS	48	06.30		
VUN	41.77	115 iPd	46	27.30	1.1	
		eS	48	06.00		
SVA	41.80	115 ePc	46	27.20	0.8	
		eS	48	06.30		
GYA	42.25	314 iPc	46	31.20	1.0	

4.0s 2400.00nm 6.3mb X
Z 20s 5.10um 5.4Msz
N 17s 7.20um
E 17s 6.10um
PP 48 12.00
PcP 48 27.00
S 52 51.00
TIA 43.29 334 P 46 36.10 -2.3
Z 18s 10.40um 5.8Msz
N 17s 8.00um
E 12s 1.90um
DL2 43.89 340 Pc 46 42.00 -1.1
6.0s 1800.00nm 6.1mb X
Z 18s 4.30um 5.4Msz
N 16s 5.80um
E 15s 4.30um
pP 46 52.00 34kmX
S 53 12.00
BDT 43.92 298 iPc 46 31.00 -12.7X
1.0s 29.00nm
KMI 44.40 310 iPc 46 48.51 0.7
6.0s 1900.00nm 6.1mb X
Z 20s 9.30um 5.7Msz
N 10s 1.20um
E 12s 2.90um
ec 46 51.16 9kmX
e 48 28.07
e 48 38.00
eS 53 23.40
iSS 56 51.56
MRRJ 44.41 2 eP 46 50.80 3.5X
CHG 44.57 300 iPc 46 49.60 0.5
1.6s 298.33nm 5.9mb
eS 53 46.00
CHTO 44.57 300 iPc 46 48.88 -0.2
ec 46 51.53 9kmX
ePcP 48 28.28
SAP 45.05 2 eP 46 54.00 1.5
KUSJ 45.33 6 eP 46 54.40 -0.3
XAN 45.80 324 iPc 46 58.40 -0.3
8.0s 2100.00nm 6.1mb X
N 16s 4.90um
E 14s 2.50um
PP 48 48.00
S 53 41.00
SNY 45.96 344 iPc 46 59.20 -0.5
6.0s 2500.00nm 6.3mb X
Z 18s 12.70um 5.9Msz
N 16s 5.00um
E 15s 7.40um
S 53 34.00
SS 57 00.00
ASAJ 46.18 4 eP 47 01.00 -0.4
TIY 46.69 331 Pc 47 04.90 -0.7
Z 18s 12.90um 5.9Msz
N 18s 10.00um
pP 47 15.50 36kmX
S 53 52.00
BJI 46.91 336 iPc 47 06.70 -0.5
4.0s 1410.00nm 6.4mb X
Z 20s 17.30um 6.0Msz
N 18s 9.10um
ec 47 09.02
epPd 47 13.99 24kmX
esPd 47 16.14
e 48 46.10
eS 53 57.43
isS 54 13.99
eSS 57 13.66
CD2 46.98 317 iPc 47 08.40 0.4
1.4s 300.00nm 6.1mb
Z 18s 11.80um 5.9Msz
N 14s 5.00um
S 53 58.50
MDJ 47.32 351 eP 47 09.00 -1.4
Z 20s 11.00um 5.8Msz
N 17s 1.00um
E 17s 6.20um
pP 47 18.00 30kmX
S 54 00.00
ScS 57 00.00
SS 57 24.00
CN2 47.34 347 Pc 47 09.60 -1.0
6.0s 1900.00nm 6.3mb X
Z 17s 32.00um 6.4MszX
N 17s 10.00um
E 17s 2.80um

pP 47 19.00 31kmX
ScS 57 00.00
HHC 49.58 333 Pc 47 28.00 -0.2
1.2s 100.00nm 5.7mb
Z 20s 12.20um 5.9Msz
N 17s 5.10um
E 15s 4.10um
pP 47 38.00 34kmX
PP 49 23.00
S 54 34.00
AFI 49.99 106 ePc 47 30.72 -0.9
epPd 47 37.18 22kmX
BTO 50.11 331 iPc 47 32.00 -0.2
6.0s 1100.00nm 6.0mb X
N 18s 9.00um
E 17s 8.60um
pP 47 41.50 32kmX
ePP 49 27.00
iS 54 43.00
sS 55 01.50
TCW 50.20 145 P 47 31.70 -1.1
LZH 50.23 323 iPc 47 33.66 0.4
6.0s 1920.00nm 6.3mb X
Z 20s 6.37um 5.6Msz
N 17s 5.72um
ec 47 36.31 9kmX
PcP 48 48.00
PP 49 24.00
eS 54 45.48
esS 55 03.13
MRW 50.45 145 eP 47 32.90 -1.8
MNG 50.51 144 P 47 34.00 -1.2
WEL 50.53 145 P 47 33.00 -2.2
CAW 50.58 145 eP 47 34.20 -1.5
KHZ 50.60 147 eP 47 34.10 -1.6
0.5s 43.00nm 5.7mb
WDW 50.64 145 eP 47 34.00 -2.1
PUZ 50.67 140 eP 47 35.20 -1.3
MTW 50 87 145 P 47 36.10 -1.7
PGZ 50.97 144 P 47 37.40 -1.2
0.6s 77.00nm 5.8mb
e 49 15.30 507kmX
BLW 50.98 145 P 47 37.00 -1.7
HIA 53.86 344 ePc 47 59.22 -0.9
ec 48 01.37
epPd 48 06.33 23kmX
eS 55 34.89
esS 55 51.44
eScS 57 49.38
esScS 58 05.94
e 59 17.95
GTA 54.81 323 iPc 48 07.40 0.0
1.8s 190.00nm 5.8mb
Z 18s 4.20um 5.6Msz
N 16s 3.40um
pP 48 19.10 41kmX
sP 48 25.00
PcP 49 10.00
S 55 46.00
ScS 57 53.00
SS 59 30.00
LSA 55.61 309 iPc 48 13.80 0.0
Z 16s 6.90um 5.8MszX
E 18s 1.80um
pP 48 23.00 30kmX
S 55 59.80
GUN 59.13 304 Pc 48 38.60 0.0
PKI 59.40 304 Pc 48 40.20 -0.2
KKN 59.58 304 Pc 48 41.20 -0.3
DMN 59.66 304 Pc 48 42.00 -0.2
GKN 60.19 304 Pc 48 45.40 -0.2
SMY 62.11 23 P 49 00.00 2.0
Z 20s 9.60um 6.0Msz
KOD 62.49 283 iPc 49 01.40 -0.1
1.1s 11.00nm 4.9mb
HYB 62.67 291 iPc 49 01.60 -0.7
1.6s 616.70nm 6.5mb
e 49 09.50 26kmX
e 50 40.50
eS 57 30.00
GBA 63.02 286 P 49 04.00 -0.6
WMQ 64.77 321 ePc 49 15.71 -0.1
1.7s 100.00nm 5.7mb
Z 17s 3.50um 5.6MszX
N 15s 3.30um
ec 49 18.36 9kmX
esPd 49 25.81

eS 57 56.72
esS 58 13.55
eSKS 59 14.25
HON 65.80 66 P 49 24.00 1.4
KIP 65.82 65 ePd 49 31.54 8.8X
eS 58 14.05
e 58 26.46
NDI 66.61 302 iPc 49 27.00 -0.7
1.4s 127.91nm 5.9mb
eS 58 16.00
POO 67.27 291 iPc 49 30.00 -2.2
1.6s 386.67nm 6.3mb
iS 58 26.00
BOM 68.30 291 iP 49 37.00 -1.5
eS 58 31.70
KSH 70.90 313 eP 49 53.00 -1.4
N 12s 3.60um
AFR 71.43 108 iP 49 57.30 -0.4
1.1s 90.00nm 5.8mb
PPT 71.63 108 iP 49 59.60 0.7
1.1s 120.00nm 5.9mb
PAE 71.63 108 iP 49 58.30 -0.6
1.1s 110.00nm 5.8mb
PPN 71.76 108 iP 50 00.30 0.6
1.1s 115.00nm 5.9mb
TVO 71.95 108 iP 50 01.80 0.9
1.1s 85.00nm 5.7mb
TBI 72.19 114 iP 50 02.60 0.4
1.3s 250.00nm 6.1mb
PMO 73.11 105 iP 50 08.70 1.1
1.1s 190.00nm 6.0mb
VAH 73.37 105 iP 50 10.00 0.8
1.1s 85.00nm 5.7mb
TPT 73.37 105 iP 50 11.30 2.1
1.1s 160.00nm 6.0mb
RUV 73.61 105 iP 50 11.50 0.9
1.1s 130.00nm 5.9mb
QUE 75.66 302 iPc+ 50 23.30 0.8
1.6s 550.00nm 6.3mb
eS 00 05.20
SBA 77.07 174 iP 50 31.10 1.9
SVW 80.23 27 ePd 50 48.50 1.7
1.6s 201.40nm 5.9mb
TTA 80.78 25 ePd 50 51.00 1.3
1.7s 135.40nm 5.7mb
MAW 82.75 202 eP 51 01.20 1.4
1.1s 250.00nm 6.2mb
Z 18s 14.00um 6.4Msz
MAIO 82.83 307 eP 51 02.00 1.0
eS 01 28.00
PMR 83.33 27 ePd 51 01.70 -1.2
1.7s 110.20nm 5.8mb
BRW 83.98 17 ePd 51 07.70 1.7
KLU 84.79 28 P 51 09.80 -0.5
TOA 84.82 27 ePd 51 11.90 1.4
COL 84.86 24 ePc 51 10.72 0.2
epPd 51 17.51 21kmX
eSKS 01 32.45
FBA 84.86 24 ePd 51 10.50 0.0
1.6s 40.60nm 5.4mb
CRZF 86.49 224 eP 51 24.00 5.0X
eS 02 24.00
SPA 87.86 180 iPc 51 25.90 0.4
1.2s 165.49nm 6.2mb
Z 20s 10.59um 6.3Msz
i 53 24.60 537kmX
SHI 88.00 300 eP 51 28.00 1.1
SIT 89.42 33 ePd 51 36.30 3.5X
1.8s 176.70nm 6.0mb
TAB 93.44 308 eP+ 51 52.00 0.0
MBC 94.84 14 eP 51 56.50 -1.0
1.5s 52.00nm 5.7mb
BMW 96.90 44 P 52 16.80 9.3X
WDC 97.81 50 eP 52 12.80 1.1
BRK 98.20 52 eP 52 15.70 2.2
BKS 98.22 52 iPd 52 16.30 2.7X
0.7s 19.00nm 5.8mb
Z 20s 8.00um 6.2Msz
E 20s 7.00um
i 53 52.80 417kmX
iSKS 02 52.00
iSS 10 44.00
iSSS 14 08.00
i 23 08.00
GCC 98.47 53 eP 52 18.30 3.6X
MIN 98.54 50 eP 52 18.50 3.3X
ORV 98.68 50 eP 52 18.30 2.7X

25d 17h

MHC	98.73	53	eP	52	18.50	2.4	MEO	117.51	52	e(PKP)	57	22.20	-0.7		1.5s	251.50nm													
ARN	98.82	53	P	52	16.50	0.2	SFI	117.52	320	PKP	57	25.00	2.5X	TIC	143.88	278	PKPc	58	10.18	-2.8X									
PRS	99.02	54	eP	52	18.20	1.0	FIR	117.97	320	ePKP	57	24.00	0.6		1.3s	157.00nm													
PNT	99.04	41	eP	52	19.00	2.0	BOB	118.66	321	PKPd	57	28.40	3.6X	LIC	143.93	278	PKPc	58	10.32	-2.7X									
YKA	99.43	27	eP	52	18.20	-0.3	BSF	118.69	325	ePKP	57	23.50	-1.3		1.6s	531.50nm													
	1.4s	9.80nm			5.2mb			1.2s	29.75nm					ANCC	144.13	87	ePKPc	58	10.40	-3.1X									
CMB	99.67	52	eP	52	20.70	0.4	HAU	118.85	326	ePKP	57	24.00	-1.0	SALC	144.31	88	iPKPc	58	11.84	-2.1									
FRI	100.30	53	ePdiff	52	23.00	-0.1	TUL	119.29	50	ePKPd	57	26.30	0.1	HOOC	144.37	87	iPKPc	58	11.95	-2.2									
BONR	101.32	52	Pdiff	52	28.20	0.2		1.3s	39.10nm					CLMC	144.43	86	iPKPc	58	11.65	-2.5									
MWC	101.89	56	ePdiff	52	35.00	4.5X	RLO	119.78	49	ePKP	57	26.50	-0.6	GGC	144.61	319	ePKP	58	13.80	-0.1									
SBB	102.04	55	ePdiff	52	33.00	2.0	LPG	119.95	323	ePKP	57	26.60	-0.9				e	59	52.70											
CLC	102.11	54	ePdiff	52	31.00	-0.2		0.7s	8.80nm					ARE	144.64	123	iPKPc	58	14.00	-0.5									
TNP	102.15	52	ePdiff	52	31.00	-0.6	LPL	119.95	323	ePKP	57	26.60	-0.9	PURC	144.65	89	ePKPc	58	13.84	-1.1									
	1.0s	0.01nm			2.3mb	X		0.6s	5.85nm					SILC	144.67	88	iPKPc	58	13.68	-1.2									
RVR	102.48	56	ePdiff	52	34.00	1.1	BNI	120.23	323	PKP	57	30.00	2.1	BUGC	144.73	86	ePKPc	58	12.97	-1.6									
GSC	102.80	54	ePdiff	52	36.00	1.6	BCAO	120.55	274	iPKPc	57	29.00	-0.2	CTFE	144.77	320	ePKP	58	14.70	0.6									
PLM	102.97	56	ePdiff	52	38.00	2.7X		1.0s	40.00nm								e	59	54.40											
BBTK	103.84	310	ePdiff	52	44.00	5.1X				ic	58	54.50		DIAC	144.81	87	iPKPc	58	13.10	-1.7									
SES	104.29	38	ePdiff	52	40.00	-0.6				id	01	30.00		HOBC	144.84	86	iPKPc	58	12.84	-1.9									
GLA	104.70	57	ePdiff	52	47.00	4.2X	LOR	120.66	326	ePKP	57	27.60	-0.9	TBT	145.66	322	iPKPc	58	17.30	1.7									
ITU	106.43	312	ePKP	57	20.00	18.5X		1.2s	14.90nm								i	59	57.00											
VRI	106.95	317	ePKP	57	05.00	2.6X	LBF	120.75	326	ePKP	57	27.80	-0.9	CHIE	146.36	321	iPKPc	58	20.00	3.3X									
MLR	107.58	317	ePKP	57	10.00	6.2X		1.1s	14.65nm								i	59	59.50											
SLR	107.64	242	ePKP	57	04.50	0.0	SSF	120.97	326	ePKP	57	28.50	-0.5	BOG	146.89	85	ePKP	58	19.00	0.6									
Z	20s	3.19um			5.9Msz			1.1s	22.00nm					CNCB	147.36	126	PKP	58	20.70	1.4									
		e	58	56.00			SMF	121.02	325	ePKP	57	28.30	-0.9				i	00	02.00											
SEK	107.68	239	ePKP	57	15.00	10.5X		1.4s	34.85nm								i	02	20.00											
	0.6s	13.33nm					AVF	121.21	326	ePKP	57	28.60	-0.9	LPB	147.41	126	PKPc	58	20.00	0.8									
		S	57	41.00			BGF	121.63	326	ePKP	57	29.80	-0.5		1.0s	480.00nm													
SEK	107.68	239	ePKP	56	58.00	-6.5X		1.3s	39.70nm					Z	24s	3.10um				6.0Mszx									
FFC	108.15	32	ePKP	56	45.00	-19.3X	CCM	121.82	46	ePdiff	53	38.85	-20.0X				LR	40	20.00											
	1.7s	39.00nm								eSKS	04	20.36		ZOBO	147.53	125	ePKPc	58	20.20	0.6									
BMR	108.57	320	ePKPc	57	22.00	16.6X				eSKKS	05	58.30		Z	22s	1.71um				5.8Msz									
KRA	109.97	323	ePdiff	53	06.30	0.5				ePS	08	59.70					PKS	02	23.00											
		e	57	39.90			LDF	121.98	329	ePKP	57	30.20	-0.7				LR	50	00.00											
SPC	110.11	322	ePKP	57	08.60	0.1		1.2s	23.80nm					BMG	147.65	80	ePKP	58	19.00	-0.3									
GOL	110.91	48	ePKPd	57	11.10	0.7	MAF	121.99	326	ePKP	57	30.50	-0.5	CCH	148.50	129	PKP	58	23.00	2.2									
Z	18s	3.77um			6.0Msz		FLN	122.06	330	ePKP	57	30.30	-0.7	SDV	149.75	76	ePKP	58	23.80	1.1									
ALO	111.22	53	ePKP	57	11.50	0.4		1.3s	36.10nm					MEP	149.95	56	ePKP	58	23.00	0.4									
Z	19s	7.12um			6.3Msz		TCF	122.15	326	ePKP	57	30.70	-0.6	ITB7	150.02	156	e(PKP)	58	30.00	7.4X									
KSP	111.80	325	ePdiff	53	14.50	0.6X		1.1s	25.65nm					PORP	150.28	56	ePKP	58	22.00	-1.1									
KSP	111.80	325	ePKP	57	12.50	1.1	GRR	122.49	329	ePKP	57	31.60	-0.2	ITB	150.30	155	e(PKP)	58	30.00	7.0X									
SRO	111.81	321	ePKP	57	09.50	-2.0		1.2s	29.75nm					ITB1	150.35	155	e(PKP)	58	29.50	6.5X									
		e	57	48.70			LSF	122.55	326	ePKP	57	31.30	-0.8	TOV	150.38	74	ePKP	58	22.70	-0.8									
ZST	112.41	322	e(PKP)	57	09.80	-2.8X	LPF	122.81	329	ePKP	57	31.90	-0.6	SJG	150.66	56	e(PKP)	58	26.00	2.3									
BRG	113.12	326	ePdiff	53	30.00	10.2X		1.1s	34.20nm					CPD	150.89	56	ePKP	58	24.00	0.0									
	2.0s	44.00nm					CAF	123.03	325	ePKP	57	33.00	-0.1	SIV	153.18	133	PKP	58	27.60	0.2									
Z	18s	3.00um			5.9Msz			1.0s	15.00nm					PPD	153.93	158	ePKP	58	30.40	2.1									
N	18s	2.50um					RJF	123.12	325	ePKP	57	32.80	-0.4				e	58	36.80											
E	18s	1.50um					MFF	123.25	327	ePKP	57	32.60	-0.8	VAO	154.33	167	ePKP	58	27.10	-1.8									
		e	57	14.00			SCH	123.45	18	ePKP	57	34.00	0.5				e	58	38.70											
		e	58	01.00			LPO	123.68	325	ePKP	57	34.20	-0.1				e	00	13.10											
		e	58	06.00				1.3s	50.55nm					JFO	156.16	175	ePKP	58	34.30	2.9X									
		e	07	36.00			LFF	123.78	325	ePKP	57	34.50	0.0	BAO	161.02	159	ePKPc	58	49.50	12.4X									
PRU	113.18	325	ePKP	57	17.00	3.0X		1.1s	24.40nm					SOB1	168.71	180	ePKP	58	46.40	2.7X									
Z	19s	6.80um			6.3Msz		EPF	125.15	324	ePKP	57	36.80	-0.5				e	00	26.10											
N	19s	2.50um					RSCP	126.98	46	PKP	57	45.00	3.9X		S.D. = 1.1 on 242 of 298 obs.														
E	18s	2.40um					Z	20s	5.65um			6.2Msz		----------																
		e	58	08.50			GAC	127.14	30	ePKP	57	40.50	-0.4	? JAN 25, 1991 17h 39m 14.14± 3.46s																
		e	58	26.00			ETOR	127.90	323	ePKP	57	43.20	0.5	4.033 N ±17.6km 76.021 W ±23.0km																
		S	07	37.00			RSNY	128.43	30	PKP	57	47.00	3.5X	DEPTH = 55.8 ± 37.7 km																
CLL	113.44	326	e(PKP)	57	09.00	-5.5X	Z	20s	5.65um			6.3Msz		COLOMBIA (103)																
Z	18s	7.00um			6.3Msz		GUD	129.26	324	ePKP	57	46.30	0.9	MD 2.8 (UVC).																
		e	58	08.00			EVIA	129.49	321	e(PKP)	57	46.60	0.8																	
PTJ	114.04	320	ePKP	57	12.20	-3.8X	TOL	129.68	323	ePKP	57	47.00	1.0	BUGC	0.27	240	eP	39	23.89	0.0									
KHC	114.13	324	ePKP	57	14.90	-1.1				iPP	59	59.00					eS	39	31.60											
Z	20s	3.30um			5.9Msz					ePKS	01	14.00		HOBC	0.34	340	iPc	39	24.35	0.0									
N	20s	1.50um								ePPS	11	40.00					eS	39	32.40											
E	20s	2.00um								eSS	16	10.00		CLMC	0.56	254	ePc	39	26.98	0.2									
		e	58	15.70			STS	130.18	329	ePKP	57	48.00	1.1	DIAC	0.76	193	eP	39	29.20	0.0									
MOX	114.53	326	ePKP	57	16.00	-0.7	EPLA	130.76	325	ePKP	57	49.00	0.9	HOOC	0.83	227	ePc	39	29.72	-0.5									
Z	18s	6.70um			6.3Msz		PTO	131.44	327	ePKP	57	48.20	-1.1				eS	39	41.80											
N	18s	9.80um					EMOR	131.70	322	e(PKP)	57	51.50	1.6	SALC	1.25	213	eP	39	35.97	0.2									
E	18s	10.90um					EJIF	132.68	320	ePKP	57	53.00	1.2				eS	39	52.80											
VBY	114.65	320	i(PKP)	57	20.00	2.9X	IFR	134.20	317	iPKPc	57	56.00	1.0		S.D. = 0.4 on 6 of 6 obs.														
SQTA	116.42	323	i(PKP)	57	20.10	-0.4				i	57	58.00		----------																
	1.0s	11.60nm					KOGH	139.19	277	ePKP	58	05.00	0.2	JAN 25, 1991 17h 40m 16.45± 0.22s														
		i	57	23.00			LPA	139.85	158	ePKP	58	07.00	1.7	2.275 S ± 7.6km 139.206 E ± 7.5km														
		e	58	25.00			Z	20s	3.55um			6.1Msz		DEPTH = 33.0km (normal)														
		i	58	37.70						ePP	01	00.00		6.4mb (1 obs.)														
		i	58	59.60			NNA	141.70	112	ePKP	58	08.00	-1.2	NEAR N. COAST OF WEST IRIAN (197)														
		i	00	09.10				0.9s	11.76nm																				
		i	00	33.90			Z	18s	0.86um			5.6Msz		GUA	16.70	20	eP	44	10.70	1.0									
SOI	116.88	312	PKPd	57	24.00	2.5X	CUMC	143.10	91	ePKP	58	08.78	-3.5X		1.2s	687.50nm				5.7mb X									
ARV	116.99	319	PKPd	57	24.00	2.4X	CFTV	143.39	318	iPKPd	58	10.20	-1.6	BKB2	22.32	272	iPc	45	17.70	4.8X									
SDI	117.14	317	PKP	57	23.00	1.0				i	59	49.80			1.0s	1441.70nm				6.4mb									
ABH	117.17	327	ePKP	57	21.17	-0.6	KIC	143.63	278	PKPc	58	09.42	-3.1X	PPR	23.65	301	ePc	45	26.00	0.1									

PGP	23.95	311	ePc	45 17.00	-11.8X
MRWA	34.72	217	eP	47 07.00	1.4
MAT	38.63	359	eP	47 38.00	-0.5
	1.4s	69.77nm			5.3mb X
NNT	41.88	292	eP	48 05.40	-0.2
BJI	47.10	336	Pc	48 46.00	-1.2
	1.5s	351.00nm			6.1mb X
			eS	56 52.00	
			eScS	57 57.50	
LZH	50.44	323	eP	49 13.00	-0.3
	1.6s	274.00nm			6.0mb X
KOD	62.69	283	eP	50 41.00	-0.3
GBA	63.23	286	P	50 44.00	-0.4
QUE	75.88	302	iPc	52 02.40	0.3
	1.4s	437.21nm			6.3mb X
SES	104.27	38	ePdiff	54 20.00	1.2
FFC	108.15	32	ePKP	58 43.00	0.4
	1.0s	12.00nm			
BSF	118.90	325	ePKP	59 03.00	-0.5
	0.9s	19.65nm			
HAU	119.05	326	ePKP	59 03.30	-0.4
LPG	120.16	323	ePKP	59 06.10	-0.1
	1.4s	87.15nm			
LPL	120.16	323	ePKP	59 06.20	0.1
	0.9s	14.75nm			
PGF	120.21	319	ePKP	59 06.00	-0.1
	1.2s	53.55nm			
SBF	120.58	321	ePKP	59 06.40	-0.3
	1.3s	72.20nm			
LOR	120.86	326	ePKP	59 06.90	-0.2
	1.2s	22.30nm			
LBF	120.96	326	ePKP	59 07.20	-0.1
	0.9s	14.75nm			
SSF	121.18	326	ePKP	59 07.90	0.2
	1.0s	19.00nm			
FRF	121.22	321	ePKP	59 07.80	-0.1
	1.1s	34.20nm			
SMF	121.23	326	ePKP	59 07.70	-0.1
	1.0s	16.00nm			
AVF	121.42	326	ePKP	59 07.80	-0.3
	0.9s	8.20nm			
LMR	121.42	321	ePKP	59 08.40	0.2
	1.3s	39.70nm			
LRG	121.46	321	ePKP	59 08.50	0.2
	1.0s	36.00nm			
BGF	121.84	326	ePKP	59 09.20	0.2
	1.3s	54.15nm			
LDF	122.18	329	ePKP	59 09.60	0.1
	1.3s	28.90nm			
MAF	122.19	326	ePKP	59 09.90	0.2
	1.1s	14.65nm			
FLN	122.26	330	ePKP	59 09.70	0.0
	1.2s	35.70nm			
TCF	122.35	326	ePKP	59 10.20	0.2
	1.0s	31.00nm			
GRR	122.69	329	ePKP	59 10.60	0.1
	1.3s	36.10nm			
LSF	122.76	326	ePKP	59 10.70	0.0
LPF	123.01	329	ePKP	59 11.40	0.3
	1.0s	38.00nm			
CAF	123.24	325	ePKP	59 12.40	0.7
	1.0s	15.00nm			
RJF	123.33	325	ePKP	59 12.20	0.3
MFF	123.46	327	ePKP	59 12.20	0.2
	1.0s	14.00nm			
SCH	123.51	18	ePKP	59 14.00	2.1
LFF	123.99	325	ePKP	59 13.80	0.6
	1.1s	31.75nm			
EPF	125.36	324	ePKP	59 16.10	0.1
	0.9s	10.65nm			
EBR	126.55	321	ePKP	59 34.00	15.8X
GAC	127.15	30	ePKP	59 20.00	0.8
	1.0s	23.00nm			
ANCC	143.95	87	ePKPc	59 49.51	-1.9
SALC	144.13	88	ePKPc	59 51.10	-0.8
HOOC	144.19	87	ePKPc	59 51.24	-0.9
CLMC	144.25	87	ePKP	59 50.78	-1.3
PURC	144.46	89	ePKPc	59 52.95	0.1
SILC	144.49	89	ePKPc	59 52.90	0.1
BUGC	144.55	87	ePKPc	59 52.26	-0.3
DIAC	144.63	88	ePKPc	59 52.45	-0.3
HOBC	144.66	86	ePKPc	59 52.04	-0.7
LPB	147.19	126	iPKP	00 04.00	6.9X
	1.1s	258.23nm			
	Z 24s	3.10um			6.0MszX
			LR	50 17.00	
	S.D. = 0.7	on	50 of	54 obs.	

JAN 25, 1991 17h 42m 38.39± 0.18s
2.180 S ± 6.0km 139.140 E ± 6.0km
DEPTH = 33.0km (normal)
5.4mb (12 obs.) 5.5Msz (2 obs.)
NEAR N. COAST OF WEST IRIAN (197)

AAI	11.03	262	eP	45 16.60	-0.5
GUA	16.63	20	eP	46 34.10	3.3X
	1.0s	320.00nm			5.4mb
MKS	19.86	261	e(P)d	47 12.50	2.8X
BKB2	22.25	272	iPc	47 38.60	4.4X
	0.8s	759.20nm			6.2mb
PPR	23.54	301	ePc	47 47.00	0.2
PGP	23.84	311	ePc	47 48.00	-1.6
KKM	24.31	290	ePd	47 55.20	0.9
	1.0s	221.60nm			5.7mb
BRS	28.27	154	iPd	48 32.00	1.1
			i	48 35.00	
			i	48 40.50	
DZM	33.09	129	iPd	49 13.80	0.1
MRWA	34.76	217	eP	49 28.50	0.6
SSE	37.24	334	P	49 47.00	-1.8
	1.0s	74.00nm			5.5mb
	Z 20s	5.50um			5.3Msz
			PP	50 35.00	
			SS	58 04.00	
MAT	38.53	359	eP	49 59.00	-0.6
	1.3s	63.46nm			5.3mb
VUN	41.65	115	eP	50 29.60	4.0X
SVA	41.68	115	eP	50 29.60	3.8X
NNT	41.79	292	eP	50 26.20	-0.6
TCW	50.11	146	eP	51 32.20	-0.2
LZH	50.32	323	eP	51 35.00	0.6
	1.0s	48.00nm			5.5mb
MRW	50.36	145	eP	51 33.20	-1.1
MNG	50.41	144	eP	51 35.00	0.2
KHZ	50.51	147	eP	51 35.10	-0.3
	0.6s	30.00nm			5.5mb
WDW	50.55	145	eP	51 35.00	-0.8
NOZ	50.75	141	eP	51 38.60	1.3
MTW	50.77	145	eP	51 37.10	-0.4
PGZ	50.88	144	P	51 38.10	-0.2
	0.5s	48.00nm			5.7mb
BLW	50.89	145	P	51 37.80	-0.6
KOD	62.61	283	eP	53 02.00	-0.7
GBA	63.14	286	P	53 04.80	-1.0
QUE	75.77	302	eP	54 23.70	0.3
	0.8s	43.66nm			5.5mb
TTA	80.75	25	ePc	54 51.20	1.3
	0.8s	20.69nm			5.2mb
PMR	83.30	27	ePc	55 01.80	-1.2
	1.3s	35.38nm			5.3mb
KLU	84.75	28	eP	55 11.40	1.0
FBA	84.84	24	eP	55 11.40	0.7
	0.7s	8.72nm			5.1mb
SES	104.23	38	ePdiff	56 24.00	-16.6X
LRM	104.34	43	ePdiff	56 47.50	6.0X
SKO	111.81	315	ePdiff	57 11.10	-3.4X
	Z 19s	1.83um			5.7Msz
	N 19s	1.44um			
	E 20s	1.82um			
			i	57 49.00	
			ePP	01 30.00	
			iS	07 22.00	
			i	08 14.00	
			LR	50 44.00	
BSF	118.78	325	ePKP	01 25.10	-0.1
	0.7s	7.70nm			
HAU	118.94	326	ePKP	01 25.30	-0.1
	0.7s	6.60nm			
LPG	120.04	323	ePKP	01 28.20	0.3
	0.6s	6.30nm			
LPL	120.05	323	ePKP	01 28.10	0.3
	0.6s	7.20nm			
PGF	120.10	319	ePKP	01 27.80	-0.1
	0.8s	13.45nm			
LOR	120.75	326	ePKP	01 29.00	0.2
	0.6s	3.15nm			
LBF	120.84	326	ePKP	01 29.20	0.1
	0.7s	6.05nm			
SSF	121.06	326	ePKP	01 29.80	0.4
	0.7s	5.50nm			
FRF	121.11	321	ePKP	01 29.80	0.2
	0.7s	11.00nm			
SMF	121.11	326	ePKP	01 29.70	0.2
	0.6s	4.50nm			
AVF	121.30	326	ePKP	01 29.90	0.0
	0.6s	2.70nm			
LMR	121.31	321	ePKP	01 30.10	0.1
	0.7s	9.90nm			
LRG	121.34	321	ePKP	01 30.50	0.5
	0.6s	8.10nm			
BGF	121.72	326	ePKP	01 31.10	0.4
	0.6s	7.65nm			
MAF	122.08	326	ePKP	01 31.90	0.5
FLN	122.14	330	ePKP	01 31.60	0.2
	0.5s	5.10nm			
TCF	122.24	326	ePKP	01 32.20	0.5
	0.7s	9.90nm			
GRR	122.58	329	ePKP	01 32.50	0.3
LSF	122.64	326	ePKP	01 32.60	0.2
LPF	122.90	329	ePKP	01 33.30	0.5
	0.7s	12.15nm			
CAF	123.12	325	ePKP	01 34.30	0.9
	0.8s	7.40nm			
RJF	123.21	325	ePKP	01 34.30	0.7
	0.7s	4.40nm			
MFF	123.34	327	ePKP	01 34.10	0.3
	0.7s	5.50nm			
SCH	123.43	18	ePKP	01 35.00	1.3
LPO	123.77	325	ePKP	01 35.70	1.0
	0.6s	12.65nm			
LFF	123.87	325	ePKP	01 35.80	0.9
	0.8s	12.10nm			
EPF	125.24	324	ePKP	01 38.90	1.2
	0.8s	6.70nm			
GAC	127.10	30	ePKP	01 40.00	-1.1
	0.8s	7.00nm			
ANCC	144.01	87	ePKPc	02 10.78	-2.7X
SALC	144.19	88	ePKP	02 12.44	-1.5
HOOC	144.25	87	ePKPc	02 12.46	-1.7
CLMC	144.31	86	ePKP	02 13.45	-0.7
PURC	144.53	89	ePKPc	02 14.39	-0.5
ARE	144.53	123	e(PKP)	02 15.00	0.5
SILC	144.55	88	ePKPc	02 14.26	-0.6
BUGC	144.61	86	ePKP	02 13.60	-1.0
DIAC	144.69	87	ePKPc	02 13.53	-1.2
LPB	147.30	126	PKP	02 24.00	4.7X
	1.0s	160.00nm			
CCH	148.39	129	PKP	02 27.60	6.8X
	S.D. = 0.8	on	63 of	74 obs.	

? JAN 25, 1991 18h 03m 12.57± 4.32s
40.666 N ±33.9km 23.467 E ±11.4km
DEPTH = 10.0km (geophysicist)
GREECE (364)

MMB	0.94	12	ePg	03 31.00	0.4
			Sg	03 46.00	
VAY	0.94	314	ePn	03 30.70	0.2
KKB	1.23	347	ePg	03 35.00	-0.5
RZN	1.39	42	eP	03 38.00	-0.1
			eSg	04 01.00	
VTS	1.93	354	eP	03 46.00	0.1
			eS	04 13.00	
	S.D. = 0.5	on	5 of	5 obs.	

JAN 25, 1991 18h 06m 44.36± 0.70s
39.604 N ± 6.1km 29.246 E ± 6.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.8 (ISK).

DST	0.48	270	iPg	06 53.20	-0.9
ALT	0.87	129	iPg	07 00.80	-0.3
			iSg	07 12.80	
KCT	0.94	314	iPg	07 02.00	-0.3
YLV	0.97	6	ePg	07 01.50	-1.3
			iSg	07 17.00	
GPA	1.07	50	ePn	07 04.20	-0.3
GBZT	1.19	7	ePn	07 07.90	1.3
			eSg	07 25.30	
BNT	1.27	307	ePn	07 09.00	1.1
KHL	1.30	170	iPn	07 09.00	0.5
			eSg	07 25.90	
	S.D. = 1.1	on	8 of	8 obs.	

JAN 25, 1991 18h 08m 37.50± 1.03s
35.785 N ± 9.1km 21.773 E ± 5.1km
DEPTH = 58.1 ± 9.8 km
3.6mb (2 obs.)
MEDITERRANEAN SEA (400)
MD 3.9 (ATH).

25d 18h

VLI	1.32	45	iPnd	09	01.50	1.5
ITM	1.40	5	ePn	09	02.60	1.5
VAM	2.01	100	ePn	09	09.00	-0.6
VLS	2.57	339	ePn	09	18.20	0.7
EVR	3.13	1	ePn	09	29.30	3.8X
NEO	3.70	18	ePn	09	34.70	1.2
IGT	3.91	343	ePc	09	35.92	-0.5
LIT	4.35	7	iPd	09	43.48	0.9
PAIG	4.40	19	iPd	09	43.16	-0.1
KZN	4.51	360	ePn	09	45.50	0.5
SOI	5.12	298	P	09	54.00	0.6
GRG	5.19	5	ePd	09	54.16	-0.3
OHR	5.37	352	ePn	09	58.50	1.5
KNT	5.44	9	ePd	09	58.10	0.2
LCI	5.45	328	P	09	57.80	-0.2
			eSn	10	53.80	
SRS	5.51	14	ePd	09	56.68	-2.3
VAY	5.56	6	ePn	09	58.70	-0.9
ATN	5.58	297	P	09	59.80	-0.1
MEU	5.67	285	P	10	01.50	0.2
			eSn	11	00.50	
TDS	5.79	314	P	10	02.40	-0.4
			eSn	11	02.00	
SKO	6.18	358	ePn	10	06.50	-1.8
BRT	6.22	326	P	10	08.60	-0.3
			eSn	11	14.50	
RZN	6.33	20	eP	10	10.00	-0.5
MGR	6	56	313 P	10	08.90	-4.6X
			eSn	11	20.30	
SGO	6.97	315	P	10	18.60	-0.7
HFS	24.92	350	eP	13	56.70	0.4
	0.4s		1.20nm		3.7mb	
GKN	53.14	80	P	17	51.60	-0.2
HYB	53.24	94	eP	18	08.00	15.5X
DMN	53.69	80	P	17	56.00	0.1
KKN	53.75	79	P	17	56.20	-0.1
PKI	53.95	80	P	17	58.90	1.0
GUN	54.18	79	P	17	58.40	-1.2
GBA	54.41	99	P	18	05.00	4.0X
YKA	75.98	341	eP	20	21.10	1.6
	0.5s		0.30nm		3.5mb	

S.D. = 1.0 on 30 of 34 obs.

JAN 25, 1991 18h 28m 20.11± 0.62s
42.892 N ± 6.0km 18.720 E ± 4.6km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.6 (TTG).

BRY	0.13	274	iPgd	28	24.26	0.9
			iSg	28	27.29	
NKY	0.22	111	iPgc	28	25.63	0.7
			iSg	28	30.18	
HCY	0.47	200	iPgc	28	29.48	-0.3
			iSg	28	37.86	
TTG	0.61	139	iPgc	28	31.38	-1.0
			iSg	28	42.81	
BDV	0.61	173	iPgd	28	32.36	-0.1
			iSg	28	42.58	
PLE	0.66	48	iPgd	28	32.58	-0.7
			iSg	28	42.59	
IVA	0.87	91	iPgd	28	36.74	-0.1
			iSg	28	49.86	
PVY	0.97	107	iPgd	28	38.43	-0.2
			iSg	28	53.48	
ULC	1.01	157	iPgc	28	39.11	-0.1
			iSg	28	55.28	
HVAR	1.69	281	iPn	28	49.30	-0.5
			iSg	29	12.60	
SKO	2.21	114	ePn	28	58.80	1.4
			i	29	01.70	
OHR	2.36	138	ePn	29	01.30	1.8X

S.D. = 0.8 on 11 of 12 obs.

JAN 25, 1991 18h 38m 26.33± 0.40s
2.100 S ± 5.3km 139.084 E ± 8.1km
DEPTH = 33.0km (normal)
5.2mb (7 obs.)
NEAR N. COAST OF WEST IRIAN (197)

PMG	10.82	132	eP	41	02.00	-0.1
RAB	13.23	99	iPd-	41	47.00	12.5X
			iS	44	20.00	
MTN	13.27	216	eP	41	34.00	-1.0
	0.3s		39.00nm		5.9mb X	
KNA	16.95	216	eP	42	22.80	0.1
WRA	18.33	194	P	43	00.00	20.1X
	0.6s		10.50nm			
OIS	18.35	178	eP	42	39.00	-1.1
CTA	19.20	159	iPc	42	50.30	-0.1
	1.0s		20.00nm		4.3mb	
ASPA	22.02	193	iPc	43	19.20	-0.6
	0.6s		82.30nm		5.3mb	
			eS	47	17.30	
RMO	25.97	160	iPd	44	01.00	3.2X
WARB	26.77	205	eP	44	06.00	0.8
FORR	30.43	199	iPd	44	38.10	0.1
	0.4s		32.00nm		5.5mb	
ADE	32.70	181	eP	45	00.00	2.0
DZM	33.19	129	iPd	45	01.90	-0.6
BFD	35.05	175	eP	45	19.00	0.8
MAT	38.45	359	(P)	46	05.00	18.1X
CHG	44.60	300	eP	46	38.00	0.3
CHTO	44.60	300	eP	46	38.00	0.3
	1.0s		3.00nm		4.1mb X	
XAN	45.80	324	eP	46	46.60	-0.3
CD2	46.99	317	eP	46	56.50	0.1
GTA	54.81	323	eP	47	55.00	-0.7
			pP	48	02.00	23kmX
GUN	59.15	304	P	48	27.20	0.2
	0.8s		13.00nm		5.1mb	
PKI	59.42	304	P	48	28.40	-0.5
KKN	59.60	304	P	48	29.80	-0.2
	0.8s		17.00nm		5.2mb	
DMN	59.69	304	P	48	30.60	0.0
	0.8s		13.00nm		5.1mb	
GKN	60.21	304	P	48	34.00	-0.1
	0.8s		23.00nm		5.4mb	
GBA	63.07	286	P	48	52.70	-0.5
WMO	64.77	321	P	49	04.00	0.0
OUE	75.69	302	eP	50	11.90	1.0
CNCB	147.34	126	PKP	58	11.00	3.6X
LPB	147.39	126	PKP	58	13.00	5.7X
ZOBO	147.51	125	PKP	58	13.50	5.8X
	1.0s		10.75nm			
SIV	153.17	133	PKP	58	24.20	8.6X

S.D. = 0.7 on 24 of 32 obs.

JAN 25, 1991 19h 21m 41.65± 0.39s
41.003 N ± 3.5km 22.372 E ± 3.4km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.1 (SKO).

GRG	0.05	155	ePd	21	43.66	-0.2
VAY	0.35	25	iPg	21	48.40	-0.5
			iSg	21	52.50	
KNT	0.43	68	iPc	21	50.38	0.0
			eS	21	56.74	
THE	0.58	129	ePc	21	53.46	0.0
SOH	0.77	103	ePd	21	57.18	0.5
			eS	22	06.78	
FNA	0.79	254	ePc	21	57.94	0.9
			eS	22	07.42	
LIT	0.91	174	ePc	21	57.78	-1.2
			eS	22	10.94	
SRS	0.93	83	ePc	21	58.94	-0.5
			eS	22	11.86	
KKB	1.01	32	iP	22	01.00	0.1
MMB	1.18	60	iPd	22	04.00	0.3
OHR	1.19	276	ePg	22	03.70	-0.3
			eSg	22	19.90	
SKO	1.19	324	iPg	22	03.50	-0.4
			iSg	22	19.00	
PAIG	1.47	137	ePd	22	08.14	0.0
			eS	22	27.82	
RZN	1.89	68	eP	22	15.00	0.5
			eS	22	41.00	
AGG	1.98	181	ePd	22	16.18	0.6

S.D. = 0.6 on 15 of 15 obs.

? JAN 25, 1991 19h 24m 24.78±13.31s
4.665 N ±99.7km 76.778 W ±65.1km
DEPTH = 33.0km (normal)
COLOMBIA (103)
MD 2.6 (UVC).

HOBC	0.71	116	iPd	24	38.47	0.0
CLMC	0.81	165	eP	24	40.19	0.3
			eS	24	49.40	
ANCC	1.15	184	ePc	24	44.77	0.2
			eS	24	57.50	
HOOC	1.20	173	ePc	24	45.06	-0.5
			eS	24	57.90	

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

JAN 25, 1991 20h 49m 19.33± 0.39s
43.420 N ± 3.4km 19.666 E ± 3.2km
DEPTH = 10.3 ± 3.2 km
YUGOSLAVIA (383)
ML 3.3 (TTG). Felt at Novo Varos and Prijepolje.

PLE	0.22	246	iPgd	49	23.72	-0.4
			iSg	49	26.27	
IVA	0.57	163	iPgc	49	29.53	-1.5
			iSg	49	37.92	
NKY	0.78	219	iPgd	49	33.52	-1.0
			iSg	49	43.88	
PVY	0.85	165	iPgd	49	34.52	-1.3
			iSg	49	47.17	
BRY	0.97	238	iPgd	49	36.73	-1.1
			iSg	49	50.72	
TTG	1.03	197	iPgd	49	37.42	-1.4
			iSg	49	52.00	
BDV	1.29	209	iPgd	49	42.22	-1.0
			iSg	50	01.42	
HCY	1.30	222	iPgc	49	42.40	-0.9
			iSg	50	02.35	
ULC	1.49	192	iPgc	49	46.60	0.5
			iSg	50	07.92	
BEO	1.51	22	iPg	49	46.20	-0.2
			iSg	50	07.50	
SKO	1.95	137	iPnd	49	54.00	1.2
	0.9s		177.00nm			
			iPb	49	57.00	
			iSn	50	14.50	
			i	50	18.50	
			iSg	50	30.00	
			LO	50	46.00	
HVAR	2.36	265	iPnd	50	01.10	2.4
			iSg	50	33.00	
OHR	2.46	160	iPn	50	01.90	1.8
	1.3s		363.00nm			
			iSg	50	36.60	
			Lg	50	45.40	
BZS	2.60	32	iPc	50	05.00	2.9X
VTS	2.73	106	iPd	50	04.00	-0.1
FNA	2.93	154	iPc	50	07.38	0.6
KKB	2.96	120	eP	50	08.00	0.8
VAY	3.00	133	ePn	50	07.80	0.0
BAI	3.10	223	P	50	09.00	-0.1
BRT	3.13	217	P	50	13.00	3.4
			eSn	50	50.00	
GRG	3.19	140	ePd	50	10.06	-0.5
UZD	3.26	347	iP	50	11.30	-0.2
KNT	3.29	132	ePc	50	11.30	-0.6
PGB	3.41	103	eP	50	15.00	1.3
MMB	3.52	120	eP	50	15.00	-0.1
DRA	3.54	68	ePd	50	24.00	8.6X
ZAG	3.56	314	ePn	50	15.00	-0.6
PTJ	3.63	314	iPnc	50	16.30	-0.4
			eSn	50	56.10	
SRS	3.71	127	iPc	50	16.54	-1.4
SOH	3.78	132	ePc	50	18.66	-0.2
VBY	3.78	305	ePn	50	20.50	1.6
			iSn	51	07.40	
			iSg	51	24.90	
IGT	3.92	172	ePc	50	20.66	-0.1
LIT	3.93	147	iPd	50	21.14	0.1
TNR	3.98	54	ePc	50	31.00	9.3X
BUD	4.09	354	eP	50	22.00	-1.1
RZN	4.11	113	eP	50	25.00	1.3
DUI	4.23	247	P	50	28.50	3.2X
			eSn	51	17.60	
RIY	4.25	299	iPn	50	26.80	1.4
CMP	4.27	63	ePc	50	32.00	6.1X
CEY	4.40	304	ePn	50	28.40	0.7
			e	50	41.00	
			e(Sn)	51	27.50	
SRO	4.50	348	iPn	50	28.70	-0.2
			i(Sn)	51	21.90	
LJU	4.50	307	ePnc	50	29.50	0.5
			e(Sn)	51	18.00	
			e	51	28.50	
PSZ	4.50	2	e(P)	50	28.00	-1.1
PAIG	4.61	138	iPd	50	30.50	0.0
SDI	4.65	250	P	50	35.00	3.8X
			eSn	51	27.50	
TRI	4.80	301	ePn	50	34.10	0.8
			iSn	51	30.70	

		iSg	51	59.10		
AGG	4.83	155 ePd	50	34.58	0.8	
VOY	4.87	304 iPnc	50	34.30	-0.1	
		eSn	51	32.10		
MLR	4.95	63 eP	50	43.50	8.0X	
BMR	5.03	31 ePd	50	55.00	18.5X	
ZST	5.10	340 eP	50	34.60	-2.9X	
		e	51	15.20		
		i	51	37.40		
ASS	5.13	268 P	50	40.50	2.5	
		eSn	51	37.00		
MNS	5.23	261 Pd	50	42.50	3.0X	
VRI	5.60	62 ePd	50	49.00	4.3X	
KBA	5.77	312 iPc	50	46.80	-0.4	
	0.4s	13.70nm			5.0mb X	
		i	50	49.70		
SPC	5.78	4 eP	50	46.00	-1.3	
FVI	5.82	305 P	50	49.60	1.9	
CTI	6.28	297 P	50	55.50	1.1	
BHG	6.42	314 iPnc	50	56.80	0.6	
SCE	6.68	306 iPnc	51	00.50	0.4	
WATA	6.91	307 iPd	51	03.80	0.6	
	0.4s	25.40nm			5.7mb X	
OGA	7.01	302 ePn	51	04.60	-0.1	
SQTA	7.07	305 iPc	51	06.20	0.8	
	0.4s	14.40nm			5.5mb X	
		id	51	06.30		
		i	51	34.00		
		e	52	26.00		
		iS	53	04.90		
		i	53	13.70		
KHC	7.10	326 P	51	05.90	0.2	
		e	52	28.40		
		e	53	01.60		
KSP	7.77	344 eP	51	15.50	0.4	
PGF	7.87	267 Pg	51	19.80	3.2X	
GRF	8.55	320 e(Pn)	50	45.00	-41.0X	
		e(Pg)	51	25.00		
SBF	8.88	277 Pg	51	30.40	-0.3	
FEL	9.30	303 eP	51	34.23	-2.2	
FRF	9.47	275 Pg	51	36.60	-2.0	
LPG	9.47	287 Pg	51	37.80	-1.2	
		Sn	52	24.80		
LPL	9.48	287 Pg	51	38.00	-1.1	
CDF	9.97	304 Pg	51	44.10	-1.6	
BSF	10.04	301 Pg	51	45.50	-1.1	
HAU	10.38	301 Pg	51	48.80	-2.4X	
	S.D. = 1.2	on 61 of 75 obs.				

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* JAN 25, 1991 21h 24m 37.96± 0.57s
17.302 S ± 9.5km 173.970 W ±11.8km
DEPTH = 80.0km (geophysicist)
4.9mb (8 obs.)
TONGA ISLANDS (173)

AFI	3.98	32 P	25	29.00	-8.9X	
		eS	26	04.00		
VUN	7.25	263 eP	26	31.80	8.5X	
SVA	7.26	262 eP	26	32.30	8.8X	
DZM	19.04	252 iPc	28	58.40	1.7	
PUZ	21.79	197 eP	29	25.20	0.5	
WLZ	22.43	202 P	29	33.40	2.5	
PGZ	24.72	198 P	29	53.60	0.5	
	0.5s	24.00nm			4.9mb	
MNG	24.96	199 eP	29	54.70	-0.7	
	0.5s	19.00nm			4.8mb	
THZ	26.85	202 eP	30	12.70	-0.2	
KHZ	27.21	200 P	30	15.40	-0.6	
	0.4s	19.00nm			5.0mb	
LTZ	27.97	202 eP	30	21.30	-1.7	
BRS	32.27	246 iPc	31	01.80	0.6	
COO	33.74	241 eP	31	14.00	0.0	
CTA	37.72	259 iPc	31	48.10	0.4	
	0.7s	12.33nm			4.9mb	
TOO	40.86	232 eP	32	14.00	0.4	
WRA	48.90	258 P	33	17.00	-1.0	
	0.8s	11.70nm			4.9mb	
ASPA	49.03	253 iPd	33	18.90	-0.1	
	1.4s	78.40nm			5.5mb	
FORR	54.05	244 eP	33	56.00	-0.6	
WARB	55.47	250 eP	34	06.00	-1.0	
MBL	62.23	255 eP	34	53.00	-0.9	
MUN	64.16	242 eP	35	06.00	-0.5	
TNP	76.60	43 eP	36	22.00	0.2	
	0.9s	4.88nm			4.4mb	
FBA	84.36	11 ePd	37	02.60	0.6	
	0.7s	11.10nm			5.0mb	
SES	87.07	35 eP	37	15.00	-0.8	
YKA	92.05	24 eP	37	39.70	0.9	
	0.6s	0.30nm			3.9mb X	
FLN	148.18	8 ePKP	44	16.30	3.7X	
	0.6s	9.00nm				
LDF	148.39	8 ePKP	44	16.80	3.8X	
	0.7s	6.60nm				
GRR	148.49	9 ePKP	44	17.30	4.2X	
	0.6s	9.00nm				
LPF	148.81	9 ePKP	44	18.20	4.6X	
	0.8s	18.80nm				
CDF	148.96	358 ePKP	44	18.90	4.9X	
	0.8s	4.05nm				
HAU	149.38	360 ePKP	44	20.00	5.4X	
	0.8s	6.70nm				
BSF	149.55	359 ePKP	44	20.90	6.0X	
LOR	150.06	3 ePKP	44	21.70	6.1X	
	1.0s	9.00nm				
SSF	150.25	3 ePKP	44	22.30	6.4X	
	0.9s	11.45nm				
MFF	150.34	9 ePKP	44	21.90	5.9X	
	0.9s	8.20nm				
LBF	150.35	3 ePKP	44	22.20	6.1X	
AVF	150.51	4 ePKP	44	22.50	6.2X	
	0.7s	2.75nm				
BGF	150.71	4 ePKP	44	23.10	6.5X	
	0.7s	7.15nm				
VBY	150.84	347 e(PKP)	44	24.90	8.1X	
LSF	150.89	6 ePKP	44	23.20	6.3X	
	0.7s	6.60nm				
TCF	150.92	5 ePKP	44	23.60	6.6X	
MAF	151.02	5 ePKP	44	24.00	6.9X	
	0.9s	8.20nm				
LPL	151.86	359 ePKP	44	27.80	9.2X	
	0.9s	4.10nm				
LPG	151.88	359 ePKP	44	27.90	9.1X	
	S.D. = 1.0	on 22 of 44 obs.				

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* JAN 25, 1991 21h 44m 03.82± 0.86s
2.087 S ± 5.4km 139.028 E ±19.5km
DEPTH = 33.0km (normal)
5.1mb (5 obs.)
NEAR N. COAST OF WEST IRIAN (197)

MTN	13.24	216 eP	47	12.00	-0.2	
	0.3s	41.00nm			5.9mb X	
		eS	49	37.00		
QIS	18.37	178 eP	48	18.00	0.2	
		e	51	35.00		
ASPA	22.02	193 iPc	48	57.00	-0.3	
	0.5s	19.50nm			4.8mb	
	Z 17s	0.60um			4.1MszX	
		eS	52	59.20		
WAR8	26.75	205 eP	49	43.00	0.4	
FORR	30.42	199 iPd	50	15.30	-0.2	
	0.4s	36.00nm			5.5mb X	
XAN	45.75	324 eP	52	24.00	-0.1	
BJI	46.86	336 eP	52	32.00	-0.6	
CD2	46.94	317 eP	52	34.20	0.7	
GUN	59.10	304 P	54	04.40	0.3	
	0.8s	13.00nm			5.1mb	
PKI	59.37	304 P	54	05.80	-0.2	
KKN	59.55	304 P	54	07.00	-0.1	
	0.8s	17.00nm			5.2mb	
DMN	59.63	304 P	54	07.80	0.1	
	0.8s	13.00nm			5.1mb	
GKN	60.16	304 P	54	11.20	0.0	
	0.8s	20.00nm			5.3mb	
GBA	63.01	286 P	54	30.00	-0.3	
WMQ	64.72	321 P	54	41.50	0.3	
ZOBO	147.56	125 PKP	03	51.20	5.9X	
	Z 24s	0.10um			4.5MszX	
		LR	11	28.00		
	S.D. = 0.4	on 15 of 16 obs.				

? JAN 25, 1991 22h 01m 47.71± 1.61s
2.112 S ±20.4km 138.968 E ±40.9km
DEPTH = 33.0km (normal)
4.5mb (1 obs.) 4.2Msz (1 obs.)
WEST IRIAN (201)

QIS	18.34	178 eP	06	02.00	0.6	
		e	09	38.00		
CTA	19.23	159 eP	06	12.00	-0.2	
ASPA	21.98	192 eP	06	40.30	-0.5	
	0.8s	15.60nm			4.5mb	
	Z 18s	0.80um			4.2Msz	
		eS	10	44.40		
GUN	59.06	304 P	11	48.00	0.2	
KKN	59.51	304 P	11	50.20	-0.5	
DMN	59.60	304 P	11	52.00	0.6	
GKN	60.12	304 P	11	54.60	-0.2	
FRB	115.28	13 ePdiff	16	36.00	-2.6X	
ZOBO	147.60	125 ePKP	21	34.00	4.7X	
	S.D. = 0.6	on 7 of 9 obs.				

& JAN 25, 1991 22h 11m 28.94s
61.000 N 151.434 W
DEPTH = 64.8km
SOUTHERN ALASKA (2)
<AEIC>.

NKA	0.28	160 eP	11	40.98	1.5	
SPU	0.35	301 iP	11	39.78	-0.4	
		eS	11	48.67		
CRP	0.44	308 eP	11	40.50	-0.6	
CKL	0.48	295 iP	11	40.82	-0.6	
		eS	11	50.49		
BGL	0.53	300 iP	11	41.44	-0.5	
		eS	11	51.70		
SUA	0.57	35 eP	11	42.21	-0.2	
		eS	11	52.62		
RDT	0.64	229 iP	11	42.16	-0.9	
		eS	11	52.62		
SLKM	0.77	129 iP	11	43.94	-0.7	
		eS	11	56.53		
REF	0.81	231 eP	11	44.37	-0.8	
		eS	11	57.19		
RDN	0.81	234 iP	11	44.24	-1.0	
		eS	11	56.65		
RSO	0.84	231 eP	11	44.84	-0.8	
		eS	11	57.81		
RS2	0.84	231 eP	11	44.91	-0.8	
		eS	11	57.68		
NCT	0.86	240 eP	11	44.94	-0.8	
		eS	11	57.06		
RED	0.88	229 eP	11	45.29	-0.7	
		eS	11	58.65		
PMS	0.94	74 eP	11	46.47	-0.3	
		eS	12	00.31		
NNL	0.96	176 eP	11	47.35	0.4	
PWA	0.99	48 eP	11	47.72	0.4	
PLRM	1.26	61 eP	11	50.54	-0.3	
BRLK	1.27	167 eP	11	50.51	-0.6	
		eS	12	07.47		
SEW	1.33	132 eP	11	51.49	-0.3	
GHO	1.44	56 eP	11	52.85	-0.5	
		eS	12	11.41		
CNPM	1.48	176 eP	11	53.15	-0.8	
		eS	12	12.07		
CUT	1.52	21 eP	11	53.91	-0.4	
GLI	2.12	91 eP	12	00.05	-2.7	
MTU	2.13	117 eP	12	00.94	-1.9	
		eS	12	25.45		
SCM	2.14	65 eP	12	02.28	-0.9	
CDD	2.36	209 eP	12	05.26	-0.8	
SYI	2.45	192 eP	12	05.99	-1.3	
TRF	2.52	12 eP	12	08.39	-0.1	
RND	2.70	25 eP	12	11.15	0.2	
KLU	2.71	77 eP	12	09.03	-2.1	
	31 obs. associated					

% JAN 25, 1991 22h 24m 27.66± 0.73s
40.308 N ± 8.1km 27.345 E ± 5.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.0 (ISK).

EDC	0.40	84 iPg	24	36.00	0.2	
BNT	0.44	84 iPg	24	35.80	-0.9	
		eSg	24	37.80		
KCT	0.78	94 ePg	24	43.00	0.2	
EZN	0.92	239 iPn	24	45.10	-0.1	
DST	1.21	125 iPn	24	50.50	0.3	
ISK	1.51	59 iPn	24	55.40	0.7	
DMK	1.54	12 iPn	24	55.10	-0.1	
YLV	1.57	80 ePn	24	55.00	-0.7	
HRT	1.84	73 ePn	25	00.00	0.4	
	S.D. = 0.6	on 9 of 9 obs.				

? JAN 25, 1991 23h 15m 45.07± 1.07s
17.827 S ±25.5km 178.484 W ±18.1km
DEPTH = 603.1 ± 16.0 km
5.1mb (13 obs.)

25d 23h

FIJI ISLANDS REGION (181)

AFI	7.54	60	P	17	40.20	-0.5
DZM	14.78	251	iPc	18	52.40	1.4
BRS	28.13	245	iPc	20	52.30	0.0
COO	29.75	239	iPd	21	06.80	0.6
	0.4s	19.00nm			5.1mb	
CTA	33.39	260	iPd	21	37.00	0.2
	0.8s	46.27nm			5.2mb	
CNB	33.42	232	iPc	21	38.00	1.0
	0.7s	80.00nm			5.5mb	
PMG	34.38	279	iPc	21	46.50	1.4
	0.9s	84.03nm			5.4mb	
CMS	35.00	240	iPd	21	50.90	0.8
	0.8s	62.00nm			5.3mb	
TOO	37.17	231	iPc	22	09.00	1.2
WRA	44.57	259	P	23	05.00	-1.8
	0.6s	54.60nm			5.3mb	
ASPA	44.75	254	iPd	23	07.80	-0.3
	0.7s	202.10nm			5.8mb	
		eS		28	59.80	
MTN	48.73	268	eP	23	37.00	-1.4
FORR	49.94	244	iPd	23	46.10	-0.9
	0.4s	68.00nm			5.5mb	
WARB	51.24	250	iPd	23	56.10	-0.5
	0.4s	19.00nm			4.9mb	
MBL	57.93	256	iPd	24	42.00	-1.3
	0.4s	13.00nm			4.5mb	
KLB	58.80	243	iPd	24	47.80	-1.2
	0.6s	31.00nm			4.7mb	
NWAO	59.19	242	eP	24	50.50	-1.1
	0.6s	7.00nm			4.1mb	
MUN	60.10	243	eP	24	57.00	-0.6
CHG	88.90	290	eP	27	39.80	2.1X
CHTO	88.90	290	eP	27	39.00	1.3
	0.9s	5.33nm			4.5mb	
YKA	94.29	25	eP	28	00.80	-0.7
	0.5s	0.30nm			3.8mb X	
WIT	144.85	355	ePKP	34	17.50	2.1X
KSP	145.01	344	iPKPd	34	17.10	1.3
CLL	145.37	347	iPKPd	34	17.70	1.3
	1.0s	24.00nm				
BRG	145.57	346	iPKPc	34	18.60	1.9X
	1.1s	14.00nm				
WTS	145.65	354	ePKP	34	18.50	1.7X
	0.9s	10.00nm				
PRU	146.25	345	PKP	34	20.30	2.5X
ENN	146.95	355	ePKP	34	22.00	3.1X
	0.7s	5.00nm				
ZST	147.15	341	e(PKP)	34	22.90	3.6X
KHC	147.28	345	ePKP	34	23.50	3.9X
ABH	147.66	353	ePKP	34	23.92	3.7X
FLN	149.10	3	ePKP	34	26.90	4.5X
	0.5s	4.35nm				
CDF	149.13	353	ePKP	34	27.40	4.8X
	0.8s	12.10nm				
LDF	149.28	2	ePKP	34	27.50	4.9X
	0.5s	3.65nm				
GRR	149.46	3	ePKP	34	28.20	5.3X
	0.6s	7.20nm				
SOTA	149.62	347	iPKPc	34	28.30	4.9X
	0.7s	9.30nm				
		ic		34	29.00	
HAU	149.64	354	ePKP	34	28.50	5.2X
BSF	149.76	353	ePKP	34	28.70	5.1X
	0.7s	5.50nm				
LPF	149.80	3	ePKP	34	29.00	5.6X
	0.9s	19.65nm				
LOR	150.58	357	ePKP	34	30.70	6.0X
	0.7s	9.90nm				
SSF	150.80	357	ePKP	34	31.40	6.4X
	0.8s	8.75nm				
LBF	150.85	357	ePKP	34	31.30	6.2X
	0.9s	11.45nm				
AVF	151.08	357	ePKP	34	32.00	6.6X
MFF	151.27	2	ePKP	34	32.20	6.5X
	0.8s	8.05nm				
BGF	151.33	358	ePKP	34	32.30	6.5X
TCF	151.61	359	ePKP	34	33.00	6.8X
	0.8s	4.05nm				
LSF	151.66	360	ePKP	34	32.80	6.5X
	0.8s	6.70nm				
MAF	151.67	358	ePKP	34	33.40	7.1X

S.D. = 1.2 on 22 of 48 obs.

* JAN 25, 1991 23h 22m 51.86± 0.69s
13.599 N ±12.2km 43.910 E ±17.6km

DEPTH = 10.0km (geophysicist)

WESTERN ARABIAN PENINSULA (555)

OBO	1.71	201	eP+	23	23.41	1.5
MKL	2.01	202	iP+	23	27.20	0.9
TDD	2.03	209	eP+	23	26.26	-0.3
ARO	2.30	207	P	23	30.23	-0.3
DAF	2.39	214	ePd	23	30.11	-1.7
KMSA	6.76	5	ePd	24	34.20	0.6
			eS	26	08.90	
GKN	40.48	63	P	30	33.40	0.6
DMN	40.80	63	P	30	34.40	-1.2
KKN	40.99	63	P	30	35.80	-1.3
PKI	41.06	64	P	30	37.80	0.0
GUN	41.53	63	P	30	42.80	1.1

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

JAN 26, 1991 00h 19m 12.89± 0.66s
3.515 S ± 3.7km 102.630 E ± 4.4km
DEPTH = 112.7 ± 5.8 km
5.5mb (50 obs.)

SOUTHERN SUMATERA (274)

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 25C
Centroid Location:
Origin Time 00:19:16.1 0.5
Lat 3.82S 0.04 Lon 102.52E 0.06
Dep 121.6 1.9 Half-duration 1.9
Moment Tensor; Scale 10**17 Nm
Mrr= 0.55 0.06 Mtt=-1.13 0.09
Mff= 0.59 0.11 Mrt= 0.61 0.05
Mrf=-0.62 0.06 Mtf=-1.54 0.08
Principal Axes:

	Val=	Plg=	Azm=
T	1.99	30	58
N	0.07	59	250
P	-2.06	5	151

Best Double Couple:Mo=2.0*10**17
NP1:Strike=199 Dip=65 Slip= 19
NP2: 101 73 154

KGM	5.54	7	ePd	20	36.30	2.0
	1.3s	897.80nm			5.8mb	
			e	21	40.40	
KLM	6.65	351	ePd	20	51.00	1.4
	1.0s	3148.70nm			6.7mb X	
IPM	8.20	349	ePd	21	10.80	0.1
	0.9s	273.40nm			5.9mb	
SNG	10.81	349	ePd	21	44.60	-1.1
	1.2s	359.38nm			6.0mb	
NNT	16.26	350	eP	22	53.00	-3.0X
KKM	16.56	55	ePd	23	03.00	3.1X
	1.1s	355.80nm			5.5mb	
MKS	16.88	96	iPd	23	06.10	2.4
	1.0s	443.80nm			5.7mb	
TSM	17.24	64	ePd	23	09.50	1.4
	1.0s	739.10nm			5.9mb	
PCT	18.12	356	eP	23	18.80	0.0
NST	19.22	353	iPc	23	30.00	-0.9
PPR	20.78	50	eP	23	47.50	0.7
LOE	20.81	358	eP	23	46.00	-1.1
BDT	20.94	350	eP	23	46.60	-1.8
	0.8s	47.80nm			4.9mb	
CHG	22.48	351	ePd	24	02.80	-0.9
	1.0s	39.75nm			4.7mb	
			eS	27	48.00	
MNI	22.74	78	ePc	24	08.50	2.3
	0.8s	917.70nm			6.2mb	
MBL	24.24	138	eP	24	20.00	-0.7
	0.6s	76.00nm			5.3mb	
PGP	24.83	47	iPc	24	28.20	1.9
CGP	25.01	62	eP	24	29.00	1.0
DAV	25.21	65	eP	24	32.00	2.2
MAP	25.32	57	ePc	24	32.00	1.2
QCP	25.68	45	eP	24	34.00	-0.2
BAG	26.59	41	eP	24	42.00	-0.7
MEKA	27.56	148	iPd	24	51.50	0.2
	0.4s	27.00nm			5.2mb	
CVP	28.34	41	ePc	24	58.00	-0.3
KNA	28.44	117	eP	24	56.80	-2.5
KMI	28.47	0	Pd	25	00.50	0.9
	1.5s	60.00nm			5.0mb	
Z	12s	1.90um			4.9MszX	
			S	29	40.00	
KOD	28.54	299	eP	25	01.60	1.1
MRWA	28.54	155	eP	25	00.00	0.0
MTN	29.66	110	eP	25	07.90	-2.3
	0.3s	58.00nm			5.8mb	
BAL	30.05	155	iPc	25	13.60	0.2
	0.5s	20.00nm			5.1mb	
GYA	30.05	7	iPd	25	14.20	0.6
Z	16s	1.00um			4.5MszX	
N	14s	1.40um				
E	14s	1.10um				
		PcP		28	13.00	
		S		30	06.00	
GBA	30.24	305	Pc	25	12.30	-2.9X
	1.0s	151.10nm			5.7mb	
SHL	30.73	341	iP	25	17.50	-2.2
		eS		30	07.00	
MUN	31.06	157	iPc	25	22.60	0.3
	0.7s	138.00nm			5.8mb	
Z	20s	29.40um			5.9MszX	
N	20s	22.10um				
E	20s	23.50um				
KLB	31.35	155	eP	25	25.00	0.1
	0.6s	108.00nm			5.8mb	
HYB	31.58	312	ePd	25	26.00	-1.0
	1.0s	65.00nm			5.3mb	
		eS		30	26.00	
WARB	32.22	137	eP	25	32.00	-0.6
	0.3s	7.00nm			4.9mb	
NWAO	32.30	157	iPd	25	33.00	-0.1
	0.7s	117.00nm			5.8mb	
COOL	32.35	149	eP	25	33.50	-0.1
RKG	33.22	158	iPd	25	45.90	4.8X
	0.5s	52.00nm			5.6mb	
CD2	34.25	2	P	25	49.50	-0.5
		PcP		28	24.00	
PKI	35.08	333	P	25	56.60	-0.9
GUN	35.17	334	P	25	57.60	-0.6
DMN	35.26	332	P	25	58.00	-0.9
KKN	35.33	333	P	25	58.60	-0.9
WHN	35.67	17	Pd	26	03.00	1.0
E	11s	0.50um				
		sP		26	18.40	
		PcP		28	28.50	
		eS		31	34.00	
GKN	35.81	332	P	26	02.60	-0.8
POO	35.83	309	iPd	26	02.20	-1.4
	1.0s	82.00nm			5.6mb	
		iS		31	30.00	
FORR	36.29	141	eP	26	05.00	-2.2
BOM	36.84	308	eP	26	11.70	-0.3
		eS		30	35.20	
XAN	37.02	9	P	26	20.00	-0.1
N	11s	0.90um				
NJ2	38.59	22	Pc	26	27.90	1.4
		PcP		28	37.00	
SSE	38.70	26	iPc	26	29.00	1.6
	1.5s	120.00nm			5.5mb	
Z	20s	0.60um			4.4Msz	
		sP		26	48.00	
		PcP		28	37.00	
		S		32	18.00	
LZH	39.41	2	eP	26	34.20	0.7
	1.2s	43.00nm			5.1mb	
Z	16s	0.73um			4.6MszX	
N	12s	0.73um				
		pP		26	46.00	43kmX
		PP		28	06.00	
NDI	40.26	324	iPd	26	40.00	-0.4
	0.6s	200.00nm			6.1mb	
		eS		32	32.50	
TIA	41.78	18	eP	26	52.90	0.2
E	13s	0.83um				
		PcP		28	46.90	
		ScS		36	42.70	
TIY	42.02	12	P	26	55.00	0.3
Z	20s	0.50um			4.4Msz	
E	13s	0.80um				
GTA	42.79	357	eP	27	01.50	0.4
	1.0s	40.00nm			5.2mb	
Z	16s	0.90um			4.8MszX	
E	13s	0.50um				
		PcP		28	50.20	
		PcS		32	42.30	
BTO	44.42	8	eP	27	14.00	-0.2
N	13s	1.10um				
E	12s	0.50um				
		ePP		28	56.00	
PMG	44.60	100	eP	27	13.00	-2.9X
HHC	44.90	10	P	27	18.80	0.8
	1.2s	100.00nm			5.5mb	

Z 13s 0.50um 4.6MszX
S 33 52.00
BJI 45.09 15 eP 27 20.00 0.6
1.5s 140.00nm 5.5mb
PcP 28 58.00
ePP 29 10.00
PJG 45.22 67 eP 27 18.60 -2.2
GUA 45.25 67 eP 27 18.70 -2.3
0.7s 175.34nm 5.9mb
CTA 45.58 115 iPc 27 23.20 -0.4
1.0s 250.00nm 5.9mb
iPcP 29 01.00
iScP 32 43.00
iS 33 53.00
DL2 45.71 21 eP 27 23.00 -1.3
Z 16s 1.00um 4.9MszX
ADE 45.79 138 iPc 27 26.20 1.1
0.6s 69.33nm 5.6mb
QUE 47.81 317 iPd 27 40.60 -0.7
1.0s 33.00nm 5.1mb
eS 34 27.00
SNY 48.99 21 eP 27 47.40 -2.4
1.4s 40.00nm 5.1mb
WMO 49.00 346 Pd 27 50.00 0.0
1.0s 60.00nm 5.4mb
Z 40s 0.80um 4.4MszX
ScS 37 29.00
CMS 49.21 129 iPc 27 52.00 0.2
0.9s 64.00nm 5.5mb
e 34 54.00
BFD 49.60 138 iPd 27 56.70 2.1
RMO 49.68 122 iPc 27 55.10 -0.4
CN2 51.38 21 iPc 28 07.00 -1.0
3.0s 300.00nm 5.7mb
PcP 29 20.00
TOO 51.81 137 iPd 28 13.20 1.7
e 29 23.50
i 33 11.00
MAT 51.85 37 eP 28 10.00 -1.8
2.0s 270.59nm 5.9mb
eS 35 28.00
BRS 53.37 122 iPd 28 23.50 0.3
i 28 26.00
CNB 53.52 132 iPc 28 24.60 0.4
MDJ 53.65 24 iPd 28 24.50 -0.3
COO 53.66 126 ePc 28 26.20 1.0
0.8s 134.00nm 6.0mb
e 33 18.70
MAIO 56.46 318 iPd 28 43.50 -2.0
eS 36 24.00
SHI 58.17 308 eP 28 57.00 -0.7
RYD 61.18 301 iPd 29 18.30 0.0
KMSA 61.75 295 iPd 29 21.90 -0.3
NPA 63.40 255 eP 29 40.40 7.4X
KER 64.33 311 eP 29 36.00 -3.0X
DZM 64.45 113 iPc 29 39.10 -0.8
UOSK 65.17 300 iPd 29 45.90 1.4
TAB 66.44 314 eP 29 52.00 -0.5
BADA 72.22 301 ePc 30 28.70 0.8
LTZ 72.73 134 P 30 30.10 -0.6
BFT 72.80 244 iPc 30 33.00 1.4
1.0s 400.00nm 6.2mb
THZ 73.00 133 P 30 31.80 -0.5
KHZ 73.58 133 P 30 35.10 -0.4
0.6s 65.00nm 5.6mb
EVA 73.72 244 iP 30 39.50 2.6
e 31 03.50
TCW 73.91 132 P 30 36.40 -1.1
MRW 74.24 132 eP 30 37.70 -1.6
WEL 74.29 132 P 30 38.00 -1.7
KIW 74.33 131 P 30 39.30 -0.7
SLR 74.38 244 eP 30 42.00 1.3
e 31 07.00
CAW 74.49 132 eP 30 39.90 -1.0
CNZ 74.56 130 P 30 41.90 0.4
NGZ 74.60 130 P 30 41.90 0.2
MNG 74.72 131 P 30 41.70 -0.5
MTW 74.82 132 eP 30 42.30 -0.5
BLW 74.83 132 P 30 43.20 0.4
SEK 75.14 242 eP 30 50.00 4.9X
PGZ 75.32 131 P 30 45.50 -0.1
0.7s 204.00nm 6.0mb
KSR 75.64 244 eP 30 49.00 1.1
1.0s 400.00nm 6.2mb
NOZ 76.42 129 eP 30 50.30 -1.5
BLF 76.45 241 eP 30 51.50 -0.9
e 31 26.00

PUZ 76.53 128 P 30 51.70 -0.8
VRI 82.75 317 eP 31 30.00 4.4X
CVO 83.11 317 eP 31 28.00 0.5
MLR 83.20 316 eP 31 31.00 2.9X
e 41 37.50
BCAO 84.39 275 iPd 31 36.20 1.6
1.2s 70.00nm 5.4mb
id 32 02.00
VAY 84.85 312 eP 31 36.20 -0.1
OHR 86.14 311 eP 31 39.30 -3.5X
KAF 86.72 333 eP 31 45.30 0.3
0.7s 27.30nm 5.4mb
BEO 86.91 315 eP 31 52.00 5.7X
NUR 87.14 331 iP 31 47.20 0.2
0.7s 22.70nm 5.3mb
SPC 87.66 319 eP 31 50.20 0.1
SOD 87.86 338 iP 31 50.80 0.3
KRA 87.98 320 eP 31 52.60 1.3
e 32 09.80
KEV 88.33 340 iP 31 52.40 -0.2
SRO 88.76 318 iP 31 57.20 2.1
i 32 03.40
ZST 89.61 318 e(P) 32 00.50 1.4
PTJ 90.18 316 iPd 32 02.90 1.0
KSP 90.38 321 ePd 32 03.80 1.2
e 35 38.50
e 42 52.00
e 43 38.00
VBY 90.64 315 eP 32 05.20 1.3
PRU 91.43 320 eP 32 08.50 1.0
e 32 16.00
BRG 91.87 321 iP 32 10.00 0.6
1.4s 19.00nm 5.2mb
i 32 18.50
e 32 42.00
e 35 50.00
KHC 92.01 319 eP 32 11.10 0.9
CLL 92.48 321 e(P) 32 10.00 -2.3
e 32 21.00
eS 42 30.00
HFS 92.49 330 eP 32 11.60 -0.5
0.7s 3.80nm 4.8mb
SQTA 93.52 317 eP 32 17.00 -0.3
0.8s 4.50nm 4.9mb
N82 93.74 331 P 32 17.40 -0.5
0.9s 8.90nm 5.1mb
MBC 103.69 9 ePdiff33 03.00 0.6
0.9s 5.00nm 5.4mb
INK 105.26 19 ePdiff33 09.00 -0.5
INK 105.26 19 ePKP 37 22.00 -1.1
YKA 115.02 18 ePKP 37 39.40 -2.5
0.9s 4.30nm
FRB 119.55 356 ePKP 37 49.00 -1.4
PNT 121.98 31 ePKP 37 56.00 0.4
0.8s 43.00nm
WDC 125.13 41 ePKPc 38 01.50 -0.4
FFC 125.17 17 iPKPc 38 00.70 -0.8
0.9s 26.00nm
SES 125.34 26 ePKPd 38 01.40 -0.7
DRV 126.34 42 ePKP 38 04.30 0.0
PCC 126.74 45 ePKP 38 05.40 0.3
MHC 127.33 44 ePKP 38 06.80 0.3
SAO 127.75 45 ePKP 38 08.00 0.9
CMB 127.86 43 ePKPc 38 07.00 -0.3
LRM 127.93 31 ePKP 38 06.50 -1.0
PRS 128.00 45 ePKP 38 08.30 0.7
LLA 128.17 45 ePKP 38 08.40 0.5
PRI 128.60 45 ePKP 38 09.90 1.0
FRI 128.85 44 ePKP 38 08.80 -0.3
SYP 129.86 47 ePKP 38 13.00 1.6
CLC 130.91 44 ePKP 38 13.00 -0.2
SBB 131.33 45 ePKP 38 14.00 -0.1
MWC 131.39 46 ePKP 38 15.00 0.6
GSC 131.73 44 ePKP 38 14.00 -0.8
RVR 132.00 46 ePKP 38 16.00 0.7
PLM 132.69 46 ePKP 38 18.00 1.2
TPC 132.89 45 ePKP 38 18.00 1.0
BAR 133.17 47 ePKP 38 18.00 0.4
GLA 134.31 46 ePKP 38 20.00 0.3
GAC 137.95 358 ePKP 38 19.00 -7.1X
ALO 138.70 37 e(PKP) 38 19.00 -9.2X
SOB1 141.51 251 ePKP 38 30.20 -3.3X
e 39 45.40
e 42 01.00
MEO 143.18 30 ePKP 38 31.10 -4.7X
TUL 143.55 26 ePKP 38 32.60 -3.8X
0.8s 67.90nm

FVM 143.67 18 PKP 38 32.70 -3.9X
PPD 144.02 224 ePKP 38 36.40 -1.2
e 42 05.60
ELC 144.67 16 PKP 38 36.40 -1.9
BAO 145.25 236 ePKPd 38 35.70 -4.3X
CBN 145.47 0 ePKP 38 39.00 -0.6
1.2s 11.20nm
NA2 145.55 1 PKP 38 38.60 -1.1
OLY 145.60 21 PKP 38 39.10 -0.8
CVL 145.68 2 PKP 38 40.00 0.0
NAV 146.21 5 PKP 38 40.30 -0.6
BLA 146.35 4 PKP 38 41.00 -0.2
0.7s 19.44nm
PWLA 147.16 16 PKP 38 43.60 1.2
RSCP 147.18 12 PKP 38 42.80 0.3
GBTN 147.39 10 PKP 38 44.60 1.8
TKL 147.47 10 PKP 38 44.40 1.5
LHS 149.03 6 PKP 38 48.60 3.2X
JSC 149.18 6 PKP 38 49.20 3.5X
PRM 149.23 8 PKP 38 49.60 3.8X
SGS 150.33 5 PKP 38 52.60 5.2X
HBF 150.60 5 PKP 38 53.20 5.4X
PPM 154.11 52 iPKP 38 55.30 1.4
SIV 154.79 219 PKP 38 54.40 0.2
ZOBO 158.32 205 PKP 39 00.70 1.3
1.0s 14.25nm
S.D. = 1.1 on 169 of 193 obs.

JAN 26, 1991 01h 07m 15.38± 0.27s
2.092 S ± 4.2km 139.135 E ± 6.2km
DEPTH = 33.0km (normal)
5.0mb (15 obs.) 4.3Msz (4 obs.)
NEAR N. COAST OF WEST IRIAN (197)

MNDI 6.05 132 eP 08 52.00 6.8X
PMG 10.79 133 eP 09 53.00 2.3
MTN 13.30 216 eP 10 23.30 -1.2
0.3s 134.00nm 6.4mb X
KNA 16.99 216 eP 11 11.80 -0.4
eS 14 09.00
CTA 19.19 159 iPc 11 39.90 0.5
1.0s 12.00nm 4.1mb
BKB2 22.24 272 iPc 12 16.00 4.9X
PPR 23.49 300 ePd 12 25.00 1.7
PGP 23.78 311 eP 12 28.00 2.0
RMO 25.96 160 iPd 12 47.70 0.9
1.0s 78.00nm 5.3mb
MBL 26.70 223 eP 12 54.20 0.5
WARB 26.80 206 eP 12 55.00 0.5
0.4s 17.00nm 5.0mb
BRS 28.35 154 eP 13 06.00 -2.6X
FORR 30.45 199 iPc 13 26.00 -1.3
ADE 32.71 181 eP 13 48.00 0.9
DZM 33.15 129 iPc 13 50.90 -0.3
MRWA 34.82 217 eP 14 05.00 -0.4
0.4s 7.00nm 4.9mb
BFD 35.05 175 eP 14 09.00 1.7
KLB 35.61 212 eP 14 12.00 -0.1
0.8s 30.00nm 5.3mb
MUN 36.75 214 eP 14 22.00 0.3
NWAO 36.92 211 eP 14 23.50 0.4
1.0s 15.00nm 4.8mb
SSE 37.16 334 P 14 25.00 -0.1
1.0s 12.00nm 4.7mb
Z 20s 0.50um 4.3Msz
eS 20 14.00
NJ2 39.03 332 Pd 14 41.00 0.2
Z 18s 0.30um 4.2Msz
SNG 39.53 284 ePd 14 45.90 0.7
WHN 40.14 326 eP 14 51.70 1.6
LOE 41.66 299 eP 15 02.00 -0.7
NST 42.41 296 eP 15 09.00 0.2
TIA 43.28 334 eP 15 16.00 0.3
BDT 43.99 298 eP 15 21.80 0.1
KMI 44.45 310 eP 15 26.50 0.9
CHG 44.64 300 ePc 15 27.00 0.0
1.2s 24.61nm 4.9mb
XAN 45.82 324 P 15 36.40 0.2
BJI 46.91 336 eP 15 44.00 -0.6
0.8s 18.00nm 5.1mb
Z 20s 0.36um 4.3Msz
e 16 14.50
CD2 47.02 317 P 15 45.70 0.0
S 22 32.00
MDJ 47.28 351 eP 15 47.50 0.0
CN2 47.31 347 P 15 48.00 0.3
HHC 49.58 333 P 16 05.80 0.3

26d 01h

BTO	50.11	331	eP	16	11.00	1.4
SHL	53.34	304	eP	16	33.50	-0.7
GTA	54.83	323	eP	16	44.60	-0.3
	1.2s	10.00nm			4.7mb	
			pP	16	52.00	24kmX
GUN	59.19	304	P	17	16.20	-0.1
	1.0s	50.00nm			5.6mb	
PKI	59.46	304	P	17	17.80	-0.4
	0.9s	16.00nm			5.1mb	
KKN	59.64	304	P	17	18.80	-0.5
	1.0s	70.00nm			5.7mb	
DMN	59.72	304	P	17	20.00	0.1
GKN	60.25	304	P	17	23.00	-0.4
	1.0s	70.00nm			5.7mb	
HYB	62.75	291	eP	17	39.30	-0.9
GBA	63.12	286	P	17	42.10	-0.5
WMQ	64.79	321	P	17	53.00	-0.3
QUE	75.72	302	eP	19	00.90	0.8
YKA	99.32	27	eP	20	55.30	0.0
	0.9s	0.70nm			4.2mb	
KIC	143.74	278	PKP	26	47.52	-2.4X
	1.3s	24.50nm				
TIC	143.99	278	PKP	26	48.40	-1.9
ANCC	144.02	87	ePKPc	26	48.09	-2.4X
LIC	144.03	278	PKP	26	48.50	-1.9
	1.4s	48.00nm				
SALC	144.19	88	ePKP	26	49.58	-1.3
HOOC	144.25	87	ePKPc	26	49.51	-1.6
CLMC	144.31	86	ePKP	26	50.75	-0.4
SILC	144.55	88	ePKPc	26	51.48	-0.3
ARE	144.58	122	ePKP	26	52.00	0.4
BUGC	144.61	86	ePKPc	26	50.73	-0.8
DIAC	144.69	87	iPKPc	26	50.89	-0.9
HOBC	144.72	85	ePKPc	26	50.62	-1.1
CNCB	147.30	126	PKP	27	01.00	4.6X
LPB	147.36	126	PKP	27	02.00	5.7X
ZOBO	147.47	125	PKP	27	00.80	4.1X
	1.1s	26.10nm				
	Z 20s	0.12um			4.7Msz	
			LR	35	36.00	
SIV	153.13	133	PKP	27	12.60	8.0X
	S.D. = 0.9	on 56 of 65 obs.				

JAN 26, 1991 01h 26m 32.49± 0.45s
42.123 N ± 5.0km 13.274 E ± 4.7km
DEPTH = 28.7 ± 4.5 km
4.1mb (2 obs.)
CENTRAL ITALY (381)
MD 4.0 (TRI), 3.9 (ROM).

AZI	0.18	138	P	26	36.50	-1.8
MNS	0.51	301	Pd	26	41.50	-1.6
RMP	0.53	234	Pc	26	43.80	0.5
			iSg	26	52.00	
RDP	0.55	229	P	26	44.80	1.1
			eSg	26	52.00	
SDI	0.58	136	Pd	26	43.60	-0.6
			iSg	26	54.00	
DUI	1.00	117	P	26	51.20	0.6
			eSn	27	07.50	
ASS	1.05	335	Pd	26	50.00	-1.3
			iSg	27	06.50	
ARV	1.40	350	P	26	56.50	0.3
			iSg	27	16.50	
CRE	1.79	328	P	27	03.80	1.8
			eSn	27	26.20	
SFI	2.08	330	P	27	07.80	1.8
			eSn	27	32.00	
FIR	2.22	319	ePn	27	09.00	1.0
			iSn	27	37.00	
BDI	2.76	316	P	27	17.50	1.7
MME	2.80	319	P	27	16.50	0.0
PGF	3.20	279	Pn	27	22.30	0.2
RIY	3.32	14	eP	27	23.80	0.2
TRI	3.60	5	ePn	27	26.70	-1.0
			iSn	28	17.60	
			iSb	28	36.50	
			iSg	28	43.60	
VBY	3.67	22	ePn	27	31.40	2.7X
			iSn	28	15.90	
CEY	3.71	13	e(Pn)	27	35.00	5.8X
			e	27	44.40	
			eSn	28	15.80	
VOY	3.93	6	e(Pn)	27	32.20	-0.3
			eSn	28	19.00	
			i	28	5[illegible] 30	
LJU	4.02	13	ePn	27	3[illegible] 20	0.5
			eSn	28	21.20	
CTI	4.09	344	P	27	35.20	0.4
ZAG	4.18	27	ePn	27	40.00	4.2X
PTJ	4.24	26	ePn	27	39.90	3.0X
MDI	4.47	326	P	27	41.00	1.0
FVI	4.48	356	P	27	40.80	0.6
SBF	4.62	294	Pn	27	40.80	-1.5
OGA	5.01	342	ePn	27	47.50	-0.4
SCE	5.04	348	ePn	27	48.30	0.0
LMR	5.13	286	Pn	27	47.70	-1.7
SOTA	5.31	345	iPnc	27	52.60	0.7
	0.4s	16.20nm			4.9mb	
			i	27	59.50	
			iSn	28	56.10	
BHG	5.61	357	ePn	27	55.60	-0.5
OHR	5.73	98	ePn	27	58.70	0.8
LPG	5.80	308	Pn	27	58.40	-0.7
LPL	5.82	308	Pn	27	58.50	-0.9
SKO	6.08	89	ePn	27	58.80	-4.0X
VKA	6.51	18	e(Pn)	28	09.00	0.2
			e	29	14.00	
KHC	7.01	2	ePn	28	15.00	-0.9
			e	29	31.90	
BSF	7.33	323	Pn	28	17.80	-2.5X
			Sn	29	40.40	
CDF	7.58	328	Pn	28	20.90	-2.9X
HAU	7.66	323	Pn	28	22.30	-2.6X
			Sn	29	50.80	
GRF	7.70	350	e(Pn)	28	24.00	-1.5
			e(Pg)	28	42.00	
			e(Sg)	29	47.00	
PRU	7.92	6	eP	28	42.50	14.0X
			e	29	54.00	
			e	30	37.00	
YKA	67.68	337	eP	37	30.60	1.9
	0.4s	0.10nm			3.3mb	
	S.D. = 1.1	on 34 of 43 obs.				

• JAN 26, 1991 02h 15m 28.63± 2.58s
3.212 S ± 5.1km 81.392 W ±33.6km
DEPTH = 33.0km (normal)
NEAR COAST OF NORTHERN PERU (109)

TUNG	3.44	59	P	16	21.50	-0.1
			eS	16	54.00	
GGP	4.11	43	Pd	16	35.00	3.7X
YANA	4.17	43	iPd	16	35.50	3.4X
COTA	4.66	41	P	16	43.00	4.0X
CAYA	4.72	46	ePn	16	40.50	0.6
CUMC	5.44	40	ePc	16	53.20	3.2X
SALC	7.73	37	eP	17	22.20	0.3
SILC	7.74	41	eP	17	25.00	2.8X
ANCC	8.07	34	eP	17	26.70	0.2
HOOC	8.16	36	eP	17	28.00	-0.1
DIAC	8.29	39	eP	17	29.00	-0.7
CLMC	8.54	34	eP	17	33.20	0.0
HOBC	9.17	35	eP	17	46.00	4.2X
NNA	9.81	153	eP	17	51.00	0.3
	0.7s	7.53nm			5.0mb X	
			eS	19	29.00	
ZOBO	18.40	136	eP	19	44.00	0.4
LPB	18.60	136	P	19	48.00	2.1X
CNCB	18.87	137	P	19	49.00	-0.4
SIV	23.68	124	P	20	38.00	-0.4
	S.D. = 0.4	on 11 of 18 obs.				

% JAN 26, 1991 02h 45m 24.66± 0.75s
40.316 N ± 8.2km 27.325 E ± 5.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.9 (ISK).

EDC	0.41	86	iPg	45	33.00	-0.1
			iSg	45	39.00	
BNT	0.46	85	iPg	45	33.60	-0.4
			iSg	45	39.60	
EZN	0.91	238	iPn	45	42.00	-0.1
DST	1.23	125	iPn	45	47.60	0.1
ISK	1.52	60	ePn	45	52.20	0.4
DMK	1.54	12	ePn	45	52.00	-0.2
YLV	1.58	80	iPn	45	53.10	0.2
HRT	1.86	73	ePn	45	59.00	2.2X
	S.D. = 0.3	on 7 of 8 obs.				

JAN 26, 1991 03h 21m 22.61± 0.35s
41.536 N ± 4.0km 81.453 W ± 3.8km
DEPTH = 5.0km (geophysicist)

OHIO (471)

mbLg 3.2 (NEIS), 3.4 (TUL). Felt (V) at Brecksville, Broadview Heights, Cleveland and Thompson; (IV) at Elyria, Highland Heights, Lakewood, Lorain, Munroe Falls and Parma; (III) at Amherst, Chardon, Chesterland, Grand River, Madison, Mentor, Mogadore, North Olmsted, Solon and Twinsburg.

DLA	1.32	356	P	21	46.50	-1.0
			S	22	03.00	
LDN	1.52	7	P	21	50.05	-0.4
			S	22	09.40	
ELF	1.66	3	P	21	52.60	0.1
			S	22	13.40	
AN7	1.95	249	P	21	57.20	0.5
AN3	2.04	242	P	21	58.00	0.0
AN12	2.15	254	P	21	59.50	-0.1
AN1	2.29	243	P	22	02.00	0.4
WVLY	2.34	66	ePn	22	03.70	1.2
			ePg	22	05.60	
AN8	2.51	240	P	22	04.80	0.1
CVL	4.23	146	eP	22	27.40	-1.8
NAV	4.24	173	eP	22	29.20	-0.2
BLA	4.39	169	eP	22	31.90	0.4
NA2	4.44	139	eP	22	32.10	0.0
CBN	4.57	135	eP	22	45.00	11.0X
			eLg	23	48.00	
LVNJ	5.10	96	e(P)	22	42.00	0.5
GMTN	5.52	94	iP	23	03.60	16.1X
PNJ	5.54	94	ePn	22	47.90	0.2
			Pg	23	03.90	
			Sn	24	14.80	
			Sg	24	21.80	
RSNY	5.90	57	e(P)	22	53.00	0.2
GAC	6.01	44	P	23	08.00	13.7X
TKL	6.14	198	eP	22	53.80	-2.4X
GBTN	6.25	201	eP	22	55.50	-2.2X
RSCP	6.75	210	P	23	13.00	8.2X
HBVT	6.77	63	e(P)	23	04.90	-0.2
ELC	7.36	237	eP	23	09.30	-4.1X
TUL	12.52	248	(Pn)	24	17.00	-7.3X
			Lg	27	43.00	
	S.D. = 0.7	on 17 of 25 obs.				

JAN 26, 1991 03h 27m 16.69± 0.36s
7.345 S ± 5.9km 74.548 W ± 8.9km
DEPTH = 162.0km (3 depth phases)
4.5mb (19 obs.)
PERU-BRAZIL BORDER REGION (112)

NNA	5.14	206	iPd	28	35.50	2.5
	0.4s	7.63nm			4.3mb	
			eS	29	18.50	
TUNG	7.05	326	iP	28	56.80	-2.1
VC1	7.69	330	P	29	06.70	-0.9
CAYA	8.13	335	eP	29	11.50	-1.9
GGP	8.19	330	eP	29	12.50	-1.7
YANA	8.23	331	eP	29	13.20	-1.4
COTA	8.51	333	eP	29	20.00	1.5
SILC	10.13	350	eP	29	39.83	0.2
SALC	10.47	348	eP	29	44.08	0.2
DIAC	10.69	351	eP	29	47.69	0.9
ZOBO	10.87	145	Pd	29	48.30	-1.2
HOOC	10.94	349	eP	29	50.71	0.5
ANCC	11.03	348	eP	29	52.01	0.9
LPB	11.10	146	P	29	50.00	-2.3
CLMC	11.33	350	eP	29	55.88	0.7
CNCB	11.39	146	P	29	55.00	-1.3
PPD	26.74	126	eP	32	44.20	1.0
BAO	27.27	110	ePc	32	51.40	3.3X
BLA	44.66	353	eP	35	16.00	1.1
TUL	47.44	336	eP	35	35.70	-1.1
	0.6s	8.80nm			4.6mb	
FVM	47.46	343	eP	35	36.00	-0.9
	0.6s	18.21nm			4.9mb	
ALQ	51.73	326	eP	36	10.00	0.2
	0.9s	7.98nm			4.4mb	
			e	36	48.00	167km
PV09	55.80	327	eP	36	40.00	0.4
BW06	59.19	331	eP	37	02.20	-0.9
TNP	60.16	322	eP	37	10.50	0.7
	0.8s	1.47nm			3.9mb	
SES	65.62	335	iPd	37	45.20	-0.1

```
FFC     65.97 343 iPc    37 47.10  -0.3
        0.6s     9.00nm           4.8mb
PNT     68.75 330 eP     38 06.00   1.1
        0.6s    10.00nm           4.8mb
LIC     70.65  81 P      38 17.00  -0.1
KIC     70.95  81 P      38 18.00  -0.9
YKA     76.11 342 eP     38 47.00  -0.8
        0.4s     3.00nm           4.4mb
EPF     84.07  45 eP     39 31.40   0.9
        0.6s     3.15nm           4.3mb
LPF     84.56  40 eP     39 32.60  -0.1
        0.7s     4.40nm           4.4mb
MFF     84.73  42 eP     39 33.90   0.3
        0.7s     5.50nm           4.5mb
GRR     84.78  40 eP     39 33.80   0.0
        0.7s     6.60nm           4.6mb
LFF     84.87  44 eP     39 34.80   0.5
        0.6s     8.10nm           4.7mb
LPO     85.10  44 eP     39 36.00   0.4
        0.7s     6.60nm           4.6mb
FLN     85.13  40 eP     39 35.70   0.1
        0.6s     5.40nm           4.5mb
LDF     85.31  40 eP     39 36.50   0.0
RJF     85.49  43 eP     39 37.80   0.3
CAF     85.77  44 eP     39 39.10   0.2
        0.5s     2.90nm           4.4mb
INK     85.86 341 eP     39 39.30   0.5
                  pP     40 20.00 162km
MBC     87.41 350 iPd    39 47.60   1.4
        0.7s    22.00nm           5.2mb
                  pP     40 27.20 157km
LPL     89.12  44 eP     39 55.70   0.5
        0.6s     3.60nm           4.6mb
LPG     89.13  44 eP     39 56.00   0.7
        0.6s     3.60nm           4.6mb
WRA    140.71 226 PKP    46 30.00   0.4
        0.6s     3.70nm
MBL    148.35 206 ePKP   46 47.80   5.4X
GKN    151.54  41 PKP    46 55.00   7.7X
        0.5s    23.00nm
GBA    151.78  75 PKPd   46 54.80   7.1X
        0.5s     4.50nm
KKN    152.10  41 PKP    46 56.20   8.0X
        0.6s    16.00nm
DMN    152.11  41 PKP    46 56.20   7.9X
        0.6s    13.00nm
SSE    152.16 330 ePKP   46 56.00   8.1X
PKI    152.33  41 PKP    46 56.60   7.9X
GUN    152.40  40 PKP    46 57.20   8.4X
        0.4s     5.00nm
CHG    166.96  28 ePKP   47 22.10  17.5X
      S.D. = 1.1  on  45 of  55 obs.
-------------------------------------
&  JAN  26, 1991  04h 01m 04.67s
   41.882 N          112.612 W
   DEPTH =  13.8km
 UTAH                              (478)
      <SLC-P>. ML 2.8 (SLC).

PTI      1.00  10 eP     01 24.50   1.0
DUG      1.69 185 eP     01 34.50   0.4
DAU      1.79 145 eP     01 36.50   0.8
BW06     2.44  67 eP     01 48.00   3.1
MSU      3.38 174 eP     01 59.20   0.9
         5 obs. ossocioted
-------------------------------------
?  JAN  26, 1991  04h 56m 39.07± 0.98s
   42.217 N ±14.3km   13.261 E ±15.7km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                     (381)

AZI      0.26 150 P      56 45.00   0.4
                 eSg     56 51.00
MNS      0.46 291 P      56 48.40  -0.1
                 eSg     56 55.40
SDI      0.66 141 P      56 51.80  -0.4
                 eSg     57 02.00
ASS      0.96 333 P      56 57.50   0.1
                 eSg     57 13.00
      S.D. = 0.6  on   4 of   4 obs.
-------------------------------------
*  JAN  26, 1991  05h 28m 07.59± 0.79s
   37.314 S ± 7.5km   177.018 E ±10.2km
   DEPTH = 289.6 ±  6.6 km
   4.7mb (  1 obs.)
 OFF E. COAST OF N. ISLAND, N.Z. (160)

TAZ      1.00 204 Pc     28 46.90  -0.2
HBZ      1.06 106 Pc     28 46.10  -1.3
PUZ      1.24 128 Pc     28 47.90  -0.5
                 eS     29 16.60
WLZ      1.25 245 P      28 47.80  -0.7
HUTZ     1.51 209 P      28 50.30   0.2
NOZ      1.53 149 Pc     28 50.90   0.7
WHH      1.62 195 Pd     28 50.80  -0.2
HITZ     1.71 215 P      28 51.90   0.4
HATZ     1.74 205 eP     28 51.80   0.1
MOH      1.82 177 Pd     28 53.20   0.9
RATZ     1.84 212 P      28 52.80   0.3
KETZ     2.08 211 Pc     28 55.00   0.4
NGZ      2.17 211 P      28 55.50   0.1
CNZ      2.21 211 P      28 55.80   0.1
TTH      2.23 184 P      28 56.80   1.1
DRZ      2.27 210 P      28 57.00   0.6
PGZ      3.35 190 Pc     29 07.10   0.5
MNG      3.51 199 Pc     29 08.30   0.0
                 S      29 54.60
KIW      3.90 204 P      29 12.30  -0.3
MTW      4.02 197 P      29 13.60  -0.3
CAW      4.08 201 P      29 14.40  -0.2
BLW      4.22 196 eP     29 16.40   0.2
WDW      4.25 201 P      29 16.10  -0.4
MRW      4.30 204 eP     29 16.70  -0.4
                 S      30 10.20
MOW      4.32 198 P      29 17.10  -0.3
WEL      4.33 203 eP     29 17.50   0.1
                 eS     30 09.40
TCW      4.44 208 P      29 18.20  -0.4
CCW      4.93 205 P      29 25.00   0.6
THZ      5.46 214 P      29 29.90  -0.9
KHZ      5.76 207 eP     29 34.50   0.3
LTZ      6.56 212 P      29 43.40  -0.7
                 S      30 57.30
MOZ      7.20 206 P      29 51.30  -0.5
                 S      31 11.50
WRA     40.88 283 P      35 24.00   0.6
         0.4s    19.90nm          4.7mb
KAF    149.28 333 iPKP   47 23.00   5.4X
         0.3s     1.60nm
NUR    150.93 332 ePKP   47 27.40   7.3X
      S.D. = 0.6  on  33 of  35 obs.
-------------------------------------
*  JAN  26, 1991  06h 31m 04.84± 0.75s
   37.393 N ±12.3km   72.064 E ±12.3km
   DEPTH =  33.0km  (normal)
   4.0mb (  4 obs.)
 TAJIK SSR                         (715)

QUE      8.35 212 eP     33 07.50   0.8
MAIO    10.13 268 eP     33 20.00 -11.2X
                 eS     35 03.00
GKN     14.12 128 P      34 25.40   0.7
KKN     14.68 127 P      34 31.60  -0.5
DMN     14.69 128 P      34 32.00  -0.3
PKI     14.91 127 P      34 34.20  -1.1
GUN     14.98 125 P      34 36.20   0.0
GBA     24.17 167 Pd     36 22.00   2.9X
         1.0s     4.10nm          3.9mb
HFS     42.90 321 eP     39 00.10  -1.4
         0.5s     1.70nm          4.0mb
NB2     44.19 322 P      39 10.40  -1.6
         0.8s     3.10nm          4.2mb
MBC     66.40   3 eP     41 55.00   2.8X
INK     72.89  10 eP     42 34.00   2.1
YKA     80.31   3 eP     43 14.90   1.4
         0.8s     1.00nm          3.9mb
      S.D. = 1.4  on  10 of  13 obs.
-------------------------------------
?  JAN  26, 1991  07h 15m 13.28± 4.62s
   5.010 N ±48.0km   76.092 W ±35.7km
   DEPTH = 110.0km  (geophysicist)
 COLOMBIA                          (103)
      MD 3.1 (UVC).

HOBC     0.65 184 iPd    15 31.58  -0.1
                 eS     15 44.90
BUGC     1.12 188 eP     15 36.52   0.3
CLMC     1.22 203 eP     15 37.52   0.2
HOQC     1.62 199 eP     15 42.12  -0.2
                 eS     16 03.30
ANCC     1.67 208 eP     15 42.27  -0.4
DIAC     1.71 184 eP     15 42.86  -0.4
SALC     2.11 197 eP     15 48.86   0.5
      S.D. = 0.4  on   7 of   7 obs.
-------------------------------------
?  JAN  26, 1991  07h 38m 29.54± 1.49s
   9.814 N ±42.2km   82.481 W ±19.9km
   DEPTH =  33.0km  (normal)
   4.4mb (  2 obs.)
 PANAMA-COSTA RICA BORDER REGION ( 80)

ECO      2.79  99 iPc    39 12.80   0.0
                 (S)    39 55.60
UPA      3.02 106 iPd    39 16.30   0.1
                 S      40 02.90
GLA     37.70 313 eP     45 44.00   0.1
TPC     39.11 313 eP     45 56.00   0.2
PLM     39.33 312 eP     45 57.00  -0.8
GSC     40.25 314 eP     46 06.00   0.8
MWC     40.62 312 eP     46 16.00   7.6X
SBB     40.68 313 eP     46 08.00  -0.7
CLC     41.07 315 eP     46 12.00   0.1
ISA     41.61 314 eP     46 16.00  -0.4
PNT     50.04 329 eP     47 25.00   2.0
YKA     57.49 343 eP     48 16.70  -0.9
         1.3s     2.50nm          4.1mb
INK     67.19 342 eP     49 22.00  -0.2
MBC     69.32 351 eP     49 35.00  -0.3
         1.0s     6.00nm          4.6mb
      S.D. = 0.8  on  13 of  14 obs.
-------------------------------------
   JAN  26, 1991  08h 14m 07.11± 1.44s
   37.066 N ± 6.5km   71.045 E ± 4.1km
   DEPTH =  55.4 ± 14.3 km
   5.0mb ( 29 obs.)  4.4Msz (  9 obs.)
 AFGHANISTAN-USSR BORDER REGION  (717)
      Felt (III) at Kharog and
      Roshtkolo, USSR.

KSH      4.56  57 Pn     15 15.00  -0.3
                 Sn     16 07.40
QUE      7.66 208 eP     15 58.20  -0.6
         0.7s    45.21nm          5.4mb X
                 eS     17 29.20
NDI      9.84 146 iPd    16 24.20  -4.3X
         0.5s    49.30nm          5.9mb
                 iS     18 13.00
WMO     14.35  57 P      17 22.90  -5.9X
      Z  18s     1.10um
      N  10s     1.50um
                 PP     17 35.00
                 eS     20 08.00
                 SS     20 25.00
GKN     14.58 124 P      17 23.80  -8.1X
KKN     15.15 124 P      17 29.80  -9.5X
DMN     15.16 124 P      17 30.20  -9.2X
PKI     15.38 124 P      17 32.20 -10.2X
GUN     15.48 122 P      17 33.80  -9.9X
LSA     18.31 108 P      18 12.80  -6.4X
                 sP     18 25.70
                 S      21 42.00
                 sS     21 48.00
POO     18.63 172 eP     18 23.00   0.3
                 iS     25 24.00
TAB     19.61 280 eP+    18 35.00   1.2
HYB     20.66 159 eP     18 43.00  -1.7
         0.8s    84.60nm          5.1mb
                 eS     22 41.00
GTA     22.68  75 eP     19 04.00  -0.8
         0.8s    10.00nm          4.3mb
      Z  14s     1.50um          4.6MszX
      E  11s     1.30um
                 pP     19 11.20  26kmX
                 sP     19 15.10
                 eS     23 12.00
                 sS     23 21.50
GBA     24.05 165 P      19 17.50  -0.6
                 S      23 51.50
LZH     26.29  82 eP     19 39.00  -0.3
         2.0s    39.00nm          4.6mb
      Z  18s     0.87um          4.3Msz
      N  15s     1.42um
                 pP     19 47.00  28kmX
                 sP     19 51.00
KOD     27.34 166 eP     19 52.30   3.2X
KMI     29.50 105 eP     20 08.00  -0.5
      Z  14s     1.00um          4.6MszX
      E  12s     0.50um
BTO     30.40  71 eP     20 18.00   1.8
      N  14s     0.90um
      E  12s     0.60um
```

26d 08h

			eS	25	17.50			SAX		45.76	303	ePd	22	24.30	-0.6		CRP	1.21	289	eP	24	05.09	0.0
CHG	30.46	119	eP	20	17.00	0.2		CDF		46.91	305	eP	22	33.60	-0.2					eS	24	21.60	
CHTO	30.46	119	eP	20	17.00	0.2		PGF		47.04	297	eP	22	34.40	-0.5		BRLK	1.25	206	eP	24	05.32	-0.3
	0.8s		7.32nm			4.5mb				0.9s		19.65nm			5.0mb		CKL	1.27	285	iP	24	05.80	-0.2
XAN	30.83	84	P	20	21.60	1.6		DIX		47.30	302	ePd	22	37.10	0.0		BGL	1.32	288	iP	24	06.53	0.0
N	10s		0.70um					BSF		47.34	304	eP	22	36.60	-0.7		RDT	1.32	257	iP	24	06.30	-0.3
HHC	31.54	70	eP	20	25.00	-1.2				0.8s		18.80nm			5.1mb					eS	24	23.91	
Z	18s		1.20um			4.6Msz		HAU		47.60	305	eP	22	38.60	-0.6		GLI	1.32	89	iP	24	05.34	-1.2
N	15s		0.60um					EMS		47.63	302	ePd	22	39.20	-0.4					eS	24	22.19	
E	11s		0.40um					S8F		47.81	299	eP	22	40.90	0.0		MTU	1.40	129	eP	24	07.25	-0.3
			eS	25	33.00					0.7s		13.25nm			5.0mb		REF	1.48	256	iP	24	08.89	-0.1
GYA	31.91	99	P	20	30.40	0.8		LPG		47.88	301	eP	22	41.60	-0.1		RDN	1.51	257	iP	24	08.86	-0.4
N	12s		0.80um							0.9s		13.90nm			5.0mb					iS	24	28.52	
E	12s		0.40um					LPL		47.89	301	eP	22	41.70	0.0		RSO	1.52	255	iP	24	09.39	-0.1
TIY	32.70	76	eP	20	35.40	-0.9				1.0s		19.00nm			5.0mb		RS2	1.52	255	iP	24	09.44	-0.1
Z	15s		1.00um			4.6MszX		RSL		47.92	302	P	22	41.84	0.0		CUT	1.54	352	eP	24	09.92	0.4
N	13s		0.90um					LBF		49.40	304	eP	22	52.00	-1.1		RED	1.54	253	iP	24	09.60	-0.1
MLR	34.54	299	eP	21	03.00	10.8X		LOR		49.41	304	eP	22	52.10	-1.0					eS	24	29.98	
BJI	35.13	71	eP	20	56.50	-0.7			Z	19s		0.28um			4.3Msz		HOM	1.54	217	eP	24	09.87	0.3
Z	18s		0.88um			4.6Msz		SMF		49.57	303	eP	22	53.80	-0.6		CNPM	1.55	208	eP	24	09.44	-0.3
N	12s		0.64um							0.7s		12.15nm			5.0mb					eS	24	28.08	
WHN	36.33	87	eP	21	09.50	2.2		SSF		49.69	304	eP	22	54.60	-0.6		NCT	1.57	259	iP	24	09.98	-0.2
TIA	36.71	77	eP	21	12.60	2.1		AVF		49.86	304	eP	22	56.10	-0.4					eS	24	30.40	
N	14s		1.20um							0.7s		15.45nm			5.1mb		VZW	1.59	82	eP	24	09.37	-1.0
KAF	37.17	327	eP	21	17.20	3.1X		BGF		50.26	304	eP	22	58.90	-0.7		VLZ	1.71	80	eP	24	11.17	-0.7
NUR	37.39	324	eP	21	17.50	1.6		MAF		50.53	303	eP	23	01.50	-0.2		XLV	1.73	215	eP	24	12.69	0.4
SPC	38.32	305	eP	21	24.80	0.7				0.8s		12.10nm			5.0mb		KLU	1.97	70	iP	24	15.00	-0.8
KRA	38.50	306	eP	21	25.50	0.1		TCF		50.75	303	eP	23	03.20	-0.2		TOA	2.12	53	ePd	24	19.40	1.4
	1.0s		43.00nm			5.3mb				1.0s		12.00nm			4.9mb		AUE	2.36	231	eP	24	20.59	-0.7
Z	15s		1.60um			5.0MszX		LSF		51.22	303	eP	23	06.20	-0.7		AUI	2.40	231	eP	24	22.43	0.6
E	15s		2.00um					CAF		51.23	302	eP	23	06.40	-0.6		TZL	2.40	59	eP	24	22.11	0.3
			e	21	35.60			RJF		51.49	302	eP	23	08.20	-0.8		PDB	2.45	245	eP	24	22.03	-0.6
SOD	39.24	335	iP	21	36.20	4.9X			Z	21s		0.09um			3.8Msz		RND	2.56	10	eP	24	25.44	1.1
NJ2	39.36	83	Pd	21	31.00	-1.8		LDF		51.67	307	eP	23	09.20	-1.0		TRF	2.58	355	eP	24	26.49	1.9
Z	16s		0.30um			4.2MszX		FLN		51.85	307	eP	23	10.30	-1.3		SDG	2.61	49	eP	24	25.62	0.7
SRO	39.66	303	eP	21	37.30	2.2				0.6s		5.40nm			4.8mb		CDD	2.76	226	eP	24	26.50	-0.5
			e	22	13.50				Z	21s		0.35um			4.4Msz		SVW	2.85	277	ePd	24	27.70	-0.5
KEV	40.29	338	eP	21	48.00	8.1X		EKA		51.91	316	P	23	12.00	0.0		PAX	2.92	43	eP	24	30.30	0.9
SNY	40.32	66	Pc	21	44.60	4.0X				1.1s		11.70nm			4.8mb		GLB	2.95	77	eP	24	28.30	-1.5
Z	15s		1.10um			4.8MszX		LFF		52.12	302	eP	23	12.70	-1.0		TTA	3.58	308	eP	24	33.40	-5.3
N	16s		1.40um							0.9s		18.00nm			5.1mb		BALM	3.64	84	eP	24	37.28	-2.3
			eS	27	40.00			GRR		52.19	307	eP	23	13.00	-1.2			47 obs. ossociated					
ZST	40.44	304	eP	21	42.00	0.5		MFF		52.23	304	eP	23	13.40	-1.1								
			e	22	20.90					0.9s		9.85nm			4.8mb		• JAN 26, 1991 08h 56m 02.08± 0.41s						
			e	23	18.10			TOL		57.21	298	eP	23	52.00	1.2		15.037 S ±13.6km 173.172 W ±12.0km						
UPP	40.65	322	iP	21	42.40	-0.6		BCAO		57.89	249	iPd	23	56.00	0.1		DEPTH = 33.0km (normal)						
KSP	40.82	308	eP	21	44.50	0.0				0.8s		11.00nm			5.0mb		4.8mb (12 obs.) 5.3Msz (1 obs.)						
			e	23	11.50							ic	24	28.40			TONGA ISLANDS					(173)	
CN2	41.32	63	eP	21	50.80	2.1		KRI		66.32	224	eP	24	53.10	0.9								
Z	20s		1.50um			4.9Msz		MBC		66.77	3	eP	24	52.00	-2.2		AFI	1.76	50	P	56	27.20	-3.5X
			pP	21	56.50	19kmX				1.0s		41.00nm			5.4mb		DZM	20.54	247	iPc	00	39.90	-0.7
			eS	28	00.00			INK		73.34	9	eP	25	32.50	-1.7		LTZ	30.35	201	eP	02	07.70	-5.4X
PTJ	41.47	300	eP	21	49.40	-0.7				0.9s		33.00nm			5.3mb		WRA	50.14	256	P	04	52.00	-4.7X
SSE	41.57	83	eP	21	52.00	1.1		FRB		74.54	343	eP	25	40.00	-1.2			0.5s		7.00nm			4.9mb	
Z	18s		0.60um			4.5Msz		KIC		74.86	267	P	25	44.70	0.9		TNP	74.42	43	eP	07	39.00	-0.1
N	17s		1.40um					TIC		74.91	267	P	25	44.90	0.7			1.0s		5.50nm			4.5mb	
			pP	21	57.20	18kmX		LIC		75.16	267	P	25	46.60	1.0		SPA	75.06	180	iPc	07	41.00	-1.3
			sP	22	06.30			YKA		80.68	3	eP	26	15.50	0.5			1.0s		10.00nm			4.8mb	
			eS	28	10.00					0.7s		10.40nm			4.9mb		PDB	76.13	10	P	07	46.80	-1.3
PRU	41.98	306	eP	21	55.50	1.4		WRA		82.26	122	P	26	22.00	-2.0		SLKM	77.51	11	eP	07	55.10	-0.7
			e	23	43.00					0.8s		7.30nm			4.7mb		MSU	78.02	45	P	07	59.80	0.4
VBY	42.02	300	e(P)	22	03.00	8.6X		FFC		88.38	356	eP	26	54.50	0.6		PMR	78.72	11	ePd	08	02.10	-0.3
BRG	42.30	308	iP	21	57.00	0.3				1.0s		12.00nm			5.1mb			1.1s		11.60nm			4.8mb	
	1.2s		21.00nm			4.8mb				S.D. = 1.2 on 82 of 98 obs.							TTA	78.87	8	eP	08	03.70	0.4
			e	22	21.00													1.1s		14.80nm			4.9mb	
			e	23	42.00			& JAN 26, 1991 08h 23m 44.20s									PNT	79.59	32	eP	08	07.00	-0.4
IPM	42.42	132	ePc	22	01.30	3.3X		60.890 N 149.797 W										0.7s		5.00nm			4.6mb	
LJU	42.44	301	e(P)	22	00.00	2.1		DEPTH = 43.6km									TOA	79.78	13	ePd	08	08.90	0.6
HFS	42.65	322	eP	21	57.80	-1.6		KENAI PENINSULA, ALASKA (14)										1.1s		44.50nm			5.4mb	
	0.5s		10.80nm			4.9mb		<AEIC>.									PV09	80.09	46	eP	08	11.00	0.3
Z	17s		0.67um			4.6MszX											ALQ	80.40	50	eP	08	12.00	-0.3
			LR	39	09.00			PMS		0.37	18	iP	23	53.16	-0.5			1.0s		5.75nm			4.5mb	
KHC	42.69	305	P	22	02.20	2.3		SLKM		0.44	209	iP	23	54.00	-0.4		RND	80.44	11	eP	08	11.00	-0.8
CLL	42.87	308	e(P)	22	03.00	1.7		NKA		0.72	259	iP	23	59.32	1.3		CN2	80.95	320	P	08	14.60	-0.1
			e	23	48.00			SUA		0.74	322	eP	23	57.97	-0.5			Z	26s		1.00um			5.1MszX
VOY	42.88	301	e(P)	22	03.40	1.8						eS	24	08.46						pP	08	23.00	27kmX
MOX	43.80	308	eP	22	10.00	1.1		PWA		0.76	357	eP	23	58.22	-0.4					eS	18	22.00	
NB2	43.95	323	P	22	07.70	-2.3						eS	24	09.34			BW06	81.86	42	P	08	19.70	-0.1
	0.7s		15.80nm			4.9mb		PLRM		0.77	24	iP	23	58.12	-0.7			1.2s		9.13nm			4.7mb	
GRF	44.15	306	eP	22	13.10	1.3		PMR		0.77	24	iPc	23	58.70	-0.1		FBA	82.00	11	ePd	08	19.80	0.0
Z	18s		0.40um			4.4Msz		SEW		0.81	168	eP	23	58.41	-0.8			1.0s		24.90nm			5.2mb	
			e	22	22.30			KNK		0.84	51	eP	23	59.11	-0.6		GOL	83.25	46	P	08	27.70	0.6
			e	22	33.00			GHO		0.98	25	iP	24	01.35	-0.4			1.2s		15.37nm			5.0mb	
SQTA	44.51	303	eP	22	16.00	1.1		NNL		1.13	222	iP	24	04.38	0.6		SES	84.78	35	eP	08	34.00	-0.3
	1.0s		4.50nm			4.2mb		SPU		1.14	286	iP	24	03.64	-0.3		BJI	85.38	313	eP	08	38.00	0.6
			i	22	26.10							iS	24	18.96				Z	24s		0.32um			4.6MszX
OSS	45.32	302	ePd	22	21.10	-0.3		KNIM		1.15	117	eP	24	02.74	-1.4					eS	19	00.00	

RSSD 86.04 42 P 08 41.10 0.1
MEO 86.28 53 e(P) 08 42.00 -0.1
TIY 87.19 310 eP 08 46.60 0.1
INK 87.87 14 eP 08 48.50 -0.5
YKA 89.68 23 eP 08 56.00 -1.7
0.9s 2.10nm 4.4mb
KSP 143.48 350 ePKP 15 35.00 0.1
SPC 144.21 345 ePKP 15 33.10 -3.4X
e 44 29.00
PRU 144.58 351 ePKP 15 35.50 -1.3
ABH 145.24 359 ePKP 15 37.05 -1.0
GRF 145.25 355 ePKPc 15 37.70 -0.3
e 15 46.30
e 15 56.40
KHC 145.55 352 iPKPc 15 38.50 -0.1
1.0s 7.00nm
MLR 145.63 336 ePKP 15 47.00 8.0X
ZST 145.86 348 ePKP 15 39.90 0.8
SRO 145.96 346 ePKP 15 39.80 0.6
LPF 146.46 10 ePKP 15 41.60 1.6
1.2s 20.85nm
CDF 146.72 359 ePKP 15 41.80 1.2
0.9s 9.85nm
HAU 147.13 1 ePKP 15 42.80 1.7
0.9s 8.20nm
BSF 147.30 0 ePKP 15 43.20 1.7
LOR 147.77 4 ePKP 15 44.60 2.4X
Z 20s 0.47um 5.3Msz
SSF 147.95 4 ePKP 15 45.30 2.8X
1.0s 8.00nm
LBF 148.06 4 ePKP 15 45.40 2.7X
1.1s 8.55nm
AVF 148.21 5 ePKP 15 45.40 2.5X
BGF 148.40 5 ePKP 15 46.20 3.0X
1.0s 10.00nm
LJU 148.42 350 e(PKP) 15 45.50 2.2X
VOY 148.54 351 e(PKP) 15 46.00 2.4X
MAF 148.71 6 ePKP 15 47.20 3.5X
1.0s 9.00nm
VBY 148.81 349 e(PKP) 15 44.50 0.6
SKO 150.34 338 ePKP 15 50.00 3.7X
OHR 151.33 338 ePKP 15 51.50 3.6X
S.D. = 0.9 on 36 of 51 obs.

& JAN 26, 1991 09h 23m 17.90s
38.060 N 118.892 W
DEPTH = 12.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 3.2 (BRK).

BONR 0.48 102 iP 23 26.50 -1.3
CMB 1.18 269 iPc 23 39.20 -0.6
iS 23 53.20
FRI 1.25 212 iPc 23 40.70 -0.2
iS 23 56.30
TNP 1.32 89 iPc 23 41.60 -0.7
LLA 2.18 229 iPd 23 56.50 2.0
iS 24 25.40
ARN 2.21 252 eP 23 56.00 1.0
MHC 2.30 253 eP 23 57.50 1.2
PRI 2.38 217 eP 24 00.90 3.4
SAO 2.41 238 eP 23 59.90 2.2
ORV 2.53 307 iPd 24 00.40 1.0
iS 24 35.70
PHAM 2.53 209 eP 24 01.00 1.6
BKS 2.65 267 iPd 24 03.00 1.8
BRK 2.67 267 eP 24 03.50 2.1
13 obs. associated

• JAN 26, 1991 09h 24m 57.37± 0.51s
15.275 S ±15.5km 172.942 W ±22.1km
DEPTH = 33.0km (normal)
4.9mb (7 obs.) 4.9Msz (1 obs.)
SAMOA ISLANDS REGION (169)

AFI 1.76 40 P 25 24.00 -2.2
eS 25 41.00
DZM 20.65 248 iPc 29 36.00 -1.1
NOZ 24.57 197 P 30 15.90 0.4
MNG 27.19 200 P 30 37.40 -2.5
LTZ 30.21 202 P 31 02.20 -4.9X
WRA 50.30 257 P 33 48.00 -5.2X
0.4s 2.70nm 4.6mb
SPA 74.82 180 iPc 36 37.50 1.3
0.9s 22.73nm 5.2mb
PMR 78.91 11 ePd 36 58.00 -0.7
1.1s 15.90nm 4.9mb
PNT 79.67 32 eP 37 04.00 0.9
TOA 79.97 12 eP 37 05.60 1.1
1.0s 47.40nm 5.4mb
ALQ 80.38 50 eP 37 08.00 0.5
1.0s 5.00nm 4.5mb
FBA 82.19 11 ePd 37 16.00 0.0
1.0s 22.90nm 5.2mb
SES 84.85 35 eP 37 30.00 0.1
INK 88.04 14 eP 37 45.00 -0.1
YKA 89.81 23 eP 37 52.50 -1.1
1.1s 2.10nm 4.3mb
GRF 145.51 355 ePKP 44 34.40 0.7
e 44 46.60
e 44 53.70
KHC 145.82 352 iPKPc 44 34.70 0.4
1.1s 7.00nm
ZST 146.14 348 ePKP 44 35.50 0.7
CDF 146.96 360 ePKP 44 38.00 1.8
1.0s 8.00nm
HAU 147.36 1 ePKP 44 39.10 2.3X
LOR 147.99 4 ePKP 44 40.70 2.9X
1.0s 6.00nm
Z 19s 0.17um 4.9Msz
SSF 148.17 5 ePKP 44 41.50 3.4X
1.1s 9.75nm
LBF 148.28 4 ePKP 44 41.70 3.4X
1.1s 6.10nm
OHR 151.63 338 ePKP 44 49.00 5.4X
S.D. = 1.3 on 17 of 24 obs.

% JAN 26, 1991 09h 40m 25.43± 0.98s
39.176 N ± 8.2km 27.643 E ± 9.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.8 (ISK).

IZM 0.83 201 ePg 40 41.20 -0.4
iSg 40 53.20
DST 0.88 60 ePg 40 43.00 0.7
eSg 40 58.00
EDC 1.18 8 ePn 40 48.00 0.5
BNT 1.20 10 ePn 40 46.00 -1.7
KCT 1.20 27 ePn 40 48.00 0.1
EZN 1.21 303 ePn 40 48.60 0.7
S.D. = 1.2 on 6 of 6 obs.

% JAN 26, 1991 10h 36m 46.65± 0.73s
37.688 N ± 7.2km 15.044 E ± 5.9km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO 0.37 311 Pd 36 54.40 0.1
eSg 36 59.80
ATN 0.58 35 Pd 36 58.90 0.6
eSg 37 08.30
MEU 0.59 189 P 36 58.10 -0.6
eSg 37 07.40
GIB 0.86 291 P 37 02.80 -0.5
eSg 37 16.30
SOI 0.89 64 P 37 04.60 1.0
eSg 37 18.20
MCT 1.12 268 P 37 08.20 0.4
FAI 1.16 250 Pc 37 09.00 0.6
eSg 37 24.00
BRT 3.60 27 P 37 42.00 -1.6
S.D. = 1.0 on 8 of 8 obs.

% JAN 26, 1991 11h 04m 44.67± 0.81s
37.659 N ± 7.2km 15.021 E ± 6.7km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO 0.37 317 P 04 52.20 -0.2
eSg 04 57.20
MEU 0.56 187 P 04 56.00 -0.1
eSg 05 05.60
ATN 0.61 35 P 04 56.80 -0.2
eSg 05 06.20
GIB 0.85 293 P 05 01.50 0.3
eSg 05 12.80
SOI 0.92 63 P 05 02.40 0.2
eSg 05 16.70
S.D. = 0.4 on 5 of 5 obs.

• JAN 26, 1991 11h 15m 53.62± 0.66s
6.041 S ± 8.2km 127.625 E ±21.9km
DEPTH = 404.7 ± 13.0 km
4.5mb (4 obs.)
BANDA SEA (280)

AAI 2.41 14 ePc 16 53.30 0.2
eS 17 43.50
MTN 7.59 153 iPd 17 44.70 -0.2
0.3s 278.00nm 5.9mb X
eS 19 03.00
KNA 9.71 173 iPd 18 08.80 -0.5
MBL 16.82 206 eP 19 26.20 -0.6
WARB 20.05 183 eP 20 00.30 1.5
CHG 37.54 312 eP 22 34.10 1.5
MAT 43.50 12 iPc 23 20.10 -0.6
0.9s 15.13nm 4.3mb
GUN 52.55 312 P 24 29.70 -0.5
PKI 52.72 311 P 24 31.60 0.3
0.6s 28.00nm 4.8mb
KKN 52.93 312 P 24 32.80 0.1
0.6s 18.00nm 4.6mb
DMN 52.97 311 P 24 33.20 0.2
GBA 53.51 292 Pd 24 35.30 -1.4
0.6s 3.80nm 3.9mb
GKN 53.53 311 P 24 37.00 0.1
S.D. = 0.9 on 13 of 13 obs.

• JAN 26, 1991 12h 12m 41.09± 0.71s
0.026 S ± 7.9km 123.584 E ± 9.6km
DEPTH = 170.2 ± 9.1 km
4.7mb (4 obs.)
MINAHASSA PENINSULA (265)

MNI 1.92 41 iPd 13 16.40 -0.6
eS 13 45.00
AAI 5.87 128 ePd 14 07.20 0.1
eS 15 11.10
MKS 6.59 218 iPc 14 17.50 0.8
iS 15 28.50
TSM 6.94 308 ePd 14 20.50 -0.8
0.2s 254.70nm 6.2mb X
CGP 8.50 7 eP 14 48.00 6.0X
PPR 10.87 334 eP 15 15.00 1.9
PGP 13.69 349 eP 15 57.00 7.6X
MBL 21.32 190 eP 17 15.00 -0.6
CHG 30.59 309 eP 18 41.00 -0.2
0.9s 17.86nm 4.8mb
MAT 38.83 19 eP 19 50.00 -1.1
1.0s 16.00nm 4.7mb
LZH 40.35 335 eP 20 04.50 0.8
1.6s 29.00nm 4.7mb
pP 20 46.00 193kmX
GUN 45.58 311 P 20 46.00 -0.3
PKI 45.76 310 P 20 47.00 -0.8
KKN 45.97 310 P 20 48.80 -0.5
DMN 46.01 310 P 20 49.80 0.1
GKN 46.57 310 P 20 53.40 -0.6
YKA 104.19 24 ePdiff 26 28.20 1.9
0.6s 0.30nm 4.4mb
S.D. = 1.1 on 15 of 17 obs.

? JAN 26, 1991 13h 12m 23.41± 0.99s
37.644 N ± 7.9km 15.031 E ± 8.6km
DEPTH = 5.0km (geophysicist)
SICILY (398)

MNO 0.39 317 P 12 30.60 -0.7
eSg 12 37.50
MEU 0.55 188 P 12 34.20 -0.2
eSg 12 43.50
GIB 0.87 294 P 12 41.40 0.8
eSg 12 54.00
SOI 0.92 62 P 12 41.50 0.1
eSg 12 54.00
S.D. = 1.1 on 4 of 4 obs.

% JAN 26, 1991 13h 15m 16.84± 0.83s
37.649 N ± 7.2km 15.026 E ± 6.9km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO 0.38 317 P 15 24.30 -0.5
eSg 15 30.50
MEU 0.55 188 P 15 28.00 -0.1
eSg 15 37.30
ATN 0.62 34 P 15 29.30 0.0
eSg 15 37.50
GIB 0.86 294 P 15 34.00 0.5
eSg 15 46.00

26d 13h

SOI	0.92	62	P	15	34.40	0.1
			eSg	15	47.30	
S.D. = 0.5 on 5 of 5 obs.						

& JAN 26, 1991 14h 00m 57.60s
61.658 N 150.141 W
DEPTH = 40.3km
SOUTHERN ALASKA (2)
<AEIC>.

PWA	0.13	93	eP	01	04.65	0.3
			eS	01	10.75	
SUA	0.35	236	iP	01	06.61	0.0
			eS	01	14.38	
PLRM	0.49	97	iP	01	07.26	-0.9
			eS	01	15.74	
PMS	0.50	146	iP	01	07.87	-0.5
			iS	01	17.00	
GHO	0.59	78	eP	01	08.89	-0.8
			eS	01	18.79	
CUT	0.75	355	iP	01	10.87	-0.9
SPU	1.04	243	eP	01	15.11	-0.8
			eS	01	28.71	
CRP	1.04	249	eP	01	15.84	-0.3
NKA	1.06	211	eP	01	17.21	1.0
BGL	1.15	251	eP	01	17.09	-0.5
CKL	1.15	247	eP	01	16.77	-0.9
SLKM	1.15	182	eP	01	16.24	-1.3
			eS	01	32.11	
HUR	1.35	10	eP	01	19.75	-0.5
			eS	01	36.49	
RDT	1.55	226	eP	01	22.16	-1.0
			eS	01	41.70	
SEW	1.60	167	eP	01	24.28	0.5
GLI	1.67	117	eP	01	22.95	-1.9
			eS	01	43.49	
REF	1.71	228	eP	01	24.71	-0.9
RDN	1.72	229	eP	01	24.45	-1.2
NNL	1.72	200	eP	01	25.58	0.1
NCT	1.74	232	eP	01	25.36	-0.6
RS2	1.75	228	eP	01	25.63	-0.5
RSO	1.75	228	eP	01	25.31	-0.8
KNIM	1.76	137	eP	01	23.46	-2.7
TRF	1.80	358	eP	01	25.93	-0.9
VZW	1.83	108	eP	01	25.50	-1.7
RND	1.85	18	eP	01	26.60	-0.9
VLZ	1.91	104	eP	01	26.25	-2.0
TOA	1.93	75	eP	01	28.79	0.1
KLU	2.03	93	eP	01	27.93	-2.1
MTU	2.07	143	eP	01	29.64	-1.0
HIN	2.18	124	eP	01	30.20	-2.0
TZL	2.27	78	eP	01	32.51	-1.0
CVA	2.41	116	eP	01	35.06	-0.3
SGAM	2.66	114	eP	01	39.76	0.7
RAGM	2.95	113	eP	01	43.89	0.8
GLB	3.04	91	eP	01	43.38	-1.0
HMT	3.16	112	eP	01	43.58	-2.5
37 obs. assocated						

JAN 26, 1991 14h 33m 19.32± 0.57s
40.064 N ± 5.1km 20.621 E ± 6.5km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
MD 3.3 (ATH).

IGT	0.58	203	ePd	33	30.00	-1.0
KEK	0.72	241	ePg	33	33.50	0.0
KZN	0.91	74	ePg	33	35.50	-1.4
FNA	0.92	38	ePc	33	36.24	-0.7
OHR	1.05	7	iPg	33	38.40	-0.8
0.9s 193.00nm						
			iSg	33	55.10	
			Lg	34	01.80	
LIT	1.43	88	ePc	33	45.57	0.2
EVR	1.47	141	ePg	33	46.00	0.1
GRG	1.62	56	ePd	33	47.92	-0.2
THE	1.88	72	iPc	33	44.24	-7.5X
VLS	1.88	181	ePb	33	52.20	0.3
VAY	1.94	49	ePn	33	52.40	-0.3
SKO	2.00	18	ePn	33	55.60	2.0
			iSn	34	23.00	
KNT	2.05	57	ePd	33	54.96	0.7
PLG	2.18	81	ePn	33	56.50	0.3
PAIG	2.35	92	ePd	33	43.46	-15.1X
BRT	2.73	288	P	34	13.00	9.0X
VLI	3.80	151	ePn	34	20.00	0.8
SOI	4.07	242	P	34	26.50	3.6X
			eSn	35	09.00	
GBZT	6.77	81	ePg	35	08.50	7.3X
			iSg	35	09.50	
S.D. = 0.9 on 14 of 19 obs.						

% JAN 26, 1991 15h 37m 53.44± 0.81s
40.560 N ±13.0km 29.194 E ± 7.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.8 (ISK).

YLV	0.14	87	iPg	37	56.00	-0.7
			iSg	37	59.50	
HRT	0.44	54	iPg	38	03.10	0.6
BNT	0.99	259	iPn	38	12.50	0.2
EDC	1.04	259	ePn	38	12.50	-0.5
DST	1.05	205	iPn	38	13.70	0.5
S.D. = 0.8 on 5 of 5 obs.						

* JAN 26, 1991 16h 14m 16.44± 3.48s
51.278 N ±25.8km 15.981 E ±18.8km
DEPTH = 10.0km (geophysicist)
POLAND (548)
ML 3.1 (GRF).

KSP	0.48	155	iP	14	26.00	-0.1
			iS	14	34.70	
BRG	1.35	253	iPg	14	41.00	-0.2
			iSg	15	02.00	
PRU	1.58	216	ePg	14	46.00	1.4
			e	14	50.50	
			eSn	15	03.00	
			Sg	15	10.00	
CLL	1.87	272	ePg	14	49.00	0.3
			iSg	15	15.10	
KHC	2.65	217	ePn	14	59.10	-0.8
			Pg	15	07.00	
			eSn	15	34.20	
			Sg	15	48.30	
MOX	2.83	259	ePg	15	09.00	6.5X
			eSg	15	47.00	
WET	2.92	224	iPnd	15	03.50	-0.3
GRF	3.43	244	e(Pn)	15	10.50	-0.5
			e(Pg)	15	21.50	
			e(Sn)	15	53.60	
			eSg	16	09.40	
S.D. = 0.9 on 7 of 8 obs.						

? JAN 26, 1991 16h 47m 13.05± 2.28s
16.026 S ±61.1km 174.102 W ±37.6km
DEPTH = 133.8 ± 14.6 km
4.3mb (4 obs.)
TONGA ISLANDS (173)

AFI	3.08	47	P	48	01.50	0.0
			eS	48	39.00	
DZM	19.34	249	iPc	51	31.00	0.4
WRA	49.04	257	P	55	48.00	-0.6
0.7s 1.30nm 3.8mb						
TNP	75.75	43	iP	58	45.00	-1.0
0.8s 5.15nm 4.3mb						
PMR	79.87	12	P	59	20.50	12.8X
PV09	81.42	46	P	59	17.00	0.2
RND	81.58	11	P	59	17.30	0.5
NEW	81.60	34	e(P)	59	16.00	-1.2
FBA	83.13	11	P	59	25.40	0.7
0.9s 14.58nm 4.8mb						
BW06	83.19	42	eP	59	25.70	-0.1
GOL	84.57	46	P	59	35.00	2.2
0.8s 3.27nm 4.2mb						
SES	86.10	35	eP	59	39.00	-0.9
S.D. = 1.1 on 11 of 12 obs.						

JAN 26, 1991 17h 20m 49.36± 0.24s
24.733 N ± 4.1km 97.001 E ± 3.5km
DEPTH = 33.0km (normol)
4.8mb (23 obs.) 4.2Msz (4 obs.)
BURMA-CHINA BORDER REGION (297)

KMI	5.22	85	Pnd	22	10.00	5
			Pg	22	27.00	
			Sg	23	29.50	
CHG	6.16	163	iPn	22	20.00	-0.5
			iPg	22	43.30	
			iSg	24	02.00	
LSA	7.18	315	P	22	36.00	0.8
Z 10s 1.46um						

BDT	7.68	166	ePg	22	41.00	-0.8
			eSg	22	46.50	
LOE	8.52	148	eP	22	53.00	-0.5
			ePg	23	22.50	
			eSg	25	08.60	
CD2	8.58	43	P	22	55.00	0.7
Z 12s 10.50um						
GYA	8.89	77	iPd	22	57.00	-1.7
1.2s 20.00nm 5.2mb						
Z 12s 4.90um 3.8Msz						
NST	9.48	161	eP	23	06.00	-0.7
			e	25	34.50	
GUN	10.47	290	P	23	19.80	-0.8
PKI	10.79	288	P	23	23.60	-1.4
PCT	10.83	157	ePn	23	26.00	0.9
			eSg	26	25.00	
KKN	10.95	289	P	23	25.60	-1.5
DMN	11.06	288	P	23	26.80	-1.8
GKN	11.55	289	P	23	33.40	-1.8
LZH	12.76	26	eP	23	48.50	-2.8X
1.5s 28.00nm 5.1mb						
Z 18s 1.36um 4.3Msz						
N 12s 1.36um						
E 12s 2.41um						
			PP	23	57.50	
			eS	26	10.00	
XAN	13.92	45	eP	24	04.60	-1.9
N 12s 1.60um						
E 10s 1.30um						
			S	26	40.00	
GTA	14.83	9	eP	24	16.40	-2.1
4.0s 590.00nm 5.3mb X						
Z 12s 4.10um 6.3Msz						
N 10s 3.20um						
E 10s 3.60um						
			pP	24	24.40	
WHN	16.42	66	eP	24	41.00	2.1
			pP	24	50.00	
NDI	18.11	287	eP	24	59.00	-1.0
0.7s 17.12nm 4.3mb						
			eS	28	21.00	
TIY	18.45	42	eP	25	03.70	-0.5
Z 18s 1.20um						
E 16s 1.40um						
			S	28	27.50	
HYB	18.68	251	iPd	25	09.00	1.9
1.0s 100.00nm 5.0mb						
BTO	19.21	31	eP	25	14.00	0.6
N 12s 1.70um						
E 11s 0.70um						
			eS	28	35.00	
HHC	20.16	34	P	25	25.60	1.9
N 13s 0.50um						
IPM	20.41	168	ePc	25	26.50	0.1
WMQ	20.51	340	P	25	27.40	0.1
Z 14s 0.60um 4.1MszX						
N 11s 0.80um						
NJ2	20.54	64	eP	25	27.00	-0.6
Z 11s 0.70um 4.3MszX						
N 12s 1.90um						
E 12s 0.80um						
TIA	20.73	52	eP	25	28.80	-0.8
N 13s 1.23um						
E 13s 1.90um						
GBA	21.51	243	P	25	39.30	1.7
BJI	22.18	42	eP	25	47.00	2.9X
1.7s 105.00nm 5.0mb						
Z 18s 0.76um 4.2Msz						
			eS	29	53.00	
SSE	22.27	68	eP	25	42.70	-2.4
Z 18s 0.90um 4.2Msz						
KOD	23.51	236	eP	26	00.50	2.8X
DL2	25.15	50	eP	26	14.00	1.0
4.0s 700.00nm 5.6mb X						
Z 16s 0.90um 4.4MszX						
QUE	27.17	288	eP	26	33.30	1.3
SNY	27.84	46	eP	26	37.40	-0.3
Z 17s 0.80um 4.4MszX						
N 16s 1.00um						
			eS	31	16.00	
CN2	30.02	44	eP	27	01.00	3.7X
Z 16s 1.70um 4.8MszX						
			pP	27	04.00	10kmX
MAIO	34.11	299	eP	27	35.00	1.7
SHI	39.68	287	eP	28	21.00	0.6
TAB	44.74	300	eP	29	04.00	2.4
WRA	57.38	137	P	30	36.00	-1.1

0.6s 10.80nm 5.1mb
VRI 59.20 310 eP 30 54.00 4.5X
MUN 59.30 161 eP 30 50.00 -0.3
MLR 59.78 310 iPc 31 09.00 15.3X
SOD 59.88 335 iP 30 53.80 -0.1
KEV 60.11 338 eP 30 46.00 -9.5X
CMP 60.43 309 iPc 30 54.00 -4.1X
NWAO 60.49 160 iPc 30 58.20 -0.2
0.6s 6.00nm 4.9mb
Z 20s 0.20um 4.3Msz
TNR 60.93 310 iPc 30 47.00 -14.4X
DRA 61.05 309 iPd 30 45.00 -17.2X
BMR 61.24 312 ePd 31 06.00 2.6X
BZS 62.78 310 iPc 31 03.00 -10.8X
UPP 63.65 326 iP 31 20.00 0.7
SRO 64.69 313 eP 31 22.70 -3.5X
ZST 65.42 314 eP 31 31.10 0.1
KSP 65.49 317 ePc 31 32.00 0.6
HFS 65.59 327 eP 31 31.50 -0.4
0.5s 2.20nm 4.5mb
NB2 66.67 328 P 31 38.00 -0.8
1.0s 6.00nm 4.6mb
PRU 66.75 316 P 31 39.50 0.1
BRG 66.95 317 iP 31 41.00 0.3
1.2s 17.00nm 5.0mb
CLL 67.44 317 e(P) 31 43.00 -0.8
KHC 67.53 315 P 31 45.40 0.9
LJU 67.57 312 e(P) 31 44.50 -0.2
WET 67.98 315 iPc 31 48.00 0.7
VOY 68.01 312 eP 31 47.00 -0.6
BHG 68.30 314 eP 31 49.90 0.6
MOX 68.44 317 eP 31 50.00 -0.1
CDF 71.75 315 eP 32 10.00 -0.4
BSF 72.23 315 eP 32 12.70 -0.6
LPG 72.96 313 eP 32 17.90 0.0
1.3s 14.45nm 4.8mb
LPL 72.97 313 eP 32 17.90 0.1
0.9s 9.85nm 4.8mb
LBF 74.31 315 eP 32 25.00 -0.4
1.3s 14.45nm 4.8mb
SMF 74.51 314 eP 32 26.40 -0.1
1.1s 9.75nm 4.7mb
SSF 74.59 315 eP 32 26.80 -0.1
1.1s 9.75nm 4.7mb
AVF 74.78 315 eP 32 28.10 0.1
1.1s 8.55nm 4.7mb
EKA 75.53 324 P 32 35.00 2.9X
1.1s 7.00nm 4.6mb
TCF 75.69 315 eP 32 33.60 0.3
1.3s 14.45nm 4.8mb
CAF 76.28 313 eP 32 37.30 0.7
RJF 76.50 314 eP 32 38.90 1.1
1.3s 21.65nm 5.0mb
Z 21s 0.08um 4.0Msz
MBC 76.78 8 eP 32 40.00 1.2
1.0s 9.00nm 4.7mb
BCAO 77.69 269 iPc 32 45.00 0.1
1.0s 10.00nm 4.8mb
FBA 77.81 23 eP 32 45.00 0.3
1.0s 9.00nm 4.8mb
INK 80.14 17 eP 32 57.90 0.7
YKA 89.49 14 eP 33 43.70 -0.5
1.0s 3.40nm 4.6mb
BAO 146.00 279 e(PKP)40 30.40 2.9X
VAO 147.06 265 e(PKP)40 32.00 3.1X
PPD 150.82 269 e(PKP)40 42.00 7.3X
SIV 157.70 289 (PKP) 40 37.00 -7.3X
i 41 17.00
LPB 163.85 298 PKP 40 50.00 -1.2
CNCB 163.90 296 PKP 40 52.00 0.6
S.D. = 1.1 on 70 of 88 obs.

? JAN 26, 1991 17h 34m 54.81± 1.35s
2.969 N ±20.4km 76.607 W ±25.3km
DEPTH = 110.0km (geophysicist)
COLOMBIA (103)
MD 3.1 (UVC).

SALC 0.09 272 iPd 35 11.16 -0.5
eS 35 24.00
HOOC 0.50 357 iPc 35 12.19 0.0
eS 35 25.90
DIAC 0.52 52 iPc 35 12.74 0.5
eS 35 26.70
ANCC 0.60 334 iPc 35 13.05 0.4
eS 35 27.30
CLMC 0.91 3 iPd 35 15.69 0.2
HOBC 1.45 19 iPc 35 21.02 -0.6
eS 35 41.30
S.D. = 0.6 on 6 of 6 obs.

& JAN 26, 1991 17h 38m 08.63s
41.872 N 112.587 W
DEPTH = 8.3km
UTAH (478)
<SLC-P>. ML 2.9 (SLC).

PTI 1.01 9 eP 38 27.80 -0.2
DUG 1.68 186 eP 38 38.30 -0.3
DAU 1.77 145 eP 38 40.20 0.2
BW06 2.42 67 eP 38 50.50 1.1
4 obs. associated

JAN 26, 1991 19h 17m 32.08± 0.99s
61.881 N ± 4.7km 159.321 W ± 8.8km
DEPTH = 33.0km (normal)
4.1mb (3 obs.)
SOUTHERN ALASKA (2)
Felt (V) at Aniak.

TTA 1.87 54 iPc 18 02.70 0.4
SVW 1.94 112 eP 18 04.23 0.9
PDB 3.27 128 iP 18 21.96 -0.3
eS 19 01.45
NCT 3.36 110 eP 18 23.41 -0.2
eS 19 05.19
BGL 3.37 98 eP 18 24.12 0.3
CKL 3.41 99 eP 18 24.54 0.2
RDN 3.46 110 eP 18 24.78 -0.3
CRP 3.48 97 eP 18 26.76 1.4
RS2 3.48 111 eP 18 25.06 -0.4
RSO 3.49 111 eP 18 25.21 -0.3
REF 3.50 111 eP 18 25.53 -0.1
RED 3.50 112 eP 18 24.77 -0.8
SPU 3.55 98 iP 18 26.44 0.2
RDT 3.59 108 eP 18 26.48 -0.4
MCNL 3.66 135 eP 18 26.97 -0.7
AUI 3.87 129 eP 18 30.29 -0.4
AUE 3.87 128 eP 18 31.18 0.5
NKA 4.06 103 eP 18 36.23 2.8X
CDD 4.09 134 eP 18 32.98 -0.8
CUT 4.28 79 eP 18 35.00 -1.5
NNL 4.32 112 eP 18 38.80 1.6
TRF 4.45 65 eP 18 40.44 1.2
PWA 4.49 89 eP 18 39.35 -0.2
SLKM 4.61 103 eP 18 40.75 -0.6
CNPM 4.62 117 eP 18 41.77 0.4
BRLK 4.64 113 eP 18 40.91 -0.8
PMS 4.71 93 eP 18 43.82 1.1
SYI 4.76 130 eP 18 43.37 0.1
PMR 4.85 89 iPc 18 46.50 1.9
GHO 4.93 87 eP 18 47.23 1.4
BWN 5.04 59 eP 18 47.70 0.4
RND 5.07 68 eP 18 47.66 -0.1
RDS 5.83 55 eP 18 56.60 -1.9
FBA 6.00 55 ePc 18 59.00 -1.8
TOA 6.20 82 eP 19 06.50 2.8X
KLU 6.39 88 P 19 05.40 -1.0
SDN 6.59 186 eP 19 09.10 0.0
INK 12.55 48 P 20 31.00 0.1
1.2s 1.40nm 3.9mb
MBC 19.62 27 eP 22 04.50 4.4X
YKA 20.56 68 eP 22 09.50 -0.6
0.9s 2.60nm 3.6mb
HFS 58.19 4 eP 27 25.70 1.1
1.3s 17.00nm 5.0mb
KHC 69.19 5 eP 28 41.50 4.6X
S.D. = 0.9 on 38 of 42 obs.

? JAN 26, 1991 19h 53m 09.97± 6.91s
42.647 N ±21.2km 13.534 E ±53.2km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

MNS 0.68 248 Pd 53 23.50 0.0
eSg 53 32.60
ASS 0.77 304 P 53 25.00 0.0
eSg 53 35.80
ARV 0.96 333 P 53 28.00 -0.2
eSg 53 42.00
SFI 1.77 317 P 53 41.00 0.2
eSg 54 04.00
S.D. = 0.3 on 4 of 4 obs.

% JAN 26, 1991 20h 01m 02.12± 1.26s
42.695 N ± 7.2km 13.470 E ±13.6km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

AQU 0.34 188 P 01 09.70 0.4
eSg 01 15.20
MNS 0.66 242 P 01 15.00 -0.3
eSg 01 24.10
ASS 0.70 303 P 01 16.20 0.2
eSg 01 26.00
ARV 0.89 334 P 01 19.20 0.0
eSg 01 33.60
SDI 1.02 165 P 01 21.20 -0.3
S.D. = 0.4 on 5 of 5 obs.

• JAN 26, 1991 20h 48m 46.10± 1.96s
7.108 S ±10.7km 155.430 E ±15.0km
DEPTH = 92.7 ± 14.8 km
4.5mb (4 obs.)
SOLOMON ISLANDS (193)

RAB 4.35 312 e(P) 49 51.00 -0.2
iS 50 52.50
RMQ 20.29 197 eP 53 17.00 0.2
WRA 24.11 236 P 54 04.00 9.5X
0.7s 6.20nm 4.1mb
CHG 61.34 296 eP 58 54.80 0.0
CHTO 61.34 296 eP 58 54.80 0.1
0.8s 3.66nm 4.5mb
GUN 75.55 301 P 00 23.50 0.4
0.6s 17.00nm 5.1mb
PKI 75.85 301 P 00 24.40 -0.4
KKN 76.02 301 P 00 25.80 0.2
DMN 76.12 301 P 00 26.80 0.6
GKN 76.63 301 P 00 28.80 -0.1
INK 89.67 21 eP 01 35.00 0.5
MBC 95.71 14 eP 02 02.50 0.3
YKA 96.23 28 eP 02 05.00 0.2
0.6s 0.80nm 4.4mb
APO 119.39 339 ePKP 07 25.00 -0.9
0.4s 1.80nm
NB2 119.95 341 PKP 07 26.20 -0.8
0.8s 1.30nm
S.D. = 0.5 on 14 of 15 obs.

& JAN 26, 1991 20h 50m 03.60s
38.058 N 118.892 W
DEPTH = 10.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 3.0 (BRK).

BONR 0.48 102 iP 50 12.10 -1.3
CMB 1.18 269 iPc 50 24.70 -0.9
iS 50 41.50
FRI 1.25 212 iPc 50 26.23 -0.5
iS 50 42.08
TNP 1.32 88 iPc 50 27.10 -1.1
LLA 2.18 229 iPd 50 41.60 1.2
iS 51 10.80
ARN 2.21 252 eP 50 41.50 0.6
MHC 2.30 253 eP 50 43.60 1.4
PRI 2.38 217 eP 50 45.68 2.3
SAO 2.41 238 eP 50 45.41 1.7
ORV 2.53 307 iPd 50 47.66 2.3
iS 51 21.20
PRS 2.62 230 ePc 50 48.00 1.2
ZSP 2.66 269 e(P) 50 48.90 1.6
BRK 2.67 267 eP 50 49.50 2.1
13 obs. associated

? JAN 26, 1991 21h 05m 44.43± 3.55s
30.984 S ±47.6km 69.002 W ±22.1km
DEPTH = 130.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)

RTLL 0.57 127 iPc 06 04.50 0.3
RTCV 0.96 156 iPd 06 06.70 -0.6
JACH 2.17 218 iP 06 22.00 1.0
iS 06 49.00
FCH 2.58 205 eP 06 27.50 1.0
iS 06 59.00
PEL 2.58 213 iPc 06 26.20 -0.1
iS 06 55.50
ROCH 2.62 220 iPc 06 27.20 0.3
iS 06 57.70
PCH 2.92 206 eP 06 31.50 0.7

26d 21h

		iS	07 05.50		
LCCH	3.30	221 iPc	06 35.00	-0.7	
LNV	3.59	214 iPc	06 37.60	-1.9	
		iS	07 10.00		

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

JAN 26, 1991 21h 19m 06.39± 0.66s
41.610 N ± 7.9km 20.214 E ± 5.8km
DEPTH = 10.0km (geophysicist)
ALBANIA (391)
ML 2.9 (TTG).

OHR	0.66	138 iPg	19 19.50	-0.2	
	0.7s	123.00nm			
		iSg	19 30.40		
		Lg	19 36.20		
ULC	0.80	296 iPgc	19 21.42	-0.6	
		iSg	19 33.25		
SKO	0.98	68 iPg	19 25.20	0.1	
	0.3s	132.00nm			
		iSg	19 37.20		
		i	19 37.40		
		Lg	19 40.00		
PVY	1.00	350 iPgd	19 24.73	-0.7	
		iSg	19 38.98		
TTG	1.08	319 iPgc	19 25.62	-1.1	
		iSg	19 41.93		
BDV	1.23	303 iPgd	19 29.15	-0.2	
		iSg	19 47.97		
IVA	1.28	350 iPgc	19 30.40	0.2	
		iSg	19 48.33		
NKY	1.50	323 iPgc	19 34.53	1.0	
		iSg	19 56.63		
HCY	1.53	304 iPgd	19 34.13	0.4	
		iSg	19 56.32		
BRY	1.79	317 iPnc	19 38.77	1.1	
		iSg	20 04.22		
VAY	1.79	98 ePn	19 37.50	-0.1	
PLE	1.82	341 iPnc	19 40.43	2.3X	
		iSn	20 03.65		
HVAR	3.20	301 ePn	20 02.70	5.0X	

S.D. = 0.8 on 11 of 13 obs.

JAN 26, 1991 21h 23m 16.38± 0.68s
30.496 S ± 6.0km 177.495 W ± 7.7km
DEPTH = 43.4 ± 6.3 km
5.6mb (8 obs.) 4.6Msz (1 obs.)
KERMADEC ISLANDS (178)
Felt strongly on Raoul Island.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 24C
Centroid Location:
Origin Time 21:23:26.3 0.4
Lat 29.68S 0.06 Lon 177.92W 0.05
Dep 71.5 5.5 Half-duration 1.7
Moment Tensor; Scale 10**17 Nm
Mrr=-0.39 0.04 Mtt= 0.21 0.08
Mff= 0.18 0.07 Mrt=-0.53 0.05
Mrf= 1.14 0.05 Mtf=-0.38 0.05
Principal Axes:

	Val=	Plg=35	Azm=235
T	1.41		
N	-0.10	11	333
P	-1.31	53	77

Best Double Couple:Mo=1.4**10**17
NP1:Strike=285 Dip=14 Slip=-138
NP2: 154 81 -79

RAO	1.29	343 P	23 39.00	0.7	
HBZ	7.90	205 eP	25 12.40	1.0	
	0.3s	53.00nm	5.9mb		
		eS	26 43.40		
PUZ	8.33	204 P	25 18.10	0.6	
		eS	26 53.00		
NOZ	8.90	203 eP	25 25.90	0.6	
TAZ	9.17	211 eP	25 30.60	1.6	
WLZ	9.30	216 eP	25 34.00	3.2X	
WHH	9.72	209 eP	25 35.60	-1.1	
NGZ	10.35	211 eP	25 44.50	-0.9	
PGZ	11.30	205 eP	25 54.40	-3.7X	
	0.4s	176.00nm	6.5mb		
MNG	11.60	208 eP	25 58.40	-3.8X	
	0.4s	87.00nm	6.2mb		
		eS	28 05.90		
KIW	12.04	209 eP	26 03.30	-4.8X	
MTW	12.06	206 eP	26 00.20	-6.1X	
		eS	27 16.70		
CAW	12.18	208 eP	26 04.50	-5.5X	
WEL	12.45	208 eP	26 16.00	2.4	
		S	28 26.00		
TCW	12.60	210 eP	26 09.30	-6.2X	
		S	28 29.70		
VUN	12.97	343 eP	26 22.30	1.8	
THZ	13.65	212 eP	26 25.70	-3.7X	
KHZ	13.90	209 eP	26 27.00	-5.6X	
	0.2s	28.00nm	5.7mb		
		S	28 59.20		
LTZ	14.74	211 eP	26 39.40	-4.3X	
		eS	29 17.60		
MOZ	15.33	208 eP	26 45.80	-5.5X	
		eS	29 29.40		
DZM	16.66	296 iPc	27 09.00	0.6	
AFI	17.33	19 eP	27 09.00	-7.8X	
		eS	30 05.00		
MHZ	17.87	212 eP	27 20.30	-3.1X	
MMCZ	17.90	212 eP	27 20.80	-2.9X	
MSZ	18.23	215 eP	27 28.60	0.9	
COD	26.33	262 eP	28 53.00	2.9X	
RMO	29.86	269 iPd	29 21.60	-0.5	
TOO	31.33	247 eP	29 36.00	1.1	
CMS	31.37	259 eP	29 35.00	-0.2	
CTA	34.24	279 iPc	29 58.90	-1.5	
	1.0s	39.00nm	5.3mb		
		iS	35 19.00		
ADE	36.89	251 eP	30 23.50	0.8	
WRA	44.53	272 P	31 22.00	-3.9X	
	0.3s	22.70nm	5.5mb		
KLB	54.73	251 eP	32 41.00	-2.8	
	0.4s	3.00nm	4.7mb		
NWAO	54.77	249 eP	32 43.00	-1.1	
Z	20s	0.50um	4.6Msz		
N	20s	0.20um			
E	20s	0.20um			
MUN	55.87	250 eP	32 49.50	-2.5	
MBL	56.56	264 eP	32 54.00	-3.2X	
SPA	59.67	180 iPc	33 29.10	10.5X	
	1.0s	55.00nm			
		i	34 32.00		
CGP	67.60	295 eP	34 14.00	3.0X	
MAT	78.57	325 (P)	35 23.00	8.1X	
SYP	84.38	44 eP	35 46.00	0.5	
		e	36 11.00		
SSE	84.50	311 e(P)	36 03.50	17.5X	
PRS	84.80	42 eP	35 48.20	0.8	
		epP	36 09.50	78kmX	
		esP	36 13.00		
GCC	84.92	41 eP	35 48.50	0.5	
PCC	85.03	41 eP	35 49.00	0.5	
PRI	85.08	43 eP	35 49.70	0.8	
		epP	36 10.80	78kmX	
		esP	36 15.30		
BAR	85.21	48 eP	35 49.00	-0.6	
PAS	85.23	46 eP	35 49.00	-0.6	
MHC	85.34	41 eP	35 50.70	0.4	
MWC	85.35	46 eP	35 51.00	0.5	
BRK	85.37	41 eP	35 50.50	0.4	
BKS	85.38	41 eP	35 50.00	-0.3	
		isP	36 15.60		
PLM	85.53	47 eP	35 51.00	-0.3	
		e	36 14.00		
RVR	85.63	46 eP	35 52.00	0.4	
		e	36 17.00		
SBB	85.81	45 eP	35 52.00	-0.6	
		e	36 14.00		
ISA	86.06	44 eP	35 48.00	-5.8X	
FRI	86.22	43 ePd	35 54.40	0.0	
		epP	36 16.00	79kmX	
TPC	86.53	47 eP	35 56.00	-0.1	
		e	36 23.00		
CMB	86.54	42 iPd	35 55.80	-0.3	
		epP	36 17.70	81kmX	
		esP	36 21.50		
GLA	86.63	48 eP	35 58.00	1.4	
		e	36 19.00		
CLC	86.69	45 eP	35 56.00	-0.9	
		e	36 18.00		
GSC	86.84	46 eP	35 57.00	-0.6	
		e	36 24.00		
ORV	86.97	40 eP	35 57.90	-0.1	
WDC	87.12	39 eP	35 58.30	-0.4	
		epP	36 16.00	63kmX	
		esP	36 21.70		
TNP	88.42	43 eP	36 06.00	0.7	
	1.0s	3.75nm	4.6mb		
ALQ	93.29	51 eP	36 27.50	-0.5	
BJI	93.30	315 eP	36 33.00	5.4X	
		eS	47 24.00		
CHG	94.02	289 eP	36 38.60	7.2X	
RSSD	99.98	45 eP	36 57.10	-1.1	
YKA	105.34	25 ePdiff	37 41.90	20.4X	
	0.7s	0.20nm			
YKA	105.34	25 ePKP	41 32.20	-3.0	
	0.7s	0.30nm			
SOB1	122.61	126 ePKP	42 11.70	2.2X	
		e	42 37.20		
QUE	125.10	287 ePKP	42 13.20	-0.9	
FRB	125.23	31 ePKP	42 11.00	-2.0	
		pP	42 37.00		
MAIO	132.65	293 ePKP	42 33.00	4.7X	
TAB	143.28	294 ePKP	43 03.00	15.2X	
KAF	144.78	341 ePKP	42 44.90	-4.5X	
	0.5s	8.00nm			
NUR	146.55	340 ePKP	42 51.00	-1.3	
RGS	147.06	353 ePKP	42 52.40	-0.7	
NB2	148.91	352 PKP	42 57.00	0.8	
	0.7s	15.80nm			
UPP	148.92	345 iPKP	42 57.20	1.1	
HFS	149.42	349 ePKP	42 58.00	1.0	
	0.6s	6.30nm			
BCAO	149.99	213 iPKPc	43 04.20	5.0X	
	0.4s	58.00nm			
		ic	43 29.00		
		ic	44 04.90		
BHL	151.81	286 PKP	43 03.00	1.5X	
BBTK	153.67	299 ePKP	43 10.00	6.0X	
EKA	154.85	8 PKP	43 28.00	23.2X	
	1.7s	26.30nm			
KIC	155.04	163 PKP	43 17.48	11.1X	
KRA	156.47	331 ePKP	43 21.60	14.4X	
KSP	157.21	337 ePKP	43 16.50	8.3X	
		e	43 32.00		
		i	43 46.70		
PRU	158.52	338 ePKP	43 31.00	21.3X	
		e	43 43.00		
		e	44 14.00		
DHR	161.80	311 ePKP	43 09.00	-4.5X	

S.D. = 1.2 on 52 of 90 obs.

& JAN 26, 1991 21h 49m 38.02s
37.681 N 111.429 W
DEPTH = 9.8km
UTAH (478)
<SLC-P>. ML 3.3 (SLC), 3.5 (NEIS). Felt (III) at Boulder and Escalante.

MSU	1.02	325 iPc	49 57.00	-0.5	
PV09	1.99	65 eP	50 10.90	-1.5	
DAU	2.73	3 e(P)	50 21.00	-2.0	
DUG	2.73	337 eP	50 20.70	-2.2	
TNP	4.60	277 P	50 45.80	-3.6	
	0.6s	14.04nm			
GSC	4.94	243 eP	50 58.00	3.9	
GOL	5.15	65 eP	50 55.20	-2.1	
TPC	5.18	228 eP	50 59.00	1.6	
BW06	5.29	15 eP	50 57.30	-1.9	
CLC	5.29	251 eP	51 03.00	3.9	
GLA	5.39	212 eP	51 03.00	2.5	
SBB	5.97	242 eP	51 10.00	1.3	
PLM	6.19	227 P	51 14.80	3.0	
MWC	6.39	239 eP	51 37.00	22.3	
BAR	6.58	222 eP	51 19.00	1.7	
RSSD	8.52	39 e(P)	51 43.00	-1.6	

16 obs. associated

& JAN 26, 1991 22h 35m 50.69s
60.133 N 153.552 W
DEPTH = 161.9km
4.1mb (9 obs.)
SOUTHERN ALASKA (2)
<AEIC>. Felt (III) at Clam Gulch.

PDB	0.47	223 iP	36 12.32	-1.2	
		eS	36 28.92		
RED	0.48	53 iP	36 12.73	-1.0	
RS2	0.52	50 iP	36 13.16	-0.8	
RSO	0.52	50 iP	36 13.14	-0.9	
NCT	0.53	35 iP	36 13.09	-0.8	
		eS	36 30.35		
RDN	0.55	45 iP	36 13.23	-0.8	

REF	0.55	49	iP	36	13.30	-0.9	PNT	22.12	104	eP	40	34.00	0.8	VZW	0.34	154	iP	33	45.18	0.2
RDT	0.72	52	iP	36	13.95	-1.0	RMW	22.37	110	eP	40	37.90	2.2	VLZ	0.35	133	iP	33	45.03	0.0
			eS	36	32.47		BMW	22.44	114	eP	40	38.70	2.4				eS	33	50.87	
AUE	0.78	173	iP	36	14.43	-0.8	LON	22.89	112	eP	40	43.00	2.3	KLU	0.47	74	iP	33	46.70	-0.5
AUI	0.80	175	eP	36	14.47	-0.9	NEW	24.05	103	eP	40	52.80	1.0				iS	33	54.08	
MCNL	1.03	203	iP	36	16.06	-1.1		0.9s		14.25nm			4.5mb	GLI	0.50	193	iP	33	47.33	-0.4
HOM	1.07	116	iP	36	16.87	-0.6	VGB	24.29	112	eP	40	55.50	1.5				eS	33	55.55	
NNL	1.13	94	iP	36	17.77	-0.2	LBFM	27.06	120	eP	41	21.00	1.3	TOA	0.81	23	iPd	33	52.90	-0.2
XLV	1.15	126	eP	36	16.97	-1.2	BONR	31.42	119	eP	41	59.10	0.6	SML	0.83	303	eP	33	52.71	-0.7
			eS	36	38.38		BW06	31.69	103	eP	42	00.70	0.0	TZL	0.96	44	iP	33	54.45	-1.2
CDD	1.21	182	iP	36	17.57	-1.1		0.7s		2.92nm			4.2mb	CVA	0.98	146	iP	33	54.29	-1.7
CKL	1.22	29	iP	36	18.42	-0.5	TNP	31.80	117	eP	42	02.00	0.4				eS	34	08.67	
BGL	1.27	26	iP	36	19.09	-0.3		0.9s		2.60nm			4.0mb	HIN	0.99	170	iP	33	54.36	-1.7
SPU	1.29	34	iP	36	18.56	-0.9	DUG	32.11	110	eP	42	04.70	0.4				eS	34	08.38	
			eS	36	40.32			0.7s		2.32nm			4.1mb	GHO	1.07	293	iP	33	56.35	-1.2
NKA	1.30	61	iP	36	19.90	0.4	RSSD	33.42	96	eP	42	16.00	0.3				eS	34	11.83	
CNPM	1.32	117	iP	36	18.77	-1.0	MSU	33.75	111	eP	42	19.50	1.0	KNIM	1.11	203	iP	33	56.08	-2.0
			eS	36	39.87		PV09	35.20	108	eP	42	30.70	-0.2				eS	34	11.44	
CRP	1.33	31	iP	36	19.44	-0.6	GOL	36.07	102	e(P)	42	37.00	-1.2	PLRM	1.11	283	iP	33	56.87	-1.3
BRLK	1.39	104	eP	36	19.46	-1.0		0.7s		1.34nm			3.8mb				eS	34	13.00	
SVW	1.41	315	iPd	36	20.00	-0.7	FRB	37.37	47	eP	42	41.00	-7.4	PMR	1.11	283	iPc	33	57.40	-0.8
SYI	1.64	158	iP	36	21.39	-1.5	JSC	52.31	85	eP	44	45.50	-1.8	SGAM	1.18	136	iP	33	56.37	-3.1
			eS	36	45.48			98 obs. associated									eS	34	13.27	
SLKM	1.70	76	iP	36	21.92	-1.7	----------							PMS	1.31	266	iP	34	00.06	-1.5
SUA	1.92	45	iP	36	24.95	-1.2		JAN 26, 1991 23h 32m 05.65± 0.46s						SDG	1.32	27	iP	33	59.39	-2.2
			eS	36	52.82			6.949 N ± 7.9km 73.222 W ± 8.2km									eS	34	16.56	
SEW	2.05	89	eP	36	26.22	-1.3		DEPTH = 162.5 ± 6.5 km						MTU	1.44	196	iP	34	00.79	-2.5
			eS	36	52.53			4.3mb (3 obs.)									eS	34	21.44	
PMS	2.26	59	iP	36	28.01	-2.0		NORTHERN COLOMBIA					(99)	RAGM	1.45	132	eP	34	00.29	-3.2
PWA	2.35	48	iP	36	29.16	-1.9								GLB	1.47	86	iP	34	00.64	-3.1
PLRM	2.61	54	iP	36	31.45	-2.7	BMG	0.19	50	eP	32	28.00	-1.0	PWA	1.48	282	iP	34	02.39	-1.4
PMR	2.61	54	iPc	36	32.00	-2.2	BOG	2.46	200	iPd	32	48.50	0.8	HMT	1.64	128	eP	34	02.41	-3.7
CUT	2.78	33	iP	36	34.79	-1.4				iS	33	19.00		PAX	1.74	21	eP	34	05.45	-2.2
GHO	2.79	52	iP	36	34.05	-2.5	SDV	3.21	53	iPnc	32	57.80	1.0	SEW	1.80	226	eP	34	06.07	-2.3
LTI	2.86	89	eP	36	36.34	-0.9				iSn	33	35.00		SLKM	1.85	244	eP	34	07.21	-2.1
KNIM	2.91	83	iP	36	35.15	-2.7	HOBC	3.88	229	iPc	33	05.47	0.0	SUA	1.87	275	eP	34	07.64	-2.0
			eS	37	09.81		8UGC	4.28	225	eP	33	10.99	0.2	KAIM	1.88	139	eP	34	06.16	-3.5
MTU	2.96	90	iP	36	37.44	-1.1				eS	33	53.70		CUT	1.92	304	iP	34	08.94	-1.3
TTA	3.04	338	iPd	36	38.90	-0.8	TOV	4.41	50	ePn	33	12.80	0.4	MID	1.96	172	eP	34	03.90	-6.9
GLI	3.28	74	iP	36	39.13	-3.5				iSn	34	02.90		TGL	2.05	106	iP	34	08.62	-3.6
HUR	3.41	32	eP	36	42.58	-1.7	CLMC	4.51	228	eP	33	12.92	-0.9	HUR	2.08	322	eP	34	10.99	-1.5
HIN	3.52	83	eP	36	42.99	-2.7	DIAC	4.69	219	eP	33	16.10	0.0				eS	34	37.04	
VZW	3.57	72	eP	36	43.50	-2.9	HOQC	4.85	225	eP	33	17.72	-0.6	WAX	2.16	113	iP	34	09.80	-4.0
TRF	3.67	24	eP	36	46.06	-1.7	ANCC	4.98	227	eP	33	19.80	-0.1	BALM	2.21	97	iP	34	10.70	-3.8
VLZ	3.70	71	eP	36	45.29	-2.6	SILC	5.25	216	eP	33	24.39	0.6	NKA	2.22	256	eP	34	14.17	-0.4
MID	3.71	98	ePd	36	47.70	-0.4	SALC	5.25	221	ePc	33	22.97	-0.6	RND	2.25	336	eP	34	13.26	-1.8
CVA	3.90	81	eP	36	48.49	-2.1	PURC	5.56	214	eP	33	29.11	1.1	SKT	2.31	287	eP	34	13.55	-2.3
RND	3.97	32	eP	36	49.48	-2.1	UPA	6.57	288	ePc	33	40.20	-0.8	SPU	2.52	268	eP	34	16.26	-2.6
KLU	3.98	67	iP	36	49.17	-2.5		0.9s		40.34nm			4.7mb	NNL	2.56	241	eP	34	17.59	-1.7
TOA	4.09	58	iPc	36	52.00	-1.1	CUMC	7.54	218	eP	33	54.64	0.1	BRLK	2.56	233	eP	34	16.48	-2.9
SGAM	4.17	81	eP	36	51.32	-2.7	ZOBD	23.61	168	eP	37	13.00	9.2X	CRP	2.56	270	eP	34	17.72	-1.8
MCK	4.22	29	eP	36	52.78	-2.0				e	37	36.00		MCK	2.56	339	eP	34	17.49	-2.0
TZL	4.39	61	eP	36	55.07	-1.9	LPB	23.87	168	eP	37	15.00	8.9X	TRF	2.63	324	eP	34	18.59	-2.0
RAGM	4.43	83	eP	36	55.42	-2.1	CNCB	24.17	168	eP	37	10.00	1.0	CKL	2.65	269	eP	34	18.12	-2.7
BWN	4.48	24	eP	36	56.18	-2.0	FRB	56.79	2	eP	41	35.00	0.3	BGL	2.67	270	eP	34	18.38	-2.7
SDG	4.54	55	iP	36	57.38	-1.7	YKA	63.11	340	eP	42	18.00	0.3	CTGM	2.71	96	eP	34	18.31	-3.3
KAIM	4.59	89	eP	36	58.59	-1.0		0.6s		1.70nm			4.1mb	WRG	2.72	117	eP	34	18.67	-3.1
HMT	4.64	83	eP	36	58.81	-1.5	LIC	67.69	86	P	42	46.00	-1.9	RDT	2.82	256	eP	34	19.99	-3.2
PAX	4.80	50	iP	37	00.83	-1.7	KIC	67.97	86	P	42	47.80	-1.8	CNPM	2.85	232	eP	34	20.38	-3.1
NEA	4.92	23	iP	37	01.63	-2.4	MBC	73.66	350	eP	43	24.50	1.9	HOM	2.92	236	eP	34	22.00	-2.5
GLB	4.95	70	eP	37	02.21	-2.2		0.6s		3.00nm			4.2mb	REF	2.99	255	eP	34	22.46	-3.1
THY	4.96	45	eP	37	03.87	-0.6	SOI	85.20	52	P	44	19.30	-5.8X	RDN	3.01	256	eP	34	22.35	-3.5
CCB	5.26	28	iP	37	06.05	-2.4				eSg	44	28.30		RSO	3.02	255	eP	34	22.86	-3.2
HDA	5.28	33	iP	37	06.72	-2.0		S.D. = 1.0 on 21 of 24 obs.						RS2	3.02	255	eP	34	23.01	-3.1
WAX	5.33	82	eP	37	07.04	-2.5	----------							RED	3.04	254	eP	34	23.21	-3.1
RDS	5.33	26	eP	37	07.04	-2.4	?	JAN 27, 1991 00h 53m 40.90± 5.49s						HDA	3.05	359	eP	34	24.41	-1.9
TGL	5.35	79	eP	37	08.45	-1.3		37.288 N ±54.6km 70.976 E ±20.2km						BWN	3.06	338	eP	34	23.80	-2.6
MDM	5.43	25	eP	37	08.49	-2.3		DEPTH = 33.0km (normal)						NCT	3.07	257	eP	34	23.45	-3.2
FBA	5.48	27	iPc	37	09.70	-1.6		AFGHANISTAN-USSR BORDER REGION					(717)	CCB	3.32	353	eP	34	27.79	-2.4
BALM	5.60	76	eP	37	10.99	-2.1								NEA	3.38	344	eP	34	27.52	-3.5
DOT	5.70	48	eP	37	12.40	-2.0	QUE	7.83	206	iPd	55	35.60	0.0	RDS	3.52	351	eP	34	30.61	-2.4
WRG	5.77	86	eP	37	14.54	-0.7				eS	56	53.30		FBA	3.57	354	eP	34	31.50	-2.2
TMW	5.95	53	eP	37	15.41	-2.2	NDI	10.05	147	iPc	56	06.00	0.0	AUE	3.81	241	eP	34	33.75	-3.4
IMA	5.96	360	eP	37	16.20	-1.7		0.5s		102.11nm			6.3mb	SYI	3.92	228	eP	34	35.89	-2.8
SDN	6.07	221	ePd	37	16.70	-2.5	GKN	14.76	125	P	57	08.90	-0.2	PDB	3.95	250	eP	34	35.68	-3.4
CTGM	6.09	77	eP	37	18.52	-1.1	KKN	15.32	124	P	57	16.70	0.2	CDD	4.18	237	eP	34	39.14	-3.3
BCPM	6.97	85	eP	37	30.65	-0.7	DMN	15.33	125	P	57	16.80	0.1	SVW	4.24	270	ePc	34	39.50	-3.8
PNL	7.14	88	eP	37	31.61	-2.0	PKI	15.55	124	P	57	20.00	0.4	TTA	4.57	294	ePd	34	44.40	-3.6
HON	7.44	89	eP	37	35.22	-2.3	GUN	15.64	122	P	57	20.40	-0.4	IMA	5.61	330	ePd	34	59.30	-3.4
SIT	9.99	100	ePd	38	10.40	-0.8		S.D. = 0.3 on 7 of 7 obs.						YKA	15.14	72	eP	37	19.70	7.4
	0.8s		31.20nm			4.9mb	----------								0.8s		0.40nm			2.8mb
INK	11.90	38	P	38	34.00	-2.1	&	JAN 27, 1991 01h 33m 37.71s							68 obs. associated					
	0.7s		1.80nm			3.7mb		61.367 N 146.857 W						----------						
YKA	18.65	66	eP	39	56.00	-2.2		DEPTH = 14.3km						•	JAN 27, 1991 04h 00m 40.47± 0.73s					
	0.6s		5.10nm			4.1mb		2.8mb (1 obs.)							26.832 N ±11.6km 44.560 W ±18.5km					
MBC	20.01	23	eP	40	10.00	-2.0		SOUTHERN ALASKA					(2)		DEPTH = 10.0km (geophysicist)					
	0.7s		8.00nm			4.3mb		<AEIC>.							4.9mb (4 obs.) 4.0Msz (1 obs.)					

27d 04h

NORTH ATLANTIC RIDGE (403)

TUL	44.24	295	eP	08	58.20	6.4X				i	31	27.50			1.4s	80.00nm		5.6mb					
	1.0s	17.10nm				4.9mb				e	31	35.00		HHC	70.69	320 P	37	43.20	0.4				
	Z 20s	0.19um				4.0Msz				eS	35	00.00		CHG	70.79	294 ePd	37	44.00	0.3				
		LR	19	01.40			MNDI	20.90	281 eP		31	11.00	0.6		0.9s	12.82nm		5.0mb					
ZOBO	48.57	211	P	09	27.00	0.2	RMO	21.43	221 iPd		31	16.00	0.6	CD2	71.29	308 P	37	46.40	-0.1				
LPB	48.79	211	P	09	28.00	-0.3		0.7s	149.00nm				5.5mb		0.9s	70.00nm		5.7mb					
CNCB	48.98	210	P	09	30.00	0.1	COO	22.83	208 iPc		31	31.20	1.9	BTO	71.53	319 eP	37	49.00	1.1				
FFC	49.85	320	eP	09	36.00	0.4		0.9s	197.00nm				5.6mb	LZH	73.51	313 Pd	38	00.00	0.3				
	1.2s	21.00nm				5.0mb	OLP	24.60	228 iPd		31	47.60	1.1		5.0s	290.00nm		5.5mb	X				
ALQ	53.00	295	e(P)	10	07.00	7.0X	OIS	25.64	245 iPd		31	54.80	-1.6		Z 20s	0.34um		4.6Msz					
YKA	57.37	329	eP	10	29.90	-1.1		1.0s	37.00nm				4.9mb	GTA	77.83	314 Pd	38	25.00	0.9				
	1.0s	2.50nm				4.2mb	CMS	26.77	217 iPd		32	07.40	0.6		5.0s	390.00nm		5.7mb	X				
BCAO	64.05	99	iPd	11	17.10	0.0		1.0s	151.00nm				5.6mb		Z 18s	0.40um		4.8Msz					
	1.1s	17.00nm				5.1mb	CNB	27.95	207 iPd		32	19.00	1.5			pP	38	31.00	19kmX				
		id	11	24.20			PUZ	29.94	158 P		32	37.20	1.8			sP	38	35.00					
INK	64.99	336	eP	11	23.00	0.6	NOZ	30.34	158 P		32	41.80	3.0X	SVW	78.30	19 ePd	38	27.90	1.8				
S.D. = 0.7	on	7 of	9 obs.				MNG	31.34	163 eP		32	47.80	0.2		0.7s	26.20nm		5.4mb					
----------							TOO	31.58	209 iPd		32	50.80	1.0	RSO	78.75	20 P	38	27.70	-1.1				
? JAN 27, 1991 04h 06m 58.23± 2.75s								0.8s	67.00nm				5.5mb	SPA	79.30	180 iPd	38	32.40	0.7				
64.557 N ± 9.8km 158.352 W ±30.9km							ASPA	31.64	242 iPd		32	47.80	-2.7X		1.0s	17.50nm		5.0mb					
DEPTH = 33.0km (normal)								1.4s	22.70nm				4.8mb			i	38	52.90					
CENTRAL ALASKA (1)							BFD	32.78	213 iPd		33	02.10	1.9	TTA	79.58	17 iPd	38	34.90	1.8				
							KNA	34.89	258 iPd		33	16.80	-1.9		1.0s	16.40nm		5.0mb					
TTA	1.94	146	ePd	07	27.80	-1.7	WARB	38.68	241 iPd		33	49.50	-1.1	SLKM	79.66	21 P	38	33.60	0.1				
IMA	2.48	50	ePd	07	37.40	0.1		0.5s	17.00nm				5.1mb	PMR	80.80	21 ePd	38	40.30	0.9				
SVW	3.68	159	eP	07	55.60	1.4	CGP	43.77	294 eP		34	32.50	0.0		0.6s	4.50nm		4.6mb					
PMR	5.14	121	eP	08	14.30	-0.5	MBL	43.83	251 eP		34	31.50	-1.4	LSA	80.99	303 P	38	40.20	-1.6				
TOA	6.01	109	eP	08	28.20	1.0	MAP	45.22	296 eP		34	43.00	-1.1	RND	82.15	19 P	38	46.00	-0.6				
MBC	17.05	31	eP	10	55.00	-0.2	TVO	45.48	104 iP		34	45.90	-0.4	TOA	82.18	21 ePd	38	48.80	2.0				
S.D. = 1.4	on	6 of	6 obs.					0.8s	80.00nm				5.7mb		0.7s	47.20nm		5.6mb					
----------							TBI	45.77	112 iP		34	47.90	-0.5	IMA	82.63	16 ePd	38	51.00	1.8				
* JAN 27, 1991 05h 17m 13.97± 0.99s								0.8s	75.00nm				5.7mb		0.7s	4.90nm		4.7mb					
36.561 N ± 8.3km 26.769 E ±15.0km							MEKA	45.84	243 eP		34	48.00	-1.0	FBA	83.51	19 ePd	38	54.10	0.6				
DEPTH = 33.0km (normal)							PMO	46.74	100 iP		34	55.60	-0.6		0.7s	12.40nm		5.2mb					
DODECANESE ISLANDS (369)								0.8s	60.00nm				5.6mb	GCC	83.74	51 eP	38	55.70	0.5				
MD 3.7 (ATH).							VAH	47.00	101 iP		34	56.40	-1.8	PRS	84.00	51 eP	38	56.80	0.2				
								0.8s	25.00nm				5.3mb	MHC	84.11	50 eP	38	57.50	0.2				
KAP	1.06	162	ePn	17	32.00	-0.5	TPT	47.01	100 iP		34	57.80	-0.5	WDC	84.48	47 eP	38	58.80	-0.1				
APE	1.12	297	ePn	17	33.00	-0.4		0.8s	30.00nm				5.3mb	PRI	84.49	52 eP	38	55.50	-3.7X				
SMG	1.15	3	ePn	17	32.50	-1.2	RUV	47.24	101 iP		34	59.00	-1.1	GUN	84.92	300 P	39	02.20	0.4				
NPS	1.60	216	ePn	17	41.00	0.7		0.8s	40.00nm				5.5mb		1.0s	55.00nm		5.7mb					
IZM	1.88	12	iPn	17	45.80	1.5	KLB	47.64	237 eP		35	01.00	-2.1	PKI	85.24	299 P	39	03.40	0.0				
S.D. = 1.5	on	5 of	5 obs.				BAL	48.27	239 eP		35	05.00	-3.1X	CMB	85.27	50 eP	39	02.70	-0.2				
----------							TSM	48.34	286 ePd		35	09.80	1.0	KKN	85.41	299 P	39	04.20	0.1				
JAN 27, 1991 06h 26m 27.94± 0.17s							NWAO	48.43	235 eP		35	07.00	-2.2	FRI	85.47	51 eP	39	03.80	-0.1				
10.767 S ± 3.9km 164.277 E ± 3.5km							MRWA	48.57	240 eP		35	09.00	-1.4	DMN	85.51	299 P	39	05.00	0.3				
DEPTH = 33.0km (normal)							MUN	49.02	237 eP		35	13.00	-0.8	GKN	86.01	299 P	39	06.60	-0.4				
5.3mb (37 obs.) 4.7Msz (6 obs.)							PPR	49.68	293 iPd		35	19.00	-0.1	PGC	86.59	39 eP	39	09.00	-0.1				
SANTA CRUZ ISLANDS REGION (183)							BAG	50.97	301 eP		35	28.50	-0.6	PLM	86.71	55 P	39	10.00	-0.4				
CENTROID, MOMENT TENSOR (HRV)							KAKJ	51.95	335 eP		35	34.70	-1.3	TNP	87.68	51 eP	39	14.00	-1.0				
Data Used: GDSN							CHJJ	52.32	334 eP		35	38.10	-0.7		0.9s	3.91nm		4.7mb					
L.P.B.: 11S, 22C							IIDJ	52.32	333 P		35	38.40	-0.4	WMO	87.88	315 P	39	15.60	0.0				
Centroid Location:							MAT	53.07	334 iPd		35	43.20	-1.2	PNT	89.19	39 eP	39	22.00	0.3				
Origin Time 06:26:34.9 0.8								1.2s	39.06nm				5.2mb		0.9s	10.00nm		5.1mb					
Lat 10.14S 0.12 Lon 164.06E 0.09										eS	43	15.00		GBA	89.47	284 Pc	39	22.90	-0.7				
Dep 15.0 FIX Half-duration 1.6							MTMJ	53.28	333 P		35	45.50	-0.5		0.6s	2.50nm		4.7mb					
Moment Tensor; Scale 10**17 Nm							NIIJ	53.32	335 eP		35	45.70	-0.5	INK	90.11	19 eP	39	26.00	0.5				
Mrr=-0.11 0.05 Mtt=-0.32 0.05							SSE	58.66	317 Pd		36	23.50	-1.1	NEW	90.48	41 P	39	27.70	0.0				
Mff= 0.43 0.06 Mrt= 0.03 0.10								1.0s	62.00nm				5.7mb		0.7s	7.20nm		5.1mb					
Mrf=-1.12 0.17 Mtf= 0.42 0.06								Z 20s	0.50um				4.6Msz	LRM	92.99	44 eP	39	39.90	0.3				
Principal Axes:										pP	36	32.00	28kmX	POO	93.76	288 eP	39	43.00	-0.4				
T Val= 1.38 Plg=36 Azm=103							GZH	60.14	304 Pc		36	35.60	0.7	PV09	93.97	52 P	39	44.70	0.3				
N -0.27 23 355							NJ2	60.81	316 Pc		36	40.00	0.6	BW06	94.43	47 P	39	45.50	-0.8				
P -1.10 45 240								1.0s	100.00nm				5.9mb		0.7s	2.24nm		4.7mb					
Best Double Couple:Mo=1.2*10**17							OIZ	61.28	299 P		36	42.40	-0.4	YKA	95.39	27 eP	39	48.20	-1.7				
NP1:Strike=253 Dip=24 Slip= -12							WHN	63.13	312 Pc		36	54.70	-0.3		0.9s	2.80nm		4.7mb					
NP2: 353 85 -113							MDJ	63.44	333 Pc		36	56.50	-0.2	ALQ	95.48	56 eP	39	50.80	-0.5				
							SNY	64.31	327 eP		37	01.60	-0.9		1.0s	2.50nm		4.6mb					
							TIA	64.45	319 Pd		37	01.80	-1.8	M8C	97.17	14 eP	40	04.00	6.2X				
								Z 26s	0.30um				4.4MszX	CNCB	121.52	117 PKP	45	22.00	0.7				
HNR	4.47	287	eP	27	35.00	-0.1	CN2	64.77	330 Pd		37	05.00	-0.4	LPB	121.53	117 (PKP)	45	35.00	13.8X				
			eS	28	30.00			Z 15s	0.70um				5.0MszX	ZOBO	121.61	117 PKP	45	21.00	-0.5				
SVO	4.68	290	eP	27	40.00	1.9				pP	37	14.00	29kmX	NB2	126.05	344 PKP	45	27.40	-0.8				
VSG	4.74	288	eP	27	40.00	1.0				eS	45	47.00			0.8s	5.50nm							
BKM	7.86	151	iPc	28	22.60	-0.4	IPM	64.78	280 ePd		37	05.10	-1.0	HFS	126.09	342 ePKP	45	26.50	-1.7				
DZM	11.43	170	iPc	29	10.50	-1.6		0.8s	57.80nm				5.7mb		1.0s	10.90nm							
			iS	31	12.00		GYA	67.07	305 iPd		37	20.60	-0.1	SIV	127.83	120 PKP	45	30.00	-2.9X				
RAB	13.66	298	e(P)	29	43.00	1.2	BJI	67.37	322 eP		37	22.00	-0.1	KSP	132.20	333 ePKP	45	40.00	-0.1				
MBU	15.32	115	eP	30	09.10	5.6X		1.4s	33.00nm				5.2mb	PPD	132.24	133 e(PKP)	45	41.00	-0.1				
YUN	15.51	119	eP	30	06.10	0.2		Z 20s	0.30um				4.5Msz	BRG	133.20	335 e(PKP)	45	42.00	0.0				
SVA	15.55	120	ePc	30	10.90	4.4X				eS	46	16.00			0.9s	10.00nm							
PMG	16.91	273	eP	30	20.00	-3.8X	LOE	67.83	294 iPd		37	25.00	-0.5	CLL	133.26	336 iPKPd	45	42.00	-0.1				
YYYY	18.66	282	eP	30	45.00	-0.6	NNT	68.15	288 eP		37	29.00	1.5		1.1s	10.00nm							
CTA	19.67	240	iPd	30	57.20	-0.2	TIY	68.38	318 eP		37	28.20	-0.5	KHC	134.65	333 ePKP	45	46.20	1.3				
0.9s	392.44nm				5.7mb			Z 18s	0.60um				4.9Msz	WTS	135.00	340 ePKP	45	47.00	1.7				
		iS	34	39.00		XAN	68.87	313 Pd		37	31.50	-0.2		1.0s	9.00nm								
BRS	19.77	212	iPc	30	59.30	1.0	KMI	69.75	302 Pd		37	38.00	0.5	ENN	136.33	340 ePKP	45	50.00	2.1				

```
        0.8s      6.00nm
ABH   136.51 338 ePKP   45 49.62    1.2
LOR   140.03 339 ePKP   45 46.30   -8.6X
        0.8s      6.70nm
      Z  19s      0.15um            4.8Msz
LPL   140.40 335 ePKP   45 47.40   -8.5X
        0.8s      4.05nm
LPG   140.40 335 ePKP   45 47.50   -8.5X
        0.7s      4.40nm
LPF   140.86 344 ePKP   45 50.00   -6.3X
        0.9s     13.10nm
MAF   141.38 340 ePKP   45 49.50   -7.9X
TCF   141.45 340 ePKP   45 49.70   -7.8X
        1.0s     10.00nm
MFF   141.91 343 ePKP   45 51.20   -7.1X
ETER  144.63 336 ePKP   46 02.10   -1.0
BCAO  145.49 262 iPKPd  46 04.90   -0.5
        0.7s     69.00nm
                 ic     46 19.60
ECRI  146.24 342 ePKP   46 07.60    1.7
EMON  146.65 349 iPKPc  46 08.20    1.7
STS   147.40 350 iPKPc  46 10.40    2.8X
ERUA  147.61 348 ePKP   46 11.00    3.0X
ETOR  147.73 340 ePKP   46 11.50    3.1X
SOB1  148.05 127 ePKP   46 14.80    5.3X
                 e      46 20.40
GUD   148.54 343 iPKPd  46 13.90    4.2X
TOL   149.21 342 iPKPc  46 16.30    5.7X
        1.0s     50.00nm
EPLA  149.59 345 ePKP   46 16.30    5.1X
EVIA  149.83 339 ePKP   46 17.00    5.3X
EALH  150.12 337 iPKPc  46 17.60    5.6X
EBAN  150.69 341 iPKPc  46 19.30    6.4X
ENIJ  151.21 337 ePKP   46 19.60    5.9X
ECOG  151.42 339 ePKP   46 19.80    5.6X
AFC   151.44 339 ePKP   46 20.00    5.8X
EHOR  151.47 342 iPKPc  46 21.00    7.0X
EVAL  152.10 345 iPKPc  46 22.40    7.4X
EPRU  152.25 342 ePKP   46 23.00    7.7X
EJIF  152.80 342 ePKP   46 23.70    7.7X
IFR   155.36 338 iPKP   46 22.00    2.2
                 i      46 30.00
      S.D. = 1.0  on 122 of 156 obs.
-------------------------------------
   JAN 27, 1991  06h 58m 30.72± 1.15s
    4.523 N ± 4.4km  127.604 E ± 8.8km
   DEPTH = 116.8 ± 10.8 km
    4.9mb ( 20 obs.)
 TALAUD ISLANDS                  (263)

MNI     4.12 222 eP     59 34.00    1.2
                eS      00 22.50
CGP     4.86 324 eP     59 43.20    0.4
                eS      00 13.00
MAP     6.79 328 eP     00 07.00   -2.3
TSM     9.51 269 ePd    00 49.70    3.6X
KNA    20.17 177 iPd    02 58.10   -0.1
        0.5s     64.00nm            5.2mb
MBL    26.64 196 eP     04 00.00   -0.3
OIS    27.57 155 iPd    04 07.90   -0.9
        0.3s     13.00nm            5.0mb
ASPA   28.68 168 iPc    04 18.00   -0.8
        0.4s     35.10nm            5.4mb
WHN    28.74 336 eP     04 20.10    0.9
WARB   30.54 182 iPc    04 36.60    1.4
        0.5s     13.00nm            4.9mb
CHG    31.38 299 eP     04 43.10    0.3
MEKA   32.17 195 iPc    04 49.50    0.0
MAT    33.32  16 eP     04 56.00   -3.4X
XAN    34.12 332 P      05 06.40    0.1
CD2    34.54 322 P      05 10.00    0.0
FORR   35.18 179 iPc    05 13.60   -1.6
        0.4s     69.00nm            5.9mb
MRWA   35.35 198 eP     05 16.00   -0.8
TIY    35.83 339 eP     05 21.50    0.7
BAL    36.45 196 eP     05 21.00   -5.0X
BJI    36.83 345 eP     05 29.50    0.4
        1.0s     35.00nm            5.2mb
                e       06 01.00
KLB    37.12 194 iPc    05 31.80    0.2
SNY    37.32 355 Pd     05 33.20    0.1
        1.0s     10.00nm            4.6mb
MUN    37.88 196 iPd    05 38.60    0.5
LZH    38.28 328 P      05 42.00    0.5
        1.5s     54.00nm            5.2mb
NWAO   38.52 194 eP     05 44.00    0.6
HHC    38.93 341 eP     05 42.80   -4.1X
RKG    39.67 194 eP     05 58.30    5.5X
BRS    39.97 144 iPc    05 35.00  -20.4X
LSA    42.58 310 P      06 17.60    0.2
GTA    42.88 328 Pc     06 20.10    0.8
        1.2s     30.00nm            4.9mb
BFD    43.76 163 eP     06 28.00    1.8
GUN    45.98 305 P      06 44.60    0.1
PKI    46.23 304 P      06 46.70    0.2
DZM    46.29 126 iPc    06 45.50   -1.2
KKN    46.42 305 P      06 47.40   -0.4
DMN    46.50 304 P      06 48.60    0.1
GKN    47.03 305 P      06 52.40   -0.2
GBA    50.27 284 Pc     07 16.20   -1.2
        1.1s     6.50nm             4.5mb
WMQ    52.59 324 Pd     07 35.20    0.6
        0.7s     20.00nm            5.2mb
SDN    76.04  34 iPd    10 06.80    0.1
        0.6s     76.90nm            5.7mb
SVW    79.67  29 iPd    10 28.20    1.6
        0.7s     15.30nm            4.9mb
TTA    79.80  27 iPd    10 28.50    1.2
        0.7s      7.10nm            4.6mb
IMA    81.31  24 ePc    10 36.50    1.2
        0.7s      7.60nm            4.6mb
SLKM   82.23  30 eP     10 40.00    0.0
PMR    82.84  29 ePc    10 43.00    0.0
        0.7s     10.90nm            4.8mb
RND    83.08  27 eP     10 44.10   -0.3
FBA    83.64  25 ePd    10 47.20    0.1
        0.7s      4.30nm            4.5mb
TOA    84.26  28 ePd    10 52.00    1.7
        0.9s     85.20nm            5.6mb
INK    89.11  22 eP     11 12.00   -1.8
KEV    89.45 340 eP     11 35.00   19.7X
SOD    90.07 338 eP     11 17.00   -1.2
NUR    92.44 331 eP     11 29.00   -0.2
HFS    97.72 333 ePKP   11 51.00   -2.4
        0.4s      0.90nm            4.6mb
YKA    98.42  25 eP     11 55.20   -1.3
        0.8s      1.40nm            4.6mb
PPD   162.56 183 ePKP   18 06.10  -14.2X
      S.D. = 1.0  on 47 of 55 obs.
-------------------------------------
   JAN 27, 1991  07h 26m 52.14± 1.08s
   24.110 S ± 8.0km  179.300 E ± 4.4km
   DEPTH = 545.1 ± 15.9 km
    5.1mb ( 22 obs.)
 SOUTH OF FIJI ISLANDS           (171)

DZM    12.01 277 iPd    29 33.10    1.7
                iS      31 51.90
AFI    13.19  41 P      29 38.80   -4.6X
PUZ    13.95 183 eP     29 50.00   -0.8
WLZ    14.05 192 eP     29 53.70    1.9
NOZ    14.50 184 eP     29 57.40    1.1
PGZ    16.66 188 eP     30 17.30   -0.1
MNG    16.77 190 eP     30 18.30   -0.3
KIW    17.11 191 eP     30 21.40   -0.4
MTW    17.30 190 eP     30 23.50   -0.1
CAW    17.32 191 eP     30 25.10    1.2
WDW    17.49 191 eP     30 25.20   -0.3
MRW    17.50 192 eP     30 25.90    0.3
WEL    17.54 191 P      30 30.00    4.0X
                S       33 24.00
TCW    17.57 193 eP     30 26.60    0.4
THZ    18.39 195 eP     30 35.00    0.7
KHZ    18.87 193 eP     30 38.70   -0.1
LTZ    19.51 196 eP     30 44.50   -0.3
MQZ    20.30 194 eP     30 52.00    0.0
BRS    24.10 257 iPc    31 28.00    1.2
TBI    28.58  95 iP     32 05.70   -0.4
        1.0s     75.00nm            5.3mb
AFR    29.59  83 iP     32 14.40   -0.4
        0.8s     65.00nm            5.3mb
PAE    29.73  84 iP     32 15.50   -0.6
        0.8s     35.00nm            5.0mb
PPT    29.76  83 iP     32 15.90   -0.5
        0.8s     35.00nm            5.0mb
TVO    29.99  84 iP     32 17.30   -1.1
        0.8s     35.00nm            5.0mb
CTA    30.84 271 iPd    32 26.00    0.5
        0.5s    202.82nm            6.0mb
                iS      36 50.00
PMO    32.14  80 iP     32 35.80   -0.7
        0.8s     20.00nm            4.8mb
VAH    32.30  80 iP     32 37.40   -0.4
        0.8s     25.00nm            4.9mb
TPT    32.40  80 iP     32 38.50   -0.1
        0.8s     45.00nm            5.1mb
RUV    32.54  80 iP     32 39.50   -0.3
        0.8s     35.00nm            5.0mb
PMG    33.96 290 eP     32 51.00   -0.8
        0.8s    283.58nm            5.9mb
OIS    36.80 268 eP     33 15.00   -0.3
ASPA   41.37 261 iPc    33 51.80   -0.5
        0.6s     43.10nm            5.2mb
                eS      39 26.50
                iScS    42 55.40
WRA    41.75 267 P      33 54.00   -1.3
        0.4s     53.80nm            5.4mb
FORR   45.60 250 iPd    34 23.90   -1.3
        0.4s     40.00nm            5.3mb
MTN    46.83 275 eP     34 33.70   -1.1
        0.3s     41.00nm            5.4mb
WARB   47.44 256 iPd    34 38.80   -0.6
        0.4s      7.00nm            4.5mb
KNA    48.02 270 eP     34 43.00   -0.8
KLB    54.31 247 eP     35 28.00   -1.5
MBL    54.61 260 iPd    35 30.40   -1.3
        0.3s      8.00nm            4.5mb
MUN    55.56 247 eP     35 38.00   -0.2
MRWA   56.21 250 eP     35 42.00   -0.7
CGP    62.34 294 iPd    36 21.60   -2.0
MAT    71.71 326 iPd    37 19.30   -1.2
        0.8s     18.66nm            4.7mb
MDJ    82.08 327 eP     38 16.50    0.1
PRS    82.14  45 eP     38 18.10    1.2
WHN    82.62 308 Pc     38 20.20    0.8
SNY    83.41 322 Pd     38 23.00    0.0
        1.0s     12.00nm            4.4mb
FRI    83.60  45 eP     38 24.50    0.4
CN2    83.68 324 Pd     38 24.60    0.3
        1.0s     30.00nm            4.8mb
CMB    83.79  44 eP     38 26.00    0.9
TIA    83.91 314 Pd     38 26.50    0.8
WDC    84.03  41 eP     38 27.20    1.0
TNP    85.84  45 eP     38 36.10    0.8
        0.8s      2.21nm            3.9mb X
TIY    87.86 313 iPd    38 45.50    0.8
SLKM   87.90  15 eP     38 44.20   -0.1
XAN    88.37 309 P      38 48.00    0.9
CHG    89.15 291 eP     38 52.70    1.8
CD2    90.66 304 P      38 59.20    1.5
        1.0s     20.00nm            5.1mb
LZH    93.00 308 Pd     39 09.50    1.0
        1.0s     25.00nm            5.3mb
KAF   137.84 341 ePKP   45 15.00   -0.5
NB2   142.19 351 PKP    45 18.80   -4.6X
        1.0s     10.40nm
HFS   142.62 348 ePKP   45 18.80   -5.2X
        0.4s     30.30nm
MML   147.25 293 ePKP   45 36.50    3.8X
MKT   147.59 290 ePKP   45 37.50    4.3X
MBH   147.87 288 ePKP   45 38.00    4.2X
EKA   148.76   3 PKPd   45 39.10    4.9X
        0.4s      2.20nm
KRA   149.51 333 ePKP   45 40.40    4.9X
KSP   150.25 338 iPKPd  45 42.90    6.3X
        0.6s     33.00nm
                i       45 51.30
CLL   150.86 342 iPKP   45 43.70    6.2X
        0.8s     31.00nm
                e       45 53.00
BRG   150.98 341 iPKPd  45 44.20    6.5X
        0.9s     23.00nm
PRU   151.56 339 PKP    45 45.50    6.9X
        1.0s     14.50nm
                e       45 56.00
WTS   151.57 350 ePKP   45 45.50    7.0X
        0.8s     16.00nm
KHC   152.62 339 ePKP   45 48.50    8.3X
                e       46 01.50
GRF   152.81 343 ePKP   45 49.60    9.2X
                e       46 02.10
ENN   152.90 351 ePKP   46 02.00   21.6X
        0.7s      8.00nm
BCAO  153.05 226 ePKPc  45 50.10    8.3X
        0.8s      7.00nm
                ic      46 04.20
      S.D. = 0.9  on 58 of 76 obs.
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&  JAN 27, 1991  09h 02m 48.80s
    32.950 N          115.717 W
    DEPTH =   6.0km  (geophysicist)
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27d 09h

CALIFORNIA-MEXICO BORDER REGION (45)
<PAS-P>. ML 2.6 (PAS).

GLA	0.76	82	eP	03 02.30	-1.6
PLM	1.04	293	eP	03 06.70	-2.3
	2 obs. associated				

JAN 27, 1991 09h 25m 30.84± 1.24s
3.553 S ± 8.9km 149.085 E ± 8.4km
DEPTH = 50.9 ± 13.6 km
4.9mb (7 obs.) 4.9Msz (5 obs.)
BISMARCK SEA (203)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 34C
Centroid Location:
Origin Time 09:25:32.4 0.4
Lat 3.19S 0.04 Lon 149.01E 0.03
Dep 15.0 FIX Half-duration 2.2
Moment Tensor; Scale 10**17 Nm
Mrr= 0.05 0.06 Mtt= 0.81 0.07
Mff=-0.87 0.07 Mrt= 0.00 0.00
Mrf= 0.00 0.00 Mtf= 1.93 0.06
Principal Axes:
T Val= 2.08 Plg= 0 Azm=147
N 0.05 90 180
P -2.13 0 57
Best Double Couple:Mo=2.1*10**17
NP1:Strike=192 Dip=90 Slip=-180
NP2: 282 90 0

RAB	3.14	102	iPd	26 19.00	-0.1
YYYY	4.10	229	eP	26 32.00	-0.7
PMG	6.13	198	eP	27 02.00	0.9
CTA	16.66	189	iPd-	29 29.30	6.8X
	1.3s		53.85nm		4.5mb
OIS	19.26	208	eP	29 53.00	-1.2
RMO	22.81	181	eP	30 31.00	0.6
BRS	23.97	172	iPc	30 32.50	-9.1X
			i	31 27.80	
			eS	35 05.00	
ASPA	24.80	215	eP	30 50.00	0.3
	1.0s		23.40nm		4.7mb
			eS	35 18.50	
MAT	41.16	347	eP	33 07.00	-4.9X
Z	20s		2.48um		5.1Msz
			eS	39 14.00	
OIZ	44.66	302	eP	33 40.50	-0.1
N	17s		2.70um		
E	20s		2.90um		
			eS	40 15.00	
			eSS	43 34.00	
GYA	50.71	309	P	34 33.00	5.1X
Z	18s		0.70um		4.7Msz
N	15s		0.60um		
E	15s		0.80um		
SNY	50.78	335	eP	34 32.00	4.1X
Z	25s		1.80um		5.0MszX
BJI	52.85	328	eP	34 35.50	-8.1X
Z	28s		1.79um		5.0MszX
N	18s		1.50um		
			eS	42 10.00	
XAN	53.19	318	eP	34 51.00	4.6X
N	18s		1.60um		
			S	42 15.00	
CD2	55.13	312	P	35 01.20	0.6
BTO	56.62	325	eP	35 12.50	1.3
N	19s		1.30um		
E	19s		1.90um		
LZH	57.78	317	eP	35 15.00	-4.6X
	2.0s		32.00nm		5.1mb
Z	22s		1.12um		4.9Msz
N	13s		0.58um		
			pP	35 31.00	60kmX
			ePP	37 28.00	
			eS	43 16.00	
			SS	47 10.00	
GTA	62.25	318	eP	35 49.40	-0.7
	1.2s		10.00nm		4.8mb
Z	18s		1.20um		5.1Msz
E	12s		0.40um		
			eS	44 18.00	
GUN	68.31	302	P	36 29.90	0.2
	0.8s		20.00nm		5.2mb
PKI	68.62	301	P	36 31.50	0.0
KKN	68.79	301	P	36 32.20	-0.2
DMN	68.89	301	P	36 33.30	0.2
	1.0s		40.00nm		5.3mb
GKN	69.39	302	P	36 35.90	-0.2
WMQ	72.33	318	P	36 53.50	0.1
Z	20s		0.40um		4.7Msz
			PcP	37 13.00	
			S	46 16.00	
			SS	50 56.00	
INK	88.63	21	eP	38 13.00	-6.4X
YKA	96.05	28	eP	38 52.90	-0.9
	0.8s		1.10nm		4.4mb
ZOBO	138.28	119	ePKP	44 45.00	-9.0X
Z	24s		0.20um		4.8MszX
			LR	30 32.00	
	S.D. = 0.7		on	17 of 27 obs.	

JAN 27, 1991 09h 56m 46.96± 0.58s
39.759 N ± 6.2km 141.811 E ± 4.5km
DEPTH = 84.7 ± 5.4 km
4.6mb (17 obs.)
HONSHU, JAPAN (227)

OFUJ	0.69	189	P	57 01.90	-1.2
			S	57 12.90	
AOMJ	1.36	306	iPd	57 11.50	0.5
			S	57 29.30	
YAMJ	2.10	222	P	57 21.60	0.7
MRRJ	2.72	348	P	57 28.20	-1.1
			eS	58 00.10	
MAT	4.29	223	iPd	57 52.20	1.0
			eS	58 46.00	
MDJ	10.28	302	eP	59 14.00	0.5
CN2	12.86	294	eP	59 49.00	1.2
SNY	13.97	284	eP	00 02.80	0.6
SSE	18.87	249	Pc	01 02.30	-0.8
	1.0s		30.00nm		4.5mb
			PP	01 27.50	
BJI	19.66	279	eP	01 08.50	-3.0X
	1.0s		18.00nm		4.3mb
			e	04 42.00	
NJ2	20.09	255	Pd	01 14.40	-1.6
TIY	22.96	274	eP	01 46.10	1.4
HHC	23.04	283	eP	01 44.20	-1.3
WHN	24.19	256	ePc	01 57.00	0.5
			pP	02 13.50	72kmX
BTO	24.24	282	eP	01 53.40	-3.7X
LZH	30.02	275	eP	02 48.00	-2.0
	1.5s		17.00nm		4.6mb
Z	14s		0.50um		4.1MszX
			sP	03 22.50	
GYA	32.08	256	iPd	03 07.00	-1.0
GTA	32.16	283	eP	03 09.20	0.6
KMI	35.76	258	eP	03 39.20	-0.6
WMO	39.95	294	P	04 14.50	0.0
TTA	43.03	36	ePc	04 40.20	0.8
SVW	43.17	39	ePd	04 42.40	1.9
	0.8s		22.80nm		5.1mb
IMA	44.20	32	ePd	04 49.90	1.0
	0.7s		8.80nm		4.7mb
RSO	44.59	40	P	04 52.00	-0.2
SLKM	45.84	40	P	05 00.00	-1.9
RND	46.27	36	P	05 04.00	-1.3
FBA	46.65	34	ePc	05 09.00	0.9
	0.6s		6.40nm		4.7mb
GUN	47.25	273	P	05 14.20	0.4
TOA	47.62	37	eP	05 17.30	1.4
KKN	47.77	274	P	05 18.00	0.3
PKI	47.78	273	P	05 18.20	0.3
DMN	48.00	273	P	05 20.30	0.8
GKN	48.16	274	P	05 20.90	0.2
INK	51.83	28	eP	05 47.50	-0.4
MBC	53.83	17	eP	06 02.50	-0.1
	1.0s		7.00nm		4.6mb
WRA	59.80	188	P	06 43.00	-2.5X
	0.8s		4.20nm		4.6mb
KEV	61.01	339	eP	06 58.00	4.7X
YKA	61.31	31	eP	06 53.70	-1.6
	0.6s		2.20nm		4.4mb
GBA	61.77	264	P	06 59.00	0.0
SOD	62.58	337	iP	07 03.30	-0.5
KAF	66.04	332	eP	07 25.40	-0.8
NUR	67.70	332	eP	07 36.00	-0.7
NEW	67.97	45	P	07 38.50	-0.3
	0.8s		12.50nm		4.9mb
WDC	69.21	54	eP	08 02.70	1.3X
FFC	71.25	33	iPc	07 58.00	-0.6
	0.6s		8.00nm		4.8mb
MHC	71.66	57	eP	08 03.50	2.0
HFS	71.74	336	eP	08 00.70	-0.7
	0.4s		4.50nm		4.7mb
Z	19s		0.74um		5.0Msz
			LR	34 36.00	
NB2	71.80	337	P	08 01.30	-0.5
	0.6s		5.10nm		4.6mb
HBMT	71.93	45	eP	08 03.00	-0.1
CMB	72.05	55	eP	08 04.00	0.3
PRS	72.43	57	eP	08 06.20	0.3
LLA	72.54	57	eP	08 07.40	0.8
FRI	73.10	56	eP	08 10.00	0.2
TNP	74.01	54	P	08 15.50	0.2
	0.7s		4.67nm		4.5mb
FRB	74.05	14	ePc	08 13.40	-1.4
BW06	75.54	46	P	08 23.80	-0.3
	0.7s		5.85nm		4.6mb
RSSD	77.60	42	P	08 34.50	-1.0
PV09	78.61	49	P	08 41.00	-0.3
ALO	82.60	50	eP	09 03.00	0.7
	1.1s		9.49nm		4.6mb
OHR	83.27	319	eP	09 06.20	0.8
LOR	85.61	333	eP	09 18.80	1.8
	0.9s		4.90nm		4.5mb
FLN	85.75	336	eP	09 17.70	0.1
LDF	85.79	336	eP	09 18.00	0.2
SSF	85.91	333	eP	09 18.80	0.4
LPL	86.03	330	eP	09 22.20	2.8X
LPG	86.04	330	eP	09 22.10	2.6X
ZOBO	144.98	57	PKP	16 15.00	-1.9X
LPB	145.19	57	ePKP	16 16.00	-1.0
CNCB	145.47	57	PKP	16 18.00	0.3
SIV	149.03	47	PKPc	16 26.80	4.0X
SOB1	149.48	5	ePKP	16 30.80	7.3X
	S.D. = 1.0		on	61 of 71 obs.	

% JAN 27, 1991 11h 12m 39.67± 0.85s
37.654 N ± 7.5km 15.020 E ± 7.0km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO	0.38	317	Pd	12 47.20	-0.3
			eSg	12 53.90	
MEU	0.56	187	P	12 50.80	-0.2
			eSg	13 00.50	
ATN	0.62	35	Pd	12 51.50	-0.6
			eSg	13 02.30	
GIB	0.85	293	P	12 56.70	0.5
			eSg	13 09.20	
SOI	0.92	63	P	12 57.80	0.6
			eSg	13 13.70	
	S.D. = 0.7		on	5 of 5 obs.	

? JAN 27, 1991 11h 39m 01.88± 0.92s
31.673 S ± 8.2km 116.970 E ± 8.7km
DEPTH = 10.0km (geophysicist)
WESTERN AUSTRALIA (590)

KLB	0.68	83	iPc	39 14.90	-0.5
			eS	39 23.00	
MUN	0.72	245	iPd	39 15.50	-0.5
			iS	39 24.50	
BAL	1.09	348	iPc	39 22.70	0.4
			iS	39 36.90	
NWAO	1.27	170	eP	39 26.00	0.5
			eS	39 41.00	
	S.D. = 0.9		on	4 of 4 obs.	

? JAN 27, 1991 11h 53m 13.35± 0.81s
26.878 N ±13.6km 44.577 W ±21.4km
DEPTH = 10.0km (geophysicist)
4.8mb (3 obs.)
NORTH ATLANTIC RIDGE (403)

ZOBO	48.60	211	P	02 00.00	0.1
LPB	48.82	211	P	02 08.00	6.6X
CNCB	49.01	210	P	02 03.00	0.0
FFC	49.80	320	eP	02 09.00	0.9
	1.0s		15.00nm		4.9mb
YKA	57.32	329	eP	03 01.70	-1.8
	1.0s		2.30nm		4.2mb
MBC	60.48	345	eP	03 26.00	0.7
BCAO	64.07	99	iPc	03 50.10	0.0
	0.8s		7.00nm		4.9mb
INK	64.94	336	ePd	03 55.10	0.2
	S.D. = 1.1		on	7 of 8 obs.	

• JAN 27, 1991 12h 48m 28.51± 0.61s

26.727 N ±10.1km 44.702 W ±16.1km
DEPTH = 10.0km (geophysicist)
4.7mb (8 obs.)
NORTH ATLANTIC RIDGE (403)

TUL	44.17	295	ePc	56 46.10	6.8X	
	0.8s	10.80nm		4.7mb		
SIV	45.34	202	P	56 48.20	-0.6	
ZOBO	48.42	211	Pc	57 13.90	0.2	
LPB	48.64	210	P	57 16.00	0.8	
FFC	49.85	320	ePn	57 24.00	0.4	
	1.0s	15.00nm		4.9mb		
NB2	50.60	31	P	57 29.40	0.1	
	0.9s	3.30nm		4.3mb		
ALO	52.93	295	eP	57 54.50	7.0X	
BW06	54.37	305	eP	57 56.60	-1.4	
	0.7s	4.87nm		4.6mb		
YKA	57.39	329	eP	58 17.10	-2.1	
	0.9s	3.10nm		4.3mb		
NEW	59.11	312	ePc	58 26.50	-5.0X	
	1.0s	11.00nm		4.9mb		
MBC	60.60	345	eP	58 42.00	0.8	
	1.0s	6.00nm		4.7mb		
BCAO	64.16	98	iPc	59 05.20	-0.7	
	0.7s	8.00nm		5.0mb		
INK	65.03	336	ePd	59 11.10	0.4	
FBA	71.45	334	eP	59 51.40	0.7	
IMA	73.16	336	eP	00 02.00	1.0	
PMR	73.36	331	eP	00 02.30	0.3	

S.D. = 1.0 on 13 of 16 obs.

• JAN 27, 1991 13h 46m 15.73± 0.52s
26.636 N ±10.9km 44.564 W ± 9.8km
DEPTH = 10.0km (geophysicist)
4.4mb (15 obs.) 4.0Msz (2 obs.)
NORTH ATLANTIC RIDGE (403)

LPF	39.99	46	eP	53 51.20	-0.9	
MFF	40.20	48	eP	53 54.40	0.5	
	0.9s	6.55nm		4.3mb		
FLN	40.55	45	eP	53 54.60	-2.1	
	0.8s	8.05nm		4.5mb		
Z	22s	0.35um		4.2Msz		
LSF	41.25	49	eP	54 03.60	1.1	
	0.9s	5.75nm		4.3mb		
TCF	41.72	49	eP	54 07.30	0.9	
AVF	42.59	49	eP	54 14.20	0.7	
	0.9s	3.30nm		4.1mb		
SSF	42.75	49	eP	54 14.80	0.0	
	0.9s	4.10nm		4.2mb		
SMF	42.90	49	eP	54 16.20	0.2	
	0.9s	4.90nm		4.2mb		
LBF	43.05	49	eP	54 17.30	0.0	
TUL	44.32	295	e(P)	54 34.70	7.0X	
HAU	44.81	48	eP	54 31.10	-0.5	
	0.9s	4.90nm		4.4mb		
CDF	45.49	47	eP	54 36.80	-0.2	
	0.9s	4.90nm		4.5mb		
ZOBO	48.40	211	P	55 01.00	0.2	
	1.0s	7.00nm		4.7mb		
Z	20s	0.12um		3.9Msz		
		LR	09 40.00			
LPB	48.62	211	P	55 02.00	-0.3	
FFC	50.00	320	eP	55 13.00	1.0	
	0.8s	11.00nm		4.9mb		
NB2	50.61	31	P	55 16.80	0.2	
	1.3s	5.70nm		4.4mb		
HFS	51.56	33	eP	55 23.20	-0.5	
	0.5s	1.00nm		4.0mb		
YKA	57.53	329	eP	56 06.00	-1.4	
	0.9s	3.10nm		4.3mb		
MLR	58.19	51	eP	56 13.00	0.6	
		e	15 38.50			
MBC	60.72	345	eP	56 30.50	1.3	
	1.1s	7.00nm		4.7mb		
BCAO	64.02	98	iPd	56 52.00	-0.2	
	0.7s	6.00nm		4.9mb		
INK	65.16	336	eP	56 58.00	-0.8	

S.D. = 0.9 on 21 of 22 obs.

? JAN 27, 1991 14h 07m 05.92± 5.06s
37.177 N ±36.5km 20.809 E ±45.8km
DEPTH = 10.0km (geophysicist)
IONIAN SEA (399)
MD 3.2 (ATH).

ITM	0.89	89	ePg	07 18.00	-5.0X	
VLS	1.01	350	ePg	07 25.80	0.7	
			eSg	07 40.50		
VLI	1.77	104	ePg	07 36.80	0.1	
EVR	1.91	24	ePn	07 39.00	0.1	
OHR	3.93	360	e(Pn)	08 06.70	-0.9	

S.D. = 1.2 on 4 of 5 obs.

? JAN 27, 1991 14h 25m 11.18± 3.87s
3.077 N ±10.8km 75.365 W ±33.5km
DEPTH = 33.0km (normol)
COLOMBIA (103)
MD 3.6 (UVC).

DIAC	0.86	284	iPd	25 25.85	-1.2	
SILC	1.05	248	iPc	25 29.18	-0.8	
			eS	25 44.50		
BUGC	1.20	312	eP	25 31.62	-0.3	
			eS	25 49.20		
PURC	1.25	233	ePc	25 33.04	0.2	
			eS	25 51.40		
HOOC	1.33	287	iPd	25 33.85	0.1	
			eS	25 53.00		
SALC	1.33	266	ePc	25 34.76	1.0	
			eS	25 54.70		
CLMC	1.44	304	iPd	25 35.18	-0.2	
HOBC	1.48	329	eP	25 36.18	0.2	
ANCC	1.56	286	iPd	25 37.89	0.9	
			eS	25 59.90		

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

? JAN 27, 1991 14h 45m 59.94± 1.02s
36.985 N ±10.1km 29.476 E ± 7.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.2 (ISK).

ELL	0.42	124	iPg	46 08.70	0.2	
YER	0.97	279	ePn	46 18.20	-0.2	
			iSg	46 33.20		
BCK	1.01	62	ePn	46 18.70	-0.4	
KHL	1.34	2	ePn	46 25.00	0.4	

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

• JAN 27, 1991 15h 34m 07.10± 2.15s
43.433 N ±24.8km 136.094 E ±12.1km
DEPTH = 350.5 ± 31.8 km
4.0mb (7 obs.)
EASTERN SEA OF JAPAN (223)

MAT	7.07	166	eP	35 51.00	0.0	
BJI	15.25	264	eP	37 26.50	-0.2	
	0.7s	7.00nm		4.1mb		
GUN	42.98	266	P	41 35.20	0.3	
	0.5s	15.00nm		4.5mb		
KKN	43.49	266	P	41 39.00	0.3	
PKI	43.52	266	P	41 39.60	0.5	
DMN	43.72	266	P	41 40.60	0.0	
GKN	43.84	267	P	41 41.20	-0.2	
GBA	58.09	258	Pd	43 26.20	-0.7	
	0.5s	2.40nm		3.9mb		
YKA	60.33	30	eP	43 41.20	-0.4	
	0.5s	0.70nm		3.4mb		
HFS	66.56	333	eP	44 21.50	-0.3	
	0.4s	1.40nm		4.0mb		
NB2	66.69	334	P	44 22.80	0.2	
	0.5s	1.10nm		3.8mb		
FFC	70.46	31	eP	44 46.00	0.5	
	0.7s	6.00nm		4.4mb		

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

• JAN 27, 1991 16h 02m 04.75± 0.71s
13.724 N ± 8.2km 144.828 E ±12.8km
DEPTH = 95.9 ± 6.3 km
4.9mb (5 obs.)
MARIANA ISLANDS (216)
Felt (IV) on Guom.

PJG	0.14	165	iP	02 19.40	-0.1	
GUA	0.20	156	iPd	02 19.40	-0.3	
			eS	02 29.30		
MAT	23.48	347	eP	07 07.00	0.4	
TIY	37.40	316	Pc	09 12.20	2.0	
XAN	38.28	308	P	09 19.00	1.4	
ASPA	38.67	196	iPd	09 21.10	0.3	
	0.5s	15.40nm		5.1mb		
DZM	41.41	149	iPc	09 44.50	1.0	
BRS	41.59	169	iPc	09 46.00	1.2	
MBL	42.48	216	eP	09 52.80	0.7	
	0.4s	8.00nm		4.9mb		
LZH	42.91	309	eP	09 56.50	0.8	
	2.0s	21.00nm		4.6mb		
WARB	43.43	204	iPd	10 01.30	1.4	
	0.5s	29.00nm		5.4mb		
NNT	43.88	274	eP	10 06.70	3.1X	
FORR	47.15	200	eP	10 29.50	0.2	
MRWA	50.97	213	eP	10 58.00	-0.7	
BAL	51.72	211	eP	11 04.00	-0.3	
LSA	51.90	297	P	11 06.30	-0.1	
KLB	52.01	210	eP	11 05.00	-1.5	
MUN	53.08	211	eP	11 13.00	-1.4	
GUN	56.40	294	P	11 39.10	-0.1	
PKI	56.81	294	P	11 41.20	-0.9	
KKN	56.93	294	P	11 41.80	-1.0	
WMO	57.02	314	P	11 44.00	1.0	
GKN	57.50	295	P	11 46.00	-0.7	
YKA	82.76	27	eP	14 17.20	-1.9	
	0.5s	0.40nm		3.6mb X		
TNP	87.78	51	eP	14 44.10	-0.7	
	0.9s	3.52nm		4.4mb		
KIC	143.80	302	PKP	21 28.90	-2.4X	
TIC	143.87	302	PKP	21 29.80	-1.6	
LIC	144.11	302	PKP	21 30.00	-1.8	
ZOBO	148.09	99	PKP	21 40.00	1.0	
LPB	148.11	99	PKP	21 43.00	4.2X	
CNCB	148.22	100	PKP	21 41.00	1.8	

S.D. = 1.2 on 28 of 31 obs.

? JAN 27, 1991 16h 46m 40.18± 0.96s
26.728 N ±13.3km 44.550 W ±24.1km
DEPTH = 10.0km (geophysicist)
4.6mb (5 obs.)
NORTH ATLANTIC RIDGE (403)

ZOBO	48.49	211	P	55 26.00	0.1	
Z	20s	0.09um		3.7Msz		
		LR	10 40.00			
LPB	48.71	211	(P)	55 26.00	-1.4	
CNC8	48.90	210	P	55 30.00	1.0	
KHC	49.65	47	eP	55 34.30	0.4	
FFC	49.93	320	eP	55 37.00	1.1	
	1.0s	13.00nm		4.9mb		
BW06	54.48	305	eP	56 11.50	1.0	
	1.0s	3.00nm		4.3mb		
YKA	57.46	329	eP	56 29.30	-2.0	
	0.9s	2.30nm		4.2mb		
NEW	59.22	312	eP	56 46.10	2.3X	
	1.1s	5.56nm		4.6mb		
BCAO	64.02	99	iPc	57 22.40	5.7X	
	0.7s	6.00nm		4.9mb		
INK	65.09	336	eP	57 22.00	-0.7	
FBA	71.51	334	eP	58 03.20	0.4	

S.D. = 1.3 on 9 of 11 obs.

• JAN 27, 1991 17h 05m 04.47± 0.66s
7.293 S ± 8.8km 129.287 E ±15.1km
DEPTH = 202.8 ± 8.2 km
4.9mb (6 obs.)
BANDA SEA (280)

AAI	3.74	343	ePd	06 02.00	-1.7	
MTN	5.81	162	iPd	06 30.00	0.0	
KNA	8.42	183	iPd	07 02.90	-1.2	
	0.2s	110.00nm		5.8mb		
			eS	08 32.00		
MBL	16.54	213	eP	08 46.00	-0.6	
			eS	11 40.00		
QIS	16.54	144	iPc	08 47.00	0.3	
			e	11 44.00		
ASPA	16.87	165	iPd	08 52.10	1.5	
	0.5s	218.50nm		5.8mb		
			iS	11 51.10		
WARB	18.95	187	iPc	09 25.10	12.4X	
			eS	12 43.00		
CTA	20.79	129	eP	09 30.00	-1.2	
CHG	39.60	311	eP	12 18.90	1.0	
CHTO	39.60	311	eP	12 18.90	1.0	
	0.9s	8.53nm		4.3mb		
GUN	54.61	312	P	14 14.60	-0.3	
PKI	54.78	311	P	14 15.60	-0.5	
	0.6s	10.00nm		4.7mb		
KKN	54.99	311	P	14 17.20	-0.3	
	0.6s	14.00nm		4.9mb		
DMN	55.03	311	P	14 17.60	-0.2	
GBA	55.51	292	Pc	14 21.90	0.9	

27d 17h

1.0s 3.00nm 4.0mb

GKN	55.59	311	P	14 21.40	-0.3
YKA	108.32	26	ePKP	23 11.70	2.0
	0.6s		0.20nm		
ZST	110.14	319	ePdiff	19 04.70	-8.1X
CNCB	150.59	145	PKP	24 35.00	5.5X
LPB	150.74	144	(PKP)	24 33.00	3.5X
ZOBO	150.93	144	PKP	24 35.00	5.0X

S.D. = 1.2 on 16 of 21 obs.

JAN 27, 1991 17h 37m 09.35± 0.72s
35.777 N ± 8.0km 27.237 E ± 6.2km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)
MD 4.0 (ATH).

ARG	0.84	58	ePg	37 25.90	0.3
NPS	1.42	249	ePb	37 37.00	1.8
YER	1.60	32	iPn	37 36.20	-1.5
APE	1.89	314	ePb	37 41.00	-0.9
KSL	1.93	79	ePn	37 45.00	2.4
SMG	1.95	351	ePg	37 44.00	1.2
ELL	2.37	65	iPn	37 50.70	1.7
VAM	2.50	262	ePg	37 57.00	6.3X
IZM	2.62	0	ePn	37 51.00	-1.4
KHL	3.13	35	ePn	37 59.60	-0.1
BCK	3.18	57	eP	38 03.00	2.6X
VLI	3.60	286	ePn	38 06.00	-0.3
PPCY	4.27	101	eP	38 15.00	-0.8
CSS	5.05	98	eP	38 26.80	-0.1
BBTK	5.96	45	eP	38 40.00	0.1
ADI	7.13	110	eP	38 57.00	0.8
DSI	7.98	119	eP	39 07.00	-1.1
			eS	40 35.00	
PRNI	8.47	128	eP	39 13.00	-2.0
			eS	40 47.00	

S.D. = 1.4 on 16 of 18 obs.

& JAN 27, 1991 18h 02m 15.22s
63.031 N 150.432 W
DEPTH = 106.2km
CENTRAL ALASKA (1)
<AEIC>.

HUR	0.37	98	iP	02 30.83	-0.3
			eS	02 42.40	
CUT	0.63	173	iP	02 32.75	-0.1
RND	0.81	62	iP	02 34.23	-0.3
			eS	02 47.74	
MCK	0.97	43	eP	02 35.62	-0.5
SKT	1.17	206	iP	02 37.79	-0.5
BWN	1.22	20	eP	02 38.76	-0.1
PWA	1.41	169	eP	02 40.91	-0.1
GHO	1.45	150	eP	02 41.52	-0.1
			eS	03 01.61	
PLRM	1.57	157	eP	02 42.18	-0.8
			eS	03 03.25	
PMR	1.57	157	ePc	02 42.90	-0.1
SUA	1.58	185	eP	02 43.15	-0.2
NEA	1.66	21	eP	02 43.27	-1.0
			eS	03 03.82	
PMS	1.84	167	eP	02 45.98	-0.5
CCB	2.00	34	eP	02 47.29	-1.2
BGL	2.00	208	eP	02 48.73	0.1
SPU	2.01	203	eP	02 47.94	-0.7
CKL	2.05	207	eP	02 49.33	0.1
RDS	2.07	28	eP	02 48.12	-1.3
HDA	2.07	47	eP	02 48.46	-1.0
MDM	2.17	26	iP	02 49.80	-0.9
TOA	2.18	113	eP	02 51.70	0.7
FBA	2.21	31	ePd	02 50.90	-0.3
PAX	2.27	89	eP	02 51.94	-0.2
SDG	2.30	101	eP	02 52.42	-0.1
NKA	2.33	190	eP	02 54.80	2.0
SLKM	2.53	178	eP	02 54.92	-0.7
TTA	2.55	270	ePd	02 55.90	0.0
KLU	2.61	124	eP	02 55.10	-1.6
RDT	2.64	202	eP	02 56.96	-0.1
GLI	2.67	142	iP	02 55.84	-1.6
VZW	2.69	136	eP	02 56.02	-1.7
VLZ	2.71	133	eP	02 57.25	-0.7
RDN	2.76	205	eP	02 58.59	-0.1
REF	2.77	204	eP	02 59.50	0.6
SEW	2.98	170	eP	03 00.29	-1.2
KNIM	2.98	153	eP	02 59.09	-2.5
SVW	3.11	234	eP	03 02.80	-0.6
BRLK	3.29	184	eP	03 04.90	-0.9
IMA	3.36	337	ePd	03 05.70	-1.1
GLB	3.48	114	eP	03 06.96	-1.5
CNPM	3.54	187	eP	03 08.26	-0.9
PDB	3.72	211	eP	03 11.49	-0.2

42 obs. associated

• JAN 27, 1991 18h 02m 18.12± 2.14s
36.715 N ±12.9km 141.706 E ±18.3km
DEPTH = 55.8 ± 11.8 km
4.0mb (3 obs.)
NEAR EAST COAST OF HONSHU, JAPAN(228)

KAKJ	1.34	248	P	02 39.80	-1.0
			S	03 02.70	
YAMJ	1.97	318	eP	02 48.50	-1.2
			eS	03 19.00	
NIIJ	2.23	284	P	02 53.70	0.4
			S	03 28.10	
CHJJ	2.29	254	P	02 53.20	-0.9
			S	03 27.70	
OFUJ	2.36	359	eP	02 50.50	-4.6X
			eS	03 21.60	
MAT	2.82	268	iPc	03 02.30	0.6
			eS	03 42.00	
MTMJ	3.14	269	P	03 07.30	0.9
IIDJ	3.31	249	P	03 09.50	0.8
AOMJ	3.98	345	eP	03 18.40	0.4
GUN	47.42	276	P	10 50.00	0.6
PKI	47.94	276	P	10 52.60	-0.8
KKN	47.95	276	P	10 53.60	0.2
DMN	48.17	276	P	10 55.20	0.1
GKN	48.37	277	P	10 56.00	-0.5
WRA	56.78	188	P	12 05.00	6.2X
	0.8s		1.30nm	4.0mb	
ASPA	60.51	188	eP	12 31.70	7.0X
	1.5s		3.90nm	4.3mb	
YKA	63.97	30	eP	12 47.60	0.3
	0.6s		0.30nm	3.5mb	

S.D. = 0.8 on 14 of 17 obs.

• JAN 27, 1991 18h 16m 32.58± 1.77s
19.948 S ±14.6km 168.332 E ±12.5km
DEPTH = 30.5 ± 10.9 km
4.4mb (5 obs.)
VANUATU ISLANDS (186)

PVC	2.20	359	iP	17 08.00	0.3
			iS	17 37.00	
BKM	2.27	358	iP	17 08.50	-0.2
DZM	2.75	220	iPc	17 11.00	-4.6X
			iS	17 48.00	
CTA	20.75	266	iPc	21 13.50	0.1
	1.2s		26.56nm	4.5mb	
CNB	22.67	224	eP	21 33.00	0.3
CMS	23.25	236	eP	21 39.00	0.6
ASPA	32.13	257	iPc	22 57.30	-2.5
	0.7s		7.60nm	4.7mb	
			e	23 08.50	
			i	23 19.50	
CHG	78.17	295	eP	28 32.20	1.1
CHTO	78.17	295	eP	28 32.20	1.1
	1.0s		2.50nm	4.2mb	
WDC	87.96	45	eP	29 21.20	0.3
CMB	88.26	48	eP	29 22.40	0.0
FRI	88.28	50	eP	29 22.30	-0.1
CLC	89.30	51	eP	29 27.00	-0.4
GSC	89.67	52	eP	29 29.00	-0.2
GLA	90.24	55	eP	29 32.00	0.1
TNP	90.53	49	eP	29 32.80	-0.5
	1.0s		2.75nm	4.5mb	
YKA	101.69	28	ePdiff	30 23.30	0.0
	0.4s		0.10nm	3.8mb	
BRG	143.12	333	ePKP	36 05.40	0.3
	1.6s		20.00nm		
MOX	144.26	334	e(PKP)	36 04.00	-3.1X
SKO	144.45	316	ePKP	36 05.70	-2.0
GRF	145.16	334	ePKPc	36 09.00	0.4
OHR	145.27	315	ePKP	36 08.00	-1.2
ABH	146.44	337	ePKP	36 12.32	1.5
BCAO	146.79	246	iPKPc	36 13.30	0.9
	0.6s		8.00nm		
			id	36 27.20	
CDF	147.75	336	ePKP	36 16.10	3.1X
	0.9s		3.30nm		
BSF	148.41	336	ePKP	36 17.60	3.5X
HAU	148.44	337	ePKP	36 17.70	3.7X
	0.8s		5.35nm		
LOR	149.95	339	ePKP	36 21.50	5.1X
	1.3s		21.65nm		
SSF	150.25	339	ePKP	36 22.20	5.4X
	1.1s		12.20nm		
LPL	150.32	333	ePKP	36 23.00	5.7X
	0.8s		6.05nm		
LPG	150.32	333	ePKP	36 23.10	5.7X
	0.8s		5.35nm		
SMF	150.50	338	ePKP	36 22.50	5.3X
AVF	150.54	339	ePKP	36 22.80	5.6X
	1.0s		6.00nm		
LPF	150.69	345	ePKP	36 23.20	5.8X
	0.7s		6.60nm		
BGF	150.92	339	ePKP	36 23.70	5.9X
MAF	151.30	339	ePKP	36 23.80	5.4X
TCF	151.36	340	ePKP	36 24.70	6.2X
	1.0s		8.00nm		
LSF	151.61	341	ePKP	36 24.90	6.0X
MFF	151.79	343	ePKP	36 25.60	6.5X

S.D. = 1.0 on 22 of 39 obs.

• JAN 27, 1991 19h 05m 13.25± 0.90s
1.168 N ± 9.6km 124.369 E ±16.2km
DEPTH = 33.0km (normal)
5.0mb (1 obs.) 4.1Msz (1 obs.)
MINAHASSA PENINSULA (265)

MNI	0.54	60	ePc	05 00.00	-24.5X
MKS	8.01	218	iPc	07 11.40	1.1
MBL	22.63	191	eP	10 11.00	-1.7
IPM	23.56	279	ePd	10 22.10	0.3
QIS	26.25	146	iPd	10 48.10	0.7
			e	12 45.00	
			e	14 06.00	
NNT	26.92	296	eP	10 52.20	-1.4
CHG	30.48	307	eP	11 27.00	1.4
LZH	39.62	334	eP	12 44.00	0.2
	1.5s		48.00nm	5.0mb	
Z	18s		0.24um	4.1Msz	
			pP	12 53.00	30kmX
GUN	45.41	309	P	13 30.40	-0.9
PKI	45.62	309	P	13 33.60	0.7
KKN	45.82	309	P	13 34.20	-0.2
DMN	45.87	309	P	13 35.00	0.2
GKN	46.42	309	P	13 39.00	-0.1
HYB	47.83	293	eP	13 50.00	-0.2
CNCB	160.27	143	ePKP	25 30.00	18.0X

S.D. = 1.0 on 13 of 15 obs.

• JAN 27, 1991 19h 29m 37.83± 1.45s
6.931 S ±12.0km 154.889 E ±16.1km
DEPTH = 108.7 ± 12.4 km
4.9mb (6 obs.)
SOLOMON ISLANDS (193)

RAB	3.84	315	e(P)	30 36.00	0.1
			iS	31 27.00	
PMG	8.04	252	eP	31 24.50	-9.1X
DZM	18.73	145	iPc	33 51.00	-0.1
CMS	25.86	198	eP	35 01.00	0.0
ASPA	26.14	228	eP	35 14.40	10.7X
	1.6s		5.40nm		
CHTO	60.78	296	eP	39 41.10	0.2
	1.0s		2.00nm	4.1mb	
LZH	64.20	316	eP	40 02.50	-1.0
	1.5s		28.00nm	5.0mb	
GUN	74.99	301	P	41 09.80	0.0
	0.6s		16.00nm	5.0mb	
PKI	75.30	301	P	41 12.20	0.6
KKN	75.47	301	P	41 12.40	0.0
	0.4s		9.00nm	4.9mb	
DMN	75.57	301	P	41 13.20	0.2
	0.6s		24.00nm	5.2mb	
GKN	76.08	301	P	41 15.50	-0.2
GBA	79.53	285	P	41 48.00	13.4X
	0.5s		1.50nm		
YKA	96.33	28	eP	42 55.30	0.3
	0.4s		0.50nm	4.4mb	

S.D. = 0.5 on 11 of 14 obs.

• JAN 27, 1991 19h 33m 56.08± 0.68s
26.577 N ±10.4km 44.627 W ±18.4km
DEPTH = 10.0km (geophysicist)
4.9mb (3 obs.)
NORTH ATLANTIC RIDGE (403)

SIV	45.23	203	P	42 15.50	0.0

ZOBO	48.32	211	P	42	41.00	0.5
	0.9s		6.06nm			4.7mb
LPB	48.54	211	eP	42	41.00	-1.0
CNCB	48.73	210	P	42	44.00	0.4
FFC	50.00	320	eP	42	53.00	0.6
	1.1s		15.00nm			4.9mb
MBC	60.76	345	eP	44	10.00	0.1
BCAO	64.07	98	ePd	44	33.00	0.1
	0.9s		9.00nm			5.0mb
			ic	44	40.10	
INK	65.20	336	eP	44	38.50	-0.8
	S.D. = 0.7		on	8	of	8 obs.

? JAN 27, 1991 19h 42m 30.78± 3.67s
22.599 S ±31.5km 179.805 W ±32.9km
DEPTH = 660.0 ± 29.5 km
4.9mb (5 obs.)
SOUTH OF FIJI ISLANDS (171)

DZM	12.74	270	iPc	45	17.00	0.3
WLZ	15.70	194	P	45	45.10	0.7
MNG	18.40	191	P	46	07.80	-1.6
THZ	20.07	196	P	46	28.10	3.6X
BRS	25.28	253	iPc	47	10.90	0.0
CNB	29.68	238	iPc	47	50.00	1.4
CMS	31.76	246	iPd	48	06.60	0.6
TOO	33.32	235	iPc	48	20.40	1.4
	0.6s		28.00nm			5.1mb
ASPA	42.44	259	iPd	49	32.00	-0.7
	0.7s		37.80nm			5.0mb
WRA	42.69	265	P	49	32.00	-2.7
	0.3s		20.20nm			5.0mb
FORR	46.90	248	iPc	50	16.30	9.6X
WARB	48.62	254	iPc	50	21.00	1.4
KLB	55.66	246	eP	51	09.00	-0.5
MBL	55.69	259	eP	51	09.10	-0.8
	0.3s		10.00nm			4.5mb
MEKA	55.74	252	eP	51	09.10	-1.1
NWAO	55.94	245	eP	51	12.00	0.5
BAL	56.69	247	eP	51	16.00	-0.5
MUN	56.92	246	eP	51	18.00	-0.1
CMG	89.39	291	eP	54	32.00	11.2X
CMTO	89.39	291	eP	54	22.10	1.3
	0.9s		7.46nm			4.5mb
NUR	138.44	342	ePdiff	57	43.00	-15.7X
LWI	142.74	232	iPKPc	00	53.80	0.2
KSP	149.14	340	iPKP	01	07.70	5.1X
CLL	149.66	344	iPKPc	01	08.60	5.3X
PRU	150.43	341	ePKP	01	10.50	6.0X
	S.D. = 1.2		on	18	of	25 obs.

JAN 27, 1991 19h 50m 48.63± 0.29s
39.610 N ± 3.0km 23.803 E ± 2.4km
DEPTH = 16.4 ± 2.7 km
4.2mb (5 obs.)
AEGEAN SEA (365)
ML 4.2 (ATH).

NEO	0.54	236	eP	50	57.50	-1.8
PLG	0.81	340	eP	51	03.50	-0.4
LIT	1.12	296	iPd	51	08.00	-1.2
THE	1.21	328	iPc	51	10.00	-0.6
SOH	1.26	344	iPc	51	11.20	-0.2
AGG	1.28	243	iPc	51	10.30	-1.5
SRS	1.51	354	iPc	51	15.10	0.1
ATH	1.64	182	eP	51	16.80	0.0
EVR	1.70	247	eP	51	16.80	-1.0
KNT	1.70	336	iPc	51	17.70	0.0
KZN	1.71	295	eP	51	17.00	-1.0
PRK	1.95	100	eP	51	22.00	0.7
VAY	1.95	332	iPn	51	21.00	-0.4
	1.2s	1028.00nm				
			iSn	51	46.20	
			iSg	51	53.20	
			LQ	51	53.50	
EZN	1.96	83	iPn	51	22.20	0.7
RDO	2.03	40	eP	51	22.30	-0.2
RZN	2.19	18	iPc	51	25.00	0.0
FNA	2.20	303	iPc	51	24.10	-0.9
KKB	2.32	347	iPc	51	26.00	-0.7
KDZ	2.38	31	iPc	51	27.00	-0.5
PLD	2.58	15	iPc	51	32.00	1.6
OHR	2.74	304	iPn	51	32.00	-0.8
	1.1s	631.00nm				
			i(Sn)	52	10.50	
			Lg	52	36.00	
DIM	2.77	28	P	51	34.00	1.0
ITM	2.84	212	ePn	51	34.50	0.4
APE	2.88	151	ePn	51	34.00	-0.7
VLS	2.89	241	eP	51	35.00	0.3
PGB	2.95	5	ePc	51	35.00	-0.7
IZM	2.95	113	iPn	51	37.10	1.4
SKO	2.96	324	iPn	51	35.40	-0.4
			iPb	51	38.90	
			i	52	02.40	
			i	52	09.80	
			i	52	22.00	
VTS	3.01	352	iPc	51	37.00	0.4
KEK	3.09	273	ePb	51	39.00	1.4
EDC	3.21	75	iPn	51	41.00	1.7
BNT	3.25	75	iPn	51	39.00	-0.9
JMB	3.54	35	ePd	51	44.00	-0.1
KCT	3.56	78	ePn	51	45.00	0.7
DST	3.73	89	iPn	51	47.40	0.6
DMK	3.73	52	iPn	51	46.50	-0.2
PVL	3.78	17	iPc	51	45.00	-2.4X
PVY	4.15	317	ePn	51	53.00	0.2
VAM	4.21	176	ePn	51	53.80	0.3
ITU	4.25	68	eP	51	57.00	2.9
ISK	4.27	68	ePn	51	53.00	-1.4
YLV	4.38	76	iPn	51	55.00	-1.0
IVA	4.39	319	ePn	51	56.30	0.1
TTG	4.44	311	ePn	51	57.30	0.5
LCI	4.55	281	P	51	58.50	0.1
NPS	4.57	161	ePn	51	58.50	-0.2
HRT	4.65	73	ePn	52	03.00	3.1X
NKY	4.83	313	ePn	52	04.00	1.5
HCY	4.91	307	ePn	52	04.50	1.0
ALT	4.92	94	eP	52	04.00	0.3
PLE	4.98	320	ePn	52	04.60	0.1
BUC1	5.02	19	eP	52	32.00	27.1X
GPA	5.05	80	eP	52	06.50	1.1
DRA	5.08	4	iPd	52	06.00	0.3
BUC	5.09	19	eP	52	27.00	21.0X
BRY	5.15	311	ePn	52	06.50	-0.4
BRT	5.21	286	P	52	09.50	1.8
PSN	5.23	37	iPd	52	07.00	-0.9
ORI	5.68	277	P	52	16.50	2.2
MTUR	5.69	9	eP	52	19.00	4.5X
COZ	5.72	4	eP	52	18.00	3.0X
TDS	5.76	273	P	52	19.00	3.5X
BEO	5.77	336	ePn	52	35.00	19.5X
			e(Sg)	53	58.00	
GZR	5.83	353	ePd	52	20.50	4.1X
ISR	5.88	19	eP	52	21.50	4.3X
TLB	5.89	31	eP	52	20.00	2.9X
TNR	6.05	3	ePd	52	18.00	-1.5
MLR	6.09	14	eP	52	26.00	5.9X
BZS	6.22	346	ePc	52	23.50	1.7
SOI	6.24	258	P	52	23.90	1.7
CFR	6.43	29	eP	52	34.00	9.1X
CVO	6.45	15	eP	52	30.00	4.8X
SGO	6.58	281	P	52	27.90	0.8
VRI	6.62	18	ePd	52	32.00	4.5X
ATN	6.67	260	P	52	30.40	2.1
BBTK	6.91	85	eP	52	38.00	6.2X
SDI	7.88	289	P	52	48.00	2.7X
BMR	8.06	359	ePd	52	55.00	7.3X
PTJ	8.53	320	eP	52	51.90	-2.5X
FVI	10.65	315	P	53	24.00	0.5
CTI	10.99	310	P	53	27.00	-1.3
NB2	22.83	344	P	55	50.80	-0.9
	0.6s		1.10nm			3.5mb
EKA	23.86	320	P	56	05.00	3.4X
	0.7s		3.80nm			4.1mb
IFR	23.96	264	iP	56	05.50	2.4
BCAO	35.34	189	ePc	57	44.00	-1.2
	0.3s		10.00nm			5.2mb
			id	57	54.40	
KIC	41.90	225	P	58	38.00	-1.8
GKN	50.99	84	P	59	51.40	-0.4
DMN	51.55	84	P	59	56.00	-0.2
KKN	51.59	83	P	59	55.60	-0.8
GUN	51.99	83	P	59	58.40	-1.2
FRB	56.31	328	eP	00	29.00	-1.4
CHG	66.97	84	eP	01	42.10	-0.7
CHTO	66.97	84	eP	01	42.10	-0.7
	0.9s		4.48nm			4.6mb
YKA	72.89	341	eP	02	16.50	-1.7
	0.8s		1.00nm			3.9mb
	S.D. = 1.1		on	74	of	94 obs.

JAN 27, 1991 19h 53m 17.76± 0.91s
47.870 N ± 9.1km 16.440 E ± 6.2km
DEPTH = 10.0km (geophysicist)
AUSTRIA (546)
ML 2.9 (KBA), 2.7 (BRA). Felt (IV) at Ebenfurth.

VKA	0.40	348	iPgd	53	26.00	0.0
			iSg	53	31.60	
ZST	0.55	54	ePg	53	28.90	0.0
	0.4s		0.12nm			
			i	53	30.60	
			iSg	53	38.70	
SRO	1.26	92	e(Pn)	53	41.30	0.1
			i	53	43.00	
			i(Sg)	53	58.70	
BUD	1.79	102	e(P)	53	53.00	4.1X
KBA	2.24	250	iPgc	53	55.50	-0.2
			i	53	58.20	
			iSg	54	26.50	
KHC	2.28	305	ePn	53	51.00	-5.1X
			Pg	53	57.00	
			Sn	54	20.00	
			Sg	54	26.30	
PRU	2.46	330	ePn	53	58.00	-0.6
			Pg	54	02.00	
			e	54	09.50	
			Sn	54	26.50	
			Sg	54	31.50	
MOX	4.21	313	ePn	54	24.00	0.7
			e	55	26.00	
	S.D. = 0.5		on	6	of	8 obs.

JAN 27, 1991 20h 03m 45.89± 0.73s
39.591 N ± 5.4km 23.691 E ± 6.7km
DEPTH = 9.5 ± 3.9 km
AEGEAN SEA (365)

PAIG	0.34	358	iPc	03	53.12	0.3
			eS	03	58.08	
NEO	0.46	232	ePg	03	55.00	-0.2
OUR	0.78	17	iPc	04	01.17	0.1
			eS	04	13.16	
PLG	0.80	347	ePg	04	01.00	-0.6
LIT	1.06	299	ePc	04	05.68	-0.2
			iS	04	20.68	
THE	1.18	332	eP	04	08.20	0.3
			eS	04	24.08	
AGG	1.20	242	ePc	04	08.12	-0.2
			eS	04	25.68	
SOH	1.26	348	iPc	04	09.25	-0.1
			iS	04	26.24	
SRS	1.53	357	eP	04	12.88	-0.4
			eS	04	31.96	
EVR	1.61	246	ePb	04	15.00	0.4
KNT	1.68	339	iP	04	15.78	0.2
			eS	04	38.28	
GRG	1.68	325	eP	04	15.64	0.1
			eS	04	37.16	
VAY	1.93	334	ePn	04	19.30	0.2
RDO	2.10	42	ePn	04	20.00	-1.5
FNA	2.14	305	ePc	04	22.40	0.2
ALN	2.22	53	ePc	04	24.72	1.3
	S.D. = 0.7		on	16	of	16 obs.

JAN 27, 1991 20h 13m 30.52± 0.70s
39.571 N ± 5.0km 23.767 E ± 5.4km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
ML 3.3 (ATH).

PAIG	0.36	349	iPc	13	38.25	0.3
			eS	13	43.56	
NEO	0.50	238	ePb	13	40.50	-0.1
OUR	0.78	12	ePc	13	46.40	0.7
			eS	13	57.64	
PLG	0.84	343	ePb	13	46.20	-0.5
LIT	1.12	299	eP	13	51.00	-0.5
			eS	14	05.72	
THE	1.23	330	ePc	13	53.20	-0.1
			eS	14	09.24	
AGG	1.24	244	eP	13	53.21	-0.4
			eS	14	08.40	
SOH	1.29	346	ePc	13	54.64	0.2
			eS	14	11.60	
SRS	1.55	355	iP	13	57.92	-0.3
			eS	14	20.88	
ATH	1.60	181	ePb	14	03.00	4.1X
EVR	1.66	247	ePn	14	00.00	0.2

27d 20h

KZN	1.70	296	ePb	14 00.00	-0.5
KNT	1.72	338	eP	14 00.96	0.3
			eS	14 23.96	
GRG	1.73	323	eP	14 00.96	0.1
			eS	14 23.32	
PRK	1.97	99	ePn	14 07.00	2.8X
VAY	1.97	333	ePn	14 04.70	0.4
EZN	1.99	82	ePn	14 00.00	-4.5X
RDO	2.07	40	ePn	14 05.00	-0.8
ALN	2.19	52	ePc	14 07.64	0.2
FNA	2.20	304	ePc	14 06.84	-0.8
IGT	2.66	270	eP	14 15.76	1.6

S.D. = 0.6 on 18 of 21 obs.

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* JAN 27, 1991 20h 38m 12.13± 0.88s
22.738 S ± 9.1km 171.513 E ±13.9km
DEPTH = 33.0km (normal)
5.3mb (6 obs.)
LOYALTY ISLANDS REGION (189)

DZM	4.74	277	iPc	39 23.00	-0.2
			iS	40 08.50	
PVC	5.81	328	iPd	39 39.50	1.2
BKM	5.90	328	iP	39 39.00	-0.6
BRS	17.59	251	iP	42 21.50	5.0X
RMO	21.02	255	iPd	42 57.00	1.6
	1.0s	118.00nm		5.2mb	
CNB	23.01	232	iPd	43 20.90	5.7X
	0.9s	78.00nm		5.2mb	
CMS	24.42	244	iPc	43 32.00	3.1X
	1.1s	125.00nm		5.4mb	
TOO	26.81	231	iPc	43 55.00	3.7X
ASPA	34.52	261	iPd	44 58.60	-1.0
	0.8s	66.80nm		5.6mb	
FORR	39.39	249	iPc	45 41.20	0.7
MBL	47.76	262	eP	46 47.70	-0.6
MEKA	48.02	254	eP	46 49.90	-0.4
KLB	48.23	247	eP	46 52.00	0.2
NWAO	48.61	246	eP	46 55.00	0.3
BAL	49.20	249	eP	46 59.00	-0.3
MUN	49.52	247	eP	47 02.00	0.2
CHG	82.02	294	P	50 31.50	0.7
CHTO	82.02	294	eP	50 31.50	0.7
	0.8s	3.84nm		4.5mb	
AIA	82.53	159	eP	50 42.90	10.3X
LZH	86.63	311	eP	50 54.00	0.1
	1.0s	18.00nm		5.3mb	
GUN	96.70	297	PKP	51 40.60	-0.6
PKI	96.96	297	PKP	51 41.80	-0.5
KKN	97.15	297	PKP	51 42.40	-0.6
DMN	97.23	297	PKP	51 42.20	-1.2
GKN	97.76	297	PKP	51 44.60	-1.0
KSP	145.96	332	iPKPc	57 49.60	0.6X
	0.8s	33.00nm			
			e	57 54.00	
			i	58 24.80	
BRG	146.93	334	iPKP	57 53.00	2.4X
	0.9s	12.00nm			
			e	58 27.80	
CLL	146.97	335	iPKPc	57 52.10	1.5
	0.9s	15.00nm			
			e	58 27.00	
EKA	147.21	354	PKP	57 54.00	3.1X
	0.9s	4.30nm			
PRU	147.35	332	PKP	57 53.80	2.5X
			e	58 28.00	
MOX	148.03	336	ePKP	57 56.00	3.6X
			e	58 30.00	
BCAO	148.16	239	iPKPd	57 58.20	4.5X
	0.2s	12.00nm			
			id	58 20.00	
KHC	148.40	332	iPKP	57 56.90	3.8X
WTS	148.50	342	ePKP	57 57.50	4.5X
	0.8s	7.00nm			
SKO	148.51	315	ePKP	57 56.80	3.4X
GRF	148.94	335	ePKP	57 58.40	4.5X
ENN	149.85	342	ePKP	58 01.00	5.9X
	0.8s	6.00nm			
ABH	150.12	339	ePKP	58 01.84	6.2X
SCE	150.81	331	iPKPc	58 02.60	5.6X
	0.5s	66.00nm			
SQTA	150.89	332	iPKPc	58 02.70	5.7X
	0.5s	17.50nm			
			i	58 06.30	
OGA	151.24	332	iPKPc	58 04.70	7.0X
	0.5s	15.00nm			
CDF	151.47	338	ePKP	58 04.00	6.2X
	0.7s	8.80nm			
BSF	152.13	338	ePKP	58 05.30	6.5X
	0.7s	6.60nm			
HAU	152.14	338	ePKP	58 05.40	6.7X
	0.7s	6.60nm			
FLN	153.26	348	ePKP	58 07.60	7.4X
	0.6s	5.40nm			
LDF	153.35	348	ePKP	58 07.60	7.2X
	0.6s	3.60nm			
LOR	153.59	341	ePKP	58 08.70	7.9X
	0.7s	2.75nm			
GRR	153.69	348	ePKP	58 09.00	8.2X
SSF	153.88	341	ePKP	58 09.40	8.2X
	0.7s	1.65nm			
LPF	154.07	349	ePKP	58 09.70	8.4X
	0.6s	3.60nm			
LPL	154.11	335	ePKP	58 10.50	8.7X
	0.9s	3.30nm			
LPG	154.12	335	ePKP	58 10.50	8.6X
	0.9s	4.10nm			
TCF	154.95	342	ePKP	58 11.80	9.2X

S.D. = 0.9 on 21 of 53 obs.

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* JAN 27, 1991 20h 59m 36.17± 0.70s
26.784 N ±10.5km 44.565 W ±17.4km
DEPTH = 10.0km (geophysicist)
4.8mb (5 obs.)
NORTH ATLANTIC RIDGE (403)

ZOBO	48.53	211	P	08 22.00	-0.2
LPB	48.75	211	P	08 23.00	-0.7
CNCB	48.94	210	P	08 26.00	0.7
FFC	49.88	320	eP	08 32.00	0.5
	0.7s	8.00nm		4.8mb	
BW06	54.44	305	eP	09 06.50	0.3
	1.2s	13.01nm		4.8mb	
YKA	57.41	329	eP	09 25.20	-1.7
	1.0s	2.60nm		4.2mb	
NEW	59.17	312	eP	09 40.00	0.5
	1.0s	7.50nm		4.8mb	
MBC	60.57	345	eP	09 49.50	0.8
BCAO	64.05	99	ePc	10 12.90	0.1
	0.6s	7.00nm		5.0mb	
			id	10 18.90	
INK	65.03	336	eP	10 18.00	-0.3

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

% JAN 27, 1991 21h 51m 24.95± 1.19s
46.572 N ± 7.8km 1.122 W ±11.1km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.8 (LDG).

MFF	0.67	87	Pg	51 39.70	1.4
			Sg	51 49.30	
			Sn	51 52.50	
LPF	1.46	2	Pg	51 53.00	1.7
			Sg	52 12.70	
GRR	1.83	6	Pn	51 56.50	-0.1
			Pg	52 00.40	
			Sg	52 22.90	
LSF	1.86	99	Pn	51 56.80	-0.4
			Pg	52 00.80	
			Sn	52 19.80	
			Sg	52 26.20	
LFF	2.09	141	Pg	52 04.80	4.4X
			Sg	52 33.00	
LDF	2.13	18	Pg	52 04.80	3.7X
			Sg	52 32.60	
FLN	2.23	11	Pn	52 01.00	-1.5
			Pg	52 06.20	
			Sg	52 35.30	
RJF	2.24	124	Pg	52 07.90	5.3X
			Sg	52 37.60	
TCF	2.32	96	Pn	52 04.30	0.5
			Pg	52 10.10	
			Sg	52 41.00	
LPO	2.49	139	Pg	52 12.20	6.1X
			Sg	52 45.00	
MAF	2.58	96	Pn	52 07.40	0.0
			Pg	52 15.10	
			Sg	52 48.20	
BGF	2.74	89	Pn	52 09.10	-0.6
			Pg	52 17.30	
			Sg	52 55.00	
CAF	2.77	125	Pn	52 10.60	0.3
			Pg	52 18.20	
			Sn	52 41.30	
			Sg	52 54.50	
AVF	3.09	84	Pn	52 14.40	-0.2
			Sg	53 02.60	
SSF	3.22	80	Pn	52 25.40	8.9X
			Sg	53 07.80	
SMF	3.42	87	Pn	52 18.50	-0.9
			Pg	52 30.40	
			Sg	53 13.30	
LOR	3.48	77	Pn	52 31.60	11.3X
			Sn	53 15.00	
LBF	3.53	81	Pn	52 31.40	10.5X
			Sn	53 18.20	
EPF	3.69	163	Pn	52 23.20	-0.1
			Pg	52 34.50	
			Sg	53 21.30	

S.D. = 1.0 on 12 of 19 obs.

JAN 27, 1991 22h 29m 53.21± 0.62s
38.562 N ± 5.8km 27.491 E ± 7.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.3 (ISK).

IZM	0.24	228	iPg	29 58.20	-0.2
SMG	1.00	211	ePb	30 12.00	-0.1
PRK	1.17	306	ePb	30 15.20	0.1
			eSb	30 31.80	
DST	1.37	40	iPn	30 16.90	-1.4
EZN	1.55	325	iPn	30 22.40	1.5
YER	1.56	156	ePn	30 20.00	-1.0
KHL	1.61	98	iPn	30 24.10	2.2
EDC	1.81	9	ePn	30 24.00	-0.6
KCT	1.81	21	ePn	30 24.90	0.2
BNT	1.82	10	ePn	30 24.00	-0.8
YLV	2.47	35	ePn	30 34.40	0.1

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

JAN 27, 1991 22h 37m 43.40± 0.78s
38.545 N ± 7.0km 27.644 E ± 8.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.3 (ISK).

IZM	0.33	244	iPg	37 49.70	-0.6
DST	1.31	36	iPn	38 06.90	-0.7
KHL	1.49	98	ePn	38 15.00	4.7X
YER	1.50	160	ePn	38 10.80	0.4
EZN	1.64	322	ePn	38 13.00	0.7
EDC	1.81	5	ePn	38 15.00	0.2
BNT	1.82	7	ePn	38 15.00	0.0

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

& JAN 27, 1991 23h 11m 00.45s
57.324 N 142.878 W
DEPTH = 10.0km (geophysicist)
GULF OF ALASKA (15)
<AEIC>.

MID	2.79	321	eP	11 41.27	-4.6
PNL	2.98	36	iP	11 43.03	-5.6
			eS	12 15.66	
HON	3.00	43	eP	11 43.11	-5.7
			eS	12 17.18	
YAH	3.11	10	iP	11 45.43	-5.1
			eS	12 19.85	
BCPM	3.13	31	eP	11 45.18	-5.6
			eS	12 19.92	
TGL	3.44	0	eP	11 49.45	-5.8
MTU	3.65	319	eP	11 51.66	-6.6
BALM	3.73	4	eP	11 53.65	-5.8
CTGM	3.74	12	eP	11 53.99	-5.6
KNIM	3.95	322	eP	11 55.07	-7.3
GLB	4.16	354	eP	11 59.11	-6.3
GLI	4.18	330	eP	11 58.89	-6.7
VZW	4.20	335	eP	11 58.74	-7.2
KLU	4.46	341	eP	12 03.09	-6.6
SLKM	4.97	313	eP	12 09.52	-7.3
PMS	5.21	322	eP	12 14.20	-6.1

16 obs. associated

JAN 27, 1991 23h 23m 19.43± 0.43s
39.549 N ± 4.1km 23.752 E ± 4.5km
DEPTH = 16.4 ± 4.1 km
3.8mb (1 obs.)
AEGEAN SEA (365)
ML 3.5 (ATH).

NEO 0.48 240 iPbc 23 28.70 -0.3
PLG 0.86 344 iPnc 23 34.50 -1.0
ATH 1.58 181 ePb 23 58.50 11.8X
EVR 1.64 248 ePb 23 48.00 0.3
KZN 1.70 297 ePn 23 48.00 -0.6
PRK 1.98 98 ePn 23 54.00 1.5
VAY 1.99 333 iPn 23 53.00 0.3
EZN 2.00 81 ePn 23 49.40 -3.5X
MMB 2.04 359 iPd 23 53.00 -0.5
RDO 2.10 40 ePn 23 54.00 -0.3
RZN 2.26 19 P 23 57.00 0.2
KKB 2.37 348 iPc 23 58.00 -0.2
KDZ 2.45 31 iPd 23 58.00 -1.3
PLD 2.65 15 eP 24 03.00 0.8
OHR 2.74 306 ePn 24 04.00 0.4
DIM 2.84 28 eP 24 05.00 0.1
APE 2.84 150 ePn 24 05.50 0.5
VLI 2.90 193 ePn 24 05.00 -0.7
IZM 2.97 112 ePn 24 05.00 -1.7
SKO 2.99 325 ePn 24 06.40 -0.6
PGB 3.01 6 eP 24 08.00 0.6
VTS 3.07 352 eP 24 09.00 0.8
EDC 3.26 75 ePn 24 11.00 0.1
BNT 3.30 75 ePn 24 13.80 2.3X
JMB 3.62 35 eP 24 16.00 0.1
DST 3.77 88 eP 24 19.90 1.8
DMK 3.80 52 eP 24 17.60 -0.9
PVL 3.85 17 eP 24 17.00 -2.2
YLV 4.43 75 iP 24 33.90 6.4X
PSN 5.30 37 eP 24 38.00 -1.7
CMP 5.79 9 ePc 24 44.00 -2.7X
MLR 6.15 15 eP 24 53.00 1.1
BZS 6.26 346 eP 24 55.00 1.7
VRI 6.68 18 eP 25 00.00 0.7
NB2 22.88 344 P 28 22.70 -0.3
1.0s 3.00nm 3.8mb
BCAO 35.27 189 ePc 30 27.50 12.1X
0.6s 4.00nm
S.D. = 1.0 on 30 of 36 obs.

JAN 27, 1991 23h 27m 03.30± 0.70s
39.672 N ± 5.9km 23.437 E ± 8.4km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
ML 3.2 (ATH).

NEO 0.40 204 ePg 27 10.80 -0.7
PLG 0.70 1 ePg 27 16.00 -1.2
KZN 1.43 297 ePg 27 30.00 0.7
EVR 1.47 240 ePb 27 29.60 -0.4
ATH 1.71 173 ePb 27 34.00 0.7
VAY 1.77 338 ePn 27 35.00 0.8
RDO 2.18 47 ePn 27 36.00 -4.0X
PRK 2.24 100 ePn 27 41.00 0.1
OHR 2.48 306 ePn 27 48.00 3.6X
S.D. = 0.9 on 7 of 9 obs.

JAN 27, 1991 23h 30m 00.65± 0.86s
15.523 N ±10.6km 94.128 W ± 8.9km
DEPTH = 66.8 ± 9.0 km
3.9mb (3 obs.)
NEAR COAST OF OAXACA, MEXICO (66)

SCX 1.88 50 eP 30 32.47 1.4
iS 30 57.99
TPX 1.90 109 iP 30 30.63 -0.9
iS 30 51.00
IISM 4.64 318 iP 31 08.27 -1.5
iS 32 02.50
LVVM 4.74 333 (P) 31 06.68 -4.6X
IIT 5.30 312 eP 31 20.00 0.7
iS 32 20.00
PPM 5.56 310 iP 31 23.50 0.3
(S) 32 31.00
III 5.84 300 eP 31 27.21 0.2
iS 32 31.00
UNM 6.13 309 (P) 31 57.00 26.0X
MEO 19.59 349 eP 34 25.00 -1.2
TUL 20.36 356 eP 34 43.30 9.2X
0.6s 3.10nm 3.8mb
ANCC 20.76 123 iPc 34 38.81 0.3
CLMC 20.80 122 ePc 34 39.38 0.4
HOBC 20.89 120 ePc 34 39.38 -0.4
HOOC 20.98 123 eP 34 43.53 2.6X
SALC 21.22 124 eP 34 44.13 0.9
DIAC 21.43 123 ePc 34 46.75 1.4
ALO 22.28 332 eP 34 54.50 0.8
0.9s 4.20nm 3.9mb
ZOBO 40.70 140 P 37 36.00 -1.2
Z 24s 0.20um 3.9MszX
S 44 08.00
LR 52 44.00
LPB 40.92 140 eP 37 36.00 -2.8X
CNCB 41.20 140 P 37 42.00 0.8
SIV 45.23 132 P 38 12.20 -1.1
YKA 49.09 348 eP 38 50.70 7.8X
1.0s 3.40nm 4.3mb
FRB 51.33 14 eP 38 58.00 -1.9
BAO 55.09 122 e(P) 39 29.00 0.4
PPD 56.16 131 e(P) 39 35.00 -1.1
INK 58.41 344 eP 39 52.00 0.7
PDCR 61.15 114 (P) 40 10.00 -0.8
GUN 136.83 360 Pdiff 46 25.40 0.7
MNI 137.95 290 ePKP 49 21.80 1.3
S.D. = 1.1 on 23 of 29 obs.

• JAN 27, 1991 23h 56m 20.96± 1.15s
25.306 N ± 8.8km 123.548 E ±13.3km
DEPTH = 192.4 ± 10.9 km
4.2mb (7 obs.)
NORTHEAST OF TAIWAN (245)

ANP 1.84 267 e(P) 56 57.00 -0.7
OZH 4.51 266 eP 57 39.50 10.0X
SSE 6.13 341 eP 57 35.00 -15.5X
Z 16s 2.30um
N 11s 1.70um
E 11s 3.00um
pP 57 40.00
i 58 14.50
S 58 58.00
Lg 59 36.00
CVP 7.73 192 iPc 58 13.00 1.3
TIA 12.19 335 eP 59 16.20 6.8X
Z 12s 1.60um
GYA 15.24 278 P 00 02.80 15.0X
N 12s 0.90um
E 12s 0.90um
BJI 15.94 339 eP 59 57.00 0.9
Z 14s 1.17um
N 10s 1.07um
SNY 16.48 0 eP 00 03.20 0.6
1.1s 10.00nm 4.1mb
Z 14s 2.10um 4.1Msz
N 11s 1.30um
CN2 18.52 4 eP 00 23.00 -2.2
Z 12s 2.00um
epP 00 26.00
LZH 20.03 307 eP 00 41.00 0.1
2.0s 43.00nm 4.6mb
Z 15s 0.96um 4.3MszX
N 10s 0.48um
E 10s 0.52um
pP 00 50.00 35kmX
sP 00 53.50
PP 01 00.00
eS 04 20.00
Lg 07 07.00
CHTO 23.68 259 eP 01 16.10 -0.4
1.2s 10.42nm 4.3mb
GUN 33.69 283 P 02 46.50 0.3
PKI 34.14 282 P 02 49.40 -0.5
KKN 34.23 283 P 02 50.60 0.0
DMN 34.40 282 P 02 52.40 0.3
GKN 34.78 283 P 02 55.20 0.0
WRA 46.19 166 P 04 25.00 -3.3X
0.9s 7.00nm 4.1mb
ASPA 49.71 168 iPc 04 53.90 -1.5
1.8s 9.20nm 4.0mb
YKA 81.10 24 eP 08 18.50 3.0X
0.6s 0.40nm 3.3mb
FFC 91.24 24 eP 09 07.00 1.7
1.0s 11.00nm 4.9mb
S.D. = 1.2 on 14 of 20 obs.

• JAN 28, 1991 00h 26m 09.37± 1.30s
32.275 N ±13.4km 83.205 E ±14.1km
DEPTH = 33.0km (normol)
3.5mb (1 obs.)
TIBET (306)

GKN 4.43 163 P 27 15.10 -1.1
KKN 4.82 158 P 27 22.20 0.5
GUN 4.93 151 P 27 25.00 1.6
DMN 4.93 160 P 27 22.60 -0.8
PKI 5.06 157 P 27 25.00 -0.3
NDI 6.29 237 eP 27 42.50 0.3
YKA 84.48 8 eP 38 39.50 -0.2
0.8s 0.30nm 3.5mb
S.D. = 1.1 on 7 of 7 obs.

& JAN 28, 1991 00h 35m 59.62s
60.875 N 151.708 W
DEPTH = 80.3km
KENAI PENINSULA, ALASKA (14)
<AEIC>.

NKA 0.27 120 iP 36 13.10 1.2
SPU 0.35 331 iP 36 11.86 -0.6
iS 36 21.86
CKL 0.45 317 iP 36 12.59 -0.7
CRP 0.45 331 iP 36 13.12 -0.2
iS 36 23.74
RDT 0.46 229 iP 36 12.64 -0.7
eS 36 23.41
BGL 0.51 320 eP 36 13.21 -0.6
eS 36 23.91
REF 0.62 232 iP 36 14.26 -0.7
RDN 0.63 236 iP 36 14.06 -0.9
eS 36 25.56
RSO 0.66 232 iP 36 14.67 -0.7
iS 36 26.44
RS2 0.66 232 iP 36 14.71 -0.7
eS 36 26.48
NCT 0.68 243 iP 36 14.52 -0.9
iS 36 26.35
RED 0.70 229 iP 36 14.87 -0.7
eS 36 26.81
SUA 0.75 38 eP 36 16.00 -0.2
eS 36 28.73
SLKM 0.82 116 iP 36 16.45 -0.4
eS 36 29.70
NNL 0.86 166 eP 36 17.85 0.6
PMS 1.11 70 eP 36 20.15 -0.2
eS 36 34.70
SKT 1.11 4 iP 36 19.74 -0.6
eS 36 36.01
PWA 1.18 48 eP 36 21.00 -0.1
eS 36 37.86
BRLK 1.19 159 eP 36 20.78 -0.5
eS 36 37.13
HOM 1.22 178 eP 36 21.91 0.2
iS 36 39.45
SEW 1.36 124 eP 36 22.31 -1.1
CNPM 1.37 170 eP 36 23.05 -0.7
iS 36 41.15
XLV 1.43 180 eP 36 22.94 -1.4
PLRM 1.44 59 eP 36 23.61 -0.9
GHO 1.62 55 iP 36 26.07 -0.9
PDB 1.65 230 iP 36 26.07 -1.2
eS 36 46.59
CUT 1.68 23 eP 36 27.30 -0.4
AUE 1.73 209 eP 36 27.74 -0.7
AUH 1.75 211 eP 36 28.33 -0.4
AUI 1.77 210 eP 36 28.43 -0.5
SVW 1.92 279 eP 36 29.46 -1.6
eS 36 52.32
KNIM 2.03 103 eP 36 29.75 -2.7
eS 36 54.24
MCNL 2.15 219 eP 36 32.96 -1.1
CDD 2.18 207 eP 36 33.67 -0.9
MTU 2.20 112 eP 36 33.12 -1.7
GLI 2.26 88 eP 36 32.89 -2.7
eS 36 58.93
SYI 2.30 189 eP 36 35.40 -0.7
VZW 2.52 84 eP 36 37.29 -2.0
VLZ 2.63 82 eP 36 38.69 -2.0
TRF 2.67 14 eP 36 40.07 -1.4
KLU 2.87 75 iP 36 42.09 -2.0
eS 37 14.93
RND 2.87 27 eP 36 42.97 -1.2
TOA 2.93 63 eP 36 43.42 -1.5
TZL 3.24 66 eP 36 47.57 -1.5
SDG 3.37 58 eP 36 50.02 -1.0
PAX 3.62 52 eP 36 53.52 -1.1
GLB 3.87 78 eP 36 55.57 -2.4
WRH 3.98 23 eP 36 58.05 -1.4
HDA 4.17 30 eP 37 00.24 -1.9
CCB 4.19 24 eP 37 00.68 -1.7
MDM 4.40 20 eP 37 03.52 -1.8
FBA 4.42 22 eP 37 03.26 -2.4

27d 20h

52 obs. associated

• JAN 28, 1991 00h 49m 57.71± 0.96s
36.024 N ±10.3km 27.202 E ±10.6km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)
MD 3.4 (ATH).

KAP	0.47	183	ePb	50 07.00	-0.3
ARG	0.77	75	ePb	50 12.80	0.0
YER	1.41	38	iPn	50 22.80	-0.6
NPS	1.50	240	ePn	50 25.00	0.3
			eSb	50 42.50	
ELL	2.30	71	ePn	50 37.00	0.6
BCK	3.07	61	iP	50 53.90	6.6X

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

JAN 28, 1991 00h 56m 48.23± 0.64s
39.645 N ± 5.9km 23.541 E ± 7.2km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
ML 3.3 (ATH).

NEO	0.42	216	ePb	56 56.50	-0.3
PLG	0.73	354	ePn	57 02.00	-0.6
KZN	1.51	296	ePb	57 15.70	0.3
EVR	1.53	242	ePn	57 15.50	-0.2
ATH	1.68	175	ePb	57 20.00	2.3
VAY	1.83	336	iPn	57 20.60	0.7
RDO	2.14	45	ePn	57 21.20	-3.2X
PRK	2.15	100	ePn	57 25.50	0.9
EZN	2.15	84	ePn	57 23.50	-1.2
OHR	2.56	306	ePn	57 30.80	0.4
SKO	2.82	326	ePn	57 34.00	-0.1
VLI	2.96	189	ePn	57 34.00	-2.1
DMK	3.87	54	ePn	57 45.70	-3.4X

S.D. = 1.3 on 11 of 13 obs.

• JAN 28, 1991 01h 08m 50.21± 1.11s
31.185 S ±10.5km 68.333 W ±14.0km
DEPTH = 108.5 ± 15.2 km
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.19	219	iPc	09 05.60	-0.3
RTCV	0.70	194	e(P)	09 08.80	0.1
RTRS	1.40	316	iP	09 16.00	-0.1
JACH	2.43	232	iP	09 31.30	1.9
			iS	11 02.00	
FCH	2.70	217	eP	09 38.30	5.0X
			i	10 16.50	
PEL	2.79	225	iP	09 34.00	-0.1
			iS	10 07.00	
ROCH	2.89	231	eP	09 35.50	-0.1
			iS	10 09.20	
SAN	3.00	220	eP	09 37.00	0.1
			e	10 13.00	
PCH	3.05	217	eP	09 38.30	0.6
			i	10 16.50	
TACH	3.30	221	eP	09 40.00	-1.0
			iS	10 18.50	
CYA	3.51	40	iPd	09 44.00	0.1
LCCH	3.57	229	eP	09 43.50	-1.1
LNV	3.79	222	iPc	09 45.00	-2.6X
			iS	10 27.50	

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

? JAN 28, 1991 02h 24m 22.70± 1.00s
36.016 N ±10.6km 27.221 E ±11.5km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)
MD 3.3 (ATH).

KAP	0.47	185	ePb	24 32.00	-0.2
ARG	0.76	74	ePb	24 37.80	0.3
YER	1.41	37	iPn	24 48.10	-0.3
NPS	1.51	241	ePn	24 50.00	0.2
			eSb	25 08.00	

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

? JAN 28, 1991 02h 36m 42.00± 3.75s
11.140 S ±10.1km 163.383 E ±29.3km
DEPTH = 42.2 ± 25.0 km
4.3mb (3 obs.) 4.1Msz (1 obs.)
SOLOMON ISLANDS (193)

HNR	3.78	296	eP	37 40.00	0.6
			eS	38 22.00	
SVO	4.03	299	eP	37 42.00	-0.8
			eS	38 27.00	
BRS	19.00	210	iPc	41 04.50	1.5
RMQ	20.58	220	eP	41 20.00	0.0
CMS	25.95	216	eP	42 12.00	-0.4
			e	42 23.00	
ASPA	30.69	242	eP	42 53.10	-2.2
	1.2s		5.90nm	4.2mb	
	Z 20s		0.40um	4.1Msz	
LZH	73.12	313	e(P)	48 11.00	0.6
	1.5s		23.00nm	4.9mb	
			pP	48 16.50	18kmX
GUN	84.34	300	P	49 12.60	0.7
PKI	84.66	299	P	49 13.60	0.2
KKN	84.82	299	P	49 14.60	0.5
DMN	84.93	299	P	49 15.40	0.7
GKN	85.43	300	P	49 17.20	0.1
YKA	96.12	28	eP	50 05.50	-0.7
	0.6s		0.30nm	4.0mb	
BCAO	144.57	262	iPKPc	56 15.90	-0.8
	0.3s		5.00nm		
			ic	56 27.10	
SOB1	148.51	129	(PKP)	56 30.00	6.8X

S.D. = 1.1 on 14 of 15 obs.

? JAN 28, 1991 02h 58m 48.01± 0.89s
26.837 N ±14.6km 44.579 W ±20.3km
DEPTH = 10.0km (geophysicist)
4.7mb (4 obs.)
NORTH ATLANTIC RIDGE (403)

TUL	44.23	295	ePd	07 00.50	1.3
	1.4s		21.30nm	4.8mb	
ZOBO	48.57	211	P	07 33.00	-1.3
	1.2s		6.76nm	4.6mb	
LPB	48.79	211	P	07 36.00	0.2
CNCB	48.98	210	P	07 38.00	0.6
YKA	57.36	329	eP	08 37.00	-1.4
	1.1s		3.20nm	4.3mb	
BCAO	64.07	99	iPd	09 25.20	0.4
	1.0s		15.00nm	5.1mb	
			id	09 30.60	
INK	64.98	336	eP	09 30.00	0.2

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

• JAN 28, 1991 03h 06m 01.33± 1.29s
39.863 N ± 6.4km 30.269 E ±15.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.8 (ISK).

GPA	0.43	4	iPg	06 10.00	0.0
			iSg	06 19.00	
ALT	0.82	189	iPg	06 15.50	-1.7
			iSg	06 26.50	
YLV	0.98	316	iPg	06 19.60	-0.4
HRT	1.06	335	iPn	06 21.20	-0.2
DST	1.29	259	ePn	06 25.00	-0.3
ISK	1.51	323	ePn	06 29.00	0.5
KHL	1.64	201	ePn	06 32.50	2.1
BNT	1.87	286	ePn	06 36.00	2.4X
EDC	1.91	285	ePn	06 37.00	2.8X
BBTK	1.92	90	eP	06 44.00	9.5X
			iS	07 06.00	

S.D. = 1.4 on 7 of 10 obs.

JAN 28, 1991 03h 51m 23.43± 0.29s
26.941 N ± 6.3km 44.393 W ± 5.0km
DEPTH = 10.0km (geophysicist)
4.7mb (27 obs.) 4.2Msz (3 obs.)
NORTH ATLANTIC RIDGE (403)

BLA	32.03	298	P	57 53.00	0.6
	0.8s		67.11nm	5.6mb X	
GUD	35.81	57	eP	58 25.00	-0.1
RSCP	36.03	294	P	58 20.00	-6.8X
LPF	39.67	46	eP	58 57.40	0.3
	1.0s		16.00nm	4.6mb	
MFF	39.89	49	eP	58 58.60	-0.4
	1.0s		16.00nm	4.6mb	
FVM	40.01	298	P	59 01.70	1.5
	1.0s		18.00nm	4.7mb	
FRB	40.01	344	eP	58 59.00	-0.8
LFF	40.14	51	eP	59 01.60	0.6
	1.0s		20.00nm	4.7mb	
FLN	40.23	45	eP	59 01.90	0.1
	Z 22s		0.47um	4.3Msz	
LPO	40.40	52	eP	59 03.60	0.4
	1.0s		16.00nm	4.7mb	
LDF	40.41	46	eP	59 03.30	0.0
RJF	40.74	51	eP	59 06.20	0.1
	1.0s		8.00nm	4.4mb	
	Z 20s		0.35um	4.2Msz	
LSF	40.94	50	eP	59 08.10	0.5
	1.0s		13.00nm	4.6mb	
TCF	41.41	50	eP	59 12.00	0.5
	1.0s		6.00nm	4.3mb	
BGF	41.89	49	eP	59 15.60	0.1
AVF	42.28	49	eP	59 19.00	0.4
	1.0s		8.00nm	4.4mb	
SSF	42.43	49	eP	59 20.00	0.1
	1.0s		8.00nm	4.4mb	
BAO	42.46	185	ePd	59 21.50	1.0
SMF	42.58	49	eP	59 21.50	0.4
	1.0s		16.00nm	4.7mb	
LOR	42.71	49	eP	59 22.20	0.0
	1.0s		6.00nm	4.3mb	
	Z 25s		0.43um	4.2MszX	
LIC	42.72	112	P	59 20.70	-1.9
	Z 20s		0.28um	4.1Msz	
LBF	42.74	49	eP	59 22.50	0.1
	1.0s		8.00nm	4.4mb	
HAU	44.50	48	eP	59 36.40	-0.3
	1.0s		8.00nm	4.6mb	
BSF	44.76	48	eP	59 38.50	-0.5
	1.0s		8.00nm	4.6mb	
CDF	45.18	47	eP	59 42.10	-0.1
	1.0s		8.00nm	4.6mb	
SIV	45.65	203	P	59 45.80	-0.3
MEO	46.70	293	eP	00 01.70	7.4X
SOTA	47.66	50	iPd	00 01.60	-0.3
	1.4s		21.80nm	5.1mb	
			i	00 20.10	
			i	00 27.40	
ZOBO	48.74	211	P	00 10.90	-0.2
	1.1s		10.15nm	4.8mb	
	Z 24s		0.15um	3.9MszX	
			S	07 10.00	
			LR	15 04.00	
LPB	48.96	211	Pc	00 12.80	0.3
CNCB	49.15	210	P	00 13.00	-1.2
CLL	49.25	44	eP	00 13.00	-1.0
KHC	49.40	47	P	00 16.10	0.9
FFC	49.86	320	eP	00 20.00	1.4
	1.4s		28.00nm	5.0mb	
PRU	50.09	46	eP	00 21.00	0.5
NB2	50.28	31	P	00 22.00	0.2
	1.1s		7.20nm	4.5mb	
RSSD	50.39	306	P	00 16.70	-6.4X
HFS	51.22	33	eP	00 28.10	-0.8
	1.6s		46.40nm	5.2mb	
KSP	51.27	45	eP	00 30.00	0.6
			e	10 38.00	
ZST	51.69	49	eP	00 32.40	-0.2
			e	09 57.90	
SRO	52.50	49	eP	00 23.50	-15.2X
			e	00 37.60	
			e	10 02.00	
ALQ	53.09	295	eP	00 43.50	-0.1
	1.5s		23.61nm	4.9mb	
BW06	54.48	305	P	00 51.70	-2.0
	1.0s		13.67nm	4.9mb	
YKA	57.35	329	eP	01 11.10	-2.7X
	1.1s		3.10nm	4.2mb	
NEW	59.18	312	P	01 24.90	-1.9
	0.8s		16.67nm	5.2mb	
GLA	60.28	294	eP	01 36.00	1.4
MBC	60.46	345	eP	01 34.50	-0.7
	1.0s		8.00nm	4.8mb	
TNP	61.00	300	P	01 43.50	3.9X
TPC	61.01	296	eP	01 43.00	3.5X
GSC	61.32	297	eP	01 31.00	-10.7X
SBB	62.29	297	eP	01 54.00	5.8X
ISA	62.55	298	eP	01 51.00	1.1
MWC	62.59	296	eP	01 51.00	0.6
BCAO	63.92	99	iPd	01 59.00	-0.2
	0.6s		11.00nm	5.2mb	
			id	02 05.30	
			id	02 11.10	
INK	64.95	336	eP	02 03.00	-2.1
LWI	76.09	100	iPc	03 15.30	1.6
DZM	151.56	273	iPKPc	11 20.70	7.1X
WRA	172.94	10	PKP	11 47.00	12.9X
	1.0s		1.00nm		

S.D. = 0.9 on 47 of 58 obs.

JAN 28, 1991 04h 07m 26.50± 0.29s
39.594 N ± 3.0km 23.776 E ± 2.7km
DEPTH = 10.8 ± 2.1 km
4.1mb (5 obs.)
AEGEAN SEA (365)
ML 4.0 (ATH).

NEO	0.52	236	eP	07	36.00	-1.0
PLG	0.82	342	eP	07	41.70	-0.6
LIT	1.11	297	iP	07	46.70	-0.6
THE	1.21	329	iP	07	49.00	0.1
AGG	1.26	243	iPc	07	48.70	-1.1
SOH	1.27	345	iP	07	50.10	0.1
SRS	1.53	355	iP	07	53.90	0.2
ATH	1.62	182	eP	07	55.50	0.4
EVR	1.67	247	eP	07	55.00	-0.9
KZN	1.70	295	eP	07	55.70	-0.6
KNT	1.70	337	iP	07	56.40	0.1
VAY	1.95	332	iPn	08	01.00	1.1
	1.0s	1096.00nm				
			iSn	08	24.00	
			iSg	08	31.50	
			Lg	08	33.00	
PRK	1.96	99	eP	08	01.00	0.9
EZN	1.98	82	iPn	08	00.90	0.6
MM8	1.99	359	iPd	08	01.00	0.5
RDO	2.05	40	eP	08	01.00	-0.3
FNA	2.19	304	iP	08	02.60	-0.8
RZN	2.21	19	iPd	08	05.00	1.2
KKB	2.33	347	iPd	08	16.00	10.6X
KDZ	2.40	31	iPc	08	06.00	-0.4
OHR	2.73	305	ePn	08	09.00	-2.2
	1.4s	590.00nm				
			Lg	09	04.60	
VLS	2.86	241	ePb	08	15.00	2.1
APE	2.87	151	iPnc	08	12.50	-0.6
VLI	2.95	193	ePn	08	13.50	-0.6
SKO	2.96	324	iPn	08	14.10	-0.2
	1.2s	237.00nm				
			i	08	33.50	
			i	08	44.00	
			i	09	01.60	
			Lg	09	03.50	
PGB	2.97	6	ePd	08	14.00	-0.4
IZM	2.97	113	iPn	08	15.40	1.0
VTS	3.02	352	iP	08	16.00	0.7
SMG	3.05	127	ePn	08	16.50	1.0
KEK	3.07	273	ePb	08	18.00	2.1
EDC	3.23	75	iP	08	19.00	0.9
BNT	3.27	75	iP	08	17.60	-1.2
DST	3.75	88	iP	08	26.00	0.4
DMK	3.76	52	iP	08	24.70	-0.9
PVL	3.80	17	iPd	08	24.00	-2.2
PVY	4.15	317	ePn	08	31.40	0.1
VAM	4.19	175	ePn	08	33.00	1.2
ITU	4.28	68	eP	08	53.00	20.0X
ISK	4.30	68	eP	08	28.00	-5.3X
YER	4.31	123	eP	08	33.90	0.4
IVA	4.39	319	ePn	08	34.50	-0.2
YLV	4.40	75	iP	08	33.10	-1.8
TTG	4.44	311	ePn	08	35.00	-0.2
NPS	4.56	161	ePb	08	43.00	5.9X
KHL	4.66	104	eP	08	38.50	0.0
HRT	4.68	73	eP	08	38.00	-0.7
ALT	4.94	94	eP	08	43.50	1.0
PLE	4.98	320	ePn	08	42.50	-0.5
BUC1	5.04	19	eP	08	48.00	4.3X
GPA	5.07	80	eP	08	44.50	0.2
DRA	5.09	4	ePd	08	45.00	0.5
BUC	5.12	19	eP	08	50.00	5.2X
CMP	5.75	9	ePd	08	56.00	2.2
BEO	5.78	336	ePn	09	18.00	23.9X
			e(Sg)	10	38.00	
ISR	5.91	19	eP	09	00.00	4.0X
TLB	5.91	31	eP	09	00.00	4.0X
TNR	6.07	3	ePc	08	58.00	-0.2
MLR	6.11	14	eP	09	03.00	4.1X
BZS	6.23	346	ePc	09	02.50	2.0
DEV	6.32	354	iPc	08	45.00	-16.8X
CFR	6.46	29	eP	09	08.00	4.2X
CVO	6.47	15	eP	09	09.00	5.0X
SGO	6.57	281	P	09	06.90	1.6
VRI	6.64	18	ePc	09	10.00	3.7X
BBTK	6.93	85	eP	09	00.00	-10.6X
			e	09	14.00	

SDI	7.86	289	P	09	25.60	2.0
BMR	8.08	359	ePd	09	39.00	12.5X
PTJ	8.53	320	eP	09	27.60	-5.3X
KHC	11.99	326	eP	10	21.40	1.1
CLL	13.92	331	eP	10	55.00	9.2X
HFS	21.51	346	eP	12	15.00	-2.3X
	0.4s		1.40nm			3.7mb
	Z 16s		0.14um			3.5MszX
			LR	17	09.00	
NB2	22.84	344	P	12	29.10	-1.4
	0.9s		4.00nm			3.9mb
EKA	23.85	320	P	12	44.00	3.7X
	1.3s		13.00nm			4.3mb
BCAO	35.32	189	ePd	14	23.00	-0.8
	0.6s		7.00nm			4.7mb
			ic	14	33.10	
LIC	42.14	226	P	15	19.00	-1.5
GKN	51.01	84	P	16	30.00	-0.7
GUN	52.01	83	P	16	38.00	-0.5
YKA	72.90	341	eP	18	54.60	-2.4X
	0.9s		1.30nm			4.0mb

S.D. = 1.1 on 57 of 78 obs.

* JAN 28, 1991 04h 25m 56.09± 1.62s
39.607 N ± 9.9km 23.681 E ±11.9km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

PAIG	0.32	360	eP	26	02.92	0.2
			eS	26	08.24	
OUR	0.76	18	iPc	26	11.01	0.1
			eS	26	21.88	
LIT	1.04	299	ePc	26	15.48	-0.3
			iS	26	30.72	
THE	1.16	332	ePc	26	18.08	0.3
			iS	26	34.04	
AGG	1.20	241	ePc	26	18.56	0.1
			eS	26	35.68	
SOH	1.24	348	eP	26	18.88	-0.3
			eS	26	35.60	
SRS	1.51	357	eP	26	22.76	-0.4
			eS	26	42.04	
KNT	1.66	339	ePc	26	25.64	0.2
			eS	26	47.56	
GRG	1.67	324	eP	26	25.52	0.1
			eS	26	47.24	
VAY	1.91	334	ePn	26	33.50	4.5X

S.D. = 0.3 on 9 of 10 obs.

% JAN 28, 1991 04h 46m 42.34± 1.60s
39.604 N ±10.1km 23.649 E ±11.8km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

PAIG	0.32	4	ePc	46	48.94	-0.1
			iS	46	54.30	
OUR	0.77	19	ePc	46	56.94	-0.5
			iS	47	07.82	
LIT	1.02	299	ePc	47	01.50	-0.2
			eS	47	16.34	
THE	1.15	333	eP	47	03.78	-0.1
			eS	47	19.70	
AGG	1.18	241	ePc	47	04.26	-0.1
			iS	47	21.30	
SOH	1.24	350	ePc	47	05.18	-0.2
			eS	47	21.70	
SRS	1.51	358	eP	47	10.26	0.8
			iS	47	29.38	
GRG	1.65	325	ePc	47	11.62	0.1
			eS	47	34.38	
KNT	1.66	340	ePc	47	11.82	0.2
			eS	47	34.50	

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

? JAN 28, 1991 05h 32m 32.74±12.60s
3.731 N ±13.2km 77.213 W ±106.km
DEPTH = 33.0km (normal)
NEAR WEST COAST OF COLOMBIA (102)
MD 2.5 (UVC).

ANCC	0.41	122	ePc	32	41.87	-0.1
			eS	32	48.10	
HOQC	0.63	114	iPd	32	45.37	-0.1
			eS	32	54.40	
CLMC	0.67	77	eP	32	45.74	-0.1
BUGC	0.97	80	eP	32	50.13	0.0
			eS	33	01.80	
DIAC	1.10	113	eP	32	52.46	0.4
			eS	33	06.70	
HOBC	1.24	60	eP	32	54.05	0.1
			eS	33	09.50	

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

? JAN 28, 1991 06h 34m 09.80± 2.72s
17.072 N ±18.0km 121.736 E ±24.5km
DEPTH = 33.0km (normal)
LUZON, PHILIPPINE ISLANDS (249)

CVP	0.63	7	eP	34	22.00	-0.3
			eS	34	50.00	
BAG	1.29	239	eP	34	32.00	0.2
			eS	34	50.00	
SZP	1.31	291	eP	34	31.00	-0.9
			eS	34	51.00	
PIP	1.64	320	iPd	34	37.60	0.9

S.D. = 1.4 on 4 of 4 obs.

? JAN 28, 1991 06h 40m 49.76± 0.94s
26.636 N ±15.8km 44.609 W ±21.4km
DEPTH = 10.0km (geophysicist)
4.8mb (6 obs.)
NORTH ATLANTIC RIDGE (403)

ZOBO	48.38	211	P	49	35.00	0.4
LPB	48.60	211	P	49	35.00	-1.1
CNCB	48.79	210	eP	49	25.00	-12.7X
FFC	49.97	320	eP	49	46.00	0.2
	0.9s		15.00nm			5.0mb
ALQ	53.05	295	eP	50	10.80	1.2
	1.3s		6.73nm			4.4mb
BW06	54.49	305	iP	50	20.00	-0.1
	1.0s		11.25nm			4.9mb
YKA	57.51	329	eP	50	39.20	-2.1
	1.0s		3.00nm			4.3mb
NEW	59.24	312	ePc	50	53.00	-0.6
	1.0s		17.50nm			5.1mb
PNT	60.75	314	eP	51	06.00	2.2
BCAO	64.06	98	iPc	51	27.10	0.6
	0.7s		6.00nm			4.9mb
INK	65.15	336	eP	51	32.00	-0.7

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

JAN 28, 1991 07h 43m 15.50± 0.19s
27.008 N ± 4.4km 44.600 W ± 2.9km
DEPTH = 10.0km (geophysicist)
4.9mb (46 obs.) 5.0Msz (3 obs.)
NORTH ATLANTIC RIDGE (403)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 27C
Centroid Location:
Origin Time 07:43:17.6 0.4
Lat 27.01N 0.06 Lon 44.17W 0.04
Dep 15.0 FIX Half-duration 2.2
Moment Tensor; Scale 10**17 Nm
Mrr=-1.10 0.04 Mtt=-0.10 0.08
Mff= 1.20 0.08 Mrt= 0.00 0.00
Mrf= 0.00 0.00 Mtf= 0.25 0.05
Principal Axes:
T Val= 1.24 Plg= 0 Azm=100
N -0.14 0 10
P -1.10 90 180
Best Double Couple:Mo=1.2*10**17
NP1:Strike=190 Dip=45 Slip= -90
NP2: 10 45 -90

BLA	31.84	298	P	49	42.50	-0.3
	1.2s		25.00nm			5.0mb
SCH	32.17	336	eP	49	45.00	-0.4
JSC	32.23	292	P	49	45.90	-0.3
PTO	32.73	55	iPc	49	50.70	0.3
TIO	32.80	74	iP	49	52.50	1.2
EVAL	33.49	62	eP	49	58.00	0.9
ERUA	34.10	53	eP	50	02.50	0.1
EMON	34.24	52	eP	50	02.40	-1.2
TKL	34.37	294	P	50	04.10	-0.7
EPLA	34.38	58	eP	50	05.00	0.1
IFR	34.55	69	iPc	50	07.00	0.5
EHOR	34.70	62	eP	50	08.00	0.5
MAL	35.26	64	eP	50	02.00	-10.3X
RSCP	35.83	294	P	50	18.40	1.1
	1.0s		36.33nm			5.2mb
TOL	35.89	59	eP	50	18.50	0.8
			eS	55	54.00	

28d 07h

GUD	35.93	57	eP	50	17.70	-0.5		1.1s	93.67nm		5.7mb				id	53	58.10						
SOB1	36.18	174	eP	50	22.30	2.0		Z 24s	2.33um		5.1MszX				ic	54	41.10						
ECRI	37.49	54	eP	50	32.20	1.0			S	59	12.00			WDC	64.24	304	ePc	53	51.50	-1.5			
ETOR	37.53	57	eP	50	32.80	1.2			LR	06	44.00			MHC	64.39	301	eP	53	55.90	1.7			
BTH	39.25	54	Pc	50	47.40	1.6	CNCB	49.11	210 P	52	05.80	-0.2		INK	64.81	336	ePd	53	54.80	-1.5			
			ipP	50	54.00	22kmX	PPD	49.18	188 eP	52	04.60	-1.2		FHC	65.24	305	eP	54	00.80	1.3			
EBR	39.45	58	eP	51	00.00	12.5X	CLL	49.33	44 iP	52	07.60	0.9		FBA	71.24	334	ePd	54	36.60	0.2			
			e	56	52.00				i	52	12.80				1.2s		25.20nm			5.2mb			
			e	57	04.00				e	52	55.00			BRW	71.39	342	eP	54	38.40	1.1			
EPF	39.63	54	eP	50	49.10	0.1	BMA	49.41	179 eP	52	06.30	-1.2		KLU	71.80	330	P	54	39.30	-0.7			
	1.0s		10.00nm			4.4mb	KHC	49.49	47 P	52	07.50	-0.5		IMA	72.94	336	ePd	54	46.90	0.2			
PDCR	39.66	172	eP	50	47.20	-2.2		1.1s	12.00nm		4.8mb				1.4s		19.80nm			5.0mb			
LPF	39.76	46	eP	50	49.90	0.0		Z 23s	9.90um		5.7MszX			PMR	73.16	331	ePc	54	48.20	0.3			
	1.0s		28.00nm			4.9mb		N 23s	0.60um						0.9s		12.20nm			5.0mb			
FRB	39.90	344	ePd	50	50.10	-0.8		E 23s	0.60um					SVW	76.15	332	eP	55	05.00	-0.2			
	0.9s		47.00nm			5.2mb			e	52	18.50			PDB	76.21	331	P	55	04.90	-0.5			
GRR	39.97	46	eP	50	51.40	-0.3	FFC	49.69	320 iPd	52	09.20	-0.2		LWI	76.28	100	iPc	55	06.80	-0.1			
MFF	39.98	49	eP	50	51.60	-0.2		0.9s	22.00nm		5.1mb			KRI	84.12	112	eP	55	46.10	-2.4			
	1.0s		34.00nm			5.0mb	NNA	49.82	223 eP	52	09.00	-1.9		SLR	87.60	120	iPc	56	16.50	10.9X			
LFF	40.24	51	eP	50	53.80	-0.2		0.8s	8.21nm		4.8mb				0.9s		25.21nm						
	1.0s		46.00nm			5.1mb	BRG	49.88	45 iP	52	11.40	0.5					e	56	59.00				
FLN	40.32	45	eP	50	54.50	0.0		1.1s	21.00nm		5.0mb			QUE	93.31	54	eP	56	33.20	0.8			
	0.8s		10.75nm			4.6mb		N 20s	1.00um					DZM	151.38	273	iPKPc	03	12.60	7.2X			
LDF	40.50	46	eP	50	55.90	-0.2	PRU	50.18	46 eP	52	13.50	0.3					i	04	02.80				
	0.9s		19.65nm			4.8mb		1.1s	15.30nm		4.9mb			WRA	172.90	8	PKP	03	26.00	-0.1			
LPO	40.50	52	eP	50	56.00	-0.2		Z 22s	1.30um		4.9Msz				1.0s		5.80nm						
	1.0s		20.00nm			4.8mb		E 20s	0.60um						S.D. = 0.9		on 118 of 126 obs.						
OLY	40.64	294	P	50	58.00	0.6			e	52	20.00			----------									
RJF	40.85	51	eP	50	58.60	-0.4			e	53	02.50			& JAN 28, 1991 07h 43m 36.52s									
	1.0s		20.00nm			4.8mb			eS	59	30.00			59.834 N 152.972 W									
LSF	41.04	50	eP	51	00.40	-0.1	NB2	50.32	32 P	52	13.20	-0.9		DEPTH = 89.9km									
CAF	41.16	52	eP	51	01.30	-0.3		0.9s	12.10nm		4.9mb			SOUTHERN ALASKA								(2)	
	1.0s		10.00nm			4.5mb	VBY	50.49	52 ePc	52	16.40	0.8		<AEIC>.									
TCF	41.51	50	eP	51	04.40	0.0	HFS	51.27	33 eP	52	21.20	-0.1											
	1.0s		16.00nm			4.7mb		0.5s	2.00nm		4.3mb			AUE	0.52	203	eP	43	50.88	-0.7			
BGF	41.99	49	eP	51	08.10	-0.2	KSP	51.36	45 eP	52	21.60	-0.5					eS	44	01.91				
	0.9s		9.00nm			4.5mb			e	53	11.00			AUH	0.53	207	eP	43	51.22	-0.6			
AVF	42.38	49	eP	51	11.40	-0.1	ZST	51.78	49 eP	52	24.30	-1.1		AUI	0.55	205	eP	43	51.06	-0.8			
	1.0s		21.00nm			4.8mb			e	53	13.70						eS	44	02.27				
BAO	42.51	185	ePd	51	15.00	2.0	SRO	52.59	49 eP	52	31.00	-0.5		PDB	0.62	266	iP	43	51.79	-0.7			
SSF	42.53	49	eP	51	12.30	-0.4			i	53	20.40						eS	44	03.59				
	1.0s		24.00nm			4.9mb	UZD	52.79	51 e(P)	52	32.00	-1.0		RS2	0.64	10	iP	43	52.23	-0.7			
SMF	42.68	50	eP	51	13.80	-0.2	ALO	52.90	295 eP	52	34.90	0.7					eS	44	04.31				
	1.0s		34.00nm			5.0mb		1.0s	16.25nm		4.9mb			RSO	0.64	10	iP	43	52.21	-0.7			
LOR	42.80	49	eP	51	14.50	-0.5	KRA	53.66	46 eP	52	39.00	-0.3					iS	44	04.32				
	1.0s		18.00nm			4.8mb		Z 22s	1.60um		5.0Msz			REF	0.67	12	iP	43	52.47	-0.7			
LBF	42.83	49	eP	51	14.70	-0.6		E 22s	1.70um								eS	44	04.42				
	1.0s		14.00nm			4.6mb			e	52	50.20			RDN	0.69	9	iP	43	52.67	-0.7			
TUL	44.14	295	ePd	51	26.50	0.5			eS	00	24.00						eS	44	04.90				
	0.8s		25.10nm			5.1mb	SPC	53.86	47 eP	52	40.60	-0.5		HOM	0.70	104	iP	43	52.73	-0.5			
Z	1Bs		1.48um			4.9Msz	BW06	54.29	305 P	52	44.10	-0.2					eS	44	05.25				
			e(S)	58	02.70			1.4s	98.62nm		5.6mb			NCT	0.73	2	iP	43	52.90	-0.8			
			LR	03	45.80		SES	54.88	314 eP	52	46.00	-2.4					iS	44	05.75				
LPL	44.51	52	eP	51	29.90	0.8	IMW	55.19	306 P	53	02.40	11.4X		XLV	0.74	120	eP	43	52.83	-0.8			
	0.8s		5.35nm			4.5mb	DAU	55.83	302 P	52	55.50	-0.2					eS	44	06.40				
LPG	44.52	52	eP	51	30.10	0.8	LRM	56.08	309 eP	52	57.50	0.2		RDT	0.79	21	iP	43	53.43	-0.9			
	0.9s		8.20nm			4.6mb	HPI	56.76	306 P	53	02.20	-0.1					eS	44	06.40				
HAU	44.59	48	eP	51	28.80	-0.7	MSU	56.83	300 P	53	03.50	0.7		NNL	0.87	75	iP	43	55.13	0.1			
	0.9s		14.75nm			4.9mb	DUG	57.04	302 P	53	04.40	0.2		CNPM	0.93	109	iP	43	54.82	-0.9			
BSF	44.86	48	eP	51	31.10	-0.7		1.1s	17.11nm		5.0mb						eS	44	08.99				
	1.0s		12.00nm			4.8mb	YKA	57.20	329 eP	53	02.20	-2.6		MCNL	0.95	227	iP	43	54.92	-1.0			
CDF	45.27	48	eP	51	34.50	-0.5		1.1s	8.10nm		4.7mb						eS	44	08.92				
	1.0s		18.00nm			5.0mb	VRI	58.48	51 ePc	53	09.00	-5.0X		CDD	0.97	201	eP	43	54.99	-1.2			
SIV	45.64	202	P	51	37.60	-0.5	NEW	59.00	312 P	53	17.60	0.0					iS	44	09.62				
ABH	45.68	46	eP	51	39.22	1.0		1.6s	176.34nm		5.9mb X			BRLK	1.06	93	eP	43	56.39	-0.8			
PGF	45.93	56	eP	51	39.80	-0.5	GLA	60.09	294 eP	53	26.00	0.7					eS	44	12.32				
	1.0s		28.00nm			5.2mb	MBC	60.35	345 eP	53	26.00	-0.5		NKA	1.26	43	iP	44	00.26	0.7			
VAI	45.97	51	Pc	51	42.60	2.2		1.0s	31.00nm		5.4mb			SYI	1.26	166	eP	43	58.88	-0.8			
OGA	47.61	50	iPc	51	54.90	1.2	PNT	60.50	313 eP	53	28.00	0.1					eS	44	16.40				
SQTA	47.76	50	iPd	51	53.50	-1.3	TNP	60.81	300 P	53	30.00	-0.4		CKL	1.40	13	iP	44	00.87	-0.7			
	1.5s		73.10nm			5.5mb		1.3s	14.63nm		5.0mb						eS	44	18.81				
			ic	51	55.50		TPC	60.82	296 eP	53	32.00	1.7		SPU	1.43	18	iP	44	01.00	-0.8			
			i	52	44.00		GSC	61.13	297 eP	53	33.00	0.6					eS	44	19.86				
CTI	47.98	51	P	51	57.50	1.0	CLC	61.63	298 eP	53	26.00	-9.8X		BGL	1.46	11	iP	44	01.77	-0.5			
GRF	48.01	46	eP	51	55.90	-0.7	PLM	61.66	295 eP	53	37.00	0.8		CRP	1.49	15	eP	44	02.22	-0.5			
	0.9s		13.00nm			5.0mb	RVR	61.91	296 eP	53	31.00	-6.7X		SLKM	1.53	63	iP	44	02.03	-1.1			
Z	24s		1.50um			4.9MszX	SBB	62.09	297 eP	53	39.00	0.0		SEW	1.79	80	eP	44	05.56	-0.9			
			e	52	45.40		ISA	62.36	298 eP	53	42.00	1.3		SVW	1.83	315	iP	44	05.86	-1.2			
			e	53	25.10		MWC	62.40	296 eP	53	41.00	-0.2		SUA	1.97	33	eP	44	08.30	-0.7			
MOX	48.38	45	eP	52	00.00	0.6	FRI	62.99	300 eP	53	44.80	0.1		PMS	2.20	49	eP	44	10.56	-1.4			
Z	23s		2.90um			5.2MszX	CMB	63.25	301 eP	53	47.30	0.8		SKT	2.27	17	eP	44	11.70	-1.2			
JFO	48.46	178	eP	52	02.20	1.9	LBFM	63.57	305 P	53	48.00	-0.9		PWA	2.37	38	eP	44	13.32	-0.9			
ZOBO	48.71	211	P	52	03.00	0.2	MIN	63.60	304 eP	53	49.00	0.0		KNIM	2.67	77	eP	44	15.38	-3.0			
	1.2s		47.30nm			5.4mb	LLA	64.04	300 eP	53	52.50	0.7		MTU	2.68	84	eP	44	16.56	-2.0			
			S	59	16.00		BCAO	64.11	99 iPc	53	51.20	-1.3		GHO	2.78	44	eP	44	19.03	-0.9			
			LR	07	22.00			0.6s	56.00nm		5.9mb X			CUT	2.89	26	eP	44	21.39	0.0			
LPB	48.92	210	P	52	04.00	-0.3			ic	53	52.80			GLI	3.10	68	eP	44	22.29	-2.0			

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VZW     3.41  66 eP    44 25.30  -3.3
       36 obs. associated
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*  JAN  28, 1991  07h 44m 09.86± 0.54s
   27.852 N ±12.4km   44.378 W ± 8.1km
   DEPTH =  10.0km  (geophysicist)
   4.9mb ( 20 obs.)
 NORTH ATLANTIC RIDGE              (403)

BTH    38.60  55 ePc   51 38.00   3.3X
                e      51 42.00
LPF    39.04  47 eP    51 38.60   0.3
       1.0s    22.00nm          4.8mb
MFF    39.28  49 eP    51 40.90   0.5
       1.0s    26.00nm          4.9mb
LFF    39.56  52 eP    51 42.60  -0.1
       1.0s    32.00nm          4.9mb
LDF    39.77  46 eP    51 44.40   0.0
       1.0s    24.00nm          4.8mb
LPO    39.83  53 eP    51 44.80  -0.2
       1.0s    32.50nm          5.0mb
RJF    40.17  52 eP    51 47.40  -0.4
       1.1s    19.55nm          4.7mb
LSF    40.34  50 eP    51 49.40   0.2
       1.0s    14.00nm          4.6mb
CAF    40.49  52 eP    51 50.20  -0.2
       1.3s    25.25nm          4.8mb
TCF    40.82  50 eP    51 53.40   0.3
       1.0s    13.00nm          4.6mb
AVF    41.68  50 eP    52 00.00  -0.1
       1.3s    34.30nm          4.9mb
SSF    41.83  50 eP    52 01.40   0.0
       1.4s    41.40nm          5.0mb
SMF    41.99  50 eP    52 02.70   0.0
       1.3s    34.30nm          4.9mb
LOR    42.10  49 eP    52 03.50  -0.1
LBF    42.13  50 eP    52 03.70  -0.2
LPL    43.84  52 eP    52 18.60   0.6
LPG    43.85  52 eP    52 19.00   0.8
       1.5s    31.35nm          4.9mb
HAU    43.88  49 eP    52 17.80  -0.3
       1.0s    12.00nm          4.7mb
BSF    44.15  49 eP    52 19.50  -0.9
       1.0s    12.00nm          4.7mb
SBF    44.20  55 eP    52 20.40  -0.4
       1.2s    44.65nm          5.2mb
CDF    44.56  48 eP    52 23.10  -0.6
       1.0s    12.00nm          4.7mb
NB2    49.50  32 P     53 03.10   0.9
       1.1s    14.90nm          4.9mb
CCH    49.66 208 P     53 04.50   0.2
HFS    50.45  33 eP    53 34.70  25.2X
       0.9s     6.30nm
ALQ    52.73 294 eP    53 27.00  -0.3
       1.3s    24.04nm          5.0mb
MBC    59.59 344 eP    54 17.00   1.3
       1.0s    25.00nm          5.3mb
INK    64.13 336 eP    54 45.00  -1.2
WRA   172.04   9 PKP   04 18.00  -2.1X
       1.5s     2.90nm
     S.D. =  0.6  on  25 of  28 obs.
-----------------------------------------
*  JAN  28, 1991  07h 45m 37.05± 1.21s
   15.807 N ±13.5km   97.974 W ± 8.8km
   DEPTH =  10.0km  (geophysicist)
   4.9mb (  4 obs.)
 NEAR COAST OF OAXACA, MEXICO     ( 66)

OXX     1.75  43 iP    46 06.58  -1.2
                iS     46 29.53
ACX     2.09 301 (P)   46 05.86  -6.8X
III     2.93 331 iP    46 24.00  -0.7
                iS     47 04.00
IIT     3.21 354 iP    46 29.00   0.2
                (S)    47 15.00
IISM    3.21  10 iP    46 28.75   0.2
                (S)    47 09.00
PPM     3.30 349 eP    46 30.29   0.0
                iS     47 15.00
UNM     3.69 342 (P)   46 39.00   3.4X
                (S)    47 28.00
CRX     3.93 336 (P)   46 40.00   0.9
                (S)    47 23.00
LVVM    4.17  20 (P)   46 54.00  11.9X
SCX     5.21  79 (P)   46 58.00   1.1
TPX     5.58  98 (P)   46 51.00 -11.2X
TUL    20.12   5 ePc   50 13.30  -0.6
       1.6s    72.50nm          4.8mb
ALQ    20.52 340 eP    50 17.20  -1.2
       1.0s    11.75nm          4.2mb
GLA    22.97 321 eP    50 44.00   1.2
PLM    24.43 319 eP    50 39.00 -18.2X
GOL    24.67 346 iP    51 00.00   0.5
       1.1s    41.67nm          5.0mb
GSC    25.71 323 eP    51 09.00  -0.3
PNT    37.79 337 eP    52 55.00  -0.2
FFC    38.96 356 eP    53 06.00   1.1
       1.4s    50.00nm          5.0mb
HYB   146.81   6 ePKP  05 19.00  -1.1
     S.D. =  0.9  on  15 of  20 obs.
-----------------------------------------
?  JAN  28, 1991  08h 01m 26.42± 6.98s
   39.641 N ±36.1km   27.737 E ±43.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      MD 2.6 (ISK).

DST     0.69  93 iPg   01 40.00  -0.1
                iSg    01 49.00
EDC     0.71   8 iPg   01 41.00   0.6
                iSg    01 50.00
BNT     0.73  11 ePg   01 40.00  -0.7
                eSg    01 50.00
KCT     0.77  38 ePg   01 41.50   0.0
YLV     1.56  53 iPn   01 54.50   0.2
BBTK    3.88  85 eP    02 32.00   4.5X
     S.D. =  0.7  on   5 of   6 obs.
-----------------------------------------
?  JAN  28, 1991  08h 14m 21.78± 1.32s
   15.628 S ±43.8km  172.821 W ±35.1km
   DEPTH =  33.0km  (normal)
   4.5mb (  3 obs.)
 SAMOA ISLANDS REGION              (169)

AFI     1.98  31 P     14 53.00  -0.8
                eS     15 16.00
DZM    20.63 249 iPc   19 02.00   0.7
WRA    50.33 257 P     23 16.00  -1.9
       0.9s     3.70nm          4.4mb
ASPA   50.57 252 eP    23 15.80  -3.9X
       1.7s     8.60nm          4.5mb
SAO    71.13  42 eP    25 42.50   3.3X
FRI    72.38  42 eP    25 47.20   0.6
CMB    72.57  41 eP    25 48.20   0.4
WDC    72.81  38 eP    25 54.20   5.1X
PNT    79.91  32 eP    26 30.00   1.2
ALQ    80.52  50 eP    26 30.00  -2.6
FBA    82.52  10 ePc   26 43.00   0.9
       0.9s    12.50nm          5.0mb
SES    85.07  34 eP    26 56.00   0.6
BJI    86.03 313 eP    27 04.00   3.6X
GBA   112.27 279 PKP   33 14.00  17.3X
       0.3s     0.60nm
PRU   145.21 352 ePKP  33 58.50   0.9
LPF   146.98  10 ePKP  34 03.30   2.8X
       1.0s    14.00nm
CDF   147.31 360 ePKP  34 06.20   5.0X
HAU   147.71   1 ePKP  34 05.60   3.8X
       1.0s     8.00nm
LOR   148.33   4 ePKP  34 07.10   4.3X
SSF   148.51   5 ePKP  34 07.80   4.7X
       1.2s    14.90nm
LBF   148.62   4 ePKP  34 08.10   4.8X
     S.D. =  1.5  on  10 of  21 obs.
-----------------------------------------
   JAN  28, 1991  08h 22m 58.76± 0.35s
   27.039 N ± 7.9km   44.496 W ± 4.8km
   DEPTH =  10.0km  (geophysicist)
   4.9mb ( 22 obs.)  4.5Msz (  1 obs.)
 NORTH ATLANTIC RIDGE              (403)

SCH    32.18 336 eP    29 29.00   0.3
IFR    34.46  69 iPc   29 49.00   0.0
TOL    35.80  59 eP    29 52.00  -0.2X
RSCP   35.90 294 P     30 00.00  -1.1
EPF    39.54  54 eP    30 32.50   1.0
       1.5s    36.55nm          4.8mb
LPF    39.67  46 eP    30 32.70   0.2
       1.1s    19.55nm          4.7mb
FVM    39.89 298 P     30 35.50   1.1
       1.1s    97.56nm          5.4mb
MFF    39.89  49 eP    30 35.10   0.7
       1.4s    26.15nm          4.7mb
FR8    39.89 344 eP    30 34.00  -0.1
LFF    40.15  51 eP    30 36.70   0.2
RJF    40.75  51 eP    30 41.50   0.0
     Z  20s     0.68um          4.5Msz
LSF    40.95  50 eP    30 43.10   0.1
TCF    41.42  50 eP    30 47.30   0.4
       1.5s    26.10nm          4.7mb
AVF    42.29  49 eP    30 54.20   0.2
SSF    42.44  49 eP    30 55.30   0.0
       1.4s    17.45nm          4.6mb
BAO    42.55 185 ePc   30 57.50   0.9
SMF    42.59  50 eP    30 57.00   0.5
LOR    42.71  49 eP    30 57.40  -0.1
     Z  25s     0.82um          4.5MszX
LBF    42.74  49 eP    30 57.40  -0.4
TUL    44.21 295 ePc   31 09.50  -0.3
       0.8s     8.80nm          4.7mb
BNI    44.33  52 P     31 14.00   3.2X
LPG    44.43  52 eP    31 13.10   1.3
HAU    44.50  48 eP    31 11.90  -0.1
BSF    44.77  48 eP    31 13.90  -0.4
CDF    45.18  48 eP    31 17.40  -0.2
       1.5s    20.90nm          4.9mb
SIV    45.70 203 P     31 18.60  -3.3X
VAI    45.88  51 Pc    31 25.20   2.3
MEO    46.58 293 e(P)  31 29.10   0.4
SOTA   47.67  50 iPc   31 37.40   0.1
       1.6s    81.30nm          5.6mb
                i      31 44.00
                i      31 59.40
CTI    47.89  51 P     31 45.00   5.9X
GRF    47.92  46 eP    31 38.80  -0.3
     Z  24s     0.50um          4.4MszX
FVI    48.70  51 P     31 47.00   1.9
ZOBO   48.78 211 P     31 46.00  -0.7
       1.3s    19.72nm          5.0mb
     Z  24s     0.25um          4.1MszX
                LR     46 48.00
LPB    49.00 211 P     31 47.20  -1.0
CNCB   49.19 210 P     31 49.20  -0.6
CLL    49.25  44 e(P)  31 44.00  -5.3X
KHC    49.40  47 eP    31 50.70   0.1
FFC    49.73 320 eP    31 52.00  -0.9
       0.7s     6.00nm          4.7mb
BRG    49.79  45 eP    31 52.80  -0.7
       2.0s    44.00nm          5.1mb
PRU    50.09  46 eP    31 56.00   0.2
       2.0s    39.10nm          5.0mb
                e      32 14.00
NB2    50.24  32 P     31 56.60  -0.2
       1.4s    17.50nm          4.8mb
RSSD   50.26 306 P     31 56.70  -0.7
KSP    51.27  45 eP    32 02.50  -2.2
GLD    51.37 301 P     32 07.00   1.1
       1.1s    25.07nm          5.1mb
ZST    51.69  49 eP    32 06.80  -1.2
SRO    52.50  49 eP    32 12.40  -1.7
ALQ    52.97 295 eP    32 19.00   1.0
       1.8s    62.50nm          5.2mb
SPC    53.78  47 eP    32 22.70  -1.0
BW06   54.35 305 P     32 27.50  -0.5
       1.2s    27.40nm          5.2mb
SES    54.93 314 eP    32 35.00   3.0X
LRM    56.13 309 eP    32 47.70   6.7X
YKA    57.22 329 eP    32 45.70  -2.5
       1.1s     2.60nm          4.2mb
NEW    59.04 312 P     32 59.80  -1.4
       1.1s    37.04nm          5.4mb
MBC    60.35 345 eP    33 10.00   0.3
       1.0s     7.00nm          4.7mb
TNP    60.87 300 P     33 13.70  -0.4
       1.3s    13.78nm          4.9mb
TPC    60.89 296 eP    33 17.00   3.0
GSC    61.19 297 eP    33 18.00   1.8
CLC    61.69 298 eP    33 31.00  11.5X
PLM    61.73 295 eP    33 28.00   8.0X
RVR    61.98 296 eP    33 28.00   6.6X
SBB    62.16 297 eP    33 19.00  -3.7X
ISA    62.42 298 eP    33 25.00   0.6
MWC    62.47 296 eP    33 31.00   6.1X
CMB    63.31 301 eP    33 37.70   7.5X
                e      58 40.00
MIN    63.66 304 eP    33 39.30   6.7X
ORV    63.78 303 eP    33 40.80   7.6X
BCAO   64.02  99 iPc   33 34.20  -1.0
       0.9s    45.00nm          5.7mb
                id     33 40.90
                id     34 06.40
```

28d 08h

MHC 64.45 301 eP 33 46.80 9.0X
INK 64.82 336 eP 33 39.00 -0.6
LWI 76.19 100 iPc 34 50.30 0.6
NAI 82.83 95 iP 35 41.20 15.8X
1.0s 15.00nm
DZM 151.47 273 iPKPc 42 55.90 7.1X
S.D. = 1.0 on 54 of 72 obs.

• JAN 28, 1991 08h 47m 35.51± 0.69s
27.016 N ±10.3km 44.433 W ±16.3km
DEPTH = 10.0km (geophysicist)
4.6mb (5 obs.)
NORTH ATLANTIC RIDGE (403)

FRB 39.93 344 eP 55 12.00 0.8
TUL 44.27 295 eP 55 47.50 0.5
1.4s 20.90nm 4.8mb
ZOBO 48.79 211 P 56 23.00 -0.5
LPB 49.01 211 P 56 25.00 0.0
CNCB 49.20 210 P 56 26.80 0.2
ALQ 53.03 295 eP 56 56.00 0.8
1.2s 4.69nm 4.3mb
YKA 57.27 329 eP 57 23.60 -1.7
0.9s 1.50nm 4.0mb
MBC 60.38 345 eP 57 47.00 0.3
1.1s 7.00nm 4.7mb
BCAO 63.96 99 iPc 58 11.90 0.3
0.5s 5.00nm 5.0mb
INK 64.87 336 eP 58 16.00 -0.6
S.D. = 0.9 on 10 of 10 obs.

JAN 28, 1991 09h 06m 37.35± 0.78s
10.508 N ± 3.4km 125.707 E ± 4.7km
DEPTH = 59.5 ± 7.1 km
5.4mb (39 obs.)
LEYTE, PHILIPPINE ISLANDS (256)
Felt (II RF) at Palo. Also felt (II RF) at Moctan, Cebu and (I RF) at Cagayan de Oro, Mindonao.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 21C
Centroid Locotion:
Origin Time 09:06:39.6 0.5
Lat 9.97N 0.08 Lon 126.20E 0.08
Dep 15.0 FIX Half-duration 2.0
Moment Tensor; Scale 10**17 Nm
Mrr= 0.81 0.08 Mtt= 0.09 0.08
Mff=-0.90 0.10 Mrt= 0.76 0.21
Mrf= 1.16 0.24 Mtf=-0.49 0.09
Principal Axes:
T Val= 1.56 Plg=61 Azm=315
N 0.25 8 210
P -1.81 28 116
Best Double Couple:Mo=1.7*10**17
NP1:Strike=186 Dip=19 Slip= 65
NP2: 33 73 98

PLP 0.97 312 iPd 06 57.00 1.9
MAP 1.71 264 eP 07 06.00 0.8
CGP 2.27 206 iPc 07 14.00 0.9
eS 07 49.00
DAV 3.40 182 iPd 07 33.00 3.9X
PGP 5.52 303 ePd 08 01.00 2.1X
eS 08 56.00
OCP 6.11 313 eP 08 12.00 4.9X
PPR 6.91 265 iPd 08 20.50 2.2
iS 09 08.00
BAG 7.70 320 eP+ 08 28.00 -1.5
eS 10 04.00
CVP 8.09 333 eP 08 34.00 -0.6
eS 08 58.00
SZP 8.66 325 iPc 08 45.00 2.5X
MNI 9.05 186 eP 08 46.20 -1.7
PIP 9.20 328 iP 09 01.50 11.5X
TSM 9.81 231 ePd 09 05.80 7.5X
AAI 14.32 170 e(P) 10 06.40 8.0X
QZH 15.87 336 eP 10 15.00 -3.4X
0.8s 150.00nm 5.2mb
Z 18s 2.10um 4.3Msz
GZH 17.20 318 Pc 10 35.00 -0.2
Z 25s 4.70um
QIZ 17.51 301 Pc 10 39.00 -0.1
0.7s 100.00nm 5.1mb
N 15s 1.70um
E 20s 3.60um
GUA 19.02 79 e(P) 10 57.00 -0.5
JAY 19.75 130 ePc 11 04.50 -0.8
0.7s 94.90nm 5.2mb
SSE 20.91 349 iPd 11 17.50 0.4
6.0s 1000.00nm 5.3mb X
Z 20s 1.70um 4.4Msz
N 16s 1.00um
pP 11 27.50 39kmX
sP 11 32.00
S 15 00.00
sS 15 14.00
SS 15 30.00
KAGJ 21.13 12 eP 11 19.70 0.3
NJ2 22.36 345 Pc 11 32.00 0.5
5.0s 900.00nm 5.5mb X
sP 11 50.00
S 15 33.00
sS 15 52.00
KUMJ 22.42 11 eP 11 32.00 -0.2
WHN 22.56 334 Pc 11 34.50 1.0
5.0s 600.00nm 5.3mb X
Z 22s 1.30um 4.3Msz
E 19s 1.50um
pP 11 44.50 38kmX
KGM 23.78 251 eP 11 48.50 2.9X
GYA 23.98 314 iPc 11 48.40 0.8
4.0s 800.00nm 5.6mb X
Z 26s 2.40um 4.6MszX
N 14s 1.40um
E 14s 0.80um
ScP 19 01.60
PCT 24.07 282 iPc 11 50.20 1.9
0.4s 4.20nm 4.3mb X
LOE 24.24 289 eP 11 49.00 -1.0
MNDI 24.36 132 eP 11 53.00 1.5
SNG 25.01 264 eP 11 59.50 2.1
eS 19 06.10
IPM 25.16 258 ePd 12 00.80 2.0
0.9s 72.30nm 5.2mb
e 12 13.20
NST 25.42 284 eP 12 02.00 0.8
NNT 25.53 277 eP 12 04.00 1.8
KMI 26.19 307 Pc 12 08.00 -0.6
1.5s 50.00nm 4.8mb
Z 30s 4.30um 4.8MszX
sP 12 22.00
KNA 26.26 173 iPd 12 08.20 -0.7
TIA 26.75 344 Pc 12 12.30 -1.0
0.7s 40.00nm 5.1mb
E 15s 0.70um
eS 16 39.00
BDT 26.76 287 eP 12 13.00 -0.5
0.6s 386.00nm 6.2mb
CHG 27.15 291 ePc 12 16.30 -0.8
0.9s 34.45nm 5.0mb
XAN 28.02 329 iPc 12 22.60 -2.3
sP 12 37.00
S 16 59.40
MAT 28.28 22 (P) 12 24.00 -3.2X
DL2 28.51 353 P 12 29.00 -0.2
CD2 28.76 318 iPc 12 30.20 -1.4
0.8s 100.00nm 5.5mb
Z 24s 4.80um 5.0MszX
sP 12 50.00
PMG 29.10 132 eP 12 32.80 -1.9
TIY 29.60 338 iPc 12 38.40 -0.7
Z 28s 1.50um 4.5MszX
N 15s 1.20um
S 17 28.00
BJI 30.61 346 eP 12 47.00 -0.8
1.4s 98.00nm 5.3mb
Z 20s 0.96um 4.4Msz
eS 17 44.00
eSS 18 00.00
eScP 19 22.00
eScS 23 17.00
SNY 31.25 357 iPc 12 53.00 -0.5
0.8s 100.00nm 5.6mb
pP 13 02.20 32kmX
LZH 32.27 326 Pc 13 02.50 -0.2
4.0s 450.00nm 5.7mb X
Z 25s 3.27um 4.9MszX
N 13s 0.65um
E 13s 0.88um
pP 13 11.00 30kmX
sP 13 15.70
PP 14 07.50
eS 18 09.00
PcS 19 33.00
ScS 23 26.00
HHC 32.70 340 P 13 06.10 -0.2
Z 30s 1.60um 4.5MszX
S 18 21.00
BTO 33.03 338 P 13 09.00 -0.2
N 13s 0.50um
E 13s 0.50um
ePP 14 21.50
S 18 24.00
sS 18 48.00
CN2 33.17 360 eP 13 09.50 -0.7
Z 20s 1.50um 4.7Msz
N 14s 0.30um
E 14s 0.30um
epP 13 19.00 33kmX
ScP 19 29.00
ScS 23 28.00
QIS 33.76 156 iPd 13 13.90 -1.7
0.5s 36.00nm 5.5mb
MDJ 34.15 5 Pd 13 20.00 1.3
1.0s 70.00nm 5.5mb
PcS 19 40.00
ASPA 34.90 167 iPd 13 24.10 -1.3
0.7s 77.10nm 5.7mb
iS 18 46.80
WARB 36.48 179 iPd 13 39.30 0.6
0.5s 31.00nm 5.5mb
CTA 36.52 146 iPd 13 38.90 -0.1
1.0s 50.00nm 5.4mb
GTA 36.87 326 iPc 13 41.90 -0.1
8.0s 360.00nm 5.4mb X
Z 25s 2.90um 5.0MszX
E 15s 1.10um
sP 14 01.20
PcP 16 02.50
S 19 20.00
ScP 19 43.40
PcS 19 48.00
ScS 23 47.50
LSA 37.44 306 P 13 46.80 -0.5
eS 19 30.00
MEKA 37.55 191 eP 13 45.00 -2.7
MRWA 40.59 193 eP 14 14.00 1.1
GUN 41.17 301 P 14 17.60 -0.6
FORR 41.18 177 iPd 14 15.90 -1.7
COOL 41.39 186 eP 14 19.50 0.1
PKI 41.47 300 P 14 19.60 -1.0
DMN 41.74 300 P 14 21.80 -1.0
BAL 41.78 192 eP 14 23.30 0.7
GKN 42.25 300 P 14 25.60 -1.2
KLB 42.55 190 eP 14 28.30 -0.6
0.4s 50.00nm 5.6mb
MUN 43.21 192 eP 14 35.00 0.7
NWAO 43.94 190 eP 14 39.00 -1.2
0.5s 24.00nm 5.2mb
BRS 45.91 146 iP 14 55.00 -1.1
i 14 59.00
i 15 12.00
i(ScP) 20 20.00
CMS 45.99 156 eP 14 56.00 -0.6
e 16 43.00
HYB 46.18 284 iPc 14 58.30 0.0
0.8s 76.90nm 5.7mb
e 15 12.00
eS 21 42.00
WMQ 46.70 322 P 15 01.50 -0.6
0.7s 70.00nm 5.7mb
Z 22s 1.20um 4.8Msz
PP 16 49.50
ScP 20 20.50
S 21 46.30
sS 22 12.40
ScS 24 46.50
SS 25 04.50
GBA 47.25 279 Pc 15 06.00 -0.8
0.7s 58.30nm 5.6mb
KOD 47.42 274 eP 15 09.20 0.7
COO 47.98 149 eP 15 11.00 -1.3
NDI 48.76 299 eP 15 12.50 -5.9X
BFD 50.00 162 eP 15 29.00 1.3
i 15 42.00
POO 50.69 285 iPc 15 32.50 -0.8
CNB 50.77 155 iPd 15 34.40 0.7
0.9s 61.00nm 5.6mb
TOO 51.30 160 eP 15 38.00 0.4
e 15 51.00

DZM	51.43	129	iPc	15	38.90	0.0
BOM	51.68	286	eP	15	39.50	-1.2
			iS	22	57.50	
QUE	57.84	299	eP	16	23.90	-1.8
SDN	72.21	35	ePc	17	57.80	0.0
	1.0s	134.70nm			5.8mb	
TTA	75.37	28	ePc	18	17.70	1.6
	1.0s	34.30nm			5.2mb	
SVW	75.39	29	ePc	18	17.90	1.7
	0.9s	56.30nm			5.5mb	
BRW	76.12	19	ePd	18	22.00	1.9
IMA	76.65	24	ePd	18	25.00	1.6
	1.1s	85.70nm			5.6mb	
RSO	76.76	30	P	18	23.30	-0.8
SLKM	78.01	30	P	18	29.80	-1.0
PMR	78.53	29	ePc	18	34.30	0.7
	1.1s	77.40nm			5.6mb	
RND	78.64	27	P	18	34.10	-0.2
FBA	79.08	26	ePc	18	37.10	0.6
	0.8s	22.40nm			5.1mb	
TOA	79.92	29	ePc	18	43.10	1.9
	0.9s	160.80nm			6.0mb	
KEV	83.22	340	eP	18	57.00	-1.2
SOD	83.86	337	iP	19	00.70	-0.8
INK	84.27	22	ePd	19	03.90	0.4
	1.0s	46.00nm			5.5mb	
			pP	19	17.00	44kmX
KAF	85.16	332	iP	19	07.00	-1.1
	0.5s	11.30nm			5.2mb	
PRNI	85.38	300	eP	19	10.00	0.1
BBTK	85.60	310	eP	19	10.00	-0.9
MBC	85.60	13	ePc	19	10.00	-0.1
	0.5s	35.00nm			5.7mb	
			pP	19	25.50	54kmX
NUR	86.32	331	eP	19	13.00	-0.9
	0.7s	25.40nm			5.5mb	
			i	19	28.10	
VRI	88.72	316	ePd	19	29.00	3.2X
HFS	91.58	332	eP	19	36.20	-2.6X
	0.4s	2.90nm			5.0mb	
	Z 19s	0.33um			4.8Msz	
			LR	58	40.00	
KRA	91.93	322	eP	19	55.00	14.4X
NB2	92.30	334	P	19	39.90	-2.2
	0.7s	6.00nm			5.1mb	
YKA	93.77	24	eP	19	48.80	0.0
	0.8s	11.00nm			5.3mb	
KSP	93.85	323	eP	19	49.00	-0.4
			e	20	02.30	
PRU	95.21	323	eP	20	08.00	12.3X
BRG	95.21	324	eP	20	06.80	11.1X
KHC	96.13	322	eP	20	14.70	14.7X
MOX	96.65	324	eP	20	16.00	13.7X
PNT	97.57	37	eP	20	07.00	0.6
	0.9s	10.00nm			5.3mb	
NEW	99.51	37	P	20	15.50	0.2
	1.0s	13.50nm			5.4mb	
SES	101.88	33	ePdiff	20	26.00	0.2
FFC	103.68	26	ePdiff	20	34.00	0.4
	1.2s	14.00nm			5.7mb	
FRB	105.17	7	ePdiff	20	39.00	-1.0
FRB	105.17	7	ePKP	24	59.00	4.9X
TUL	119.48	38	ePKP	25	22.10	-0.2
	0.8s	7.10nm				
KIC	127.89	287	PKP	25	38.50	-0.6
TIC	128.07	287	PKP	25	38.80	-0.6
LIC	128.21	287	PKP	25	39.20	-0.4
	Z 20s	0.26um			4.9Msz	
UPA	148.29	53	iPKPc	26	19.70	3.9X
	1.3s	134.62nm				
			i	26	35.20	
ANCC	153.56	59	ePKPc	26	24.20	0.4
CLMC	153.62	58	ePKPc	26	25.37	1.3
HOOC	153.78	59	ePKP	26	25.14	0.7
SALC	153.99	60	ePKPc	26	25.48	0.9
NNA	157.84	96	ePKP	26	30.50	1.2
	0.9s	7.56nm				
PDCR	165.00	261	ePKP	26	37.90	1.4
			e	26	52.00	
			e	27	48.00	
CNCB	165.30	117	PKP	26	39.00	1.5
LPB	165.31	116	PKPc	26	38.70	1.4
	1.0s	32.00nm				
ZOBO	165.38	115	iPKPc	26	39.00	1.5
	1.0s	17.50nm				
SOB1	166.74	274	ePKP	26	40.30	2.3
PPD	168.19	194	ePKP	26	40.20	1.4
SIV	171.44	130	PKP	26	41.70	1.0
	S.D. = 1.1	on 116 of 136 obs.				

% JAN 28, 1991 09h 10m 22.12± 1.45s
38.028 N ± 8.5km 30.473 E ±17.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.1 (ISK).

BCK	0.57	171	iPg	10	33.00	-0.8
KHL	0.80	292	iPg	10	36.30	-1.5
			iSg	10	49.00	
ALT	1.06	345	iPn	10	41.70	-0.5
ELL	1.35	200	ePn	10	48.00	0.9
YER	1.95	244	ePn	10	56.00	0.3
DST	2.13	318	ePn	11	00.00	1.7
	S.D. = 1.5	on 6 of 6 obs.				

% JAN 28, 1991 09h 20m 24.17± 1.49s
49.086 N ± 8.3km 7.215 E ±14.1km
DEPTH = 10.0km (geophysicist)
GERMANY (543)

KTD	0.62	67	ePg	20	37.67	1.1
RUP	0.62	351	ePg	20	36.56	-0.2
ABH	0.83	15	ePg	20	40.45	0.3
TOD	1.16	63	ePg	20	44.59	-1.3
FEL	1.32	156	ePg	20	48.71	0.0
	S.D. = 1.2	on 5 of 5 obs.				

JAN 28, 1991 09h 46m 10.07± 0.47s
27.063 N ± 9.5km 44.515 W ± 5.8km
DEPTH = 10.0km (geophysicist)
4.5mb (17 obs.) 4.3Msz (1 obs.)
NORTH ATLANTIC RIDGE (403)

EPF	39.53	54	eP	53	43.70	0.9
LPF	39.66	46	eP	53	44.20	0.5
FRB	39.87	344	eP	53	46.00	0.8
MFF	39.89	49	eP	53	45.90	0.3
	1.1s	14.65nm			4.6mb	
LFF	40.14	51	eP	53	48.00	0.2
	0.6s	9.00nm			4.6mb	
FLN	40.22	45	eP	53	48.30	-0.1
LDF	40.41	46	eP	53	49.90	0.0
	1.2s	23.80nm			4.8mb	
LSF	40.94	50	eP	53	54.50	0.2
TCF	41.41	50	eP	53	58.40	0.2
	0.7s	3.30nm			4.2mb	
AVF	42.28	49	eP	54	05.50	0.2
	0.9s	3.30nm			4.1mb	
SSF	42.44	49	eP	54	06.50	0.0
	0.7s	3.30nm			4.2mb	
SMF	42.59	50	eP	54	07.90	0.1
	1.0s	12.00nm			4.6mb	
LQR	42.71	49	eP	54	08.70	-0.1
LBF	42.74	49	eP	54	08.70	-0.4
	0.7s	2.75nm			4.1mb	
TUL	44.18	295	eP	54	20.60	-0.3
	1.0s	8.00nm			4.5mb	
	Z 21s	0.40um			4.3Msz	
			LR	06	34.70	
HAU	44.50	48	eP	54	22.70	-0.6
	0.7s	4.40nm			4.4mb	
BSF	44.76	48	eP	54	25.00	-0.6
	1.0s	8.00nm			4.6mb	
SIV	45.72	203	P	54	33.60	0.3
VAI	45.87	51	Pc	54	37.00	2.8X
CTI	47.89	51	Pc	54	57.00	6.6X
CCH	48.91	208	P	55	13.50	14.8X
LPB	49.01	211	P	54	49.00	-10.6X
KHC	49.40	47	P	55	02.00	0.2
FFC	49.70	320	eP	55	04.00	0.0
	0.8s	6.00nm			4.6mb	
NB2	50.23	32	P	55	07.80	-0.2
	1.7s	20.70nm			4.8mb	
ALQ	52.94	295	eP	55	30.00	0.9
	1.3s	8.65nm			4.5mb	
YKA	57.19	329	eP	55	57.60	-1.7
	1.1s	1.80nm			4.0mb	
MBC	60.32	345	eP	56	21.00	0.1
	1.0s	11.00nm			4.9mb	
BCAO	64.04	99	iPd	56	45.90	-0.8
	0.7s	9.00nm			5.1mb	
			ic	56	58.40	
DZM	151.45	273	iPKPc	06	07.50	7.5X
	S.D. = 0.6	on 25 of 30 obs.				

JAN 28, 1991 09h 50m 48.80± 0.40s
31.424 S ± 6.2km 69.282 W ± 9.3km
DEPTH = 117.8 ± 5.6 km
4.0mb (2 obs.)
SAN JUAN PROVINCE, ARGENTINA (137)
Felt (III) in the Sierro del Tontal area.

RTLL	0.70	83	iPc	51	07.60	-0.7
RTCV	0.77	125	eP	51	08.70	-0.1
RTRS	1.26	353	ePd	51	14.50	0.9
MDZ	1.50	166	eP	51	19.00	2.5
			iS	51	39.30	
JACH	1.68	221	iP	51	19.30	0.6
			iS	51	42.60	
FCH	2.08	204	iPc	51	24.80	0.8
			iS	51	52.50	
PEL	2.09	214	iPc	51	23.70	-0.1
			iS	51	48.50	
ROCH	2.13	223	eP	51	24.00	-0.5
			iS	52	50.20	
SAN	2.34	210	eP	51	27.00	0.0
			i	51	56.50	
PCH	2.43	205	iPd	51	28.50	0.3
			iS	52	56.50	
TACH	2.63	212	eP	51	30.20	-0.6
			iS	52	00.00	
LCCH	2.81	223	eP	51	32.50	-0.7
			iS	52	02.20	
LNV	3.10	215	iPc	51	35.30	-1.7
			i	52	06.00	
CYA	4.24	46	iPd	51	51.00	-1.5
ANT	7.75	352	eP	52	38.50	-1.9
CNCB	14.60	5	P	54	13.00	1.7
ZOBO	15.12	4	P	54	18.90	0.9
			i	54	58.00	
			LR	09	46.00	
TUL	71.45	338	ePc	01	58.10	0.0
	0.6s	2.80nm			4.3mb	
KIC	72.05	71	P	02	01.60	-0.5
ALO	74.70	329	eP	02	18.00	0.6
LRM	86.26	331	eP	03	19.70	1.3
YKA	100.39	340	ePdiff	04	22.60	-0.3
	0.7s	0.20nm			3.8mb	
WRA	124.12	207	PKP	09	35.00	-0.4
	0.3s	0.90nm				
GBA	144.70	113	PKP	10	13.00	-0.6
	S.D. = 1.1	on 24 of 24 obs.				

JAN 28, 1991 10h 01m 12.44± 0.37s
41.112 N ± 4.2km 22.460 E ± 3.1km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 3.5 (SKO), 3.5 (TTG). Felt (IV) in the Gevgelijo area.

VAY	0.22	22	iPg	01	17.00	-0.3
			i	01	19.30	
			iSg	01	20.30	
KNT	0.33	81	iP	01	19.50	0.1
THE	0.61	141	iP	01	24.20	-0.6
			iS	01	32.50	
SOH	0.74	113	iP	01	26.50	-0.4
SRS	0.86	89	iP	01	29.00	0.1
			eS	01	40.50	
FNA	0.88	249	iP	01	28.50	-0.9
KKB	0.89	32	iPc	01	29.00	-0.5
LIT	1.01	179	iP	01	31.50	-0.1
			iS	01	48.00	
MMB	1.07	63	iPgc	01	33.00	0.4
SKO	1.15	319	iPgc	01	33.30	-0.7
	0.4s	476.00nm				
			i	01	39.00	
			i	01	48.60	
			Lg	01	55.50	
QHR	1.25	271	iPgc	01	35.00	-0.8
	1.1s	1428.00nm				
			iSg	01	51.50	
			Lg	01	59.40	
VTS	1.58	20	iPc	01	41.00	0.3
RZN	1.79	71	eP	01	45.00	1.2
PLD	1.95	59	eP	01	45.00	-0.9
AGG	2.09	183	iP	01	48.20	0.2
KDZ	2.29	75	iPc	01	50.00	-0.9
PVY	2.38	309	ePn	01	53.00	0.8
			eSn	02	23.50	

28d 10h

ULC	2.56	290	ePn	01 57.50	2.9X	
			eSn	02 32.00		
IVA	2.60	313	ePn	01 55.00	-0.2	
			eSn	02 28.50		
TTG	2.73	300	ePn	01 58.60	1.5	
			eSn	02 32.50		
BDV	2.96	294	ePn	02 03.00	2.6X	
			eSn	02 40.00		
NKY	3.09	305	ePn	02 02.60	0.3	
			eSn	02 42.00		
PLE	3.18	315	ePn	02 02.50	-1.0	
			eSn	02 41.00		
EZN	3.22	112	ePn	02 07.00	3.0X	
HCY	3.25	296	ePn	02 06.80	2.3	
			eSn	02 48.00		
BRY	3.42	303	ePn	02 08.60	1.6	
			eSn	02 50.00		
BEO	3.99	339	ePn	02 20.00	5.1X	
DMK	4.04	78	ePn	02 13.00	-2.7X	
BZS	4.54	353	ePc	02 23.50	0.7	
DST	4.95	106	eP	02 30.00	1.4	
ISK	4.99	88	eP	02 29.00	-0.1	
HRT	5.46	91	eP	02 40.00	4.1X	
VRI	5.68	32	eP	02 43.00	4.1X	
ZST	8.04	333	eP	03 10.50	-1.5	
SOTA	10.13	311	eP	03 39.00	-2.0	
	0.7s		5.20nm		5.1mb	
			i	03 51.50		
HYB	53.32	99	ePc	10 21.70	-12.4X	
GBA	54.92	103	P	10 43.00	-2.7X	
	S.D. = 1.0		on	28 of 37 obs.		

JAN 28, 1991 10h 09m 41.60± 0.94s
41.112 N ± 7.0km 22.417 E ± 7.7km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.7 (SKO).

GRG	0.16	184	iPc	09 45.66	0.4	
			eS	09 48.52		
VAY	0.24	29	iPg	09 46.70	0.0	
			iSg	09 50.30		
KNT	0.37	82	iPc	09 49.33	0.2	
			eS	09 54.44		
THE	0.63	139	ePc	09 53.92	-0.4	
			iS	10 02.12		
SOH	0.77	112	eP	09 56.60	0.0	
			eS	10 06.48		
IGT	2.24	226	iP	10 19.14	-0.2	
	S.D. = 0.4		on	6 of 6 obs.		

• JAN 28, 1991 10h 19m 53.60± 0.97s
3.559 N ±11.3km 82.848 W ± 9.7km
DEPTH = 33.0km (normal)
4.1mb (2 obs.)
SOUTH OF PANAMA (83)

ANCC	5.97	90	eP	21 22.23	0.1	
SALC	6.17	95	eP	21 24.66	-0.4	
HOQC	6.20	91	eP	21 25.90	0.3	
CLMC	6.28	87	eP	21 27.12	0.5	
UPA	6.31	31	iPc	21 27.40	0.5	
	0.7s		153.42nm		5.8mb X	
DIAC	6.64	92	eP	21 32.07	0.4	
HOBC	6.74	83	eP	21 31.82	-1.2	
			eS	22 44.70		
ZOBO	24.50	144	eP	25 11.00	-0.9	
	1.0s		11.50nm		4.4mb	
			i	25 14.30		
CNCB	25.01	144	P	25 18.00	1.2	
CCH	26.55	142	(P)	25 22.00	-8.9X	
ALQ	38.14	328	e(P)	27 13.00	1.2	
YKA	63.34	344	eP	30 19.80	-1.7	
	0.9s		0.60nm		3.7mb	
	S.D. = 1.1		on	11 of 12 obs.		

& JAN 28, 1991 10h 24m 06.15s
57.605 N 138.060 W
DEPTH = 10.0km (geophysicist)
OFF COAST OF SOUTHEASTERN ALASKA(20)
<AEIC>.

PLBC	2.06	25	eP	24 35.50	-5.7	
			eS	24 59.90		
HYT	3.24	5	eP	24 53.30	-4.9	
			eS	25 36.50		
TCBC	3.65	82	eP	24 59.40	-4.5	
			eS	25 54.00		
BALM	4.08	329	eP	25 03.90	-6.1	
YKA	12.66	57	eP	27 01.90	-6.9	
	0.6s		0.20nm		3.5mb	
	5 obs. associated					

JAN 28, 1991 10h 58m 08.75± 0.48s
41.108 N ± 4.5km 22.445 E ± 4.0km
DEPTH = 9.2 ± 4.7 km
YUGOSLAVIA (383)

GRG	0.15	192	iPc	58 12.12	-0.2	
KNT	0.35	81	iPc	58 15.78	-0.1	
			eS	58 21.04		
THE	0.62	140	eP	58 20.28	-0.9	
			eS	58 28.84		
SOH	0.75	112	iPc	58 23.00	-0.5	
			iS	58 33.32		
SRS	0.87	89	iP	58 25.26	-0.2	
			eS	58 37.20		
FNA	0.87	249	eP	58 24.68	-0.9	
			eS	58 36.60		
KKB	0.90	32	iPc	58 25.00	-1.0	
LIT	1.01	178	ePc	58 27.40	-0.5	
			eS	58 42.80		
MMB	1.08	63	iPgc	58 29.00	-0.1	
SKO	1.15	319	iPgc	58 29.70	-0.6	
	0.6s		139.00nm			
			iSg	58 45.20		
			Lg	58 49.80		
OHR	1.24	271	iPg	58 31.60	-0.4	
			iSg	58 48.20		
OUR	1.40	123	eP	58 34.40	0.0	
			iS	58 53.72		
PAIG	1.51	141	ePc	58 36.76	0.9	
			eS	58 57.16		
VTS	1.59	21	iPg	58 38.00	0.8	
RZN	1.80	71	iPd	58 44.00	3.6X	
PGB	1.93	41	eP	58 42.00	-0.1	
PLD	1.96	59	eP	58 47.00	4.5X	
AGG	2.09	182	ePc	58 43.96	-0.4	
			eS	59 11.56		
IGT	2.26	226	eP	58 48.56	1.8	
			eS	59 18.64		
KDZ	2.30	75	eP	58 51.00	3.6X	
ALN	2.73	93	ePc	58 54.32	0.8	
			eS	59 27.60		
	S.D. = 0.8		on	18 of 21 obs.		

JAN 28, 1991 11h 12m 59.21± 0.44s
46.573 N ± 3.6km 1.502 E ± 3.6km
DEPTH = 9.6 ± 3.5 km
FRANCE (538)
ML 3.0 (LDG).

LSF	0.32	177	Pg	13 05.30	-0.6	
			Sg	13 08.70		
TCF	0.57	120	Pg	13 09.80	-0.9	
			Sg	13 16.40		
MAF	0.82	115	Pg	13 14.60	-0.5	
			Sg	13 24.60		
			Sn	13 27.30		
BGF	0.93	90	Pg	13 16.80	-0.2	
			Sg	13 29.20		
MFF	1.14	272	Pn	13 21.10	0.6	
			Pg	13 21.90		
			Sg	13 36.50		
			Sn	13 37.90		
RJF	1.27	180	Pn	13 22.90	0.1	
			Pg	13 23.10		
			Sg	13 38.50		
AVF	1.29	80	Pn	13 23.30	0.1	
			Pg	13 23.80		
			Sg	13 39.60		
GRC	1.30	56	Pg	13 23.99	0.7	
			Sg	13 39.85		
PYM	1.33	128	Pg	13 24.01	0.1	
			Sg	13 40.49		
SSF	1.46	70	Pn	13 25.70	0.0	
			Pg	13 26.90		
			Sg	13 44.60		
SMF	1.61	87	Pn	13 27.70	-0.2	
			Pg	13 29.40		
			Sg	13 49.90		
CAF	1.69	166	Pg	13 29.70	0.6	
			Sg	13 51.20		
LFF	1.72	198	Pn	13 28.50	-0.9	
			Pg	13 31.40		
			Sg	13 53.00		
LBF	1.75	76	Pn	13 29.50	-0.4	
			Pg	13 31.80		
			Sn	13 50.60		
			Sg	13 54.00		
LOR	1.76	66	Pn	13 29.70	-0.3	
			Pg	13 32.00		
			Sg	13 54.50		
LBL	1.81	137	Pg	13 32.16	1.5	
			Sg	13 55.46		
LPO	1.90	187	Pg	13 34.60	2.5X	
			Sg	13 57.60		
LPF	2.26	311	Pn	13 37.50	0.2	
			Pg	13 43.00		
			Sg	14 12.50		
LDF	2.30	332	Pn	13 37.20	-0.6	
			Pg	13 43.50		
			Sg	14 14.50		
GRR	2.42	319	Pn	13 38.80	-0.7	
			Pg	13 45.20		
			Sg	14 17.50		
FLN	2.57	329	Pg	13 48.60	7.0X	
			Sg	14 22.80		
	S.D. = 0.7		on	19 of 21 obs.		

% JAN 28, 1991 11h 16m 51.37± 0.72s
41.095 N ± 6.6km 22.439 E ± 5.6km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)

GRG	0.14	192	iPc	16 55.14	0.4	
			eS	16 57.86		
VAY	0.25	24	iPg	16 56.50	-0.1	
			iSg	17 00.00		
KNT	0.35	79	eP	16 58.98	0.3	
			eS	17 04.10		
THE	0.61	139	eP	17 03.22	-0.4	
			eS	17 11.86		
SOH	0.74	111	ePc	17 05.98	0.0	
			eS	17 16.78		
FNA	0.86	249	ePc	17 07.90	-0.1	
			eS	17 19.18		
SRS	0.87	88	ePc	17 08.10	0.0	
			eS	17 20.22		
	S.D. = 0.4		on	7 of 7 obs.		

? JAN 28, 1991 11h 41m 45.65± 2.06s
17.158 N ±14.4km 121.622 E ±16.8km
DEPTH = 10.0km (geophysicist)
LUZON, PHILIPPINE ISLANDS (249)

CVP	0.58	19	eP	41 57.00	-0.3	
			eS	42 06.00		
SZP	1.18	290	iPc	42 07.00	-0.7	
			iS	42 26.00		
BAG	1.24	233	eP	42 09.00	0.1	
			eS	42 26.00		
PIP	1.50	321	iPc	42 13.50	0.9	
	S.D. = 1.1		on	4 of 4 obs.		

• JAN 28, 1991 12h 33m 10.53± 1.30s
15.064 S ±15.1km 166.962 E ±15.8km
DEPTH = 123.4 ± 11.6 km
4.6mb (1 obs.)
VANUATU ISLANDS (186)

BKM	2.87	155	iP	33 55.30	-0.5	
			iS	34 33.50		
PVC	2.96	154	iP	33 58.00	1.0	
			iS	34 37.00		
DZM	6.99	184	iPc	34 51.20	-0.6	
			iS	36 10.10		
VSG	9.14	308	eP	35 21.00	0.1	
			eS	37 03.00		
ASPA	32.28	249	iPc	39 29.60	-0.1	
	0.4s		4.60nm		4.6mb	
GUN	89.30	299	P	45 54.40	-0.4	
PKI	89.60	299	P	45 56.20	0.0	
DMN	89.86	299	P	45 57.60	0.3	
FLN	144.85	346	ePKP	52 32.70	-1.7	
LDF	144.91	345	ePKP	52 32.40	-2.1	
LOR	144.95	340	ePKP	52 33.20	-1.4	
	0.7s		5.50nm			
LBF	145.16	339	ePKP	52 33.80	-1.2	
SSF	145.25	340	ePKP	52 34.30	-0.8	
	0.7s		23.15nm			

GRR	145.29	346	ePKP	52 34.00	-1.1
	0.7s	14.35nm			
LPL	145.37	335	ePKP	52 35.30	-0.4
	0.5s	7.30nm			
LPG	145.38	335	ePKP	52 35.50	-0.3
	0.5s	10.20nm			
SMF	145.50	339	ePKP	52 35.00	-0.6
	0.7s	5.50nm			
AVF	145.54	340	ePKP	52 35.20	-0.4
	0.7s	4.40nm			
LPF	145.66	346	ePKP	52 35.40	-0.4
	0.7s	14.35nm			
BGF	145.91	340	ePKP	52 36.20	-0.1
	0.5s	10.95nm			
MAF	146.29	340	ePKP	52 37.50	0.6
	0.7s	4.95nm			
TCF	146.35	341	ePKP	52 37.50	0.5
	0.5s	2.90nm			
SBF	146.41	333	ePKP	52 38.40	1.1
	0.7s	17.65nm			
LSF	146.60	342	ePKP	52 38.00	0.6
PGF	146.69	330	ePKP	52 38.60	0.8
MFF	146.76	344	ePKP	52 38.60	1.0
	0.5s	6.55nm			
FRF	146.99	333	ePKP	52 39.40	1.3
BCAO	147.19	254	iPKPc	52 41.10	1.8
	0.3s	6.00nm			
LRG	147.20	333	ePKP	52 40.30	1.9
LMR	147.23	333	ePKP	52 40.00	1.5
RJF	147.45	341	ePKP	52 40.80	2.0X
	0.5s	4.35nm			
CAF	147.60	340	ePKP	52 41.40	2.3X
LFF	148.02	341	ePKP	52 42.40	2.7X
	0.5s	5.85nm			
LPO	148.11	341	ePKP	52 42.70	2.9X
	0.5s	5.10nm			

S.D. = 1.1 on 30 of 34 obs.

& JAN 28, 1991 12h 40m 08.18s
41.875 N 112.588 W
DEPTH = 8.7km
UTAH (478)
<SLC-P>. ML 3.1 (SLC).

PTI	1.01	9	eP	40 27.30	-0.2
DUG	1.69	186	eP	40 37.80	-0.4
DAU	1.77	145	eP	40 39.70	0.1
BW06	2.42	67	eP	40 51.00	2.1
MSU	3.37	174	eP	41 02.00	-0.4
	5 obs. associated				

JAN 28, 1991 12h 58m 48.73± 0.35s
41.985 S ± 3.7km 171.701 E ± 2.8km
DEPTH = 27.2 ± 2.7 km
5.9mb (27 obs.) 5.3Msz (21 obs.)
SOUTH ISLAND, NEW ZEALAND (162)
ML 6.0 (WEL). Mo=3.0**10**17 Nm (PPT). Slight damage (VI) in the Westport area. Felt in large parts of South Island.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 39C
Centroid Locotion:
Origin Time 12:58:51.0 0.3
Lat 41.76S 0.04 Lon 171.70E 0.05
Dep 15.0 FIX Half-duration 2.2
Moment Tensor; Scale 10**17 Nm
Mrr= 3.03 0.09 Mtt=-0.94 0.13
Mff=-2.09 0.12 Mrt= 0.65 0.37
Mrf=-2.20 0.35 Mtf=-2.56 0.10
Principal Axes:

T	Val= 4.33	Plg=59	Azm= 53
N	0.05	29	209
P	-4.39	11	305

Best Double Couple:Mo=4.4**10**17
NP1:Strike= 66 Dip=42 Slip= 136
NP2: 192 62 57

RTY	0.87	79	iPd	59 04.80	-0.2
LTZ	0.90	152	Pd	59 06.70	1.2
			eS	59 19.70	
THZ	0.92	77	Pd	59 05.30	-0.6
			eS	59 18.80	
KHZ	1.43	108	Pc	59 14.50	1 4
			eS	59 35.40	
MQZ	1.86	158	Pc	59 19.50	0.3
CCW	1.89	84	P	59 21.60	1.8
TCW	2.08	69	P	59 22.80	0.3
MRW	2.37	73	Pc	59 27.30	0.7
WEL	2.40	74	P	59 27.60	0.6
BHW	2.44	77	ePn	59 27.60	0.0
WDW	2.57	75	Pc	59 29.20	-0.2
TMP	2.60	206	Pn	59 31.00	1.1
KIW	2.66	66	P	59 31.10	0.4
CAW	2.67	72	Pc	59 30.90	0.0
MOW	2.72	79	Pc	59 30.80	-0.7
BLW	2.89	79	P	59 32.90	-1.1
MTW	2.97	75	P	59 33.90	-1.2
MNG	3.16	66	Pc	59 37.00	-0.8
NEZ	3.26	35	P	59 40.00	0.6
			S	00 19.00	
MSCZ	3.52	207	Pn	59 42.10	-0.9
MHZ	3.54	209	Pc	59 42.00	-1.4
MMCZ	3.55	211	Pc	59 42.30	-1.2
SBCZ	3.56	208	Pn	59 42.00	-1.5X
LSCZ	3.56	208	Pn	59 42.50	-1.0
TBC	3.60	208	Pn	59 41.80	-2.3X
CMCZ	3.62	208	Pn	59 43.80	-0.6
PGZ	3.70	70	Pc	59 43.10	-2.4X
MSZ	3.85	225	P	59 47.00	-0.5
CNZ	4.04	48	P	59 49.40	-1.0
NGZ	4.08	48	eP	59 49.90	-1.2
KETZ	4.17	48	eP	59 51.10	-1.1
WAHZ	4.20	59	Pn	59 51.20	-1.5
RATZ	4.40	46	P	59 54.50	-0.9
HITZ	4.51	45	eP	59 55.90	-1.2
HATZ	4.56	49	eP	59 55.80	-1.9
TTH	4.59	60	eP	59 55.60	-2.6X
WHH	4.79	51	Pd	59 58.00	-3.0X
WLZ	5.10	37	P	00 02.80	-2.6X
UTU	5.13	44	eP	00 02.30	-3.5X
PAHZ	5.14	54	Pn	00 03.20	-2.7X
TAZ	5.25	46	eP	00 04.80	-2.7X
OBZ	5.55	206	P	00 10.40	-1.2
PUZ	6.37	54	P	00 17.90	-5.3X
HBZ	6.71	51	eP	00 23.90	-4.0X
RIV	18.11	290	ePd	03 01.00	1.1
Z	18s	12.92um			
			iS	06 37.20	
CNB	18.65	284	iPc	03 08.40	1.8
			eS	06 48.00	
			eTT	18 24.00	
COO	19.56	299	eP	03 21.00	3.6X
	1.0s	71.00nm		4.9mb X	
DZM	20.34	346	iPc	03 25.30	-0.4
TOO	20.59	274	iPc	03 29.60	1.4
			eS	07 32.00	
			e(TT)	18 33.00	
BRS	21.24	307	iPc+	03 37.00	2.1
Z	18s	50.00um		5.9Msz	
			i	03 58.00	
			iS	07 30.00	
BFD	22.92	272	eP	03 55.00	3.5X
			i	04 32.00	
			eTT	19 02.00	
CMS	23.15	289	iPc	03 56.00	2.3
PVC	24.34	352	iPc	04 06.50	1.2
RMQ	24.36	302	iPc	04 06.50	1.0
	0.8s	160.00nm		5.6mb	
			e	11 19.00	
VUN	24.59	16	eP	04 07.10	-0.6
NDF	24.64	13	eP	04 07.70	-0.6
MBU	25.64	16	ePc	04 17.60	-0.2
ADE	26.65	274	iPc	04 27.70	0.7
	1.5s	516.67nm		5.9mb	
OLP	27.25	296	iPc	04 33.70	1.2
CTA	30.65	308	iPc+	05 03.20	0.1
	1.7s	384.62nm		5.9mb	
			iS	10 04.00	
			iScP	11 38.00	
			iScS	15 40.00	
HNR	34.04	339	eP	05 34.00	1.4
OIS	34.46	298	iPc	05 36.00	-0.3
	0.9s	71.00nm		5.6mb	
SBA	36.04	182	iPd	05 52.20	3.2X
ASPA	36.28	288	iPc	05 51.10	-0.6
	1.6s	266.50nm		5.9mb	
Z	20s	13.50um		5.7Msz	
			iS	11 31.20	
			iScP	11 57.40	
			iScS	16 02.30	
TBI	37.22	72	iP	06 00.40	0.9
	1.2s	160.00nm		5.7mb	
WRA	38.42	293	P	06 09.00	-0.7
	1.9s	175.90nm		5.5mb	
PMG	38.98	319	eP	06 16.00	1.6
WARB	40.03	279	eP	06 23.00	-0.1
AFR	40.88	65	iP	06 31.20	1.2
	1.5s	515.00nm		6.0mb	
PAE	40.92	66	iP	06 31.70	1.3
	1.5s	410.00nm		5.9mb	
PPT	40.99	65	iP	06 32.30	1.3
	1.5s	555.00nm		6.1mb	
TVO	41.06	66	iP	06 33.00	1.4
	1.5s	330.00nm		5.8mb	
PPN	41.11	66	iP	06 33.40	1.4
	1.5s	350.00nm		5.9mb	
RAB	41.48	330	eP	06 32.00	-3.0X
			eS	12 44.00	
NWAO	43.54	264	eP	06 50.80	-0.9
Z	22s	4.30um		5.3Msz	
N	22s	1.30um			
E	22s	3.10um			
			eS	13 28.00	
KLB	43.79	266	eP	06 52.70	-1.0
PMO	43.94	65	iP	06 55.60	0.6
	1.5s	660.00nm		6.2mb	
VAH	43.95	65	iP	06 55.70	0.6
	1.5s	360.00nm		6.0mb	
TPT	44.14	65	iP	06 57.20	0.5
	1.5s	445.00nm		6.1mb	
RUV	44.15	65	iP	06 57.50	0.7
	1.5s	495.00nm		6.1mb	
MUN	44.75	264	eP	07 01.00	-0.5
KNA	45.14	292	eP	07 05.00	0.3
MTN	45.61	297	iPd	07 09.00	0.6
MEKA	45.81	272	eP	07 08.60	-1.4
	0.5s	34.00nm		5.5mb	
MBL	48.02	279	eP	07 26.00	-1.5
SPA	48.21	180	iPc	07 30.50	1.9
	1.0s	70.00nm		5.6mb	
Z	19s	2.53um		5.2Msz	
MAW	58.44	205	eP	08 44.40	0.5
GUA	60.51	330	e(P)	08 56.00	-2.7X
DAV	64.46	308	eP	09 24.50	-0.6
	1.2s	250.00nm		6.2mb	
AIA	64.61	157	eP	09 26.70	1.3
CGP	66.07	308	iPc	09 34.80	-0.6
TSM	66.91	299	ePc	09 42.90	2.1
MAP	67.98	308	ePc	09 46.00	-1.5
PPR	70.72	304	ePd	10 04.00	-0.4
OCP	73.11	309	eP	10 22.00	3.4X
BAG	74.81	309	eP	10 26.00	-2.6X
CRZF	77.01	218	eP	10 48.00	7.5X
			eS	20 42.00	
IPM	78.87	287	ePd	10 51.70	0.5
SNG	80.96	288	eP	11 03.50	1.2
MAT	83.93	333	eP	11 16.00	-1.2
	2.2s	269.23nm		6.1mb	
			eS	21 48.00	
LNV	84.82	132	eP	11 22.50	0.6
TACH	85.31	132	eP	11 25.00	0.5
NNT	85.35	291	eP	11 25.70	0.9
PCH	85.57	132	eP	11 26.50	0.6
PCT	85.67	294	eP	11 25.70	-0.6
	1.0s	31.70nm		5.5mb	
ROCH	85.78	131	eP	11 28.00	0.9
PEL	85.83	132	iPc	11 28.00	0.9
	1.0s	295.00nm		6.5mb	
FCH	85.91	132	eP	11 29.00	1.1
JACH	86.23	132	eP	11 31.50	2.3X
SSE	86.32	318	Pc	11 28.00	-1.2
	5.0s	900.00nm		6.3mb X	
Z	20s	1.10um		5.3Msz	
N	16s	1.00um			
			PP	14 52.00	
			S	21 54.00	
			sS	22 13.00	
NST	87.24	294	eP	11 35.00	1.0
LOE	87.38	296	eP	11 35.00	0.3
NJ2	88.26	317	Pc	11 39.00	0.5
	5.5s	800.00nm		6.3mb X	
Z	20s	0.50um		4.9Msz	
BDT	89.11	294	eP	11 43.00	0.1
WHN	89.43	313	Pc	11 44.70	0.6
	5.0s	1000.00nm		6.4mb X	
			sP	12 00.50	
			SKS	22 09.00	
CHG	90.25	295	ePd	11 50.00	1.7
	1.5s	106.94nm		5.9mb	

28d 13h

GYA	90.76	306	iPc	11	51.60	1.0
	3.0s	1000.00nm				6.6mb
	Z 36s	0.90um				4.9MszX
		sP	12	06.00		
		SKS	22	19.00		
		S	22	48.00		
LPA	90.99	141	eP+	11	50.00	-1.6
	Z 20s	0.71um				5.1Msz
KMI	92.22	302	Pc	11	58.00	0.5
	2.5s	230.00nm				6.2mb
	Z 20s	1.40um				5.4Msz
		pP	12	10.60		41kmX
TIA	92.44	319	Pc	11	57.50	-0.4
	2.0s	300.00nm				6.4mb
	N 18s	0.80um				
SNY	94.06	326	Pc	12	04.00	-1.2
	Z 20s	0.80um				5.2Msz
		SKS	22	32.00		
		S	23	14.00		
MDJ	94.10	331	eP	12	06.50	1.2
	Z 20s	0.93um				5.2Msz
CN2	94.95	328	Pc	12	08.50	-0.8
	5.0s	200.00nm				5.8mb X
	Z 20s	1.90um				5.6Msz
		epP	12	19.00		33kmX
XAN	95.06	312	P	12	10.10	0.0
CD2	95.74	307	P	12	15.00	1.7
	Z 19s	1.70um				5.5Msz
		PP	16	06.00		
		eSKS	22	42.00		
		S	23	31.00		
BJI	95.91	320	eP	12	14.00	0.2
	Z 18s	1.17um				5.4Msz
		ePP	16	06.00		
		eSKS	22	48.00		
		eS	23	32.00		
		eSS	30	06.00		
TIY	95.96	317	eP	12	14.80	0.6
	Z 18s	1.00um				5.3Msz
	N 16s	0.80um				
		SKS	22	48.00		
NNA	97.43	113	e(P)	12	20.00	-1.4
	1.0s	10.00nm				5.3mb
	Z 18s	0.34um				4.9Msz
LZH	99.39	310	eP	12	29.00	-0.9
	6.0s	360.00nm				6.1mb X
	Z 28s	1.12um				5.2MszX
	N 16s	0.63um				
		sP	12	45.00		
		PP	16	35.00		
		eSKS	23	03.70		
		eS	24	00.00		
SHL	99.61	296	eP	12	31.50	0.4
CNCB	99.73	123	P	12	34.00	1.5
LPB	99.86	123	P	12	34.00	1.1
		LR	45	20.00		
ZOBO	100.04	123	Pdiff	12	35.00	1.1
	Z 22s	0.37um				4.8Msz
		LR	45	32.00		
GTA	103.99	311	ePdiff	12	54.30	3.9X
	Z 18s	0.80um				5.3Msz
	E 16s	0.50um				
		PP	17	05.20		
PPD	104.91	139	e(Pdif	12	55.00	0.3
ALQ	107.04	58	e(PKP)	17	20.00	6.2X
TTA	107.71	15	ePKP	17	11.00	-3.0X
PMR	107.99	19	e(PKP)	17	19.50	5.1X
RND	109.63	18	e(PKP)	17	13.70	-3.9X
BW06	110.11	50	e(PKP)	17	30.00	10.6X
GOL	110.68	55	PKP	17	30.00	9.4X
	Z 20s	1.00um				5.4Msz
IMA	110.99	14	ePKP	17	17.90	-2.2
FBA	111.16	17	ePKP	17	17.00	-3.3X
WMQ	113.80	308	ePKP	17	23.80	-2.4
	Z 24s	0.50um				5.0MszX
		PP	18	20.00		
SES	114.00	43	ePKP	17	23.00	-3.3X
INK	117.31	20	ePKP	17	28.00	-3.9X
PDCR	118.78	145	(PKP)	17	33.00	-3.4X
YKA	119.54	31	ePKP	17	32.40	-4.0X
	0.8s	5.80nm				
QUE	119.85	285	ePKP	17	37.60	-0.7
SOB1	120.94	142	ePKP	17	39.40	-1.1
FFC	121.00	42	iPKPd	17	36.80	-2.6
	0.9s	18.00nm				
RSCP	121.34	69	PKP	17	50.00	9.3X
	Z 22s	0.53um				5.1Msz
MBC	125.66	16	ePKPd	17	44.80	-3.0X
	1.0s	29.00nm				
BCAO	135.60	220	ePKPc	18	03.00	-5.6X
	1.0s	20.00nm				
		id	18	06.10		
		id	20	44.00		
TAB	138.58	283	ePKP	18	13.00	-0.7
FRB	139.59	37	ePKP	18	02.00	-12.4X
WEGH	143.07	193	ePKP	18	21.00	-1.2
PRNI	143.52	266	ePKP	18	19.00	-3.5X
KOGH	143.54	194	ePKP	18	21.00	-2.0
KUK	143.66	193	ePKP	18	18.50	-4.7X
JVI	144.04	268	ePKP	18	20.50	-2.9X
LIC	144.27	186	PKP	18	20.44	-3.7X
	Z 20s	1.10um				5.6Msz
KIC	144.38	186	PKP	18	20.54	-3.8X
ADI	144.68	270	ePKP	18	23.00	-1.4
TIC	144.69	186	PKP	18	21.44	-3.5X
GAZ	144.91	278	ePKP	18	24.00	-0.6
KEV	146.78	338	iPKP	18	27.80	1.1
CSS	146.92	272	ePKP	18	28.50	0.5
KVT	147.07	284	ePKP	18	27.00	-1.1
PPCY	147.62	271	ePKP	18	30.00	0.9
SOD	148.33	335	iPKP	18	30.70	1.5
KAS	148.80	283	ePKP	18	30.00	-0.9
BBTK	149.10	280	iPKPd	18	30.00	-1.5
BCK	149.93	274	iPKP	18	34.60	1.8
ELL	150.18	273	ePKP	18	36.70	3.5X
ALT	150.82	277	ePKP	18	31.90	-2.2
KHL	151.02	275	ePKP	18	32.90	-1.5
GPA	151.03	280	iPKP	18	38.80	4.5X
KAF	151.25	326	iPKP	18	38.20	4.4X
	0.5s	51.20nm				
YER	151.53	272	ePKP	18	39.00	3.9X
NUR	152.71	324	ePKP	18	42.00	6.0X
	0.8s	107.10nm				
IZM	152.72	274	ePKP	18	42.00	5.2X
EZN	153.84	277	ePKP	18	44.10	5.9X
UPP	156.03	327	ePKP	18	48.00	7.5X
		i	19	06.70		
VAY	156.98	279	ePKP	18	48.50	6.1X
HFS	157.36	331	ePKP	18	56.20	13.9X
	0.5s	2.10nm				
NB2	157.55	335	PKP	18	53.00	10.5X
	0.9s	31.30nm				
SKO	157.94	280	ePKP	18	41.00	-2.5X
	Z 20s	0.93um				5.6Msz
SPC	158.85	300	ePKP	18	39.70	-4.9X
		i	19	21.20		
KRA	158.89	302	ePKP	18	41.80	-2.5X
		e	19	21.50		
		e	19	26.20		
SRO	160.32	296	ePKP	18	40.90	-5.0X
		i	19	28.20		
KSP	160.94	306	ePKP	18	44.50	-2.0
	1.7s	145.00nm				
		ic	19	31.00		
		i	19	34.00		
		e	23	09.50		
ZST	161.07	298	ePKP	18	43.90	-2.8X
		e	19	29.60		
		e	23	17.50		
PTJ	162.12	291	ePKP	18	45.90	-2.0
BRG	162.33	308	ePKP	18	45.80	-2.0
		e	19	04.00		
		i	19	36.20		
VBY	162.64	290	ePKPc	18	44.00	-4.3X
		i	19	38.50		
CLL	162.71	310	ePKP	18	49.00	0.8
	1.9s	29.00nm				
KMR	163.05	299	iPKP-	18	44.90	-3.8X
		i	19	40.40		
		ePP	23	20.00		
LJU	163.10	292	e(PKP)	18	45.00	-3.8X
		e	19	39.00		
KHC	163.13	303	ePKP	18	47.30	-1.5
	Z 19s	1.00um				6.3Msz
	N 18s	0.60um				
	E 18s	0.50um				
		e	19	40.50		
MOX	163.78	309	e(PKP)	18	40.00	-9.3X
		i	19	42.00		
VAI	167.10	293	PKP	18	51.20	-1.0
IFR	171.18	198	iPKP	18	55.00	-0.3
	S.D. = 1.2	on 141 of 203 obs.				

? JAN 28, 1991 13h 12m 55.26± 3.15s
39.743 N ±10.9km 25.609 E ±26.6km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
MD 3.5 (ISK).

EZN	0.56	81	iPg	13	05.60	-1.0
			eSg	13	13.10	
EDC	1.83	70	ePn	13	28.00	1.0
IZM	1.86	136	ePn	13	27.10	-0.4
BNT	1.88	70	ePn	13	27.90	0.2
DST	2.33	92	iPn	13	34.60	0.2
DMK	2.64	37	ePn	13	37.90	-0.7
YLV	3.00	73	ePn	13	44.00	0.2
HRT	3.29	70	ePn	13	48.00	0.1
	S.D. = 0.7	on 8 of 8 obs.				

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* JAN 28, 1991 13h 35m 44.25± 0.99s
39.705 N ±11.8km 25.924 E ± 7.9km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
MD 3.4 (ISK).

EZN	0.33	69	iPg	35	50.90	-0.2
			iSg	35	58.60	
EDC	1.62	66	ePn	36	13.00	0.0
IZM	1.67	141	ePn	36	13.60	-0.1
DST	2.09	92	iPn	36	20.10	0.3
YLV	2.78	71	ePn	36	32.00	2.3X
VAY	3.02	303	ePn	36	33.00	0.0
	S.D. = 0.3	on 5 of 6 obs.				

JAN 28, 1991 15h 37m 36.05± 0.89s
49.885 N ± 9.0km 5.016 E ± 7.3km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.6 (LDG).

GSH	1.22	45	ePgc	37	58.00	-0.8
			eSg	38	14.20	
HAU	2.08	154	Pg	38	13.00	1.6
			Sg	38	39.60	
CDF	2.09	134	Pg	38	11.30	-0.4
			Sg	38	36.50	
BSF	2.37	150	Pg	38	17.20	1.6
LOR	2.73	197	Pn	38	19.10	-1.6
			Pg	38	29.30	
			Sn	38	54.80	
			Sg	39	06.50	
LBF	2.98	194	Pn	38	24.20	-0.1
			Sn	38	59.00	
SSF	3.00	200	Pn	38	23.30	-1.2
			Sn	38	58.80	
SMF	3.34	194	Pn	38	28.30	-1.0
			Pg	38	40.20	
			Sg	39	23.40	
FLN	3.77	255	Pn	38	36.30	0.9
			Sn	39	18.20	
GRR	4.14	251	Pn	38	41.40	0.8
LPF	4.40	247	Pn	38	44.50	0.1
	S.D. = 1.2	on 11 of 11 obs.				

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* JAN 28, 1991 15h 44m 29.32± 1.87s
38.950 N ±16.8km 20.322 E ± 7.3km
DEPTH = 10.2 ± 3.9 km
3.8mb (3 obs.)
GREECE (364)

IGT	0.58	1	ePc	44	40.48	-0.6
LIT	2.03	55	iPc	45	04.26	0.3
			eS	45	30.24	
QHR	2.19	9	iPn	45	08.30	2.0
			iSg	45	39.00	
LCI	2.29	308	P	45	16.50	8.8X
			eSn	45	49.00	
GRG	2.56	38	eP	45	12.04	0.5
			iS	45	43.48	
THE	2.64	50	eP	45	12.88	0.2
PAIG	2.78	68	eP	45	14.40	-0.2
			eS	45	47.96	
VAY	2.93	35	iPn	45	16.70	0.0
KNT	2.96	41	ePc	45	17.04	-0.2
			iS	45	52.36	
BRT	3.08	310	P	45	29.40	10.6X
			eSg	46	10.40	
ULC	3.12	345	ePn	45	19.60	0.2
SKO	3.14	15	iPn	45	20.00	0.3
	0.6s	201.00nm				

			i	45	45.20	
			iSg	45	59.60	
			i	46	15.60	
TDS	3.17	284	P	45	33.00	12.8X
			eSn	46	13.80	
SRS	3.31	48	ePc	45	21.84	-0.4
			eS	46	00.48	
SOI	3.46	257	P	45	33.50	9.3X
			eSn	46	20.40	
BDV	3.52	342	ePn	45	25.40	0.3
			eSn	46	04.00	
TTG	3.57	347	ePn	45	26.10	0.3
			eSn	46	06.90	
PVY	3.65	356	ePn	45	28.00	0.9
			eSn	46	09.10	
HCY	3.76	339	ePn	45	28.00	-0.5
			eSn	46	10.00	
IVA	3.93	355	ePn	45	31.00	0.0
			eSn	46	13.50	
BRY	4.17	342	ePn	45	32.00	-2.5
			eSn	46	20.00	
MEU	4.64	248	P	45	49.00	7.8X
			eSn	46	45.00	
ALN	4.81	64	eP	45	43.12	-0.4
HVAR	5.14	327	i(Pn)	45	47.70	-0.4
			iSn	46	45.50	
VBY	7.55	332	eP	46	22.10	0.1
			e	46	30.70	
			e(Sn)	48	01.20	
MLR	7.75	31	eP	46	30.00	5.0X
VRI	8.38	32	ePc	46	38.00	4.4X
HFS	21.62	351	ePKP	49	22.20	1.0
	0.5s		1.70nm			3.7mb
NUR	21.75	6	eP	49	21.00	-1.6
EKA	22.71	324	P	49	34.00	1.9
	0.8s		5.40nm			4.1mb
NB2	22.83	349	P	49	32.40	-1.0
	0.7s		1.50nm			3.6mb
	S.D. = 1.0		on 24 of 31 obs.			

≈ JAN 28, 1991 15h 59m 52.96± 1.15s
2.370 N ±10.9km 76.396 W ±19.7km
DEPTH = 10.0km (geophysicist)
COLOMBIA (103)
MD 2.7 (UVC).

PURC	0.06	144	iPc	59	55.65	0.0
SALC	0.67	333	ePc	00	06.24	-0.1
DIAC	0.94	12	iPc	00	10.90	0.0
			eS	00	23.50	
HOOC	1.12	348	ePc	00	14.19	0.1
			eS	00	28.80	
ANCC	1.23	338	eP	00	15.98	0.1
	S.D. = 0.1		on 5 of 5 obs.			

JAN 28, 1991 16h 26m 38.08± 0.21s
26.743 N ± 4.3km 44.575 W ± 3.7km
DEPTH = 10.0km (geophysicist)
5.0mb (35 obs.) 4.6Msz (3 obs.)
NORTH ATLANTIC RIDGE (403)

CBM	27.41	324	P	32	27.00	1.4
RSNY	29.90	314	P	32	48.00	-0.1
TKL	34.50	295	P	33	29.00	0.5
IFR	34.63	69	iP	33	30.00	0.2
MAL	35.36	64	eP	33	37.00	1.3
SOB1	35.91	174	eP	33	42.50	1.9
TOL	36.01	58	eP	33	48.00	6.7X
GUD	36.06	57	eP	33	42.00	0.2
PDCR	39.40	172	(P)	34	07.00	-2.8
EPF	39.77	54	eP	34	12.70	-0.1
LPF	39.92	46	eP	34	13.60	-0.3
	1.3s		50.55nm			5.0mb
MFF	40.14	48	eP	34	15.40	-0.3
	1.3s		39.70nm			4.9mb
GRR	40.14	46	eP	34	15.30	-0.4
	1.3s		36.10nm			4.9mb
FRB	40.16	344	eP	34	16.00	0.4
LFF	40.39	51	eP	34	17.20	-0.6
	1.3s		50.55nm			5.1mb
LPO	40.65	52	eP	34	19.40	-0.5
LDF	40.67	46	eP	34	19.50	-0.5
	1.0s		20.00nm			4.8mb
LSF	41.19	49	eP	34	23.70	-0.7
	0.9s		13.10nm			4.7mb
CAF	41.31	51	eP	34	24.80	-0.6
	1.3s		21.65nm			4.7mb
TCF	41.66	49	eP	34	27.60	-0.6
	1.0s		12.00nm			4.6mb
BAO	42.25	185	ePd	34	34.90	1.5
AVF	42.53	49	eP	34	34.80	-0.5
	1.0s		13.00nm			4.6mb
TIC	42.58	111	P	34	36.12	0.0
SSF	42.69	49	eP	34	36.10	-0.5
	1.4s		34.85nm			4.9mb
LIC	42.80	111	P	34	38.16	0.3
Z	20s		0.85um			4.6Msz
SMF	42.84	49	eP	34	37.40	-0.5
	1.4s		24.40nm			4.7mb
LOR	42.96	48	eP	34	38.00	-0.9
	1.3s		18.05nm			4.6mb
Z	21s		0.52um			4.4Msz
KIC	42.96	111	P	34	39.36	0.1
	0.9s		10.50nm			4.6mb
			S	40	07.30	
LBF	42.99	49	eP	34	38.20	-0.9
	1.1s		12.20nm			4.5mb
HAU	44.75	48	eP	34	52.30	-1.1
	1.1s		17.10nm			4.9mb
BSF	45.02	48	eP	34	54.40	-1.2
	1.1s		14.65nm			4.8mb
SIV	45.40	203	P	34	57.00	-1.8
CDF	45.43	47	eP	34	57.90	-1.0
VAI	46.12	51	Pc	35	07.00	2.9
SOTA	47.91	49	iPc	35	19.00	0.4
	1.1s		26.70nm			5.2mb
			i	35	24.90	
			i	35	37.50	
CTI	48.13	51	Pc	35	22.50	2.2
GRF	48.18	46	ePc	35	20.50	0.1
	1.2s		18.00nm			5.0mb
Z	27s		0.60um			4.4MszX
			e	35	26.70	
JFO	48.20	178	(P)	35	22.00	1.2
ZOBO	48.49	211	Pc	35	23.00	-0.8
	1.0s		27.50nm			5.3mb
			S	42	32.00	
			LR	50	08.00	
LPB	48.71	211	P	35	25.00	-0.3
	1.0s		64.00nm			5.6mb
CNCB	48.90	210	P	35	26.00	-0.9
PPD	48.92	188	e(P)	35	26.00	-0.3
BMA	49.15	179	eP	35	27.10	-1.0
CLL	49.51	44	iPc	35	31.00	0.4
KHC	49.65	47	eP	35	31.50	-0.3
	1.2s		15.00nm			4.9mb
			e	35	38.00	
FFC	49.91	320	iPd	35	33.90	0.3
	1.0s		33.00nm			5.3mb
BRG	50.05	45	eP	35	35.00	0.2
	1.0s		20.00nm			5.0mb
			i	35	40.90	
PRU	50.35	46	eP	35	37.30	0.2
			e	35	44.00	
RSSD	50.37	306	P	35	38.00	0.4
NB2	50.53	31	P	35	38.40	0.1
	1.0s		10.30nm			4.7mb
VBY	50.64	52	ePKP	35	40.00	0.7
			e	35	45.30	
HFS	51.47	33	eP	35	45.00	-0.5
	0.9s		12.50nm			4.8mb
KSP	51.53	45	ePc	35	46.30	0.3
ZST	51.94	48	eP	35	47.90	-1.3
SRO	52.75	49	iP	35	54.40	-0.8
ALQ	53.03	295	eP	35	58.00	0.2
	1.5s		24.31nm			4.9mb
Z	20s		1.10um			4.9Msz
BUD	53.23	49	e(P)	35	58.00	-0.8
KRA	53.83	46	eP	35	59.50	-3.6X
			e	36	03.10	
BW06	54.46	305	P	36	08.00	-0.2
PV09	54.63	300	eP	36	11.00	1.4
SES	55.08	314	eP	36	12.00	-0.4
LRM	56.26	309	eP	36	21.40	0.2
EDM	56.48	318	ePd	36	22.50	0.1
MSU	56.98	300	P	36	27.00	0.5
YKA	57.44	329	eP	36	27.10	-1.9
	0.9s		11.30nm			4.9mb
MLR	58.14	51	eP	36	38.50	4.2X
SOD	58.39	25	eP	36	37.00	1.4
KEV	58.81	23	iP	36	38.60	0.1
	1.0s		30.00nm			5.4mb
NEW	59.19	312	P	36	41.40	-0.1
	1.0s		37.50nm			5.5mb
GLA	60.22	294	eP	36	49.00	0.2
MBC	60.61	345	eP	36	51.00	0.1
	1.4s		40.00nm			5.4mb
PNT	60.69	314	eP	36	53.00	1.2
TPC	60.95	296	eP	36	53.00	-0.8
TNP	60.96	301	eP	36	53.50	-0.5
GSC	61.27	297	eP	36	36.00	-20.0X
SBB	62.23	297	eP	37	03.00	0.5
BCAO	64.05	99	iPd	37	14.10	-0.6
	0.6s		31.00nm			5.7mb
			ic	37	20.50	
			ic	37	39.90	
INK	65.06	336	ePc	37	19.30	-1.2
DSI	68.51	65	eP	37	44.00	1.0
PRNI	68.60	66	eP	37	44.00	0.5
FBA	71.48	334	P	38	00.50	0.0
	1.0s		25.00nm			5.3mb
TOA	71.91	331	P	38	02.00	-1.2
KLU	72.04	330	P	38	03.00	-1.0
IMA	73.19	336	P	38	11.40	0.6
	1.0s		16.25nm			5.1mb
PMR	73.41	331	P	38	12.00	0.2
	0.9s		29.17nm			5.3mb
LWI	76.21	100	iPc	38	30.20	1.1
PDB	76.45	331	P	38	29.00	-0.4
KRI	84.00	112	iPc	39	11.30	0.8
SLR	87.45	120	iPc	39	28.50	1.1
	1.0s		10.00nm			5.0mb
QUE	93.45	54	eP	39	57.40	1.8
DZM	151.41	273	iPKPc	46	35.10	7.1X
WRA	173.16	9	PKP	46	50.00	1.2
	1.8s		1.60nm			
	S.D. = 1.0		on 87 of 92 obs.			

& JAN 28, 1991 16h 28m 59.76s
61.569 N 149.847 W
DEPTH = 48.2km
SOUTHERN ALASKA (2)
<AEIC>.

PWA	0.08	350	iP	29	07.18	1.5
			iS	29	13.91	
PLRM	0.34	86	eP	29	08.58	-0.6
			eS	29	16.48	
PMS	0.35	157	iP	29	09.15	-0.2
			iS	29	16.12	
SUA	0.44	257	iP	29	10.16	-0.3
			eS	29	18.31	
GHO	0.49	65	eP	29	10.25	-0.6
			eS	29	19.38	
CUT	0.86	347	eP	29	15.11	-0.6
			eS	29	27.35	
SKT	0.90	298	iP	29	15.34	-0.9
			iS	29	28.34	
NKA	1.07	220	eP	29	19.56	1.0
SLKM	1.08	190	eP	29	17.58	-1.2
			eS	29	31.76	
SPU	1.13	251	iP	29	18.72	-0.8
			eS	29	33.91	
CRP	1.15	256	eP	29	19.45	-0.5
			iS	29	35.39	
CKL	1.26	254	eP	29	20.34	-1.0
			eS	29	37.56	
BGL	1.26	257	eP	29	20.48	-0.9
			eS	29	37.32	
HUR	1.42	4	eP	29	23.15	-0.4
SEW	1.48	172	eP	29	23.49	-0.9
GLI	1.50	116	iP	29	23.03	-1.6
			eS	29	41.95	
RDT	1.60	232	iP	29	24.62	-1.4
			eS	29	44.98	
KNIM	1.60	139	iP	29	23.44	-2.6
VZW	1.67	106	eP	29	25.46	-1.6
			eS	29	46.82	
NNL	1.69	206	eP	29	28.27	1.0
VLZ	1.75	103	eP	29	26.19	-1.9
REF	1.76	233	eP	29	27.15	-1.4
RDN	1.77	235	eP	29	27.13	-1.5
			iS	29	49.11	
RSO	1.80	233	eP	29	27.75	-1.3
RS2	1.80	233	eP	29	27.80	-1.3
NCT	1.81	237	eP	29	27.87	-1.2
TOA	1.82	71	eP	29	28.54	-0.8
KLU	1.88	91	eP	29	28.47	-1.7
MTU	1.92	145	eP	29	29.86	-0.7
TZL	2.15	75	eP	29	33.32	-0.6
CNPM	2.16	199	eP	29	34.24	0.2

28d 16h

SDG	2.24	63	eP	29	35.31	0.1
PAX	2.48	54	eP	29	38.83	0.2
PDB	2.79	232	eP	29	40.64	-2.2
GLB	2.90	90	eP	29	43.79	-0.7

35 obs. associated

JAN 28, 1991 16h 32m 07.41± 0.31s
26.780 N ± 6.3km 44.562 W ± 6.1km
DEPTH = 10.0km (geophysicist)
4.8mb (14 obs.) 4.6Msz (1 obs.)
NORTH ATLANTIC RIDGE (403)

MAL	35.33	64	eP	39	06.00	1.2
BAO	42.29	185	ePc	40	04.00	0.9
SIV	45.44	203	P	40	27.80	-0.7
MEO	46.63	294	e(P)	40	39.20	1.5
SOTA	47.88	49	iPd	40	47.80	0.2
	1.0s	8.90nm			4.8mb	
		i		41	04.50	
ZOBO	48.53	211	P	40	52.20	-1.2
	1.2s	16.89nm			5.0mb	
LPB	48.75	211	P	40	55.80	0.9
CNCB	48.94	210	iPc	40	56.30	-0.2
KHC	49.62	47	eP	41	01.40	0.5
		e		41	07.00	
FFC	49.89	320	iPc	41	03.40	0.6
	0.8s	12.00nm			4.9mb	
BRG	50.01	45	eP	41	03.80	0.0
	1.3s	18.00nm			4.9mb	
PRU	50.31	46	eP	41	06.20	0.1
NB2	50.49	31	P	41	07.40	0.0
	1.1s	8.50nm			4.6mb	
HFS	51.44	33	eP	41	18.40	3.9X
	0.9s	7.90nm			4.6mb	
KSP	51.49	45	eP	41	15.00	-0.1
ZST	51.91	48	eP	41	17.40	-0.8
ALO	53.02	295	eP	41	27.00	-0.1
	1.4s	13.37nm			4.7mb	
Z	20s	0.57um			4.6Msz	
SPC	53.99	47	eP	41	33.40	-0.5
BW06	54.44	305	P	41	37.40	0.0
SES	55.06	314	eP	41	42.00	0.4
EDM	56.46	318	eP	41	51.50	-0.1
MSU	56.97	300	P	41	59.00	3.2X
YKA	57.41	329	eP	41	56.20	-2.0
	1.2s	5.30nm			4.4mb	
NEW	59.17	312	P	42	11.00	0.2
	1.0s	20.00nm			5.2mb	
MBC	60.58	345	eP	42	20.50	0.5
	1.5s	19.00nm			5.0mb	
BCAO	64.04	99	iPc	42	43.40	-0.6
	0.9s	32.00nm			5.5mb	
		id		42	49.30	
INK	65.03	336	eP	42	49.00	-0.6
PRNI	68.57	66	eP	43	13.00	0.3
FBA	71.45	334	P	43	30.00	0.3
	0.8s	6.90nm			4.8mb	
KLU	72.02	330	P	43	33.00	-0.2
IMA	73.16	336	P	43	41.00	1.1
	1.0s	6.25nm			4.6mb	
PMR	73.38	331	P	43	41.00	0.0
	0.9s	14.58nm			5.0mb	
PDB	76.42	331	P	43	57.00	-1.6
DZM	151.42	273	iPKPd	52	04.90	7.5X

S.D. = 0.8 on 31 of 34 obs.

JAN 28, 1991 18h 00m 53.78± 0.35s
42.009 S ± 4.0km 171.700 E ± 3.4km
DEPTH = 18.7 ± 2.8 km
5.6mb (33 obs.) 5.6Msz (25 obs.)
SOUTH ISLAND, NEW ZEALAND (162)

Mo=8.0*10**17 Nm (PPT). Slight damage (VI) in the Westport area. Felt from Christchurch, South Island to Wellington, North Island.

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 19S, 44C
Centroid Location:
Origin Time 18:00:56.9 0.2
Lat 42.03S 0.03 Lon 171.86E 0.04
Dep 15.0 BDY Half-duration 2.8
Moment Tensor; Scale 10**17 Nm
Mrr= 5.05 0.13 Mtt=-0.28 0.18
Mff=-4.77 0.18 Mrt= 0.27 0.44
Mrf= 3.51 0.50 Mtf=-3.74 0.14

Principal Axes:

	Val=	Plg=	Azm=
T	6.31	68	246
N	1.38	17	23
P	-7.70	14	117

Best Double Couple:Mo=7.0*10**17
NP1:Strike=229 Dip=34 Slip= 121
NP2: 13 61 71

RTY	0.88	77	iPd	01	09.00	-1.1
LTZ	0.88	152	Pd	01	12.00	1.7
			S	01	25.40	
THZ	0.93	75	Pd	01	10.60	-0.6
			S	01	22.90	
KHZ	1.43	107	P	01	19.60	0.9
			S	01	37.50	
MQZ	1.84	158	Pc	01	24.70	0.1
			S	01	48.00	
CCW	1.90	83	ePn	01	27.30	1.7
TCW	2.09	68	P	01	27.90	-0.4
MRW	2.38	72	P	01	32.40	-0.1
WEL	2.41	74	P	01	32.90	0.0
BHW	2.45	77	ePn	01	33.00	-0.4
WDW	2.58	74	P	01	34.80	-0.5
TMP	2.58	206	Pn	01	34.00	-1.4
KIW	2.67	66	ePn	01	37.10	0.4
CAW	2.68	72	eP	01	35.20	-1.6
MOW	2.72	79	P	01	36.20	-1.2
BLW	2.90	79	Pd	01	38.50	-1.3
MTW	2.98	75	P	01	39.10	-1.8
MNG	3.17	65	P	01	42.20	-1.5
NEZ	3.29	34	P	01	46.00	0.6
			S	02	22.00	
MSCZ	3.50	208	Pn	01	48.30	-0.2
MHZ	3.52	209	P	01	48.10	-0.7
MMCZ	3.53	211	P	01	48.00	-0.9
SBCZ	3.54	209	Pn	01	48.60	-0.4
LSCZ	3.54	208	Pn	01	48.80	-0.2
PGZ	3.71	70	P	01	48.10	-3.3X
MSZ	3.83	225	P	01	53.60	0.5
CNZ	4.06	47	eP	01	55.40	-1.0
NGZ	4.10	48	eP	01	56.00	-1.1
WHH	4.81	51	eP	02	04.10	-3.0X
OBZ	5.53	206	P	02	16.20	-0.8
PUZ	6.38	54	P	02	22.90	-6.3X
HBZ	6.72	51	eP	02	27.70	-6.3X
RIV	18.12	290	iP+	05	08.00	2.1
Z	18s	31.48um				
			iS	08	42.40	
CNB	18.65	284	eP	05	15.00	2.4
			eS	09	00.00	
			e	13	11.00	
			eTT	19	46.00	
COO	19.57	299	eP	05	26.00	2.4
	0.9s	124.00nm			5.2mb	
DZM	20.36	346	iPc	05	32.00	-0.1
TOO	20.59	274	iPd	05	35.80	1.6
			eS	09	40.00	
			e(TT)	20	35.00	
BRS	21.26	307	iPd-	05	44.00	2.9X
Z	18s	55.00um			6.0Msz	
			i	05	53.00	
			iS	09	39.00	
BFD	22.92	272	iPd	06	02.50	4.9X
			eTT	21	02.00	
CMS	23.16	289	iPd	06	03.00	3.1X
	0.8s	80.00nm			5.3mb	
			e	13	21.00	
PVC	24.36	352	iPc	06	13.00	1.3
RMO	24.37	302	iPc	06	14.00	2.2
			e	13	25.00	
SVA	24.50	16	eP	06	12.00	-1.0
VUN	24.61	16	eP	06	12.60	-1.5
			eS	07	11.80	
MBU	25.67	16	ePc	06	23.70	-0.5
ADE	26.65	274	eP	06	34.10	1.0
	1.0s	140.00nm			5.6mb	
OLP	27.26	296	ePc	06	39.80	1.1
CTA	30.66	308	iPc+	07	09.90	0.6
	1.0s	130.00nm			5.7mb	
			iS	12	20.00	
			iScP	13	44.00	
			iScS	17	44.00	
AFI	31.45	32	eP	07	17.00	0.6
HNR	34.06	339	eP	07	32.00	-7.0X
			eS	13	13.00	
OIS	34.47	298	iPc	07	43.20	0.6
	0.5s	35.00nm			5.5mb	

SBA	36.01	182	P	08	00.20	5.2X
ASPA	36.28	288	iPc	07	57.20	-0.8
	0.7s	113.10nm			5.9mb	
Z	20s	26.00um			6.0Msz	
			eS	13	38.60	
			iScP	14	03.50	
			iScS	18	07.30	
FORR	36.45	273	iPc	07	58.40	-0.8
TBI	37.22	72	iP	08	12.80	7.0X
	1.1s	100.00nm			5.5mb	
WRA	38.43	293	P	08	15.00	-1.0
	0.7s	167.80nm			5.9mb	
PMG	38.99	319	eP	08	31.00	10.3X
WARB	40.03	279	eP	08	29.50	0.2
AFR	40.89	65	iP	08	38.00	1.7
	1.2s	145.00nm			5.6mb	
PAE	40.93	66	iP	08	38.40	1.7
	1.2s	115.00nm			5.5mb	
PPT	41.00	65	iP	08	38.90	1.6
	1.2s	160.00nm			5.6mb	
TVO	41.07	66	iP	08	39.70	1.8
	1.2s	100.00nm			5.4mb	
PPN	41.13	66	iP	08	40.00	1.7
	1.2s	95.00nm			5.4mb	
RAB	41.50	330	iPc+	08	41.70	0.3
			iS	15	06.00	
YYYY	42.32	320	eP	08	47.50	-0.7
NWAO	43.53	264	eP	08	57.00	-0.9
KLB	43.78	266	eP	08	59.00	-0.9
PMO	43.95	64	iP	09	02.90	1.6
	1.2s	115.00nm			5.6mb	
VAH	43.96	65	iP	09	02.90	1.5
	1.2s	85.00nm			5.4mb	
TPT	44.15	65	iP	09	04.60	1.7
	1.2s	180.00nm			5.8mb	
RUV	44.16	65	iP	09	04.60	1.5
	1.2s	100.00nm			5.5mb	
MUN	44.75	264	eP	09	07.40	-0.3
	0.6s	43.00nm			5.5mb	
Z	20s	9.10um			5.7Msz	
KNA	45.15	292	eP	09	11.00	0.0
MTN	45.62	297	iPc	09	15.40	0.7
MEKA	45.81	272	eP	09	15.00	-1.2
	0.3s	31.00nm			5.7mb	
MRWA	46.30	267	eP	09	19.00	-1.0
MBL	48.02	279	eP	09	32.30	-1.4
JAY	48.14	316	ePd	09	34.00	-0.7
SPA	48.18	180	iPc	09	36.80	2.1
	1.0s	120.00nm			5.9mb	
Z	20s	4.05um			5.4Msz	
			i	10	58.30	
MAW	58.42	205	eP	10	50.80	0.8
	1.1s	109.00nm			5.8mb	
GUA	60.53	330	eP	11	03.20	-1.9
DAV	64.47	308	eP	11	30.00	-1.4
	1.0s	320.00nm			6.4mb	
AIA	64.58	157	eP	11	34.60	3.1X
CGP	66.08	308	iPc	11	41.00	-0.8
MAP	67.99	308	eP	11	52.00	-1.9
KKM	69.50	299	iPd	12	03.50	0.1
	0.9s	145.80nm			6.1mb	
PPR	70.74	304	iPc	12	10.50	-0.2
PGP	72.30	308	ePd	12	18.00	-2.1
OCP	73.13	309	eP	12	36.00	11.1X
BAG	74.82	309	ePc+	12	32.00	-3.0X
			e	15	22.00	
KGM	75.46	286	eP	12	39.50	1.0
CRZF	76.99	218	iP	12	54.00	7.3X
			eS	22	48.00	
IPM	78.87	287	ePc	12	58.50	1.0
	0.6s	33.00nm			5.5mb	
TSI	79.90	284	eP	13	08.00	5.0X
SNG	80.97	288	iPd	13	09.40	0.7
	1.0s	98.00nm			5.8mb	
OIZ	83.31	303	eP	13	21.00	0.3
N	20s	2.40um				
E	18s	1.80um				
			PP	16	29.00	
			eS	23	46.00	
MAT	83.96	333	(P)	13	23.00	-0.6
	2.5s	333.33nm			6.1mb	
Z	20s	1.42um			5.3Msz	
			eS	23	46.00	
GZH	84.26	308	Pc	13	26.40	1.0
Z	20s	1.80um			5.5Msz	
			ePP	16	36.00	
LNV	84.81	132	eP	13	29.50	1.3

28d 18h

TACH		85.29	132	eP	13	31.00	0.3	NNA		97.42	113	eP	14	32.00	4.3X	KAS		148.81	283	ePKP	20	38.00	0.7
NNT		85.36	291	iPc	13	32.00	0.9			1.0s		10.00nm			5.3mb	TRO		148.93	342	ePKP	20	37.79	1.3
PCH		85.55	132	eP	13	34.50	2.4X		Z	20s		1.42um			5.5Msz	BBTK		149.11	280	iPKPd	20	36.00	-1.9
SAN		85.60	132	eP	13	34.50	2.3X	HHC		98.79	318	P	14	34.00	0.8	BCK		149.93	274	ePKP	20	37.00	-2.1
PCT		85.68	294	iPc	13	32.00	-0.6		Z	20s		2.50um			5.7Msz	ELL		150.18	273	iPKP	20	33.20	-6.4X
		0.8s		6.30nm			4.9mb					pP	14	46.00	39kmX	ALT		150.82	277	iPKP	20	40.20	-0.2
ROCH		85.76	131	eP	13	34.00	0.7	LZH		99.41	310	eP	14	31.50	-4.7X	KHL		151.02	275	iPKP	20	39.50	-1.2
PEL		85.81	132	iPd	13	34.00	0.7			2.0s		36.00nm			5.6mb	GPA		151.04	280	iPKP	20	45.20	4.6X
FCH		85.90	132	eP	13	36.50	2.4X		Z	22s		1.51um			5.5Msz	KAF		151.27	326	iPKP	20	44.20	4.0X
SSE		86.34	318	Pc	13	35.50	-0.1		N	16s		1.05um						0.6s		43.80nm			
		6.0s		1300.00nm			6.3mb X		E	16s		0.96um				HRT		151.65	280	ePKP	20	46.00	4.5X
	Z	20s		2.60um			5.6Msz					SKS	25	09.00		ISK		152.16	281	ePKP	20	48.00	5.8X
	N	16s		1.10um				SHL		99.62	296	eP	14	37.50	0.0	ITU		152.20	281	ePKP	20	40.00	-2.2
	E	15s		0.90um								eS	25	10.50		IZM		152.72	274	ePKP	20	41.70	-1.4
				pP	13	46.70	36kmX	CNCB		99.71	123	P	14	40.00	1.2	NUR		152.73	324	ePKP	20	48.00	5.7X
				PP	16	58.00		LPB		99.85	123	P	14	47.00	7.8X			0.8s		68.90nm			
				sS	24	18.00			Z	24s		3.10um			5.7MszX	CFR		153.55	289	ePKP	20	45.00	1.0
MDZ		87.02	133	eP	13	39.50	0.2					LR	48	08.00		TLB		153.57	288	ePKP	20	56.00	12.0X
NST		87.25	294	eP	13	41.50	1.2	ZOBO		100.03	123	Pdiffc	14	41.00	0.9	EZN		153.85	277	ePKP	20	50.40	5.8X
LOE		87.39	296	eP	13	42.00	1.0			1.0s		6.25nm			5.1mb	VRI		154.61	291	ePKP	20	58.00	12.6X
NJ2		88.27	317	Pc	13	45.80	0.9		Z	24s		1.43um			5.4MszX	NSS		154.62	340	ePKP	20	51.62	6.8X
		5.0s		1100.00nm			6.4mb X					SKS	25	20.00		MLR		155.13	290	ePKP	20	46.00	-0.3
				iPP	17	12.00						LR	47	32.00		CMP		155.75	289	ePKPd	20	58.00	10.9X
				S	24	20.00		GBA		102.11	277	Pdiff	14	49.60	1.0	BMR		156.86	295	ePKPd	20	52.00	3.6X
BDT		89.12	294	eP	13	49.10	-0.1	GTA		104.01	311	ePdiff	15	00.00	3.2X	HFS		157.38	331	ePKP	21	00.40	11.8X
		1.0s		68.30nm			5.9mb		Z	19s		1.50um			5.5Msz			0.4s		2.40nm			
WHN		89.44	313	ePc	13	51.00	0.5		N	16s		0.70um				NB2		157.57	335	PKP	20	57.40	8.5X
		4.0s		1400.00nm			6.6mb X		E	17s		0.90um						1.0s		5.50nm			
	Z	20s		1.30um			5.4Msz					sP	15	11.00		SKO		157.94	280	ePKP	20	48.00	-1.9
	E	13s		0.60um								PP	19	12.00			Z	20s		1.49um			5.8Msz
				SKS	24	20.00		GUN		105.21	294	Pdiff	15	03.80	1.1		N	19s		0.90um			
CHG		90.26	295	eP	13	55.00	0.4	PKI		105.32	293	Pdiff	15	04.20	1.0		E	19s		1.33um			
		0.9s		31.30nm			5.6mb	KKN		105.54	293	Pdiff	15	05.60	1.6					i	24	58.00	
GYA		90.77	306	iPc	13	58.20	1.2			0.7s		14.00nm			6.1mb	OHR		158.25	277	ePKP	21	06.00	15.7X
		5.0s		1300.00nm			6.5mb X	DMN		105.55	293	Pdiff	15	06.60	2.5X	SPC		158.86	300	ePKP	20	47.20	-3.7X
	Z	36s		1.70um			5.2MszX	GKN		106.12	293	Pdiff	15	07.00	0.5					e	21	27.20	
	N	20s		1.40um				SLKM		106.80	19	ePKP	19	17.50	-1.1	KRA		158.90	302	ePKP	20	50.00	-0.7
	E	20s		2.40um				ALO		107.05	58	ePKP	19	33.00	12.9X					e	21	29.70	
				PP	17	36.00			Z	18s		5.33um			6.1Msz	SRO		160.33	296	ePKP	20	47.70	-4.6X
				SKS	24	27.00		TTA		107.74	15	e(PKP)	19	12.30	-8.1X					i	21	33.20	
LPA		90.97	141	eP+	13	58.00	0.2	PMR		108.01	19	ePKP	19	18.20	-2.6					e	25	16.90	
	Z	20s		4.26um			5.9Msz	RND		109.66	18	ePKP	19	20.70	-3.3X	KSP		160.96	306	ePKP	20	52.70	-0.1
				ePP	17	40.00		GOL		110.70	55	PKP	19	40.00	13.1X			0.9s		39.00nm			
KMI		92.23	302	Pc	14	04.50	0.6		Z	20s		1.75um			5.6Msz					id	21	36.50	
		8.0s		1100.00nm			6.3mb X	GLD		110.82	55	PKP	19	40.00	12.9X	ZST		161.08	298	ePKP	20	53.50	0.5
	Z	18s		2.70um			5.7Msz		Z	20s		1.50um			5.6Msz					e	21	36.90	
TIA		92.45	319	Pc	14	04.40	0.1	IMA		111.01	14	ePKP	19	24.10	-2.4					e	25	20.70	
		4.0s		1200.00nm			6.7mb X	BAO		111.96	138	e(PKP)	19	27.00	-2.8X	PTJ		162.13	291	ePKP	20	50.50	-3.8X
	N	19s		1.60um				WMO		113.81	308	ePKP	19	30.50	-2.0	BRG		162.34	308	ePKP	20	55.40	1.2
	E	24s		1.40um					Z	24s		0.90um			5.3MszX					i	21	07.00	
DL2		92.51	323	P	14	04.00	-0.5					PP	20	23.00						i	21	15.80	
	Z	22s		1.00um			5.2Msz	RSSD		114.14	52	e(PKP)	19	30.10	-3.3X					i	21	42.40	
				PP	17	47.00		INK		117.33	20	ePKP	19	35.00	-3.3X	CLL		162.72	310	ePKP	20	59.00	4.4X
				SKS	24	34.00		PDCR		118.77	145	ePKP	19	39.90	-2.8X	KMR		163.06	299	iPKP-	20	50.30	-4.7X
				S	25	04.00		YKA		119.56	31	ePKP	19	38.70	-4.1X					i	21	46.30	
SNY		94.08	326	Pc	14	08.00	-3.6X			0.9s		7.00nm								ePP	25	30.00	
MDJ		94.12	331	eP	14	10.30	-1.4	QUE		119.86	285	ePKP	19	43.60	-1.0	KHC		163.14	302	PKP	20	57.50	2.4
	Z	20s		1.80um			5.5Msz			1.0s		35.50nm					Z	19s		2.00um			
				eS	25	22.00						eS	26	38.50			N	19s		0.60um			
CN2		94.97	328	Pc	14	15.00	-0.7	SOB1		120.92	142	ePKP	19	46.00	-0.8		E	19s		1.50um			
		6.0s		400.00nm			6.0mb X	FFC		121.02	42	iPKPd	19	42.60	-3.2X					e	21	46.50	
	Z	20s		6.20um			6.1Msz			1.1s		23.00nm								e	25	34.00	
	N	20s		1.90um				RSCP		121.35	69	PKP	20	00.00	12.9X	MOX		163.80	309	e(PKP)	20	50.00	-5.7X
	E	20s		1.00um					Z	22s		2.12um			5.7Msz		Z	22s		2.20um			
				pP	14	20.00	16kmX	LWI		124.62	227	iPKP-	19	53.20	-1.0					i	21	48.50	
				eS	25	24.00		MBC		125.68	16	ePKPd	19	50.90	-3.3X	CTI		165.10	292	PKPc	21	02.80	5.7X
				eSS	31	51.00				0.9s		30.00nm				SOTA		165.17	297	iPKPc	20	56.10	-1.1
XAN		95.07	312	Pd	14	16.90	0.4	RSNY		132.92	63	e(PKP)	20	07.00	-1.9			1.3s		20.50nm			
	N	16s		1.20um				BCAO		135.58	220	iPKPd	19	54.50	-20.4X					i	21	01.60	
	E	16s		1.00um						0.8s		7.00nm								i	21	06.60	
				SKS	24	50.00						id	21	12.90		VAI		167.11	293	PKP	20	57.50	-1.0
				S	25	28.00						ic	23	39.10		IFR		171.16	198	iPKP	21	04.00	2.4
CD2		95.75	307	P	14	22.00	2.3	KER		136.43	279	ePKP	20	15.00	-1.1	EBR		173.28	263	ePKP	21	04.00	2.0
	Z	19s		3.70um			5.9Msz	TAB		138.58	283	ePKP	20	18.00	-2.0					ePP	26	20.00	
BJI		95.93	320	eP	14	19.50	-0.7	FRB		139.61	37	ePKP	20	09.00	-11.8X	MAL		173.93	211	iPKP	21	02.00	-0.3
	Z	18s		2.64um			5.8Msz	PRNI		143.52	266	ePKP	20	24.00	-4.8X	TOL		176.14	238	iPKP+	20	59.00	-3.9X
	N	18s		1.67um				KUK		143.64	193	ePKP	20	25.00	-4.5X					iPKKP	22	42.00	
				ePP	18	10.00		BURJ		143.85	269	PKPc	20	28.50	-1.0					iPP	26	33.00	
				eSKS	24	52.00		JVI		144.04	268	ePKP	20	26.00	-3.7X					iPPP	30	52.00	
				eS	25	30.00		ADI		144.68	270	ePKP	20	28.50	-2.2					eSS	47	37.00	
				SS	32	12.00		GAZ		144.92	278	ePKP	20	29.50	-1.4		S.D. = 1.2 on 153 of 221 obs.						
TIY		95.97	317	iPc	14	20.00	-0.6	KEV		146.80	338	iPKP	20	33.00	-0.1	----------							
		4.0s		700.00nm			6.5mb X			1.0s		212.00nm				? JAN 28, 1991 18h 02m 10.08± 2.67s							
	Z	22s		2.00um			5.5Msz	CSS		146.92	272	ePKP	20	34.50	0.1	34.025 N ±25.9km 73.798 E ±23.4km							
	N	19s		2.30um				KVT		147.07	284	ePKP	20	31.00	-3.5X	DEPTH = 33.0km (normal)							
				sP	14	36.00		PPCY		147.62	271	ePKP	20	33.00	-2.4	5.2mb (1 obs.)							
				SKS	24	54.00		SOD		148.35	335	iPKP	20	37.40	1.8X	PAKISTAN							(710)

28d 18h

NDI 6.07 150 eP 03 40.00 0.0
GKN 11.06 120 P 04 49.20 0.0
DMN 11.63 120 P 04 57.30 0.3
KKN 11.65 119 P 04 56.80 -0.5
0.6s 24.00nm 5.5mb X
PKI 11.87 120 P 04 59.80 -0.5
0.8s 22.00nm 5.4mb X
GUN 12.02 117 P 05 03.10 0.7
WRA 78.73 123 P 14 11.00 0.0
1.1s 29.90nm 5.2mb
S.D. = 0.5 on 7 of 7 obs.

? JAN 28, 1991 18h 09m 25.64± 0.86s
30.573 N ±19.6km 129.009 E ±23.3km
DEPTH = 33.0km (normol)
5.6mb (20 obs.) 5.3Msz (5 obs.)
KYUSHU, JAPAN (235)

LZH 21.71 291 eP 14 15.00 -0.9
2.0s 25.00nm 4.3mb X
Z 22s 1.51um 4.4Msz
N 16s 1.05um
E 16s 0.96um
PP 17 57.00
S 25 10.00
sS 25 20.00
i 25 53.00
PS 26 22.00
i 27 40.00
WRA 50.49 173 P 18 22.00 -0.6
1.2s 0.90nm 3.6mb X
PMR 59.81 33 P 19 30.00 0.3
Z 20s 2.00um 5.2Msz
UPP 73.85 331 iPKP 21 12.60 14.1X
NB2 75.74 334 P 21 19.50 10.0X
1.0s 50.20nm
CLL 80.99 325 iPKP 21 43.90 5.7X
2.3s 220.00nm 5.7mb
Z 20s 1.00um 5.2Msz
PRU 81.03 324 ePKPd 21 41.50 3.0X
Z 20s 1.70um 5.4Msz
N 18s 1.10um
E 18s 1.10um
e 21 48.00
e 22 38.00
PP 25 32.00
VKA 81.13 321 iP 21 39.70 0.7
2.2s 213.00nm 5.8mb
e 25 22.00
HOF 82.17 325 eP 21 47.70 3.2X
GRF 82.89 325 ePKPd 21 51.80 3.6X
e 21 57.80
WIT 82.99 329 eP 21 55.00 6.5X
BHG 83.29 322 eP 21 50.20 -0.1
VBY 83.37 320 ePKP 21 44.00 -6.7X
i 21 51.00
LJU 83.44 320 ePKP 21 46.00 -5.1X
e 21 53.00
WTS 83.48 328 eP 21 55.00 3.9X
2.0s 112.00nm 5.6mb
FUR 83.84 323 iPc 21 55.70 2.6
SOTA 84.49 323 iPd 21 55.00 -1.5
1.0s 38.00nm 5.5mb
ic 21 55.20
i 22 00.60
i 22 30.50
i 22 54.40
ENN 84.72 328 eP 22 02.00 4.6X
2.0s 167.00nm 5.9mb
GWF 85.14 326 P 22 02.41 2.8X
EKA 85.15 335 P 22 00.00 0.5
0.8s 5.60nm 4.8mb
WLS 85.65 325 P 22 04.30 2.1
FEL 85.69 325 P 22 03.22 0.7
CDF 85.69 325 P 22 04.46 2.0
ECH 85.88 325 P 22 05.07 1.7
MOF 86.14 325 P 22 05.73 1.0
BSF 86.32 325 P 22 06.58 1.0
HAU 86.42 325 eP 22 05.50 -0.5
1.1s 24.40nm 5.3mb
VITF 86.45 326 P 22 07.91 1.9
LOMF 86.63 325 P 22 06.55 -0.6
RSL 87.87 324 P 22 11.00 -2.2
LPL 87.93 323 eP 22 08.60 -5.0X
1.0s 38.00nm 5.6mb
LPG 87.94 323 eP 22 08.60 -5.1X
1.0s 24.00nm 5.4mb

LOR 88.14 326 eP 22 13.50 -0.8
LBF 88.29 326 eP 22 14.00 -1.1
1.1s 45.20nm 5.7mb
SSF 88.46 326 eP 22 15.30 -0.5
SMF 88.59 326 eP 22 15.10 -1.4
1.2s 41.65nm 5.6mb
SBF 88.69 322 eP 22 06.30 -10.8X
1.0s 44.00nm
AVF 88.73 326 eP 22 16.20 -0.9
0.9s 22.95nm 5.5mb
PGF 88.73 320 eP 22 00.90 -16.4X
1.1s 36.65nm
LDF 89.02 329 eP 22 18.70 0.2
0.8s 10.75nm 5.2mb
BGF 89.14 326 eP 22 18.10 -1.0
FRF 89.32 322 eP 22 09.00 -11.0X
1.1s 34.20nm
GRR 89.50 329 eP 22 20.90 0.2
1.0s 22.00nm 5.4mb
MAF 89.51 326 eP 22 19.90 -1.0
1.0s 26.00nm 5.5mb
LRG 89.54 322 eP 22 10.00 -11.0X
1.1s 34.20nm
LMR 89.55 322 eP 22 10.30 -10.7X
1.1s 19.55nm
TCF 89.64 326 eP 22 20.80 -0.7
1.1s 34.20nm 5.5mb
LPF 89.85 329 eP 22 22.70 0.4
0.8s 10.75nm 5.2mb
LSF 89.99 327 eP 22 22.40 -0.7
MFF 90.51 328 eP 22 25.70 0.2
RJF 90.68 326 eP 22 24.60 -1.7
0.9s 22.95nm 5.5mb
Z 20s 3.75um 5.8Msz
CAF 90.69 325 eP 22 23.30 -3.1X
1.3s 46.95nm 5.7mb
LPO 91.30 326 eP 22 26.50 -2.6X
LFF 91.32 326 eP 22 27.40 -1.8
1.1s 29.30nm 5.6mb
NAI 92.54 270 eP 22 38.00 2.4
S.D. = 1.3 on 34 of 55 obs.

JAN 28, 1991 19h 11m 06.72± 1.14s
5.555 N ± 9.9km 95.518 E ± 9.5km
DEPTH = 133.3 ± 11.5 km
4.7mb (24 obs.)
NORTHERN SUMATERA (706)

TSI 3.66 124 eP 12 07.00 4.2X
eS 12 36.00
SNG 5.32 72 eP 12 24.00 -1.1
IPM 5.57 100 ePc 12 29.90 1.3
0.4s 45.70nm 5.1mb
e 14 09.00
KLM 6.58 111 ePd 12 42.00 -0.3
NNT 8.13 30 eP 14 06.40 63.1X
KGM 8.54 114 ePc 13 08.50 -0.3
PCT 10.76 32 eP 14 06.40 28.1X
CHG 13.60 14 ePc 14 21.30 6.0X
0.9s 13.03nm 4.3mb
KOD 18.47 286 eP 15 15.10 -0.4
GBA 19.53 295 P 15 26.00 -0.2
S 18 50.00
SHL 20.20 350 eP 15 34.00 0.7
eS 19 07.00
HYB 20.36 307 iPc 15 35.00 0.3
1.0s 25.00nm 4.6mb
e 15 55.00
eS 19 23.00
PKI 23.91 337 PKP 16 11.60 1.7
GUN 24.05 339 P 16 10.20 -1.0
DMN 24.07 337 P 16 13.00 1.7
KKN 24.16 337 P 16 12.60 0.5
GKN 24.60 336 P 16 14.00 -2.2
BJI 39.04 25 eP 18 14.50 -7.5X
1.0s 18.00nm 4.8mb
ASPA 47.39 129 iPc 19 30.20 0.6
0.4s 8.50nm 4.8mb
eS 26 14.60
MLR 71.78 316 eP 22 20.00 3.3X
e 25 57.00
KAF 75.47 333 eP 22 36.00 -1.5
NUR 75.82 331 eP 22 29.00 -10.5X
SPC 76.20 319 eP 22 41.30 -0.8
KRA 76.51 320 iPd 22 43.50 -0.1
BCAO 76.65 273 iPc 22 45.20 0.1
0.4s 15.00nm 5.1mb

id 23 11.20
SOD 76.86 338 iP 22 44.90 -0.3
SRO 77.31 318 eP 22 48.20 0.2
ZST 78.16 318 iP 22 53.00 0.3
e 25 07.80
e 25 14.40
KSP 78.91 321 iPd 22 57.00 0.2
e 25 11.50
BRG 80.40 321 iP 23 05.20 0.5
1.0s 10.00nm 4.5mb
e 24 54.80
HFS 81.14 330 eP 23 07.50 -0.8
0.5s 7.80nm 4.7mb
CTI 81.78 316 Pc 23 14.50 2.4
OGA 82.21 316 iPd 23 14.70 0.2
NB2 82.41 331 P 23 14.30 -0.7
0.7s 3.20nm 4.2mb
CDF 84.72 318 eP 23 26.50 -0.5
BSF 85.07 317 eP 23 28.00 -0.8
LPG 85.21 315 eP 23 29.90 0.0
0.8s 8.05nm 4.6mb
LPL 85.23 315 eP 23 30.00 0.2
0.7s 8.80nm 4.7mb
HAU 85.36 318 eP 23 29.70 -0.5
0.7s 8.80nm 4.7mb
FRF 85.40 313 eP 23 30.70 0.3
0.7s 6.60nm 4.6mb
LMR 85.51 313 eP 23 31.00 0.0
LRG 85.61 313 eP 23 31.90 0.5
0.9s 16.40nm 4.9mb
LBF 87.03 317 eP 23 38.30 -0.1
0.7s 6.05nm 4.7mb
LOR 87.09 317 eP 23 38.40 -0.2
0.7s 7.15nm 4.7mb
SMF 87.16 316 eP 23 38.70 -0.2
0.7s 6.60nm 4.7mb
SSF 87.35 317 eP 23 40.00 0.2
AVF 87.48 317 eP 23 40.40 0.0
MAF 88.07 316 eP 23 43.60 0.2
0.5s 1.80nm 4.4mb
TCF 88.31 316 eP 23 47.80 3.3X
1.3s 12.65nm 4.8mb
CAF 88.56 315 eP 23 44.80 -1.0
1.3s 18.05nm 5.0mb
LSF 88.79 316 eP 23 43.80 -3.0X
1.3s 32.50nm 5.2mb
LDF 89.60 319 eP 23 50.80 0.3
0.8s 10.75nm 5.0mb
FLN 89.81 319 eP 23 51.70 0.2
0.7s 11.00nm 5.0mb
EKA 90.40 326 Pc 23 55.50 1.5
1.1s 5.70nm 4.6mb
PPD 143.99 240 e(PKP)30 28.00 -0.8
S.D. = 0.9 on 46 of 55 obs.

JAN 28, 1991 19h 15m 57.26± 0.26s
26.745 N ± 5.5km 44.602 W ± 4.4km
DEPTH = 10.0km (geophysicist)
4.8mb (28 obs.)
NORTH ATLANTIC RIDGE (403)

CBM 27.39 324 P 21 39.00 -5.6X
RSNY 29.88 314 P 22 08.00 0.8
1.0s 16.27nm 4.8mb
IFR 34.65 69 iPd 22 52.00 2.9X
TOL 36.03 58 eP 23 05.50 4.8X
EPF 39.78 54 eP 23 32.60 0.5
LPF 39.94 46 eP 23 33.60 0.4
1.1s 14.65nm 4.6mb
FRB 40.15 344 eP 23 35.00 0.3
MFF 40.16 48 eP 23 35.40 0.4
1.1s 24.40nm 4.8mb
GRR 40.16 46 eP 23 35.30 0.3
1.1s 19.55nm 4.7mb
LFF 40.40 51 eP 23 37.30 0.2
1.0s 22.00nm 4.8mb
LDF 40.68 46 eP 23 39.60 0.3
BAO 42.25 185 ePd 23 54.00 1.4
AVF 42.55 49 eP 23 54.90 0.3
1.3s 18.05nm 4.6mb
TIC 42.60 111 P 23 56.00 0.6
SSF 42.70 49 eP 23 55.90 0.0
1.1s 11.00nm 4.5mb
LIC 42.82 111 P 23 57.06 -0.2
SMF 42.85 49 eP 23 57.50 0.3
1.1s 24.40nm 4.8mb
LOR 42.98 48 eP 23 58.00 -0.2

	1.1s	9.75nm			4.4mb
KIC	42.99	111 P	23	58.50	-0.1
	0.8s	4.50nm			4.2mb
LBF	43.01	49 eP	23	58.30	-0.2
	1.1s	13.45nm			4.6mb
TUL	44.25	295 e(P)	24	11.10	2.5
HAU	44.77	48 eP	24	12.40	-0.3
	1.3s	21.65nm			4.9mb
BSF	45.03	48 eP	24	14.40	-0.6
	1.3s	18.05nm			4.8mb
SIV	45.39	203 P	24	16.00	-1.9
CDF	45.45	47 eP	24	17.90	-0.3
	1.0s	10.00nm			4.7mb
SOTA	47.93	49 i(P)	24	38.00	0.1
	1.0s	16.10nm			5.1mb
		i	24	44.70	
GRF	48.20	46 eP	24	41.00	1.2
		e	24	46.10	
ZOBO	48.48	211 P	24	42.00	-0.9
	1.1s	11.02nm			4.8mb
MOX	48.57	45 eP	24	48.00	5.4X
CCH	48.60	208 (P)	25	01.00	17.6X
LPB	48.70	211 eP	24	45.00	0.6
CNCB	48.89	210 iPc	24	46.00	0.0
KHC	49.67	47 eP	24	51.40	0.3
		e	24	57.60	
FFC	49.89	320 iPd	24	52.80	0.1
	0.8s	23.00nm			5.2mb
PRU	50.36	46 eP	25	02.50	6.1X
		e	25	10.00	
NB2	50.54	31 P	24	55.60	-2.0
	1.3s	9.10nm			4.6mb
HFS	51.49	33 eP	25	03.90	-0.8
	0.8s	6.10nm			4.6mb
ALQ	53.01	295 eP	25	16.50	-0.3
	1.4s	14.53nm			4.7mb
KRA	53.84	46 eP	25	29.20	6.8X
BW06	54.44	305 P	25	26.80	-0.4
	1.2s	14.84nm			4.9mb
SES	55.06	314 eP	25	31.00	-0.5
LRM	56.24	309 eP	25	40.30	0.0
EDM	56.46	318 eP	25	41.00	-0.5
MSU	56.96	300 P	25	46.00	0.5
YKA	57.42	329 eP	25	46.40	-1.7
	0.8s	8.00nm			4.8mb
NEW	59.17	312 P	25	59.80	-0.8
	1.0s	20.63nm			5.2mb
MBC	60.60	345 ePd	26	10.00	0.0
	1.1s	16.00nm			5.1mb
BCAO	64.07	99 iPc	26	33.20	-0.9
	0.4s	19.00nm			5.6mb
		ic	26	39.90	
INK	65.05	336 eP	26	38.00	-1.6
RMN	68.27	66 eP	27	00.00	-0.8
MBH	68.71	67 eP	27	04.00	0.5
FBA	71.47	334 eP	27	20.10	0.5
	0.9s	12.80nm			5.0mb
KLU	72.03	330 P	27	22.70	-0.4
IMA	73.18	336 eP	27	31.20	1.3
	1.0s	13.70nm			5.0mb
PMR	73.39	331 eP	27	31.50	0.5
	0.7s	14.50nm			5.2mb
LWI	76.24	100 ePc	27	49.10	0.7
SVW	76.38	332 eP	27	48.60	0.4
DZM	151.39	273 iPKPc	35	54.00	6.8X
	S.D. = 0.8	on 50 of 58 obs.			

JAN 28, 1991 20h 09m 06.87± 0.69s
49.163 N ± 4.2km 6.876 E ± 8.4km
DEPTH = 10.0km (geophysicist)
GERMANY (543)
MD 2.3 (STR).

GWF	0.52	110 Pg	09	17.00	-0.5
RUP	0.55	12 ePg	09	17.77	-0.4
CDF	0.80	160 Pg	09	22.64	0.2
		Sg	09	35.31	
WLS	0.81	157 Pg	09	22.00	-0.7
ABH	0.84	31 ePg	09	22.68	-0.5
ECH	0.97	169 Pg	09	25.43	0.2
		Sg	09	39.82	
VITF	1.12	212 Pg	09	27.35	-0.4
		Sg	09	43.31	
MOF	1.32	172 Pg	09	32.08	0.7
BSF	1.33	182 Pg	09	31.65	0.1
		Sg	09	50.86	
TNS	1.47	43 ePn	09	34.70	1.2
		eSn	09	54.20	
	S.D. = 0.7	on 10 of 10 obs.			

% JAN 28, 1991 20h 24m 59.62± 0.69s
40.143 N ± 5.3km 29.301 E ± 7.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

YLV	0.43	7 iPg	25	07.30	-1.0
		iSg	25	14.80	
HRT	0.73	22 ePn	25	14.30	0.3
DST	0.75	224 iPg	25	12.60	-1.7
		iSg	25	23.10	
ISK	0.94	349 ePn	25	17.80	0.3
BNT	1.08	282 iPn	25	20.80	0.9
EDC	1.12	281 ePn	25	21.00	0.4
ALT	1.25	150 ePn	25	23.30	0.3
KHL	1.83	175 ePn	25	32.00	0.6
	S.D. = 1.0	on 8 of 8 obs.			

JAN 28, 1991 21h 02m 56.53± 0.61s
36.087 N ± 8.3km 31.449 E ± 8.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.6 (ISK).

ELL	1.41	298 iPg	03	23.70	1.4
BCK	1.54	334 iPn	03	23.80	-0.3
KHL	2.71	326 ePn	03	42.00	1.0
YER	2.75	293 iPn	03	41.40	-0.2
ALT	3.15	341 ePn	03	47.30	0.1
BBTK	3.89	15 eP	03	59.00	1.3
		eS	04	33.00	
IZM	4.06	306 ePn	03	58.80	-1.2
DST	4.16	328 ePn	04	00.00	-1.5
GAZ	4.76	75 ePn	04	09.00	-1.0
ZNT	4.85	141 eP	04	11.00	-0.3
		eS	05	01.00	
BURJ	5.27	135 P	04	18.50	1.2
DSI	5.57	143 eP	04	21.00	-0.4
VAY	8.69	310 iPg	05	06.70	1.6X
	S.D. = 1.1	on 12 of 13 obs.			

? JAN 28, 1991 21h 30m 14.97±10.22s
2.878 N ±30.2km 79.399 W ±88.4km
DEPTH = 33.0km (normal)
SOUTH OF PANAMA (83)
MD 4.1 (UVC).

CUMC	2.44	141 eP	30	53.86	0.0
ANCC	2.61	76 iPc	30	55.60	-0.2
		eS	31	24.70	
SALC	2.70	88 ePc	30	57.05	-0.2
HOOC	2.82	78 ePc	30	58.69	-0.3
CLMC	3.00	71 ePc	31	01.44	-0.1
DIAC	3.22	83 ePc	31	05.07	0.4
BUGC	3.30	72 eP	31	05.84	0.2
		eS	31	42.60	
	S.D. = 0.3	on 7 of 7 obs.			

? JAN 28, 1991 21h 48m 24.06± 0.90s
26.549 N ±19.6km 44.868 W ±22.4km
DEPTH = 10.0km (geophysicist)
4.4mb (2 obs.)
NORTH ATLANTIC RIDGE (403)

ZOBO	48.19	211 P	57	06.00	-1.4
	Z 24s	0.08um			3.6MszX
		eLR	11	04.00	
LPB	48.41	210 P	57	13.00	4.1X
CNCB	48.60	210 eP	57	12.00	1.4
KHC	49.98	47 eP	57	20.20	-0.1
YKA	57.47	329 eP	58	15.30	0.1
	1.2s	1.80nm			4.0mb
BCAO	64.28	98 ePd	59	02.30	0.1
	0.8s	5.00nm			4.8mb
	S.D. = 1.4	on 5 of 6 obs.			

? JAN 28, 1991 21h 56m 42.47± 0.82s
3.953 N ±19.2km 76.321 W ±25.4km
DEPTH = 110.0km (geophysicist)
COLOMBIA (103)
MD 2.5 (UVC).

BUGC	0.09	133 eP	56	58.88	-0.4
CLMC	0.25	254 eP	56	59.41	-0.3
HOBC	0.44	25 eP	56	59.63	0.3
DIAC	0.67	169 eP	57	01.14	0.1
		eS	57	15.40	
ANCC	0.70	231 eP	57	01.35	0.3
	S.D. = 0.5	on 5 of 5 obs.			

JAN 28, 1991 22h 24m 46.69± 0.76s
26.029 N ±11.2km 95.292 E ± 7.8km
DEPTH = 33.0km (normal)
5.0mb (1 obs.)
BURMA-INDIA BORDER REGION (294)

SHL	3.11	262 iP	25	35.50	0.8
		eS	26	06.50	
KMI	6.79	96 eP	26	37.50	10.7X
CHG	7.93	154 ePn	26	44.30	1.6
		eSg	28	55.00	
GUN	8.60	285 P	26	52.80	0.5
PKI	8.96	282 P	26	57.00	-0.2
KKN	9.11	283 P	26	59.00	-0.1
DMN	9.23	282 P	27	00.40	-0.5
BDT	9.40	158 eP	27	01.90	-0.9
	0.6s	37.50nm			5.8mb X
GKN	9.70	284 P	27	06.80	-0.4
NST	11.25	155 eP	27	31.00	2.7X
LZH	12.41	34 eP	27	51.60	7.6X
	1.0s	40.00nm			5.5mb X
HYB	17.74	244 eP	28	53.00	0.1
		eS	31	55.00	
GBA	20.82	237 P	29	34.10	6.1X
		S	33	24.10	
MDJ	33.25	47 eP	31	23.60	0.7
	Z 12s	1.40um			4.9MszX
	N 10s	1.09um			
ASPA	61.94	140 iPc	35	04.20	-1.6
	0.6s	7.90nm			5.0mb
HFS	63.66	326 eP	35	41.50	24.8X
	0.6s	3.90nm			
NB2	64.76	328 P	35	45.00	21.1X
	0.7s	0.90nm			
	S.D. = 1.0	on 11 of 17 obs.			

JAN 28, 1991 22h 28m 05.55± 0.19s
38.429 N ± 3.6km 112.684 E ± 3.5km
DEPTH = 33.0km (normal)
5.0mb (37 obs.) 4.6Msz (6 obs.)
NORTHEASTERN CHINA (658)

TIY	0.74	195 iPgc	28	20.00	0.4
		Sg	28	29.50	
HHC	2.57	341 Pnd	28	46.40	0.6
	Z 10s	17.80um			
		Pg	28	50.80	
		Sg	29	23.00	
BTO	2.99	317 iPnd	28	53.00	1.2
		Pg	28	58.00	
		Sg	29	36.00	
BJI	3.15	58 Pn	28	53.50	-0.5
		Pg	29	02.00	
		Sn	29	28.00	
		Sg	29	40.00	
TIA	4.17	121 Pnc	29	08.30	-0.2
		Pg	29	19.30	
XAN	5.33	216 Pn	29	25.00	0.0
		Pg	29	43.00	
		Sn	30	27.00	
		Sg	30	53.20	
LZH	7.43	254 ePn	29	53.00	-1.5
	Z 14s	5.30um			5.4Msz
		Pg	30	20.00	
		eSn	31	18.00	
WHN	7.99	170 P	30	02.00	-0.2
	0.5s	100.00nm			6.2mb X
	Z 12s	3.00um			4.1Msz
	N 10s	4.40um			
		pP	30	08.00	
		S	31	30.00	
NJ2	8.12	140 Pc	30	02.60	-1.4
	Z 12s	4.70um			
	N 11s	4.30um			
	E 10s	3.10um			
		sP	30	11.00	
		S	31	32.00	
SNY	9.01	64 Pc	30	13.70	-2.6
	0.8s	100.00nm			6.0mb X
	Z 15s	2.00um			4.3MszX
GTA	10.08	280 iPd	30	28.50	-2.7

28d 22h

	0.8s	50.00nm		5.8mb			
		S	32	20.60			
SSE	10.12	134 eP	30	30.50	-1.1		
Z	16s	6.20um					
N	12s	2.30um					
E	13s	2.60um					
CD2	10.50	227 P	30	35.50	-1.3		
CN2	11.02	57 Pd	30	41.40	-2.5		
Z	10s	5.00um		4.9MszX			
		epP	30	47.00			
		eS	32	44.00			
GYA	12.97	205 iPd	31	09.00	-1.3		
	1.6s	100.00nm		5.6mb			
Z	14s	2.80um		4.3Msz			
		PP	31	19.00			
		S	33	34.60			
KMI	15.71	215 eP	31	47.00	0.7		
	1.2s	50.00nm		4.6mb			
Z	10s	3.20um		4.1MszX			
OIZ	19.49	188 eP	32	33.80	1.0		
N	12s	2.70um					
E	13s	1.80um					
		eS	36	08.00			
WMO	19.55	294 iPc	32	33.50	0.1		
Z	14s	3.40um					
		sP	32	41.00			
LSA	19.82	250 P	32	34.50	-2.2		
		eS	36	18.50			
MAT	20.33	87 (P)	32	42.00	0.4		
	1.0s	22.00nm		4.5mb			
		eS	36	42.00			
SHL	21.75	240 eP	32	55.50	-0.8		
CHG	22.91	215 ePc	33	09.00	1.3		
	0.9s	11.55nm		4.4mb			
LOE	23.04	208 eP	33	15.00	6.2X		
GUN	24.69	253 P	33	26.00	0.8		
KKN	25.20	253 P	33	30.00	0.1		
PKI	25.22	253 P	33	31.00	0.7		
DMN	25.43	253 P	33	32.40	0.3		
GKN	25.58	254 P	33	33.20	-0.2		
PGP	25.89	161 ePc	33	48.00	11.9X		
HYB	36.41	245 ePc	35	09.00	0.1		
		e	35	14.50			
OUE	38.34	272 eP	35	25.90	0.6		
GBA	39.80	241 P	35	37.80	0.5		
KOD	42.20	238 eP	35	58.40	1.0		
ADK	49.67	50 eP	37	14.30	18.4X		
	0.9s	50.90nm					
TAB	51.05	292 eP	37	08.00	1.3		
KEV	53.07	334 eP	37	22.00	0.7		
SOD	53.73	331 eP	37	27.00	0.9		
KAF	55.28	325 eP	37	37.00	-0.6		
NUR	56.55	324 iP	37	46.20	-0.6		
	0.8s	26.40nm		5.3mb			
IMA	56.99	29 P	37	48.80	-1.2		
SDN	57.80	42 eP	38	03.20	7.6X		
FBA	59.71	29 eP	38	08.60	-0.2		
	0.9s	23.70nm		5.3mb			
PMR	60.65	33 eP	38	14.70	-0.6		
	1.1s	30.50nm		5.3mb			
MBC	60.96	12 ePd	38	16.30	-0.9		
	1.0s	26.00nm		5.3mb			
VRI	61.22	307 eP	38	23.50	4.1X		
TOA	61.65	32 eP	38	22.50	0.3		
HFS	61.68	326 eP	38	20.50	-1.8		
	0.5s	2.90nm		4.7mb			
Z	16s	1.42um		5.2MszX			
		LR	05	36.00			
DSI	61.98	289 eP	38	25.00	0.3		
KLU	62.05	32 P	38	24.40	-0.5		
NB2	62.31	327 P	38	25.30	-1.3		
	0.9s	12.50nm		5.0mb			
INK	62.82	22 ePd	38	28.40	-1.3		
PRNI	62.88	288 eP	38	31.00	0.3		
KRA	63.32	314 ePd	38	33.50	0.2		
	0.9s	32.00nm		5.4mb			
Z	20s	1.50um		5.2Msz			
SPC	63.56	313 eP	38	34.50	-0.7		
ASPA	64.90	159 eP	38	43.00	-0.8		
	0.5s	7.80nm		5.1mb			
		e	38	49.00			
		e	38	54.50			
KSP	64.96	316 eP	38	43.50	-0.5		
SRO	65.36	312 eP	38	47.00	0.4		
ZST	65.86	313 eP	38	50.20	0.4		
CTA	66.19	145 iPd	38	58.20	6.1X		
	1.4s	34.88nm		5.3mb			
BRG	66.22	317 iP	38	51.50	-0.6		
	1.0s	20.00nm		5.2mb			
PRU	66.36	316 P	38	53.20	0.2		
CLL	66.49	318 iPd	38	53.20	-0.6		
	1.1s	21.00nm		5.1mb			
KHC	67.35	315 eP	39	00.00	0.6		
GRF	68.33	317 eP	39	05.70	0.3		
	1.2s	37.00nm		5.3mb			
Z	22s	0.30um		4.5Msz			
		e	39	14.00			
SOTA	69.73	315 iPc	39	14.10	-0.1		
	1.3s	21.90nm		5.1mb			
		i	39	19.30			
		i	39	22.30			
CTI	70.16	313 Pc	39	18.00	1.2		
CDF	71.18	317 eP	39	22.40	-0.6		
	1.0s	18.00nm		5.1mb			
BSF	71.79	317 eP	39	25.90	-0.8		
VAI	71.89	314 Pc	39	28.20	1.1		
HAU	71.92	317 eP	39	26.50	-0.8		
Z	19s	0.43um		4.7Msz			
YKA	72.49	21 eP	39	27.90	-2.5		
	0.8s	12.80nm		5.0mb			
LPL	73.24	315 eP	39	35.30	-0.1		
	1.1s	14.65nm		4.9mb			
LPG	73.24	315 eP	39	35.30	-0.2		
	1.1s	14.65nm		4.9mb			
LOR	73.70	318 eP	39	36.60	-1.2		
	0.7s	4.95nm		4.6mb			
Z	19s	0.45um		4.8Msz			
LBF	73.82	318 eP	39	37.60	-0.9		
SSF	74.02	318 eP	39	38.90	-0.7		
	0.7s	3.30nm		4.4mb			
SMF	74.11	317 eP	39	39.60	-0.5		
	1.1s	19.55nm		5.0mb			
AVF	74.27	318 eP	39	40.50	-0.5		
	1.1s	11.00nm		4.8mb			
FRF	74.50	314 eP	39	41.60	-0.8		
LMR	74.72	313 eP	39	43.10	-0.6		
	1.1s	14.65nm		4.9mb			
LDF	74.88	321 eP	39	44.00	-0.5		
	1.0s	12.00nm		4.8mb			
FLN	74.95	321 eP	39	44.10	-0.8		
Z	18s	0.20um		4.5Msz			
MAF	75.05	318 eP	39	45.50	-0.1		
	1.1s	12.20nm		4.8mb			
TCF	75.20	318 eP	39	46.20	-0.3		
GRR	75.39	321 eP	39	46.90	-0.5		
	0.9s	8.20nm		4.7mb			
LSF	75.58	318 eP	39	48.10	-0.5		
LPF	75.72	321 eP	39	49.30	0.0		
CAF	76.16	317 eP	39	52.20	0.2		
	1.0s	10.00nm		4.8mb			
RJF	76.21	317 eP	39	52.30	0.1		
	0.7s	5.50nm		4.7mb			
Z	20s	0.25um		4.5Msz			
MFF	76.22	319 eP	39	52.30	0.1		
LPO	76.79	317 eP	39	55.60	0.2		
	0.7s	5.50nm		4.7mb			
LFF	76.86	317 eP	39	56.30	0.5		
	0.7s	5.50nm		4.7mb			
FRB	78.16	1 ePd	40	02.50	0.0		
DZM	78.50	130 iPd	40	06.30	1.2		
PNT	81.16	32 eP	40	19.00	0.0		
LON	82.20	34 P	40	25.00	0.5		
GUD	82.43	317 eP	40	27.00	1.1		
FFC	82.56	19 iPc	40	25.20	-1.0		
	0.8s	16.00nm		5.1mb			
TOL	82.91	316 eP	40	30.00	1.7		
NEW	83.01	31 P	40	28.50	-0.2		
	0.9s	7.13nm		4.8mb			
FHC	85.68	40 P	41	00.50	18.2X		
WDC	86.57	39 eP	40	47.70	1.1		
LWI	86.58	264 iPc	40	48.70	1.4		
SCH	87.12	360 eP	40	50.00	1.0		
ORV	87.86	39 eP	40	50.60	-2.3		
MHC	89.50	40 e(P)	41	02.70	1.8		
CMB	89.59	39 ePd	41	02.70	1.5		
LLA	90.41	40 eP	41	06.90	1.9		
FRI	90.74	39 ePd	41	07.90	1.5		
PRI	90.92	41 eP	41	09.50	2.0		
TNP	91.09	37 P	41	09.80	1.4		
	1.0s	11.67nm		5.2mb			
RSSD	91.38	26 P	41	10.00	0.4		
ABL	92.66	40 P	41	17.60	2.0		
CLC	92.71	39 eP	41	17.00	1.3		
MSU	93.03	34 P	41	19.00	1.7		
SBB	93.49	40 eP	41	21.00	1.7		
GSC	93.51	39 eP	41	21.00	1.6		
PDCR	144.04	308 (PKP)	47	35.00	-4.8X		
BAO	151.63	318 ePKP	47	59.90	7.9X		
SIV	156.98	344 PKP	47	59.60	0.4		
ZOBO	157.91	2 PKP	48	02.00	1.0		

S.D = 1.1 on 112 of 121 obs.

& JAN 29, 1991 00h 43m 23.83s
61.868 N 147.852 W
DEPTH = 34.2km
SOUTHERN ALASKA (2)
<AEIC>.

SML	0.24	255 eP	43	30.33	-0.7
		eS	43	35.83	
SCM	0.25	98 iP	43	30.67	-0.5
		eS	43	36.13	
GHO	0.52	260 iP	43	33.61	-1.1
		eS	43	41.54	
KNK	0.54	212 iP	43	34.39	-0.6
		iS	43	42.76	
PLRM	0.67	246 iP	43	35.44	-1.3
		eS	43	45.52	
TOA	0.83	73 iP	43	38.66	-0.5
PWA	0.99	258 iP	43	40.57	-0.8
KLU	1.00	111 iP	43	40.43	-1.1
		eS	43	53.43	
VZW	1.02	142 eP	43	40.59	-1.4
		eS	43	55.17	
PMS	1.03	233 iP	43	41.67	-0.4
		eS	43	56.95	
VLZ	1.04	135 iP	43	40.51	-1.6
GLI	1.06	159 eP	43	41.79	-0.6
		eS	43	57.47	
TZL	1.16	80 iP	43	43.68	-0.2
CUT	1.26	296 iP	43	44.38	-0.9
		eS	44	00.60	
SDG	1.27	58 iP	43	44.68	-0.8
		eS	44	00.75	
HUR	1.39	324 eP	43	46.27	-0.9
SUA	1.44	255 eP	43	47.55	-0.4
		eS	44	07.04	
KNIM	1.53	178 eP	43	48.59	-0.6
PAX	1.57	44 iP	43	48.96	-0.9
		eS	44	09.08	
RND	1.61	344 iP	43	49.60	-0.9
		eS	44	09.88	
SKT	1.74	275 eP	43	51.77	-0.5
SLKM	1.78	221 eP	43	52.50	-0.4
MTU	1.89	177 eP	43	55.17	0.8
SEW	1.93	204 eP	43	54.16	-0.8
MCK	1.94	346 eP	43	54.79	-0.2
GLB	1.98	101 eP	43	55.22	-0.4
		eS	44	19.13	
NKA	1.99	237 eP	43	56.98	1.3
SPU	2.13	253 eP	43	57.53	-0.3
		eS	44	24.50	
CKL	2.25	255 eP	43	59.32	-0.3
BGL	2.25	256 eP	43	59.58	-0.1
BWN	2.43	343 eP	44	01.36	-0.6
		eS	44	30.85	
NNL	2.49	224 eP	44	03.92	1.1
RDT	2.56	241 eP	44	03.27	-0.6
HDA	2.58	9 eP	44	04.50	0.4
BRLK	2.58	216 eP	44	04.18	0.0
TGL	2.67	113 eP	44	04.53	-0.9
TMW	2.68	55 eP	44	03.90	-1.6
RDN	2.74	242 eP	44	05.82	-0.7
RS2	2.76	241 eP	44	06.68	-0.3
BALM	2.77	105 eP	44	06.09	-0.9
NCT	2.78	244 eP	44	06.60	-0.5
CCB	2.79	0 eP	44	06.31	-0.8
CNPM	2.88	217 eP	44	08.04	-0.4
RDS	2.97	358 eP	44	08.26	-1.5
FBA	3.04	0 eP	44	09.98	-0.7
MDM	3.11	357 eP	44	10.12	-1.5
GLM	3.14	4 eP	44	11.41	-0.7
CTGM	3.26	103 eP	44	13.35	-0.7
CDD	4.12	227 eP	44	24.41	-1.5

49 obs. ossocioted

? JAN 29, 1991 03h 04m 31.26± 3.03s
26.699 N ±12.6km 44.635 W ±92.6km
DEPTH = 10.0km (geophysicist)
4.5mb (3 obs.)
NORTH ATLANTIC RIDGE (403)

ZOBO 48.43 211 P 13 16.00 -0.5
CCH 48.54 208 eP 13 18.00 1.0
LPB 48.64 211 P 13 17.00 -1.0
CNCB 48.83 210 P 13 20.00 0.4
FFC 49.91 320 eP 13 28.00 1.2
1.0s 11.00nm 4.8mb
YKA 57.45 329 eP 14 20.60 -1.7
0.9s 1.00nm 3.8mb
MBC 60.64 345 eP 14 45.00 0.8
1.0s 5.00nm 4.6mb
INK 65.08 336 eP 15 13.50 -0.3
S.D. = 1.2 on 8 of 8 obs.

• JAN 29, 1991 03h 13m 13.35± 0.43s
44.159 S ±11.3km 94.223 E ± 7.5km
DEPTH = 10.0km (geophysicist)
5.2mb (12 obs.) 5.3Msz (6 obs.)
SOUTHEAST INDIAN RISE (435)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 20S, 51C
Centroid Location:
Origin Time 03:13:17.7 0.4
Lat 44.07S 0.04 Lon 93.98E 0.06
Dep 15.0 FIX Half-duration 2.5
Moment Tensor; Scale 10**17 Nm
Mrr=-0.70 0.06 Mtt= 0.07 0.06
Mff= 0.63 0.06 Mrt=-0.46 0.19
Mrf= 0.84 0.19 Mtf=-2.27 0.08
Principal Axes:
T Val= 2.88 Plg=15 Azm=229
N -0.91 71 11
P -1.98 11 136
Best Double Couple:Mo=2.4*10**17
NP1:Strike=272 Dip=72 Slip= 177
NP2: 3 87 18

MUN 21.08 62 eP 17 59.00 -1.0
Z 20s 15.10um 5.4Msz
NWAO 21.13 66 eP 18 00.30 -0.3
1.1s 11.00nm 4.1mb X
eS 22 04.00
KLB 22.33 64 eP 18 12.50 -0.1
ADE 35.14 90 e(P) 20 09.00 0.0
1.0s 52.00nm 5.4mb
ASPA 38.28 71 iPc 20 34.80 -0.8
1.0s 61.40nm 5.3mb
Z 23s 8.70um 5.5MszX
i 22 06.80
iS 25 31.00
WRA 41.13 67 P 20 58.00 -1.2
1.0s 42.40nm 5.1mb
CMS 42.04 90 eP 21 06.00 -0.5
OIS 44.27 73 iPc 21 23.80 -1.0
0.6s 14.00nm 5.0mb
RMQ 46.98 87 eP 21 46.00 -0.3
CTA 49.21 78 iPd 22 03.20 -0.6
1.1s 37.97nm 5.3mb
iS 29 13.00
BRS 49.34 91 iPc 22 04.50 -0.2
eS 29 15.00
SLR 55.64 266 iPd 22 49.50 -2.4
GBA 59.49 341 Pc 23 17.20 -1.6
1.4s 26.10nm 5.2mb
NST 59.78 7 eP 23 23.00 2.2
KRI 60.31 275 eP 23 28.50 3.7X
DZM 62.41 95 iPc 23 38.90 0.0
CHG 62.81 5 ePd 23 42.00 0.7
1.3s 23.08nm 5.2mb
HYB 62.93 343 eP 23 41.00 -1.1
1.2s 35.70nm 5.4mb
eS 32 14.00
POO 65.11 339 eP 23 54.00 -2.4
KMI 69.38 8 Pd 24 25.00 1.6
2.0s 80.00nm 5.5mb
Z 20s 1.60um 5.3Msz
LWI 70.97 286 ePc 24 33.20 -0.2
GYA 71.19 12 P 24 36.00 1.7
Z 18s 0.90um 5.1Msz
PKI 71.83 352 P 24 37.80 -0.6
DMN 71.90 351 P 24 38.60 -0.1
KKN 72.06 352 P 24 39.00 -0.6
GUN 72.12 352 P 24 40.20 0.1
GKN 72.34 351 P 24 40.60 -0.6
LSA 73.55 357 P 24 47.60 -1.0
Z 16s 1.80um 5.4MszX
S 34 19.50

NDI 74.14 345 eP 24 50.00 -1.5
CD2 75.21 8 P 24 58.40 0.7
Z 18s 1.70um 5.4Msz
eS 34 33.20
sS 34 43.70
QUE 78.08 336 eP 25 13.50 -0.4
XAN 78.97 12 P 25 19.80 1.3
S 35 20.00
LZH 80.35 8 Pd 25 26.80 0.7
6.0s 430.00nm 5.6mb X
Z 24s 0.77um 5.0MszX
E 15s 0.40um
sP 25 37.00
ePP 28 34.00
eS 35 33.00
BCAO 82.87 283 iPc 25 40.20 0.6
0.6s 7.00nm 5.0mb
TIY 83.14 14 eP 25 40.30 -0.2
Z 20s 1.20um 5.3Msz
N 14s 1.00um
GTA B3.34 4 eP 25 43.30 1.8
1.2s 10.00nm 4.9mb
Z 24s 1.00um 5.1MszX
E 20s 1.20um
pP 25 47.50 13kmX
eS 36 04.00
eSS 41 33.00
BTO 85.56 12 eP 25 53.00 0.4
N 15s 0.80um
E 15s 0.50um
eS 36 23.00
HHC 86.05 13 eP 25 55.80 0.7
Z 28s 1.50um 5.2MszX
N 18s 0.80um
E 14s 0.40um
BJI 86.12 17 eP 25 56.00 0.8
1.2s 24.00nm 5.2mb
Z 24s 1.27um 5.2MszX
WMQ 87.79 355 iPd 26 04.20 0.8
Z 24s 0.60um 4.9MszX
N 15s 0.80um
iS 36 48.00
PRNI 91.75 312 e(P) 26 23.00 0.8
CN2 91.90 22 eP 26 24.20 1.7
Z 20s 1.20um 5.3Msz
epP 26 28.00 12kmX
eS 37 23.00
TAB 92.60 324 eP 26 26.00 -0.1
IMA 138.10 34 PKP 32 29.40 -9.8X
IMA 138.10 34 e(PKP)32 36.00 -3.2X
SLKM 139.19 43 PKP 32 39.00 -2.2
PMR 139.82 41 ePKP 32 43.50 1.3
RND 140.05 39 PKP 32 41.00 -1.8
MBC 144.84 13 ePKP 32 49.00 -1.6
1.0s 13.00nm
INK 145.53 29 ePKP 32 50.00 -2.0
1.2s 60.00nm
BKS 151.95 90 ePKP 33 08.80 5.8X
0.6s 20.00nm
ARN 152.23 92 ePKP 33 09.50 6.0X
ABL 152.73 98 PKP 33 05.80 1.3
WDC 152.75 85 e(PKP)33 09.80 5.8X
MWC 153.24 101 ePKP 33 13.00 7.8X
e 33 28.00
MIN 153.34 86 e(PKP)33 18.70 13.6X
CMB 153.35 91 PKP 33 10.00 5.0X
FRI 153.39 94 e(PKP)33 07.00 2.0
RVR 153.60 102 ePKP 33 15.00 9.6X
PLM 153.61 104 ePKP 33 23.00 17.3X
SBB 153.64 100 ePKP 33 02.00 -3.6X
ISA 153.66 98 ePKP 33 06.00 0.4
TPC 154.59 103 ePKP 33 09.00 2.2X
GSC 154.67 100 ePKP 33 16.00 9.1X
YKA 155.18 32 ePKP 33 05.90 -0.7
1.1s 1.90nm
TNP 155.64 94 ePKP 33 09.00 0.6
PNT 156.37 65 ePKP 33 19.00 10.3X
NEW 158.01 68 PKP 33 11.80 1.0
FRB 158.05 339 ePKP 33 13.00 2.8X
MSU 159.44 97 ePKP 33 14.00 1.1
ALQ 161.63 113 e(PKP)33 15.00 -0.3
Z 20s 0.53um
BW06 162.69 86 ePKP 33 16.00 -0.1
GOL 164.76 100 PKP 33 20.00 1.7
MEO 166.39 129 e(PKP)33 20.20 0.8
RSSD 166.88 84 PKP 33 20.50 0.7
S.D. = 1.2 on 59 of 75 obs.

% JAN 29, 1991 03h 43m 21.45± 0.67s
39.126 N ± 6.3km 29.125 E ± 7.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.0 (ISK).

DST 0.61 321 iPg 43 32.50 -1.4
ALT 0.77 95 iPg 43 36.50 0.0
KHL 0.86 159 iPg 43 37.60 -0.5
iSg 43 50.10
KCT 1.27 332 ePn 43 44.80 -0.2
YLV 1.45 7 ePn 43 47.60 -0.2
BNT 1.54 323 ePn 43 48.00 -1.0
EDC 1.56 322 ePn 43 50.50 1.2
IZM 1.63 244 ePn 43 51.00 0.7
HRT 1.74 14 ePn 43 52.00 0.0
ISK 1.94 359 ePn 43 56.00 1.3
S.D. = 1.0 on 10 of 10 obs.

• JAN 29, 1991 04h 32m 51.06± 1.23s
33.440 S ± 8.2km 72.119 W ±10.0km
DEPTH = 42.3 ± 9.6 km
4.7mb (11 obs.)
OFF COAST OF CENTRAL CHILE (134)
Felt (IV) at San Antonio.

LCCH 0.46 94 iPd 32 59.60 -1.8
IHA 0.58 44 iPc 33 02.30 -0.6
i(S) 33 13.90
LNV 0.78 131 iPd 33 04.50 -1.2
ROCH 1.04 64 iPd 33 09.50 -0.1
SAN 1.22 91 iPd 33 12.20 0.3
PEL 1.24 77 iPd 33 13.20 1.0
JACH 1.49 60 iPc 33 16.30 0.5
iS 33 35.30
FCH 1.53 86 iPc 33 17.50 0.8
MDZ 2.80 79 eP 33 37.00 2.5
i 33 49.00
iS 34 15.40
ANT 9.81 9 eP 35 14.00 1.4
ARE 16.92 2 eP 36 47.00 0.4
CNCB 16.97 14 P 36 47.20 -0.4
i 41 08.00
LPB 17.22 13 P 36 50.00 -0.6
1.1s 151.90nm 5.0mb
ZOBO 17.47 13 Pc 36 52.00 -1.9
1.0s 51.25nm 4.6mb
Z 17s 1.48um 4.6MszX
LR 43 38.00
SIV 20.04 33 Pc 37 20.40 -3.0X
NNA 21.79 347 eP 37 41.50 0.2
1.1s 30.38nm 4.6mb
BMA 26.82 74 eP 38 29.00 -0.4
e 38 34.20
JFO 27.97 73 (P) 38 40.00 0.1
BAO 28.10 57 ePd 38 41.00 -0.1
PDCR 36.58 63 eP 39 53.30 -1.7
e 40 03.60
SOB1 37.52 57 eP 40 02.80 -0.1
RSCP 69.83 348 P 43 58.00 -1.1
ELC 72.15 346 P 44 11.70 -1.4
TUL 72.46 340 eP 44 13.70 -1.2
1.0s 7.90nm 4.6mb
FVM 73.07 345 P 44 16.30 -2.2
KIC 74.97 72 P 44 29.70 -0.3
ALQ 75.26 331 eP 44 31.20 -0.3
1.2s 7.81nm 4.5mb
PLM 78.64 323 eP 45 05.00 14.7X
GLD 79.01 335 P 44 52.90 0.7
1.0s 10.00nm 4.7mb
GOL 79.02 334 P 44 52.90 0.5
0.9s 4.26nm 4.4mb
GSC 80.17 324 eP 45 10.00 11.6X
SBB 80.19 323 eP 45 01.00 2.5
ISA 81.28 323 eP 45 05.00 0.8
RSSD 82.49 337 P 45 10.50 0.0
TNP 82.59 326 P 45 12.30 1.1
1.0s 6.67nm 4.6mb
BW06 83.24 333 P 45 14.50 0.0
CMB 84.09 324 eP 45 19.30 0.7
e 45 29.90
ORV 85.82 324 ePc 45 29.50 2.4
LRM 86.92 333 ePc 45 33.40 0.6
WDC 87.11 324 ePc 45 33.10 -0.3
i 45 43.80
LBFM 87.38 325 P 45 35.80 0.8

29d 04h

SCH	88.02	3	eP	45	37.00	-0.5	LHS	18.00	13	P	33	10.00	-3.7X	KLU	61.27	332	P	39	18.20	0.0
SES	90.29	336	eP	45	48.00	-0.4	RSCP	18.61	360	P	33	19.80	-1.5	TOA	61.57	332	eP	39	21.60	1.3
NEW	90.74	332	P	45	49.80	-0.7	GBTN	18.71	3	P	33	21.50	-1.0	MBC	61.89	351	eP	39	21.00	-1.1
	1.0s	5.00nm			4.8mb		TKL	18.73	4	P	33	20.60	-2.2		1.0s	47.00nm			5.6mb	
BCAO	92.96	87	ePc	46	03.00	1.5	ELC	20.55	352	P	33	41.70	-0.9				pP	39	34.00	46km
	0.7s	8.00nm			5.3mb		MZX	20.58	291	(P)	33	44.30	1.3	PMR	62.77	331	eP	39	27.40	-0.6
YKA	101.51	341	ePdiff	46	37.70	-1.4	BLA	20.72	12	P	33	44.00	-0.4	FBA	63.15	335	eP	39	30.50	-0.1
	0.7s	0.80nm			4.4mb			0.9s	37.19nm			4.7mb		SVW	65.72	330	eP	39	47.80	0.4
WRA	121.21	209	PKP	51	40.00	-1.4	NAV	20.75	11	P	33	44.00	-0.7	IMA	65.83	335	eP	39	48.90	0.8
	0.7s	2.20nm					TUL	21.00	336	eP	33	50.00	2.8X		1.1s	4.80nm			4.5mb	
QUE	145.22	84	ePKP	52	26.10	0.0		1.0s	46.10nm			4.8mb		TTA	66.20	332	eP	39	49.70	-0.7
GBA	146.01	118	PKP	52	28.10	0.6	Z	19s	0.36um			3.8Msz		EKA	71.95	37	Pd	40	38.00	12.1X
POO	146.18	107	iPKPc	52	28.30	0.5				eS	37	27.20			1.0s	7.60nm				
HYB	149.22	114	ePKP	52	37.30	4.6X	MEO	21.28	329	iPc	33	50.50	0.4	GUD	72.74	52	eP	40	30.00	-1.1
	1.0s	40.00nm					CVL	21.89	15	P	33	55.60	-0.5	MAL	73.10	56	iPc	40	35.00	2.0
IPM	150.58	166	ePKPd	52	39.90	5.1X	NA2	22.21	16	P	33	59.50	0.2	NB2	78.59	30	P	41	03.40	-0.3
	1.0s	44.30nm					CBN	22.39	17	eP	34	02.00	0.9		1.1s	9.60nm			4.7mb	
	S.D. = 1.1	on	47 of	52	obs.					e	38	02.00		TIC	79.06	86	P	41	07.60	0.5
----------							CLE	24.73	7	iP	34	25.00	1.2	LIC	79.16	87	P	41	08.30	0.7
? JAN 29, 1991 05h 17m 52.56± 2.19s							LVNJ	25.57	19	P	34	22.40	-9.3X	KIC	79.40	87	P	41	09.60	0.7
4.505 N ±31.1km 76.248 W ±34.8km							PNJ	25.85	20	iP	34	37.10	2.8X		1.1s	22.00nm			5.0mb	
DEPTH = 110.0km (geophysicist)										S	39	31.70		CLL	82.19	39	e(P)	41	22.00	-0.9
COLOMBIA						(103)	ALQ	25.91	318	eP	34	35.20	0.0	SOD	82.71	21	eP	41	27.00	1.7
MD 2.7 (UVC).								1.0s	19.25nm			4.6mb					e	41	41.00	48km
							TBR	26.04	20	P	34	37.00	0.9	BRG	82.89	39	eP	41	40.40	13.8X
HOBC	0.19	143	eP	18	09.32	-0.2	WVLY	26.16	12	P	34	37.60	0.4	KHC	83.20	41	eP	41	29.00	0.7
CLMC	0.69	207	eP	18	12.23	0.9	GOL	28.51	327	P	34	59.00	0.1				e	41	43.20	49km
			eS	18	26.60		RSNY	29.07	16	P	35	03.10	-0.5	KSP	84.31	39	eP	41	34.00	0.2
HOOC	1.10	201	eP	18	15.64	0.2		1.1s	37.27nm			5.0mb					e	41	48.70	51km
			eS	18	32.90		GAC	29.91	14	eP	35	11.00	0.0	NUR	84.96	28	eP	41	50.00	13.2X
ANCC	1.16	212	eP	18	15.01	-0.8				pP	35	22.50	43km		0.8s	17.60nm				
DIAC	1.21	178	eP	18	16.39	-0.1	GLA	30.89	307	P	35	25.50	5.6X	KAF	84.97	26	eP	41	37.00	0.2
			eS	18	34.20		GLA	30.89	307	eP	35	21.00	1.1	GBA	145.33	30	PKPc	48	39.60	-1.1
S.D. = 0.9	on	5 of	5	obs.			RSSD	31.30	334	P	35	23.50	-0.1		0.9s	10.30nm				
----------							TPC	32.25	308	eP	35	34.00	2.2	BDT	145.76	352	ePKP	48	42.60	1.2
JAN 29, 1991 05h 29m 05.15± 0.29s							DAU	32.30	322	P	35	21.20	-11.3X	S.D. = 1.1		on	76 of	107	obs.	
16.917 N ± 4.8km 85.542 W ± 4.3km							PLM	32.57	306	eP	35	37.00	2.2	----------						
DEPTH = 43.6km (11 depth phases)							BW06	32.91	327	P	35	36.20	-1.5	JAN 29, 1991 07h 11m 36.99± 1.19s						
4.8mb (12 obs.) 4.5Msz (3 obs.)							PEC	33.01	307	P	35	40.00	1.6	5.540 S ± 5.7km 151.772 E ± 8.0km						
CARIBBEAN SEA						(94)	GSC	33.31	309	eP	35	43.00	1.9	DEPTH = 57.2 ± 10.6 km						
Ms 5.0 (BRK).							SBB	33.83	308	eP	35	47.00	1.4	5.0mb (11 obs.) 4.4Msz (1 obs.)						
CENTROID, MOMENT TENSOR						(HRV)	CLC	34.12	310	eP	35	48.00	-0.1	NEW BRITAIN REGION						(192)
Data Used: GDSN							ISA	34.70	309	eP	35	54.00	0.9							
L.P.B.: 15S, 30C							ARE	35.94	157	eP	36	14.00	10.0X	RAB	1.40	16	iPc+	12	00.00	-0.5
Centroid Location:							FRI	36.15	310	eP	36	05.40	0.1	YYYY	5.82	263	eP	13	11.00	8.1X
Origin Time 05:29: 4.4 0.5										e	36	17.20	43km	PMG	5.98	230	eP	13	06.00	1.0
Lat 17.18N 0.05 Lon 85.66W 0.05							LRM	36.52	328	eP	36	09.00	0.4	CTA	15.42	200	iPd	15	17.20	4.6X
Dep 33.0 FIX Half-duration 1.7							LLA	36.91	309	eP	36	11.90	0.2		0.9s	20.17nm			4.3mb	
Moment Tensor; Scale 10**16 Nm							CMB	37.08	312	eP	36	13.90	0.8	QIS	19.04	217	eP	15	57.00	-0.4
Mrr= 1.37 0.40 Mtt=-6.71 0.41										e	36	24.40	36km	GUA	20.14	340	eP	16	10.20	1.0
Mff= 5.34 0.54 Mrt= 0.10 0.78							ZOBO	37.18	152	P	36	24.80	10.1X		0.8s	197.01nm			5.5mb	
Mrf=-1.69 1.03 Mtf= 9.74 0.51							Z	24s	0.72um			4.4MszX		PJC	20.20	340	eP	16	10.70	0.9
Principal Axes:										S	52	20.00		RMO	21.03	188	eP	16	17.00	-1.2
T Val= 10.99 Plg= 8 Azm=119							LPB	37.42	152	P	36	27.00	10.4X	DZM	21.71	141	iPd	16	23.70	-1.5
N 1.22 81 324							Z	18s	1.37um			4.8Msz		BRS	21.75	178	iPc	16	25.00	-0.5
P -12.21 4 209										LR	47	24.00		KNA	24.75	244	eP	16	55.60	0.8
Best Double Couple:Mo=1.2*10**17							MHC	37.71	310	ePc	36	21.70	3.2X	ASPA	24.92	222	iPd	16	57.40	1.0
NP1:Strike=254 Dip=81 Slip= 3										i	36	32.60	39km		0.8s	62.00nm			5.2mb	
NP2: 164 87 171							CNCB	37.72	152	P	36	25.00	5.8X	Z	23s	0.40um			3.9MszX	
							BKS	38.35	310	eP	36	25.60	1.8				eS	21	25.10	
SOG2	6.20	250	eP	30	04.00	-32.8X		0.7s	25.00nm			5.2mb		CMS	26.41	191	eP	17	10.00	-0.1
TPX	6.77	254	(P)	30	43.30	-1.2	Z	20s	1.00um			4.6Msz		WARB	31.59	227	eP	17	57.00	0.4
SCX	6.79	270	iP	30	43.00	-1.9	N	20s	1.90um					FORR	33.60	219	iPc	18	10.90	-3.0X
			(S)	31	55.00		E	20s	1.70um						0.5s	36.00nm			5.5mb	
DVD	8.95	160	(P)	31	33.10	18.2X				e	36	37.90	46km	MBL	34.63	240	eP	18	25.40	2.4
UPA	9.82	143	iPc	31	23.70	-3.1X				eLQ	50	56.00			0.5s	6.00nm			4.8mb	
1.0s	24.00nm				5.3mb					eLR	53	02.80		MRWA	41.19	231	eP	19	21.50	3.7X
		i	39	09.00			MIN	38.93	314	e(P)	36	29.40	0.6	XAN	56.46	317	P	21	14.60	-0.9
OXX	10.70	273	iP	31	36.60	-2.5				e	36	40.90	42km	TIY	56.49	323	eP	21	14.40	-1.3
LVVM	10.73	287	iP	31	32.20	-7.1X	SES	39.18	334	eP	36	30.00	-0.5	Z	16s	0.60um			4.8MszX	
IISM	11.45	282	iP	31	45.20	-3.8X	WDC	39.67	314	e(P)	36	38.70	4.0X	CHG	57.39	296	eP	21	22.00	-0.3
IIT	12.33	282	eP	32	00.30	-0.8	FFC	39.81	345	eP	36	34.00	-1.7	CHTO	57.39	296	eP	21	22.00	-0.3
PPM	12.63	282	iP	32	04.30	-1.1		1.0s	10.00nm			4.6mb			1.1s	8.24nm			4.7mb	
III	13.35	278	iP	32	11.80	-2.8X	SCH	40.50	17	eP	36	41.00	-0.3	CD2	58.45	311	P	21	29.40	-0.2
CRX	13.66	283	(P)	32	17.30	-1.5	NEW	40.53	327	P	36	41.70	0.0	LZH	61.05	317	eP	21	45.00	-2.5
HOBC	15.52	142	eP	32	41.73	-1.2	SIV	40.64	142	P	36	42.20	-0.7		2.0s	36.00nm			5.2mb	
CLMC	15.67	145	eP	32	45.29	0.5	DPW	40.85	326	P	36	45.50	1.1	Z	20s	0.29um			4.4Msz	
ANCC	15.81	146	eP	32	50.47	4.0X	LON	42.21	323	P	36	55.20	-0.3	GTA	65.51	318	P	22	17.00	0.2
BUGC	15.83	144	eP	32	46.69	-0.2	EDM	42.25	335	eP	36	51.50	-4.3X		1.0s	10.00nm			4.8mb	
HOOC	15.97	146	eP	32	53.17	4.3X	PNT	42.48	327	eP	37	09.00	11.4X	LSA	67.82	305	P	22	31.00	-1.0
SALC	16.36	147	eP	32	58.17	4.6X	FRB	48.23	10	eP	37	42.00	-1.2	GUN	71.63	302	P	22	54.90	-0.4
DIAC	16.36	145	eP	32	54.17	0.6	YKA	49.86	343	eP	37	58.50	2.7X	PKI	71.93	301	P	22	56.00	-1.1
SDV	16.57	117	eP	32	53.30	-3.0X		0.6s	3.40nm			4.6mb		KKN	72.10	301	P	22	56.80	-1.1
HBF	16.62	15	P	32	51.70	-4.8X	SOB1	51.21	117	eP	38	08.50	1.7	DMN	72.20	301	P	22	58.40	-0.2
TOV	16.88	113	eP	32	57.50	-2.5				e	38	19.80	39km	GKN	72.71	301	P	23	00.80	-0.6
PRM	17.33	9	P	33	04.00	-1.5				e	38	21.60		WMO	75.59	318	iPd	23	18.00	0.3
JSC	17.71	12	P	33	06.00	-4.2X	PDCR	54.41	120	(P)	38	28.00	-2.5X	HYB	75.77	289	eP	23	18.50	-0.6

GBA	76.18	285	P	23	21.40	0.1
SVW	77.89	23	eP	23	31.80	1.7
TTA	78.83	22	eP	23	36.80	1.6
PMR	80.78	25	eP	23	45.40	-0.1
IMA	81.49	20	eP	23	50.80	1.4
FBA	82.95	22	eP	23	56.50	-0.3
INK	89.51	21	eP	24	29.00	0.1
PNT	93.25	41	eP	24	48.00	1.4
	0.7s		8.00nm		5.3mb	
MBC	95.07	14	eP	24	54.50	0.1
	0.5s		4.00nm		5.1mb	
YKA	96.55	28	eP	25	00.60	-0.8
	0.7s		1.50nm		4.6mb	
SES	98.82	40	eP	25	12.00	0.1
BCAO	133.41	271	iPKPc	30	50.00	0.4
	0.7s		6.00nm			
CNCB	134.86	120	PKP	30	54.00	1.1
LPB	134.88	120	PKP	30	47.00	-5.7X
ZOBO	134.97	119	PKP	30	53.80	0.7
SIV	141.08	124	PKP	31	01.40	-2.3
AVE	146.27	328	iPKPc	31	13.80	1.7
TIO	147.97	325	iPKP	31	18.40	3.3X
BAO	151.26	137	ePKPc	31	28.50	8.0X
KUK	152.28	273	ePKP	31	29.00	7.1X
KIC	156.63	273	PKP	31	38.00	10.2X
	S.D. = 1.1		on 44 of 53 obs.			

& JAN 29, 1991 08h 27m 23.51s
61.305 N 151.210 W
DEPTH = 63.0km
SOUTHERN ALASKA (2)
<AEIC>.

SUA	0.28	54	iP	27	33.72	-0.3
			iS	27	42.65	
SPU	0.43	254	eP	27	34.72	-0.5
			eS	27	43.80	
CRP	0.46	266	iP	27	35.33	-0.3
CKL	0.56	259	iP	27	36.07	-0.6
NKA	0.56	181	iP	27	37.61	1.1
BGL	0.57	266	iP	27	36.32	-0.5
SKT	0.69	347	iP	27	37.34	-0.8
			eS	27	48.42	
PWA	0.73	61	iP	27	38.12	-0.3
			eS	27	49.56	
PMS	0.80	94	iP	27	38.87	-0.5
SLKM	0.93	148	iP	27	39.88	-1.2
			eS	27	54.12	
RDT	0.94	219	iP	27	40.31	-0.9
			iS	27	53.95	
PLRM	1.04	73	iP	27	41.56	-0.9
			eS	27	55.44	
PMR	1.04	73	iPc	27	42.00	-0.4
REF	1.10	222	iP	27	42.70	-0.7
			eS	27	58.38	
RDN	1.10	224	iP	27	42.48	-0.9
NCT	1.12	229	iP	27	43.04	-0.6
RS2	1.13	223	iP	27	43.24	-0.7
RSO	1.13	222	iP	27	43.21	-0.7
			eS	27	58.63	
CUT	1.19	22	iP	27	43.68	-0.8
GHO	1.19	66	iP	27	43.79	-0.8
			eS	27	59.98	
NNL	1.27	182	iP	27	45.94	0.4
KNK	1.33	84	eP	27	45.45	-1.0
SEW	1.48	144	eP	27	46.71	-1.7
BRLK	1.55	174	eP	27	48.30	-1.2
CNPM	1.79	180	eP	27	51.56	-1.1
			eS	28	13.21	
HUR	1.83	23	iP	27	53.55	0.2
			eS	28	16.03	
KNIM	1.95	118	eP	27	51.77	-3.2
GLI	2.04	100	eP	27	53.34	-2.9
			eS	28	18.57	
SVW	2.14	267	iPc	27	56.70	-1.0
MTU	2.20	125	eP	27	55.57	-2.8
AUH	2.24	211	eP	27	58.62	-0.4
AUI	2.26	210	eP	27	58.72	-0.6
VZW	2.27	94	eP	27	57.32	-2.1
VLZ	2.37	92	eP	27	58.38	-2.3
RND	2.38	26	eP	28	00.29	-0.7
TOA	2.53	69	iPc	28	02.70	-0.4
KLU	2.55	83	eP	28	01.00	-2.4
MCNL	2.64	218	eP	28	03.12	-1.4
MCK	2.66	22	eP	28	04.97	0.2
SYI	2.77	193	eP	28	04.94	-1.4
TTA	2.78	308	iPd	28	05.50	-1.2
TZL	2.86	72	eP	28	05.70	-1.9
SDG	2.95	63	eP	28	07.35	-1.6
PAX	3.17	56	eP	28	11.01	-1.2
GLB	3.56	85	eP	28	15.35	-2.3
HDA	3.67	30	eP	28	17.54	-1.6
CCB	3.70	23	eP	28	17.40	-2.0
FBA	3.93	22	eP	28	22.10	-0.6
GLM	4.08	23	eP	28	23.81	-1.1
TGL	4.11	94	eP	28	23.44	-2.0
BALM	4.30	90	eP	28	24.44	-3.6
IMA	4.91	348	ePd	28	34.40	-2.2
	52 obs. associated					

JAN 29, 1991 08h 31m 14.56± 0.52s
14.129 N ± 8.5km 144.862 E ± 8.4km
DEPTH = 169.6 ± 5.3 km
4.3mb (4 obs.)
MARIANA ISLANDS (216)

PJG	0.54	180	iP	31	38.60	0.1
GUA	0.59	175	iPc	31	38.70	-0.1
			eS	31	55.00	
MAT	23.10	346	eP	36	07.00	0.7
	0.9s		6.72nm		4.2mb	
ASPA	39.06	196	eP	38	26.40	-0.3
	0.5s		5.90nm		4.5mb	
DZM	41.74	149	iPc	38	49.00	0.3
MBL	42.82	216	eP	38	57.00	-0.4
GUN	56.26	294	P	40	40.40	0.1
PKI	56.68	294	P	40	43.60	0.5
GKN	57.36	294	P	40	48.00	0.3
INK	73.87	23	eP	42	31.00	-1.0
MBC	77.75	14	eP	42	52.00	-1.7
YKA	82.39	27	eP	43	17.40	-1.1
	0.6s		2.10nm		4.1mb	
WDC	82.90	50	ePc	43	22.00	0.4
MIN	83.64	50	eP	43	25.20	-0.4
PCC	83.69	53	ePc	43	24.70	-0.9
BRK	83.70	53	eP	43	26.20	0.5
BKS	83.72	53	eP	43	26.60	0.8
	0.9s		29.00nm		5.1mb	
MHC	84.30	53	ePc	43	28.70	-0.2
PRS	84.74	54	ePc	43	32.70	1.7
LLA	85.01	54	e(P)	43	31.60	-0.7
CMB	85.10	52	ePc	43	33.20	0.4
PRI	85.34	54	ePc	43	35.00	0.9
FRI	85.88	53	ePc	43	36.70	0.1
CLC	87.83	54	eP	43	46.00	-0.1
SBB	87.96	55	eP	43	47.00	0.2
GSC	88.59	54	eP	43	50.00	0.2
TPC	89.53	55	eP	43	54.00	-0.2
KIC	143.61	302	PKP	50	29.20	-2.5X
TIC	143.68	303	PKP	50	29.20	-2.6X
LIC	143.92	302	PKPc	50	30.20	-2.0X
ZOBO	148.12	98	PKP	50	42.80	3.0X
			e	51	27.00	
LPB	148.14	99	PKP	50	42.00	2.4X
CNCB	148.26	99	PKP	50	42.00	2.0X
	S.D. = 0.8		on 27 of 33 obs.			

• JAN 29, 1991 08h 35m 25.85± 2.40s
33.498 S ±10.8km 72.248 W ±19.1km
DEPTH = 36.4 ± 14.9 km
4.5mb (2 obs.)
OFF COAST OF CENTRAL CHILE (134)
Felt (IV) at San Antonio.

LCCH	0.57	88	iP	35	36.00	-1.4
IHA	0.69	47	iPc	35	38.70	-0.5
			iS	35	48.30	
LNV	0.83	123	iPd	35	40.60	-0.6
ROCH	1.16	64	iPd	35	45.60	-0.5
SAN	1.33	89	iP	35	48.50	0.3
			iS	36	03.50	
PEL	1.36	75	iPd	35	49.00	0.3
JACH	1.61	60	iP	35	53.00	0.5
			iS	36	13.50	
FCH	1.65	85	iPc	35	53.70	0.5
MDZ	2.91	79	eP	36	17.10	6.1X
			i	36	25.70	
			iS	36	52.60	
RTCV	3.53	63	e(P)	36	23.20	3.5X
RTLL	3.86	57	iPc	36	25.80	1.5
RTRS	4.08	36	ePc	36	28.90	1.5
ANT	9.89	10	eP	38	03.00	14.4X
ARE	16.98	2	eP	39	21.00	-1.5
CNCB	17.06	14	P	39	24.00	0.2
LPB	17.30	13	P	39	27.00	0.3
	1.0s		60.00nm		4.7mb	
	Z 16s		1.68um		4.1MszX	
			LR	45	40.00	
ZOBO	17.55	13	Pd	39	29.20	-0.8
	1.0s		27.50nm		4.3mb	
	Z 16s		1.07um		4.6Msz	
			LR	45	12.00	
SIV	20.14	33	P	39	56.80	-3.0X
NNA	21.82	348	iP	40	27.50	10.6X
	1.2s		35.94nm			
BMA	26.94	74	eP	41	04.70	-1.2
BAO	28.22	57	ePc	41	06.80	-10.8X
PDCR	36.70	63	eP	42	29.80	-1.6
			e	42	44.40	
SOB1	37.64	57	iPd	42	40.40	1.1
KIC	75.09	72	P	47	05.80	-0.4
GBA	146.07	118	PKP	55	04.50	1.3
POO	146.26	108	iPKPc	55	04.50	1.0
GKN	159.41	99	PKP	55	00.00	-21.9X
	S.D. = 1.1		on 20 of 27 obs.			

& JAN 29, 1991 08h 37m 12.15s
60.721 N 152.338 W
DEPTH = 96.9km
SOUTHERN ALASKA (2)
<AEIC>.

RDT	0.15	193	iP	37	25.44	0.9
			eS	37	35.69	
REF	0.29	218	iP	37	26.19	-0.6
RDN	0.30	225	iP	37	26.05	-0.7
RS2	0.33	219	eP	37	26.31	-0.7
RSO	0.33	218	eP	37	26.34	-0.7
NCT	0.33	242	iP	37	26.34	-0.5
			eS	37	37.24	
CKL	0.48	0	iP	37	27.18	-0.6
			eS	37	38.87	
SPU	0.48	17	iP	37	26.98	-0.8
			eS	37	38.78	
NKA	0.54	87	eP	37	29.21	1.1
BGL	0.55	357	iP	37	27.85	-0.5
			eS	37	39.77	
CRP	0.56	9	iP	37	27.91	-0.6
NNL	0.86	142	iP	37	31.46	0.4
SLKM	1.07	101	iP	37	32.73	-0.7
SUA	1.08	45	iP	37	33.21	-0.4
			eS	37	49.61	
BRLK	1.20	142	eP	37	34.54	-0.5
			eS	37	52.17	
PDB	1.32	225	iP	37	35.68	-0.6
			iS	37	53.60	
CNPM	1.32	155	eP	37	35.88	-0.5
			eS	37	54.17	
SKT	1.32	17	iP	37	35.67	-0.8
PMS	1.45	68	iP	37	37.87	-0.2
			eS	37	56.95	
PWA	1.51	51	eP	37	38.69	-0.1
			eS	37	58.79	
SEW	1.56	112	iP	37	38.50	-0.9
PLRM	1.78	59	eP	37	41.39	-0.8
MCNL	1.84	214	eP	37	42.47	-0.5
CUT	1.96	29	eP	37	43.93	-0.6
GHO	1.96	56	iP	37	43.42	-1.2
KNK	2.01	68	iP	37	43.93	-1.4
			eS	38	08.66	
SYI	2.12	181	eP	37	46.51	-0.1
KNIM	2.31	97	iP	37	46.53	-2.7
MTU	2.44	105	iP	37	49.93	-1.1
GLI	2.58	84	eP	37	49.76	-3.1
VZW	2.85	81	eP	37	54.31	-2.3
VLZ	2.96	79	eP	37	55.75	-2.3
KLU	3.21	73	iP	37	59.30	-2.3
TZL	3.58	65	eP	38	05.24	-1.3
SDG	3.72	58	eP	38	08.37	-0.1
PAX	3.96	52	eP	38	10.77	-1.1
	36 obs. associated					

• JAN 29, 1991 09h 48m 15.98± 1.23s
39.400 S ± 8.7km 174.870 E ±16.9km
DEPTH = 33.0km (normal)
NORTH ISLAND, NEW ZEALAND (159)
ML 3.0 (WEL).

CNZ	0.56	69	Pc	48	28.50	0.9
NGZ	0.61	69	P	48	28.70	0.4
MNG	1.30	159	P	48	37.90	-0.1

29d 09h

		S	48 53.80			
KIW	1.46	179 P	48 41.50	1.2		
WLZ	1.66	20 P	48 42.20	-0.9		
CAW	1.71	175 P	48 44.00	0.1		
MTW	1.82	165 P	48 44.10	-1.4		
MRW	1.83	184 P	48 46.10	0.4		
		S	49 08.10			
TCW	1.87	194 P	48 47.40	1.2		
WDW	1.87	177 P	48 45.70	-0.5		
MOW	2.04	172 P	48 47.40	-1.3		
S.D. = 1.1 on 11 of 11 obs.						

% JAN 29, 1991 10h 08m 28.08± 0.82s
44.214 N ± 9.0km 7.432 E ± 5.9km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.1 (GEN).

ENR	0.01	326 P	08 29.38	-0.7		
		S	08 30.71			
STV	0.08	291 P	08 30.40	-0.3		
		S	08 32.45			
DOI	0.32	335 P	08 35.70	1.0		
		eSg	08 40.40			
ROB	0.33	76 P	08 34.81	0.0		
		S	08 40.35			
PZZ	0.38	321 P	08 35.43	-0.4		
		S	08 41.07			
IMI	0.45	133 P	08 37.78	0.5		
		S	08 45.27			
FIN	0.56	90 P	08 38.81	-0.6		
		S	08 47.01			
PCP	0.86	67 P	08 44.86	0.1		
		S	08 56.34			
S.D. = 0.7 on 8 of 8 obs.						

JAN 29, 1991 10h 12m 21.93± 0.97s
33.361 S ± 6.3km 72.050 W ± 7.7km
DEPTH = 43.7 ± 7.5 km
4.9mb (12 obs.)
OFF COAST OF CENTRAL CHILE (134)
Felt (III) at Valparaiso, Quillota and San Antonio and (II) at Santiago.

LCCH	0.42	106 iP	12 39.90	8.1X		
IHA	0.48	46 iPc	12 32.40	-0.2		
		iS	12 42.50			
LNV	0.80	138 iPd	12 34.70	-2.1		
ROCH	0.95	66 iPd	12 40.00	0.7		
TACH	0.97	108 iPd	12 38.90	-0.5		
PEL	1.16	80 iPd	12 43.40	1.3		
SAN	1.16	95 iPd	12 24.20	-17.9X		
JACH	1.40	61 iPc	12 46.20	0.7		
		iS	13 06.50			
FCH	1.47	89 iPc	12 48.50	1.8		
MDZ	2.73	81 eP	13 08.90	4.6X		
		i	13 20.40			
		iS	13 46.10			
ANT	9.73	9 eP	14 28.50	-13.7X		
ARE	16.83	2 eP	16 17.00	0.6		
CNCB	16.88	14 P	16 17.10	-0.2		
LPB	17.13	13 eP	16 18.00	-2.2		
	1.1s	227.85nm		5.2mb		
	Z 16s	3.37um		4.6MszX		
		i	16 20.50			
		LR	22 18.00			
ZOBO	17.38	13 iPc	16 23.00	-0.5		
	Z 18s	2.16um				
		S	19 48.00			
		LR	22 04.00			
SIV	19.94	32 iPc	16 51.00	-2.1		
NNA	21.72	347 iP	17 11.80	0.5		
	1.1s	56.96nm		4.9mb		
BMA	26.74	74 eP	17 59.20	-0.2		
		e	18 05.60			
		e	18 15.80			
JFO	27.89	73 eP	18 11.60	1.7		
BAO	28.01	57 ePc	18 09.00	-2.0		
SALC	36.40	352 eP	19 24.81	0.5		
PDCR	36.49	63 eP	19 23.90	-1.0		
DIAC	36.66	353 eP	19 27.87	1.3		
HOOC	36.88	352 eP	19 28.53	0.0		
ANCC	36.96	352 eP	19 29.42	0.6		
CLMC	37.28	353 eP	19 32.39	0.6		
SO81	37.43	57 ePc	19 34.00	1.2		
		e	19 46.60			
		e	21 53.40			
PRM	67.78	351 P	23 16.00	-1.2		
JSC	67.84	352 P	23 16.30	-1.2		
TKL	69.53	350 P	23 26.30	-1.7		
RSCP	69.76	348 P	23 28.40	-1.0		
ELC	72.08	346 P	23 42.00	-1.4		
TUL	72.40	340 eP	23 44.10	-1.2		
FVM	73.01	345 P	23 47.50	-1.4		
LIC	74.58	72 Pc	23 58.20	-0.3		
TIC	74.84	71 Pc	23 59.74	-0.2		
KIC	74.89	72 Pc	24 00.06	-0.2		
	1.0s	31.50nm		5.2mb		
ALQ	75.21	331 eP	24 01.80	-0.1		
	1.2s	8.59nm		4.6mb		
WVLY	75.70	355 P	24 04.00	-0.3		
GLA	77.36	324 eP	24 14.00	0.2		
RSNY	77.57	358 P	24 15.00	0.4		
	0.7s	14.99nm		5.1mb		
MIM	78.28	2 P	24 19.30	0.8		
KUK	78.29	75 eP	24 19.20	-0.1		
GAC	78.75	358 eP	24 21.50	0.5		
		pP	24 31.00	30kmX		
TPC	78.81	324 eP	24 23.00	1.2		
GLD	78.96	335 P	24 23.60	1.0		
GOL	78.97	334 P	24 22.70	-0.1		
	1.0s	7.50nm		4.6mb		
CBM	80.00	3 P	24 28.20	0.4		
GSC	80.14	324 eP	24 30.00	1.0		
SBB	80.16	323 eP	24 30.00	1.0		
MSU	80.64	329 P	24 32.30	0.6		
CLC	80.94	324 eP	24 34.00	0.9		
ISA	81.25	323 eP	24 35.00	0.2		
RSSD	82.44	337 P	24 41.00	0.0		
TNP	82.56	326 P	24 42.60	0.9		
	1.0s	9.58nm		4.8mb		
PRI	82.73	322 e(P)	24 44.60	2.1		
BW06	83.20	333 P	24 44.80	-0.1		
	0.9s	4.59nm		4.5mb		
LLA	83.24	322 eP	24 46.40	1.4		
CMB	84.06	324 eP	24 49.00	-0.2		
SLR	84.20	117 iPc	24 50.00	-0.4		
ORV	85.79	324 eP	24 58.60	0.9		
		e	25 09.10			
MIN	86.44	324 eP	25 00.80	-0.3		
LRM	86.88	333 eP	25 04.00	0.8		
WDC	87.08	324 iPc	25 03.40	-0.6		
LBFM	87.35	325 P	25 06.30	0.7		
SCH	87.93	3 eP	25 08.00	0.2		
SES	90.24	336 eP	25 18.00	-0.8		
KRI	90.26	110 iPd	25 26.00	6.1X		
NEW	90.70	332 P	25 18.40	-2.6		
	0.9s	5.48nm		4.9mb		
DPW	90.82	331 P	25 22.00	0.4		
FFC	91.44	343 eP	25 23.00	-1.2		
	0.7s	5.00nm		5.0mb		
LON	91.47	328 P	25 24.20	-0.4		
BCAO	92.90	87 iPc	25 32.30	0.4		
	0.6s	8.00nm		5.3mb		
YKA	101.45	341 ePdiff	26 08.30	-1.3		
	0.6s	1.20nm		4.7mb		
ASPA	118.13	207 iPKPd	31 04.50	-1.7		
	0.9s	4.00nm				
WRA	121.31	209 PKP	31 10.00	-2.3X		
	0.9s	4.50nm				
NUR	121.60	35 ePKP	31 11.00	-0.5		
KAF	122.70	34 iPKP	31 13.00	-0.6		
	0.5s	3.50nm				
SOD	123.61	27 ePKP	31 15.00	-0.3		
KEV	123.98	24 ePKP	31 18.00	2.1		
OUE	145.16	84 ePKP	31 56.80	0.1		
PPI	145.62	167 e(PKP)	31 57.50	-0.2		
GBA	145.99	118 PKP	31 57.70	-0.5		
POO	146.14	107 iPKPc	31 58.70	0.2		
HYB	149.20	114 iPKPc	32 07.40	4.0X		
	0.8s	61.54nm				
IPM	150.65	166 ePKPc	32 10.30	4.7X		
	0.9s	78.40nm				
GKN	159.27	99 PKP	32 17.10	0.2		
DMN	159.51	100 PKP	32 18.00	0.7		
KKN	159.72	100 PKP	32 17.80	0.4		
PKI	159.75	101 PKP	32 19.20	1.6		
GUN	160.26	100 PKP	32 18.50	0.3		
WMQ	161.08	51 PKP	32 19.40	1.3		
GTA	171.09	45 ePKP	32 27.00	0.8		
TIA	171.94	293 ePKP	32 25.80	-0.7		
TIY	174.32	321 ePKP	32 26.00	-1.4		
S.D. = 1.0 on 87 of 95 obs.						

% JAN 29, 1991 12h 37m 07.14± 2.44s
42.718 N ±11.2km 19.219 E ±17.9km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.6 (TTG).

NKY	0.19	300 iPgd	37 11.67	0.3		
		iSg	37 14.97			
TTG	0.29	174 iPgc	37 13.10	-0.1		
		iSg	37 17.67			
BDV	0.52	214 iPgd	37 17.88	0.2		
		iSg	37 26.02			
BRY	0.53	290 iPgd	37 17.60	-0.3		
		iSg	37 26.28			
HCY	0.60	243 iPgd	37 19.12	-0.1		
		iSg	37 28.80			
S.D. = 0.3 on 5 of 5 obs.						

& JAN 29, 1991 12h 41m 42.69s
59.810 N 152.743 W
DEPTH = 87.5km
SOUTHERN ALASKA (2)
<AEIC>.

AUI	0.59	216 eP	41 57.68	-0.5		
		eS	42 08.01			
RSO	0.65	360 eP	41 58.19	-0.8		
		eS	42 11.56			
RS2	0.66	359 iP	41 58.31	-0.7		
		eS	42 11.49			
REF	0.68	2 iP	41 58.56	-0.7		
		eS	42 11.17			
RDN	0.71	359 eP	41 58.73	-0.7		
		eS	42 11.70			
PDB	0.73	269 iP	41 58.72	-0.8		
		iS	42 11.23			
NCT	0.76	353 eP	41 59.14	-0.8		
		eS	42 11.88			
NNL	0.76	72 iP	42 00.23	0.3		
RDT	0.78	12 eP	41 59.17	-1.0		
		eS	42 12.34			
CNPM	0.82	110 iP	41 59.77	-0.7		
		eS	42 13.55			
BRLK	0.94	92 eP	42 01.40	-0.5		
		eS	42 15.05			
MCNL	1.03	233 eP	42 01.74	-1.1		
		eS	42 16.39			
NKA	1.20	38 iP	42 05.95	1.1		
SYI	1.22	171 iP	42 04.51	-0.6		
		eS	42 20.87			
CKL	1.41	8 eP	42 06.87	-0.8		
		eS	42 25.57			
SPU	1.42	14 iP	42 06.92	-0.8		
		eS	42 25.75			
SLKM	1.44	60 eP	42 07.40	-0.6		
		eS	42 25.51			
BGL	1.47	7 eP	42 07.84	-0.6		
CRP	1.49	11 eP	42 07.51	-1.3		
SEW	1.68	78 eP	42 09.64	-1.4		
SUA	1.93	30 eP	42 14.13	-0.4		
PMS	2.13	46 eP	42 16.28	-0.9		
SKT	2.26	15 eP	42 17.57	-1.3		
PWA	2.32	36 iP	42 18.92	-0.8		
KNIM	2.57	76 eP	42 20.42	-2.6		
MTU	2.57	84 iP	42 21.95	-1.2		
KNK	2.66	51 eP	42 22.19	-2.1		
GHO	2.72	42 iP	42 23.47	-1.7		
GLI	3.01	67 eP	42 26.10	-3.0		
VZW	3.31	65 eP	42 30.65	-2.7		
30 obs. associated						

• JAN 29, 1991 12h 42m 41.59± 1.12s
6.402 S ±11.3km 154.511 E ± 8.9km
DEPTH = 69.0 ± 13.3 km
5.0mb (6 obs.)
SOLOMON ISLANDS (193)

RAB	3.20	313 eP	43 30.00	-0.6		
		iS	44 24.00			
VSG	5.88	119 eP	44 09.00	0.8		
SVO	5.92	118 eP	44 08.00	-0.7		
HNR	6.17	120 eP	44 13.00	0.8		
PMG	7.88	247 eP	44 35.00	-0.8		
CTA	15.79	210 iPd	46 24.20	3.0		
	1.0s	40.00nm		4.5mb		
DZM	19.38	145 iPc	47 03.00	-1.9		

QIS	20.17	224	iPd	47	12.00	-1.1
RMQ	20.72	195	iPd	47	17.50	-1.2
	0.8s		47.00nm			4.9mb
GUN	74.40	301	P	54	15.10	0.3
	0.8s		46.00nm			5.5mb
PKI	74.71	301	P	54	16.80	0.3
KKN	74.88	301	P	54	17.50	0.2
	0.7s		20.00nm			5.2mb
DMN	74.98	301	P	54	18.80	0.8
GKN	75.48	301	P	54	20.80	0.1
	0.8s		38.00nm			5.4mb
YKA	96.04	28	eP	56	06.50	4.3X
	0.6s		0.50nm			4.2mb

S.D. = 1.4 on 14 of 15 obs.

& JAN 29, 1991 13h 37m 20.20s
63.112 N 150.438 W
DEPTH = 109.0km
CENTRAL ALASKA (1)
<AEIC>.

HUR	0.39	110	iP	37	36.30	-0.2
			eS	37	48.63	
CUT	0.71	174	iP	37	38.77	0.0
RND	0.78	67	iP	37	39.10	-0.4
			eS	37	53.22	
MCK	0.92	47	eP	37	40.55	-0.3
			eS	37	55.20	
BWN	1.15	22	eP	37	43.24	0.0
			eS	38	00.40	
SKT	1.24	204	iP	37	43.94	-0.4
			eS	38	01.70	
PWA	1.49	170	eP	37	46.96	-0.2
			iS	38	07.76	
GHO	1.52	152	iP	37	47.37	-0.3
			eS	38	08.58	
NEA	1.59	22	eP	37	47.71	-0.7
			eS	38	07.62	
PLRM	1.64	158	eP	37	48.21	-0.8
			eS	38	10.50	
PMR	1.64	158	ePd	37	48.80	-0.2
SUA	1.66	185	eP	37	49.38	-0.1
			eS	38	12.11	
PMS	1.92	167	eP	37	51.87	-0.8
			eS	38	15.94	
CCB	1.93	36	iP	37	51.98	-0.7
KNK	1.94	151	eP	37	52.03	-0.9
			eS	38	16.75	
RDS	2.00	29	iP	37	52.87	-0.7
			eS	38	16.86	
CRP	2.02	204	eP	37	54.76	0.7
HDA	2.02	48	eP	37	53.09	-0.8
			iS	38	17.08	
BGL	2.07	207	eP	37	54.58	0.0
SPU	2.08	202	eP	37	54.12	-0.6
MDM	2.09	27	iP	37	54.14	-0.7
CKL	2.12	206	eP	37	54.95	-0.3
FBA	2.14	32	ePd	37	55.30	-0.1
DDM	2.16	70	eP	37	56.19	0.4
TOA	2.22	115	ePc	37	56.50	0.0
PAX	2.27	91	eP	37	56.72	-0.5
GLM	2.31	34	iP	37	57.05	-0.7
SDG	2.32	102	eP	37	57.13	-0.7
NKA	2.41	189	eP	38	01.29	2.4
TTA	2.55	268	ePc	38	00.80	-0.1
TZL	2.56	113	eP	38	00.40	-0.5
SLKM	2.62	178	eP	38	01.29	-0.5
KLU	2.66	126	eP	38	00.77	-1.7
			eS	38	33.35	
RDT	2.71	201	eP	38	02.98	-0.1
GLI	2.74	143	eP	38	01.54	-1.9
VZW	2.75	137	eP	38	02.03	-1.6
VLZ	2.77	134	eP	38	01.82	-1.9
NCT	2.82	206	eP	38	04.36	-0.2
RDN	2.83	204	eP	38	04.21	-0.5
REF	2.84	203	eP	38	04.81	-0.2
RS2	2.88	204	iP	38	06.37	0.9
RSO	2.88	204	iP	38	05.87	0.4
SEW	3.06	171	eP	38	06.24	-1.4
KNIM	3.06	154	eP	38	05.27	-2.4
			eS	38	39.48	
NNL	3.11	188	eP	38	09.42	1.1
SVW	3.16	233	ePd	38	09.10	0.0
IMA	3.28	336	ePd	38	10.40	-0.4
BRLK	3.37	184	eP	38	10.89	-1.0
TMW	3.38	83	eP	38	10.40	-1.6
MTU	3.41	156	eP	38	10.32	-2.1
GLB	3.52	115	iP	38	12.49	-1.5
CNPM	3.62	186	iP	38	14.45	-0.9
PDB	3.79	210	eP	38	17.26	-0.4
TGL	4.30	120	eP	38	22.42	-2.3
BALM	4.34	115	eP	38	22.93	-2.3

55 obs. associated

JAN 29, 1991 14h 11m 02.61± 0.31s
4.195 S ± 6.1km 128.042 E ± 8.3km
DEPTH = 23.8km (3 depth phases)
5.3mb (12 obs.) 4.5Msz (2 obs.)
BANDA SEA (280)

MNI	6.45	330	eP	12	30.00	-8.6X
CGP	13.00	345	eP	14	13.80	5.2X
MBL	18.65	205	eP	15	21.80	0.7
PGP	18.94	338	eP	15	26.00	1.4
PMG	19.67	106	eP	15	32.00	-1.1
QIS	19.78	146	iPd	15	33.00	-1.2
	0.5s		30.00nm			4.9mb
BAG	21.76	340	eP	15	55.90	1.1
WARB	21.91	183	eP	15	57.00	0.9
CTA	23.76	133	iPc	16	15.00	0.8
	1.3s		244.23nm			5.6mb
			iS	20	36.00	
MEKA	24.08	201	eP	16	18.00	0.7
FORR	26.51	180	eP	16	39.00	-1.2
PPI	27.87	277	e(P)	16	50.20	-2.6
IPM	28.36	288	ePd	16	57.90	0.6
	1.0s		65.80nm			5.3mb
			e	17	04.90	25km
RMQ	29.74	140	eP	17	08.00	-1.5
CMS	31.89	150	iPd	17	28.50	0.1
ADE	32.18	163	iPc	17	31.50	0.6
	0.8s		44.78nm			5.4mb
NNT	32.70	301	eP	17	37.60	1.9
BRS	33.00	137	iPd	17	46.50	8.3X
NST	33.95	306	eP	17	47.20	0.7
COO	34.56	142	eP	17	52.00	0.3
BFD	35.42	160	eP	18	01.00	2.1
BDT	35.72	307	eP	18	02.00	0.4
	0.8s		51.90nm			5.5mb
CHG	36.66	310	ePc	18	10.30	0.7
	1.2s		71.48nm			5.4mb
GYA	36.84	327	iPc	18	12.40	1.3
TOO	36.86	157	eP	18	12.60	1.5
WHN	36.94	340	eP	18	13.50	1.8
			pP	18	21.50	27km
NJ2	37.09	347	eP	18	13.50	0.5
KMI	38.12	321	Pc	18	23.50	1.4
	1.5s		80.00nm			5.3mb
			sP	18	38.00	
DZM	41.22	119	iPd	18	46.00	-1.7
MAT	41.62	12	eP	18	49.00	-1.6
	1.0s		8.00nm			4.4mb
			(S)	25	30.00	
CD2	41.91	328	P	18	53.70	0.6
XAN	42.10	336	P	18	54.60	0.0
TIY	44.15	342	eP	19	10.10	-1.2
LZH	46.03	333	Pd	19	26.50	0.1
	1.8s		76.00nm			5.3mb
	Z 20s		0.44um			4.4Msz
			pP	19	40.00	50kmX
CN2	47.83	357	eP	19	41.60	1.3
LSA	48.84	316	P	19	47.60	-1.3
GTA	50.59	332	Pc	20	01.70	-0.1
	1.0s		10.00nm			4.7mb
	Z 20s		0.50um			4.5Msz
			pP	20	07.70	20km
			sP	20	13.80	
GUN	51.65	311	P	20	09.90	-0.4
PKI	51.84	310	P	20	10.80	-0.9
	1.1s		56.00nm			5.4mb
KKN	52.05	310	P	20	12.20	-0.9
DMN	52.09	310	P	20	13.00	-0.5
GKN	52.64	310	P	20	16.80	-0.8
GBA	53.24	290	P	20	21.50	-0.4
HYB	53.35	295	eP	20	21.00	-1.7
POO	57.95	295	eP	20	54.50	-1.4
NDI	58.74	307	eP	20	59.00	-2.3
WMQ	60.00	327	iPd	21	09.50	-0.3
QUE	67.60	305	eP	22	00.00	-0.1
INK	97.00	22	ePd	24	32.90	-0.4
YKA	106.09	25	ePdiff	25	18.50	4.5X
	0 6s		0.20nm			4.3mb
YKA	106.09	25	ePKP	29	09.70	-16.3X
	0.6s		0.30nm			
NNA	150.49	123	iPKP	30	54.70	5.3X
	1.1s		37.97nm			
CNCB	153.80	143	PKP	30	56.00	1.2
LPB	153.95	143	PKP	30	57.00	2.2
ZOBO	154.13	142	PKPc	30	55.20	-0.1
	1.0s		15.50nm			
SIV	158.01	156	PKP	30	58.40	-1.2

S.D. = 1.2 on 50 of 56 obs.

? JAN 29, 1991 14h 19m 11.38± 0.59s
15.351 N ±16.3km 61.238 W ±44.5km
DEPTH = 120.0km (geophysicist)
LEEWARD ISLANDS (92)

MGG	0.57	352	eP	19	30.34	0.4
FDF	0.62	172	iPd	19	30.69	0.3
			S	19	47.30	
CRM	0.67	152	iPd	19	30.50	-0.2
			S	19	46.80	
DOG	0.77	332	eP	19	31.65	0.1
			S	19	48.80	
PAG	0.80	328	eP	19	31.70	-0.2
			S	19	49.10	
BIM	0.84	169	eP	19	32.18	-0.1
			S	19	51.00	
SEG	1.08	346	ePc	19	34.26	-0.2
			S	19	53.00	

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

? JAN 29, 1991 14h 34m 02.56± 1.12s
39.140 N ± 9.9km 29.020 E ±12.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

DST	0.56	327	ePg	34	13.80	-0.1
ALT	0.85	95	iPg	34	19.00	-0.1
			eSg	34	29.00	
KHL	0.91	154	ePg	34	20.00	0.0
			iSg	34	31.00	
YLV	1.45	11	iPg	34	29.00	0.1

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

JAN 29, 1991 14h 57m 41.59± 0.48s
42.309 N ± 6.4km 15.583 E ± 4.0km
DEPTH = 14.6 ± 3.7 km
ADRIATIC SEA (382)
ML 3.2 (TTG).

DUI	1.06	233	Pd	58	00.60	-0.6
			eSg	58	14.60	
HVAR	1.08	36	iPg	58	02.30	0.9
			iSg	58	17.80	
SDI	1.45	246	Pc	58	06.70	-0.6
			eSg	58	25.90	
BAI	1.53	141	P	58	03.00	-5.3X
			eSg	58	23.00	
AQU	1.62	272	P	58	10.80	1.1
AZI	1.63	259	P	58	10.70	0.9
			eSn	58	31.90	
SGO	1.76	187	P	58	07.00	-4.7X
			eSg	58	28.70	
BRT	1.88	139	P	58	08.50	-4.9X
			eSg	58	31.60	
MNS	2.15	273	P	58	18.40	0.9
HCY	2.16	85	ePn	58	19.00	1.4
			eSn	58	51.50	
BRY	2.26	74	ePn	58	22.00	2.8X
ARV	2.28	302	P	58	20.80	1.6
			eSn	58	49.60	
ASS	2.28	290	P	58	21.00	1.6
BDV	2.41	90	ePn	58	21.50	0.4
			eSn	58	55.00	
LCI	2.66	137	P	58	23.80	-0.9
TDS	2.71	168	P	58	21.50	-3.9X
TTG	2.73	86	ePn	58	26.00	0.4
CRE	2.97	298	P	58	30.50	1.3
PLE	2.98	69	ePn	58	33.50	4.2X
			eSn	59	17.50	
RIY	3.16	344	e(Pn)	58	31.90	0.3
SFI	3.17	302	P	58	34.00	2.1
VBY	3.20	356	ePn	58	42.90	10.6X
			iSn	59	12.70	
IVA	3.24	79	ePn	58	34.00	1.1
CEY	3.53	347	e(Pn)	58	37.00	0.0
			e	58	50.50	
			eSn	59	22.00	

29d 14h

PTJ	3.60	4	ePn	58 37.80	-0.3	
			eSn	59 20.20		
TRI	3.64	340	eP	58 37.30	-1.3	
			i	59 21.30		
			i	59 37.50		
			i	59 47.00		
LJU	3.81	349	ePn	58 43.80	2.8X	
			eSn	59 27.00		
VOY	3.92	342	ePn	58 42.00	-0.5	
			eSn	59 29.40		
MME	4.03	299	P	58 45.40	1.0	
SKO	4.37	92	ePn	59 20.00	31.1X	
CTI	4.69	324	P	58 53.50	-0.1	
			eSn	59 47.00		
PGF	4.88	275	Pn	58 54.20	-2.1	
BOB	5.09	301	P	59 00.10	0.9	
			eSn	59 57.80		
MDI	5.47	311	P	59 03.40	-1.1	
			eSn	00 06.00		
SOTA	5.81	329	i(Pn)	59 10.50	1.1	
	0.3s		7.70nm		4.9mb X	
			iSn	00 04.00		
			i	00 13.70		
			i	00 18.00		
VAI	6.06	308	P	59 11.80	-0.9	
			eSn	00 19.40		
KHC	6.97	349	ePg	59 24.00	-1.6	
			eSg	00 41.00		
LPG	7.13	300	Pn	59 24.00	-4.2X	
			Sn	00 36.80		
LPL	7.15	300	Pn	59 24.10	-4.3X	
			Sn	00 37.00		
LBF	9.50	303	Pn	59 55.00	-5.8X	
			Sn	01 34.20		
LOR	9.70	305	Pn	59 57.40	-6.1X	
			Sn	01 38.50		

S.D. = 1.1 on 28 of 41 obs.

? JAN 29, 1991 15h 44m 30.48± 3.96s
39.220 N ±12.1km 20.108 E ±36.9km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
MD 4.0 (ATH).

VLS	1.11	160	ePn	44 51.50	0.2	
EVR	1.36	102	ePb	44 56.50	1.0	
KZN	1.68	49	ePn	45 00.80	0.7	
NEO	2.42	87	ePn	45 10.00	-0.7	
ITM	2.49	144	ePb	45 15.50	3.8X	
PLG	2.82	65	ePn	45 15.80	-0.6	
ATH	3.09	113	ePn	45 16.00	-4.2X	
VLI	3.35	137	ePn	45 23.50	-0.5	

S.D. = 0.9 on 6 of 8 obs.

JAN 29, 1991 15h 51m 30.82± 0.84s
44.388 N ± 7.0km 8.328 E ± 7.2km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.4 (GEN).

CKI	0.05	317	Pc	51 33.80	0.8	
			iSg	51 34.20		
FIN	0.20	206	P	51 34.87	-0.3	
			S	51 38.66		
PCP	0.22	45	P	51 35.15	-0.4	
			S	51 38.77		
ROB	0.34	254	P	51 37.32	-0.6	
			S	51 42.45		
IMI	0.57	214	P	51 43.22	0.7	
			S	51 50.14		
ENR	0.67	256	P	51 43.59	-0.6	
			S	51 52.16		
STV	0.73	259	P	51 45.62	0.3	
			S	51 54.32		
DOI	0.78	279	P	51 48.40	2.3X	
			eSg	51 59.20		
PZZ	0.89	278	P	51 47.65	-0.3	
			S	51 59.16		

S.D. = 0.7 on 8 of 9 obs.

JAN 29, 1991 16h 04m 00.06± 1.64s
14.998 S ± 5.0km 75.740 W ± 6.4km
DEPTH = 26.6 ± 11.6 km
5.2mb (22 obs.) 5.0Msz (6 obs.)
NEAR COAST OF PERU (115)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN

L.P.B.: 14S, 27C
Centroid Location:
Origin Time 16:04: 1.5 0.4
Lat 15.58S 0.09 Lon 75.81W 0.07
Dep 22.6 3.4 Half-duration 1.6
Moment Tensor: Scale 10**16 Nm
Mrr= 4.71 0.31 Mtt=-0.17 0.30
Mff=-4.55 0.42 Mrt=-1.34 0.63
Mrf=-2.89 0.80 Mtf= 2.72 0.35
Principal Axes:
T Val= 6.24 Plg=63 Azm=135
N 0.02 24 343
P -6.26 11 248
Best Double Couple:Mo=6.2*10**16
NP1:Strike=311 Dip=40 Slip= 50
NP2: 178 61 118

PT10	3.14	337	e(P)	04 50.00	1.0	
			i	04 55.50		
			eS	05 37.00		
NNA	3.18	340	eP	04 48.70	-0.8	
	0.7s		321.92nm			
			i	04 57.70		
			eS	05 38.00		
ARE	4.34	110	iPc	05 05.00	-1.3	
			i(S)	06 03.00		
ZOBO	7.45	101	iPc	05 51.90	1.6	
LPB	7.51	103	P	05 52.20	1.1	
	1.2s		906.25nm		6.8mb X	
			LR	08 38.00		
CNCB	7.68	105	P	05 54.00	0.4	
CCH	9.52	106	P	07 16.90	58.0X	
SIV	14.17	96	P	07 16.20	-5.1X	
PURC	17.22	358	eP	08 06.05	5.0X	
SILC	17.58	358	eP	08 08.93	3.5X	
SALC	17.88	357	eP	08 10.54	1.7	
DIAC	18.18	359	eP	08 15.06	2.5	
ROCH	18.40	167	eP	08 15.00	-0.3	
ANCC	18.43	356	eP	08 18.31	2.8X	
PEL	18.64	167	iPc	08 17.10	-0.9	
	1.6s		60.00nm		4.5mb	
CLMC	18.77	357	eP	08 22.32	2.4	
FCH	18.91	166	eP	08 21.50	-0.1	
TACH	19.08	168	eP	08 22.70	-0.6	
LNV	19.28	169	iPd	08 24.00	-1.7	
ITB1	22.23	119	e(P)	08 56.00	-0.4	
ITB7	22.59	120	e(P)	08 59.50	-0.5	
UPA	24.12	351	iPd	09 17.60	2.8X	
	1.2s		65.63nm		5.0mb	
	Z 18s		1.51um		4.5Msz	
PPD	24.18	110	eP	09 14.90	-0.5	
			e	09 17.70		
			e	09 23.50		
LPA	25.49	144	eP-	09 30.00	2.2	
			eS	14 20.00		
JFO	31.44	107	eP	10 22.70	1.0	
SOB1	34.52	84	eP	10 48.20	-0.4	
PDCR	35.63	91	eP	10 56.00	-2.0	
			e	11 05.40		
PRM	49.21	353	P	12 46.70	-1.4	
JSC	49.28	354	P	12 47.20	-1.4	
TKL	50.95	352	P	13 00.10	-1.3	
GBTN	51.02	351	P	13 00.60	-1.3	
PWLA	51.06	347	P	13 00.40	-1.8	
RSCP	51.17	350	P	13 02.40	-0.7	
	1.0s		86.77nm		5.6mb	
NAV	52.25	355	P	13 10.00	-1.2	
OLY	52.39	344	P	13 10.40	-1.9	
NA2	52.87	358	P	13 14.50	-1.3	
ELC	53.53	347	P	13 18.00	-2.6X	
MEO	54.06	337	eP	13 21.20	-3.4X	
TUL	54.07	340	ePc	13 23.60	-1.0	
	1.0s		76.00nm		5.7mb	
	Z 18s		0.28um		4.4Msz	
			LR	32 15.70		
FVM	54.47	346	P	13 25.60	-2.0	
PNJ	55.64	1	iP	13 35.20	-0.7	
CLE	56.45	355	iP	13 42.90	1.0	
WVLY	57.24	358	P	13 46.30	-1.2	
ALO	57.60	330	eP	13 49.80	-0.5	
	1.0s		16.75nm		5.0mb	
	Z 18s		0.69um		4.8Msz	
HBVT	59.12	2	P	14 00.10	-0.5	
RSNY	59.27	1	P	14 00.50	-1.1	
GAC	60.41	0	eP	14 09.00	-0.3	
	1.2s		15.00nm		5.0mb	
GLD	61.00	334	P	14 13.50	-0.3	

	1.4s		30.41nm		5.2mb	
GOL	61.02	334	P	14 12.80	-1.2	
	1.4s		29.37nm		5.2mb	
CBM	62.02	6	P	14 20.20	-0.1	
PLM	62.06	321	eP	14 24.00	3.0X	
TPC	62.10	323	eP	14 23.00	1.9	
MSU	63.23	329	P	14 28.80	0.1	
MWC	63.38	321	eP	14 31.00	1.2	
GSC	63.38	323	eP	14 31.00	1.4	
SBB	63.56	322	eP	14 30.00	-0.8	
CLC	64.20	323	eP	14 35.00	0.0	
DAU	64.24	330	P	14 35.50	0.0	
RSSD	64.25	338	P	14 34.00	-1.4	
DUG	64.83	329	P	14 39.70	0.6	
BW06	65.35	333	P	14 41.20	-1.3	
	1.4s		16.44nm		5.0mb	
TNP	65.58	325	P	14 44.10	0.1	
PRI	66.24	321	e(P)	14 50.00	1.8	
FRI	66.25	323	e(P)	14 47.90	-0.1	
LLA	66.73	322	ePd	14 52.20	1.0	
CMB	67.35	323	ePd	14 55.90	0.8	
ORV	69.01	324	eP	15 06.40	1.0	
LRM	69.03	333	eP	15 06.00	0.3	
SCH	69.95	6	eP	15 09.00	-1.8	
WDC	70.29	324	ePd	15 09.00	-4.2X	
SES	72.11	337	eP	15 23.00	-1.0	
	1.5s		102.00nm		5.6mb	
FFC	72.94	344	eP	15 28.00	-0.8	
	1.0s		16.00nm		5.0mb	
NEW	72.95	332	P	15 28.20	-0.8	
	1.2s		17.05nm		4.9mb	
LIC	73.16	79	P	15 29.68	-1.2	
	Z 20s		1.25um		5.2Msz	
TIC	73.30	78	P	15 30.34	-1.3	
KIC	73.48	79	Pc	15 31.60	-1.1	
	1.1s		22.00nm		5.1mb	
BMW	74.61	328	P	15 39.80	1.1	
PNT	74.85	332	eP	15 42.00	2.0	
SPA	75.10	180	iPc	15 42.00	0.6	
	1.0s		12.50nm		4.9mb	
			i	15 59.00		
EDM	75.23	338	eP	15 41.50	-0.7	
WEGH	77.45	81	eP	15 50.00	-5.3X	
KOGH	77.67	80	eP	15 50.50	-6.1X	
TEGH	77.77	81	eP	15 51.50	-5.5X	
SHGH	77.81	80	eP	15 52.00	-5.3X	
TIO	80.03	54	iP	16 10.60	1.3	
AVE	80.89	52	iP	16 15.50	1.9	
IFR	82.72	53	iP	16 25.00	1.6	
YKA	83.02	343	eP	16 22.60	-1.4	
	1.0s		13.20nm		5.0mb	
LPF	91.11	40	eP	17 03.20	-0.4	
	1.1s		22.00nm		5.4mb	
LFF	91.18	44	eP	17 04.00	0.1	
	1.3s		36.10nm		5.6mb	
FLN	91.72	40	eP	17 06.20	-0.2	
	1.0s		16.00nm		5.4mb	
LDF	91.89	40	eP	17 06.90	-0.2	
CAF	92.06	44	eP	17 08.00	-0.1	
INK	92.70	342	ePc	17 10.60	0.1	
SMF	93.78	43	eP	17 15.50	-0.4	
MBC	94.72	350	ePd	17 20.20	0.6	
	1.5s		26.00nm		5.4mb	
BCAO	95.25	87	iPc	17 23.60	0.2	
	1.0s		15.00nm		5.4mb	
			id	17 33.80		
LPL	95.38	44	eP	17 24.20	0.6	
	1.1s		9.75nm		5.2mb	
LPG	95.39	44	eP	17 24.40	0.7	
SOTA	98.81	44	eP	17 39.00	0.1	
	1.2s		18.60nm		5.5mb	
			i	17 49.50		
WRA	134.39	221	PKP	23 18.00	-0.2	
	1.0s		6.50nm			
OUE	142.58	60	ePKP	23 34.80	1.5	
			eS	26 38.50		
MAT	142.94	312	(PKP)	23 30.00	-3.5X	
CN2	146.88	332	ePKP	23 37.00	-1.5	
WMO	147.98	23	PKP	23 42.50	0.8	
SNY	148.48	332	ePKP	23 43.00	0.6	
NDI	151.53	57	ePKP	23 48.00	0.5	
BJI	152.96	340	ePKP	23 50.00	0.9	
HHC	153.47	348	PKP	23 51.40	1.4	
GBA	153.97	90	PKP	23 51.50	0.3	
GTA	155.37	8	ePKP	23 53.60	1.0	
	Z 20s		0.40um		5.2Msz	
TIY	156.24	344	ePKP	23 55.10	1.3	

Z 20s 0.50um 5.3Msz
GKN 157.66 51 PKP 23 55.80 -0.2
DMN 158.22 52 PKP 23 56.80 0.0
KKN 158.26 51 PKP 23 56.80 0.0
PKI 158.47 51 PKP 23 57.40 0.2
GUN 158.64 50 PKP 23 57.80 0.4
LZH 159.00 1 ePKP 23 56.00 -1.3
2.0s 40.00nm
Z 24s 0.41um 5.2MszX
PP 28 13.00
XAN 160.58 348 PKP 24 00.50 1.6
CD2 164.15 2 ePKP 24 04.60 2.1
S.D. = 1.1 on 105 of 120 obs.

% JAN 29, 1991 17h 18m 44.57± 0.67s
44.389 N ± 6.7km 7.303 E ± 6.6km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.3 (GEN).

DOI 0.12 340 P 18 48.80 1.1
iSg 18 50.50
STV 0.15 174 P 18 48.33 0.3
S 18 50.38
ENR 0.18 152 P 18 49.05 0.3
S 18 51.82
PZZ 0.19 309 P 18 47.85 -0.9
S 18 49.90
ROB 0.42 103 P 18 53.36 0.2
S 18 59.51
IMI 0.64 138 P 18 57.05 -0.4
S 19 00.07
FIN 0.67 105 P 18 57.59 -0.4
S 19 00.89
PCP 0.90 80 P 19 01.63 -0.3
S.D. = 0.7 on 8 of 8 obs.

? 29, 1991 17h 45m 22.60± 1.56s
:03 S ±30.5km 174.743 E ±17.9km
:H = 123.1 ± 20.3 km
COOK STRAIT, NEW ZEALAND (163)

KIW 0.65 169 P 45 42.80 0.6
MNG 0.69 125 Pc 45 41.40 -1.1
S 46 08.30
CAW 0.92 165 P 45 45.00 0.6
MRW 1.01 182 P 45 46.10 0.9
S 46 17.70
TCW 1.05 200 P 45 46.60 0.9
WDW 1.06 170 P 45 46.20 0.4
MTW 1.10 149 P 45 45.70 -0.5
MOW 1.26 162 P 45 47.50 -0.4
BLW 1.27 154 P 45 47.80 -0.2
THZ 2.08 222 P 45 55.90 -1.8
WARB 42.12 274 eP 53 04.50 0.4
S.D. = 1.0 on 11 of 11 obs.

JAN 29, 1991 18h 21m 58.12± 1.05s
39.132 N ±10.0km 17.667 E ± 9.3km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

TDS 1.16 297 P 22 21.00 1.3
LCI 1.22 10 P 22 24.50 3.7X
SOI 1.65 231 P 22 27.30 0.1
eSg 22 46.50
BRT 1.78 349 P 22 31.00 1.9
eSg 22 54.50
MGR 1.92 302 Pd 22 31.10 0.0
ATN 1.98 241 P 22 31.20 -0.8
eSg 22 54.80
BAI 2.08 343 P 22 32.00 -1.4
OHR 3.11 50 ePn 22 49.50 1.3
BDV 3.27 15 ePn 22 49.50 -0.9
eSn 23 28.00
HCY 3.37 11 ePn 22 51.00 -0.8
eSn 23 31.00
TTG 3.51 20 ePn 22 53.00 -0.7
eSn 23 34.70
BRY 3.82 10 ePn 22 57.20 -1.2
eSn 23 42.00
PVY 3.88 26 ePn 22 59.50 0.4
eSn 23 45.50
SKO 4.04 44 ePn 23 21.00 19.7X
IVA 4.10 24 ePn 23 03.10 0.9
eSn 23 52.50
VAY 4.34 58 ePn 23 10.60 4.9X

S.D. = 1.2 on 13 of 16 obs.

? JAN 29, 1991 18h 48m 55.76± 5.48s
41.871 S ±21.9km 171.564 E ±48.7km
DEPTH = 27.1 ± 6.2 km
SOUTH ISLAND, NEW ZEALAND (162)
ML 3.7 (WEL).

THZ 1.01 84 P 49 12.60 -1.5
S 49 25.40
LTZ 1.05 150 Pd 49 14.50 -0.2
S 49 27.40
KHZ 1.57 111 Pc 49 22.10 0.0
S 49 42.30
MQZ 2.00 157 P 49 27.20 -1.2
TCW 2.14 73 P 49 30.40 0.1
MRW 2.44 76 P 49 34.60 0.0
WDW 2.64 78 P 49 36.80 -0.7
KIW 2.71 69 P 49 38.60 0.1
CAW 2.74 75 P 49 38.30 -0.6
MOW 2.80 82 P 49 38.80 -0.9
MTW 3.04 78 P 49 41.40 -1.8
MNG 3.21 68 P 49 44.60 -0.9
S.D. = 0.8 on 12 of 12 obs.

? JAN 29, 1991 19h 42m 35.34± 1.75s
27.562 S ±32.9km 176.317 W ±18.4km
DEPTH = 33.0km (normal)
5.1mb (8 obs.)
KERMADEC ISLANDS REGION (177)

SVA 10.56 332 eP 45 06.00 -1.5
NDF 11.32 328 eP 45 19.60 1.7
TBI 24.59 86 iP 48 07.30 13.6X
1.3s 205.00nm
AFR 26.41 73 eP 48 11.00 0.2
1.1s 85.00nm 5.3mb
PAE 26.52 74 eP 48 12.00 0.1
1.1s 55.00nm 5.1mb
PPT 26.57 74 eP 48 12.00 -0.3
1.1s 75.00nm 5.2mb
PPN 26.71 74 eP 48 13.00 -0.6
1.1s 40.00nm 5.0mb
TVO 26.75 74 eP 48 15.00 1.0
1.1s 55.00nm 5.1mb
MAT 76.79 324 eP 54 24.00 -1.4
PRS 81.94 42 ePd 54 51.50 -1.6
PRI 82.23 42 eP 54 54.00 -0.7
MHC 82.46 41 e(P) 54 54.80 -1.2
BKS 82.49 40 eP 54 41.70 -14.2X
0.6s 25.00nm
PLM 82.77 47 eP 54 57.00 -0.7
PEC 82.93 46 P 54 57.70 -0.6
FRI 83.37 42 ePd 55 00.60 0.2
CMB 83.67 41 ePd 55 00.90 -1.1
TPC 83.77 46 eP 55 03.00 0.3
CLC 83.89 44 eP 55 03.00 -0.2
GLA 83.91 48 eP 55 05.00 1.6
GSC 84.05 45 eP 55 04.00 -0.1
ORV 84.06 39 e(P) 55 03.70 -0.2
WDC 84.18 38 ePd 55 04.20 -0.3
TNP 85.58 43 P 55 12.10 0.3
0.8s 7.35nm 4.9mb
SVW 89.94 10 P 55 27.00 -5.1X
PV09 90.87 46 P 55 45.00 7.8X
NEW 92.21 35 P 55 51.50 8.7X
BW06 93.07 43 P 55 50.00 2.9X
GOL 93.97 47 P 55 59.00 7.6X
GLD 94.09 47 P 56 00.00 8.2X
FBA 94.79 12 P 55 55.00 0.7
1.0s 15.00nm 5.4mb
SES 96.66 36 eP 56 05.00 1.9
RSSD 97.16 44 P 56 01.80 -4.0X
INK 100.66 15 ePdiff56 22.00 1.2
YKA 102.26 25 ePdiff56 29.30 1.3
0.6s 0.90nm 4.6mb
S.D. = 1.0 on 26 of 35 obs.

& JAN 29, 1991 19h 49m 12.01s
60.763 N 147.878 W
DEPTH = 2.9km
SOUTHERN ALASKA (2)
<AEIC>.

GLI 0.40 73 iP 49 20.63 0.6
eS 49 26.96
KNIM 0.42 170 iP 49 20.42 0.0
eS 49 26.53
KNK 0.71 337 eP 49 26.13 -0.1
eS 49 36.41
VZW 0.71 65 iP 49 25.44 -0.8
eS 49 35.35
HIN 0.77 118 iP 49 27.35 -0.1
eS 49 40.10
MTU 0.79 172 iP 49 27.37 -0.3
eS 49 38.86
VLZ 0.84 63 eP 49 27.43 -1.3
eS 49 40.32
PMS 0.95 301 eP 49 29.97 -0.9
iS 49 43.30
SEW 1.02 230 eP 49 30.59 -1.4
eS 49 44.48
PLRM 1.03 324 eP 49 31.11 -1.0
eS 49 46.06
CVA 1.07 101 iP 49 31.96 -0.8
eS 49 48.52
GHO 1.13 334 eP 49 33.24 -0.7
eS 49 48.96
SLKM 1.18 259 iP 49 33.63 -1.1
eS 49 49.69
KLU 1.20 52 iP 49 33.87 -1.2
PWA 1.32 313 eP 49 35.91 -1.1
SGAM 1.34 100 iP 49 36.12 -1.3
SUA 1.56 298 eP 49 39.43 -1.4
iS 50 00.86
TOA 1.58 31 eP 49 39.63 -1.4
RAGM 1.63 102 eP 49 40.70 -1.0
NKA 1.65 271 eP 49 42.05 0.1
TZL 1.75 41 eP 49 43.43 0.0
BRLK 1.80 238 iP 49 42.38 -1.9
HMT 1.84 102 eP 49 42.97 -1.8
KAIM 1.91 114 eP 49 45.16 -0.7
CUT 2.01 326 eP 49 46.37 -0.8
eS 50 12.94
SPU 2.08 283 eP 49 46.31 -2.0
iS 50 12.55
CNPM 2.09 235 eP 49 46.10 -2.3
GLB 2.09 69 iP 49 47.15 -1.3
iS 50 13.90
SDG 2.09 31 iP 49 48.35 -0.1
eS 50 14.95
SKT 2.14 306 eP 49 47.58 -1.6
CRP 2.14 286 eP 49 48.89 -0.4
CKL 2.22 283 eP 49 48.31 -2.0
RDT 2.24 267 eP 49 48.16 -2.4
BGL 2.25 285 eP 49 48.96 -1.9
REF 2.39 266 eP 49 50.46 -2.5
RDN 2.42 266 eP 49 50.57 -2.7
RSO 2.42 265 eP 49 50.94 -2.4
RS2 2.42 265 eP 49 50.98 -2.4
RED 2.44 264 eP 49 51.16 -2.3
TGL 2.48 88 eP 49 51.64 -2.4
NCT 2.50 268 eP 49 51.80 -2.5
WAX 2.50 95 eP 49 52.04 -2.3
BALM 2.72 82 eP 49 55.36 -2.1
CTGM 3.21 84 eP 50 02.92 -1.5
44 obs. associated

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* JAN 29, 1991 20h 19m 16.02± 1.25s
18.889 N ±10.8km 69.270 W ± 8.6km
DEPTH = 118.1 ± 13.0 km
4.5mb (2 obs.)
DOMINICAN REPUBLIC REGION (88)

SJG 3.06 104 iP 20 04.00 0.2
S 20 47.50
LPR 3.28 100 P 20 06.00 -0.7
CPD 3.29 104 P 20 08.00 1.1
PAG 7.78 110 eP 21 07.70 -0.5
S 22 10.00
SEG 7.80 107 eP 21 08.05 -0.3
MGG 8.15 110 eP 21 12.90 -0.1
BBL 8.16 113 eP 21 06.00 -7.3X
CLMC 16.53 206 eP 23 02.71 0.2
DIAC 16.92 204 ePd 23 06.20 -1.1
HOOC 16.93 206 eP 23 07.52 0.0
ANCC 16.99 207 eP 23 09.70 1.7
TUL 28.88 311 e(P) 25 05.60 0.0
PPD 44.30 156 e(P) 27 14.00 -1.9
FRB 44.82 0 eP 27 10.00 -9.5X
YKA 53.56 336 eP 28 25.50 -0.9
0.6s 2.20nm 4.3mb
LIC 63.66 92 P 29 38.00 0.7
KIC 63.89 92 P 29 38.80 0.0

29d 20h

```
BCAO    86.51  87 ePd    31 49.10   1.6
        0.5s      5.00nm          4.7mb
      S.D. = 1.1   on  16 of  18 obs.
-------------------------------------
?  JAN 29, 1991  20h 24m 40.72± 1.85s
   46.045 N ± 7.9km    2.889 E ±16.1km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                          (538)
      ML 1.2 (LDG).

MAF     0.29 308 Pg     24 47.50   0.8
                 Sg     24 51.10
BGF     0.51 357 Pg     24 51.00  -0.1
                 Sg     24 58.40
TCF     0.53 297 Pg     24 50.80  -0.7
                 Sg     24 58.10
CAF     1.26 208 Pg     25 04.20   0.0
                 Sg     25 22.00
      S.D. = 1.0   on   4 of   4 obs.
-------------------------------------
   JAN 29, 1991  20h 43m 16.13± 0.49s
   37.523 N ± 4.6km    26.845 E ± 4.8km
   DEPTH =  10.0km  (geophysicist)
 DODECANESE ISLANDS              (369)
      ML 3.8 (ATH).

SMG     0.19 358 ePg    43 20.50   0.2
IZM     0.93  21 iPg    43 33.40  -0.6
APE     1.14 247 ePb    43 38.20   0.7
YER     1.21 108 iPn    43 38.50  -0.2
ARG     1.66 141 ePb    43 45.50   0.1
PRK     1.78 346 ePb    43 47.00  -0.1
KHL     2.26  69 ePn    43 53.40  -0.8
EZN     2.34 350 ePn    43 54.60  -0.5
NPS     2.47 204 ePn    43 56.80  -0.2
DST     2.51  33 ePn    43 57.00  -0.6
ATH     2.52 281 ePn    43 58.50   0.8
ELL     2.57 107 ePn    44 01.00   2.4X
EDC     2.93  15 ePn    44 05.00   1.4
BNT     2.95  16 ePn    44 05.00   1.1
KCT     2.97  23 ePn    44 06.00   1.9
BCK     2.98  90 ePn    44 07.00   2.6X
ALT     2.99  58 ePn    44 05.00   0.5
VAM     3.00 226 ePb    44 08.00   3.4X
VLI     3.23 257 ePn    44 07.00  -0.8
YLV     3.62  32 ePn    44 18.80   5.3X
RDO     3.76 345 ePn    44 15.00  -0.3
ISK     3.93  25 ePn    44 16.00  -1.8
HRT     3.96  33 ePn    44 20.00   1.8
KDZ     4.27 345 iP     44 22.00  -0.6
DMK     4.35   9 eP     44 22.00  -1.8
BBTK    5.18  62 eP     44 57.00  21.4X
VTS     5.78 332 iP     44 44.00  -0.1
      S.D. = 1.0   on  22 of  27 obs.
-------------------------------------
•  JAN 29, 1991  21h 19m 38.36± 1.53s
   41.883 S ±12.7km  171.517 E ±13.3km
   DEPTH =  28.0 ±  6.7 km
 SOUTH ISLAND, NEW ZEALAND       (162)
      ML 3.5 (WEL).

THZ     1.04  84 Pd     19 56.10  -1.1
                 S      20 08.60
LTZ     1.06 148 Pc     19 57.80   0.4
                 S      20 10.30
KHZ     1.60 110 P      20 05.60   0.6
                 S      20 24.70
MOZ     2.01 156 P      20 10.50  -0.4
TCW     2.18  73 P      20 14.10   0.7
MRW     2.48  76 eP     20 17.30  -0.4
WDW     2.68  78 P      20 20.20  -0.3
KIW     2.75  69 P      20 22.20   0.7
CAW     2.78  75 P      20 21.80  -0.1
MMCZ    3.57 208 P      20 33.40   0.1
MHZ     3.57 206 P      20 33.20  -0.1
      S.D. = 0.7   on  11 of  11 obs.
-------------------------------------
?  JAN 29, 1991  21h 57m 47.72± 1.02s
   17.270 N ± 8.3km  121.508 E ±12.4km
   DEPTH =  10.0km  (geophysicist)
 LUZON, PHILIPPINE ISLANDS       (249)

CVP     0.53  35 eP     57 58.00  -0.4
                 eS     58 08.00
BAG     1.23 226 eP     58 10.00  -0.8
                 eS     58 27.00
PIP     1.35 321 iPd    58 13.00   0.5
PGP     3.78 188 eP     58 48.00   0.6
      S.D. = 1.2   on   4 of   4 obs.
-------------------------------------
%  JAN 29, 1991  22h 03m 37.03± 0.66s
   3.524 N ± 5.4km    76.533 W ± 6.1km
   DEPTH =  10.0km  (geophysicist)
 COLOMBIA                        (103)
      MD 2.4 (UVC).

HOOC    0.12 241 iPc    03 39.79  -0.4
                 eS     03 41.50
ANCC    0.33 268 iPc    03 44.39   0.4
                 eS     03 49.50
CLMC    0.36 355 ePc    03 44.43   0.0
DIAC    0.41 125 eP     03 45.65   0.2
SALC    0.57 196 eP     03 48.58  -0.1
HOBC    0.92  26 eP     03 54.46  -0.2
      S.D. = 0.4   on   6 of   6 obs.
-------------------------------------
&  JAN 29, 1991  22h 16m 18.90s
   63.423 N          151.194 W
   DEPTH =  13.0km
 CENTRAL ALASKA                  (  1)
      <AEIC>.

TRF     0.41  86 iP     16 27.08  -0.4
                 eS     16 33.75
HUR     0.84 122 eP     16 34.73   0.0
                 eS     16 46.74
RND     1.05  90 iP     16 38.44  -0.1
                 eS     16 52.91
MCK     1.06  72 eP     16 38.83   0.3
                 eS     16 54.12
BWN     1.07  45 eP     16 39.56   0.7
                 eS     16 55.01
CUT     1.11 157 iP     16 39.34   0.0
                 eS     16 55.50
SKT     1.46 186 eP     16 44.38  -0.5
                 eS     17 03.87
NEA     1.49  38 eP     16 45.37   0.1
                 eS     17 04.78
WRH     1.73  51 eP     16 50.04   1.3
                 eS     17 12.75
PWA     1.88 160 eP     16 51.30   0.3
                 S      17 16.64
CCB     1.93  49 eP     16 49.36  -2.4
                 eS     17 18.72
RDS     1.94  42 eP     16 51.96   0.1
                 eS     17 18.14
GHO     1.96 147 eP     16 52.10  -0.1
                 eS     17 17.72
SUA     1.98 174 eP     16 52.84   0.3
MDM     2.02  39 eP     16 53.61   0.6
                 eS     17 20.10
PLRM    2.07 152 iP     16 53.67  -0.1
FBA     2.10  44 eP     16 55.45   1.3
HDA     2.12  60 eP     16 55.60   1.2
BGL     2.24 195 eP     16 56.23  -0.1
SPU     2.29 191 eP     16 56.52  -0.4
GLM     2.29  45 eP     16 56.59  -0.4
CKL     2.30 194 eP     16 57.53   0.4
PMS     2.32 160 eP     16 57.97   0.6
KNK     2.39 147 eP     16 58.84   0.5
TOA     2.66 118 eP     17 01.96  -0.3
SDG     2.73 107 eP     17 04.59   1.3
RDT     2.92 192 eP     17 06.27   0.4
RDN     3.01 195 eP     17 07.81   0.6
REF     3.03 194 eP     17 10.11   2.6
KLU     3.12 126 eP     17 09.50   0.7
GLI     3.20 141 iP     17 09.99   0.2
      31 obs. associated
-------------------------------------
?  JAN 29, 1991  22h 16m 25.46± 9.38s
   60.485 N ±17.1km    1.614 E ±78.7km
   DEPTH =  10.0km  (geophysicist)
 NORTH SEA                       (534)
      MD 2.8 (BER).

OSG     0.62  88 eP     16 41.75   3.8X
                 eS     16 52.09
SUE     1.65  68 eP     16 54.32  -0.2
                 eS     17 14.15
ASK     1.77  89 eP     16 56.34   0.0
                 eS     17 19.44
KMY     2.23 123 eP     17 02.64  -0.4
                 eS     17 28.12
HYA     2.34  71 eP     17 05.80   1.2
                 eS     17 31.93
ODD1    2.57 101 eP     17 09.14   1.3
MOL     3.53  51 eP     17 21.36   0.0
                 eS     18 00.67
NRA0    4.90  83 Pn     17 38.70  -2.1
                 Sn     18 33.20
      S.D. = 1.4   on   7 of   8 obs.
-------------------------------------
?  JAN 29, 1991  22h 31m 33.77± 1.93s
   39.057 N ±12.6km    28.755 E ±20.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      MD 2.6 (ISK).

DST     0.56 350 iPg    31 44.60  -0.5
KHL     0.95 140 ePg    31 52.00   0.1
                 eSg    32 04.40
ALT     1.06  90 ePg    31 53.40  -0.3
                 eSg    32 06.40
YLV     1.58  17 ePn    32 02.70   0.7
      S.D. = 1.0   on   4 of   4 obs.
-------------------------------------
   JAN 29, 1991  22h 46m 40.52± 0.48s
   12.887 N ± 3.6km    90.865 W ± 3.0km
   DEPTH =  50.9 ±  4.1 km
   5.1mb ( 56 obs.)  4.6Msz (  8 obs.)
 OFF COAST OF CENTRAL AMERICA    ( 76)
      Ms 4.8 (BRK). Mo=2.0••10••17 Nm
      (PPT).
      CENTROID, MOMENT TENSOR    (HRV)
      Data Used: GDSN
      L.P.B.: 15S, 31C
      Centroid Location:
      Origin Time       22:46:38.9 0.6
      Lat 12.91N 0.07 Lon  91.46W 0.05
      Dep  15.0 FIX Half-duration  1.9
      Moment Tensor;   Scale 10••17 Nm
        Mrr=-1.04 0.05  Mtt= 0.96 0.05
        Mff= 0.08 0.07  Mrt=-0.10 0.19
        Mrf=-0.34 0.15  Mtf=-0.83 0.05
       Principal Axes:
        T  Val=  1.46  Plg= 2  Azm= 31
        N       -0.27      24      122
        P       -1.19      66      297
      Best Double Couple:Mo=1.3••10••17
       NP1:Strike= 99 Dip=48 Slip=-123
       NP2:       323     51      -59

CUSS    1.35  41 eP     47 03.50   0.1
VSS     1.79  62 iPc    47 10.00   0.3
SJAS    1.83  65 eP     47 10.00  -0.2
TME     1.85  52 iPc    47 11.00   0.6
LFU     1.91  63 eP     47 11.80   0.5
                 eS     47 40.80
TPX     2.42 326 iP     47 16.47  -2.0
TPX     2.42 326 iP     47 16.80  -1.6
                 iS     47 45.00
SCX     4.19 336 iP     47 44.50   1.0
                 (S)    48 34.00
OXX     7.03 307 iP     48 22.04  -1.6
LVVM    8.67 323 (P)    48 42.24  -3.8X
DVD     9.38 117 iP     48 58.40   2.5X
                 i      50 42.50
IIT     9.40 311 iP     48 56.93   0.4
PPM     9.67 310 iP     49 00.35   0.0
IIA     9.74 311 iP     49 01.06   0.2
III     9.92 304 iP     49 03.14  -0.4
UNM    10.24 310 (P)    49 08.00   0.0
CRX    10.66 309 (P)    49 14.65   0.9
UPA    11.78 108 iPc    49 27.30  -1.3
       1.4s     153.49nm          5.9mb
     Z 18s        2.61um          5.1Msz
ANCC   16.68 123 eP     50 32.74   0.3
CLMC   16.73 121 eP     50 34.84   1.6
HOBC   16.84 119 eP     50 33.93  -0.6
HOOC   16.90 122 eP     50 36.36   0.9
SALC   17.13 124 eP     50 39.94   1.7
DIAC   17.36 122 eP     50 42.91   1.8
CUMC   17.50 132 eP     50 45.40   2.2
SILC   17.59 124 eP     50 45.43   1.3
BMG    18.44 107 iPd    50 54.00  -0.4
BOG    18.51 115 iPc    51 00.00   4.6X
                 iS     54 34.00
HBF    22.14  24 P      51 33.30   0.0
PWLA   22.14   6 P      51 34.00   0.6
SGS    22.32  23 P      51 34.80  -0.3
PRM    22.47  19 P      51 35.60  -1.1
```

OLY		22.52	359	P	51	36.00	-1.2				eLQ	05	44.00				Z	20s	0.43um		4.8Msz								
MEO		22.90	343	iPc	51	39.00	-1.8				eLR	08	11.20			LDF		80.95	42	eP	58	50.00	-1.0						
JSC		23.02	21	P	51	41.80	-0.2	ORV	37.89	320	ePd	53	56.00	1.5				0.8s	10.75nm		4.8mb								
RSCP		23.11	11	P	51	43.80	0.8				epP	54	06.40	36kmX		LFF		82.15	46	eP	58	56.60	-0.7						
TUL		23.35	350	ePc	51	44.20	-1.0				ePcP	56	12.90					1.0s	14.00nm		4.9mb								
		0.8s	63.30nm			5.1mb		MIN	38.42	321	ePd	53	59.00	-0.1		EPF		82.20	48	eP	58	57.20	-0.6						
	Z	19s	0.63um			4.1Msz					epP	54	10.00	39kmX				1.1s	14.65nm		4.9mb								
			LR		57	39.10		CBM	38.95	25	P	54	02.20	-1.1		LPO		82.51	46	eP	58	58.50	-0.7						
LHS		23.35	21	P	51	45.10	-0.1	WDC	39.13	321	ePd	54	03.50	-1.4				1.2s	17.85nm		5.0mb								
GBTN		23.46	14	P	51	46.60	0.3				e	54	06.90			RJF		82.62	45	eP	58	59.10	-0.7						
TKL		23.56	15	P	51	47.60	0.4				epP	54	14.90	41kmX			Z	20s	0.25um		4.6Msz								
ELC		24.34	3	P	51	54.00	-0.8				ePcP	56	12.90			TCF		82.91	44	eP	59	00.10	-1.3						
ALQ		26.11	330	ePd	52	12.00	0.3	LBFM	39.19	322	P	54	06.00	0.3		CAF		83.08	46	eP	59	01.30	-0.9						
		1.0s	15.00nm			4.5mb		FHC	40.16	320	ePd	54	14.80	1.4		MAF		83.17	44	eP	59	01.60	-1.0						
CVL		27.33	22	P	52	21.60	-1.0				epP	54	25.30	36kmX				1.1s	11.00nm		4.8mb								
CBN		27.93	23	eP	52	27.00	-1.0				ePcP	56	18.80			BGF		83.29	44	eP	59	02.20	-1.1						
GOL		29.62	337	P	52	45.10	1.5	SES	40.88	340	eP	54	19.00	-0.2				0.8s	10.05nm		4.9mb								
		1.0s	12.50nm			4.6mb			1.9s	238.00nm				5.6mb		AVF		83.58	44	eP	59	03.30	-1.4						
CLE		29.64	14	iP	52	41.90	-1.5	SIV	41.13	133	iPd	54	20.80	-0.8				1.2s	14.90nm		4.9mb								
GLA		29.69	316	eP	52	44.00	0.0	NEW	41.48	333	P	54	24.40	0.3		SSF		83.63	43	eP	59	03.80	-1.2						
			e		54	29.00			0.9s	15.35nm				4.7mb				0.8s	5.35nm		4.6mb								
BAR		30.75	314	eP	52	53.00	-0.3	DPW	41.66	332	P	54	26.60	0.9		LOR		83.82	43	eP	59	05.10	-0.9						
TPC		31.14	317	eP	52	57.00	0.2	SHW	42.46	328	P	54	38.40	6.1X				0.8s	10.75nm		4.9mb								
			e		55	48.00		LON	42.61	329	P	54	34.50	1.1			Z	21s	0.25um		4.6Msz								
PLM		31.26	315	eP	52	58.00	0.0	FFC	42.64	350	eP	54	33.00	-0.5		SMF		83.94	44	eP	59	05.10	-1.5						
GMTN		31.49	25	eP	52	58.70	-1.0		0.5s	21.00nm				5.1mb				1.1s	9.75nm		4.7mb								
PNJ		31.52	25	iP	52	59.00	-0.9	PNT	43.36	333	eP	54	41.00	1.5		LBF		83.96	43	eP	59	05.70	-1.0						
PEC		31.77	316	P	53	02.40	0.1		0.7s	77.00nm				5.5mb				1.0s	8.00nm		4.7mb								
MSU		31.78	327	P	53	03.40	0.9	GMW	43.64	329	P	54	41.70	0.0		ENN		84.38	39	eP	59	08.50	-0.1						
RVR		31.97	316	eP	53	04.00	0.0	EDM	44.04	341	eP	54	45.00	0.0				0.8s	9.00nm		4.9mb								
GSC		32.36	318	eP	53	08.00	0.6	MCW	44.42	330	P	54	48.90	0.8					e		59	13.50							
			e		55	54.00		PGC	44.70	329	eP	54	50.00	-0.2		TIC		84.51	84	P	59	10.82	0.8						
MWC		32.57	315	eP	53	10.00	0.6	SCH	45.89	19	ePc	54	58.30	-1.4		N82		84.59	29	P	59	10.00	0.4						
SBB		32.67	316	eP	53	10.00	-0.2		0.7s	124.00nm				5.9mb				1.1s	27.10nm		5.2mb								
			e		55	55.00		ROCH	49.39	158	eP	55	26.00	-1.4		LIC		84.59	85	P	59	11.56	1.2						
DAU		32.75	331	P	53	12.20	1.1	FCH	49.97	157	eP	55	31.20	-0.8			Z	22s	0.26um		4.6Msz								
RSSD		33.12	343	P	53	14.60	0.5	TACH	50.02	158	eP	55	31.00	-1.1		WTS		84.63	38	eP	59	10.50	0.7						
CLC		33.18	318	eP	53	15.00	0.4	LNV	50.13	159	iPc	55	31.00	-1.8				1.0s	12.00nm		4.9mb								
			e		55	56.00		BAO	51.01	123	ePc	55	40.50	0.5		KIC		84.84	85	P	59	12.60	1.0						
DUG		33.36	329	P	53	17.60	1.4	PPD	52.05	131	eP	55	45.10	-2.5				1.1s	42.50nm		5.5mb								
ISA		33.67	317	eP	53	20.00	1.2				e	55	55.90			HAU		85.30	42	eP	59	12.90	-0.4						
BW06		33.90	335	P	53	23.00	2.1	YKA	52.36	346	eP	55	47.80	-1.6				0.8s	10.75nm		5.1mb								
SYP		34.06	314	eP	53	23.00	0.7		1.0s	14.10nm				4.9mb		ABH		85.60	40	eP	59	17.09	2.3						
			e		56	08.00		FRB	53.15	12	eP	55	52.00	-3.2X		BSF		85.63	42	eP	59	14.50	-0.6						
TNP		34.34	322	P	53	25.00	0.2	SOB1	54.27	111	eP	56	05.00	0.9				1.1s	17.10nm		5.1mb								
RSNY		34.51	21	P	53	24.40	-1.5				e	56	09.00			CDF		85.80	41	eP	59	15.20	-0.7						
		0.9s	52.66nm			5.5mb		PDCR	57.19	114	eP	56	23.50	-1.7				1.2s	17.85nm		5.1mb								
ARE		34.89	146	eP	53	26.00	-3.7X				e	56	25.80			HFS		86.03	29	eP	59	17.50	0.8						
BONR		34.93	320	P	53	31.00	1.1				e	56	28.30					0.6s	2.70nm		4.6mb								
GAC		35.22	19	ePd	53	30.40	-1.5				e	56	38.70			EMS		86.16	44	ePd	59	17.80	-0.1						
		0.6s	8.00nm			4.8mb		BMA	57.83	127	eP	56	36.30	6.7X		LPL		86.16	44	eP	59	18.20	0.2						
FRI		35.25	318	ePd	53	32.00	-0.2	JFO	57.96	126	eP	56	30.90	0.4				1.0s	9.00nm		4.9mb								
			epP		53	42.70	37kmX				e	56	38.90			LPG		86.18	44	eP	59	18.50	0.4						
			ePcP		56	03.00		INK	61.81	343	eP	56	55.50	-0.7		BNI		86.24	45	P	59	20.20	2.0						
PRI		35.41	316	ePd	53	34.00	0.2		1.0s	45.00nm				5.6mb		LRG		86.41	46	eP	59	19.00	0.1						
			e		53	37.60		KLU	62.46	334	P	57	01.30	0.6				1.1s	19.55nm		5.2mb								
			epP		53	44.70	37kmX	RUV	62.50	245	iP	56	59.90	-1.6			Z	22s	0.30um		4.6Msz								
			ePcP		56	04.00			1.0s	65.00nm				5.7mb		DIX		86.48	44	ePc	59	20.10	0.5						
LLA		35.85	316	ePd	53	37.50	0.1	TPT	62.63	246	iP	57	00.70	-1.7		LMR		86.55	46	eP	59	19.50	-0.1						
			i		53	42.10			1.0s	40.00nm				5.5mb				1.2s	20.85nm		5.2mb								
			epP		53	47.90	36kmX	VAH	62.74	245	iP	57	01.50	-1.6		FRF		86.59	46	eP	59	19.70	-0.1						
			ePcP		56	05.10			1.0s	40.00nm				5.5mb				1.0s	30.00nm		5.5mb								
PRS		35.99	316	ePd	53	39.00	0.4	TOA	62.83	334	ePd	57	04.40	1.2		SLE		86.76	42	ePd	59	20.20	-0.4						
			ePcP		56	05.40		PMR	63.90	333	ePd	57	10.50	0.4		ZLA		86.76	42	ePd	59	20.60	0.0						
CMB		36.29	319	ePd	53	41.60	0.5		1.5s	82.70nm				5.5mb		DOI		86.77	45	P	59	22.50	1.7						
			e		53	45.00		FBA	64.70	337	ePd	57	15.20	-0.1		MMK		86.86	44	ePd	59	22.30	0.9						
			epP		53	52.20	37kmX		1.1s	30.50nm				5.2mb		ORO		86.98	44	P	59	21.80	0.0						
			ePcP		56	05.40		MBC	65.15	353	eP	57	16.00	-2.0		SBF		87.07	46	eP	59	22.00	-0.2						
			eS		59	25.00			0.8s	24.00nm				5.3mb				1.0s	12.00nm		5.1mb								
			eLO		05	33.00		PAE	65.42	244	iP	57	18.80	-1.8		KEV		87.19	18	eP	59	40.00	17.8X						
ARN		36.65	317	P	53	45.00	0.8		1.0s	55.00nm				5.5mb		LLS		87.33	43	ePd	59	24.00	0.4						
ZOBO		36.67	142	P	53	39.00	-6.1X	PDB	65.63	330	P	57	20.80	-0.5		SAX		87.45	42	ePd	59	24.60	0.4						
		1.0s	13.00nm			4.8mb		SVW	66.69	331	ePd	57	27.90	-0.2		VAI		87.45	44	P	59	25.50	1.7						
	Z	24s	0.60um			4.3MszX		TTA	67.38	333	ePd	57	32.10	-0.4		CKI		87.50	45	P	59	26.50	2.3						
			i		53	43.90			1.1s	32.70nm				5.3mb		VDL		87.75	43	ePd	59	26.10	0.5						
			S		59	28.00		IMA	67.41	337	eP	57	32.10	-0.7		MOX		87.90	38	eP	59	26.00	0.0						
			LR		04	48.00			1.5s	22.80nm				5.0mb				1.8s	69.00nm		5.6mb								
MHC		36.72	317	ePd	53	46.00	1.2	EKA	78.22	36	Pd	58	35.80	-0.4					e		59	28.00							
LPB		36.89	142	P	53	45.00	-1.8		0.8s	10.70nm				4.9mb		GRF		87.94	39	ePc	59	26.60	0.4						
	Z	17s	2.04um			5.0MszX		GUD	79.26	51	iPd	58	42.00	-0.4			Z	18s	0.30um		4.7Msz								
			LR		05	54.00		ECOG	80.19	54	e(P)	58	46.50	-1.0					ec		59	29.10							
WIM		37.21	26	P	53	47.80	-0.9	ECRI	80.20	48	eP	58	47.00	-0.3		OSS		88.14	43	ePd	59	27.80	0.4						
BKS		37.41	317	eP	53	51.20	0.8	LPF	80.43	43	eP	58	47.00	-1.3		BOB		88.21	45	P	59	30.00	2.3						
		0.8s	28.00nm			5.2mb		GRR	80.50	43	eP	58	47.50	-1.1		SOD		88.27	20	eP	59	32.00	4.6X						
	Z	20s	0.90um			4.6Msz			0.8s	16.10nm				5.0mb		PGF		88.52	47	eP	59	28.90	-0.3						
	N	20s	0.50um					FLN	80.69	42	eP	58	48.50	-1.1				0.9s	7.35nm		5.0mb								
	E	20s	1.40um						1.0s	20.00nm				5.0mb		CLL		88.52	38	iP	59	28.30	-0.6						

29d 22h

	0.9s	14.00nm		5.2mb		
		e	59	39.00		
SOTA	88.68	42 iPc	59	29.90	0.0	
	1.5s	26.00nm		5.3mb		
		e	00	22.00		
KUK	89.12	84 eP	59	33.00	0.5	
WET	89.14	40 iPd	59	33.10	1.1	
BRG	89.23	38 eP	59	32.50	0.2	
	1.5s	28.00nm		5.4mb		
		e	59	43.00		
WEGH	89.29	84 eP	59	30.00	-3.3X	
CTI	89.32	43 P	59	34.50	1.5	
SHGH	89.50	84 eP	59	31.00	-3.2X	
KHC	89.58	40 P	59	35.00	1.0	
TEGH	89.60	84 eP	59	32.00	-2.7X	
PRU	89.88	38 eP	59	35.20	-0.2	
FVI	89.90	42 P	59	38.00	2.5X	
KSP	90.63	37 eP	59	41.00	2.2	
NUR	90.88	27 eP	59	25.00	-14.7X	
ZST	92.10	40 eP	59	46.40	0.8	
KRA	93.09	37 eP	59	50.60	0.5	
		e	59	53.20		
KRI	122.51	102 iPKPd	05	37.00	4.1X	
HHC	122.64	340 PKP	05	33.20	0.7	
WMQ	123.55	1 PKP	05	34.60	0.4	
	Z 40s	0.70um		5.0MszX		
TIY	125.12	337 ePKP	05	37.50	0.1	
SSE	126.52	325 ePKP	05	38.50	-1.7	
GTA	127.03	350 ePKP	05	41.20	0.1	
	Z 28s	0.70um		5.2MszX		
LZH	129.35	345 PKPd	05	46.00	0.3	
	Z 35s	0.32um		4.8MszX		
		sPKP	05	58.00		
XAN	129.68	339 PKP	05	46.00	-0.2	
WHN	130.47	331 ePKP	05	48.50	0.8	
QUE	132.14	26 ePKP	05	52.20	1.0	
WRA	136.18	255 PKP	05	58.00	-0.9	
	1.0s	9.50nm				
GYA	137.34	337 PKP	06	01 40	0.3	
LSA	137.62	357 ePKP	06	01.00	-1.0	
GKN	139.12	6 PKP	05	57.80	-6.6X	
GUN	139.32	4 PKP	05	58.10	-6.9X	
KKN	139.39	5 PKP	05	56.30	-8.6X	
DMN	139.56	6 PKP	05	58.40	-6.9X	
PKI	139.62	5 PKP	05	59.00	-6.5X	
POO	145.33	26 iPKPd	06	15.00	-0.3	
CHG	147.05	343 ePKP	06	18.70	0.7	
	1.0s	31.00nm				
LOE	147.43	337 iPKPd	06	20.80	2.1	
NWAO	147.49	227 iPKPc	06	20.00	1.6	
HYB	148.13	19 ePKP	06	20.00	0.2	
	1.0s	65.00nm				
		i	06	23.00		
		e	06	35.00		
MUN	148.73	228 iPKPc	06	23.30	2.9X	
	1.0s	80.00nm				
MEKA	149.24	239 ePKP	06	24.70	3.4X	
MBL	149.56	250 iPKPc	06	26.00	4.1X	
	0.8s	44.00nm				
NST	149.61	339 ePKP	06	28.00	5.9X	
GBA	151.24	24 PKPd	06	24.10	-0.4	
	0.9s	6.90nm				
NNT	152.59	337 ePKP	06	33.20	6.7X	
	S.D. = 1.0	on 203 of 229 obs.				

? JAN 30, 1991 00h 02m 46.20± 4.01s
38.946 S ±42.1km 175.411 E ±41.6km
DEPTH = 242.0 ± 45.3 km
NORTH ISLAND, NEW ZEALAND (159)

MNG	1.67	178 P	03	25.70	0.3	
		S	03	53.70		
KIW	1.95	191 P	03	27.70	-0.2	
NOZ	2.08	82 P	03	29.00	0.0	
CAW	2.18	187 P	03	30.10	0.1	
MTW	2.21	178 P	03	30.40	0.1	
WDW	2.34	188 P	03	31.20	-0.4	
MRW	2.35	193 P	03	31.70	0.1	
		S	04	04.60		
TCW	2.43	201 P	03	32.40	0.0	
MOW	2.48	183 P	03	32.90	-0.1	
KHZ	3.75	202 P	03	47.20	0.1	
	S.D. = 0.2	on 10 of 10 obs.				

? JAN 30, 1991 00h 51m 10.00± 0.88s
41.801 N ± 8.6km 12.737 E ± 8.7km
DEPTH = 10.0km (geophysicist)

SOUTHERN ITALY (390)

RMP	0.03	292 P		51 11.80	-0.2	
			eSg	51 13.30		
RDP	0.05	199 P		51 12.30	0.1	
			eSg	51 13.60		
MNS	0.58	356 P		51 22.00	0.1	
			eSg	51 29.60		
SDI	0.81	96 P		51 25.70	-0.1	
			eSg	51 38.00		
	S.D. = 0.3	on 4 of 4 obs.				

& JAN 30, 1991 01h 14m 59.79s
57.826 N 156.512 W
DEPTH = 128.7km
3.9mb (1 obs.)

ALASKA PENINSULA (12)
<AEIC>.

MCNL	1.78	39 iP		15 30.05	-1.4	
			eS	15 53.62		
CDD	1.87	53 iP		15 31.39	-1.2	
			eS	15 56.19		
AUI	2.21	46 eP		15 35.62	-1.2	
AUH	2.23	45 eP		15 36.06	-1.0	
AUE	2.25	46 eP		15 36.08	-1.2	
PDB	2.31	31 iP		15 36.48	-1.5	
			eS	16 04.92		
SYI	2.32	68 iP		15 36.47	-1.6	
			eS	16 05.53		
HOM	3.13	52 eP		15 45.64	-3.1	
			eS	16 22.95		
RED	3.24	35 eP		15 48.52	-1.7	
CNPM	3.24	56 eP		15 48.61	-1.6	
			eS	16 25.14		
RS2	3.28	35 eP		15 50.01	-0.8	
RSO	3.28	35 eP		15 49.70	-1.2	
NCT	3.31	32 eP		15 49.48	-1.6	
REF	3.31	35 eP		15 49.71	-1.6	
RDN	3.32	34 eP		15 49.87	-1.4	
SVW	3.32	7 ePd		15 49.90	-1.4	
SDN	3.33	223 eP		15 49.90	-1.3	
RDT	3.47	36 eP		15 51.58	-1.7	
NNL	3.50	48 eP		15 53.27	-0.3	
BRLK	3.51	54 eP		15 51.98	-1.9	
			eS	16 29.62		
NKA	3.98	41 eP		16 02.02	2.0	
CKL	3.99	30 eP		15 59.63	-0.7	
BGL	4.04	30 iP		16 00.27	-0.6	
SPU	4.06	32 iP		16 00.09	-1.1	
CRP	4.10	31 eP		16 00.77	-1.1	
SLKM	4.21	48 eP		16 01.44	-1.7	
			eS	16 45.77		
SEW	4.31	55 iP		16 02.71	-1.7	
			eS	16 49.46		
SUA	4.68	36 eP		16 07.76	-1.8	
			eS	16 58.68		
SKT	4.86	29 eP		16 10.54	-1.4	
PMS	4.93	43 iP		16 10.43	-2.4	
MTU	5.08	61 eP		16 12.14	-2.7	
PWA	5.10	38 eP		16 13.20	-1.9	
TTA	5.13	3 ePc		16 14.20	-1.4	
KNIM	5.18	57 eP		16 13.27	-3.0	
PLRM	5.31	42 eP		16 13.22	-4.8	
PMR	5.31	42 eP		16 16.20	-1.8	
KNK	5.44	45 eP		16 16.81	-3.0	
GHO	5.51	41 eP		16 17.09	-3.7	
CUT	5.55	32 iP		16 18.82	-2.4	
GLI	5.71	54 eP		16 19.90	-3.5	
HIN	5.76	59 eP		16 21.65	-2.6	
VZW	6.02	53 eP		16 24.65	-3.2	
VLZ	6.15	53 eP		16 26.62	-2.9	
CVA	6.17	59 eP		16 26.50	-3.2	
SGAM	6.40	60 eP		16 29.85	-3.1	
TRF	6.42	26 eP		16 30.48	-2.8	
KLU	6.50	51 eP		16 30.97	-3.4	
RAGM	6.61	62 eP		16 33.25	-2.6	
TOA	6.73	46 eP		16 34.80	-2.7	
RND	6.74	31 eP		16 33.76	-3.9	
HMT	6.80	63 eP		16 35.28	-3.0	
MCK	6.99	29 eP		16 37.57	-3.3	
TZL	6.99	48 eP		16 39.23	-1.7	
SDG	7.22	45 eP		16 41.03	-3.0	
BWN	7.23	25 eP		16 40.40	-3.7	
GLB	7 39	55 eP		16 43.10	-3.2	
WAX	7.50	64 eP		16 44.78	-3.1	
PAX	7.51	42 eP		16 45.30	-2.8	
TGL	7.59	62 eP		16 46.24	-2.9	
NEA	7.66	25 eP		16 45.99	-4.0	
WRH	7.81	28 iP		16 47.72	-4.2	
WRG	7.81	67 eP		16 50.42	-1.6	
BALM	7.90	60 eP		16 50.17	-3.2	
CCB	8.02	28 eP		16 49.89	-4.9	
HDA	8.05	31 eP		16 50.56	-4.7	
RDS	8.09	26 eP		16 50.93	-4.8	
FBA	8.23	27 eP		16 52.90	-4.8	
CTGM	8.36	62 eP		16 56.71	-2.8	
IMA	8.38	8 ePd		16 58.10	-1.7	
GLM	8.40	27 eP		16 55.32	-4.7	
YKA	21.07	60 eP		19 32.70	-2.0	
	0.5s	3.00nm			3.9mb	
FRB	40.08	44 eP		22 21.00	-2.3	
	72 obs. associated					

JAN 30, 1991 01h 50m 18.58± 0.53s
39.574 N ± 5.0km 28.830 E ± 4.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.0 (ISK).

DST	0.16	281 iPg		50 21.10	-1.2	
KCT	0.77	332 ePg		50 33.00	-0.5	
			iSg	50 43.70		
BNT	1.05	318 iPg		50 38.10	-0.3	
			iSg	50 52.60		
EDC	1.07	316 iPn		50 39.00	0.3	
YLV	1.08	23 iPn		50 38.70	-0.2	
			iSg	50 53.20		
ALT	1.12	117 iPn		50 38.50	-1.2	
GBZT	1.30	21 ePn		50 42.50	-0.2	
GPA	1.34	57 ePn		50 44.00	0.7	
KHL	1.36	156 iPn		50 43.50	-0.2	
HRT	1.40	27 iPn		50 44.20	0.0	
ISK	1.50	7 ePn		50 46.70	1.2	
IZM	1.69	227 ePn		50 50.00	1.6	
EZN	1.95	278 iPn		50 51.90	-0.1	
DMK	2.39	340 ePn		51 01.80	3.4X	
	S.D. = 0.9	on 13 of 14 obs.				

? JAN 30, 1991 02h 14m 11.27± 7.81s
36.837 S ±68.0km 176.914 E ±19.5km
DEPTH = 33.0km (normal)
OFF E. COAST OF N. ISLAND, N.Z. (160)

HBZ	1.34	125 P		14 33.80	0.0	
WLZ	1.46	226 P		14 48.40	12.9X	
			S	15 17.50		
PUZ	1.63	140 P		14 37.80	-0.3	
			S	14 58.40		
NOZ	1.99	154 P		14 43.80	0.6	
WHH	2.07	189 P		14 50.00	5.5X	
MOH	2.30	175 P		14 50.70	3.1X	
PGZ	3.81	187 P		15 08.60	-0.4	
MNG	3.94	196 P		15 12.30	1.4	
			S	15 59.50		
KIW	4.31	201 P		15 17.20	1.0	
MTW	4.45	194 P		15 17.70	-0.5	
CAW	4.50	198 P		15 18.20	-0.7	
WDW	4.67	198 P		15 21.10	-0.1	
MOW	4.76	195 P		15 21.60	-0.9	
	S.D. = 0.9	on 10 of 13 obs.				

? JAN 30, 1991 02h 17m 53.57± 6.31s
39.726 N ±10.6km 30.875 E ±60.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

GPA	0.71	323 iPg		18 06.10	-1.5	
			iSg	18 15.10		
ALT	0.89	222 iPg		18 10.50	-0.3	
			iSg	18 21.50		
YLV	1.43	307 iPn		18 20.20	0.6	
HRT	1.43	320 iPn		18 20.20	0.6	
BBTK	1.46	85 eP		18 32.00	12.0X	
			eS	18 54.00		
DST	1.74	267 ePn		18 24.10	0.1	
ISK	1.93	315 ePn		18 27.20	0.5	
	S.D. = 1.1	on 6 of 7 obs.				

& JAN 30, 1991 04h 28m 54.68s
57.530 N 156.037 W
DEPTH = 66.8km
3.6mb (1 obs.)

ALASKA PENINSULA (12)
<AEIC>.

CNPM	3.22	49	eP	29 42.60	-1.3
			eS	30 17.32	
RS2	3.40	29	eP	29 44.46	-2.1
RSO	3.40	29	eP	29 44.47	-2.1
REF	3.43	29	eP	29 44.86	-2.2
NCT	3.44	27	eP	29 44.81	-2.3
RDN	3.44	28	eP	29 44.93	-2.2
BRLK	3.50	48	eP	29 44.75	-3.1
			eS	30 22.59	
NNL	3.53	42	eP	29 46.53	-1.7
RDT	3.58	30	eP	29 46.58	-2.5
CKL	4.14	26	eP	29 54.42	-2.5
BGL	4.18	25	eP	29 55.68	-1.9
SPU	4.19	27	eP	29 55.03	-2.6
SLKM	4.24	43	eP	29 54.98	-3.3
			eS	30 40.46	
SEW	4.29	50	eP	29 55.29	-3.6
			eS	30 40.49	
SUA	4.78	32	eP	30 02.75	-3.2
			eS	30 53.50	
PMS	4.98	39	eP	30 04.86	-3.8
			eS	30 56.04	
SKT	5.01	25	eP	30 06.20	-2.9
MTU	5.01	57	eP	30 05.26	-3.8
KNIM	5.14	53	eP	30 06.48	-4.4
PWA	5.18	35	eP	30 07.71	-3.7
PLRM	5.38	38	eP	30 10.47	-3.7
KNK	5.48	42	eP	30 11.14	-4.6
GHO	5.58	37	eP	30 12.69	-4.3
CUT	5.68	28	eP	30 14.70	-3.7
GLI	5.69	50	eP	30 13.76	-4.8
VZW	6.01	50	eP	30 18.33	-4.7
VLZ	6.14	50	eP	30 20.78	-4.0
KLU	6.50	48	eP	30 25.16	-4.7
TOA	6.76	43	eP	30 28.50	-5.0
GLB	7.35	53	eP	30 36.77	-4.9
TGL	7.52	59	eP	30 39.07	-5.0
BALM	7.84	58	eP	30 43.76	-4.7
CTGM	8.28	59	eP	30 49.72	-4.8
MDM	8.34	23	eP	30 48.65	-6.6
YKA	21.01	59	eP	33 28.30	-5.9
	0.4s		1.20nm		3.6mb
	35 obs. associated				

JAN 30, 1991 05h 09m 08.01± 1.45s
29.118 N ±10.5km 51.391 E ± 5.4km
DEPTH = 21.8 ± 12.2 km
4.5mb (11 obs.)
SOUTHERN IRAN (353)

DHR	3.01	202	eP	09 57.00	1.6
			iS	10 54.00	
RYD	6.11	225	iPc	10 38.80	-0.6
			iS	11 46.00	
KER	6.37	326	eP	10 47.00	3.9X
QASM	7.60	248	eP	10 58.00	-2.2
TAB	9.87	336	eP	12 22.00	50.1X
KMSA	10.72	217	iPc	11 40.00	-3.5X
QUE	13.57	82	eP	12 21.70	-0.2
			e(S)	16 44.20	
BADA	14.38	272	eP	12 34.30	2.0
BBTK	18.68	310	iPd	13 27.00	0.1
			e	16 56.00	
KHL	20.34	303	ePn	13 43.00	-2.6X
HRT	21.23	309	eP	13 49.00	-5.7X
YLV	21.32	308	eP	13 55.10	-0.5
NDI	22.60	85	eP	14 09.00	0.5
KSH	22.72	57	eP	14 04.00	-5.7X
VRI	25.59	318	eP	14 42.00	4.9X
MLR	25.86	316	eP	14 47.00	7.2X
CVO	25.89	317	eP	14 46.00	6.0X
HYB	27.47	109	eP	15 02.50	7.8X
GBA	28.65	117	P	15 05.00	-0.3
GKN	29.17	84	P	15 09.16	-1.0
DMN	29.65	85	P	15 14.00	-0.6
KKN	29.77	84	P	15 14.72	-0.9
PKI	29.92	85	P	15 16.00	-1.1
GUN	30.27	84	P	15 19.38	-0.8
KRA	31.65	320	eP	15 31.30	-0.4
KSP	34.08	319	eP	15 52.20	-0.6
KHC	35.01	315	eP	16 01.50	0.6
BRG	35.44	318	eP	16 07.60	3.1X
SOTA	35.91	311	iPc	16 05.50	-3.2X
	0.6s		9.50nm		4.9mb
			i	16 07.50	
			i	16 12.00	
			i	16 21.90	
CLL	36.16	319	e(P)	16 11.00	0.5
LPG	38.55	308	eP	16 33.40	2.3
	0.9s		5.75nm		4.3mb
LPL	38.57	308	eP	16 33.40	2.2
	0.9s		7.35nm		4.4mb
BCAO	39.64	238	ePd	16 41.10	1.0
	0.2s		4.00nm		4.8mb
HFS	40.04	332	eP	16 41.60	-1.2
	0.3s		4.70nm		4.7mb
SMF	40.73	309	eP	16 48.90	0.1
	0.9s		8.20nm		4.5mb
GTA	40.89	62	iPc	16 51.90	1.6
	0.8s		20.00nm		4.9mb
			pP	16 59.20	25kmX
SSF	41.02	309	eP	16 51.20	0.1
	1.2s		8.95nm		4.4mb
SOD	41.07	346	eP	16 52.00	0.7
NB2	41.56	332	P	16 53.40	-2.0
	0.8s		3.20nm		4.1mb
LDF	43.65	311	eP	17 08.30	-4.3X
GRR	44.11	311	eP	17 10.50	-5.8X
CHG	44.39	92	eP	17 23.30	4.3X
GYA	48.59	79	P	17 53.60	1.4
XAN	48.71	69	P	17 52.40	-0.6
TIY	50.89	63	eP	18 11.20	1.6
KIC	57.46	258	P	18 56.20	-1.7
LIC	57.77	258	P	18 58.70	-1.4
FRB	76.15	337	eP	20 54.00	-1.6
YKA	88.02	354	eP	21 57.20	-0.2
	0.6s		1.00nm		4.3mb
ASPA	95.09	114	iPc	22 32.60	1.8
	1.0s		3.10nm		4.7mb
	S.D. = 1.3		on 35 of 50 obs.		

• JAN 30, 1991 05h 51m 06.61± 1.18s
5.094 N ±12.5km 77.330 W ±19.5km
DEPTH = 33.0km (normal)
3.6mb (1 obs.)
NEAR WEST COAST OF COLOMBIA (102)

HOBC	1.40	122	ePc	51 29.25	-0.9
CLMC	1.43	148	eP	51 31.12	0.5
BUGC	1.60	138	eP	51 33.84	0.7
ANCC	1.63	164	eP	51 33.53	0.0
HOQC	1.76	157	eP	51 34.54	-0.9
DIAC	2.12	148	eP	51 41.44	0.9
SALC	2.20	163	eP	51 41.25	-0.5
UPA	4.44	331	eP	52 50.00	36.6X
YKA	63.50	342	eP	01 35.70	0.1
	0.6s		0.30nm		3.6mb
	S.D. = 0.8		on 8 of 9 obs.		

JAN 30, 1991 06h 30m 36.56± 0.80s
40.175 N ± 5.4km 34.001 E ± 6.3km
DEPTH = 20.7 ± 7.2 km
4.0mb (14 obs.)
TURKEY (366)

BBTK	1.01	251	iPc	30 55.00	-0.3
KVT	1.80	59	iPn	31 07.80	1.0
GPA	2.83	273	ePn	31 21.40	-0.1
ALT	3.21	251	iPn	31 26.70	-0.3
HRT	3.37	282	iPn	31 29.60	0.5
GBZT	3.53	281	ePn	31 31.50	0.1
BCK	3.80	226	iPn	31 35.10	-0.3
ISK	3.86	285	ePn	31 23.00	-13.2X
KHL	3.94	243	iPn	31 37.00	-0.3
DST	4.17	264	iPn	31 28.30	-12.3X
ELL	4.69	224	iPn	31 49.10	1.0
DMK	5.00	291	iPn	31 51.40	-0.9
CSS	5.23	186	eP	31 55.50	-0.1
EZN	5.90	269	iP	32 04.00	-1.0
TLB	6.24	317	eP	32 11.00	1.3
VRI	7.80	319	iPd	32 26.50	-5.1X
KSP	16.32	317	eP	34 29.50	3.5X
PRU	16.84	312	eP	34 32.50	0.0
KHC	17.03	308	eP	34 36.40	1.5
PGF	18.90	285	eP	35 08.10	9.9X
	0.9s		13.10nm		4.2mb
SBF	20.05	289	eP	35 19.40	8.3X
	0.8s		13.45nm		4.3mb
FRF	20.61	288	eP	35 21.50	4.5X
	0.8s		6.70nm		4.1mb
LPG	20.63	294	eP	35 18.40	1.0
	0.7s		3.85nm		3.9mb
LPL	20.64	294	eP	35 17.80	0.3
	0.7s		2.20nm		3.7mb
CDF	20.75	302	eP	35 17.70	-0.7
BSF	20.94	300	eP	35 20.10	-0.3
	1.0s		8.00nm		4.1mb
NUR	21.17	347	eP	35 28.00	5.5X
HAU	21.27	301	eP	35 24.00	0.4
	0.9s		8.20nm		4.1mb
KAF	22.46	351	iP	35 34.00	-1.4
LBF	22.70	297	eP	35 38.10	0.2
	1.0s		7.00nm		4.1mb
LOR	22.81	298	eP	35 41.00	2.0
	0.7s		3.85nm		4.0mb
SSF	23.03	298	eP	35 41.70	0.6
	0.9s		4.10nm		4.0mb
HFS	23.66	334	eP	35 47.00	-0.1
	0.4s		1.10nm		3.8mb
NB2	25.16	334	P	35 59.60	-2.0
	0.9s		2.20nm		3.8mb
BCAO	38.22	205	ePd	37 57.10	0.3
	0.3s		3.00nm		4.6mb
KIC	48.34	236	P	39 08.20	-10.5X
LIC	48.63	237	P	39 10.50	-10.4X
FRB	59.90	330	eP	40 41.50	-1.3
YKA	74.61	345	eP	42 15.60	0.2
	0.3s		0.20nm		3.6mb
	S.D. = 0.9		on 29 of 39 obs.		

JAN 30, 1991 07h 43m 42.94± 0.26s
64.394 N ± 4.3km 20.807 W ± 3.8km
DEPTH = 10.0km (geophysicist)
5.1mb (43 obs.) 4.6Msz (5 obs.)
ICELAND (63B)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 29C
Centroid Location:
Origin Time 07:43:53.1 1.1
Lat 64.54N 0.11 Lon 21.47W 0.18
Dep 15.0 FIX Half-duration 1.5
Moment Tensor; Scale 10**16 Nm
Mrr=-7.07 0.29 Mtt= 2.90 0.50
Mff= 4.17 0.41 Mrt= 3.37 1.22
Mrf= 1.47 1.49 Mtf= 3.24 0.32
Principal Axes:
T Val= 7.59 Plg=13 Azm=313
N 0.53 10 45
P -8.12 73 172
Best Double Couple:Mo=7.9*10**16
NP1:Strike= 29 Dip=33 Slip=-109
NP2: 231 59 -78

REY	0.54	242	iP	43 53.10	-0.8
AKU	1.73	40	iP	44 10.90	-2.3
	0.9s	961.34nm			
			iS	44 34.80	
ELO	11.55	125	eP	46 29.30	-1.5
	1.0s	189.00nm			6.4mb X
EAB	11.56	128	eP	46 28.70	-2.1
	1.0s	239.00nm			6.5mb X
EAU	12.13	127	eP	46 38.70	0.1
EDI	12.17	126	eP	46 38.60	-0.4
	1.2s	268.00nm			6.4mb X
EBL	12.33	126	eP	46 40.20	-1.1
ESK	12.64	128	ePd	46 46.00	0.6
	1.0s	240.00nm			6.4mb X
EKA	12.64	128	Pd	46 45.20	-0.2
	1.0s	136.50nm			6.1mb X
VAL	13.65	151	iP	47 00.20	1.6
			S	49 22.00	
ETA	13.94	140	eP	47 06.90	4.5X
	1.3s	430.00nm			6.1mb X
ECP	14.35	142	eP	47 06.70	-1.2
	1.7s	500.00nm			5.9mb X
NB2	14.96	BB	P	47 16.50	0.6
	1.8s	89.30nm			4.9mb
DBN	18.22	120	eP+	48 00.00	2.8X
Z	20s	3.20um			
WIT	18.24	117	eP	48 01.00	3.7X
UPP	18.32	87	iP	47 59.00	0.7
WTS	18.93	118	eP	48 06.50	0.7
	0.7s	17.00nm			4.4mb
			e	51 36.00	
KEV	18.93	53	eP	47 47.00	-18.8X
			e	51 46.00	
FLN	19.10	135	eP	48 08.60	0.6

30d 07h

	1.5s 224.60nm 5.2mb	KHC	23.84 113 iPc 48 58.10 1.4	GUN	72.00 63 P 55 08.66 -0.3
SOD	19.23 60 iP 48 08.20 -1.2		1.2s 18.00nm 4.5mb	XAN	74.27 42 P 55 21.80 0.2
GRR	19.32 137 eP 48 11.10 0.4		Z 16s 22.00um 5.7MszX	SOB1	74.95 201 eP 55 27.60 1.9
	1.7s 220.55nm 5.1mb		N 16s 1.50um	PDCR	77.95 198 eP 55 41.90 -0.6
LDF	19.36 135 eP 48 11.40 0.2		E 16s 2.40um		S.D. = 1.0 on 107 of 121 obs.
	1.3s 79.40nm 4.8mb		e 49 18.40		
ENN	19.57 122 eP 48 12.50 -1.1	EMS	23.89 127 ePc 48 58.50 1.1	?	JAN 30, 1991 07h 52m 01.06± 1.33s
	0.9s 27.00nm 4.5mb	LLS	23.95 123 ePc 48 59.10 1.2		52.288 N ±26.0km 160.619 E ±27.6km
	e 51 45.00	DIX	24.05 126 ePc 49 00.30 1.3		DEPTH = 33.0km (normal)
LPF	19.59 137 eP 48 14.10 0.3	RSL	24.12 128 P 49 00.22 0.7		4.3mb (4 obs.)
	1.4s 139.40nm 5.1mb	MMK	24.27 125 ePc 49 02.70 1.6		OFF EAST COAST OF KAMCHATKA (219)
BNS	19.89 119 iPc 48 16.00 -0.9	LPL	24.31 128 eP 49 01.30 -0.1		
	1.6s 246.00nm 5.3mb		1.3s 90.25nm 5.2mb	MAT	22.31 234 (P) 56 57.00 0.0
FRB	20.51 290 eP 48 21.00 -2.2	BTH	24.32 141 Pc 49 02.40 1.1	MBC	37.66 23 eP 59 14.00 -0.2
ABH	20.90 121 eP 48 27.17 -0.4		pP 49 12.00 35kmX		1.0s 5.00nm 4.3mb
KAF	20.94 75 iP 48 27.30 -0.5		(PPPP)50 00.00	YKA	43.54 42 eP 00 02.90 0.1
	0.3s 1.40nm 3.8mb X	LPG	24.33 128 eP 49 01.70 0.0		0.8s 0.60nm 3.4mb
NUR	21.02 80 iP 48 26.40 -2.1		1.6s 167.80nm 5.4mb	GKN	59.99 278 P 02 00.00 -6.8X
	1.0s 46.00nm 4.8mb	VDL	24.44 123 ePc 49 04.30 1.6	KAF	60.35 337 iP 02 08.90 0.3
	i 48 30.70	OSS	24.52 121 ePc 49 04.60 1.1		0.6s 5.70nm 4.9mb
	e 52 36.00	EPF	24.55 140 eP 49 02.50 -1.1	NUR	62.15 337 eP 02 08.00 -12.7X
MFF	21.14 138 eP 48 29.50 -0.5		1.4s 52.30nm 5.0mb	NB2	64.41 344 P 02 35.40 -0.3
	1.5s 188.05nm 5.2mb	SCH	24.60 269 eP 49 05.00 1.1		0.7s 1.70nm 4.3mb
GWF	21.67 122 P 48 35.01 -0.3	ORO	24.65 126 P 49 08.00 3.4X	GBA	75.21 273 P 03 46.00 3.9X
VITF	21.72 125 P 48 35.31 -0.4	BNI	24.69 128 P 49 08.50 3.4X		S.D. = 0.3 on 5 of 8 obs.
LOR	21.81 130 eP 48 35.80 -0.9	MDI	25.13 123 P 49 18.00 8.9X		
	1.2s 113.05nm 5.2mb	DOI	25.37 128 P 49 15.00 3.5X	•	JAN 30, 1991 08h 26m 01.28± 2.17s
MOX	21.87 114 eP 48 37.00 -0.2	SAL	25.58 122 P 49 19.00 5.7X		33.546 S ±13.0km 72.314 W ±14.5km
	2.0s 167.00nm 5.1mb	FVI	25.60 118 P 49 18.00 4.6X		DEPTH = 10.0km (geophysicist)
	eS 52 52.00	CTI	25.62 120 P 49 16.00 2.1		OFF COAST OF CENTRAL CHILE (134)
SSF	21.87 131 eP 48 36.70 -0.6	VKA	25.63 111 e(P) 49 12.00 -1.8		
	1.3s 139.00nm 5.2mb		3.0s 291.00nm 5.4mb	LCCH	0.63 84 iPd 26 14.00 0.1
CLL	21.91 111 iPc 48 39.40 1.8		i 49 54.60		iS 26 22.00
	2.0s 90.00nm 4.8mb	KRA	25.74 104 eP 49 13.60 -1.1	IHA	0.77 48 iPc 26 16.20 0.0
	Z 19s 2.00um 4.5Msz		Z 15s 4.20um 5.1MszX		iS 26 26.80
	eS 52 52.00		E 15s 3.60um	TACH	1.15 96 iPd 26 22.50 -0.4
LSF	21.96 135 eP 48 37.90 -0.3		e 49 19.00		iS 26 37.60
	1.7s 220.55nm 5.3mb	CKI	25.79 127 P 49 20.00 4.7X	ROCH	1.23 63 iPd 26 23.90 -0.5
CDF	22.02 123 P 48 38.33 -0.5	BOB	25.91 125 P 49 20.50 4.0X		iS 26 40.00
HAU	22.03 125 eP 48 39.10 0.2	SBF	26.00 129 eP 49 17.50 0.2	SAN	1.38 87 iPc 26 26.70 0.1
	1.5s 224.60nm 5.4mb		1.2s 59.50nm 5.2mb		iS 26 44.40
WLS	22.05 123 P 48 38.75 -0.3	FRF	26.00 130 eP 49 16.90 -0.4	PEL	1.42 74 iPc 26 27.40 0.2
AVF	22.06 132 eP 48 38.80 -0.4		1.1s 19.55nm 4.7mb	PCH	1.50 93 iPc 26 28.50 0.1
	1.5s 203.70nm 5.3mb	LRG	26.00 131 eP 49 17.40 0.2		iS 26 48.50
LBF	22.09 130 eP 48 39.00 -0.6		1.1s 34.20nm 5.0mb	JACH	1.68 60 iPc 26 30.40 -0.6
	1.4s 161.20nm 5.3mb		Z 18s 0.45um 4.0Msz		iS 26 52.60
BGF	22.10 133 eP 48 39.20 -0.4	LMR	26.16 131 eP 49 18.50 -0.2	FCH	1.71 83 iPc 26 31.50 0.0
ECH	22.14 124 P 48 40.00 0.0		0.9s 16.40nm 4.7mb		iS 26 54.20
TCF	22.14 134 eP 48 39.60 -0.4	TOL	26.44 150 iPc 49 22.00 0.6	RTCV	3.60 63 e(P) 27 02.00 3.7X
	1.7s 275.70nm 5.4mb		1.4s 93.02nm 5.3mb	RTLL	3.93 57 iPd 27 04.00 1.0
MAF	22.31 133 eP 48 41.40 -0.3	SPC	26.53 105 eP 49 24.50 2.2	RTRS	4.15 37 ePd 27 06.30 0.3
	1.4s 161.20nm 5.3mb	SRO	26.80 109 eP 49 25.80 2.2	LPB	17.36 14 P 30 06.00 0.3
BSF	22.33 125 P 48 41.98 0.0	PTJ	27.41 115 i(P)c 49 29.30 -0.9	ZOBO	17.61 13 P 30 08.40 -0.6
SMF	22.35 131 eP 48 41.80 -0.2	MBC	30.80 332 eP 50 01.00 0.8		S.D. = 0.5 on 13 of 14 obs.
MOF	22.44 124 P 48 42.70 -0.4		1.5s 16.00nm 4.7mb		
GRF	22.46 116 iPd 48 43.30 0.1	YKA	38.34 312 eP 51 04.00 -1.0	•	JAN 30, 1991 09h 36m 34.40± 2.05s
	1.2s 75.00nm 5.0mb		1.2s 6.20nm 4.2mb		2.030 S ±12.9km 128.397 E ±16.1km
	Z 18s 1.10um 4.3Msz	INK	39.31 327 eP 51 13.00 0.0		DEPTH = 71.7 ± 22.9 km
	eS 53 00.00	FFC	39.44 296 eP 51 14.00 -0.2		4.7mb (3 obs.)
BRG	22.63 110 iP 48 44.80 0.0		1.2s 32.00nm 4.9mb		CERAM SEA (270)
	1.6s 75.00nm 4.9mb	FBA	45.33 331 eP 52 02.70 0.6		
	i 48 48.80	IMA	45.44 335 eP 52 05.10 1.9	AAI	1.66 187 iPd 37 02.50 0.5
	i 49 03.00	SES	46.30 298 eP 52 13.00 2.9X		iS 37 14.50
	eS 53 02.00	TAB	46.66 91 eP 52 14.00 0.8	MKS	9.45 250 iPd 38 50.10 -0.1
FEL	22.74 123 P 48 45.27 -0.8	PNT	50.40 303 eP 52 45.00 3.1X	MTN	11.08 166 eP 39 11.00 -1.3
LOMF	22.76 125 P 48 45.63 -0.5		0.6s 4.00nm 4.5mb		eS 41 11.00
BBS	22.90 124 P 48 47.59 0.0	MEO	54.04 276 e(P) 53 10.30 1.0	OIS	21.42 150 eP 41 19.00 0.7
LFF	22.91 138 eP 48 47.90 0.3	ALO	57.28 283 eP 53 34.00 1.0	ASPA	22.16 167 iPd 41 26.10 0.4
	1.4s 230.90nm 5.5mb		1.3s 9.13nm 4.6mb		0.9s 12.90nm 4.4mb
SLE	23.00 122 ePc 48 49.20 0.6		Z 18s 1.37um 5.1Msz		e 41 32.70
ZLA	23.21 123 ePc 48 51.50 1.0	WMO	58.56 54 eP 53 41.40 -0.3		i 41 41.30
LPO	23.28 137 eP 48 51.30 0.1		Z 15s 0.40um 4.7MszX		iS 45 23.90
	1.6s 174.15nm 5.4mb	TIC	58.74 162 P 53 41.02 -2.0	WHN	35.05 339 eP 43 24.00 1.6
CAF	23.32 136 eP 48 51.10 -0.5	KIC	59.06 161 P 53 43.36 -1.9	MAT	39.45 12 (P) 43 59.00 -0.3
	1.9s 211.35nm 5.4mb		1.0s 7.50nm 4.8mb	TIY	42.22 341 eP 44 21.40 -0.7
WET	23.55 114 iPc 48 54.30 0.4	LIC	59.15 162 P 53 44.08 -1.8	LZH	44.30 331 eP 44 39.00 -0.1
PRU	23.55 111 Pc 48 54.50 0.7	BCAO	66.16 136 iPc 54 31.10 -1.4		2.0s 36.00nm 4.8mb
	Z 17s 2.50um 4.7MszX		0.5s 5.00nm 5.0mb	GTA	48.88 331 eP 45 14.70 -0.4
	N 14s 2.30um	BJI	70.54 34 eP 54 59.00 -0.4		1.0s 10.00nm 4.8mb
	E 15s 1.80um		Z 16s 0.41um 4.8MszX	WMO	58.39 326 P 46 24.50 -0.4
	e 49 12.20	LZH	70.85 45 eP 55 02.00 0.3	ARV	109.68 316 PKPd 55 08.20 9.3X
	S 53 12.00		5.0s 290.00nm 5.7mb X		eSg 55 12.50
KSP	23.62 107 ePc 48 55.40 1.0		pP 55 11.00 29kmX		S.D. = 0.9 on 11 of 12 obs.
	1.4s 74.00nm 5.1mb	GKN	71.44 64 P 55 04.76 -0.5		
	i 49 10.40	TIY	71.79 37 eP 55 07.90 0.8	•	JAN 30, 1991 10h 25m 34.03± 0.63s
FUR	23 72 118 iPc 48 56.80 1.3		Z 20s 0.50um 4.8Msz		14.538 S ±14.1km 167.509 E ±18.3km
SSB	23.78 131 P 48 56.56 0.4	KKN	71.88 64 P 55 07.64 -0.4		DEPTH = 33.0km (normal)

VANUATU ISLANDS (186)

DZM	7.56	188	iPc	27	24.50	-0.3
RMQ	21.18	233	eP	30	19.00	0.0
CHG	75.21	294	eP	37	14.80	-0.9
ISA	85.85	52	eP	38	12.00	0.0
SBB	86.00	53	eP	38	13.00	0.3
PLM	86.29	54	eP	38	14.00	-0.4
CLC	86.57	52	eP	38	15.00	-0.5
NPA	120.98	242	ePKP	44	43.00	17.3X
	0.5s		30.00nm			
			e(Pg)	44	49.00	
			e	45	29.10	
			e(Sg)	45	32.20	
BCAO	147.84	255	iPKPd	45	17.10	1.9
	0.3s		6.00nm			

S.D. = 1.0 on 8 of 9 obs.

% JAN 30, 1991 10h 50m 47.86± 0.86s
38.442 N ± 6.0km 23.887 E ±11.8km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 2.9 (ATH).

ATH	0.49	196	ePb	50	57.50	-0.3
NEO	1.01	329	ePn	51	07.20	0.3
VLI	1.88	204	ePn	51	19.40	-0.9
APE	1.89	136	ePn	51	21.00	0.5
PLG	1.96	350	ePn	51	21.00	-0.5
ITM	2.00	232	ePb	51	23.00	0.9

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

JAN 30, 1991 11h 17m 02.90± 0.36s
7.317 S ± 7.1km 106.729 E ± 8.1km
DEPTH = 33.0km (normal)
5.0mb (9 obs.)
JAVA (277)

IPM	13.12	334	ePc	20	16.10	6.5X
MBL	18.71	139	iPd	21	20.80	-0.2
			eS	24	32.00	
AAI	21.67	82	eP	21	55.40	2.6
MEKA	22.23	151	eP	21	58.00	-0.4
			eS	25	51.00	
KHT	23.39	340	eP	22	10.50	0.7
CGP	23.79	49	eP	22	17.00	3.3X
WARB	26.68	137	eP	22	41.00	0.1
CHG	27.08	344	eP	22	44.30	-0.3
CHTO	27.08	344	eP	22	44.30	-0.3
	1.0s		8.00nm		4.3mb	
ASPA	30.72	125	iPd	23	16.70	-0.7
	0.5s		5.90nm		4.6mb	
			eS	29	23.60	
GYA	33.57	360	P	23	43.20	0.9
KOD	33.96	301	eP	23	48.50	2.5
OIS	34.43	116	eP	23	50.00	0.3
GBA	35.75	305	P	24	01.80	0.9
CD2	38.11	356	P	24	20.40	-0.3
LSA	39.74	339	eP	24	34.20	-0.6
PKI	40.35	330	P	24	38.68	-1.1
GUN	40.41	331	P	24	39.68	-0.5
DMN	40.53	330	P	24	40.38	-0.8
KKN	40.60	330	P	24	40.78	-0.8
NJ2	40.82	16	Pc	24	46.30	3.2X
GKN	41.09	330	P	24	44.88	-0.7
XAN	41.18	3	P	24	46.20	0.1
POO	41.37	309	eP	24	48.00	0.1
LZH	43.26	357	Pd	25	04.00	0.8
	1.5s		28.00nm		4.8mb	
TIY	45.11	6	eP	25	18.80	0.8
NDI	45.73	323	iPc	25	23.00	0.1
	0.8s		111.94nm		5.8mb	
GTA	46.93	353	Pc	25	33.20	0.7
	1.0s		20.00nm		5.1mb	
BJI	47.92	10	eP	25	42.00	1.9
	0.6s		13.00nm		5.1mb	
BRS	47.93	120	iPd	25	41.50	1.0
SNY	51.28	16	eP	26	05.20	-0.6
	1.0s		10.00nm		4.7mb	
MAT	52.68	32	eP	26	15.00	-1.5
QUE	53.36	316	eP	26	22.00	0.2
CN2	53.63	17	iPc	26	22.70	-0.6
	0.8s		50.00nm		5.6mb	
			PcP	27	29.00	
WMO	53.74	343	P	26	24.00	-0.2
YAMJ	54.86	32	P	26	31.70	-0.8
OFUJ	56.39	32	P	26	42.30	-1.2
NPA	66.43	257	eP	27	57.80	6.1X
VRI	88.29	316	eP	29	57.00	4.6X
BCAO	88.77	275	ePc	29	56.00	0.6
	0.4s		5.00nm		5.2mb	
			id	30	17.10	
KAF	91.95	332	eP	30	09.70	0.6
NUR	92.42	331	eP	29	54.00	-17.3X
SOD	92.90	338	eP	30	13.00	-0.4
YKA	117.25	20	ePKP	35	44.50	-1.6
	0.5s		1.10nm			
PNT	122.94	34	ePKP	35	58.00	0.6
	0.6s		4.00nm			
SOB1	143.80	244	ePKP	36	36.30	-1.2
TUL	144.86	33	iPKPc	36	37.40	-1.3
	0.8s		30.74nm			
BAO	146.13	228	ePKPd	36	42.00	0.5

S.D. = 1.0 on 42 of 48 obs.

? JAN 30, 1991 11h 27m 16.84± 4.51s
43.841 N ±21.8km 7.044 E ±23.9km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
ML 2.0 (GEN).

STV	0.45	27	P	27	25.65	-0.4
			S	27	34.61	
ENR	0.47	35	P	27	26.26	-0.2
			S	27	34.57	
IMI	0.61	83	P	27	28.91	-0.4
			S	27	39.52	
PZZ	0.66	4	P	27	30.23	0.1
ROB	0.75	52	P	27	32.42	0.9
			S	27	43.76	
FIN	0.92	66	P	27	34.36	0.0

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

& JAN 30, 1991 11h 28m 09.73s
61.562 N 149.947 W
DEPTH = 49.2km
SOUTHERN ALASKA (2)
<AEIC>. ML 3.5 (PMR). Felt (III) at Butte, Chugiak, Eagle River and Palmer.

PWA	0.09	20	iP	28	17.31	1.5
PMS	0.37	150	iP	28	19.60	0.0
PLRM	0.39	85	iP	28	19.12	-0.6
			eS	28	27.51	
PMR	0.39	85	iPd	28	19.50	-0.2
SUA	0.39	256	iP	28	19.92	0.0
			eS	28	28.35	
GHO	0.53	66	iP	28	20.69	-0.8
			eS	28	30.18	
KNK	0.73	101	iP	28	23.46	-0.5
			eS	28	34.64	
SML	0.81	71	eP	28	24.21	-0.8
CUT	0.86	350	iP	28	24.79	-0.9
SKT	0.86	300	iP	28	24.80	-1.0
			eS	28	37.10	
NKA	1.03	218	eP	28	28.95	0.9
SLKM	1.07	187	eP	28	27.52	-1.1
			eS	28	41.99	
SPU	1.08	250	iP	28	28.20	-0.7
			eS	28	43.55	
CRP	1.10	255	eP	28	28.87	-0.4
CKL	1.21	253	iP	28	29.82	-0.8
BGL	1.21	257	iP	28	29.97	-0.7
			eS	28	46.78	
HUR	1.43	6	iP	28	32.82	-0.8
			eS	28	50.78	
SEW	1.48	170	eP	28	33.01	-1.4
GLI	1.54	115	eP	28	33.35	-1.9
			eS	28	52.76	
RDT	1.55	231	iP	28	34.28	-1.2
			eS	28	54.83	
KNIM	1.63	137	iP	28	33.75	-2.7
NNL	1.66	204	eP	28	36.88	0.0
VZW	1.71	106	iP	28	35.91	-1.8
REF	1.72	232	iP	28	36.82	-1.1
			eS	28	59.68	
RDN	1.73	234	iP	28	36.61	-1.4
RSO	1.76	232	iP	28	37.36	-1.1
RS2	1.76	232	eP	28	37.31	-1.2
			eS	28	59.41	
NCT	1.76	237	iP	28	37.47	-1.0
			iS	29	00.22	
RED	1.79	231	eP	28	37.84	-1.0
VLZ	1.79	102	eP	28	36.83	-1.9
BRLK	1.86	195	eP	28	38.10	-1.7
			eS	29	02.97	
TOA	1.87	71	iPc	28	39.90	0.0
RND	1.92	15	eP	28	39.48	-1.2
KLU	1.93	90	iP	28	38.88	-1.9
MTU	1.94	144	iP	28	38.49	-2.4
HIN	2.05	123	eP	28	40.11	-2.3
HOM	2.09	204	eP	28	42.64	-0.2
CNPM	2.14	198	eP	28	43.25	-0.4
TZL	2.20	75	eP	28	43.63	-0.9
MCK	2.23	12	eP	28	44.57	-0.4
CVA	2.28	115	iP	28	43.14	-2.5
SDG	2.29	63	eP	28	44.69	-1.1
PAX	2.53	54	eP	28	48.31	-0.9
SGAM	2.54	113	iP	28	46.47	-2.9
PDB	2.74	231	eP	28	50.21	-2.0
SVW	2.77	263	iPc	28	51.00	-1.7
RAGM	2.83	112	eP	28	50.75	-2.7
GLB	2.94	90	eP	28	52.23	-2.9
HMT	3.03	111	eP	28	52.99	-3.4
TTA	3.15	298	iPc	28	56.10	-2.1
HDA	3.16	24	eP	28	57.23	-1.0
SYI	3.20	204	iP	28	57.63	-1.2
CDD	3.22	217	eP	28	57.75	-1.3
CCB	3.25	17	eP	28	58.45	-0.9
RDS	3.38	13	eP	28	58.89	-2.4
F8A	3.49	15	eP	29	01.40	-1.5
MDM	3.50	12	eP	29	00.92	-2.1
TGL	3.54	100	eP	29	00.63	-3.1
GLM	3.63	17	eP	29	03.71	-1.2
WAX	3.63	105	eP	29	01.61	-3.3
TMW	3.68	58	eP	29	04.11	-1.5
BALM	3.71	95	eP	29	02.43	-3.6
CTGM	4.20	94	eP	29	10.22	-2.8
IMA	4.82	342	eP	29	19.00	-2.7

64 obs. associated

• JAN 30, 1991 11h 28m 30.24± 1.13s
45.216 N ±12.4km 141.888 E ± 7.1km
DEPTH = 272.8 ± 13.3 km
4.5mb (15 obs.)
HOKKAIDO, JAPAN REGION (224)

MDJ	8.75	270	Pd	30	34.50	0.8
	1.0s		150.00nm		5.0mb	X
MAT	9.10	199	eP	30	37.00	-1.2
	0.5s		26.06nm		4.5mb	
			(S)	32	17.00	
CN2	11.83	269	eP	31	11.50	-0.6
SNY	13.71	262	Pc	31	35.50	0.3
	0.6s		20.00nm		4.6mb	
BJI	19.58	264	eP	32	38.50	-0.7
HHC	22.52	270	P	33	08.60	0.5
TIY	23.22	262	eP	33	14.50	-0.2
BTO	23.71	270	eP	33	21.00	1.8
WHN	26.05	245	eP	33	42.00	1.5
LZH	30.04	266	Pd	34	15.70	-0.4
	1.5s		28.00nm		4.6mb	
GTA	31.38	274	eP	34	27.80	0.0
	0.6s		30.00nm		5.1mb	
CD2	32.92	258	P	34	40.40	-0.6
WMO	38.06	288	P	35	24.50	0.4
BRW	38.85	27	eP	35	29.90	-0.2
SVW	39.02	43	eP	35	33.60	1.8
IMA	39.62	35	eP	35	36.10	-0.6
	0.7s		7.10nm		4.2mb	
PMR	42.06	42	eP	35	57.50	1.0
FBA	42.15	37	ePc	35	57.20	0.0
	0.7s		15.80nm		4.5mb	
CHG	44.20	248	eP	36	14.00	-0.2
GUN	47.23	268	P	36	38.30	0.1
GKN	48.05	269	P	36	44.30	0.0
YKA	56.64	33	eP	37	45.40	-1.5
	0.8s		3.60nm		3.9mb	
PNT	62.19	47	eP	38	25.00	0.2
	0.6s		4.00nm		4.2mb	
NEW	64.14	47	eP	38	38.20	0.7
	1.0s		3.00nm		4.0mb	
SES	65.75	42	ePc	38	47.50	-0.3
FFC	66.70	35	iPc	38	53.50	-0.1
	0.9s		19.00nm		4.8mb	
HFS	66.82	335	eP	38	51.80	-2.4
	0.5s		2.10nm		4.1mb	
LRM	68.15	47	eP	39	02.50	-0.5
FRB	68.74	14	ePc	39	04.80	-1.2
	0.6s		31.00nm		5.2mb	

30d 11h

TNP	70.79	55	iP	39	20.00	0.9
	1.0s	8.75nm			4.4mb	
BW06	71.76	47	iP	39	25.20	0.4
	0.8s	13.39nm			4.7mb	
RSSD	73.56	43	eP	39	35.50	0.4
	1.0s	6.51nm			4.3mb	
S.D. = 1.0 on 32 of 32 obs.						

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* JAN 30, 1991 12h 29m 15.84± 1.30s
6.118 S ± 8.6km 130.499 E ±20.2km
DEPTH = 141.7 ± 12.8 km
5.0mb (6 obs.)
BANDA SEA (280)

AAI	3.33	316	ePc	30	07.90	0.1
			eS	30	38.00	
MTN	6.71	175	iPc	30	52.20	-1.0
KNA	9.72	190	eP	31	31.70	-1.8
	0.3s	131.00nm			6.1mb	X
			eS	33	14.00	
CGP	15.59	338	eP	32	51.80	2.6
QIS	16.86	149	iPc	33	04.00	-0.8
			iS	35	59.20	
ASPA	17.75	170	iPd	33	16.60	0.9
	0.4s	53.70nm			5.2mb	
			eS	36	22.70	
MBL	18.18	214	eP	33	20.70	0.3
WARB	20.29	190	iPc	33	44.10	1.7
MEKA	23.36	208	eP	34	15.00	2.4
FORR	24.71	185	iPc	34	26.00	0.7
BDT	38.83	307	eP	36	28.30	-0.4
	0.6s	35.70nm			5.3mb	
CHG	39.76	309	ePc	36	37.10	0.6
	0.8s	20.34nm			4.9mb	
XAN	44.86	334	P	37	17.10	-0.6
GTA	53.45	331	P	38	23.40	-0.1
	0.6s	10.00nm			4.9mb	
GUN	54.75	310	P	38	33.00	-0.6
PKI	54.94	310	P	38	34.04	-0.8
KKN	55.15	310	P	38	35.50	-0.7
DMN	55.19	310	P	38	36.06	-0.5
GKN	55.75	310	P	38	39.86	-0.6
GBA	56.20	291	Pd	38	41.80	-1.9
	0.8s	3.50nm			4.4mb	
WMO	62.93	326	P	39	30.00	0.6
	0.5s	10.00nm			5.0mb	
LPB	150.93	141	PKP	48	58.00	9.4X
ZOBO	151.11	141	PKP	49	05.00	15.9X
S.D. = 1.3 on 21 of 23 obs.						

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* JAN 30, 1991 12h 57m 45.96± 1.41s
51.661 N ±27.2km 167.769 W ±13.0km
DEPTH = 33.0km (normal)
4.0mb (2 obs.)
FOX ISLANDS, ALEUTIAN ISLANDS (9)

ADK	5.54	276	eP	59	06.30	-1.9
KLU	15.47	42	eP	01	22.50	-0.6
TOA	15.68	40	eP	01	26.10	0.3
FBA	16.81	30	eP	01	39.50	-0.5
INK	23.41	32	eP	02	53.00	0.7
YKA	29.97	48	eP	03	57.20	4.2X
	0.4s	0.40nm			3.6mb	
PNT	30.29	75	eP	03	55.00	-1.0
NB2	67.65	1	P	08	41.20	0.0
	0.7s	2.20nm			4.4mb	
GUN	77.93	300	P	09	43.80	1.2
KKN	78.35	300	P	09	45.60	0.9
PKI	78.45	300	P	09	46.80	1.4
GKN	78.53	301	P	09	45.20	-0.4
S.D. = 1.1 on 11 of 12 obs.						

% JAN 30, 1991 13h 08m 11.60± 0.51s
42.764 N ± 4.8km 19.173 E ± 4.1km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.0 (TTG).

NKY	0.14	291	iPgd	08	15.14	0.2
			iSg	08	17.91	
TTG	0.34	169	iPgd	08	18.56	-0.1
			iSg	08	24.27	
BRY	0.48	287	iPgd	08	21.17	-0.3
			iSg	08	28.72	
BDV	0.54	208	iPgd	08	22.67	0.1
			iSg	08	30.41	
IVA	0.54	78	iPgd	08	22.86	0.2
PLE	0.59	16	iPgd	08	23.56	0.0
HCY	0.59	238	iPgc	08	23.66	0.1
PVY	0.61	106	iPgd	08	23.79	-0.3
S.D. = 0.2 on 8 of 8 obs.						

? JAN 30, 1991 14h 25m 35.07± 5.73s
33.503 S ±16.1km 72.259 W ±40.4km
DEPTH = 10.0km (geophysicist)
OFF COAST OF CENTRAL CHILE (134)

LCCH	0.58	87	iPd	25	47.00	0.3
			iS	25	55.00	
IHA	0.70	48	iPc	25	49.20	0.3
			iS	25	59.20	
TACH	1.11	98	iPd	25	55.50	-0.5
			iS	26	10.50	
ROCH	1.17	63	iPd	25	56.70	-0.4
			i	26	08.10	
			iS	26	12.50	
SAN	1.34	88	iP	25	59.90	0.2
			iS	26	17.10	
PEL	1.37	75	iPc	26	00.30	0.1
			iS	26	19.00	
PCH	1.46	95	iPc	26	01.50	-0.1
			i	26	23.50	
JACH	1.62	60	iPd	26	03.50	-0.4
			iS	26	26.00	
FCH	1.66	84	iPc	26	05.10	0.5
			iS	26	28.00	
RTCV	3.54	63	e(P)	26	36.00	4.8X
RTLL	3.87	57	e(P)	26	40.10	4.2X
RTRS	4.09	36	e(P)	26	41.30	2.4X
S.D. = 0.4 on 9 of 12 obs.						

& JAN 30, 1991 17h 50m 14.60s
56.369 N 153.197 W
DEPTH = 10.0km (geophysicist)
4.3mb (1 obs.)
KODIAK ISLAND REGION (13)
<AEIC>. ML 3.5 (PMR).

SYI	2.29	11	eP	50	47.71	-5.2
			eS	51	15.21	
MCNL	2.89	348	eP	50	56.03	-5.5
AUI	2.98	358	eP	50	57.52	-5.2
AUH	3.01	358	eP	50	58.40	-4.8
XLV	3.19	14	eP	51	00.84	-4.9
CNPM	3.33	17	iP	51	02.51	-5.3
PDB	3.47	352	eP	51	03.18	-6.5
BRLK	3.62	19	eP	51	05.94	-5.9
NNL	3.82	14	eP	51	09.02	-5.7
RS2	4.11	3	eP	51	13.26	-5.7
REF	4.14	3	eP	51	13.50	-5.9
RDN	4.16	3	eP	51	13.80	-5.9
NCT	4.21	2	eP	51	14.07	-6.2
SEW	4.24	26	eP	51	13.68	-6.9
RDT	4.24	5	eP	51	14.25	-6.4
SLKM	4.44	19	eP	51	16.92	-6.5
NKA	4.51	12	eP	51	21.66	-2.7
CKL	4.86	5	eP	51	23.46	-6.2
SPU	4.86	7	eP	51	23.01	-6.6
SVW	4.92	346	eP	51	24.30	-6.0
BGL	4.93	5	eP	51	24.79	-5.7
PMS	5.24	20	eP	51	28.02	-6.9
PMR	5.64	20	eP	51	33.50	-7.0
TTA	6.73	349	eP	51	49.40	-6.6
TOA	6.78	29	eP	51	50.60	-6.1
IMA	9.74	359	eP	52	29.60	-8.2
MBC	23.46	20	eP	55	21.00	-3.4
	1.0s	9.00nm			4.3mb	
27 obs. associated						

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* JAN 30, 1991 17h 55m 05.44± 6.94s
38.777 S ± 7.9km 175.320 E ±21.6km
DEPTH = 33.0km (normal)
NORTH ISLAND, NEW ZEALAND (159)

WLZ	0.96	13	P	55	22.60	0.0
MNG	1.84	176	Pc	55	37.00	1.7
			S	56	04.30	
PGZ	1.98	158	P	55	36.80	-0.5
KIW	2.11	188	P	55	40.40	1.3
CAW	2.34	185	P	55	42.90	0.6
MTW	2.38	177	P	55	42.50	-0.5
MRW	2.50	191	P	55	44.90	0.3
WDW	2.50	186	P	55	44.50	-0.2
WEL	2.54	189	P	55	45.30	0.1
TCW	2.56	198	P	55	46.10	0.6
BLW	2.59	177	P	55	45.00	-0.9
MOW	2.64	181	P	55	45.80	-0.9
KHZ	3.88	200	P	56	02.50	-1.7
S.D. = 1.0 on 13 of 13 obs.						

& JAN 30, 1991 18h 02m 44.13s
59.850 N 152.645 W
DEPTH = 88.6km
3.1mb (1 obs.)
SOUTHERN ALASKA (2)
<AEIC>.

RED	0.57	354	eP	02	58.83	-0.9
			eS	03	11.29	
XLV	0.61	130	eP	02	58.90	-1.0
RSO	0.62	355	iP	02	59.50	-0.7
			eS	03	11.84	
RS2	0.62	355	iP	02	59.54	-0.7
			eS	03	11.80	
AUH	0.63	220	eP	02	59.59	-0.6
			eS	03	12.08	
REF	0.64	357	iP	02	59.76	-0.7
			eS	03	12.02	
AUI	0.65	218	eP	02	59.51	-0.8
			eS	03	11.11	
RDN	0.67	355	iP	03	00.01	-0.6
			eS	03	12.70	
NNL	0.71	74	iP	03	01.17	0.4
NCT	0.73	349	iP	03	00.42	-0.7
			eS	03	13.27	
RDT	0.74	9	iP	03	00.34	-0.9
			eS	03	13.58	
PDB	0.78	266	iP	03	00.78	-0.8
			eS	03	13.53	
CNPM	0.79	114	iP	03	00.95	-0.7
			eS	03	13.92	
BRLK	0.89	95	iP	03	02.00	-0.8
			eS	03	15.82	
MCNL	1.09	233	iP	03	03.95	-1.1
			eS	03	18.91	
NKA	1.14	37	iP	03	06.86	1.2
SYI	1.25	174	iP	03	06.40	-0.6
			eS	03	23.91	
CKL	1.36	6	iP	03	08.07	-0.5
			eS	03	26.64	
SPU	1.37	12	iP	03	08.09	-0.5
			eS	03	26.24	
SLKM	1.38	60	eP	03	07.94	-0.8
BGL	1.42	5	eP	03	08.59	-0.8
CRP	1.44	9	eP	03	08.91	-0.7
SEW	1.63	80	eP	03	11.19	-0.6
SUA	1.87	29	eP	03	14.93	-0.3
SVW	1.94	312	eP	03	14.90	-1.2
PMS	2.07	46	iP	03	17.32	-0.5
SKT	2.21	14	eP	03	18.78	-0.8
PWA	2.26	36	eP	03	19.94	-0.4
PLRM	2.46	43	eP	03	21.51	-1.5
KNIM	2.51	76	iP	03	21.39	-2.3
MTU	2.52	85	eP	03	22.34	-1.5
KNK	2.59	51	iP	03	23.15	-1.7
CUT	2.81	23	eP	03	27.30	-0.5
GLI	2.94	67	eP	03	26.75	-3.0
VZW	3.25	65	eP	03	31.38	-2.6
KLU	3.70	61	iP	03	37.76	-2.4
YKA	18.35	65	eP	06	51.20	-2.6
	0.4s	0.50nm			3.1mb	
37 obs. associated						

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* JAN 30, 1991 18h 08m 52.82± 0.91s
24.191 N ± 8.8km 125.368 E ±10.8km
DEPTH = 33.0km (normal)
4.4mb (8 obs.)
SOUTHWESTERN RYUKYU ISLANDS (246)

TWC	3.24	278	eP	09	43.60	1.1
			eS	10	31.40	
TWD	3.45	269	eP	09	44.90	-0.6
TWF1	3.82	258	ePc	09	49.00	-1.8
			eS	10	31.00	
TWG	4.17	252	ePc	09	53.90	-1.9
CVP	7.25	208	eP	10	40.00	0.8
SSE	7.81	333	eP	10	46.70	-0.3
E	18s	0.60um				
			pP	10	51.00	
MAT	16.54	39	eP	12	49.00	5.1X
TIY	17.43	324	Pd	12	56.00	0.9

	Z	12s	0.70um			
	N	12s	0.40um			
SNY		17.65	356 Pc	12	58.80	1.1
		0.8s	20.00nm		4.3mb	
	Z	17s	0.35um		4.1MszX	
CN2		19.56	0 Pd	13	19.00	-1.8
HHC		20.24	328 eP	13	27.20	-0.9
CD2		20.28	294 P	13	27.80	-0.7
LZH		22.02	308 eP	13	47.00	0.8
		1.0s	20.00nm		4.5mb	
	Z	16s	0.49um		4.0MszX	
			sP	14	00.00	
CHG		25.14	263 eP	14	17.90	1.3
GTA		26.37	311 eP	14	26.80	-1.2
		1.0s	10.00nm		4.4mb	
			pP	14	32.40	20kmX
			sP	14	37.00	
GUN		35.57	285 P	15	50.08	0.5
PKI		36.00	284 P	15	53.34	0.1
KKN		36.10	284 P	15	54.34	0.4
DMN		36.27	284 P	15	55.84	0.4
WMO		36.45	312 Pd	15	56.30	-0.3
GKN		36.66	285 P	15	58.84	0.3
NDI		43.12	287 eP	16	52.00	0.1
WRA		44.73	168 P	17	14.00	9.1X
		0.7s	5.60nm		4.5mb	
WRA		44.73	168 P	17	21.00	16.1X
		0.8s	3.40nm			
GBA		46.36	266 P	17	30.00	12.1X
		0.2s	0.50nm			
KOD		47.58	262 eP	17	30.40	2.4X
MAIO		57.20	299 eP	18	41.00	1.7
IMA		64.49	27 ePc	19	32.10	3.7X
PMR		66.91	31 eP	19	34.80	-8.9X
TOA		68.21	30 eP	19	57.70	5.7X
SOD		71.21	336 iP	20	10.60	0.4
INK		71.77	23 eP	20	17.00	3.5X
KAF		73.02	331 eP	20	20.90	0.0
		0.5s	4.60nm		4.7mb	
NUR		74.33	330 eP	20	28.80	0.3
HFS		79.4	332 eP	20	58.00	1.1
		0.4	1.40nm		4.3mb	
NB2		79.9	333 P	21	00.50	0.5
		0.9s	6.60nm		4.6mb	
KRA		81.09	321 eP	21	17.20	11.2X
YKA		81.45	24 eP	21	05.40	-2.3
		0.5s	1.10nm		4.1mb	
FRB		91.68	6 eP	22	10.00	12.3X
	S.D. = 1.1		on 28 of 39 obs.			

• JAN 30, 1991 18h 11m 22.36± 0.92s
31.421 S ±10.8km 67.752 W ±12.5km
DEPTH = 10.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL		0.62	278 ePd	11	34.60	-0.3
RTCV		0.80	237 ePc	11	33.90	-4.0X
RTRS		1.93	310 eP	11	59.70	4.2X
JACH		2.72	242 iPc	12	08.50	1.5
			iS	12	42.50	
PEL		3.02	235 iPc	12	11.00	-0.1
			i	12	12.50	
			iS	12	50.00	
ROCH		3.17	240 eP	12	13.50	0.1
			iS	12	56.00	
SAN		3.19	230 eP	12	14.50	1.0
			i	12	56.50	
PCH		3.20	226 eP	12	14.00	0.2
			iS	12	57.00	
CYA		3.42	30 e(P)	12	18.00	1.2
TACH		3.49	230 iPc	12	16.00	-1.8
			iS	13	05.50	
LCCH		3.82	237 eP	12	22.60	0.1
ANT		8.04	342 eP	13	34.50	12.5X
CNCB		14.55	359 eP	14	50.00	-0.8
			e	14	58.00	
LPB		14.83	359 P	15	04.70	10.4X
ZO8O		15.09	359 P	15	02.80	5.0X
YKA		100.84	340 ePdiff	25	44.20	32.0X
		0.6s	0.50nm			
HYB		146.45	107 ePKP	31	03.50	-1.0
	S.D. = 1.1		on 11 of 17 obs.			

JAN 30, 1991 18h 19m 43.93± 1.27s
45.076 N ±10.5km 2.999 E ± 8.0km
DEPTH = 10.0km (geophysicist)
FRANCE (538)

ML 2.1 (LDG).

LBL		0.24	48 Pg	19	48.42	-0.5
			Sg	19	51.62	
PYM		0.67	1 Pg	19	56.62	-0.8
			Sg	20	05.32	
CAF		0.68	258 Pg	19	56.50	-0.9
			Sg	20	05.40	
			Sn	20	08.30	
PLDF		0.99	26 Pg	20	02.44	-0.4
			Sg	20	15.57	
RJF		1.07	283 Pg	20	03.80	-0.3
			Sg	20	18.60	
MAF		1.18	345 Pg	20	05.90	-0.1
			Sg	20	21.40	
TCF		1.33	336 Pg	20	08.70	0.2
			Sg	20	26.50	
LPO		1.35	254 Pg	20	09.60	0.9
			Sn	20	24.10	
			Sg	20	27.40	
LSF		1.56	319 Pg	20	12.30	0.5
			Sg	20	32.30	
SMF		1.68	20 Pg	20	14.90	1.5
			Sg	20	35.90	
LOR		2.27	15 Pg	20	26.20	4.1X
			Sg	20	54.90	
	S.D. = 0.9		on 10 of 11 obs.			

JAN 30, 1991 19h 09m 19.64± 0.93s
38.476 S ± 6.8km 176.212 E ± 5.8km
DEPTH = 162.9 ± 8.5 km
NORTH ISLAND, NEW ZEALAND (159)

HITZ		0.42	236 P	09	42.00	-0.2
HATZ		0.43	193 Pd	09	41.60	-0.6
WHH		0.46	152 Pd	09	41.50	-1.0
RATZ		0.52	221 P	09	42.60	-0.3
KETZ		0.76	215 P	09	44.60	0.3
WLZ		0.80	322 P	09	45.00	0.6
			S	10	00.80	
NGZ		0.85	214 P	09	45.20	0.3
CNZ		0.89	215 P	09	45.30	0.1
MOH		0.98	132 P	09	45.90	0.1
TTH		1.17	156 Pd	09	47.80	0.5
NOZ		1.44	96 P	09	49.90	0.0
PUZ		1.66	77 Pd	09	51.90	-0.3
			S	10	12.10	
HBZ		1.87	63 P	09	54.60	0.2
PGZ		2.14	179 P	09	58.00	0.5
MNG		2.21	195 iPc	09	58.90	0.5
			S	10	25.60	
KIW		2.59	202 P	10	03.30	0.4
MTW		2.74	191 Pc	10	04.70	0.0
CAW		2.77	198 P	10	05.40	0.2
WDW		2.94	198 P	10	07.10	-0.2
8LW		2.94	191 P	10	07.20	-0.1
MRW		2.99	202 P	10	07.80	0.0
			S	10	42.40	
WEL		3.02	201 P	10	08.20	0.0
MOW		3.03	194 P	10	08.10	-0.3
TCW		3.11	208 P	10	09.50	0.1
KHZ		4.43	207 P	10	26.10	-0.4
LTZ		5.24	214 P	10	36.80	-0.5
	S.D. = 0.4		on 26 of 26 obs.			

JAN 30, 1991 19h 42m 52.73± 0.25s
37.180 N ± 4.5km 42.605 E ± 3.3km
DEPTH = 16.9km (6 depth phases)
4.7mb (26 obs.) 4.5Msz (3 obs.)
TURKEY (366)
Felt at Siirt, Sirnok, Mordin and Hakkari.

TAB		3.08	72 ePc+	43	42.80	1.1
GAZ		4.31	272 iPn	43	57.50	-1.5
KER		4.62	126 iPc	44	05.30	1.7
RUWJ		5.63	215 Pc	44	19.40	1.6
KVT		6.41	309 eP	44	38.00	9.2X
BHL		6.54	242 P	44	30.00	-0.7
			S	46	25.00	
TEH		7.22	99 eP	44	57.00	16.8X
GLH		7.24	234 eP	44	40.30	0.0
BURJ		7.46	231 P	44	43.30	-0.2
MML		7.57	233 eP	44	45.00	0.0
MDSJ		7.63	225 P	44	44.90	-0.9
KFNJ		7.80	229 Pc	44	48.20	0.1
CSS		7.83	256 eP	44	48.50	-0.1
JVI		7.95	231 eP	44	50.40	0.1
BBTK		8.16	292 ePn	44	52.00	-1.4
			i	45	24.00	
PPCY		8.62	258 eP	44	52.50	-7.1X
PRNI		9.30	225 eP	45	08.40	-0.6
BCK		9.58	275 eP	45	15.00	2.1
HOL		10.11	221 ePc	45	20.70	0.6
ELL		10.17	271 eP	45	28.00	6.9X
BADA		10.74	219 eP	45	28.30	-0.4
OASM		11.08	176 ePc	45	24.90	-8.6X
WAJH		12.11	207 ePc	45	49.70	2.3
RYD		12.88	163 ePd	45	54.60	-3.2X
			iS	48	15.00	
VRI		14.71	311 eP	46	30.00	8.4X
MLR		15.00	309 eP	46	36.00	10.4X
CMP		15.47	307 ePc	46	38.00	6.3X
VAY		16.06	291 eP	46	43.40	4.2X
SKO		16.99	293 eP	46	54.70	3.6X
	Z	13s	4.84um			
	E	13s	5.31um			
			iS	50	22.00	
			LR	54	01.00	
OHR		17.36	290 eP	46	56.50	0.8
BMR		17.53	313 ePd	47	01.00	3.3X
BZS		17.82	305 eP	47	05.00	3.6X
BEO		18.34	302 eP	47	07.00	-0.8
UZD		20.14	305 e(P)	47	29.00	0.4
BUD		20.17	308 e(P)	47	28.00	-1.0
TIH		20.69	306 eP	47	24.00	-10.3X
SRO		20.74	308 iP	47	33.80	-1.0
KRA		20.75	315 eP	47	33.50	-1.5
			e	47	37.00	13km
			e	47	46.10	
QUE		21.39	102 eP	47	43.50	1.6
ZST		21.64	309 eP	47	43.10	-0.9
PTJ		21.69	302 eP	47	44.70	0.1
VBY		22.07	301 eP	47	49.80	1.5
VKA		22.15	308 e(P)	47	51.00	1.9
SDI		22.64	290 P	47	57.00	3.0X
LJU		22.69	302 e(P)	47	57.00	2.6X
CEY		22.69	301 e(P)	47	56.00	1.5
AZI		22.93	291 P	48	02.00	5.2X
VOY		23.12	302 e(P)	47	55.70	-3.1X
KSP		23.18	314 ePc	48	00.70	1.5
		1.2s	38.00nm		4.8mb	
			ic	48	05.20	16km
MNS		23.51	292 P	48	07.00	4.5X
ASS		23.57	294 P	48	08.00	4.9X
PRU		23.86	311 P	48	07.00	1.2
		2.5s	78.40nm		4.8mb	
	Z	15s	1.00um		4.4MszX	
			e	48	32.00	119kmX
			e	49	39.00	
			S	52	26.00	
FVI		23.99	302 P	48	10.00	2.9X
KHC		24.15	309 Pd	48	09.30	0.6
		1.2s	17.00nm		4.5mb	
BHG		24.19	305 eP	48	10.30	1.2
		1.7s	120.00nm		5.2mb	
SFI		24.22	296 P	48	14.00	4.7X
BRG		24.55	313 eP	48	13.40	0.9
		1.1s	19.00nm		4.6mb	
			e	48	38.00	116kmX
			eS	52	44.00	
WET		24.59	309 eP	48	13.70	0.7
CTI		24.65	301 P	48	16.00	2.3
MME		25.08	296 P	48	22.00	4.1X
BDI		25.14	296 P	48	22.00	3.7X
SQTA		25.18	303 iPd	48	17.90	-0.8
		0.8s	30.30nm		5.0mb	
			i	48	32.90	64kmX
			e	49	24.00	
OGA		25.23	303 iPc	48	21.70	2.4
CLL		25.27	313 eP	48	18.00	-1.3
			i	48	22.90	17km
GRF		25.79	309 eP	48	22.40	-1.9
			e	48	29.50	25km
			e(S)	53	05.00	
MOX		25.85	311 eP	48	27.00	2.2
	Z	18s	1.10um		4.4Msz	
			eS	53	10.00	
NUR		25.99	340 iP	48	28.00	2.0
		0.7s	26.70nm		5.0mb	
			e	59	16.00	
BOB		26.02	297 P	48	31.00	4.4X
PGF		26.24	292 eP	48	28.30	-0.3
		1.4s	82.75nm		5.2mb	

30d 19h

KAF	26.93	343	eP	48 34.90	0.2
SBF	27.41	295	eP	48 37.60	-1.6
	1.0s	34.00nm			5.0mb
UPP	27.77	333	iP	48 43.00	0.8
LPG	27.99	299	eP	48 42.40	-2.4
	0.8s	5.35nm			4.4mb
LPL	28.00	299	eP	48 42.70	-2.1
	1.0s	9.00nm			4.5mb
BNI	28.01	298	P	48 46.50	1.7
WTS	29.13	312	eP	49 01.00	6.4X
	1.0s	13.00nm			4.7mb
HFS	29.44	331	eP	48 56.20	-1.1
	0.5s	3.60nm			4.4mb
Z	17s	0.46um			4.2MszX
		LR	59	21.00	
LBF	30.03	301	eP	49 00.20	-2.6X
	0.8s	4.05nm			4.3mb
NDI	30.13	96	eP	49 03.00	-0.8
SSF	30.36	301	eP	49 03.10	-2.5X
	1.0s	8.00nm			4.5mb
AVF	30.44	301	eP	49 04.20	-2.1
	1.0s	9.00nm			4.6mb
NB2	30.96	330	P	49 10.60	-0.3
	0.9s	6.70nm			4.5mb
TCF	31.20	300	eP	49 10.70	-2.4X
	0.9s	4.90nm			4.4mb
SOD	31.57	348	iP	49 15.30	-0.8
LFF	32.21	297	eP	49 19.80	-2.2
	0.8s	6.70nm			4.6mb
KEV	33.71	350	eP	49 28.00	-6.6X
WMO	34.58	65	P	49 42.50	-0.1
N	15s	0.80um			
		eS	55	06.50	
EKA	35.69	315	P	49 53.00	1.2
	1.1s	19.50nm			4.9mb
GKN	36.33	92	P	49 56.98	-0.8
DMN	36.88	92	P	50 02.24	-0.2
KKN	36.94	92	P	50 02.18	-0.7
PKI	37.13	92	P	50 04.14	-0.6
HYB	37.22	112	eP	50 05.40	0.3
GUN	37.36	91	P	50 05.88	-0.8
IFR	38.78	279	iP	50 20.00	1.7
GBA	38.92	118	P	50 20.70	1.4
LSA	40.83	86	P	50 34.60	-1.0
GTA	44.31	69	eP	51 03.10	-0.4
	1.2s	10.00nm			4.6mb
Z	16s	0.60um			4.6MszX
		pP	51	06.70	12km
LZH	48.38	72	eP	51 30.20	-5.6X
	1.5s	40.00nm			5.2mb
Z	20s	0.49um			4.5Msz
N	12s	0.34um			
		sP	51	46.50	
CD2	50.30	78	eP	51 51.00	0.6
BTO	51.42	64	eP	52 00.00	1.1
CHG	52.25	94	eP	52 04.30	-1.0
CHTO	52.25	94	eP	52 04.30	-1.0
	1.8s	19.37nm			4.7mb
KIC	52.84	247	P	52 08.06	-1.6
TIC	52.85	247	P	52 08.20	-1.6
XAN	53.01	72	P	52 09.60	-1.3
LIC	53.14	247	P	52 10.16	-1.7
BDT	53.15	96	eP	52 10.00	-2.0
TIY	54.20	67	eP	52 21.00	1.4
Z	20s	0.70um			4.7Msz
N	15s	0.30um			
BJI	56.01	63	eP	52 31.00	-1.6
NNT	56.39	100	eP	52 37.00	1.4
WHN	58.66	74	eP	52 55.00	3.6X
CN2	60.85	55	eP	53 05.50	-0.8
Z	17s	1.50um			5.2MszX
		epP	53	11.00	18km
IPM	62.31	106	ePc	53 16.30	-0.3
FRB	65.75	333	eP	53 37.00	-1.3
MBC	66.27	355	eP	53 38.50	-3.0X
	1.0s	12.00nm			5.0mb
INK	74.79	359	ePc	54 33.70	0.6
YKA	78.99	349	eP	54 56.50	-0.2
	0.9s	3.60nm			4.4mb
FFC	83.54	340	eP	55 22.00	1.2
	0.8s	13.00nm			5.2mb
SES	89.75	343	eP	55 53.00	1.6
ASPA	104.88	108	iPdiff	57 09.10	8.9X
	0.4s	5.40nm			5.8mb X
S.D. = 1.3 on 87 of 121 obs.					

? JAN 30, 1991 19h 53m 40.85± 0.95s
45.969 N ±19.6km 144.580 E ±19.0km
DEPTH = 33.0km (normal)
4.1mb (1 obs.)
HOKKAIDO, JAPAN REGION (224)

MAT	10.56	209	eP	56 13.00	0.0
BJI	21.54	264	eP	58 54.50	25.5X
Z	12s	0.36um			4.0MszX
IMA	37.91	36	eP	00 56.70	0.3
FBA	40.41	37	eP	01 17.20	0.2
GUN	49.13	270	P	02 27.14	-0.5
KKN	49.62	270	P	02 32.84	1.5
PKI	49.67	270	P	02 29.72	-2.1
DMN	49.85	270	P	02 34.24	1.1
GKN	49.94	271	P	02 40.02	6.4X
YKA	54.98	34	eP	03 10.10	-0.5
	0.6s	1.30nm			4.1mb
NB2	66.86	337	P	04 45.60	14.3X
	0.5s	0.70nm			
S.D. = 1.3 on 8 of 11 obs.					

& JAN 30, 1991 20h 06m 39.49s
58.155 N 136.914 W
DEPTH = 0.0km
4.0mb (2 obs.)
SOUTHEASTERN ALASKA (19)
<AEIC>, ML 4.3 (PMR).

PLBC	1.34	12	iP	07 02.90	-2.2
SIT	1.39	141	ePc	07 04.00	-2.1
YKU	2.03	315	eP	07 14.90	-0.4
HYT	2.70	354	eP	07 23.00	-2.0
WHC	2.75	19	eP	07 23.80	-1.9
			eS	08 03.00	
TCBC	3.00	92	eP	07 27.00	-2.4
			eS	08 12.00	
DLB	3.63	83	eP	07 36.30	-1.9
			eS	08 32.00	
BQB	3.77	105	eP	07 38.00	-2.2
			eS	08 37.00	
BALM	4.00	319	eP	07 40.10	-3.4
KLU	5.64	310	eP	08 02.00	-4.8
VZW	5.69	305	eP	08 02.00	-5.5
MUB	5.90	77	eP	08 07.80	-2.5
DWY	6.04	349	eP	08 09.50	-2.8
TOA	6.09	314	eP	08 12.10	-0.9
PMR	7.05	304	eP	08 27.70	1.3
INK	10.30	7	P	09 09.50	-2.1
	0.7s	2.10nm			4.7mb X
IMA	11.12	322	eP	09 19.60	-3.3
YKA	11.85	59	eP	09 28.80	-3.8
	0.5s	0.70nm			4.3mb
MBC	19.23	13	eP	11 04.50	-2.8
	1.0s	6.00nm			3.8mb
19 obs. associated					

• JAN 30, 1991 20h 22m 46.95± 1.38s
12.313 S ±12.8km 165.959 E ±10.9km
DEPTH = 59.8 ± 11.4 km
4.6mb (4 obs.)
SANTA CRUZ ISLANDS (184)

HNR	6.56	295	eP	24 23.00	-0.1
SVO	6.81	297	eP	24 26.00	-0.5
VSG	6.85	296	eP	24 27.00	-0.1
SVA	13.37	117	eP	25 56.10	0.5
RMQ	21.46	226	eP	27 27.00	-5.3X
COO	22.36	213	eP	27 42.00	0.8
ASPA	32.43	245	eP	29 12.00	-1.7
	1.0s	7.00nm			4.4mb
WARB	39.43	244	eP	30 10.00	-3.1X
MAT	55.19	333	eP	32 16.00	0.1
MDJ	65.56	332	eP	33 25.00	-1.4
CN2	66.93	329	eP	33 35.60	0.4
TIY	70.63	317	eP	33 59.00	0.7
HHC	72.93	320	eP	34 12.00	0.0
CHTO	72.93	294	eP	34 15.00	2.8
	1.0s	3.00nm			4.2mb
CD2	73.53	308	P	34 19.80	4.2X
BTO	73.77	319	eP	34 17.90	1.0
LZH	75.76	312	eP	34 32.50	4.0X
	1.5s	20.00nm			4.8mb
			pP	34 41.00	27kmX
GTA	80.08	314	eP	34 53.00	0.9
	1.0s	10.00nm			4.7mb
			pP	34 57.00	13kmX
GUN	87.11	299	P	35 29.16	0.8
PKI	87.43	299	P	35 30.00	0.1
KKN	87.59	299	P	35 30.76	0.2
DMN	87.70	299	P	35 30.92	-0.1
GKN	88.20	299	P	35 33.18	-0.2
WMO	90.13	315	P	35 42.00	0.0
PGF	143.84	331	ePKP	42 14.10	-3.3X
	0.9s	16.40nm			
FRF	144.11	334	ePKP	42 15.00	-2.7X
	1.0s	18.00nm			
LRG	144.32	334	ePKP	42 15.80	-2.2X
	1.4s	65.35nm			
LMR	144.35	334	ePKP	42 15.90	-2.2X
	1.2s	29.75nm			
RJF	144.54	341	ePKP	42 16.70	-1.7
	7.6s	23.80nm			
CAF	144.70	340	ePKP	42 17.10	-1.6
	1.7s	20.85nm			
LFF	145.11	342	ePKP	42 18.30	-1.1
	3.6s	26.80nm			
SOB1	145.80	127	ePKP	42 23.20	1.7X
			e	42 28.60	
			e	42 37.10	
BCAO	146.86	259	iPKPd	42 23.30	0.1
	0.8s	14.00nm			
			ic	43 04.10	
EPF	146.95	340	ePKP	42 20.70	-1.8X
	6.1s	13.05nm			
GUD	150.47	345	ePKP	42 33.00	4.8X
S.D. = 1.1 on 24 of 35 obs.					

• JAN 30, 1991 21h 25m 09.83± 1.00s
6.066 S ±10.0km 149.232 E ± 8.8km
DEPTH = 88.7 ± 14.6 km
4.6mb (1 obs.)
NEW BRITAIN REGION (192)

YYYY	3.25	267	eP	26 00.00	0.2
RAB	3.47	58	iPc	26 02.50	-0.2
			iS	26 19.00	
PMG	3.91	212	eP	26 06.00	-2.7X
QIS	17.17	212	eP	29 05.60	0.0
RMQ	20.32	181	iPc	29 40.10	-1.0
BRS	21.48	171	iP	29 53.00	0.2
ASPA	22.89	219	iPd	30 06.90	0.2
	0.8s	22.50nm			4.6mb
			iS	34 13.90	
DZM	23.02	135	iPd	30 08.80	0.7
MAT	43.62	347	eP	33 07.00	-0.1
LZH	59.72	318	e(P)	35 22.00	14.2X
	2.3s	41.00nm			
			sP	35 36.00	
GUN	69.77	303	P	36 00.00	-13.2X
CNCB	136.75	122	ePKP	44 07.00	-18.4X
LPB	136.79	122	(PKP)	44 02.00	-23.3X
			e	45 05.00	
ZOBO	136.89	121	ePKP	44 06.00	-19.6X
S.D. = 0.7 on 8 of 14 obs.					

• JAN 30, 1991 21h 49m 47.45± 0.71s
52.775 N ±13.2km 160.604 E ±14.2km
DEPTH = 33.0km (normal)
4.3mb (8 obs.)
OFF EAST COAST OF KAMCHATKA (219)

MAT	22.60	233	eP	54 48.00	1.8
	0.8s	11.19nm			4.4mb
MBC	37.22	23	eP	56 57.50	0.7
	0.9s	6.00nm			4.5mb
YKA	43.19	43	eP	57 46.00	-0.3
	1.0s	1.70nm			3.7mb
SOD	55.31	340	eP	59 32.00	12.5X
FRB	57.68	23	eP	59 36.00	-0.4
CHG	58.14	259	eP	59 41.00	0.8
GUN	59.24	277	P	59 47.38	-0.8
KKN	59.69	277	P	59 50.70	-0.4
PKI	59.77	277	P	59 51.18	-0.7
KAF	59.90	337	iP	59 52.00	0.1
	0.5s	5.40nm			4.9mb
GKN	59.92	278	P	59 52.06	-0.6
DMN	59.92	277	P	59 52.34	-0.5
NUR	61.69	337	eP	59 59.00	-5.1X
NB2	63.94	344	P	00 18.70	-0.3
	0.6s	1.30nm			4.2mb
HFS	64.35	342	eP	00 21.00	-0.6
	0.5s	1.40nm			4.3mb
HYB	71.55	275	ePc	01 06.90	-0.3
CLL	72.76	339	eP	01 16.00	2.2

```
GBA     75.17 273 P      01 28.50   0.2
WRA     75.92 205 P      01 31.00  -1.3
        1.5s      2.20nm          3.9mb
ASPA    79.60 205 eP     01 52.80   0.2
        0.8s      5.50nm          4.6mb
     S.D. = 1.0  on  18 of  20 obs.
-------------------------------------------
   JAN  30, 1991  22h 58m 36.88± 0.86s
   44.947 N ± 5.0km     7.371 E ±10.7km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                    (545)
      ML 2.0 (GEN), 2.0 (LDG).

RSP     0.22 339 P       58 42.40   0.7
RRL     0.42 267 P       58 45.13  -0.3
                 S       58 49.15
PZZ     0.48 204 P       58 47.32   0.6
                 S       58 53.53
LSD     0.53 344 P       58 47.73   0.0
                 S       58 54.19
STV     0.70 183 P       58 49.07  -1.8
LPG     0.70 322 Pg      58 50.50  -0.5
                 Sg      58 58.30
ENR     0.72 177 P       58 50.15  -1.0
LPL     0.73 322 Pg      58 50.90  -0.4
                 Sg      58 59.40
ROB     0.74 151 P       58 52.14   0.7
SBF     1.08 178 Pg      59 03.90   6.6X
                 Sg      59 21.10
FRF     1.48 201 Pg      59 06.50   2.9X
                 Sg      59 25.70
LRG     1.66 206 Pg      59 08.10   2.0
                 Sg      59 28.40
     S.D. = 1.2  on  10 of  12 obs.
-------------------------------------------
   JAN  30, 1991  23h 39m 04.55± 0.53s
   43.135 N ± 6.3km     0.537 W ± 4.1km
   DEPTH =  10.0km  (geophysicist)
 PYRENEES                          (378)
      ML 2.4 (LDG).

OGE     0.06  54 Pg      39 07.69   0.9
ESCF    0.06 206 Pg      39 07.11   0.2
                 Sg      39 09.10
ATE     0.13 248 Pg      39 07.85   0.1
                 Sg      39 10.06
JAU     0.16 128 Pg      39 08.42   0.2
                 Sg      39 11.38
MADF    0.21 273 Pg      39 09.36   0.3
                 Sg      39 12.81
ISSF    0.22 241 Pg      39 12.94   3.6X
LHE     0.23 196 Pg      39 09.29  -0.3
BOH     0.35 265 Pg      39 11.47  -0.3
                 Sg      39 16.80
EPF     0.65  99 Pg      39 17.40  -0.2
                 Sg      39 27.30
LPO     1.99  38 Pg      39 42.80   4.2X
                 Sg      40 08.90
LFF     2.03  27 Pg      39 43.30   4.2X
                 Sg      40 10.30
CAF     2.59  45 Pn      39 46.40  -0.9
                 Sg      40 27.80
     S.D. = 0.6  on   9 of  12 obs.
-------------------------------------------
?  JAN  30, 1991  23h 42m 16.25± 1.63s
   28.043 N ±36.3km    55.957 E ±16.6km
   DEPTH =  33.0km  (normal)
   4.6mb (  3 obs.)
 SOUTHERN IRAN                     (353)

OUE     9.85  75 eP      44 41.00   2.2
HYB    23.33 112 eP      47 24.00   1.5
GKN    25.30  83 P       47 40.90  -0.7
DMN    25.76  84 P       47 45.80  -0.2
KKN    25.89  84 P       47 46.20  -1.0
       0.6s     13.00nm          4.7mb
PKI    26.03  84 P       47 47.00  -1.6
GUN    26.40  83 P       47 51.20  -0.8
       0.8s     36.00nm          5.0mb
KHC    38.60 315 eP      49 38.50   0.6
HFS    42.92 330 eP      50 12.50  -0.7
       0.4s      1.00nm          3.9mb
FRB    78.69 338 eP      54 17.00   0.7
YKA    89.46 356 eP      55 22.50  11.6X
       0.6s      0.30nm
     S.D. = 1.4  on  10 of  11 obs.
-------------------------------------------
?  JAN  31, 1991  00h 05m 09.19± 4.57s
    4.951 N ±48.3km    76.242 W ±35.7km
   DEPTH = 110.0km  (geophysicist)
 COLOMBIA                          103)
      MD 3.2 (UVC).

HOBC    0.60 170 iPd     05 26.81  -0.3
                 eS      05 38.50
BUGC    1.05 181 eP      05 32.07   0.7
CLMC    1.11 197 eP      05 32.52   0.5
                 eS      05 48.50
HOOC    1.52 195 eP      05 36.91  -0.1
                 eS      05 56.10
ANCC    1.56 204 eP      05 36.50  -0.6
DIAC    1.65 178 eP      05 37.84  -0.6
SALC    2.02 193 eP      05 43.30   0.2
                 eS      06 07.40
     S.D. = 0.6  on   7 of   7 obs.
-------------------------------------------
*  JAN  31, 1991  00h 08m 47.32± 1.12s
   34.855 N ±10.3km   124.036 E ±12.8km
   DEPTH =  33.0km  (normal)
   4.1mb (  4 obs.)
 YELLOW SEA                        (665)

SSE     4.45 213 Pn      09 54.50   0.3
     Z  12s      0.50um
                 Pg      10 10.00
                 Sn      10 43.50
                 Sg      11 05.00
DL2     4.48 335 Pn      09 54.00  -0.6
                 Pg      10 12.50
                 Sg      11 05.50
NJ2     5.15 239 Pnd     10 04.00  -0.2
                 Pgd     10 23.00
                 Sg      11 30.00
TIA     5.80 285 ePn     10 13.70   0.4
                 ePg     10 34.00
                 Sg      11 50.00
SNY     6.97 357 ePn     10 28.50  -1.2
                 Sg      12 25.00
BJI     8.11 312 P       10 50.50   4.8X
                 S       12 25.00
CN2     9.00   7 eP      11 00.40   2.4
MDJ    10.64  22 eP      11 20.00  -0.5
XAN    12.51 271 eP      11 44.40  -1.4
LZH    16.50 280 eP      12 42.50   4.5X
       1.3s     24.00nm          4.2mb
     Z  14s      0.25um          4.3MszX
                 sP      12 50.00
GYA    17.11 245 P       12 51.20   5.5X
CD2    17.48 263 P       12 50.60   0.4
GTA    19.82 290 eP      13 19.60   1.5
       0.6s     20.00nm          4.6mb
SOD    61.08 334 eP      18 49.00 -10.9X
NB2    70.02 331 P       19 56.60  -0.8
       0.7s      1.30nm          4.1mb
YKA    72.23  25 eP      20 10.30  -0.4
       0.6s      1.30nm          4.1mb
SLR   108.67 251 iPKPc   27 03.00 -11.9X
     S.D. = 1.2  on  12 of  17 obs.
-------------------------------------------
&  JAN  31, 1991  00h 39m 06.80s
   36.040 N          121.548 W
   DEPTH =  10.0km
 CENTRAL CALIFORNIA                ( 39)
      <BRK>. ML 3.5 (BRK).
      Mo=4.9•10••14 Nm (BRK).

PRS     0.32  26 iPd     39 13.30  -0.2
PRI     0.72  82 iPd     39 20.77  -0.3
                 iS      39 30.65
SAO     0.73   7 iPd     39 20.43  -0.7
                 eS      39 32.60
LLA     0.75  40 iPd     39 21.47  -0.1
                 eS      39 33.15
                 i       39 33.77
GCC     1.05 340 iPc     39 25.31  -1.3
                 iS      39 40.32
                 i       39 41.53
                 i       39 42.21
PKEM    1.17  89 eP      39 28.20  -0.4
MHC     1.30 357 iPd     39 30.20  -0.8
                 iS      39 49.10
ARN     1.31   1 eP      39 29.80  -1.2
BCH     1.47 125 eP      39 31.40  -2.0
PCC     1.60 336 ePd     39 33.11  -2.1
                 i       40 00.01
BLP     1.75 147 eP      39 41.00   3.6
FRI     1.76  57 e(P)    39 36.93  -0.6
                 e       39 37.93
                 i       39 59.68
BKS     1.91 343 eP      39 37.60  -2.1
BRK     1.92 343 eP      39 37.40  -2.4
ZSP     1.98 344 iPd     39 38.82  -1.9
                 e       40 11.47
CMB     2.20  25 iPc     39 43.00  -0.9
                 iS      40 10.00
ABL     2.24 121 eP      39 42.30  -2.4
BONR    3.23  53 eP      40 00.50   1.7
     18 obs. associated
-------------------------------------------
%  JAN  31, 1991  00h 43m 02.04± 1.07s
   38.677 N ±10.7km    27.984 E ± 8.5km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      MD 3.1 (ISK).

IZM     0.63 244 iPg     43 14.60  -0.1
                 eSg     43 25.60
DST     1.05  28 iPg     43 20.80  -1.1
EDC     1.67 357 ePn     43 32.00   0.6
BNT     1.68 358 ePn     43 31.00  -0.6
ALT     1.70  77 ePn     43 32.00   0.0
EZN     1.72 312 iPn     43 32.30   0.1
YLV     2.17  29 ePn     43 40.00   1.2
     S.D. = 0.9  on   7 of   7 obs.
-------------------------------------------
*  JAN  31, 1991  01h 03m 12.54± 1.59s
   45.696 N ±14.9km    14.124 E ± 6.7km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                        (383)
      MD 1.9 (LJU).

CEY     0.22  78 e(Pg)   03 17.40   0.1
                 eSg     03 21.40
TRI     0.25 273 iPgc    03 17.30  -0.6
                 iSg     03 21.40
VOY     0.37 334 iPg     03 19.40  -0.8
                 eSg     03 24.50
LJU     0.45  39 e(Pg)   03 21.50  -0.2
                 eSg     03 28.00
FVI     1.30 314 P       03 38.00   1.5
                 eSg     03 56.60
     S.D. = 1.3  on   5 of   5 obs.
-------------------------------------------
&  JAN  31, 1991  01h 37m 00.40s
   63.842 N          148.770 W
   DEPTH = 110.3km
 CENTRAL ALASKA                    (  1)
      <AEIC>.

MCK     0.13 214 eP      37 16.34   2.2
                 eS      37 27.07
RND     0.44 185 iP      37 16.91  -0.3
                 eS      37 29.53
BWN     0.45 318 iP      37 16.93  -0.3
WRH     0.70  25 iP      37 18.71  -0.3
NEA     0.75 350 iP      37 18.95  -0.5
TRF     0.78 241 eP      37 20.03   0.0
                 eS      37 34.92
CCB     0.91  27 iP      37 20.52  -0.5
HUR     0.95 205 eP      37 21.10  -0.3
                 eS      37 36.79
HDA     0.98  54 iP      37 21.29  -0.4
RDS     1.03  15 iP      37 21.83  -0.4
MDM     1.15  12 iP      37 23.12  -0.4
                 eS      37 39.62
CUT     1.60 206 iP      37 28.10  -0.6
                 eS      37 50.68
PAX     1.72 119 eP      37 30.57   0.1
                 eS      37 54.55
GHO     2.08 182 eP      37 34.91  -0.1
TOA     2.11 145 eP      37 35.93   0.6
SKT     2.26 215 iP      37 36.40  -0.8
PWA     2.26 194 eP      37 38.29   1.1
TZL     2.37 138 eP      37 40.56   1.9
KNK     2.44 176 eP      37 39.16  -0.5
SUA     2.56 202 eP      37 41.89   0.6
PMS     2.63 188 iP      37 42.24   0.0
KLU     2.70 150 eP      37 42.36  -0.8
SPU     3.07 211 eP      37 48.28   0.1
CKL     3.13 214 eP      37 49.74   0.8
NCT     3.83 212 iP      37 59.24   0.8
```

31d 00h

25 obs. associated

JAN 31, 1991 02h 13m 31.96± 0.38s
0.511 N ± 3.1km 126.082 E ± 4.7km
DEPTH = 36.9 ± 3.4 km
5.6mb (38 obs.) 5.3Msz (12 obs.)
MOLUCCA PASSAGE (266)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 32C
Centroid Location:
Origin Time 02:13:36.6 0.4
Lat 0.82N 0.05 Lon 126.27E 0.05
Dep 48.7 2.8 Half-duration 2.5
Moment Tensor; Scale 10**17 Nm
Mrr= 3.65 0.16 Mtt= 0.85 0.21
Mff=-4.50 0.29 Mrt=-0.71 0.26
Mrf=-0.44 0.27 Mtf=-3.48 0.19
Principal Axes:
T Val= 3.85 Plg=71 Azm=195
N 2.41 19 28
P -6.26 4 296
Best Double Couple:Mo=5.1*10**17
NP1:Strike= 7 Dip=44 Slip= 62
NP2: 223 52 114
AAI 4.67 153 ePd 14 43.10 1.1
eS 15 33.60
DAV 6.55 356 eP 15 10.00 1.5
CGP 8.01 350 iPd 15 32.00 3.1X
eS 16 01.00
MKS 8.72 229 iPc 15 40.20 1.5
TSM 8.81 295 ePc 15 43.50 3.6X
1.1s 95.20nm 5.8mb
BKB2 9.35 259 ePc 15 51.00 3.6X
MAP 9.97 348 iPc 15 57.00 1.1
KKM 11.28 299 ePc 16 17.20 3.3X
0.8s 83.40nm 6.0mb
PGP 13.87 339 eP 16 51.50 3.1X
eS 17 14.00
MTN 14.18 160 iPd 16 53.00 0.5
OCP 14.88 341 eP 17 05.00 3.4X
KNA 16.37 171 eP 17 20.00 -0.8
0.7s 286.00nm 5.5mb
BAG 16.70 341 ePc+ 17 26.00 0.8
1.4s 1004.65nm 5.8mb
eS 20 32.00
CVP 17.59 346 iPd 17 38.20 2.1
SZP 17.82 342 iPc 17 40.00 1.1
MBL 22.39 195 eP 18 27.20 -1.5
0.5s 52.00nm 5.2mb
PJG 22.69 54 eP 18 31.50 -0.2
GUA 22.70 54 eP 18 31.70 -0.1
0.7s 290.41nm 5.9mb
KGM 22.81 274 eP 18 33.50 0.7
PMG 23.18 116 iPc 18 37.00 0.5
1.0s 160.00nm 5.5mb
QIZ 24.34 320 eP 18 45.50 -2.2X
N 17s 4.00um
E 15s 1.70um
sP 19 02.00
eS 22 56.00
QIS 24.77 148 iPc 18 51.30 -0.6
ASPA 25.21 163 iPc 18 55.00 -1.0
0.9s 452.60nm 6.1mb
Z 19s 4.60um 5.0Msz
eS 23 16.30
QZH 25.35 344 eP 18 56.50 -0.7
Z 24s 8.80um 5.2MszX
N 24s 6.10um
E 24s 6.10um
S 23 18.00
IPM 25.35 280 iPc 18 56.70 -0.7
0.7s 248.40nm 5.9mb
e 19 30.90
SNG 26.24 285 eP 19 06.80 1.1
0.9s 121.01nm 5.5mb
eS 23 12.00
WARB 26.54 179 iPc 19 09.20 0.8
0.8s 289.00nm 5.9mb
MEKA 27.93 195 eP 19 19.60 -1.4
0.4s 27.00nm 5.3mb
PCT 28.16 301 eP 19 34.00 10.8X
NNT 28.75 296 eP 19 27.70 -0.8
NST 29.71 302 iPc 19 37.00 -0.1
KHT 30.65 299 iPc 19 40.00 -5.4X
SSE 30.77 352 Pc 19 47.00 0.7
4.0s 500.00nm 5.6mb X
Z 20s 3.70um 5.0Msz
N 20s 0.19um
E 20s 2.90um
S 24 40.00
KAGJ 30.85 8 eP 19 47.30 0.3
MRWA 31.09 197 eP 19 47.50 -1.7
FORR 31.25 177 iPc 19 48.60 -1.9
GYA 31.86 326 P 19 55.80 -0.3
1.4s 100.00nm 5.5mb
Z 22s 2.80um 4.9Msz
N 15s 1.30um
E 15s 1.60um
PP 21 03.00
PcP 22 47.00
S 25 05.00
ScP 26 28.20
ScS 30 26.40
WHN 31.88 341 Pc 19 57.00 1.0
Z 26s 2.90um 4.8MszX
N 23s 6.30um
sP 20 10.50
OLP 32.12 148 eP 19 57.00 -1.2
KUMJ 32.17 8 P 19 58.40 -0.1
BAL 32.21 195 eP 19 57.00 -1.9
CHG 32.25 306 ePd 19 58.90 -0.6
1.1s 97.47nm 5.6mb
eS 25 08.00
KLB 32.89 193 eP 20 03.00 -1.9
KMI 33.28 319 Pd 20 08.50 -0.1
1.5s 340.00nm 6.0mb
Z 22s 6.50um 5.3Msz
sP 20 22.50
eS 25 24.00
MUN 33.64 195 eP 20 10.00 -1.4
SHNJ 33.77 8 eP 20 12.60 0.2
TKSJ 34.12 12 P 20 15.70 0.2
NWAO 34.29 193 iPd 20 16.20 -0.8
SHK 34.40 10 eP 20 17.40 -0.5
RMO 34.61 143 iPc 20 17.90 -2.0
WKYJ 34.70 14 P 20 20.10 -0.4
SVO 34.94 107 eP 20 17.00 -5.8X
HNR 35.13 107 eP 20 21.00 -3.5X
YONJ 35.18 11 P 20 24.00 -0.6
RKG 35.44 193 iPd 20 31.10 4.3X
0.8s 142.00nm 5.9mb
TSRJ 36.05 14 P 20 31.50 -0.4
IIDJ 36.49 16 eP 20 35.90 0.2
CD2 36.91 327 P 20 38.00 -1.3
1.0s 100.00nm 5.7mb
Z 12s 4.00um 5.4MszX
E 13s 1.90um
PP 22 02.80
S 26 17.00
sS 26 31.30
CMS 36.92 151 eP 20 39.00 -0.3
XAN 37.03 336 iPd 20 38.50 -1.7
N 12s 1.00um
E 12s 1.60um
pP 20 52.50 53kmX
ADE 37.22 163 iPc 20 43.00 1.2
0.8s 47.76nm 5.4mb
CHJJ 37.34 17 P 20 40.90 -1.9
MTMJ 37.50 16 P 20 43.00 -1.3
MAT 37.57 16 iPc 20 42.90 -1.8
0.8s 78.36nm 5.6mb
Z 20s 2.48um 5.0Msz
eS 26 27.00
BRS 37.79 139 iPd 20 46.30 -0.4
eS 26 30.00
KAKJ 37.85 19 P 20 44.80 -2.2
DL2 38.43 354 P 20 52.00 0.2
1.4s 190.00nm 5.7mb
Z 26s 2.00um 4.8MszX
N 12s 0.70um
E 13s 1.20um
sP 21 05.00
S 26 43.00
NIIJ 38.45 17 P 20 51.20 -0.9
TIY 39.10 343 eP 20 56.30 -1.3
0.7s 60.00nm 5.5mb
Z 27s 3.60um 5.1MszX
S 26 56.00
COO 39.48 144 eP 21 02.00 1.2
YAMJ 39.62 17 P 21 02.90 1.1
BJI 40.37 348 eP 21 07.00 -0.9
1.2s 85.00nm 5.4mb
Z 28s 4.47um 5.2MszX
N 11s 0.57um
eScP 26 59.00
eS 27 08.00
BFD 40.48 160 iPd 21 11.90 3.0
OFUJ 40.95 19 P 21 12.20 -0.6
LZH 40.98 332 Pd 21 13.50 0.2
6.0s 500.00nm 5.4mb X
Z 22s 6.75um 5.5Msz
N 16s 3.37um
E 15s 2.42um
pP 21 23.50 34kmX
sP 21 27.00
PP 22 48.00
PcP 23 14.50
ScP 27 01.50
PcS 27 04.50
eS 27 20.00
ScS 31 16.50
SNY 41.19 357 iPc 21 14.40 -0.2
1.4s 700.00nm 6.2mb
Z 24s 3.60um 5.2MszX
N 17s 1.90um
E 19s 1.70um
pP 21 24.00 32kmX
sP 21 28.00
SHL 41.34 310 iP 21 15.50 -0.9
CNB 41.75 151 eP 21 20.00 0.6
TOO 41.93 157 iPd 21 22.70 1.9
HHC 42.26 344 Pc 21 24.30 0.7
Z 25s 5.50um 5.3MszX
N 12s 0.80um
E 12s 1.10um
sP 21 38.00
BTO 42.49 342 eP 21 26.00 0.5
N 17s 2.20um
E 17s 1.30um
sP 21 33.00
CN2 43.10 359 eP 21 30.00 -0.3
5.0s 400.00nm 5.4mb X
Z 20s 4.20um 5.3Msz
N 15s 0.60um
E 15s 0.40um
pP 21 42.00 43kmX
PcP 23 20.00
ScP 27 06.00
eS 27 52.00
eSS 30 58.00
MRRJ 43.85 16 eP 21 34.50 -1.9
MDJ 44.03 4 Pc 21 37.40 -0.4
LSA 44.14 314 iP 21 38.20 -1.3
Z 40s 8.10um 5.3MszX
S 28 07.50
HOOJ 44.46 18 eP 21 42.70 1.4
BKM 45.25 116 iPd 21 48.20 0.2
DZM 45.29 122 iPc 21 47.90 -0.5
PVC 45.33 116 iPd 21 49.20 0.5
GTA 45.55 331 eP 21 49.00 -1.2
4.0s 290.00nm 5.5mb X
Z 24s 6.10um 5.5MszX
N 15s 1.50um
E 16s 3.20um
pP 21 55.60 22kmX
sP 21 59.60
PcP 23 29.00
ScP 27 20.40
PcS 27 24.00
eS 28 26.00
ScS 31 42.00
KUSJ 45.56 19 eP 21 49.90 -0.2
ASAJ 45.85 17 eP 21 52.10 -0.3
GUN 47.16 309 P 22 01.20 -2.2
PKI 47.36 308 P 22 03.00 -2.1
KKN 47.57 308 P 22 04.40 -2.1
DMN 47.62 308 P 22 05.00 -2.0
GKN 48.17 308 P 22 09.00 -2.1
KOD 49.29 283 eP 22 18.90 -1.2
HYB 49.67 293 eP 22 20.20 -2.4
1.0s 215.00nm 6.1mb
eS 29 20.00
GBA 49.88 287 Pc 22 20.50 -3.7X
0.7s 34.60nm 5.5mb
POO 54.28 293 eP 22 53.50 -3.7X
NDI 54.39 306 iPc 22 56.50 -1.4
iS 30 29.00
WMO 55.01 327 P 23 01.40 -0.9
1.0s 100.00nm 5.8mb

	Z 23s	3.20um		5.3MszX		
	N 18s	3.10um				
	E 18s	2.20um				
		PcP	24 03.50			
		ScP	28 00.00			
		S	30 38.00			
		ScS	32 45.00			
OUE	63.34 304 eP		24 01.50	1.2		
	1.3s 1173.08nm			6.8mb X		
		eS	32 28.80			
ADK	69.98 34 e(P)		24 48.10	6.4X		
SDN	80.20 34 eP		25 40.30	0.3		
VNDA	80.33 173 iP		25 40.40	0.0		
OBO	82.84 282 eP+		25 56.53	1.9		
ATA	82.91 281 eP+		25 56.70	1.7		
MKL	82.98 282 eP+		25 56.97	1.6		
TDD	83.22 282 eP+		25 58.70	2.1		
ARO	83.27 281 eP+		25 58.00	1.1		
SGH	83.47 281 eP+		26 00.06	2.1		
DAF	83.58 282 eP+		26 00.86	2.4		
GBR	83.64 281 eP+		26 00.40	1.6		
KSU	83.66 281 eP+		26 00.99	2.1		
HLD	83.68 282 eP+		26 01.04	2.2		
SVW	83.90 29 ePc		26 00.90	1.7		
TTA	84.05 27 ePc		26 00.80	0.8		
	1.2s 96.30nm			5.8mb		
BRW	85.41 18 eP		26 08.60	2.1		
IMA	85.57 24 ePc		26 08.30	0.7		
	0.6s 12.30nm			5.3mb		
PMR	87.06 28 eP		26 15.50	0.7		
	1.1s 25.00nm			5.4mb		
NPA	87.07 255 iP		26 23.90	8.1X		
FBA	87.89 25 eP		26 19.10	0.3		
	0.8s 9.50nm			5.1mb		
TOA	88.49 28 eP		26 22.60	0.8		
NAI	89.29 269 ePc		26 30.00	3.2X		
	1.8s 104.55nm			5.8mb		
BHL	90.08 304 P		26 30.00	0.1		
GLH	[illegible] 08 303 eP		26 31.00	1.1		
MKT	54 301 eP		26 33.50	1.5		
RMN	[illegible] 00 300 eP		26 35.00	0.8		
BBTK	92 23 310 eP		26 40.00	0.3		
KEV	92 67 340 eP		26 41.00	0.0		
SOD	93 [illegible] 338 iP		26 43.00	-0.3		
INK	9[illegible] 21 eP[illegible]		26 [illegible] 40	-0.8		
	1[illegible] 38.00nm			5.7mb		
KAF	94 [illegible]32 eP		26 46.80	-1.0		
NUR	95 331 eP		26 57.00	4.3X		
MBC	95. 13 eP		26 52.00	-0.6		
	1.0s 14.00nm			5.4mb		
VRI	96.16 316 ePd		27 02.50	5.0X		
KRI	96.34 253 eP		27 03.30	4.3X		
MLR	96.75 316 ePc		27 05.00	4.7X		
BUL	97.19 250 eP		27 06.40	3.6X		
BMR	98.09 318 ePd		27 08.00	1.9		
VAY	99.80 312 eP		27 13.00	-1.0		
KRA	99.93 321 eP		27 14.80	0.4		
	e		27 20.00			
SKO	100.52 313 ePdiff		27 15.50	-1.8		
HFS	100.54 332 ePdiff		27 17.10	0.2		
	0.5s 1.40nm			4.8mb		
NB2	101.36 333 Pdiff		27 19.90	-0.7		
	0.8s 9.60nm			5.4mb		
SRO	101.49 319 iPdiff		27 21.70	0.3		
KSP	101.99 322 ePdiff		27 24.20	0.6		
	e		30 38.20			
ZST	102.18 320 ePdiff		27 24.70	0.2		
	e		30 30.20			
	e		31 48.00			
YKA	102.68 25 ePdiff		27 25.70	-0.7		
	0.8s 2.90nm			5.0mb		
PRU	103.31 322 ePdiff		27 30.00	0.5		
	Z 22s 1.80um			5.6Msz		
	N 22s 0.90um					
	E 20s 0.90um					
	e		30 32.50			
	e		31 17.00			
BRG	103.41 323 iPdiff		27 31.00	1.1		
	1.4s 16.00nm			5.6mb		
	Z 20s 2.00um			5.6Msz		
	i		27 35.90			
	e		30 53.00			
	e		31 49.00			
CLL	103.84 324 ePdiff		27 32.00	0.2		
	e		28 04.00			
KHC	104.17 321 Pdiff		27 34.20	0.8		
	Z 20s 0.90um			5.3Msz		

	N 18s	0.30um				
	E 18s	0.70um				
		e	30 12.00			
		e	32 06.30			
GRF	105.44 322 ePKP		32 04.00	11.3X		
	1.2s	22.00nm				
	Z 22s	1.50um		5.5Msz		
BCAO	107.45 275 ePdiff		27 55.10	6.3X		
	0.7s	3.00nm		5.5mb		
		ic	31 56.50			
BSF	108.85 322 ePKP		31 50.20	-9.1X		
LPG	109.77 319 ePKP		32 01.40	0.0		
	0.7s	3.30nm				
LPL	109.77 319 ePKP		32 01.40	0.1		
	0.7s	2.20nm				
LBF	110.94 322 ePKP		32 02.50	-0.7		
SMF	111.17 321 ePKP		32 04.00	0.4		
SSF	111.20 322 ePKP		32 05.10	1.5		
FFC	112.36 28 ePKP		32 06.00	0.4		
	0.6s	8.00nm				
FRB	114.98 7 ePKP		32 10.00	-0.3		
		pP	33 06.00			
GUD	119.06 318 ePKP		32 20.00	0.9		
ENIJ	119.41 314 ePKP		32 20.30	0.6		
ALQ	119.64 49 ePKP		32 20.20	-0.2		
IFR	123.06 311 iPKP		32 28.00	1.0		
SCH	123.85 9 ePKP		32 28.00	0.4		
KUK	126.14 278 ePKP		32 32.00	-1.3		
KIC	130.45 279 PKP		32 42.08	0.6		
	0.8s	11.00nm				
TIC	130.69 279 PKP		32 42.50	0.5		
LIC	130.75 279 PKP		32 42.62	0.6		
LNV	142.91 156 ePKP		33 03.00	-1.0		
PCH	143.56 156 ePKP		33 00.80	-4.5X		
PEL	143.91 156 iPKP		33 04.50	-1.3		
JACH	144.35 155 ePKP		33 06.00	-0.6		
UPA	152.80 69 (PKP)		33 25.50	5.3X		
NNA	1[illegible] 55 117 ePKP		33 32.70	10.1X		
	s	3.36nm				
BMA	1[illegible].99 203 ePKP		33 33.10	8.7X		
JFO	156.52 205 ePKP		33 29.00	3.8X		
ARE	156.52 133 ePKP		33 33.00	7.4X		
CNCB	158.69 140 PKP		33 29.80	1.3		
LPB	158.82 139 ePKP		33 21.00	-7.4X		
	Z 20s	1.06um		5.7Msz		
		e	33 29.00			
		LR	28 06.00			
ZC	158.99 139 PKP		33 27.10	-1.7		
	1.0s	15.00nm				
	Z 24s	0.50um		5.3MszX		
		SKS	41 50.00			
		LR	29 22.00			
PDCR	161.08 230 ePKP		33 30.60	0.3		
SIV	163.08 156 PKP		33 33.20	0.9		
BAO	163.87 201 ePKPd		33 35.70	2.4		
SOB1	164.42 236 ePKP		33 37.40	3.7X		
		e	34 32.80			
	S.D. = 1.2	on 157 of 190 obs.				

• JAN 31, 1991 02h 27m 52.38± 1.13s
6.621 S ±10.3km 155.831 E ± 7.8km
DEPTH = 228.0 ± 12.1 km
4.8mb (6 obs.)
SOLOMON ISLANDS (193)

RAB	4.37 303 iPc		29 10.00	9.7X		
		iS	29 50.50			
SVO	4.68 123 eP		29 04.00	-0.1		
HNR	4.94 125 e(P)		28 22.00	-45.4X		
PMG	9.03 252 eP		30 00.00	0.2		
DZM	18.47 147 iPd		31 53 10	-0.7		
BRS	20.86 188 iPc		32 19.30	1.5		
QIS	20.96 227 eP		32 19.00	0.2		
WRA	24.71 236 P		32 54.00	-0.6		
	0.7s	13.70nm		4.6mb		
ASPA	27.04 229 iPc		33 14.70	-1.1		
	0.3s	17.60nm		5.2mb		
		eS	37 38.00			
GUN	75.64 301 P		39 14.80	0.0		
	0.7s	13.00nm		4.8mb		
PKI	75.95 300 P		39 16.40	-0.1		
KKN	76.12 301 P		39 17.20	-0.1		
	0.6s	6.00nm		4.5mb		
DMN	76.22 300 P		39 18.20	0.3		
	0.6s	17.00nm		5.0mb		
GKN	76.72 301 P		39 20.40	-0.2		
	0.6s	11.00nm		4.8mb		

GBA	80.35 285 P		39 40.50	0.4		
INK	89.08 21 eP		40 23.00	0.5		
MBC	95.15 14 eP		40 50.00	-0.3		
IFR	147.94 329 iPKPc		47 14.50	5.1X		
	S.D. = 0.7	on 15 of 18 obs.				

JAN 31, 1991 03h 10m 51.84± 0.66s
42.424 N ± 5.9km 19.743 E ± 5.6km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.1 (TTG).

PVY	0.24 45 iPgd		10 56.45	-0.6		
		iSg	11 00.78			
TTG	0.36 271 iPgc		10 58.80	-0.4		
		iSg	11 05.71			
IVA	0.46 14 iPgc		11 01.61	0.4		
		iSg	11 08.98			
ULC	0.59 219 iPgc		11 03.58	-0.2		
		iSg	11 12.70			
NKY	0.67 306 iPgd		11 05.68	0.4		
		iSg	11 16.56			
BDV	0.69 259 iPgc		11 05.60	0.1		
		iSg	11 16.73			
SKO	1.34 109 ePn		11 03.50	-13.0X		
OHR	1.53 149 ePn		11 19.70	0.4		
	S.D. = 0.5	on 7 of 8 obs.				

JAN 31, 1991 03h 45m 39.42± 0.50s
16.329 N ± 5.2km 61.378 W ± 6.8km
DEPTH = 26.6 ± 4.9 km
4.0mb (1 obs.)
LEEWARD ISLANDS (92)
ML 3.6 (FDF). Felt (IV) on Guodeloupe.

SFG	0.19 113 iPc		45 44.15	-1.0		
DEG	0.31 93 iPc		45 45.84	-0.9		
DOG	0.37 218 iPc		45 46.75	-1.0		
PAG	0.42 224 iPc		45 47.24	-1.1		
		S	45 52.50			
BTG	0 [illegible] 224 iPc		45 48.18	-1.0		
		S	45 53.60			
BBL	0.81 187 iPc		45 53.88	-0.9		
		S	46 03.00			
BPA	0.85 3 eP		45 55.80	0.4		
		eS	46 07.20			
MDN	[illegible].01 181 eP		45 57.47	-0.3		
		eS	46 10.33			
DBCT	1.05 179 eP		45 58.63	0.1		
		eS	46 11.03			
DPMT	1.06 180 eP		45 58.99	0.4		
		eS	46 12.10			
DSVT	1.09 180 eP		45 59.99	1.0		
		eS	46 13.19			
NEV	1.40 305 eP		46 04.79	1.5		
		eS	46 22.15			
FDF	1.60 172 eP		46 06.12	-0.2		
		S	46 25.30			
CRM	1.63 164 eP		46 06.47	-0.2		
BIM	1.83 171 eP		46 10.22	0.6		
SLB	2.51 173 eP		46 20.05	0.6		
		eS	46 51.31			
SVV	3.00 177 eP		46 27.05	0.8		
		eS	47 02.29			
SVB	3.04 178 eP		46 29.11	2.2		
		eS	47 04.71			
SIV	32.12 179 P		52 06.70	-0.2		
FRB	47.63 356 eP		54 16.00	1.2		
YKA	59.05 334 eP		55 37.50	-1.7		
	0.8s	1.00nm		4.0mb		
INK	68.36 338 eP		56 40.00	-0.3		
	S.D. = 1.1	on 22 of 22 obs.				

? JAN 31, 1991 04h 18m 36.88± 7.91s
46.980 N ±15.6km 4.701 E ±52.5km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 1.7 (LDG).

LBF	0.50 271 Pg		18 47.10	0.2		
		Sg	18 54.40			
LOR	0.64 297 Pg		18 49.60	-0.2		
		Sg	18 58.90			
SMF	0.68 241 Pg		18 49.70	-0.7		
		Sg	18 59.00			
SSF	0.82 276 Pg		18 52.60	-0.2		

31d 04h

			Sg	19 03.80		
AVF	0.94	259	Pg	18 54.40	-0.5	
			Sg	19 06.50		
BGF	1.34	252	Pg	19 03.00	1.4	
			Sg	19 19.70		
S.D. = 0.9			on	6 of 6 obs.		

& JAN 31, 1991 04h 42m 35.42s
59.900 N 152.803 W
DEPTH = 100.2km
SOUTHERN ALASKA (2)
<AEIC>.

RS2	0.57	2	iP	42 51.59	-0.6	
			eS	43 03.91		
RSO	0.56	2	iP	42 51.59	-0.6	
			eS	43 03.91		
REF	0.59	5	iP	42 51.75	-0.7	
			eS	43 04.22		
RDN	0.62	2	iP	42 51.91	-0.6	
			iS	43 04.58		
HOM	0.63	112	iP	42 52.10	-0.4	
			eS	43 05.03		
NCT	0.67	355	eP	42 51.83	-1.1	
			iS	43 05.04		
RDT	0.70	16	iP	42 52.36	-0.9	
			eS	43 05.33		
PDB	0.71	261	eP	42 51.84	-1.3	
			eS	43 05.39		
NNL	0.77	79	iP	42 53.95	0.2	
CNPM	0.88	115	iP	42 53.92	-0.9	
			eS	43 08.46		
BRLK	0.98	97	eP	42 54.92	-1.0	
			eS	43 10.46		
NKA	1.15	42	eP	42 58.77	1.0	
SYI	1.31	171	iP	42 58.33	-1.4	
			eS	43 16.26		
CKL	1.32	10	iP	42 59.20	-0.8	
			S	43 17.98		
SPU	1.34	16	iP	42 59.21	-0.9	
			eS	43 17.78		
BGL	1.38	8	eP	43 00.11	-0.6	
CRP	1.41	13	eP	43 00.56	-0.5	
SLKM	1.43	64	eP	42 59.71	-1.5	
			eS	43 19.04		
SEW	1.70	82	eP	43 02.98	-1.5	
			eS	43 24.99		
SUA	1.87	32	eP	43 06.14	-0.8	
PMS	2.09	48	eP	43 08.60	-1.2	
SKT	2.18	16	eP	43 08.71	-2.2	
PWA	2.27	38	iP	43 11.06	-1.0	
KNIM	2.58	78	eP	43 13.47	-2.7	
KNK	2.62	53	iP	43 14.57	-2.3	
GHO	2.67	44	eP	43 15.88	-1.7	
GLI	3.00	68	eP	43 17.05	-4.9	
27 obs. associated						

? JAN 31, 1991 04h 53m 42.08± 6.16s
4.543 N ±43.8km 76.780 W ±32.7km
DEPTH = 33.0km (normal)
COLOMBIA (103)
MD 2.7 (UVC).

HOBC	0.67	106	iPd	53 55.24	0.0	
			S	54 02.90		
CLMC	0.69	162	iPc	53 55.99	0.4	
BUGC	0.83	141	eP	53 57.28	-0.2	
ANCC	1.02	185	ePc	54 00.18	0.0	
HOQC	1.08	172	iPc	54 00.98	-0.2	
			eS	54 12.90		
DIAC	1.37	155	ePc	54 05.20	-0.1	
			eS	54 20.30		
S.D. = 0.3			on	6 of 6 obs.		

• JAN 31, 1991 06h 13m 10.70± 0.55s
5.307 N ± 7.6km 32.606 E ±10.2km
DEPTH = 10.0km (geophysicist)
4.6mb (11 obs.)
SUDAN (557)

AAE	7.14	58	ePn	14 57.50	-0.6	
NAI	7.77	147	ePd	15 08.00	1.3	
1.0s		31.00nm			5.5mb X	
LWI	8.40	207	iPc	15 14.10	-1.6	
			iS	16 54.60		
BCAO	14.05	267	iPc	16 28.00	-4.1X	
0.5s		13.00nm			5.0mb X	
			iS	19 11.20		
			Lg	20 23.00		
KRI	22.19	188	eP	18 30.00	20.9X	
			eSn	22 16.00		
			eLg	24 37.00		
TIC	37.44	274	P	20 27.20	0.9	
ZST	44.74	345	eP	21 28.70	2.7X	
KRA	45.86	349	eP	21 34.20	-0.6	
			e	21 37.30		
LPL	45.95	335	eP	21 35.40	-0.5	
1.0s		6.00nm			4.5mb	
KHC	46.56	343	P	21 41.20	0.8	
0.8s		8.00nm			4.8mb	
KSP	47.39	346	eP	21 49.80	2.9X	
SMF	48.09	334	eP	21 52.50	0.0	
1.0s		8.00nm			4.8mb	
LBF	48.29	334	eP	21 53.80	-0.3	
0.8s		5.35nm			4.7mb	
SSF	48.56	334	eP	21 55.90	-0.1	
0.8s		4.05nm			4.5mb	
LOR	48.56	334	eP	21 56.00	-0.1	
0.8s		4.05nm			4.5mb	
TCF	48.56	332	eP	21 57.00	0.9	
0.8s		5.35nm			4.7mb	
CLL	48.68	344	eP	21 56.00	-0.9	
LSF	48.85	332	eP	21 58.80	0.4	
0.9s		9.85nm			4.8mb	
LDF	51.33	333	eP	22 20.00	2.8X	
0.8s		5.35nm			4.5mb	
GRR	51.52	332	eP	22 20.50	1.8	
EKA	57.51	337	P	23 06.00	3.6X	
1.7s		47.60nm			5.2mb	
NB2	57.89	348	P	23 03.60	-1.4	
1.0s		5.00nm			4.5mb	
S.D. = 1.0			on	16 of 22 obs.		

JAN 31, 1991 06h 44m 10.77± 0.63s
39.064 S ± 5.3km 176.272 E ± 5.0km
DEPTH = 61.3 ± 11.4 km
NORTH ISLAND, NEW ZEALAND (159)

HATZ	0.22	321	P	44 20.20	-0.4	
WHH	0.25	44	P	44 20.40	-0.5	
RATZ	0.44	296	P	44 22.20	-0.1	
KETZ	0.48	266	P	44 22.90	0.0	
NGZ	0.53	258	P	44 23.60	0.1	
CNZ	0.58	256	P	44 24.00	0.1	
TTH	0.64	138	P	44 25.20	0.7	
MOH	0.69	96	P	44 25.70	0.7	
TAZ	0.85	13	P	44 27.50	0.5	
WLZ	1.33	336	P	44 33.80	0.3	
			S	44 50.80		
NOZ	1.45	73	P	44 35.10	0.0	
PGZ	1.55	180	P	44 35.20	-1.3	
MNG	1.67	201	P	44 38.80	0.7	
PUZ	1.84	58	eP	44 39.80	-0.8	
S.D. = 0.7			on	14 of 14 obs.		

• JAN 31, 1991 07h 18m 07.79± 0.74s
14.604 S ±24.4km 71.882 W ±13.7km
DEPTH = 147.7 ± 21.8 km
4.5mb (1 obs.)
PERU (116)

ARE	1.88	169	iPd	18 41.50	-0.6	
			iS	19 07.00		
ZOBO	3.98	115	iPc	19 09.80	0.7	
			i	19 57.00		
LPB	4.12	118	Pc	19 10.20	-0.5	
CNCB	4.35	121	iPc	19 15.20	1.3	
NNA	5.48	298	iPc	19 28.20	-0.4	
0.5s		17.61nm			4.5mb	
			iS	20 38.50		
PT10	5.55	296	e(P)	19 39.00	0.5	
SIV	10.52	99	P	20 34.60	-1.3	
PPD	20.86	114	eP	22 39.90	0.2	
S.D. = 1.1			on	8 of 8 obs.		

? JAN 31, 1991 07h 45m 15.45± 5.53s
13.169 S ±40.2km 166.777 E ±20.2km
DEPTH = 113.1 ± 49.8 km
4.8mb (3 obs.)
VANUATU ISLANDS (186)

BKM	4.69	163	iP	46 26.50	1.2	
DZM	8.86	182	iPc	47 20.30	-2.0	
			iS	49 06.60		
BRS	19.28	221	iPc	49 35.20	1.2	
RMO	21.48	229	iPc	49 57.00	0.7	
0.3s		16.00nm			4.9mb	
			eS	55 03.00		
ASPA	32.82	247	iPc	51 39.40	-0.9	
0.6s		14.30nm			4.9mb	
WARB	39.78	245	iPc	52 39.50	0.5	
NWAO	49.15	238	eP	53 53.00	-0.8	
YKA	96.39	27	eP	58 31.70	-0.6	
0.6s		0.60nm			4.3mb	
NB2	129.00	345	PKP	04 11.60	0.4	
0.6s		1.10nm				
LPL	143.58	336	ePKP	04 43.10	4.2X	
LPF	143.79	346	ePKP	04 38.20	-0.6	
0.6s		3.60nm				
MAF	144.46	341	ePKP	04 40.30	0.2	
TCF	144.51	341	ePKP	04 40.20	0.0	
0.6s		3.60nm				
SOB1	144.65	128	ePKP	04 41.30	0.0	
			e	04 44.30		
			e	08 44.60		
MFF	144.90	344	ePKP	04 41.40	0.6	
0.5s		5.85nm				
S.D. = 1.0			on	14 of 15 obs.		

JAN 31, 1991 07h 48m 58.46± 0.20s
7.435 S ± 3.9km 127.951 E ± 6.4km
DEPTH = 146.5km (3 depth phases)
5.2mb (15 obs.)
BANDA SEA (280)

AAI	3.73	4	iPd	50 03.30	7.5X	
			eS	51 24.00		
KUPT	5.07	238	ePd	50 22.70	9.1X	
			e(S)	51 22.50		
MTN	6.22	150	iPc	50 29.80	0.7	
KNA	8.30	175	iPd	50 57.30	0.2	
			eS	52 22.00		
BKB2	12.61	299	iPd	52 06.00	12.2X	
TSM	15.21	319	ePd	52 37.00	10.1X	
MBL	15.74	209	eP	52 33.00	-0.5	
			eS	55 12.00		
CGP	16.11	348	ePc	52 42.50	4.4X	
ASPA	17.12	161	iPd	52 50.10	-0.4	
0.7s		699.00nm			6.1mb X	
			eS	55 45.00		
QIS	17.25	140	iPd	52 51.50	-0.5	
			eS	55 53.00		
KKM	17.79	319	ePc	53 01.50	3.0X	
1.0s		112.20nm			5.1mb	
WARB	18.69	184	iPd	53 08.80	0.7	
PMG	19.10	97	eP	53 14.00	1.6	
0.8s		119.40nm			5.3mb	
PPR	19.41	332	iPc	53 29.00	13.3X	
MEKA	21.07	204	iPd	53 33.60	1.1	
			eS	57 27.00		
PGP	21.93	341	ePc	53 43.20	2.3	
FORR	23.30	180	iPc	53 54.20	0.1	
0.4s		20.00nm			4.9mb	
COOL	24.18	194	eP	54 02.00	-0.7	
MRWA	24.42	206	eP	54 06.00	1.1	
0.4s		17.00nm			4.9mb	
			eS	58 45.00		
OLP	24.54	143	iPc	54 06.20	0.1	
			e	54 40.00	169kmX	
			e	58 43.00		
BAL	25.35	203	eP	54 15.00	1.5	
CVP	25.70	346	eP	54 18.00	1.2	
MUN	26.76	203	eP	54 26.00	-0.4	
			eS	59 37.00		
RKG	28.37	199	eP	54 46.00	5.2X	
ADE	29.13	162	e(P)	54 47.50	-0.3	
CMS	29.17	147	iPc	54 47.70	-0.4	
			e	55 18.00	143km	
			eS	00 21.00		
IPM	29.40	293	ePc	54 51.00	0.7	
SNG	30.88	297	eP	55 04.20	0.9	
COO	32.14	139	eP	55 11.00	-3.2X	
BFD	32.45	158	eP	55 18.00	1.3	
			e	55 56.00	182kmX	
			e	02 08.00		
OZH	33.45	344	eP	55 25.50	0.1	
TOO	33.96	155	eP	55 31.00	1.2	
			e	01 53.00		
KMT	36.54	307	iPc	55 53.00	1.3	
BDT	37.68	311	iPc	56 02.20	0.9	
0.5s		45.40nm			5.5mb	

CHG	38.71	313	iPc	56	11.50	1.5
	0.9s	33.61nm			5.1mb	
SSE	38.85	351	Pc	56	11.30	0.4
	1.5s	61.00nm			5.1mb	
GYA	39.52	329	iPc	56	17.80	1.1
DZM	39.82	116	iPd	56	20.20	1.0
WHN	39.95	342	Pc	56	22.00	2.0
	1.4s	100.00nm			5.4mb	
		sP		57	04.00	
NJ2	40.21	348	Pc	56	23.00	0.9
	0.7s	60.00nm			5.4mb	
KMI	40.62	324	eP	56	28.00	2.2
CD2	44.62	330	P	56	58.20	0.2
XAN	45.02	337	Pc	57	00.50	-0.6
SHL	48.02	314	iP	57	25.00	0.0
BJI	48.47	348	eP	57	27.50	-0.5
	1.2s	47.00nm			5.1mb	
LZH	48.86	334	iPc	57	32.00	0.7
	2.0s	78.00nm			5.1mb	
		pP		58	04.50	142km
SNY	49.18	356	Pc	57	32.50	-0.9
CN2	51.04	358	P	57	46.70	-0.8
LSA	51.13	318	P	57	49.00	0.0
MDJ	51.83	1	eP	57	51.00	-2.4X
KOD	53.24	289	eP	58	05.10	0.4
GTA	53.40	333	iPc	58	05.50	0.2
	0.6s	30.00nm			5.3mb	
		PcP		59	11.20	
GUN	53.73	313	P	58	08.18	0.0
PKI	53.88	312	P	58	09.00	-0.3
KKN	54.10	312	P	58	10.56	-0.2
DMN	54.13	312	P	58	10.86	-0.1
GBA	54.33	293	P	58	11.10	-1.2
GKN	54.69	312	P	58	14.78	-0.2
HYB	54.69	297	iPd	58	14.00	-1.0
	1.0s	120.00nm			5.7mb	
POO	59.26	297	iPd	58	45.20	-2.0
NDI	60.65	309	iPc	58	54.80	-1.6
	0.6s	80.00nm			5.8mb	
WMO	62.67	328	P	59	10.00	0.3
		pP		59	46.80	155km
MAIO	77.38	310	iPc	00	39.50	0.5
	0.8s	15.01nm			4.8mb	
SOD	101.18	337	ePdiff	02	34.00	1.0
KAF	101.98	332	ePdiff	02	35.00	-1.6
NUR	102.98	330	ePdiff	02	30.00	-11.1X
HFS	108.37	331	ePKP	07	09.80	-0.8
	0.9s	5.70nm				
YKA	109.03	26	ePKP	07	10.00	-1.8
	0.5s	3.00nm				
NAO	109.48	332	PKP	07	12.00	-0.7
	0.8s	2.80nm				
BSF	116.15	320	ePKP	07	24.80	-1.2
	0.7s	8.80nm				
HAU	116.37	320	ePKP	07	25.30	-1.0
	0.7s	4.40nm				
LPG	116.92	318	ePKP	07	27.10	-0.7
	0.5s	3.65nm				
LPL	116.92	318	ePKP	07	27.00	-0.7
	0.5s	5.10nm				
LOR	118.21	320	ePKP	07	29.00	-0.8
	0.5s	2.20nm				
LBF	118.24	320	ePKP	07	29.00	-0.9
	0.6s	5.40nm				
SSF	118.51	320	ePKP	07	29.80	-0.6
	0.6s	8.10nm				
EKA	118.56	331	PKP	07	31.00	0.8
	1.6s	28.10nm				
AVF	118.71	320	ePKP	07	29.70	-1.1
	0.5s	4.35nm				
BGF	119.12	320	ePKP	07	31.10	-0.5
	0.5s	12.40nm				
MAF	119.42	319	ePKP	07	31.50	-0.7
TCF	119.62	320	ePKP	07	32.00	-0.6
	0.6s	3.60nm				
LSF	120.08	320	ePKP	07	32.60	-0.8
	0.6s	3.60nm				
CAF	120.23	318	ePKP	07	33.70	-0.1
	0.7s	5.50nm				
LPF	120.94	323	ePKP	07	34.50	-0.4
	0.5s	5.85nm				
MFF	121.00	321	ePKP	07	34.70	-0.4
	0.5s	5.10nm				
FRB	122.55	9	ePKP	07	36.00	-1.5
KIC	133.04	272	PKP	07	42.52	-16.6X
NNA	148.69	128	PKP	08	30.50	3.6X
	0.9s	28.57nm				
BMA	149.07	194	ePKP	08	30.30	3.0X
			e	08	37.10	
			e	08	42.50	
ARE	149.44	141	ePKP	08	33.00	4.7X
JFO	149.78	196	ePKP	08	26.00	-2.4X
PPD	150.71	181	ePKP	08	32.80	3.1X
			e	08	35.10	
CNCB	151.22	147	PKP	08	31.00	-0.3
			i	08	38.30	
LPB	151.38	146	PKP	08	31.00	-0.3
	1.0s	70.00nm				
			i	08	38.00	
ZOBO	151.58	146	PKP	08	33.00	1.2
	1.0s	35.00nm				
			i	09	22.00	
UPA	152.76	85	ePKP	08	39.30	6.5X
SIV	155.07	159	PKP	08	35.40	-0.6
			i	09	01.10	
	S.D. = 1.0	on	79 of	97	obs.	

& JAN 31, 1991 07h 56m 27.70s
32.550 N 115.467 W
DEPTH = 6.0km (geophysicist)
CALIFORNIA-MEXICO BORDER REGION (45)
<PAS-P>. ML 3.0 (PAS).

GLA	0.74	47	eP	56	40.50	-1.9
PLM	1.42	305	eP	56	51.00	-3.2
	2 obs. associated					

& JAN 31, 1991 08h 47m 51.80s
32.983 N 117.767 W
DEPTH = 6.0km (geophysicist)
CALIFORNIA-MEXICO BORDER REGION (45)
<PAS-P>. ML 2.5 (PAS).

PLM	0.84	64	eP	48	07.10	-1.5
PEC	1.04	29	eP	48	10.00	-1.8
	2 obs. associated					

JAN 31, 1991 08h 52m 50.58± 0.34s
44.354 N ± 4.2km 9.675 E ± 3.0km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 3.1 (LDG).

BOB	0.44	339	Pd	52	59.60	0.0
			eSg	53	07.20	
BDI	0.72	113	P	53	05.20	0.3
			eSg	53	15.00	
MME	0.75	102	P	53	05.10	-0.4
			eSg	53	15.10	
PCP	0.83	283	P	53	06.79	0.1
			S	53	19.33	
PII	0.88	136	Pd	53	08.00	0.5
			eSg	53	21.00	
CKI	1.00	275	P	53	12.00	2.4
			eSg	53	28.50	
FIN	1.06	263	P	53	10.59	0.0
			S	53	25.49	
ROB	1.30	268	P	53	13.87	-0.8
			S	53	30.99	
IMI	1.36	252	P	53	15.10	-0.5
			S	53	33.16	
MDI	1.42	1	P	53	17.10	0.7
			eSn	53	35.70	
ENR	1.62	266	P	53	19.04	-0.4
			S	53	39.82	
SFI	1.63	105	P	53	19.50	0.2
VAI	1.64	337	P	53	19.40	-0.1
			eSn	53	41.00	
SBF	1.69	254	Pn	53	21.30	1.0
			Sn	53	44.00	
STV	1.69	267	P	53	19.82	-0.6
			S	53	41.04	
DOI	1.75	276	P	53	23.20	2.0
			eSn	53	47.00	
ORO	1.75	317	P	53	22.20	1.0
ORX	1.75	317	P	53	21.87	0.5
			S	53	43.82	
CRE	1.80	113	P	53	22.60	0.7
			eSn	53	43.50	
PZZ	1.85	276	P	53	21.87	-0.9
			S	53	43.82	
PGF	1.87	195	Pn	53	22.30	-0.7
			Sn	53	45.40	
RSP	1.90	296	P	53	25.97	2.6X
			S	53	49.93	
LSD	2.10	303	P	53	24.83	-1.7
			S	53	48.66	
RRL	2.14	286	P	53	27.99	1.0
			S	53	54.16	
CTI	2.20	39	P	53	26.50	-1.2
			eSn	53	53.20	
FRF	2.33	251	Pn	53	28.80	-0.7
			Sn	53	58.00	
LPG	2.37	300	Pn	53	31.40	1.0
			Sn	54	01.80	
LMR	2.51	247	Pn	53	30.90	-1.1
			Sn	54	01.60	
LRG	2.56	251	Pn	53	32.90	0.2
			Sn	54	05.00	
CDR	2.90	258	eP	53	37.70	0.1
			e	54	11.10	
SMF	4.70	301	Pn	54	02.60	-0.6
			Sn	54	57.10	
LBF	4.78	305	Pn	54	04.40	0.0
			Sn	54	59.40	
LOR	5.00	308	Pn	54	06.10	-1.4
			Sn	55	03.80	
BGF	5.28	297	Pn	54	11.00	-0.5
	S.D. = 0.9	on	33 of	34	obs.	

% JAN 31, 1991 09h 38m 27.34± 0.99s
44.864 N ± 6.5km 7.609 E ± 9.8km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.3 (GEN).

RSP	0.38	319	P	38	36.25	1.1
			S	38	41.47	
PZZ	0.51	225	P	38	37.78	0.1
			S	38	44.55	
RRL	0.59	276	P	38	39.94	0.5
			S	38	48.14	
ROB	0.60	162	P	38	39.83	0.3
			S	38	48.14	
ENR	0.65	192	P	38	39.83	-0.6
STV	0.65	198	P	38	39.32	-1.1
			S	38	46.70	
LSD	0.68	332	P	38	39.32	-1.6
			S	38	49.27	
FIN	0.78	147	P	38	43.42	0.8
	S.D. = 1.1	on	8 of	8	obs.	

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* JAN 31, 1991 12h 09m 08.72± 0.76s
23.574 N ±20.1km 93.037 E ±17.1km
DEPTH = 33.0km (normal)
4.6mb (2 obs.)
BURMA-INDIA BORDER REGION (294)

SHL	2.25	332	eP	09	44.50	0.0
			iS	10	05.00	
GUN	7.76	305	P	11	02.72	0.1
PKI	7.95	302	P	11	05.18	-0.1
KKN	8.16	303	P	11	08.06	0.0
DMN	8.21	301	P	11	09.52	0.7
GKN	8.76	302	P	11	15.50	-0.8
WRA	59.10	134	P	19	08.00	-0.5
	0.4s	1.50nm			4.5mb	
ASPA	61.48	137	iPd	19	25.20	0.5
	0.7s	4.10nm			4.7mb	
	S.D. = 0.6	on	8 of	8	obs.	

% JAN 31, 1991 12h 12m 17.84± 0.80s
15.096 N ± 6.6km 61.163 W ±15.3km
DEPTH = 10.0km (geophysicist)
LEEWARD ISLANDS (92)
ML 2.4 (FDF).

FDF	0.36	178	iPd	12	25.14	-0.1
			S	23	30.10	
CRM	0.42	145	eP	12	26.99	0.7
			S	12	32.00	
BBL	0.52	324	eP	12	28.90	0.5
			S	12	36.20	
BIM	0.58	171	iPd	12	29.16	-0.5
			S	12	37.30	
DEG	1.21	5	eP	12	40.00	-0.5
			S	12	57.00	
	S.D. = 0.8	on	5 of	5	obs.	

? JAN 31, 1991 12h 49m 48.75± 3.60s
30.319 S ±42.8km 179.422 E ±32.8km

31d 12h

DEPTH = 581.7 ± 41.1 km
5.1mb (1 obs.)
KERMADEC ISLANDS REGION (177)

HBZ	7.32	187	P	51	40.70	-0.8
			eS	53	12.30	
PUZ	7.79	187	P	51	45.60	-0.5
			eS	53	17.50	
WLZ	8.15	202	P	51	51.60	2.2
PGZ	10.59	193	P	52	13.10	-0.4
MNG	10.77	196	eP	52	14.40	-0.9
			eS	54	15.00	
TCW	11.64	200	eP	52	23.70	-0.2
THZ	12.57	203	eP	52	34.00	0.8
BRS	23.50	270	iPc	54	17.00	0.7
WRA	41.87	273	P	56	49.00	-1.5
	0.3s		17.90nm			5.1mb
KAF	143.70	339	iPKP	08	19.30	0.6
	0.4s		1.80nm			

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

JAN 31, 1991 13h 09m 19.52± 1.73s
2.980 N ± 4.9km 128.276 E ± 9.1km
DEPTH = 66.4 ± 16.3 km
4.7mb (8 obs.)
HALMAHERA (267)

CGP	6.50	327	eP	10	55.80	1.1
KNA	18.62	179	eP	13	34.00	-0.3
MBL	25.38	199	eP	14	41.00	-1.3
DIS	25.90	155	iPc	14	47.00	-0.1
ASPA	27.05	169	eP	14	57.40	-0.3
	0.8s		9.20nm			4.4mb
Z	21s		0.50um			4.1Msz
			iS	19	25.20	
WARB	29.03	183	eP	15	16.00	0.4
CHG	32.73	301	eP	15	49.00	0.8
CHTO	32.73	301	eP	15	49.00	0.8
	1.0s		10.50nm			4.6mb
KMI	33.00	314	eP	15	53.50	2.7X
MAT	34.63	14	eP	16	02.00	-2.5
	0.7s		6.85nm			4.7mb
			eS	22	02.00	
XAN	35.79	332	Pc	16	13.40	-0.9
KLB	35.81	195	eP	16	14.00	-0.5
CD2	36.16	323	eP	16	17.10	-0.4
MUN	36.61	197	eP	16	21.00	-0.2
TIY	37.50	339	eP	16	27.10	-1.6
BJI	38.49	345	eP	16	36.00	-0.8
	1.0s		9.00nm			4.6mb
			sP	16	48.50	
SNY	38.90	354	eP	16	40.20	-0.1
Z	20s		0.50um			4.3Msz
E	20s		1.50um			
ADE	39.00	166	eP	16	42.50	1.2
LZH	39.93	329	iPc	16	50.00	0.8
	1.5s		62.00nm			5.3mb
Z	18s		0.29um			4.2Msz
			pP	17	01.50	41kmX
HHC	40.60	340	eP	16	54.60	0.1
CN2	40.73	357	eP	16	56.00	0.7
MDJ	41.48	1	eP	17	01.00	-0.5
LSA	44.09	311	P	17	22.40	-1.2
GTA	44.53	328	iPc	17	26.40	-0.2
	0.6s		10.00nm			4.8mb
Z	18s		0.40um			4.4Msz
			sP	17	39.40	
GUN	47.41	306	P	17	50.20	0.3
PKI	47.66	305	P	17	51.60	-0.2
KKN	47.85	305	P	17	53.20	0.1
DMN	47.92	305	P	17	53.20	-0.5
GKN	48.46	305	P	17	57.60	-0.1
HYB	50.82	290	eP	18	16.50	0.7
GBA	51.30	285	P	18	20.00	0.6
WMO	54.22	325	iPd	18	40.70	-0.1
OUE	63.85	302	eP	19	40.30	-7.6X
SVW	80.70	29	e(P)	21	27.30	0.6
IMA	82.44	24	ePc	21	37.40	1.6
	0.6s		5.80nm			4.7mb
PMR	83.86	28	eP	21	43.50	0.6
TOA	85.30	28	eP	21	52.20	1.9
YKA	99.53	25	eP	22	55.70	-0.7
	0.6s		0.70nm			4.4mb
ZOBO	159.15	130	ePKP	29	32.00	19.2X

S.D. = 0.9 on 36 of 39 obs.

JAN 31, 1991 13h 29m 12.35± 0.26s

45.680 N ± 2.7km 26.635 E ± 2.3km
DEPTH = 132.5 ± 3.2 km
4.8mb (60 obs.)
ROMANIA (358)

Felt (IV) in the epicentrol oreo and (III) at Bucharest. Also felt at Silistro, Bulgorio.

VRI	0.20	18	iPc	29	32.50	2.4
BRD	0.33	119	iP	29	34.00	3.5X
CVO	0.35	294	iPc	29	33.00	2.4
MLR	0.52	249	iPc	29	35.00	2.8X
ISR	0.55	187	iPc	29	35.50	3.2X
CLI	0.98	27	iPc	29	37.00	1.4
CFR	1.18	114	iPd	29	39.50	2.0
CMP	1.20	250	iPd	29	40.00	2.3
MTUR	1.20	248	iPd	29	41.00	3.2X
BUC1	1.40	198	iPd	29	44.00	4.2X
IAS	1.64	23	iPc	29	41.00	-1.6
COZ	1.65	258	iPd	29	46.00	3.1X
TNR	1.66	270	iPc	29	41.00	-1.8
CVD	1.67	143	iP	29	50.00	7.1X
DRA	1.96	240	iPd	29	46.00	-0.3
PSN	2.28	151	eP	29	51.00	0.6
DEV	2.62	276	P	29	55.00	0.3
SRE	2.63	248	iPd	29	58.00	3.2X
PVL	2.63	201	iPd	29	56.00	1.1
GZR	2.73	265	iPc	29	52.00	-4.2X
BMR	2.94	314	iPd	29	59.00	0.2
JMB	3.21	181	iPd	30	02.00	-0.5
BZS	3.52	271	iPc	30	09.50	3.0X
PGB	3.60	210	iPd	30	08.00	0.4
DIM	3.72	193	iPc	30	09.00	-0.1
TIM	3.79	273	iPd	30	09.00	-1.1
SOF	3.82	220	iPd	30	11.00	0.4
VTS	3.95	220	iPd	30	12.00	-0.5
KDZ	4.12	193	iPd	30	15.00	0.4
RZN	4.23	200	iPd	30	16.00	-0.2
BEO	4.45	261	iPn	30	17.30	-1.6
	1.0s		0.55nm			
			e(Sn)	31	02.00	
KKB	4.60	215	iPd	30	21.00	0.0
MMB	4.60	208	iPd	30	21.00	-0.1
RDO	4.60	190	ePn	30	20.00	-1.0
ITU	4.89	158	iPc	30	23.00	-1.9
ISK	4.94	158	ePn	30	25.00	-0.6
PSZ	5.14	298	iPn	30	25.80	-2.6
VAY	5.26	216	iPnd	30	29.00	-1.0
			i	31	11.60	
			i	31	18.40	
SKO	5.28	227	iPnd	30	29.60	-0.6
	0.7s		157.00nm			5.4mb
			i	30	37.90	
			i	31	15.20	
			i	31	16.20	
			i	31	22.50	
			i	31	27.50	
GBZT	5.30	156	ePn	30	29.00	-1.5
HRT	5.34	154	iPn	30	31.00	0.0
BNT	5.40	170	iPn	30	29.50	-2.4
EDC	5.41	170	ePn	30	31.00	-0.9
YLV	5.49	158	iPn	30	27.00	-6.1X
BUD	5.55	292	iPn	30	30.70	-3.1X
SPC	5.58	311	iPnd	30	32.80	-1.6
IVA	5.59	242	iPnd	30	33.77	-0.7
			iSn	31	29.93	
UZD	5.67	282	iPn	30	34.50	-1.0
PLE	5.69	248	iPnd	30	34.64	-1.2
			iSn	31	32.08	
PVY	5.70	240	iPnd	30	35.62	-0.4
			iSn	31	35.02	
PLG	5.80	205	ePn	30	36.40	-0.9
EZN	5.86	182	ePn	30	37.50	-0.5
GPA	6.02	152	iPn	30	39.20	-1.2
SRO	6.10	293	iPn	30	38.70	-2.7X
	1.2s		0.27nm			2.4mb X
			e	31	54.80	
TIH	6.18	285	ePn	30	40.00	-2.5
NKY	6.19	245	iPnd	30	41.79	-0.9
			iSn	31	43.35	
TTG	6.23	241	iPnd	30	42.39	-0.7
			iSn	31	48.40	
OHR	6.24	225	iPnd	30	43.00	-0.3
			i	31	30.50	
			i	31	37.30	
			i	31	50.00	
DST	6.25	166	iPn	30	42.10	-1.3
KRA	6.28	317	iPd	30	41.10	-2.7X
	0.8s		132.00nm			5.3mb
			i	30	50.60	
PRK	6.44	183	ePn	30	47.00	1.0
BRY	6.44	247	iPnc	30	44.84	-1.3
			iSn	31	49.48	
KZN	6.45	215	ePn	30	45.50	-0.7
ULC	6.51	238	iPnd	30	47.45	0.5
			iSn	31	54.93	
BDV	6.58	242	iPnc	30	48.34	0.5
			iSn	31	54.90	
HCY	6.69	244	iPnd	30	49.62	0.2
			iSn	31	57.32	
NEO	6.85	203	ePn	30	50.00	-1.6
ZST	6.99	295	iP	30	51.80	-1.7
			i	31	27.50	
			e	31	42.00	
			i	31	56.40	
ALT	7.10	158	iPn	30	54.20	-0.9
IZM	7.29	176	ePn	31	00.50	2.9X
BBTK	7.37	140	eP	30	57.00	-1.7
ZAG	7.45	275	iP	30	59.60	-0.1
PTJ	7.47	276	iPd	30	59.50	-0.5
VKA	7.52	294	iPc	30	58.70	-1.9
	4.0s		507.00nm			5.4mb X
			i	31	27.10	
			i	32	22.90	
			i	32	53.20	
			i	33	46.60	
EVR	7.65	210	ePn	31	01.50	-0.9
KHL	7.66	163	iPn	31	01.60	-1.0
HVAR	7.71	255	iPd	31	02.80	-0.3
			iS	32	27.80	
KEK	7.80	223	ePn	31	06.70	2.3
VBY	7.98	273	iPd	31	07.20	0.3
CIN	8.15	172	eP	31	10.00	0.9
KVT	8.25	121	eP	31	05.80	-4.7X
LJU	8.46	277	eP	31	13.50	0.3
			e	31	23.50	
			eS	32	44.60	
CEY	8.55	275	eP	31	14.00	-0.4
RIY	8.61	272	iPd	31	15.30	0.1
KSP	8.62	311	ePd	31	12.20	-3.1X
	1.1s		43.00nm			5.0mb
			i	31	13.20	
			i	31	23.20	
VOY	8.90	277	ePd	31	19.10	-0.2
TRI	9.01	275	iPd	31	21.10	0.5
PRU	9.20	302	ePd	31	20.80	-2.4
	1.2s		34.70nm			4.9mb
			e	31	29.50	
			e	31	37.60	
KHC	9.50	296	iPc	31	27.00	-0.2
	1.0s		53.50nm			5.2mb
			e	31	45.20	
FVI	9.66	280	Pd	31	32.20	2.9X
BHG	9.67	287	eP	31	29.20	-0.2
TDS	9.68	235	P	31	30.00	0.5
SGO	9.73	242	P	31	31.50	1.3
			eSn	33	13.10	
BRG	9.92	306	iPc	31	30.40	-2.3
	2.0s		44.00nm			4.8mb
			i	31	40.80	
			i	31	47.80	
WET	9.95	295	iPc	31	32.90	-0.2
	1.2s		181.00nm			5.7mb
ARV	10.01	262	P	31	34.90	1.0
AOU	10.09	255	P	31	36.90	1.8
SDI	10.10	251	P	31	36.70	1.6
AZI	10.22	254	P	31	38.70	2.0
ASS	10.34	260	P	31	39.70	1.4
CTI	10.46	277	P	31	41.60	1.6
MNS	10.57	257	P	31	36.70	-4.7X
CLL	10.65	307	iPd	31	39.30	-3.0X
	1.7s		31.00nm			4.7mb
			i	31	53.10	
SFI	10.65	266	P	31	44.10	1.7
CRE	10.66	264	P	31	44.50	1.9
SOTA	10.76	284	iPc	31	43.70	-0.2
	1.0s		42.90nm			5.1mb
			i	31	48.40	
			i	32	01.80	
			i	33	49.60	
FUR	10.80	289	iPd	31	43.90	-0.4
	1.4s		241.00nm			5.7mb
RDP	10.81	254	P	31	47.00	2.5
HOF	10.92	300	eP	31	45.50	-0.4

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SOI     10.95 230 P      31 46.90   0.7
GRF     11.14 297 iPd    31 47.60  -1.1
MOX     11.19 302 eP     31 49.00  -0.4
        1.2s     69.00nm          5.2mb
SAL     11.28 275 P      31 56.60   6.0X
GAZ     11.62 133 ePn    31 56.00   0.9
MDI     11.83 277 P      32 04.10   6.3X
GIB     12.13 235 P      32 05.50   3.6X
BOB     12.16 272 P      32 06.00   3.8X
VAI     12.48 277 P      32 10.60   4.4X
PCP     12.83 271 P      32 13.31   2.4
CKI     13.04 271 P      32 19.60   6.0X
ORX     13.05 276 P      32 14.55   0.7
FIN     13.14 270 P      32 13.72  -1.2
ROB     13.36 271 P      32 20.80   3.1X
IMI     13.43 269 P      32 19.36   0.6
CDF     13.48 289 eP     32 19.00  -0.3
        1.4s     43.55nm          4.7mb
RSP     13.63 275 P      32 20.08  -1.2
LSD     13.65 276 P      32 22.95   1.2
ENR     13.69 271 P      32 22.65   0.6
DOI     13.75 272 P      32 26.30   3.5X
STV     13.75 271 P      32 23.26   0.4
PZZ     13.85 272 P      32 24.29   0.1
LPG     13.93 276 eP     32 27.10   1.8
        0.8s     6.70nm           4.0mb
LPL     13.94 276 eP     32 27.00   1.6
RRL     13.99 274 P      32 25.93  -0.2
BNI     14.05 275 P      32 31.10   4.4X
MAU     14.08 287 eP     32 27.30   0.4
        1.1s     14.65nm          4.2mb
FRF     14.39 269 eP     32 34.40   3.5X
        0.8s     56.40nm          4.9mb
WTS     14.48 303 eP     32 36.50   4.6X
LMR     14.55 268 eP     32 36.40   3.5X
        0.7s     28.65nm          4.7mb
LRG     14.62 268 eP     32 38.20   4.4X
ENN     14.70 298 iPc    32 39.20   4.5X
        1.1s     50.00nm          4.7mb
NUR     14.90 356 eP     32 30.00  -7.2X
        0.7s     68.10nm          5.1mb
                 i        32 38.40
UPP     15.19 342 iP     32 38.80  -1.9
                 iLg      35 16.00
SSB     15.50 276 P      32 43.77  -1.1
LBF     15.70 283 eP     32 48.70   1.4
        1.0s     26.00nm          4.5mb
LOR     15.76 284 eP     32 47.80  -0.3
        1.2s     41.65nm          4.6mb
SMF     15.82 282 eP     32 48.50  -0.2
SSF     16.02 283 eP     32 51.80   0.6
        1.1s     34.20nm          4.6mb
PLDF    16.04 279 P      32 53.60   2.0
AVF     16.14 282 eP     32 52.90   0.2
        1.0s     17.00nm          4.3mb
HFS     16.40 337 eP     32 51.70  -4.1X
        0.4s     4.40nm           4.1mb
LBL     16.41 277 P      32 58.30   2.3
KAF     16.47 359 eP     32 51.00  -5.6X
PYM     16.49 279 P      32 59.82   2.6X
TAB     16.50 111 e(P)   32 59.00   1.7
BGF     16.51 282 eP     32 57.30   0.0
        0.6s     19.85nm          4.6mb
MAF     16.74 281 eP     33 01.10   1.0
        0.8s     13.45nm          4.3mb
TCF     16.97 281 eP     33 05.10   2.1
CAF     17.29 276 eP     33 07.90   1.0
        0.8s     9.40nm           4.1mb
LSF     17.45 281 eP     33 08.20  -0.5
NRA0    17.51 335 Pn     33 05.10  -4.2X
                 Sn       36 25.60
RJF     17.60 278 eP     33 11.80   1.2
        0.9s     32.75nm          4.6mb
N82     17.85 335 P      33 10.60  -2.9X
        0.6s     6.00nm           4.1mb
LPO     17.95 276 eP     33 16.20   1.4
        1.0s     56.00nm          4.8mb
LFF     18.21 277 eP     33 20.00   2.4
LDF     18.40 289 eP     33 17.80  -1.9
        0.6s     14.45nm          4.5mb
MFF     18.55 282 eP     33 20.60  -0.7
        0.7s     19.85nm          4.5mb
ODD1    18.58 327 eP     33 21.00  -0.5
FLN     18.64 289 eP     33 20.60  -1.6
        0.6s     14.45nm          4.5mb
     Z  22s      0.10um           5.6MszX
GRR     18.90 288 eP     33 23.40  -1.5

        0.5s     8.75nm           4.3mb
EPF     18.96 271 eP     33 27.50   1.8
        1.0s     22.00nm          4.4mb
LPF     19.03 287 eP     33 24.20  -2.2
        0.5s     10.20nm          4.4mb
ASK     19.50 327 iPc    33 30.50  -0.5
HYA     19.59 330 iPd    33 31.30  -0.6
SUE     20.03 328 iPd    33 35.70  -0.8
EKA     21.12 308 Pc     33 48.80   1.3
        0.7s     10.80nm          4.4mb
SOD     21.75 360 iP     33 53.50  -0.1
ETA     22.44 300 eP     34 01.00   0.5
ECP     22.50 299 eP     34 01.00   0.0
KEV     24.14   0 iP     34 17.40   0.6
        0.7s     64.10nm          5.2mb
MAIO    26.36  99 eP     34 39.00   1.3
BCAO    41.69 192 iPc    36 49.00  -0.3
        0.2s     44.00nm          5.8mb X
                 ic       37 17.00
WMO     42.48  70 iPc    36 57.00   1.4
        0.5s     40.00nm          5.4mb
KUK     45.78 219 eP     37 21.00  -1.2
POO     47.38 109 eP     37 34.50  -0.4
TIC     47.56 225 P      37 35.46  -0.8
        0.6s     10.00nm          4.7mb
KIC     47.67 224 Pc     37 36.66  -0.4
        0.4s     20.50nm          5.2mb
                 S        44 20.00
LWI     47.75 177 iPc    37 38.40   0.5
LIC     47.93 225 Pc     37 38.68  -0.4
        0.4s     18.50nm          5.2mb
GKN     48.58  91 P      37 45.10   0.9
DMN     49.15  91 P      37 49.74   1.0
KKN     49.16  90 P      37 49.46   0.7
PKI     49.39  90 P      37 51.18   0.5
GUN     49.51  90 P      37 52.36   0.8
HYB     51.32 106 eP     38 04.30  -0.7
LSA     52.12  84 iP     38 11.80   0.3
FRB     52.37 326 eP     38 11.00  -1.3
GTA     52.55  69 iPc    38 14.40   0.3
        0.6s     10.00nm          4.9mb
GBA     53.31 110 Pd     38 18.30  -1.4
        0.7s     7.50nm           4.7mb
KOD     55.83 113 eP     38 39.00   0.6
SCH     56.13 316 eP     38 38.00  -1.8
MBC     56.41 351 ePc    38 40.70  -0.8
        0.8s     20.00nm          5.1mb
LZH     57.05  70 iPc    38 47.30   0.6
        1.0s     55.00nm          5.5mb
                 pP       39 16.00 119kmX
BTO     58.42  63 eP     38 57.00   0.8
HHC     59.23  62 eP     39 02.00   0.2
CD2     60.08  75 iPc    39 08.10   0.5
        0.8s     60.00nm          5.6mb
XAN     61.61  69 P      39 18.30   0.4
KRI     62.27 177 iPc    39 27.30   4.9X
BJI     62.53  60 eP     39 24.00   0.2
        1.0s     18.00nm          5.0mb
BRW     63.30   1 eP     39 29.80   1.3
CHG     64.51  89 iPc    39 37.30   0.2
        0.9s     31.51nm          5.2mb
CHTO    64.51  89 iPc    39 37.30   0.2
                 ipP      40 07.00 121kmX
GYA     64.86  77 iPc    39 39.60   0.2
INK     65.37 352 iPc    39 40.80  -1.0
CN2     65.54  52 Pc     39 43.40   0.1
SNY     65.77  54 Pc     39 44.30  -0.5
YKA     67.81 342 eP     39 56.40  -1.0
        0.6s     10.30nm          4.9mb
IMA     68.59   0 iPc    40 03.50   1.2
        0.6s     8.40nm           4.8mb
NJ2     69.30  65 Pc     40 07.00   0.1
FBA     69.68 357 ePc    40 09.80   1.1
        0.6s     7.90nm           4.7mb
FFC     70.91 331 eP     40 15.00  -1.4
        0.5s     73.00nm          5.8mb
PMR     73.03 358 eP     40 29.40   0.7
        0.6s     7.90nm           4.7mb
EDM     75.71 336 iPc    40 44.00  -0.4
SES     77.52 334 ePc    40 54.50   0.1
        0.6s     31.00nm          5.2mb
FVM     79.34 314 eP     41 03.20  -1.3
        0.8s     18.94nm          4.9mb
RSSD    80.47 326 iP     41 10.50  -0.2
        0.9s     17.66nm          4.8mb
PNT     80.92 338 eP     41 14.00   1.2
        0.5s     7.00nm           4.7mb

NEW     81.22 336 iP     41 14.80   0.5
        1.0s     6.25nm           4.3mb
SOB1    81.30 247 eP     41 17.90   2.7X
LRM     82.00 332 ePc    41 19.10   0.4
PGC     82.49 341 eP     41 21.00   0.2
PDCR    82.68 244 eP     41 23.20   0.9
BW06    83.68 329 eP     41 27.00  -0.4
        0.9s     8.05nm           4.6mb
GOL     84.74 325 eP     41 31.00  -1.8
ALQ     89.25 323 eP     41 54.00  -0.7
        1.0s     3.25nm           4.3mb
ASPA   118.39  96 iPKPd  47 45.10  -0.5
        0.7s     4.00nm
     S.D. = 1.2  on 194 of 236 obs.
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   JAN  31, 1991  13h 52m 50.66± 1.92s
    3.043 N ± 6.6km  128.319 E ± 9.1km
   DEPTH =  72.9 ± 17.6 km
    4.8mb (  7 obs.)
 NORTH OF HALMAHERA                (264)

CGP      6.47 326 eP     54 26.00   0.6
QIS     25.94 155 eP     58 19.00   1.0
ASPA    27.10 169 iPc    58 27.80  -0.9
        0.5s     7.80nm           4.5mb
     Z  22s      0.30um           3.8Msz
WARB    29.10 183 eP     58 48.00   1.3
WHN     30.38 336 eP     58 58.50   0.6
GYA     31.20 320 P      59 09.00   3.6X
KHT     31.55 294 eP     59 07.80  -0.6
CHG     32.73 301 eP     59 19.50   0.7
CHTO    32.73 301 eP     59 19.50   0.7
        1.0s     8.00nm           4.5mb
KMI     32.99 314 eP     59 20.00  -1.2
MAT     34.56  14 iPd    59 32.30  -2.0
        0.7s     10.27nm          4.9mb
CD2     36.14 323 eP     59 47.20  -0.6
TIY     37.45 339 Pd     59 58.30  -0.5
     Z  18s      0.40um           4.3Msz
     N  11s      0.20um
BJI     38.44 345 eP     00 06.00  -0.9
SNY     38.85 354 eP     00 10.40   0.1
ADE     39.05 166 eP     00 10.00  -2.2
LZH     39.90 328 iPc    00 20.00   0.6
        1.3s     56.00nm          5.3mb
     Z  22s      0.25um           4.0Msz
                 pP       00 36.00  64kmX
HHC     40.56 340 eP     00 24.60   0.0
MDJ     41.42   1 eP     00 31.00  -0.4
LSA     44.08 311 P      00 54.20   0.2
GTA     44.50 328 Pc     00 56.90   0.1
        5.0s   410.00nm           5.5mb X
     Z  18s      0.60um           4.6Msz
                 pP       01 04.50  25kmX
GUN     47.41 306 P      01 20.50   0.2
PKI     47.66 305 P      01 22.10  -0.1
KKN     47.85 305 P      01 23.56   0.0
DMN     47.92 305 P      01 24.34   0.2
GKN     48.46 305 P      01 28.04  -0.1
HYB     50.84 290 eP     01 46.70   0.3
GBA     51.33 285 P      01 50.10   0.1
WMO     54.20 324 iPd    02 11.00  -0.1
                 pP       02 23.00  42kmX
OUE     63.85 302 eP     03 17.60  -0.7
SVW     80.62  29 eP     05 00.80   4.1X
IMA     82.37  24 ePc    05 07.40   1.6
        0.7s     8.60nm           4.8mb
PMR     83.79  28 ePc    05 13.70   0.8
        0.7s     13.10nm          5.1mb
TOA     85.22  28 eP     05 22.50   2.2
INK     90.22  22 eP     05 43.50  -0.5
YKA     99.46  25 eP     06 26.20  -0.2
        0.7s     1.20nm           4.6mb
LSD    109.04 320 Pdiff  07 00.97  -8.8X
RSP    109.11 320 Pdiff  06 50.05 -19.9X
PZZ    109.48 320 Pdiff  07 03.74  -7.9X
RRL    109.51 320 Pdiff  06 57.61 -14.3X
     S.D. = 0.9  on  34 of  40 obs.
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?  JAN  31, 1991  14h 53m 08.96± 3.32s
    7.770 N ±27.2km   84.609 W ±25.8km
   DEPTH =  33.0km  (normol)
    5.0mb (  2 obs.)
 OFF COAST OF COSTA RICA           ( 77)

UPA      5.16  76 iPc    54 25.80  -0.2
        1.0s   176.00nm           5.5mb
```

31d 14h

ANCC	8.79	118	ePc	55	17.97		1.2
			eS	56	21.20		
CLMC	8.89	115	eP	55	23.51		5.2X
HOOC	9.01	118	ePc	55	21.32		1.2
HOBC	9.08	111	eP	55	29.39		8.4X
SALC	9.21	121	eP	55	20.58		-2.1
DIAC	9.48	118	eP	55	27.75		1.2
CUMC	9.53	135	eP	55	10.89		-16.6X
SILC	9.66	121	eP	55	27.75		-1.4
PURC	9.84	123	eP	55	27.58		-4.1X
ZOBO	28.93	146	P	59	08.90		0.8
	1.1s		12.18nm			4.5mb	
	Z 24s		0.15um			3.5MszX	
			LR	07	34.00		
LPB	29.15	146	P	59	10.00		0.0
CNCB	29.44	146	P	59	12.00		-0.7
GKN	142.95	16	PKP	13	00.00		18.1X
	S.D. = 1.4		on 9 of 14 obs.				

? JAN 31, 1991 15h 17m 01.59± 1.01s
45.950 N ± 8.9km 14.400 E ± 8.1km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MD 2.3 (LJU).

LJU	0.13	45	iPgd	17	04.60		-0.2
			iSg	17	06.90		
CEY	0.21	175	e(Pg)	17	06.50		0.3
			eSg	17	09.00		
VOY	0.36	283	ePg	17	09.50		0.4
			eSg	17	15.80		
TRI	0.51	242	ePg	17	11.30		-0.5
			iSg	17	20.00		
	S.D. = 0.8		on 4 of 4 obs.				

JAN 31, 1991 19h 32m 46.62± 0.52s
23.630 S ± 6.1km 179.800 W ± 5.8km
DEPTH = 533.9 ± 6.5 km
5.1mb (23 obs.)
SOUTH OF FIJI ISLANDS (171)

VUN	5.83	343	ePd	34	24.50		0.9
AFI	12.29	40	eP	35	27.00		-1.9
			eS	37	33.00		
DZM	12.78	274	iPc	35	35.90		2.0
			iS	38	02.60		
PGZ	17.26	190	eP	36	18.20		0.1
MNG	17.40	192	eP	36	18.10		-1.4
WEL	18.19	193	eP	36	28.00		0.9
			S	39	27.00		
THZ	19.08	197	eP	36	36.70		0.9
KHZ	19.54	195	eP	36	40.40		0.4
LTZ	20.20	197	eP	36	45.40		-0.8
MQZ	20.97	195	eP	36	53.50		0.3
MHZ	23.16	200	P	37	13.30		0.0
BRS	25.01	256	iPc	37	31.50		1.5
COO	26.09	248	iPd	37	41.20		1.8
	0.8s		53.00nm			5.2mb	
RMQ	28.59	258	eP	38	02.00		0.7
CNB	29.15	239	iPc	38	08.30		2.2X
	1.0s		200.00nm			5.7mb	
CMS	31.36	248	iPd	38	26.20		1.2
	0.7s		90.00nm			5.5mb	
BFD	34.94	238	iPd	38	58.70		3.8X
	0.8s		64.00nm			5.3mb	
OIS	37.65	267	iPd	39	17.50		0.1
ADE	37.66	243	iPd	39	18.10		0.7
	1.0s		158.00nm			5.6mb	
ASPA	42.26	260	iPd	39	54.80		0.2
	0.5s		199.60nm			5.9mb	
			iScP	44	37.60		
			iS	45	34.80		
			iScS	48	55.90		
WRA	42.61	266	P	39	56.00		-1.3
	0.5s		217.20nm			5.9mb	
FORR	46.54	249	iPd	40	27.40		-0.2
	0.4s		75.00nm			5.6mb	
MTN	47.62	274	eP	40	35.00		-1.0
WARB	48.36	255	iPd	40	41.00		-0.6
	0.6s		91.00nm			5.4mb	
KLB	55.26	247	iPc	41	31.80		0.4
MEKA	55.44	253	eP	41	31.00		-1.8
MBL	55.51	260	iPd	41	31.10		-2.2
	0.4s		50.00nm			5.2mb	
NWAO	55.51	245	iPd	41	32.30		-0.9
RKG	55.55	244	iPd	41	32.90		-0.5
	0.4s		89.00nm			5.4mb	
BAL	56.30	248	iPd	41	37.90		-0.8
MUN	56.51	246	iPd	41	39.80		-0.2
MRWA	57.15	250	iPd	41	44.00		-0.5
	0.5s		59.00nm			5.2mb	
SPA	66.51	180	iPd	42	41.10		-3.7X
	1.0s		40.00nm			4.9mb	
			i	43	03.60		
MAT	71.78	325	eP	43	15.00		-1.3
	0.8s		5.97nm			4.2mb	
SYP	81.04	46	eP	44	07.00		0.0
PRS	81.22	44	eP	44	08.30		0.6
GCC	81.25	43	eP	44	08.70		0.9
PCC	81.30	43	eP	44	08.20		0.2
PRI	81.56	45	eP	44	10.70		1.1
BKS	81.63	42	eP	44	10.40		0.7
	0.8s		38.00nm			5.0mb	
LLA	81.67	44	eP	44	10.70		0.7
MHC	81.67	43	eP	44	10.90		0.8
ABL	81.73	46	eP	44	10.70		0.1
ARN	81.74	43	eP	44	11.00		0.6
IPM	81.95	279	ePc	44	12.00		0.2
	0.6s		29.00nm			5.0mb	
MWC	82.15	47	eP	44	02.00		-10.7X
PLM	82.46	49	eP	44	15.00		0.7
PEC	82.56	48	eP	44	14.70		0.1
SBB	82.57	47	eP	44	14.00		-0.6
FRI	82.68	44	eP	44	15.00		0.0
ISA	82.70	46	eP	44	15.00		-0.3
CMB	82.88	43	eP	44	16.30		0.2
ORV	83.12	41	eP	44	17.30		0.1
WDC	83.13	40	eP	44	17.50		0.3
CLC	83.37	46	eP	44	18.00		-0.6
TPC	83.45	49	eP	44	19.00		0.0
GSC	83.61	47	eP	44	20.00		0.2
GLA	83.71	50	eP	44	22.00		1.7
BONR	84.15	44	eP	44	22.70		0.0
TNP	84.92	45	iP	44	26.50		0.1
	0.9s		12.70nm			4.5mb	
CHG	89.75	291	iPd	44	51.00		1.8
	1.0s		15.75nm			4.9mb	
PNT	90.17	35	eP	44	51.00		0.5
	0.6s		8.00nm			4.8mb	
PV09	90.51	48	iP	44	52.10		-0.6
ALQ	90.65	52	eP	44	52.30		-1.0
	1.1s		9.18nm			4.7mb	
FBA	91.65	13	eP	44	56.00		-0.9
	0.6s		6.90nm			4.8mb	
BW06	92.38	44	iP	45	01.00		-0.1
	0.9s		6.57nm			4.7mb	
GOL	93.65	48	iP	45	08.00		0.9
	0.8s		5.36nm			4.7mb	
INK	97.72	16	eP	45	23.00		-1.5
YKA	100.04	25	ePdiff	45	33.30		-1.7
	0.6s		0.40nm			4.0mb X	
NB2	141.84	351	PKP	51	12.90		-5.5X
	0.6s		3.00nm				
LWI	142.11	231	iPKPc	51	18.00		-2.5
HFS	142.32	349	ePKP	51	13.50		-5.6X
	0.3s		14.50nm				
EKA	148.24	4	PKP	51	33.00		4.0X
	0.5s		2.70nm				
PRNI	148.37	290	ePKP	51	35.00		4.9X
KSP	150.10	339	iPKPc	51	37.50		5.5X
			id	51	45.90		
			e	53	48.50		
CLL	150.65	344	iPKP	51	38.70		5.9X
	0.9s		11.00nm				
BRG	150.79	342	iPKP	51	48.60		15.6X
	0.9s		14.00nm				
PRU	151.40	340	ePKP	51	51.00		17.0X
MOX	151.61	345	iPKP	51	52.00		17.7X
ZST	152.05	335	ePKP	51	54.60		19.6X
BCAO	153.98	226	iPKPc	51	47.00		8.3X
	0.3s		35.00nm				
			id	52	03.00		
LIC	161.98	163	PKP	51	47.94		0.1
KIC	162.18	164	PKP	51	48.08		0.0
TIC	162.38	163	PKP	51	48.26		0.0
	S.D. = 1.0		on 69 of 84 obs.				

JAN 31, 1991 19h 46m 58.81± 0.53s
24.864 N ± 7.3km 126.969 E ± 6.5km
DEPTH = 33.0km (normal)
4.7mb (13 obs.)
RYUKYU ISLANDS (238)

SSE	8.04	322	eP	48	56.00		-0.2
	Z 12s		0.50um				
	N 16s		1.00um				
	E 16s		2.10um				
			epP	49	04.50		
			S	50	24.00		
			sS	50	38.00		
NJ2	10.11	317	eP	49	23.00		-1.7
	Z 14s		0.50um				
	N 13s		0.90um				
	E 13s		0.80um				
WHN	12.53	300	eP	49	57.50		0.0
	N 12s		0.60um				
	E 12s		0.50um				
			pP	50	05.50		
TIA	14.13	325	eP	50	23.70		5.1X
MAT	15.11	37	eP	50	31.00		-0.6
	0.8s		48.51nm			4.8mb	
SNY	17.15	351	eP	50	58.10		0.6
	Z 14s		0.80um				
	N 14s		0.70um				
	E 12s		0.60um				
YAMJ	17.30	37	eP	51	01.60		2.2
BJI	17.64	332	eP	51	05.50		2.0
	0.7s		8.00nm			4.0mb	
	Z 14s		0.59um			4.1Msz	
			eS	54	16.00		
TIY	17.81	319	P	51	06.60		0.8
	Z 16s		0.60um				
	N 10s		0.50um				
			sP	51	20.00		
XAN	18.16	304	P	51	09.10		-1.1
	N 10s		0.40um				
			S	54	30.00		
GYA	18.38	279	P	51	13.60		0.7
OFUJ	18.84	38	eP	51	16.30		-2.1
CN2	18.93	357	Pd	51	17.60		-1.9
	Z 14s		0.70um				
	N 14s		0.30um				
	E 14s		0.30um				
			epP	51	28.00		
HHC	20.48	325	eP	51	35.70		-0.9
BTO	21.14	322	eP	51	42.00		-1.3
	N 15s		0.40um				
	E 15s		0.60um				
CD2	21.36	292	iPd	51	43.00		-2.6X
	Z 13s		0.90um			4.3MszX	
			S	55	35.20		
LZH	22.80	305	P	51	59.00		-0.9
	1.5s		57.00nm			4.8mb	
	Z 13s		0.79um			4.3MszX	
	E 10s		0.43um				
			sP	52	12.50		
CHG	26.67	263	iPd	52	37.10		0.3
	0.9s		37.82nm			5.0mb	
GTA	27.06	309	eP	52	39.00		-1.3
	1.0s		10.00nm			4.4mb	
	Z 14s		0.50um			4.2MszX	
	N 12s		0.60um				
			pP	52	47.40		30kmX
			eS	57	15.00		
			SS	57	24.00		
GUN	36.81	284	P	54	06.30		0.2
WMQ	37.11	311	eP	54	08.00		0.0
PKI	37.26	283	P	54	09.62		-0.2
KKN	37.35	284	P	54	10.48		0.0
DMN	37.52	284	P	54	11.90		-0.1
GKN	37.90	284	P	54	14.90		-0.1
WRA	45.11	170	P	55	13.00		-0.9
	0.7s		4.50nm			4.5mb	
HYB	45.57	270	eP	55	17.50		-0.3
G8A	47.86	266	P	55	36.00		0.2
ASPA	48.71	172	eP	55	41.20		-1.0
	0.9s		4.90nm			4.5mb	
QUE	52.97	290	eP	56	15.40		0.6
INK	70.59	23	eP	58	12.50		0.2
SOD	71.19	336	iP	58	16.80		0.8
MBC	71.42	13	ePc	58	16.60		-0.7
	0.5s		6.00nm			4.9mb	
NUR	74.49	330	iP	58	38.00		2.6X
	0.7s		14.70nm			5.1mb	
UPP	77.93	331	iP	58	55.80		1.0
HFS	79.49	332	eP	59	04.70		1.4
	0.4s		1.60nm			4.4mb	
NB2	80.03	334	P	59	06.40		0.1
	0.8s		6.40nm			4.7mb	
YKA	80.24	24	eP	59	07.10		-0.2
	0.6s		5.40nm			4.7mb	

```
KSP     83.11 323 eP     59 24.70   2.2
                  e      59 33.00
BRG     84.35 324 e(P)   59 50.00  21.2X
CLL     84.61 325 e(P)   59 32.00   1.9
FFC     90.31  26 eP     00 05.00   7.3X
        1.0s    16.00nm          5.3mb
      S.D. = 1.1   on  37 of  42 obs.
-------------------------------------------
*  JAN  31, 1991  21h 08m 43.59± 1.89s
   38.762 S ±14.2km  175.106 E ±11.2km
   DEPTH = 162.6 ± 13.8 km
 NORTH ISLAND, NEW ZEALAND          (159)

RATZ    0.53 102 Pd     09 06.80   0.0
KETZ    0.54 129 Pc     09 07.00   0.0
CNZ     0.56 142 iPd    09 07.10   0.1
NGZ     0.57 137 iPc    09 07.20   0.1
WHH     1.09  97 eP     09 09.90  -0.8
TTH     1.55 121 eP     09 15.40   0.5
MOH     1.63 104 eP     09 16.30   0.5
MNG     1.88 171 iPc    09 18.60   0.1
                 eS     09 40.40
PGZ     2.06 154 Pc     09 20.30  -0.2
KIW     2.10 184 eP     09 21.20   0.1
NOZ     2.30  87 eP     09 23.30   0.0
CAW     2.34 181 eP     09 24.00   0.1
MRW     2.49 187 eP     09 25.60   0.0
WDW     2.51 182 eP     09 25.50  -0.3
TCW     2.53 194 eP     09 26.50   0.4
MOW     2.66 178 eP     09 27.20  -0.5
KHZ     3.84 198 eP     09 42.50  -0.2
LTZ     4.56 207 eP     09 52.30   0.2
                 S      10 39.80
      S.D. = 0.4   on  18 of  18 obs.
-------------------------------------------
*  JAN  31, 1991  21h 30m 05.90± 0.79s
   5.717 N ±10.5km  124.229 E ±15.1km
   DEPTH =  33.0km  (normal)
   4.7mb (  3 obs.)
 MINDANAO, PHILIPPINE ISLANDS       (259)

CGP     2.76  10 eP     30 48.50  -0.2
                 eS     31 10.00
ASPA   30.69 162 iPc    36 19.90  -0.2
        0.8s     7.70nm          4.6mb
GUN    42.55 306 P      38 01.28   0.4
PKI    42.79 305 P      38 02.38  -0.5
KKN    42.99 305 P      38 04.28   0.0
DMN    43.06 305 P      38 04.68  -0.2
GKN    43.59 305 P      38 08.90  -0.2
GBA    46.72 283 Pd     38 26.70  -7.3X
        0.4s     3.30nm          4.7mb
SOD    87.69 337 eP     42 53.00   0.8
KAF    88.69 332 eP     42 49.90  -7.2X
        0.5s     2.60nm          4.8mb
NUR    89.77 331 eP     42 46.00 -16.1X
      S.D. = 0.5   on   8 of  11 obs.
-------------------------------------------
?  JAN  31, 1991  21h 33m 15.10± 3.90s
   38.442 N ±31.0km   14.375 E ±17.5km
   DEPTH =  10.0km  (geophysicist)
 SICILY                             (398)

GIB     0.53 211 P      33 25.70  -0.1
                 eSg    33 28.70
MNO     0.57 154 P      33 27.00   0.2
                 eSg    33 36.60
ATN     0.90 108 P      33 31.70  -0.7
                 eSg    33 46.10
SOI     1.37 105 P      33 40.80   0.6
                 eSg    33 58.20
      S.D. = 0.9   on   4 of   4 obs.
-------------------------------------------
&  JAN  31, 1991  21h 58m 45.70s
   33.567 N          116.900 W
   DEPTH =   6.0km  (geophysicist)
 SOUTHERN CALIFORNIA                 ( 43)
      <PAS-P>. ML 2.7 (PAS).

PLM     0.22 171 iPd    58 50.30   0.1
PEC     0.39 326 iPc    58 52.90  -0.7
GLA     1.81 106 e(P)   59 18.00   0.3
        3 obs. associated
-------------------------------------------
?  JAN  31, 1991  22h 15m 26.60± 5.55s
   38.603 N ±39.8km   14.264 E ±24.7km
   DEPTH =  10.0km  (geophysicist)
 SICILY                             (398)

GIB     0.64 197 P      15 39.80   0.3
                 eSg    15 42.90
MNO     0.75 153 P      15 40.90  -0.6
                 eSg    15 52.20
ATN     1.04 115 P      15 47.30   1.1
                 eSg    16 01.50
SOI     1.50 110 P      15 52.80  -0.8
                 eSn    16 14.50
      S.D. = 1.5   on   4 of   4 obs.
-------------------------------------------
*  JAN  31, 1991  22h 43m 34.45± 0.82s
   44.812 N ±19.4km   28.051 W ±10.1km
   DEPTH =  10.0km  (geophysicist)
   4.5mb ( 15 obs.)  3.8Msz (  1 obs.)
 NORTH ATLANTIC RIDGE               (403)

LPF    18.86  71 eP     48 00.10   3.4X
        1.4s    61.00nm          4.6mb
GRR    18.98  69 eP     48 01.90   3.7X
MFF    19.53  75 eP     48 05.10   0.2
        1.3s    39.70nm          4.5mb
BTH    20.08  85 P      48 08.40  -2.3
                  PP     48 33.20
LFF    20.36  79 eP     48 12.90  -0.7
EPF    20.49  85 eP     48 11.90  -3.1X
        1.5s    88.80nm          4.9mb
LPO    20.72  80 eP     48 15.80  -1.6
        1.3s    28.90nm          4.5mb
TCF    21.19  75 eP     48 22.60   0.4
        1.5s    47.00nm          4.6mb
CAF    21.29  79 eP     48 21.50  -1.7
        1.4s    56.65nm          4.8mb
MAF    21.44  75 eP     48 25.20   0.5
        1.2s    22.30nm          4.4mb
BGF    21.59  74 eP     48 27.90   1.7
        1.2s    26.80nm          4.5mb
AVF    21.91  74 eP     48 29.30  -0.1
SSF    21.99  73 eP     48 30.90   0.7
        1.0s    15.00nm          4.4mb
LOR    22.21  72 eP     48 32.90   0.5
        1.0s    15.00nm          4.4mb
     Z  20s     0.35um          3.8Msz
SMF    22.26  74 eP     48 32.90   0.0
HAU    23.81  70 eP     48 48.00  -0.1
        1.2s    11.90nm          4.3mb
BSF    24.13  70 eP     48 50.70  -0.5
        0.9s     9.85nm          4.4mb
CDF    24.40  69 eP     48 53.80   0.0
        1.2s    17.85nm          4.6mb
ABH    24.49  65 eP     48 57.15   2.5
KHC    28.47  66 P      49 32.00   0.5
PRU    28.99  64 eP     49 36.50   0.4
MBC    47.31 341 eP     52 10.50   1.1
        1.2s     9.00nm          4.7mb
YKA    50.06 323 eP     52 25.10  -5.7X
        1.0s     1.90nm          4.0mb
INK    54.45 334 eP     53 01.00  -2.6
LPB    71.09 221 eP     54 55.00  -0.4
CNCB   71.28 220 P      54 58.00   1.3
GUN    85.90  54 P      56 00.00 -16.3X
      S.D. = 1.3   on  22 of  27 obs.
-------------------------------------------
   JAN  31, 1991  23h 03m 33.67± 0.11s
   35.993 N ± 3.0km   70.423 E ± 1.9km
   DEPTH = 142.4km  (geophysicist)
   6.4mb ( 87 obs.)
 HINDU KUSH REGION                  (718)
      mb 6.6 (BRK). Mo=1.6•10••19 Nm
      (PPT). Estimated 200-400 people
      killed, many injured and many
      homes destroyed or damaged in
      Kanar, Nangarhar and Badakhshan
      Provinces, Afghanistan. At least
      300 people killed, hundreds
      injured and several thousand
      houses damaged in the Malakand-
      Chitral-Peshawar area, Pakistan.
      Three people died of heart
      attacks, severe damage (VII) and
      landslides occurred in the
      Khorog area, USSR. Felt (VI) at
      Ishkashim, Parkhar, Dushanbe,
      Garm, Dzhirgatal, Lyangor and
      Gissor; (V) at Shaartuz,
      Sherkent, Gezon, Leninabad,
      Tashkent and Namangan; (IV) at
      Chimkent; (III) at Dzhambul and
      Frunze, USSR. Felt throughout
      northeastern Afghanistan,
      northern Pakistan and northern
      India as far away as Delhi. Also
      felt throughout Tajikistan and
      eastern Uzbekistan, USSR. Depth
      from broadband displacement
      seismograms.
 FAULT PLANE SOLUTION: P-Waves
  NP1:Strike=100 Dip=67 Slip=  90
  NP2:       280     23        90
  Principal Axes:
    T                Plg=68  Azm= 10
    P                  22        190
 Comment: The focal mechanism is
   moderately well controlled and
   corresponds to reverse
   faulting. The preferred fault
   plane is NP2.
 RADIATED ENERGY
  No. of sta:   7  Focal mech.  F
  Energy        5.6±1.2•10••13 Nm
 MOMENT TENSOR SOLUTION
 Dep 118                 No. of sta: 15
 Moment Tensor;    Scale 10••19 Nm
   Mrr= 0.97         Mtt=-1.23
   Mff= 0.26         Mrt= 0.29
   Mrf=-0.65         Mtf=-0.51
  Principal axes:
    T  Val=  1.45  Plg=56  Azm= 70
    N       -0.07     34       255
    P       -1.39      2       164
 Best Double Couple:Mo=1.4•10••19
  NP1:Strike=224 Dip=52 Slip=  45
  NP2:       102     56        132
 CENTROID, MOMENT TENSOR      (HRV)
 Data Used: GDSN
 L.P.8.: 14S, 39C  M.W.: 16S, 40C
 Centroid Location:
 Origin Time       23:03:45.9 0.2
 Lat 36.01N 0.01 Lon  70.23E 0.02
 Dep 126.1 0.9 Half-duration 10.0
 Moment Tensor;    Scale 10••19 Nm
   Mrr= 1.25 0.02  Mtt=-1.07 0.02
   Mff=-0.17 0.02  Mrt= 1.85 0.01
   Mrf=-0.09 0.01  Mtf=-0.24 0.01
  Principal Axes:
    T  Val=  2.28  Plg=61  Azm=  9
    N       -0.17      6       268
    P       -2.11     29       174
 Best Double Couple:Mo=2.2•10••19
  NP1:Strike=247 Dip=17 Slip=  68
  NP2:       90     74        97

KHO     1.73  31 iP     04 07.20   1.4
                 eS     04 29.60
DSH     2.88 333 iPd    04 19.00  -0.8
                 eS     04 54.00
GAR     3.00 358 iPd    04 21.20  -0.3
TAS     5.40 351 iPc    04 52.00  -1.1
                 eS     05 54.00
KSH     5.60  50 iPc    04 57.50   1.5
                 eS     05 59.00
QUE     6.48 208 ePd-   05 06.10  -1.9X
FRU     7.56  24 iPd    05 24.00   1.6
                 e(S)   06 42.00
MAIO    8.85 275 ePn    05 37.00  -2.7X
                 eSn    07 10.00
NDI     9.28 140 ePd    05 42.80  -2.5X
                 iS     07 18.80
GKN    14.44 119 P      06 49.40  -3.3X
DMN    15.01 120 P      06 56.70  -3.2X
KKN    15.03 119 P      06 56.50  -3.6X
PKI    15.25 119 P      06 59.60  -3.4X
WMO    15.37  54 ePc    07 02.92  -1.2
                 eS     09 53.09
GUN    15.38 117 P      07 01.10  -3.6X
TEH    15.44 275 eP     07 06.00   0.8
SHI    16.31 252 eP     07 15.00  -1.0
BOM    17.16 172 iPd    07 23.40  -2.8X
                 iS     10 29.80
POO    17.65 169 iPd    07 29.50  -2.7X
                 iS     10 47.50
LSA    18.50 104 iP     07 42.40   0.4
TAB    19.34 283 iPc+   07 52.80   2.4
```

31d 23h

DHR	19.83	247	ePc	07	53.90	-1.4			Z	20s	23.40um			5.9Msz			Z	32s	38.30um			6.0MszX							
			iS	11	37.00				N	16s	38.20um						N	12s	17.90um										
HYB	19.86	157	iPd	07	56.60	0.8			E	16s	26.70um						E	13s	25.10um										
	0.7s	1214.30nm				6.4mb					pP	10	27.00	171kmX					ipP	11	04.00	146kmX							
			e	08	32.00						S	14	56.00						isP	11	20.00								
			iS	11	36.00		YLV	32.34	291	eP	09	51.80	0.6						iPcP	12	50.00								
SHL	21.12	114	iP	08	09.20	0.7	HHC	32.38	69	iPc	09	52.50	0.9						iS	16	06.00								
			iS	11	55.00			6.0s	6200.00nm				6.6mb X						sS	17	00.00								
RYD	23.36	248	ePc	08	30.80	0.6		Z 16s	47.50um			6.3MszX				KKB	36.92	294	eP	10	30.00	-0.1						
			iS	12	36.40			E 10s	31.40um							ATH	37.06	287	eP	10	31.00	-0.3						
GTA	23.46	73	iPc	08	33.30	2.1					PP	11	05.00				KNT	37.15	293	iPc	10	31.78	-0.3						
	5.0s	********nm				6.9mb X					S	15	00.00				THE	37.17	292	eP	10	33.42	1.2						
	Z 20s	64.90um				6.1Msz	ELL	32.46	284	iP	09	52.10	-0.3				NEO	37.19	290	eP	10	32.00	-0.5						
		PP	09	12.00			KHL	32.49	287	iP	09	51.30	-1.3				VAM	37.27	283	eP	10	32.50	-0.6						
		SS	13	31.00			ISK	32.53	292	iP	09	55.30	2.5X				VAY	37.37	293	iPc	10	35.40	1.5						
OASM	25.00	254	ePc	08	45.53	-0.2	KSL	32.85	283	eP	09	53.80	-1.8					1.3s	1126.00nm				6.5mb						
KOD	26.43	164	iPc	09	01.00	1.8	KHT	32.87	123	iPc	09	56.70	0.7				TIA	37.45	75	Pc	10	35.70	1.1						
	0.8s	100.00nm				5.5mb	DST	33.01	289	iP	09	56.40	-0.7					Z 35s	36.60um				5.9MszX						
		eS	13	29.00			PSN	33.04	297	eP	10	00.00	2.8X					N 12s	26.80um										
GAZ	26.62	282	eP	09	02.50	2.0	CFR	33.06	299	ePc	10	01.00	3.6X				GRG	37.55	292	ePc	10	36.06	0.6						
LZH	26.95	80	ePc	09	04.75	1.0	HLW	33.21	271	ePc	10	00.20	1.4				LIT	37.61	291	iP	10	35.46	-0.5						
	1.5s	2260.00nm				6.6mb					epP	10	05.00	17kmX			8ZS	37.66	300	ePc	10	41.00	4.7X						
	Z 20s	58.30um				6.1Msz					e	10	20.00				KAF	37.80	328	eP	10	36.90	-0.4						
	N 15s	70.50um					NST	33.32	120	iPc	10	01.50	1.6				KAF	37.80	328	P	10	37.58	0.3						
		pP	09	37.00	155kmX		LOE	33.33	115	eP	09	59.00	-1.0				TIM	37.93	300	iPc	10	41.00	2.4						
		sP	09	52.00			BNT	33.46	291	iP	10	01.30	0.4				APA	37.94	338	iP	10	38.80	0.5						
		PP	10	02.50			TIY	33.46	74	iPc	10	01.00	0.0							iS	16	20.00							
		eS	13	34.40				3.0s	8400.00nm				7.0mb				VLI	37.94	286	eP	10	36.00	-2.8X						
KVT	27.25	291	iP	09	07.30	1.1		Z 15s	24.00um			6.0MszX				HIA	37.97	54	ePc	10	39.61	0.7						
CD2	28.19	91	iPc	09	15.60	0.9					pP	10	38.00	175kmX					esPd	11	25.96							
	Z 20s	93.60um				6.4Msz					sP	10	47.50						ePP	12	14.02							
		S	13	53.00							iS	15	14.00				NUR	37.97	325	iPc	10	38.10	-0.6						
HLBJ	28.46	272	P	09	29.20	12.0X					sS	16	04.50							e	11	08.00	134kmX						
BHL	28.49	276	Pc	09	19.00	1.5	EDC	33.50	291	iP	10	01.00	-0.3							e	12	16.00							
		S	14	00.00			IAS	33.56	303	eP	10	03.00	1.4							e	12	50.00							
BURJ	28.81	273	Pc	09	23.30	2.9X	YER	33.67	285	iP	10	00.70	-2.1							e	16	28.00							
SIM	28.83	299	iPc	09	22.00	1.6	CIN	33.73	286	eP	10	01.00	-2.2							e	17	02.00							
		eS	14	00.00			ARG	33.98	283	eP	10	15.00	9.7X							e	18	46.00							
IRK	28.92	45	iPc	09	21.00	-0.1	VRI	34.08	301	iPd	10	12.50	6.3X							e	19	02.00							
		eS	14	14.00			ISR	34.20	299	ePc	10	22.50	15.2X				SUF	38.11	329	P	10	40.13	0.3						
KAS	28.97	292	eP	09	22.00	0.3	OBO	34.22	233	ePd	10	08.15	0.6				KZN	38.12	292	eP	10	40.00	-0.3						
KFNJ	29.03	272	Pc	09	24.50	2.3	IZM	34.24	287	iP	10	07.30	-0.3				SKO	38.12	294	iPc	10	42.00	1.8						
MML	29.07	273	eP	09	23.00	0.3	JMB	34.27	294	eP	10	09.00	1.2					1.5s	1318.00nm				6.5mb						
DSI	29.36	272	eP	09	26.00	0.8	PTT	34.35	302	eP	10	10.50	2.1					Z 15s	22.63um				6.1MszX						
FAM	29.56	279	eP	09	26.50	-0.4	CVO	34.47	300	iPc	10	14.00	4.5X					N 14s	24.23um										
KMI	29.74	102	ePc	09	28.93	0.1	TDD	34.60	233	ePd	10	11.00	0.2					E 14s	21.49um										
	2.5s	2070.00nm				6.4mb	ATA	34.67	232	ePd	10	12.49	1.1						i	10	45.50	12kmX							
		eS	14	17.57			SMG	34.69	286	eP	10	06.00	-5.4X						i	11	01.60								
		esS	15	10.54			EZN	34.74	290	iP	10	11.40	-0.4						i	11	14.50								
AYN	29.80	266	ePc	09	30.00	1.0	ALN	34.82	292	iPc	10	14.26	1.8						i(PP)	12	14.50								
BBTK	29.81	289	iPd	09	31.00	1.8	ARO	34.85	233	ePd	10	13.79	0.8						iPPP	12	51.00								
OBN	30.00	320	iPc	09	29.30	-1.2	KAP	34.88	282	eP	10	11.80	-1.3						iPcP	12	51.20								
	2.0s	********nm				7.3mb	PCT	34.90	119	ePc	10	15.00	1.7						iPcS	12	57.00								
	Z 16s	124.00um				6.6MszX		1.0s	14.00nm				4.7mb X						iS	16	22.00								
		iS	14	20.00			DAF	34.99	233	ePd	10	14.96	0.8						i	16	54.00								
SRAT	30.01	241	ePc	09	32.00	0.7	SGH	35.05	233	ePd	10	15.81	1.1						i	17	16.00								
DHJN	30.03	240	ePc	09	31.70	0.2	PUL	35.06	325	ePc	10	14.00	-0.3						i	19	24.00								
PRNI	30.07	269	eP	09	34.00	2.5X					eS	15	42.00						iScS	21	00.00								
CSS	30.11	279	eP	09	30.50	-1.2	KSU	35.11	233	ePd	10	15.76	0.6						LR	32	23.00								
MBH	30.37	268	eP	09	37.00	2.8X	PVL	35.14	296	iPc	10	16.00	0.9				EVR	38.34	289	eP	10	41.00	-1.2						
CHG	30.40	117	iPc	09	34.00	-0.5	RDO	35.17	292	eP	10	16.50	1.1				KEF	38.45	327	P	10	42.98	0.3						
	1.4s	459.30nm				6.0mb	KDZ	35.21	293	eP	10	17.00	1.2				OIZ	38.53	105	Pc	10	42.90	-0.9						
		eS	14	24.00			NNT	35.21	124	iPc	10	16.00	0.0							pP	11	14.00	140kmX						
HQL	30.42	267	ePc	09	36.20	1.7	MTUR	35.25	299	eP	10	22.00	5.8X							S	16	22.50							
BADA	30.74	266	ePc	09	38.00	0.7	CMP	35.27	299	iPc	10	20.00	3.8X				SPC	38.53	306	eP	10	42.80	-1.0						
PPCY	30.92	279	eP	09	39.70	0.9	GBR	35.37	233	ePd	10	18.08	0.6							i	11	19.80	171kmX						
BTO	31.23	69	iPd	09	43.20	1.6	COZ	35.76	300	ePd	10	24.50	4.0X				ITM	38.62	287	eP	10	32.50	-12.0X						
	1.2s	1200.00nm				6.5mb	TNR	35.80	300	ePd	10	22.00	1.3				OHR	38.72	293	iPc	10	45.70	0.4						
XAN	31.46	82	iPc	09	43.40	-0.2	APE	35.84	285	eP	10	20.60	-0.5					1.9s	1397.00nm				6.4mb						
	4.0s	4100.00nm				6.5mb X	DRA	35.84	298	iPd	10	22.00	1.0						i	10	49.10	12kmX							
	N 12s	36.30um					BJI	35.97	69	ePc	10	23.19	1.1				KRA	38.74	307	ePc	10	44.90	-0.4						
	E 12s	26.30um						5.0s	5180.00nm				6.5mb X					1.0s	1147.00nm				6.6mb						
		pP	10	18.00	164kmX			N 15s	37.10um									Z 18s	28.20um				6.1Msz						
		sP	10	38.00							esPd	11	10.20					E 18s	28.50um										
		PP	10	56.00							eS	15	56.98						i	10	46.90	7kmX						
		PcP	12	30.00							e	17	14.23						i	10	49.30							
		S	14	41.00			PGB	36.04	295	eP	10	23.00	0.1						i	10	55.30							
		sS	15	33.00			NPS	36.19	282	eP	10	23.00	-1.1						i	11	17.00							
BDT	31.47	119	iPc	09	43.90	0.2	BMR	36.34	304	ePc	10	27.00	1.8						iS	16	35.00							
	1.0s	828.10nm				6.5mb	MMB	36.47	293	ePc	10	28.00	1.6				PSZ	38.77	304	iP	10	46.00	0.4						
GPA	31.65	290	iP	09	44.90	-0.3	SRS	36.63	293	eP	10	29.34	1.6				PVY	39.12	296	iPc	10	50.35	1.7						
BCK	31.80	285	iP	09	45.80	-0.8	PAIG	36.74	291	iP	10	28.90	0.3				IVA	39.14	296	iPc	10	49.23	0.5						
ALT	31.94	288	iP	09	47.80	0.0	VTS	36.74	295	iPc	10	29.00	0.1				GZH	39.20	97	iPc	10	50.40	1.1						
HRT	32.09	291	eP	09	51.30	2.3	PLG	36.85	291	eP	10	29.50	-0.1					6.5s	********nm				6.8mb X						
G8ZT	32.26	291	iPc	09	51.00	0.5	GZR	36.86	300	iPd	10	30.50	0.9					Z 32s	40.00um				6.0MszX						
GYA	32.26	97	iPc	09	51.00	0.2	WHN	36.89	86	iPc	10	31.50	1.5					E 15s	15.10um										
	3.0s	2500.00nm				6.5mb		7.0s	3200.00nm				6.2mb X						iS	16	42.00								

IGT		39.35	291	iP	10	49.14	-1.3	BSD		42.04	315	iPc	11	14.20	2.0			1.5s	810.00nm		6.2mb
BUD		39.37	303	iP	10	50.90	0.5			1.0s	750.00nm				6.3mb				ipP	11	56.20	161kmX
AAE		39.37	235	eP	10	52.40	1.2					i	11	46.00	142kmX				eS	17	39.00	
VLS		39.43	289	eP	10	49.00	-2.1					i	13	03.00					sS	18	35.00	
PLE		39.44	297	iPc	10	51.98	0.7	IPM		42.08	131	iPc	11	14.00	1.0	HFS		43.18	322	eP	11	20.40	-1.0
TTG		39.66	295	iPc	10	53.68	0.8					e	11	37.90	102kmX			0.4s	485.20nm			6.5mb	
				eS	16	48.00						e	12	44.90			Z	16s	82.10um			6.7MszX
UZD		39.71	302	iP	10	53.70	0.4	VBY		42.12	301	iPd	11	14.80	1.7				LR	20	17.00		
KEK		39.72	291	eP	10	52.80	-0.6	SSE		42.21	82	Pc	11	14.00	0.1	KBA		43.25	303	iPc	11	21.90	-0.6
ULC		39.74	295	iPc	10	54.38	0.8			6.0s	********	nm			6.7mb X			1.1s	1098.00nm			6.4mb	
NKY		39.80	296	iPd	10	54.80	0.6		Z	20s	38.60um				6.3Msz				i	11	23.90		
SNG		39.81	129	eP	10	54.80	0.4		N	14s	22.40um								i	11	28.00		
		1.1s	1118.99nm				6.5mb		E	12s	18.60um								ipP	11	56.60	156kmX	
				eS	16	49.50						pP	11	48.00	153kmX				i	12	15.60		
SRO		39.83	304	iP	10	54.90	0.6					sP	12	02.00		MSI		43.28	290	P	11	24.30	1.8
				e	11	28.20	151kmX					PP	12	52.00		DUI		43.32	295	P	11	25.55	2.6X
MCO		39.84	98	eP	10	57.50	2.9X					PcP	13	00.00				1.1s	1279.40nm			6.5mb	
BDV		40.00	295	iPd	10	55.07	-0.7					S	17	26.00		WET		43.36	306	eP	11	23.50	0.4
SOD		40.00	335	iP	10	55.30	-0.1					sS	18	20.00			Z	18s	46.00um			6.4Msz	
NJ2		40.01	81	iPc	10	57.00	1.1					ScS	21	02.00					eS	17	51.00		
		6.0s	6700.00nm				6.6mb X	PRU		42.23	307	Pc	11	13.90	0.0	ATN		43.36	290	P	11	24.44	1.2
	Z	21s	16.90um				5.9Msz		Z	18s	35.30um				6.3Msz			1.2s	779.20nm			6.2mb	
	N	15s	25.50um						N	20s	50.00um					BHG		43.50	304	iPc	11	24.10	-0.1
	E	15s	23.80um						E	20s	8.00um								i	11	25.70	5kmX	
				pP	11	31.00	154kmX					e	11	15.70		TRO		43.55	337	iPc	11	24.27	0.0
				PP	12	32.00						pP	11	48.00	154kmX	KLM		43.62	131	eP	11	27.00	1.5
				S	16	50.00						PP	13	00.00		FVI		43.70	303	P	11	27.10	1.3
				sS	17	43.00						pPP	13	28.00		SDI		43.78	295	P	11	28.80	2.2
BRY		40.12	296	iPc	10	56.38	-0.5					S	17	16.00		HOF		43.92	308	eP	11	27.20	-0.4
TIH		40.17	302	iP	10	57.00	0.0					sS	18	20.00					i	11	29.20	7kmX	
HCY		40.22	296	iPc	10	58.33	0.8					SS	20	49.00		AQU		43.95	296	P	11	31.90	3.9X
HKC		40.24	98	iP	10	59.60	1.7	CN2		42.26	62	iPc	11	14.00	-0.2	AZI		44.00	296	P	11	31.00	2.7X
				iS	17	00.00				6.0s	5400.00nm				6.4mb X	MNO		44.01	290	P	11	30.40	1.7
DL2		40.32	70	iPc	10	59.50	1.1					pP	11	52.50	176kmX	VVI		44.02	302	P	11	30.10	1.6
		6.0s	********	nm			6.7mb X					S	17	23.00		MEU		44.05	289	P	11	30.30	1.4
	Z	27s	18.70um				5.8MszX	TDS		42.34	292	P	11	17.45	2.5X	MOX		44.06	308	eP+	11	28.00	-0.7
	N	12s	19.70um							1.8s	3344.50nm				6.7mb			1.8s	1615.00nm			6.4mb	
	E	12s	10.10um					GRI		42.47	291	P	11	17.47	1.4				ipP	12	02.00	152kmX	
				S	16	58.00				0.7s	632.70nm				6.4mb				isP	12	21.00		
ZST		40.63	305	eP	11	00.50	-0.3	LJU		42.56	301	eP	11	16.80	0.2				iS	17	54.00		
				i	11	02.70	7kmX					i	11	18.90	7kmX	ARV		44.06	298	Pc	11	30.70	1.8
				i	11	42.50						eS	17	32.00		PZI		44.08	289	P	11	30.34	1.2
				i	12	11.60		BRG		42.57	309	iP	11	16.00	-0.7			1.3s	2439.30nm			6.7mb	
				i	12	43.30				1.2s	640.00nm				6.2mb	RSM		44.34	299	P	11	36.70	5.7X
LCI		40.99	292	Pc	11	04.80	1.0					i	11	18.40		ASS		44.35	298	P	11	33.80	2.6X
KSP		41.08	309	iPc	11	04.40	-0.1					ipP	11	48.00	143kmX	GRF		44.39	307	iPc	11	31.80	0.4
		1.2s	402.00nm				6.0mb					i	15	36.00					ic	11	37.40		
				ic	11	06.30	6kmX					iS	17	40.00					epP	12	06.00	153kmX	
				i	11	09.80						isS	18	28.00					e	12	15.30		
				i	11	15.30						i	21	08.00					eS	17	58.00		
				i	13	11.00						eP'P'	43	14.00					e	18	55.00		
KEV		41.10	339	ePc	11	04.24	-0.1	QZH		42.58	91	iPc	11	17.00	0.0	WATA		44.42	304	iPc	11	30.30	-1.5
				esPd	11	50.92				6.0s	5700.00nm				6.4mb X			0.8s	395.00nm			6.1mb	
				ePP	12	46.45			Z	36s	59.40um				6.2MszX				i	11	32.30	7kmX	
				eS	17	08.34			N	36s	70.90um								i	11	36.20		
				e	17	50.00			E	36s	67.40um								i	12	06.70		
				e	19	00.00						pP	11	50.00	148kmX				i	12	18.90		
				e	20	00.00						iS	17	28.00		MNS		44.47	297	P	11	32.10	0.0
VKA		41.15	305	iPc	11	04.20	-0.9					isS	18	24.00		GIB		44.50	290	P	11	33.10	0.6
		2.5s	3545.00nm				6.6mb	KMR		42.62	304	iP+	11	17.00	-0.1	NB2		44.51	323	P	11	30.50	-1.7
	Z	18s	32.20um				6.2Msz					ipP	11	53.30	165kmX	FUR		44.52	305	iPc	11	32.40	0.0
				i	11	07.50						iPP	13	05.80			Z	18s	71.00um			6.6Msz	
				i	11	11.00						ipPP	13	31.60					i	11	34.40	7kmX	
				ipP	11	42.00	173kmX					i	21	08.60		CTI		44.55	302	Pc	11	34.00	1.2
				i	12	41.40		CEY		42.67	301	eP	11	17.50	-0.1	RDP		44.57	296	P	11	34.30	1.3
				iPP	12	54.20		RIY		42.75	300	iPc	11	19.20	1.1	RMP		44.57	296	P	11	34.10	1.2
				i	12	58.80		KHC		42.90	306	iPc	11	20.00	0.6	SOTA		44.68	304	iPc	11	32.40	-1.5
				iS	17	16.00				1.4s	330.00nm				5.8mb			0.4s	119.00nm			5.9mb	
				i	18	09.00			Z	17s	45.60um				6.4MszX				i	11	34.40		
				iSS	20	25.00			N	17s	61.00um								i	11	38.40		
				LR	31	45.00			E	17s	32.60um								ipP	12	06.80	154kmX	
UPP		41.19	322	iP	11	04.20	-1.0					e	11	55.00	158kmX				isP	12	19.20		
				i	11	05.10	3kmX					S	17	38.00		NSS		44.68	328	eP	11	32.42	-1.0
				i	11	06.10		SGO		42.92	293	P	11	21.70	2.2	CRE		44.75	298	P	11	36.20	1.8
				iS	17	07.00		SOI		42.93	290	P	11	21.13	1.4	SFI		44.76	299	P	11	36.80	2.5X
SNY		41.22	65	iPc	11	05.60	-0.1			1.8s	2783.00nm				6.6mb	ANP		44.84	89	iPc	11	34.00	-1.3
		1.4s	700.00nm				6.1mb	BRN		42.99	311	eP	11	20.00	0.0	OGA		44.85	303	iPc	11	34.30	-1.0
	Z	26s	49.80um				6.3MszX					ic	11	22.50		LOF		44.89	334	iPd	11	34.13	-0.9
	E	12s	23.80um									epP	11	56.00	163kmX	MCT		44.90	290	P	11	37.61	1.9
				pP	11	34.00	125kmX	VOY		43.00	302	eP	11	18.80	-1.5			1.8s	3501.30nm			6.7mb	
				iS	17	04.00		TRI		43.13	301	iP	11	20.50	-0.8	USI		44.95	291	P	11	38.60	2.7X
BRT		41.44	293	Pc	11	10.40	2.8X					i	11	22.50	7kmX	FAI		44.96	289	P	11	38.90	2.9X
ZAG		41.58	301	iPd	11	09.50	0.9					iPP	13	04.00		MDJ		45.06	60	Pc	11	36.00	-0.7
PTJ		41.59	301	iPc	11	08.40	-0.4					iPPP	13	44.00				2.0s	3250.00nm			6.6mb	
HVAR		41.60	297	iP	11	07.90	-0.9					iS	17	49.00			Z	20s	39.70um			6.3Msz	
BAI		41.65	294	Pc	11	10.00	0.8					iSS	20	43.00					pP	12	14.00	172kmX	
KTK1		41.89	337	eP	11	10.56	-0.4	CLL		43.15	309	iPc	11	20.50	-0.8				sS	19	00.00		

31d 23h

RGS	45.11	326	iP	11	35.50	-1.4	STV	47.89	300	P	11	57.80	-1.3	EBH	52.36	317	ePc	12	30.90	-1.8
KONO	45.19	321	eP	11	39.50	2.0	SBF	47.90	300	iPc	11	58.20	-0.9		0.8s	400.00nm			6.3mb	
FIR	45.21	299	iPc	11	39.50	1.6	DBN	47.93	311	iP	12	00.00	0.9	ESK	52.36	316	ePc	12	33.00	0.3
			i	12	15.00	159kmX	Z	20s	23.00um			6.2Msz			1.0s	480.00nm			6.3mb	
			iPP	13	20.00					ipP	12	33.00	145kmX	EAU	52.40	317	ePc	12	32.50	-0.5
			iPPP	14	00.00					esP	12	52.00		MFF	52.43	305	iPc	12	31.80	-1.5
			iS	18	15.00					ipPP	14	23.00		ELO	52.43	318	ePc	12	31.00	-2.2
			i	18	50.00					eS	18	48.00		GRR	52.44	307	eP	12	31.60	-1.8
SAL	45.39	301	P	11	41.40	2.1				esS	19	42.00		MLS	52.60	300	P	12	34.96	0.3
OSS	45.48	303	ePc	11	39.20	-1.0				eSS	22	35.00		LPF	52.64	307	eP	12	33.00	-1.9
KGM	45.50	130	iPc	11	41.50	1.1	ZGN	47.96	289	iP	11	58.80	-0.9	EAB	52.82	317	ePc	12	34.00	-2.1
			i	11	57.50	63kmX	AURF	47.97	300	P	12	00.94	1.3	JNW	52.83	336	iPc	12	38.00	2.1
			i	12	29.20		REVF	47.98	300	P	12	00.68	1.0	EPF	53.10	300	iPc	12	36.40	-2.9
CVT	45.53	290	Pc	11	41.40	1.0	PZZ	47.99	301	P	11	57.42	-2.5X		0.5s	125.25nm			6.0mb	
MME	45.53	299	P	11	43.10	2.4	TOUF	48.00	300	P	12	01.53	1.5	YSS	53.46	54	iPc	12	40.00	-0.8
MAO	45.57	297	P	11	42.00	1.2	VITF	48.01	306	P	12	00.89	1.1				iS	20	02.00	
ERC	45.58	291	P	11	42.70	1.7	LPG	48.02	302	iPc	11	59.40	-0.9	BTH	53.46	301	Pc	12	41.60	0.7
BDI	45.63	299	P	11	43.00	1.7		0.8s	587.65nm			6.4mb					i	12	43.60	
PII	45.75	299	P	11	42.90	0.8	LPL	48.03	302	iPc	11	59.70	-0.6				e	13	01.40	
STU	45.81	306	iPc	11	42.20	-0.4	MVIF	48.09	300	P	12	01.87	1.2				pP	13	14.60	142kmX
	1.0s	600.00nm			6.2mb		RRL	48.12	301	P	12	00.26	-0.7				sP	13	29.40	
Z	16s	33.67um			6.4MszX		BNI	48.17	301	P	12	02.20	1.0				i	13	36.40	
MDI	45.93	302	P	11	45.80	2.3	FOUF	48.21	301	iPc	12	00.70	-0.6				i	13	39.50	
SAX	45.93	304	ePc	11	42.90	-1.0				i	12	02.58					epPP	15	19.00	
VDL	45.97	303	ePc	11	43.00	-1.1				e(pP)	12	49.86	226kmX				esPP	15	37.00	
TNS	46.12	308	ePc	11	46.30	1.2	CALN	48.31	300	P	12	03.46	1.1				eS	20	00.00	
			ePPP	14	36.00		BAG	48.47	100	ePc+	12	04.00	0.1				ePKKP	34	31.00	
LLS	46.23	303	ePc	11	44.70	-1.5		1.6s	1373.33nm			6.5mb		MAJO	53.57	68	ePc	12	40.24	-1.7
BOB	46.30	301	P	11	48.50	1.9				eS	18	54.00					e	13	18.64	168kmX
MOL	46.39	325	eP	11	46.42	-0.5	FRF	48.53	299	iPc	12	02.80	-1.0				esPd	13	29.24	
PTS	46.39	289	Pc	11	50.70	3.4X	NAI	48.53	228	ePd	12	11.00	6.6X				eS	19	54.51	
TIK	46.41	22	iPc	11	47.00	0.0		1.5s	152.78nm			5.5mb					isS	21	00.06	
			eS	18	24.00					iS	19	10.00					eScS	22	19.85	
SLE	46.42	305	ePc	11	46.10	-1.4	LMR	48.68	299	eP	12	03.70	-1.3				esScP	23	15.80	
ZLA	46.54	304	ePc	11	46.90	-1.5	LRG	48.75	299	iPc	12	04.60	-1.0	MAT	53.57	68	iPc	12	40.40	-1.5
ODD1	46.70	322	eP	11	49.68	0.2		1.6s	1263.20nm			6.4mb			1.0s	530.00nm			6.4mb	
FEL	46.73	305	P	11	50.68	0.7	TAVF	48.93	300	P	12	09.82	2.8X				eS	20	04.00	
ABH	46.74	308	eP	11	47.78	-2.2	KBS	49.00	347	iPc	12	03.50	-3.6X	JAU	53.59	301	P	12	43.44	1.3
STR	46.78	306	P	11	51.71	1.5	VILF	49.11	300	P	12	11.67	3.2X	OGE	53.63	301	P	12	42.38	0.2
GWF	46.81	307	P	11	52.16	1.6	CDR	49.12	300	i(P)c	12	07.50	-0.9	SAP	53.67	59	eP	12	42.00	-0.4
BNS	46.84	309	ePc	11	49.30	-1.3				i	12	09.40	6kmX				eS	20	05.00	
	1.7s	2130.00nm			6.5mb					i	12	13.50		EBR	53.69	298	iP	12	41.50	-1.1
Z	43s	160.00um			6.6MszX					i	12	42.70					iS	20	10.00	
			i	11	55.50	21kmX				i	13	04.20		ESCF	53.73	301	P	12	44.24	1.3
WTS	46.95	311	iPc	11	53.00	1.5				i	14	39.00		LHE	53.81	301	P	12	44.83	1.2
	1.2s	1103.00nm			6.4mb		PUYF	49.20	300	P	12	11.97	2.9X	ATE	53.81	301	P	12	43.85	0.3
			e	12	27.00	151kmX	BERF	49.26	299	P	12	12.36	2.7X	MADF	53.88	301	P	12	44.09	0.0
			e	14	19.00		TREF	49.40	300	P	12	13.66	3.1X	ISSF	53.89	301	P	12	45.56	1.2
WIT	46.95	312	iPc	11	53.00	1.5	GELF	49.43	300	P	12	13.57	2.7X	ELYF	53.99	301	P	12	44.91	0.0
HYA	46.95	323	eP	11	51.67	0.3	PRAF	49.51	300	P	12	14.37	2.9X	TSM	54.01	114	iPd	12	44.30	-1.0
PCP	46.97	300	P	11	50.31	-1.6	LBF	49.58	304	iPc	12	10.60	-1.4		1.0s	2036.70nm			6.9mb	
PLH	47.05	309	ePd	11	52.40	0.1	SSB	49.59	302	P	12	11.16	-0.8	BOH	54.02	301	P	12	45.43	0.2
MMK	47.08	303	ePc	11	51.50	-1.4	LOR	49.60	305	eP	12	10.70	-1.4	LWI	54.33	235	iPc	12	47.00	-1.0
WLS	47.08	306	P	11	53.14	0.5		1.4s	544.55nm			6.1mb		BST	54.52	308	P	12	48.90	0.2
PGF	47.09	298	iPc	11	51.60	-1.3	SMF	49.75	304	iPc	12	12.10	-1.1	ECHE	55.16	297	iPc	12	52.90	-0.5
CDF	47.13	306	iPc	11	51.80	-1.3	QCP	49.86	102	eP	12	24.50	10.2X	ECRI	55.22	301	iPc	12	53.00	-0.9
BBS	47.13	304	P	11	53.46	0.4	SSF	49.88	305	iPc	12	13.00	-1.2	ETOR	55.51	299	eP	12	54.40	-1.6
ORX	47.14	302	P	11	50.93	-2.4X	AVF	50.04	304	iPc	12	14.40	-1.0	EALH	56.11	295	iPc	13	00.90	0.7
ORO	47.15	302	P	11	52.70	-0.6	PLDF	50.05	303	P	12	16.53	1.0	EVIA	56.61	296	iPc	13	02.50	-1.4
CKI	47.18	300	P	11	54.20	0.7	SHK	50.07	72	iPc	12	15.20	-0.6	ENIJ	57.03	294	iPc	13	05.20	-1.6
ECH	47.24	306	P	11	54.50	0.6		1.0s	560.00nm			6.3mb		BCAO	57.05	249	iPc	13	04.50	-2.6X
FIN	47.28	300	P	11	52.47	-1.8	BGF	50.44	304	iPc	12	17.30	-1.1		0.7s	81.00nm			5.8mb	
MOF	47.31	305	P	11	55.43	0.9	LBL	50.48	302	P	12	20.24	1.5				id	16	15.80	
BER	47.35	322	iP	11	55.29	0.8	PYM	50.52	303	P	12	20.20	1.1	GUD	57.06	299	iPc	13	05.60	-1.5
ASK	47.42	322	eP	11	54.02	-1.0	MAF	50.71	304	iPc	12	19.60	-0.9	AKU	57.23	331	iP	13	09.80	2.1
MBZ	47.44	289	iP	11	54.80	-0.8	TCF	50.93	304	iPc	12	21.40	-0.8		2.0s	2988.24nm			6.9mb	
DIX	47.45	303	ePc	11	54.80	-1.1	CAF	51.37	302	iPc	12	24.90	-0.7				i	14	00.20	224kmX
ROB	47.50	300	P	11	54.01	-2.0	LSF	51.40	304	iPc	12	24.20	-1.5	VAL	57.25	313	iP	13	08.40	0.3
FOO	47.51	324	eP	11	56.65	0.9	ETER	51.54	299	iPc	12	25.30	-1.5				S	23	21.00	
BSF	47.54	305	iPc	11	55.20	-1.2	RJF	51.65	303	iPc	12	27.10	-0.5	TOL	57.27	298	ePc	13	06.84	-1.5
IMI	47.57	300	P	11	55.62	-1.0	Z	20s	22.50um			6.2Msz					ipP	13	44.00	160kmX
FRO	47.59	324	eP	11	57.13	0.8	EDR	51.72	318	ePc	12	27.70	-0.2				esPd	13	55.01	
LOMF	47.61	304	P	11	57.30	0.5	LDF	51.91	307	eP	12	27.90	-1.6				iPP	15	23.00	
SUE	47.64	323	eP	11	56.50	-0.2	ESY	51.92	317	ePc	12	27.60	-1.9				iPPP	17	10.00	
ENN	47.65	309	iPc	11	58.00	1.0	EDU	52.03	318	ePc	12	29.40	-0.9				e	20	26.63	
	1.0s	305.00nm			6.0mb			0.9s	481.00nm			6.3mb					eS	21	00.07	
			e	12	30.00	140kmX	LPO	52.04	302	iPc	12	29.60	-0.9				esS	21	51.00	
RSP	47.74	301	P	11	54.10	-3.9X	FLN	52.10	308	eP	12	29.20	-1.7				iSS	21	56.00	
LSD	47.75	302	P	11	56.57	-1.6		0.7s	241.15nm			6.1mb					eScS	22	46.16	
EMS	47.78	303	ePc	11	57.40	-0.9	Z	20s	35.00um			6.4Msz					iPS	22	55.00	
SAOF	47.79	300	P	11	59.58	1.4	EBL	52.18	317	ePc	12	29.70	-1.7				i	23	45.76	
HAU	47.81	305	iPc	11	57.00	-1.3	EDI	52.24	317	ePc	12	30.90	-0.9				iSS	25	43.00	
	1.4s	1021.05nm			6.4mb			0.8s	311.00nm			6.2mb		EBAN	57.72	296	iPc	13	10.10	-1.5
ENR	47.83	300	P	11	56.76	-1.8	LFF	52.27	303	iPc	12	31.50	-0.7	DAV	57.89	106	eP	13	14.00	1.0
KCHT	47.85	290	iP	11	57.80	-1.0	ESEL	52.29	296	iPc	12	31.60	-0.8	AFC	57.90	295	iPc	13	10.90	-2.1
AUTN	47.88	300	P	12	00.54	1.4	EKA	52.33	316	Pd	12	32.10	-0.4	ECOG	57.91	295	eP	13	11.10	-1.9
DOI	47.89	301	P	11	58.50	-0.6		0.8s	139.10nm			5.8mb		EMEL	58.24	293	iPc	13	15.40	0.2

31d 23h

EMON	58.25	303	eP	13	15.80	0.6	KIC	74.29	266	Pc	14	55.16	-2.1					pP	17	15.00	153kmX		
ERUA	58.51	302	iPc	13	16.00	-1.0		0.5s		93.50nm			5.8mb	HRV	94.51	333	ePc	16	43.25	4.4X			
EPLA	58.64	299	iPc	13	17.20	-0.8				S	24	22.00					eHPP	20	27.08				
MAL	58.75	295	iPc	13	16.00	-2.7X	TIC	74.35	267	Pc	14	55.54	-2.1				ePP	20	34.03				
			i	13	18.80	9kmX		0.6s		90.00nm			5.7mb				eS	27	45.45				
			iS	21	10.00		INK	74.48	9	iPc	14	56.80	-0.6				esS	28	42.84				
EHOR	58.92	296	iPc	13	18.30	-1.6		0.6s		420.00nm			6.4mb	PNT	94.60	7	ePc	16	38.00	-1.2			
REY	59.25	329	iP	13	23.70	2.0	LIC	74.60	267	Pc	14	56.98	-2.0		0.8s	264	.00nm			6.6mb			
STS	59.29	303	eP	13	21.10	-1.2		0.5s		109.50nm			5.9mb	PGC	94.83	9	eP	16	42.00	1.8			
LIJA	59.41	295	eP	13	21.00	-2.4	TTA	74.66	20	iPc	14	58.70	0.0	ADE	95.01	130	e(P)	16	40.70	-0.4			
EJIF	59.64	295	eP	13	24.20	-0.6	ADK	74.72	36	eP	14	56.20	-2.8X		1.1s	108	.86nm			6.1mb			
EZAM	59.67	302	iPc	13	25.80	0.9		1.6s	1242	.50nm			6.4mb	HNR	95.08	98	eP	16	40.00	-1.8			
OJEN	59.83	295	eP	13	25.50	-0.7	BFS	74.88	220	iPc	14	54.00	-6.4X	NEW	95.85	5	eP	16	45.10	0.1			
GIBL	59.84	296	eP	13	22.00	-4.2X	FBA	75.08	16	iPc	15	00.90	-0.1		1.5s	320	.70nm			6.5mb			
MOMI	59.87	295	eP	13	26.50	0.1		1.5s	2239	.60nm			6.7mb				epP	17	24.20	153kmX			
PLAT	59.99	295	eP	13	27.00	-0.2	KNA	75.40	122	eP	15	02.80	-0.6				i	20	59.50				
PTO	60.00	301	iPc	13	28.30	1.2		0.5s		500.00nm			6.5mb	GMW	96.00	9	P	16	47.80	2.2			
			iS	21	33.00		FRB	75.41	342	ePc	15	01.70	-1.1	RMW	96.20	8	P	16	47.60	1.0			
CNIL	60.10	295	eP	13	27.00	-0.9		0.7s		505.00nm			6.4mb	RMO	96.46	118	eP	16	49.00	1.2			
EVAL	60.10	297	iPc	13	26.40	-1.6	SEK	75.61	218	iPc	15	05.20	0.6	TBR	96.67	334	P	16	49.00	0.3			
IFR	60.62	292	iPc	13	31.00	-0.8		1.0s	6600	.00nm			7.3mb	PNJ	96.85	334	eP	16	50.20	0.7			
			i	13	33.00	7kmX				i	15	41.50	147kmX				i	16	54.20				
			i	14	10.00		RND	76.12	17	ePc	15	05.10	-1.8				pP	17	29.80	155kmX			
PET	61.22	44	iPc	13	33.00	-2.3	SVW	76.23	21	ePc	15	07.90	0.4				sP	17	59.50				
			eS	21	40.00		BLF	76.98	219	iPd	15	11.00	-1.2	GMTN	96.88	334	eP	16	52.70	3.1X			
LIS	61.36	299	iPd	13	36.90	0.4				i	15	47.50	147kmX	LDN	96.90	8	ePc	16	50.40	0.6			
MKS	61.54	121	iPc	13	37.00	-1.0	WIN	77.03	230	iPc	15	12.50	-0.1				esPd	17	39.73				
	1.0s	1137	.10nm			6.8mb		1.4s	8139	.53nm			7.3mb				ePP	20	54.54				
AVE	62.43	293	iPc	13	42.20	-1.4		Z 20s		16.52um			6.3Msz	LDN	97.19	339	P	16	51.60	0.6			
			i	14	20.00	159kmX				i	15	48.00	142kmX	CMS	97.44	124	e(P)	16	48.00	-4.1X			
SONG	62.46	222	eP	13	51.60	7.6X	MEKA	77.05	137	eP	15	12.40	-0.1				e	17	26.00	148kmX			
			e	23	04.60		PMR	77.59	18	ePc	15	14.50	-0.4	DLA	97.47	340	P	16	52.60	0.3			
TIO	63.39	290	iP	13	49.00	-1.2		1.4s	924	.60nm			6.3mb	SCP	98.22	336	ePc	16	58.15	2.4			
			i	14	23.50	144kmX	PDB	77.71	21	P	15	15.20	-0.5				eHPP	20	58.33				
ILT	64.39	23	iPc	13	55.00	-1.0	MRWA	77.75	140	iPd	15	15.70	-0.6				ePP	20	59.98				
			iS	22	28.00		TOA	77.87	17	iPc	15	17.40	0.8	LRM	98.52	2	ePd	16	57.10	-0.2			
KRI	65.20	224	iPc	13	59.30	-2.6X	KLU	78.46	17	P	15	19.70	-0.2				epP	17	36.70	156kmX			
			iP'P'	42	45.30					pP	15	57.00	150kmX	CLE	98.72	339	iP	17	01.80	3.8X			
AAI	66.78	113	eP	14	11.90	-0.1	HVD	78.54	218	iPd	15	18.50	-2.2	BFD	98.81	130	eP	17	03.00	4.9X			
			eS	14	50.50			1.0s	500	.00nm			6.2mb				i	17	37.00	131kmX			
MBC	67.86	3	iPc	14	17.00	-0.9				i	15	55.00	147kmX	COR	98.84	10	ePc	17	03.87	5.5X			
	0.5s	189	.00nm			6.2mb	SDN	79.15	27	eP	15	23.40	-0.1				esPd	17	49.89				
BRW	67.91	15	iPc	14	18.30	0.1	BAL	79.23	141	iPd	15	23.30	-1.0				ePP	21	09.83				
KUPT	67.91	122	eP	14	18.50	-0.5	MUN	80.08	142	iPd	15	27.80	-1.0				eSKS	27	26.79				
	0.7s	2384	.00nm			7.1mb	MID	80.17	18	eP	15	51.10	22.2X				eSDIF	28	29.70				
BUL	68.43	222	iPc	14	24.20	1.9	MNDI	80.20	105	eP	15	33.00	2.9X				ePS	30	42.13				
			iPcP	14	30.90	155kmX	KLB	80.56	140	P	15	30.50	-0.8	BRS	99.89	117	eP	16	49.00	-14.3X			
			i	15	01.50		NWAO	81.36	142	iPc	15	34.50	-0.9				e	17	03.00	47kmX			
			iS	23	24.80		WARB	81.47	131	iPc	15	36.30	0.1				i	17	08.00				
SMY	69.65	39	ePc	14	29.80	0.7	YKA	81.77	2	eP	15	36.10	-1.1				i	17	37.00				
	1.7s	5912	.50nm			7.1mb		1.0s	225	.40nm			5.9mb				eS	27	15.00				
GUA	69.69	88	eP	14	28.50	-1.5	COOL	81.80	138	P	15	37.50	-0.3				e(SKS)	28	30.00				
	0.6s	186	.67nm			6.1mb	WRA	82.12	121	P	15	39.00	-0.7	RSSD	100.10	356	Pdiff	17	04.20	-0.1			
			e	15	08.80	168kmX		1.0s		278.40nm			6.0mb		1.5s	138	.25nm			6.3mb			
			eS	23	27.50		RKG	82.16	143	iPc	15	41.20	1.6		Z 22s		65.61um			7.1Msz			
CFTV	69.80	291	iPd	14	30.60	0.1		0.5s		263.00nm			6.3mb	CBN	100.38	335	ePdiff	17	09.00	3.7X			
			i	14	33.00	8kmX	SCH	82.37	337	ePc	15	39.90	-0.7	TOO	100.91	129	e(Pdif	17	06.00	-1.8			
SHGH	70.75	263	eP	14	35.50	-0.9		1.2s		733.00nm			6.3mb				e	17	18.00				
			S	23	45.00					pP	16	18.00	152kmX				eTT	32	22.00				
KOGH	70.82	263	eP	14	35.00	-1.9	CRZF	83.73	193	iPd	16	03.00	15.7X	CVL	100.96	335	Pdiff	17	08.70	0.8			
			S	23	50.00					eS	26	24.00					pP	17	48.00				
KUK	70.86	264	eP	14	33.80	-3.3X	CER	83.93	221	iPd	15	47.50	-1.2	COO	101.09	120	ePdiff	17	04.00	-4.8X			
TEGH	70.88	263	eP	14	37.50	0.3				i	16	25.00	149kmX	BW06	101.60	360	ePdiff	17	10.80	-0.2			
LEGH	71.02	263	eP	14	37.00	-1.1	ASPA	84.35	124	iPc	15	50.30	-0.7				e	30	09.90				
			e	23	47.00			1.4s	288	.20nm			5.9mb				i	31	15.00				
GGC	71.12	291	iPc	14	39.50	0.9				ipP	16	27.80	149kmX	CNB	102.09	125	e(Pdif	17	15.00	1.9			
			i	14	42.30	9kmX				eS	25	58.40					e	17	50.00				
WEGH	71.17	263	eP	14	38.50	-0.5	SIT	84.78	14	ePc	15	55.30	2.7X	WDC	102.87	10	ePdiff	17	17.30	0.9			
			S	23	49.00		PMG	84.91	105	eP	15	53.00	-0.9				e	17	54.70				
CTFE	71.41	292	eP	14	40.00	-0.2	FORR	85.73	133	iPc	15	57.20	-0.4	DAU	103.95	1	Pdiff	17	23.80	2.2			
			i	14	43.20	10kmX	QIS	86.22	119	iPc	15	59.00	-1.3	CCM	104.39	345	ePdiff	17	27.89	4.7X			
BFT	72.23	218	iPc	14	44.50	-0.7				e	16	34.00	137kmX				esPd	18	13.58				
			i	15	11.00	104kmX	FFC	89.41	356	iPc	16	14.70	-0.4				ePP	21	51.07				
TBT	72.54	293	iPc	14	48.00	1.1		0.8s		75.00nm			5.8mb				eSKS	27	52.57				
			i	14	51.00	10kmX	CBM	89.45	333	P	16	16.00	0.5				eSDIF	29	08.99				
IMA	72.74	17	ePc	14	47.20	-0.4				pP	16	56.00	158kmX				esS	30	04.44				
	1.9s	2057	.40nm			6.5mb	EDM	91.09	2	iPc	16	23.00	0.0				ePS	31	33.56				
CHIE	73.08	292	eP	14	51.30	1.3	BNH	92.59	334	P	16	30.80	0.8	GLD	104.52	357	ePdiff	17	25.00	1.0			
SLR	73.16	219	ePc	14	48.55	-2.0	GAC	93.05	337	ePc	16	32.40	0.4		Z 22s		42.87um			6.9Msz			
			isPc	15	38.05			1.0s		85.00nm			5.9mb	GOL	104.58	357	Pdiff	17	35.00	10.7X			
EVA	73.39	218	iPc	14	52.00	0.1	HBVT	93.43	335	P	16	36.80	2.9X		Z 22s		41.12um			6.9Msz			
			i	15	28.00	146kmX	RSNY	93.77	336	eP	16	36.50	1.1	RSCP	105.35	340	Pdiff	17	40.00	12.5X			
MBL	73.59	132	iPc	14	52.00	-0.9		Z 20s		15.82um			6.5Msz		Z 22s		16.93um			6.5Msz			
BPI	73.65	219	iPc	14	49.50	-3.9X				i	17	29.00	213kmX	BRK	105.57	10	ePdiff	17	30.00	1.6			
KSR	73.98	220	iPc	14	53.50	-1.9				e	17	44.50					e	18	26.00				
	1.0s	*******	nm			7.6mb X	SES	93.97	1	eP	16	36.00	-0.3				ePP	21	56.00				
			i	15	28.00	139kmX		1.1s	566	.00nm			6.7mb				ePPP	24	16.00				

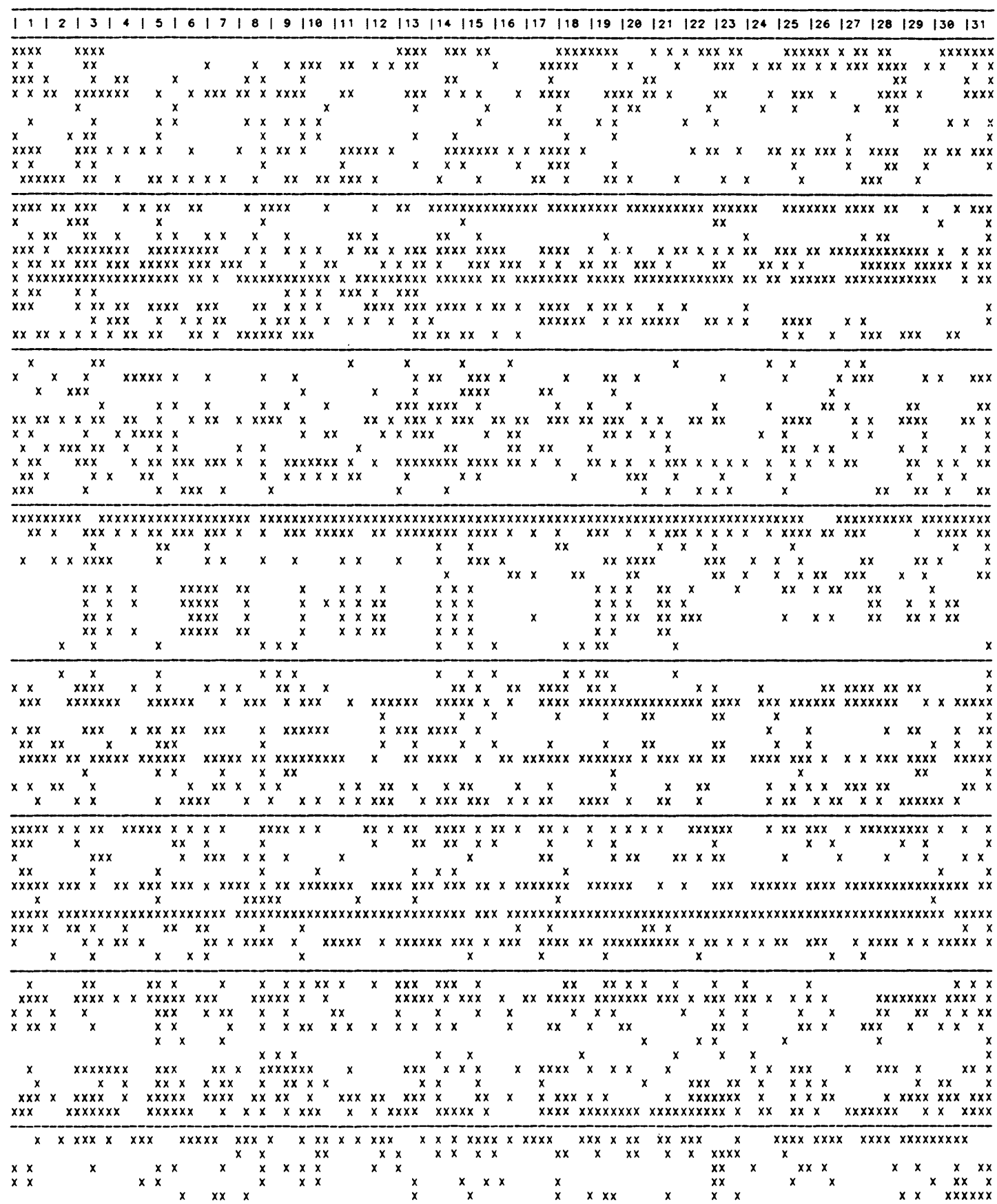
31d 23h

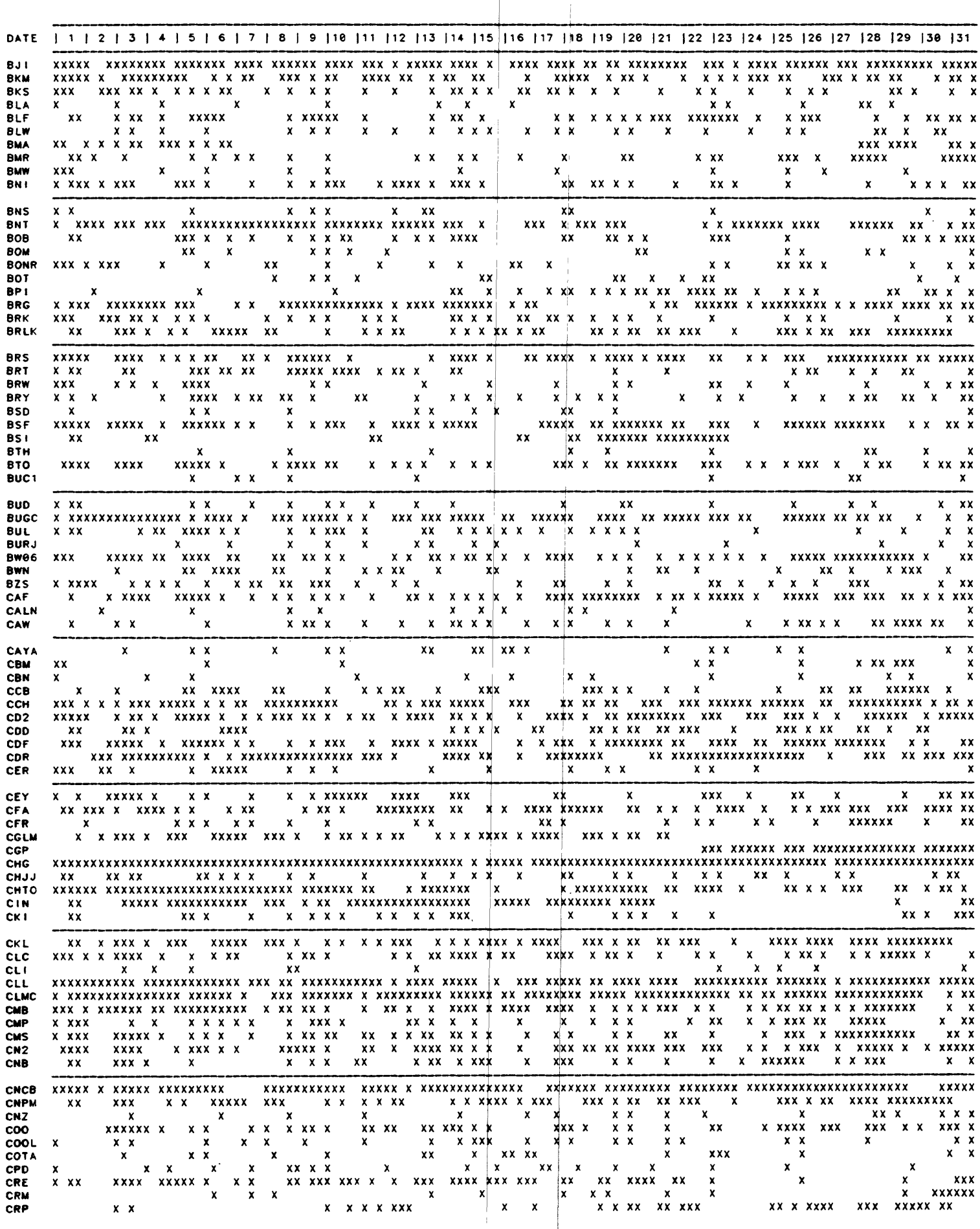
			e(PS)	31	02.00						e	22	24.20					i	23	04.50		
			eLQ	46	51.00			WDW	122.56	120	PKP	22	10.30	-3.0X		ROCH	148.20	264	ePKP	23	02.50	1.6
BKS	105.57	10	ePdiff	17	08.80	-19.6X					e	22	14.20			TACH	148.33	263	ePKP	23	03.20	2.4
	1.1s		71.00nm					MTW	122.88	120	PKP	22	12.50	-1.5		LNV	148.79	262	ePKP	23	01.50	0.0
			e	17	28.80			PGZ	123.23	119	PKP	22	13.20	-1.4					i	23	08.50	
			e	18	22.00			PUZ	123.73	115	PKP	22	14.40	-1.4		RKT	154.54	67	PKP	23	15.00	4.9X
			ePP	21	36.00			IIT	124.26	347	(PKP)	22	19.00	1.3			1.2s		270.00nm			
			epPP	21	52.40			PPM	124.27	347	iPKP	22	17.70	-0.3			S.D. = 1.2		on 530 of 655 obs.			
			esPP	22	08.80			III	125.09	348	iPKP	22	20.50	1.3								
			ePPP	24	20.80			BMG	125.13	314	iPKP	22	17.00	-2.3								
			eSKS	27	50.00			VNDA	125.13	165	iPKP	22	19.10	1.8		&	JAN 31, 1991		23h 28m 17.90s			
			eS	28	42.40			SPA	125.81	180	iPKPc	22	13.90	-5.2X			34.820 N			120.380 W		
			eSP	30	56.40				1.0s		115.00nm						DEPTH =	1.0km				
			e	31	02.00				Z 20s		6.31um			6.3Msz			SOUTHERN CALIFORNIA					(43)
			ePS	31	08.80						i	24	39.50				<PAS-P>. ML 3.5 (PAS).					
			ePSP	31	56.80			SBA	126.21	165	PKP	22	25.00	5.6X		BLP	0.26	184	eP	28	23.30	0.2
			eSS	36	36.80			ACX	126.63	348	(PKP)	22	24.00	2.0		BCH	0.44	34	eP	28	26.70	0.1
			eLQ	47	38.00			UPA	127.07	322	ePKP	22	23.50	0.6		SYP	0.44	131	ePc	28	27.00	0.3
CMB	105.67	9	ePdiff	17	30.30	1.4			Z 20s		4.54um			6.1Msz			ABL	0.95	88	eP	28	36.00	-1.0
			e	18	06.70						i	24	23.00			PRI	1.34	350	iPd	28	43.64	0.1
			e	18	12.80			BOG	127.67	313	ePKP	22	29.00	4.5X					eS	28	58.03	
			iPP	21	50.00			PPD	127.88	269	ePKP	22	22.10	-2.1		PRS	1.71	332	eP	28	46.50	-2.5
			isPP	22	36.00						e	22	26.50			ISA	1.77	61	eP	28	50.00	0.0
			iPPP	24	00.00						e	22	29.90			LLA	1.85	346	iPd	28	49.40	-1.7
			ePS	31	01.00			HOBC	129.10	315	ePKPc	22	26.08	-0.9		PAS	1.94	110	eP	28	51.00	-1.4
			esPS	31	42.00			BUGC	129.54	315	ePKP	22	27.39	-0.4		MWC	2.01	107	eP	28	53.00	-0.5
			iSSS	40	50.00			CLMC	129.73	315	ePKP	22	26.60	-1.6		SBB	2.11	93	eP	28	56.00	1.2
			eLQ	47	10.00			DIAC	130.00	314	ePKP	22	27.17	-1.6		SAO	2.13	336	eP	28	52.33	-2.7
TNP	105.96	6	Pdiff	17	33.10	2.7X		HOQC	130.10	315	ePKP	22	29.06	0.0		FRI	2.23	14	iPd	28	56.62	0.0
			pP	18	10.60			ANCC	130.20	315	ePKP	22	27.16	-1.8					eS	29	26.00	
FRI	106.78	8	e(Pdif	17	37.00	3.2X		SALC	130.54	314	ePKP	22	29.17	-0.6		CLC	2.48	66	eP	29	03.00	2.8
DZM	107.31	105	iPdiff	17	39.00	2.4X		SILC	130.56	314	ePKP	22	30.91	0.8		GCC	2.57	330	ePd	29	02.58	1.3
			i	21	06.00			PURC	130.87	314	ePKP	22	28.28	-2.6X		RVR	2.62	108	eP	29	04.00	1.9
PRI	107.49	9	e(Pdif	17	48.00	10.8X		PSO	132.35	314	iPKP	22	34.50	1.0		ARN	2.69	340	e(P)	29	00.00	-3.2
CLC	108.17	7	ePdiff	17	41.00	0.9		SIV	132.61	282	ePKP	22	26.00	-7.4X		GSC	2.97	80	eP	29	12.00	4.8
ISA	108.23	8	ePdiff	17	35.00	-5.4X					i	22	33.60			PLM	3.27	116	eP	29	10.00	-1.4
			e	18	17.00			CUMC	132.85	314	ePKP	22	33.97	-0.6		TPC	3.65	100	eP	29	19.00	2.2
GSC	108.75	6	ePdiff	17	45.00	2.3X		CAYA	133.63	314	ePKP	22	21.50	-14.6X		TNP	4.13	37	e(P)	29	35.00	11.2
			e	18	23.00			COTA	133.63	314	ePKP	22	22.00	-14.1X			21 obs. associated					
MEO	108.84	350	iPdiff	17	48.00	4.9X		YANA	134.13	314	ePKP	22	31.00	-6.0X								
SBB	109.26	7	ePdiff	17	50.00	5.0X		VC1	134.45	314	ePKP	22	32.00	-5.7X		•	JAN 31, 1991		23h 51m 10.16± 1.57s			
			e	18	23.00			LPA	138.32	256	ePKP-	22	42.00	-1.6			36.382 N ±13.5km		71.171 E ± 9.0km			
ANMO	109.37	357	iPdiff	17	51.39	5.8X			Z 20s		6.38um			6.4Msz			DEPTH = 206.6 ± 20.1 km					
			eSKS	28	14.13						ePP	26	12.00				4.6mb (6 obs.)					
			ePS	30	08.07						ePKS	27	05.00				AFGHANISTAN-USSR BORDER REGION					(717)
ALQ	109.37	357	ePdiff	17	35.00	-10.6X		LPB	138.44	287	PKP	22	38.00	-6.9X								
	Z 20s		24.82um			6.8Msz			1.0s		110.00nm					QUE	7.11	211	eP	52	53.50	0.6
MWC	109.70	7	ePdiff	17	39.00	-8.1X			Z 20s		11.70um			6.6Msz			0.7s		88.36nm			5.1mb
			e	18	25.00						eLR	44	32.00						eS	54	12.40	
PAS	109.76	8	iPdiff	17	51.99	4.9X		CNCB	138.51	286	PKP	22	37.00	-8.2X		NDI	9.21	145	iPc	53	20.50	0.5
			eHPP	22	21.73			PMO	139.94	69	PKP	22	43.50	-3.5X			0.5s		56.34nm			5.1mb
			ePP	22	29.32				1.3s		165.00nm								iS	54	52.50	
TPC	110.00	6	ePdiff	17	52.00	3.7X		AFR	140.01	73	PKP	22	46.00	-1.1		GKN	14.12	122	P	54	21.80	-0.8
			e	18	28.00				1.3s		85.00nm					DMN	14.69	123	P	54	30.30	0.5
PLM	110.68	7	ePdiff	17	53.00	1.6		TPT	140.14	68	PKP	22	43.90	-3.5X		KKN	14.70	122	P	54	29.60	-0.2
			e	18	30.00				1.3s		200.00nm					PKI	14.92	122	P	54	32.20	-0.5
PDCR	113.02	271	(PKP)	21	55.00	-0.9		PPT	140.19	73	PKP	22	46.00	-1.5		GUN	15.04	120	P	54	34.40	0.3
			ePP	22	47.00				1.3s		195.00nm					HYB	19.99	159	eP	55	27.00	-1.5
VUN	114.76	95	ePKP	22	02.40	3.2X		PAE	140.24	73	PKP	22	46.00	-1.5		NUR	38.00	324	eP	58	27.00	17.6X
SVA	114.81	95	ePKP	22	02.30	3.1X			1.3s		140.00nm					SOD	39.90	335	eP	58	25.00	0.1
OLLA	119.03	310	ePKP	22	08.60	1.1		PPN	140.28	73	PKP	22	46.00	-1.6		HFS	43.24	322	eP	58	51.50	-0.8
AFI	120.47	85	ePdiff	18	41.35	6.3X			1.3s		130.00nm						0.4s		5.40nm			4.4mb
			ePP	23	33.69			VAH	140.28	69	PKP	22	44.20	-3.4X		NBZ	44.56	323	P	59	02.10	-0.7
			eHPP	23	34.72				1.3s		170.00nm						0.6s		5.90nm			4.2mb
			ePPP	25	58.19			AIA	140.43	208	ePKP	22	50.10	3.7X		MBC	67.45	3	ePc	01	44.80	0.0
CEOS	120.74	311	ePKP	22	10.40	-0.4		RUV	140.44	68	PKP	22	44.40	-3.5X			0.5s		8.00nm			4.7mb
LTZ	121.23	123	PKP	22	08.80	-2.0			1.3s		150.00nm					INK	74.00	9	eP	02	25.00	0.9
JFO	121.27	265	ePKP	22	12.60	1.1		TVO	140.56	73	PKP	22	47.00	-1.2		YKA	81.36	3	eP	03	04.50	0.2
			e	22	22.50				1.3s		220.00nm						0.5s		2.00nm			4.1mb
THZ	121.29	121	PKP	22	09.70	-1.3		ARE	141.01	290	ePKP	22	45.00	-4.4X		ASPA	84.07	125	iPd	03	20.10	1.3
BDF	121.85	273	ePKP	22	15.87	3.0X		NNA	142.02	301	iPKP	22	47.00	-3.9X			S.D. = 0.8		on 15 of 16 obs.			
			eHPP	23	48.22				0.8s		55.97nm											
			ePP	23	49.21				Z 22s		2.04um			5.8Msz								
			epPP	24	36.89			PT10	142.17	301	e(PKP)	22	47.00	-4.1X								
			eSKP	25	34.83			CYA	142.45	269	e(PKP)	22	45.00	-6.3X								
			ePPP	26	22.50			TBI	143.37	81	PKP	22	59.00	6.1X								
BAO	121.90	273	ePKPc	22	07.80	-5.2X			1.0s		165.00nm											
TCW	122.04	120	PKP	22	05.40	-6.9X		CFA	145.56	265	ePKP	22	56.10	-0.4								
			e	22	10.20			RTLL	145.65	266	ePKPd	22	56.10	-0.6								
			e	22	12.80			RTCV	145.88	265	e(PKP)	22	57.50	0.5								
			e	22	20.90			RTCB	145.97	266	ePKP	22	57.90	0.7								
MRW	122.35	120	PKP	22	08.00	-4.9X		JACH	147.78	264	iPKP	23	03.00	2.9X								
			e	22	13.70						i	23	07.00									
			e	22	21.00			PCH	147.98	263	ePKP	23	02.20	1.8								
KIW	122.36	120	PKP	22	12.00	-1.0		PEL	147.99	264	ePKP	23	01.50	1.1								
BMA	122.41	264	ePKP	22	15.10	1.4					i	23	06.00									
			e	22	16.60			SAN	148.06	263	ePKP	23	03.50	3.1X								

STATION DATA REPORT FOR JANUARY, 1991

1210 stations reported 64132 reading arrival groups

X = data received for this 6-hour time period

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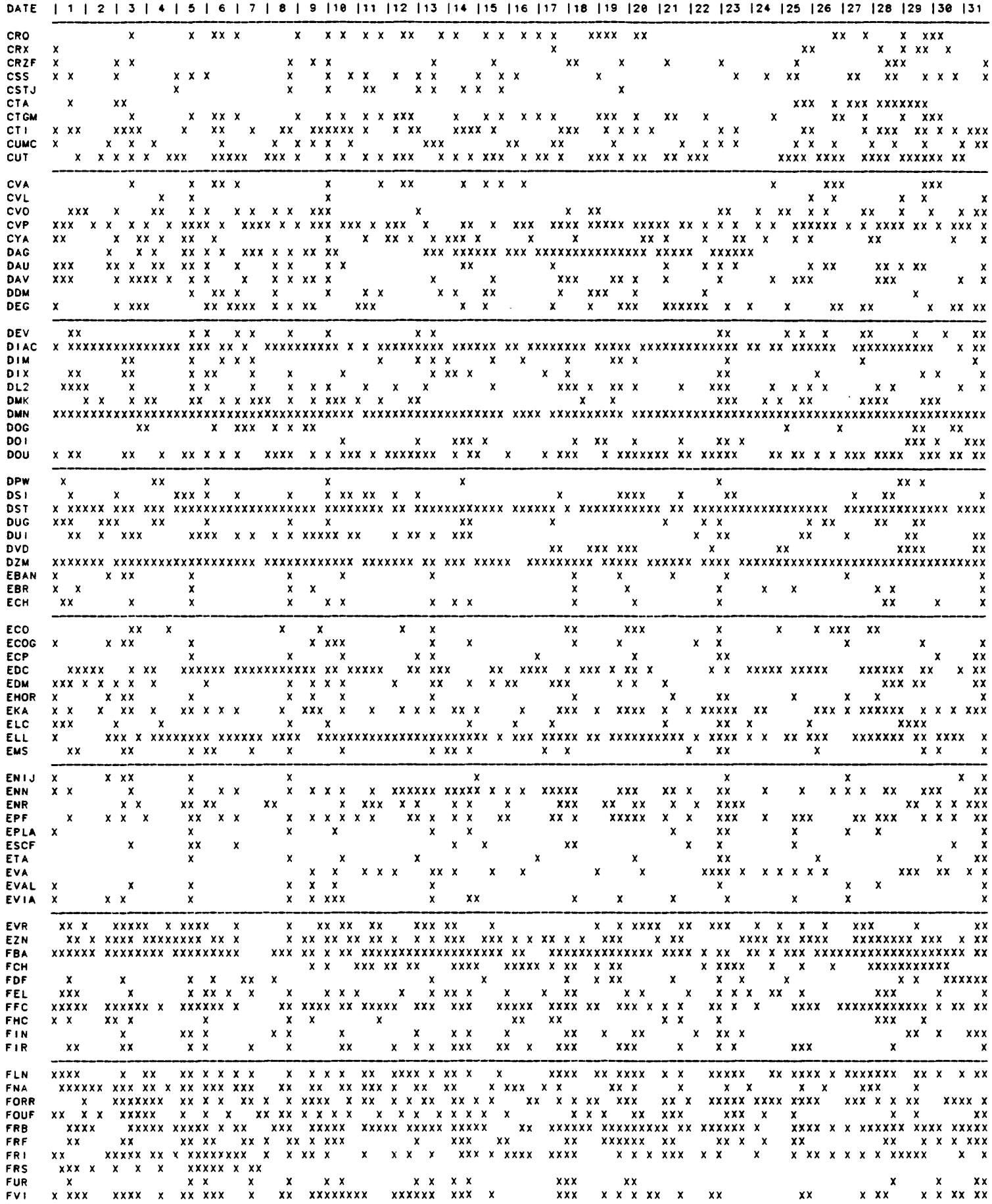
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CUMC
CUT
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CYA
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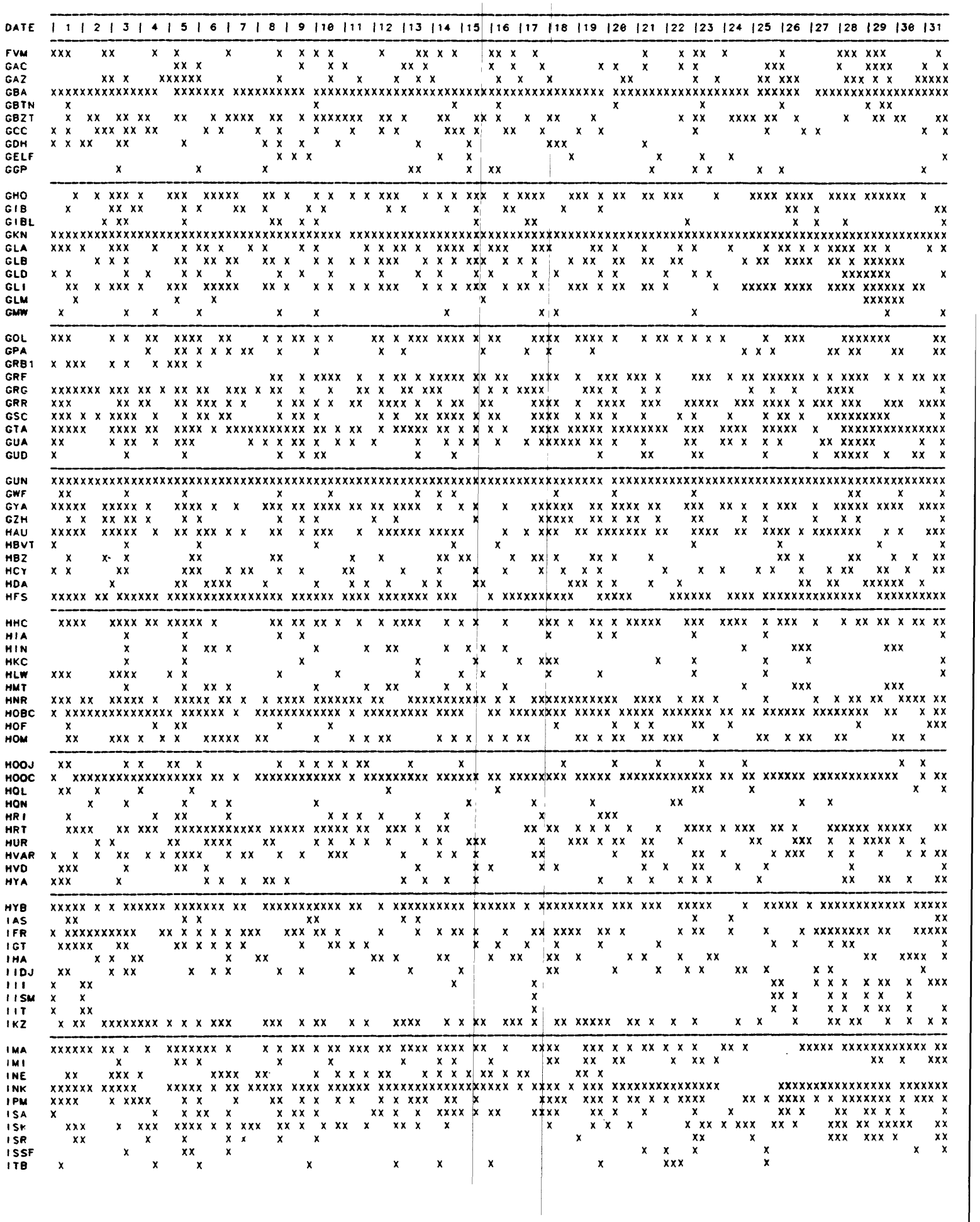
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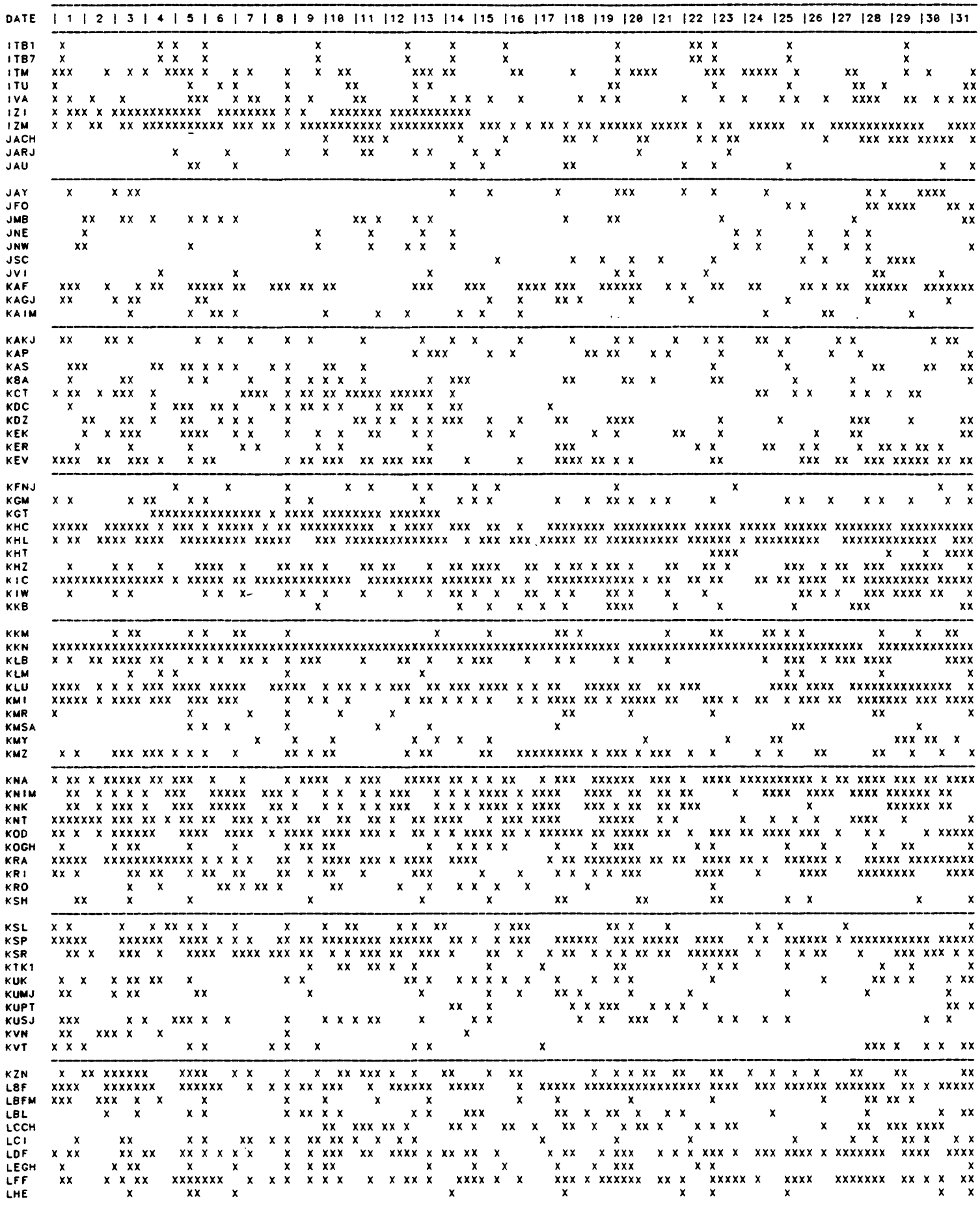
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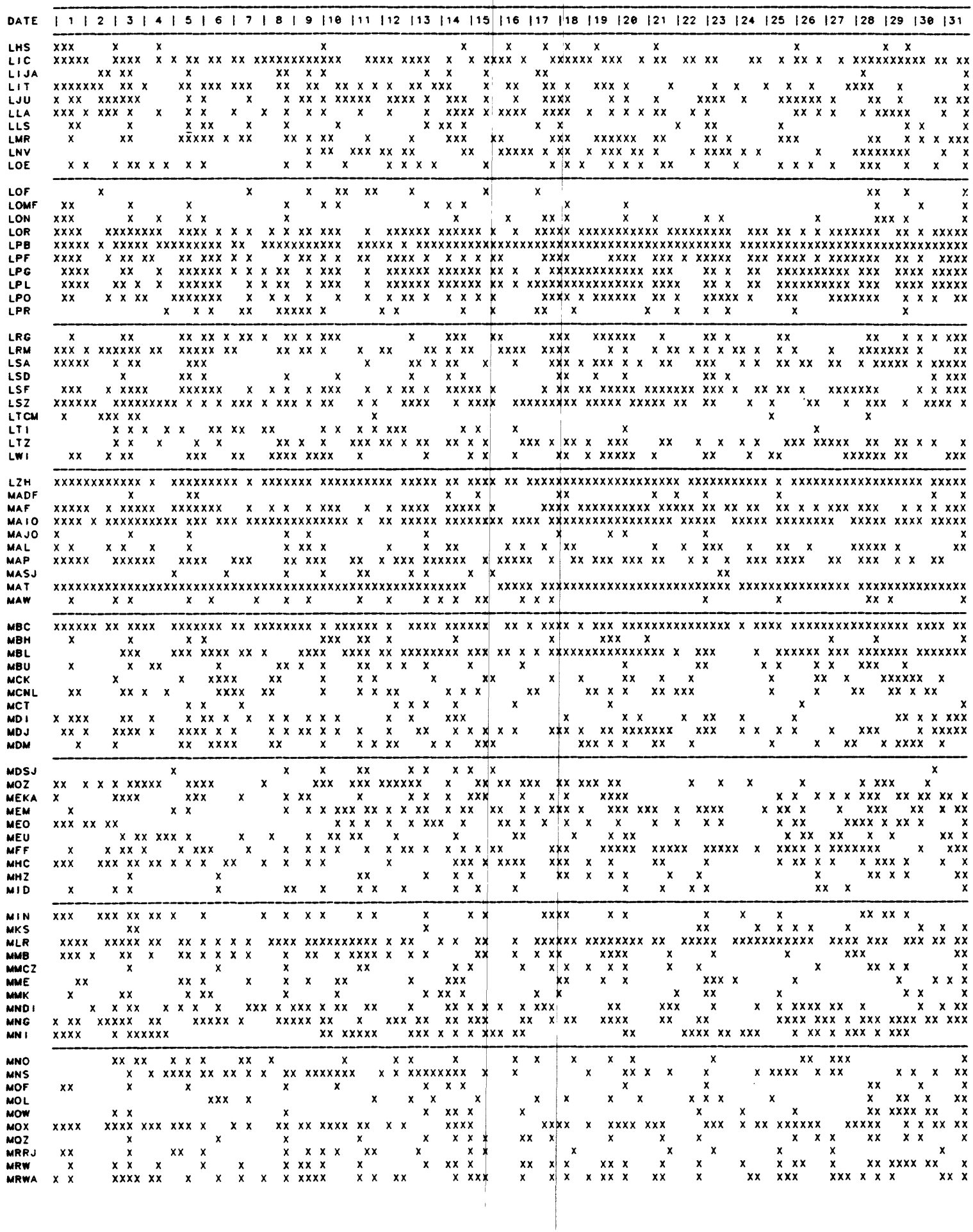
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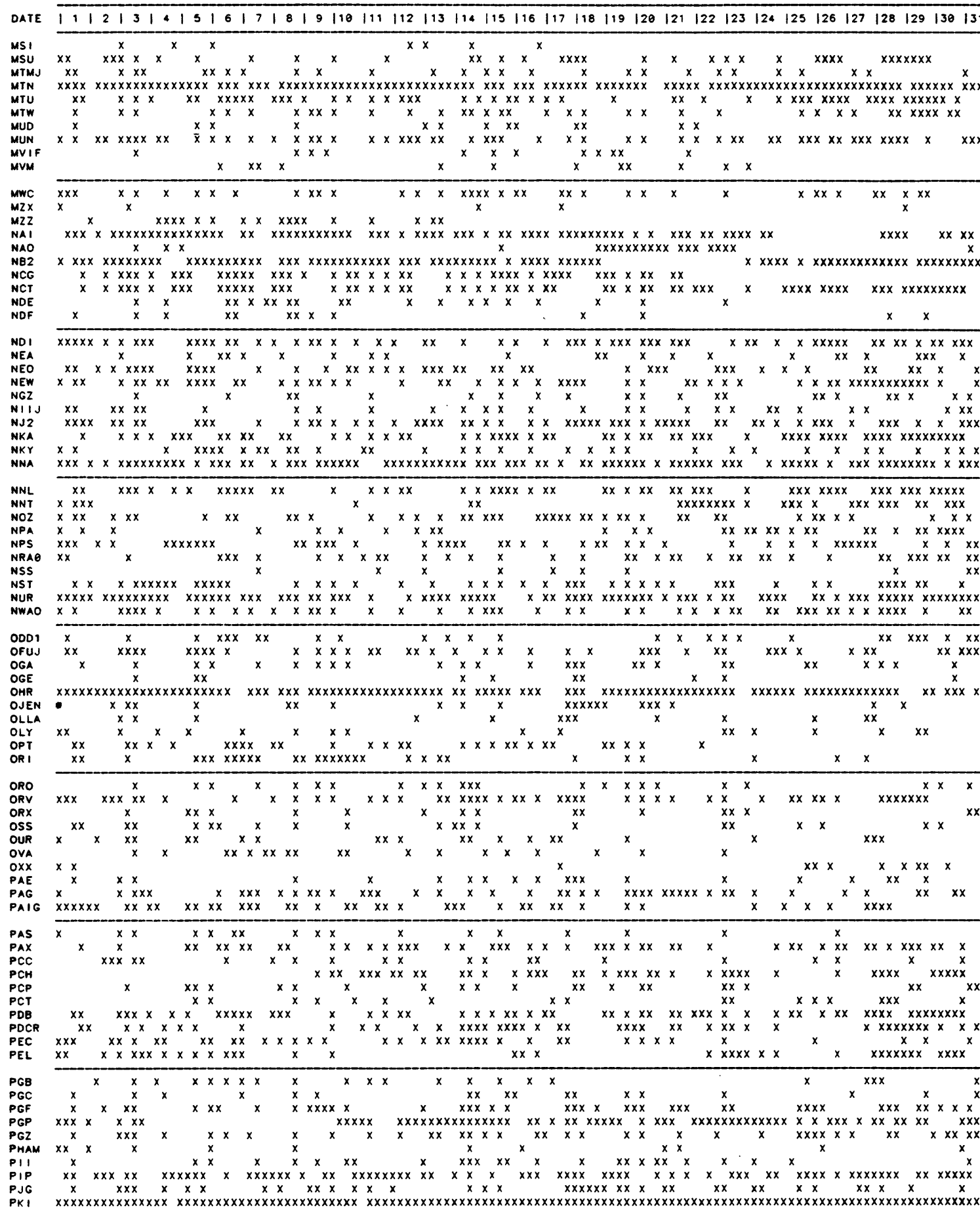
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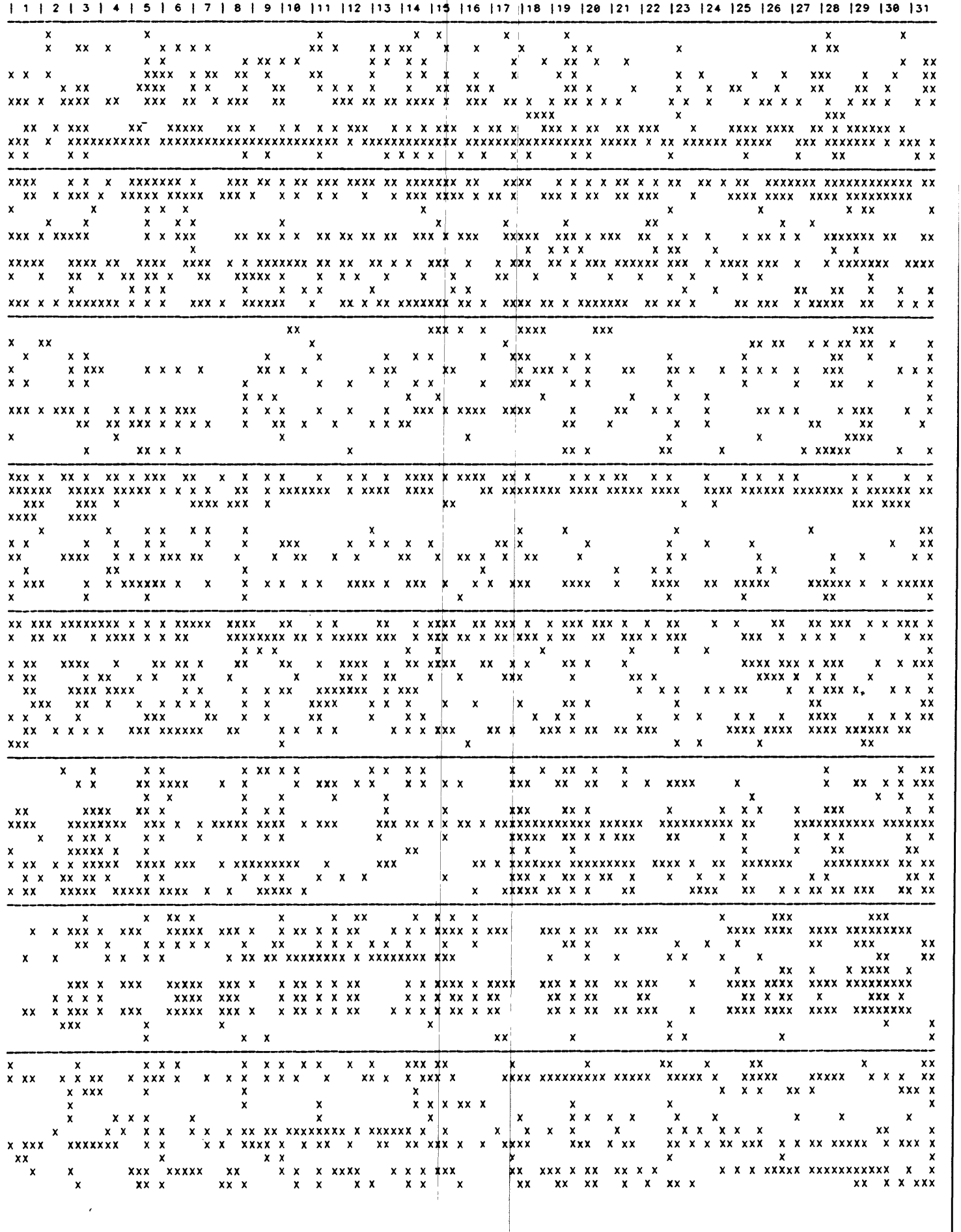
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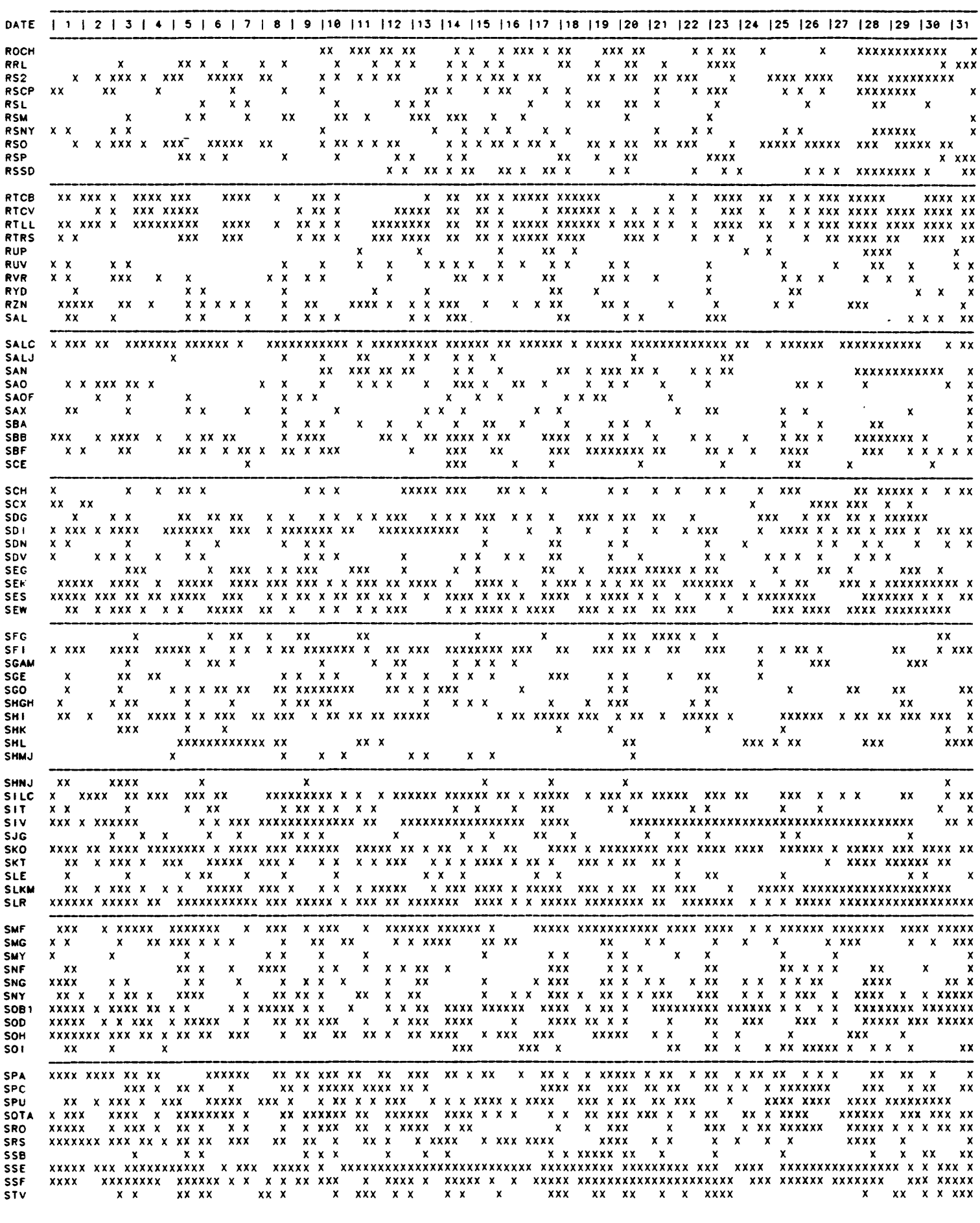
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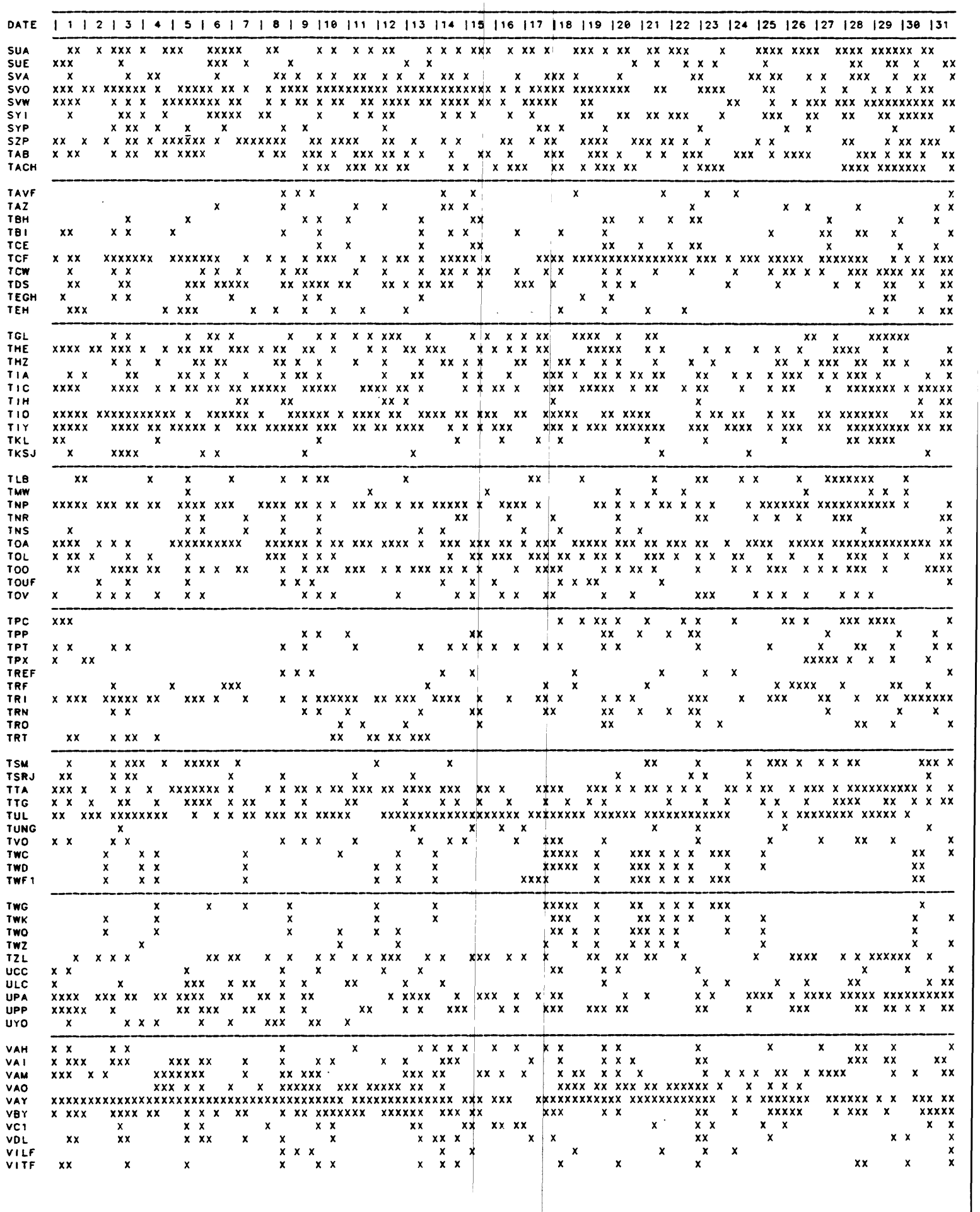
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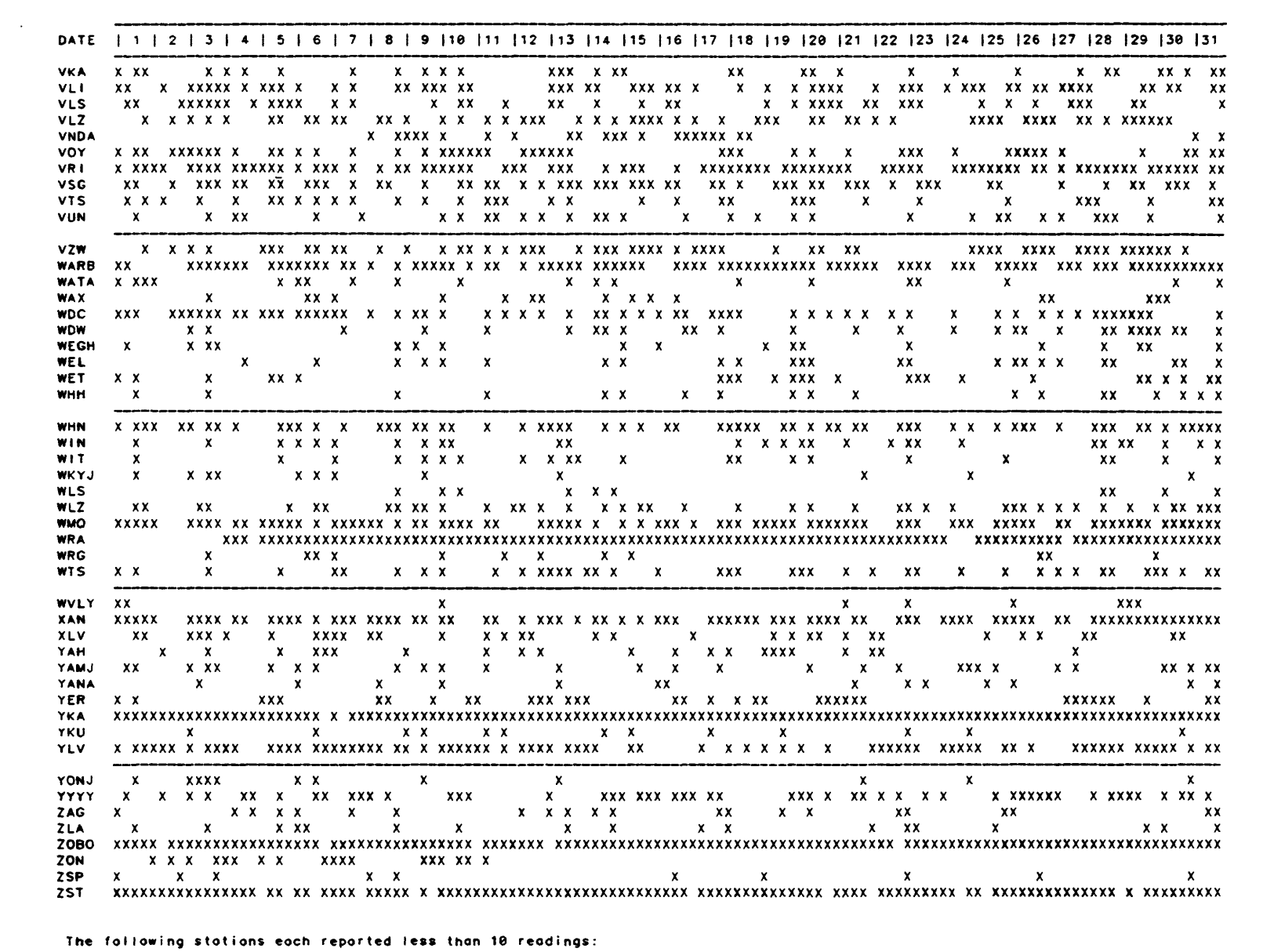

The following stations each reported less than 10 readings:

AAE	ABHA	ACTN	ACX	AFAR	AFIF	AGAL	AGMR	AGO	AGU	AGX	AKRL	AKSR	ALJ	AMAN	AN1	AN12	AN3
AN7	AN8	ANGL	APA	ARO	ASW	ATA	ATZ	BAC	BBJ	BCS	BDF	BEE	BGM	BGMT	BGR	BHW	BIX
BJA	BKB2	BKR	BLE	BLM	BLO	BLP	BLS1	BLS2	BMG	BNH	BOG	BOH	BPA	BPIL	BOB	BRD	BRN
BST	BTG	BUC	BUT	CALA	CAR	CCM	CCW	CEI	CEOS	CFS	CFTV	CGL	CHIE	CIS	CLE	CMCZ	CNIL
COL	COP	COR	COZ	CPE	CTAO	CTFE	CUS	CUSS	CVD	CVT	CWB	DAF	DBCT	DBN	DHJN	DHLJ	DHR
DJE	DLA	DLB	DON	DOT	DPMT	DRA	DRTN	DRV	DRZ	DSH	DSVT	DWY	EAB	EALH	EAU	EBH	EBL
ECHE	ECRI	EDI	EDR	EDU	EJIF	ELF	ELO	ELYF	EMEL	EMM	EMON	EPRU	ERC	EROO	ERUA	ESEL	ESK
ESY	ETER	ETOR	EVV	EZAM	FAI	FAM	FOO	FRO	FRU	GAR	GBR	GGC	GHZJ	GLH	GMTN	GRB3	GRC
GRC1	GRC3	GRI	GSH	GUAC	GUAN	GZR	HAH	HATZ	HBF	HBMT	HITZ	HLBJ	HLD	HOJ	HON	HOR	HPI
HRV	HRY	HUTZ	HYT	IIA	IKP	ILT	IMW	IRK	JMI	JOZ	JRDJ	KBS	KCHT	KEF	KETZ	KHO	KIM
KIP	KLI	KLL	KONO	KOT	KSU	KTD	KUG	KUR	KZM	LCCM	LDN	LFU	LIS	LISJ	LLAV	LPA	LRDO
LSCZ	LTMT	LVNJ	LVVM	MAG	MAO	MBO	MBZ	MCMT	MCO	MCW	MDN	MEMT	MEP	MFTN	MGD	MGG	MGR
MGS	MILT	MIM	MJMA	MKL	MKRJ	MKT	MLS	MML	MNA	MNZ	MOH	MOMI	MRX	MSCZ	MSZ	MTUR	MUB
NA2	NAV	NEV	NEZ	NHIL	NKM	NMMO	NRI	NRMS	NWRM	OBN	OBO	OBZ	OGTN	OPA	OSG	PAF	PAHZ
PCJ	PDA	PET	PICO	PIG	PKEM	PLAT	PLH	PPE	PSO	PTS	PTT	PUL	PZI	QTRJ	QZA	RAC	RAO
RAR	RATZ	RBL	REVF	RGRS	RIV	RLO	ROSA	RPK	RTY	RUWJ	SAP	SBC	SBCZ	SCI	SCM	SCP	SGH
SGS	SHBJ	SHW	SIM	SIO	SJAS	SLB	SLL	SML	SNH	SNZO	SOA	SOF	SOG2	SDNG	SOP	SPJ	SPY
SRAT	SRE	SRG	STH	STK	STR	STS	STU	SUF	SVB	SVS	SVV	SWZ	SXM	TAF	TAS	TATO	TBC
TBR	TBT	TCBC	TDD	THY	TIK	TIM	TMA	TME	TMP	TOD	TPZ	TSI	TTH	TUH	TWB	TWM1	UNM
UOSK	USI	UTMA	UTU	UZD	UZH	VAL	VGB	VLA	VRN	VSS	VVI	VVO	WAHZ	WAJH	WHC	WLF	WRH
WSIL	WSS	YHJ	YSS	ZAK	ZGN	ZNT											

STATIONS ADDED SINCE STATION BOOK (OF 85-714) WAS PRINTED

Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
A11	R	St. Roch-des-Aulnaies	47 14 33.0 N	70 11 52.0 W	61.0	CLTN
		Quebec, Canada	(47.2425)	(70.1978)		
		opened 19770830.				
A16	R	Riviere Ouelle	47 28 14.0 N	70 00 23.0 W	15.0	CLTN
		Quebec, Canada	(47.4706)	(70.0064)		
		opened 19770830.				
A21	R	St. Andre	47 42 13.0 N	69 41 23.0 W	46.0	CLTN
		Quebec, Canada	(47.7036)	(69.6897)		
		opened 19770830.				
A54	R	Misere	47 27 24.0 N	70 24 45.0 W	381.0	CLTN
		Quebec, Canada	(47.4567)	(70.4125)		
		opened 19770830.				
A61	R	Sointe Mathilde	47 41 35.0 N	70 05 24.0 W	358.0	CLTN
		Quebec, Canada	(47.6931)	(70.0900)		
		opened 19810605.				
A64	R	Saint Simeon	47 49 35.0 N	69 53 32.0 W	137.0	CLTN
		Quebec, Canada	(47.8264)	(69.8922)		
		opened 19770830.				
AAHD		Abu Hadid	23 44 46.8 N	32 45 10.2 E	...	HLW
		Egypt	(23.7463)	(32.7528)		
		opened 1982? HLW code AHD.				
AAPN		Arroyo Pinares	37 18 27.6 N	4 07 15.6 W	1160.0	CRT
		Spain	(37.3077)	(4.1210)		
AAT	R	Alma-Ata	...	...	...	
		Kazakh S.S.R., U.S.S.R.				
ABH		Alteburg	49 52 54.0 N	7 32 51.0 E	620.0	KRW
		Rheinland-Pfalz, Fed. Rep. of Germany	(49.8817)	(7.5475)		
ABHA		Abha	18 15 .. N	42 45 .. E	2200.0	RYD
		Saudi Arabia	(18.2500)	(42.7500)		
		opened 198811.				
ABR	R	El Abra	19 48 25.2 N	96 32 02.4 W	520.0	IIM
		Veracruz, Mexico	(19.8070)	(96.5340)		
ACHM		Chimeneas	37 06 18.0 N	3 49 46.8 W	862.0	CRT
		Spain	(37.1050)	(3.8297)		
ACP	R	Acatlan	18 12 28.2 N	98 03 34.8 W	1250.0	UNM
		Puebla, Mexico	(18.2078)	(98.0597)		
ACTN		Antioch Church	36 20 49.2 N	89 18 36.0 W	143.0	SLM
		Tennessee, U.S.A.	(36.3470)	(89.3100)		
AECU	C	Ecuador Network	0 16 13.8 S	78 24 25.2 W	3000.0	OUI
		Ecuador	(0.2705)	(78.4070)		
AFAR		Ash Flat	36 08 00.0 N	91 31 52.2 W	239.0	TEIC
		Arkansas, U.S.A.	(36.1333)	(91.5312)		
AFH	RD	Ashford Hill	51 20 38.0 N	1 13 11.0 W	91.0	BKN
		England, United Kingdom	(51.3439)	(1.2197)		
AFIF		Afif	24 06 03.6 N	43 10 48.0 E	950.0	RYD
		Saudi Arabia	(24.1010)	(43.1800)		
		opened 199003.				
AFL	R	Alpe Falaria	...	...	...	TRI
		Veneto, Italy				
AGAL		Gebel Aliso	23 25 42.6 N	32 49 31.8 E	...	HLW
		Egypt	(23.4285)	(32.8255)		
		opened 1982? HLW code GAL.				
AGD	D	Arta Grotte	11 31 48.0 N	42 49 12.0 E	450.0	ARO GEOS
		Djibouti	(11.5300)	(42.8200)		
		opened 19850509.				
AGG		Agios Georgios	39 01 20.0 N	22 19 49.0 E	540.0	THE
		Greece	(39.0222)	(22.3303)		
AGMR		Gebel Marawa	23 32 15.6 N	32 32 25.8 E	...	HLW
		Egypt	(23.5377)	(32.5405)		
		opened 1982? HLW code GMR.				
AGO		Saint Agoulin	46 03 08.6 N	3 07 51.8 E	523.0	CFF
		Auvergne, France	(46.0524)	(3.1311)		
		opened 1984?				
AGRW		Gebel Rewraw	23 38 42.0 N	32 48 34.8 E	...	HLW
		Egypt	(23.6450)	(32.8097)		
		opened 1982? HLW code GRW.				
AGU		Augustine-Summit	59 21 36.0 N	153 25 50.4 W	1226.0	GIA
		Western Alaska, Alaska, U.S.A.	(59.3600)	(153.4307)		
		opened 19900901. GIA code AUS.				
AGX	D	Aguascalientes	21 52 43.2 N	102 18 03.6 W	...	UNM
		Aguascalientes, Mexico	(21.8787)	(102.3010)		
		opened 1988.				
AKGH		Akosombo	6 14 36.0 N	0 02 25.0 E	377.0	KUK
		Ghana	(6.2433)	(0.0403)		
		opened 1987.				
AKL		Akola	20 07 .. N	77 07 .. E	310.0	NDI
		Maharashtra, India	(20.1167)	(77.1167)		
AKRL		Khor El Raml	23 39 36.0 N	32 42 36.0 E	...	HLW
		Egypt	(23.6600)	(32.7100)		
		opened 1982? HLW code KRL.				
AKSR		Khor Sakr	23 38 13.8 N	33 01 15.0 E	...	HLW
		Egypt	(23.6372)	(33.0208)		
		opened 1982? HLW code KSR.				
AKUR		Kurkur	23 53 38.4 N	32 46 33.6 E	...	HLW
		Egypt	(23.8940)	(32.7760)		
		opened 1982? HLW code KUR.				
ALBI	R	Allahabad	25 29 .. N	81 50 .. E	107.0	NDI
		Uttar Pradesh, India	(25.4833)	(81.8333)		
ALJ		Aljibe	36 40 25.2 N	5 36 14.4 W	1091.0	SFS
		Spain	(36.6737)	(5.6040)		

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Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
ALME	R	Alemayo	9 25 48.0 N	42 02 24.0 E	2133.0	
		Ethiopia	(9.4300)	(42.0400)		
ALN		Alexandroupolis	40 53 50.0 N	26 02 44.0 E	110.0	THE
		Greece	(40.8972)	(26.0456)		
		opened 198906.				
ALOJ		Lojo	37 06 32.4 N	4 06 18.0 W	1340.0	CRT
		Spain	(37.1090)	(4.1050)		
ALPW		Alpine	43 09 02.3 N	110 59 52.1 W	1792.0	USBR
		Wyoming, U.S.A.	(43.1506)	(110.9978)		
		opened 198601.				
AMAN		Monam	23 56 00.0 N	32 56 02.4 E	...	HLW
		Egypt	(23.9333)	(32.9340)		
		opened 1982? HLW code MAN.				
AMRP		Almeirim	39 09 30.0 N	8 34 30.0 W	160.0	INMG
		Portugal	(39.1583)	(8.5750)		
		opened 199002?				
ANAL		New Aliso	23 24 36.0 N	32 40 40.8 E	...	HLW
		Egypt	(23.4100)	(32.6780)		
		opened 1982? HLW code NAL.				
ANCC		Alto Anchicayo	3 30 55.2 N	76 52 00.0 W	540.0	UVC
		Colombia	(3.5153)	(76.8667)		
		opened 1987.				
ANGC	R	Angol	37 47 00.0 S	72 42 30.0 W	...	
		Molleco, Chile	(37.7833)	(72.7083)		
ANGL		.....	0 23 34.4 S	77 32 39.8 W	3360.0	OUI
		Ecuador	(0.3929)	(77.5444)		
		opened 199008.				
ANGV	R	Angosturo	9 42 18.0 N	69 31 18.1 W	680.0	CAR
		Venezuela	(9.7050)	(69.5217)		
		opened 1984.				
ANGW		Angle Mountain	43 49 54.6 N	110 11 24.8 W	2743.0	USBR
		Wyoming, U.S.A.	(43.8318)	(110.1902)		
		opened 199009.				
ANMR		North Mavowo	23 40 37.2 N	32 32 32.4 E	...	HLW
		Egypt	(23.6770)	(32.5423)		
		opened 1982? HLW code NMR.				
AOI		Ancono (Monte Conero)	43 33 00.0 N	13 36 07.2 E	530.0	SSO
		Marche, Italy	(43.5500)	(13.6020)		
APHE		Pico Herrero	36 57 07.2 N	3 41 16.8 W	1360.0	CRT
		Spain	(36.9520)	(3.6880)		
APKP	F	(phase code designation)				
APM		Augspurger Mountain	45 44 10.0 N	121 40 50.0 W	865.0	SEA
		Washington, U.S.A.	(45.7361)	(121.6806)		
		opened 198110. SEA code AUG.				
APW		Alpha Peak	46 39 06.0 N	122 38 51.0 W	457.0	SEA
		Washington, U.S.A.	(46.6517)	(122.6475)		
AQBJ		'Aqaba	29 43 40.8 N	35 03 00.0 E	170.0	JSO
		Jordan	(29.7280)	(35.0500)		
		opened 1989.				
ARL		.....	17 24 43.2 N	93 07 04.8 W	...	UNM
		Chiapas, Mexico	(17.4120)	(93.1180)		
ARNI	R	Argonne North	43 40 15.0 N	112 37 04.8 W	1552.0	USGS
		Idaho, U.S.A.	(43.6708)	(112.6180)		
ARTJ		Al Aritein	32 14 48.0 N	36 49 42.0 E	1058.0	JSO
		Jordan	(32.2467)	(36.8283)		
		opened 1987.				
ARVI	R	'Arava Valley	...	...	...	JER
		Israel				
AS01	R	Alice Springs Array	23 39 53.0 S	133 57 03.0 E	550.0	AUST
		Northern Territory, Australia	(23.6647)	(133.9508)		
		AUST opened 1986.				
AS02	R	Alice Springs Array	23 40 45.0 S	133 56 13.0 E	550.0	AUST
		Northern Territory, Australia	(23.6792)	(133.9369)		
		AUST opened 1986.				
AS03	R	Alice Springs Array	23 40 28.0 S	133 55 11.0 E	550.0	AUST
		Northern Territory, Australia	(23.6744)	(133.9197)		
		AUST opened 1986.				
AS04	R	Alice Springs Array	23 39 35.0 S	133 55 45.0 E	550.0	AUST
		Northern Territory, Australia	(23.6597)	(133.9292)		
		AUST opened 1986.				
AS05	R	Alice Springs Array	23 38 57.0 S	133 56 51.0 E	550.0	AUST
		Northern Territory, Australia	(23.6492)	(133.9475)		
		AUST opened 1986.				
AS06	R	Alice Springs Array	23 38 51.0 S	133 58 17.0 E	550.0	AUST
		Northern Territory, Australia	(23.6475)	(133.9714)		
		AUST opened 1986.				
AS07	R	Alice Springs Array	23 39 56.0 S	133 58 11.0 E	550.0	AUST
		Northern Territory, Australia	(23.6656)	(133.9697)		
		AUST opened 1986.				
AS08	R	Alice Springs Array	23 40 53.0 S	133 57 36.0 E	550.0	AUST
		Northern Territory, Australia	(23.6814)	(133.9600)		
		AUST opened 1986.				
AS09	R	Alice Springs Array	23 41 58.0 S	133 56 29.0 E	550.0	AUST
		Northern Territory, Australia	(23.6994)	(133.9414)		
		AUST opened 1986.				
AS10	R	Alice Springs Array	23 41 49.0 S	133 54 50.0 E	550.0	AUST
		Northern Territory, Australia	(23.6969)	(133.9139)		
		AUST opened 1986.				

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Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
AS11	R	Alice Springs Array	23 40 42.0 S	133 53 52.0 E	550.0	AUST
		Northern Territory, Australia	(23.6783)	(133.8978)		
		AUST opened 1986.				
AS12	R	Alice Springs Array	23 39 59.0 S	133 54 16.0 E	550.0	AUST
		Northern Territory, Australia	(23.6664)	(133.9044)		
		AUST opened 1986.				
AS13	R	Alice Springs Array	23 39 07.0 S	133 53 40.0 E	550.0	AUST
		Northern Territory, Australia	(23.6519)	(133.8944)		
		AUST opened 1986.				
AS14	R	Alice Springs Array	23 39 06.0 S	133 54 37.0 E	550.0	AUST
		Northern Territory, Australia	(23.6517)	(133.9103)		
		AUST opened 1986.				
AS15	R	Alice Springs Array	23 38 08.0 S	133 54 44.0 E	550.0	AUST
		Northern Territory, Australia	(23.6356)	(133.9122)		
		AUST opened 1986.				
AS16	R	Alice Springs Array	23 38 13.0 S	133 55 48.0 E	550.0	AUST
		Northern Territory, Australia	(23.6369)	(133.9300)		
		AUST opened 1986.				
AS17	R	Alice Springs Array	23 39 52.0 S	133 59 30.0 E	550.0	AUST
		Northern Territory, Australia	(23.6644)	(133.9917)		
		AUST opened 1986.				
AS18	R	Alice Springs Array	23 41 24.0 S	133 58 51.0 E	550.0	AUST
		Northern Territory, Australia	(23.6900)	(133.9808)		
		AUST opened 1986.				
AS19	R	Alice Springs Array	23 42 16.0 S	133 57 45.0 E	550.0	AUST
		Northern Territory, Australia	(23.7044)	(133.9625)		
		AUST opened 1986.				
ASAR	R	.....	...	...	...	AUST
		Northern Territory, Australia				
ASKD		Sinn el Kaddab	23 39 34.8 N	32 23 04.8 E	...	HLW
		Egypt	(23.6597)	(32.3847)		
		opened 1982? HLW code SKD.				
ASME	R	Asmera	15 21 00.0 N	38 55 48.0 E	2420.0	
		Ethiopia	(15.3500)	(38.9300)		
ASMO		Sierra Morrones	37 21 28.8 N	3 44 34.8 W	1170.0	CRT
		Spain	(37.3580)	(3.7430)		
ASPF		Aspremont	43 46 05.4 N	7 15 29.9 E	850.0	STR
		Provence-Cote d'Azur, France	(43.7682)	(7.2583)		
ASR		Mount Adams--Stagman Ridge	46 09 02.4 N	121 35 33.6 W	1280.0	SEA
		Washington, U.S.A.	(46.1507)	(121.5927)		
ATEJ		Tejeda	36 54 54.0 N	4 00 50.4 W	1480.0	CRT
		Spain	(36.9150)	(4.0140)		
ATN		Antennamare (Messina)	38 09 38.0 N	15 27 46.0 E	350.0	ERC
		Sicilia, Italy	(38.1606)	(15.4628)		
ATR1	R	Atar 1	30 58 12.0 N	34 37 48.0 E	200.0	JER
		Israel	(30.9700)	(34.6300)		
ATZ		Mount Atzmon	32 49 17.8 N	35 16 11.0 E	510.0	JER
		Israel	(32.8216)	(35.2697)		
		opened 19860528.				
AUP		Augustine Pinnacle	59 21 44.4 N	153 25 13.8 W	1033.0	AGS
		Western Alaska, Alaska, U.S.A.	(59.3623)	(153.4205)		
		opened 19770922.				
AURF		Auriere	43 53 14.4 N	7 19 39.0 E	1040.0	STR
		Provence-Cote d'Azur, France	(43.8873)	(7.3275)		
AUW	C	Augustine West	59 22 12.3 N	153 28 14.9 W	276.0	GIA
		Western Alaska, Alaska, U.S.A.	(59.3701)	(153.4708)		
		opened 198607.				
AVN		Avellanes	41 53 01.2 N	0 45 06.6 E	630.0	MRB
		Spain	(41.8837)	(0.7518)		
		Sent to NEIS by MDD.				
AVOW		Apres Vouz Peak	43 36 39.8 N	110 48 50.3 W	2036.0	USBR
		Wyoming, U.S.A.	(43.6111)	(110.8140)		
		opened 198601.				
AWAL		West Alisa	23 22 45.0 N	32 34 57.0 E	...	HLW
		Egypt	(23.3792)	(32.5825)		
		opened 1982? HLW code WAL.				
AWDO		Awoongo Dam No. 3	24 02 52.1 S	151 18 56.5 E	110.0	ODM
		Queensland, Australia	(24.0478)	(151.3157)		
		opened 19870701. ODM code AWD.				
AWKL		West Kalabsha	23 25 30.6 N	32 26 49.2 E	...	HLW
		Egypt	(23.4252)	(32.4470)		
		opened 1982? HLW code WKL.				
AYK	R	Aydincik	36 09 08.0 N	33 19 37.0 E	50.0	ISK
		Turkey	(36.1522)	(33.3269)		
		opened 198801.				
AYN		Al 'Uyoynah	28 52 12.0 N	36 00 00.0 E	...	RYD
		Saudi Arabia	(28.8700)	(36.0000)		
		opened 1986.				
AZI		Avezzano	41 59 18.4 N	13 26 08.4 E	...	ROM
		Abruzzo, Italy	(41.9884)	(13.4357)		
		opened 1987.				
AZO	R	.....	15 57 57.6 N	97 24 28.8 W	...	UNM
		Oaxaca, Mexico	(15.9660)	(97.4080)		
BADA		Al Bad'	28 31 22.8 N	35 00 07.2 E	...	RYD
		Saudi Arabia	(28.5230)	(35.0020)		
		opened 1986.				
BAE1	RD	Brasilio Array Site E1	15 39 00.0 S	47 56 49.0 W	1200.0	BDF
		Distrito Federal, Brazil	(15.6500)	(47.9469)		
		opened 197101?				

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Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
BAE2	RD	Brasilia Array Site E2 Distrito Federal, Brazil opened 197101?	15 39 00.0 S (15.6500)	47 56 49.0 W (47.9469)	1200.0	BDF
BAE3	RD	Brasilia Array Site E3 Distrito Federal, Brazil opened 197101?	15 39 25.0 S (15.6569)	47 55 35.0 W (47.9264)	1200.0	BDF
BAE4	D	Brasilia Array Site E4 Distrito Federal, Brazil opened 197101?	15 39 51.0 S (15.6642)	47 54 11.0 W (47.9031)	1260.0	BDF
BAE5	RD	Brasilia Array Site E5 Distrito Federal, Brazil opened 197101?	15 40 21.0 S (15.6725)	47 52 51.0 W (47.BB08)	1200.0	BDF
BAEE	RD	Brasilia Array Site EE Distrito Federal, Brazil opened 197101?	15 44 19.0 S (15.7386)	47 37 12.0 W (47.6200)	1200.0	BDF
BALA		Baldy Mountain Alaska Peninsula, Alaska, U.S.A. PAL code BAL.	55 11 35.6 N (55.1932)	162 47 12.5 W (162.7B68)	360.0	PAL
BAS1	RD	Brasilia Array Site S1 Distrito Federal, Brazil opened 197101?	15 39 22.0 S (15.6561)	47 59 59.0 W (47.9997)	1200.0	BDF
BAS2	RD	Brasilia Array Site S2 Distrito Federal, Brazil opened 197101?	15 40 41.0 S (15.67B1)	48 00 25.0 W (48.0069)	1200.0	BDF
BAS3	RD	Brasilia Array Site S3 Distrita Federal, Brazil opened 197101?	15 41 55.0 S (15.69B6)	48 00 53.0 W (48.0147)	1200.0	BDF
BAS4	RD	Brasilia Array Site S4 Distrita Federal, Brazil opened 197101?	15 43 09.0 S (15.7192)	48 01 20.0 W (48.0222)	1200.0	BDF
BAS5	RD	Brasilia Array Site S5 Distrito Federal, Brazil opened 197101?	15 44 31.0 S (15.7419)	48 01 50.0 W (48.0306)	1200.0	BDF
BASE	RD	Brasilia Array Site SE Distrito Federal, Brazil opened 197101?	15 57 26.0 S (15.9572)	48 04 14.0 W (48.0706)	1200.0	BDF
BAUT		Bautismo Venezuela opened 1984.	10 30 23.4 N (10.5065)	66 28 55.2 W (66.4B20)	1976.0	CAR
BAW1	D	Brasilia Array Site W1 Distrito Federal, Brazil opened 197101?	15 37 42.0 S (15.6283)	48 00 46.0 W (48.0128)	1200.0	BDF
BAW2	RD	Brasilia Array Site W2 Distrito Federal, Brazil opened 197101?	15 37 17.0 S (15.6214)	48 01 07.0 W (48.0186)	1200.0	BDF
BAW3	RD	Brasilia Array Site W3 Distrito Federal, Brazil opened 197101?	15 36 46.0 S (15.6128)	48 03 27.0 W (48.0575)	1200.0	BDF
BAW4	RD	Brasilia Array Site W4 Distrito Federal, Brazil opened 197101?	15 36 19.0 S (15.6053)	48 04 46.0 W (48.0794)	1200.0	BDF
BAWE	D	Brasilia Array Site WE Distrita Federal, Brazil opened 197101?	15 35 28.0 S (15.5911)	48 04 50.0 W (48.0806)	1200.0	BDF
BBB		Bella Bella British Columbia, Canada opened 19B61205.	52 11 04.9 N (52.1847)	128 06 47.9 W (128.1133)	14.0	OTTR
BBTK		Belbasi Turkey	39 50 32.0 N (39.8422)	32 45 37.0 E (32.7603)	1200.0	
BBU		Al Budayyi' Bahrain opened 1986.	26 12 54.0 N (26.2150)	50 27 24.0 E (50.4567)	...	BMU
BCI		Bajram Curri Albania	42 21 59.8 N (42.3666)	20 04 03.0 E (20.0675)	...	TIR
BCZ	R	Braida Crags New Zealand	...	...	...	WEL
BDBC		Bennett Dam British Columbia, Canada opened 198510.	56 10 27.0 N (56.1742)	122 16 57.0 W (122.2825)	700.0	
BDMQ		Boondoomo Dam Queensland, Australia opened 19B00729. QDM code BDM.	26 06 44.3 S (26.1123)	151 26 39.8 E (151.4444)	320.0	QDM
BDNM		Bernardo New Mexico, U.S.A. opened 1990. SNM code BDO.	34 29 26.4 N (34.4907)	106 55 03.6 W (106.9177)	...	SNM
BEAW		Beaver Mountain Wyoming, U.S.A. opened 199009.	43 15 03.4 N (43.2509)	110 36 48.2 W (110.6134)	2960.0	USBR
BEB		Belem Para, Brazil opened 1987.	1 27 00.0 S (1.4500)	48 26 42.0 W (4B.4450)	15.0	
BECU	C	Ecuador Network Ecuador	0 28 28.8 S (0.4747)	78 35 46.2 W (78.5962)	3320.0	QUI
BEE		Al Areen Bahrain opened 1986.	26 01 00.0 N (26.0167)	50 31 1B.0 E (50.5217)	...	BMU
BERA		Berat Albania	40 42 09.7 N (40.7027)	19 56 57.8 E (19.9494)	...	TIR
BERF		Bertagne Provence-Cote d'Azur, France	43 18 46.8 N (43.3130)	5 41 26.5 E (5.6907)	1030.0	STR

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BEVG		Clark Hill Reservoir Georgia, U.S.A.	34 05 21.5 N (34.0893)	82 44 00.0 W (82.7333)	158.0	ATL
BFO	R	Black Forest Observotory (Schiltach) Rheinland-Pfalz, Fed. Rep. of Germony opened before 197410.	48 19 52.0 N (48.3311)	8 19 49.0 E (8.3303)	589.0	KRW
BFT		Belfast Transvaal, South Africa opened 1986.	25 41 12.0 S (25.6867)	30 02 36.0 E (30.0433)	1868.0	PRE
BGL		Borrier Glocier Western Alasko, Alosko, U.S.A. opened 1989?	61 15 48.6 N (61.2635)	152 23 25.8 W (152.3905)	1173.0	AGS
BGMT		Borton Gulch Montono, U.S.A. opened 19871021.	45 14 00.0 N (45.2333)	112 02 25.8 W (112.0405)	2172.0	BUT
BGRO	R	Glenroy Queensland, Austrolio opened 19810216. QDM code BGR.	20 32 57.1 S (20.5492)	147 06 18.7 E (147.1052)	160.0	QDM
BHB		 Piemonte, Italy opened 19900517.	44 50 30.0 N (44.8417)	7 15 48.0 E (7.2633)	530.0	GEN
BHC	R	Bohunice Czechoslovakia	48 34 43.0 N (48.5786)	17 31 44.0 E (17.5289)	...	PRU
BHM	D	Borham England, United Kingdom	51 12 46.0 N (51.2128)	1 10 27.0 W (1.1742)	100.0	BKN
BIAC		(Alternote Abbreviation for DIAC)				
BIX		Bixby Oklohomo, U.S.A. opened 19900801. Sent to NEIS byt TUL.	35 58 40.8 N (35.9780)	95 50 46.0 W (95.8461)	195.0	
BJA		Joww Bohroin opened 1986.	25 59 30.0 N (25.9917)	50 36 30.0 E (50.6083)	...	BMU
BJU	R	 Chiopos, Mexico	16 52 36.5 N (16.8768)	93 10 44.8 W (93.1791)	...	IIM
BKE		Bekescsoba Hungory opened 1987.	46 36 45.0 N (46.6125)	17 53 34.8 E (17.8930)	95.0	BUD
BKJ		Big Koniuji Islond Alosko Peninsulo, Alosko, U.S.A.	55 09 24.0 N (55.1567)	159 33 31.9 W (159.5589)	146.0	PAL
BKM		Butte o Klehm Vonuotu	17 40 06.0 S (17.6683)	168 14 36.0 E (168.2433)	270.0	NOU
BKO		Bokasso Cameroon opened 19850213.	4 25 04.8 N (4.4180)	9 08 27.6 E (9.1410)	380.0	YND
BKOA		 Assom, Indio	25 59 .. N (25.9833)	91 16 .. E (91.2667)	50.0	JHI
BLH		Bald Hill Woshington, U.S.A. opened 198407. SEA code BHW.	47 50 12.6 N (47.8368)	122 01 55.8 W (122.0322)	198.0	SEA
BLHA		Black Hill Alosko Peninsulo, Alosko, U.S.A. PAL code BLH.	55 42 09.0 N (55.7025)	162 03 57.0 W (162.0658)	390.0	PAL
BLLO		Bulolo New Guineo, Popuo New Guineo opened 19880610.	7 12 07.2 S (7.2020)	146 37 12.0 E (146.6200)	700.0	PMG
BLPI		Bilospur Modhyo Prodesh, Indio NDI code BLP.	22 05 .. N (22.0833)	82 25 .. E (82.4167)	85.0	NDI
BLS		Blasjo Norway opened 1985.	59 23 24.0 N (59.3900)	6 26 56.4 E (6.4490)	1170.0	BER
BLS1		Blasjo Norway opened 198610.	59 23 27.6 N (59.3910)	6 49 37.2 E (6.8270)	1160.0	BER
BLS2		Blasja Norway opened 198610.	59 17 38.4 N (59.2940)	6 55 37.2 E (6.9270)	1190.0	BER
BLS3		Blasjo Norway opened 198610	59 25 30.0 N (59.4250)	6 30 54.0 E (6.5150)	1130.0	BER
BMD	R	Beni Messaud Morocco	35 46 49.0 N (35.7803)	5 41 59.0 W (5.6997)	...	CNRM
BMNM		Beor Mountoins New Mexico, U.S.A. SNM code BMT.	34 16 30.0 N (34.2750)	107 15 36.6 W (107.2602)	1972.0	SNM
BMU	R	Al Muhorroq Bahroin opened 1986.	26 14 06.0 N (26.2350)	50 39 36.0 E (50.6600)	...	BMU
BMW		Boistfort Mountoin Woshington, U.S.A. opened 198011. USTN opened 1988. SEA code BOW.	46 28 30.0 N (46.4750)	123 13 41.0 W (123.2281)	870.0	SEA USTN
BNAB		Bonillo British Columbio, Conodo opened 19871204.	53 29 36.0 N (53.4933)	130 38 14.0 W (130.6372)	16.0	OTTR
BNI		Bordonecchio Piemonte, Italy	45 03 09.7 N (45.0527)	6 40 30.7 E (6.6752)	1395.0	ROM
BNM		Borren Site New Mexico, U.S.A. SNM code BAR.	34 08 31.2 N (34.1420)	106 37 40.8 W (106.6280)	2120.0	SNM
BOB	D	Bobbio (Coli) Emilio-Romagno, Italy	44 46 01.2 N (44.7670)	9 26 53.5 E (9.4482)	930.0	ROM

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BRCI		Bahraich	27 34 .. N	81 35 .. E	123.0	NDI
		Uttar Pradesh, India	(27.5667)	(81.5833)		
		NDI code BRC.				
BRF		Ar Rifa'	26 04 24.0 N	50 35 00.0 E	...	BMU
		Bahrain	(26.0733)	(50.5833)		
		opened 1986.				
BRNI	R	Bet Oren	...	...	...	JER
		Israel				
BRTN		Brown Mountain	36 21 24.0 N	82 52 04.2 W	630.0	TVA
		Tennessee, U.S.A.	(36.3567)	(82.8678)		
		opened 19860605.				
BRUT		Bromley	40 37 22.8 N	111 52 43.2 W	1337.0	SLC
		Salt Lake County, Utah, U.S.A.	(40.6230)	(111.8787)		
		opened 19900822.				
BRVW		Black Rock Valley	46 29 07.2 N	119 59 29.4 W	925.0	SEA
		Washington, U.S.A.	(46.4853)	(119.9915)		
		opened 198312. SEA code BRV.				
BS01	R	Boso O.B.S. 1	34 39 12.0 N	140 58 42.0 E	-4011.0	JMA
		Honshu, Japan	(34.6533)	(140.9783)		
BS02	R	Boso O.B.S. 2	34 45 06.0 N	140 45 18.0 E	-2090.0	JMA
		Honshu, Japan	(34.7517)	(140.7550)		
BS03	R	Bosa O.B.S. 3	34 48 06.0 N	140 30 36.0 E	-1898.0	JMA
		Honshu, Japan	(34.8017)	(140.5100)		
BS04	R	Bosa O.B.S. 4	34 59 24.0 N	140 20 18.0 E	-658.0	JMA
		Honshu, Japan	(34.9900)	(140.3383)		
BSD		Bornholm Skovbrynet	55 06 36.0 N	14 54 36.0 E	88.0	COP
		Denmark	(55.1100)	(14.9100)		
		opened 199003.				
BSLO	RD	Bruslee	20 52 01.2 S	146 33 50.4 E	185.0	QDM
		Queensland, Australia	(20.8670)	(146.5640)		
		opened 19840302. QDM code BSL.				
BSZ	RD	Bushy Pork	39 47 55.4 S	174 55 52.4 E	250.0	WEL
		North Island, New Zealand	(39.7987)	(174.9312)		
		opened 199003.				
BTA	R	Bajo Talamanca	...	...	...	HDC
		Costa Rica				
BTE	R	Botoke	4 02 52.8 N	9 05 13.2 E	90.0	YND
		Cameroon	(4.0480)	(9.0870)		
		opened 19850301.				
BTH		Betharram	43 07 23.0 N	0 12 25.0 W	300.0	
		Aquitaine, France	(43.1231)	(0.2069)		
		opened 198608.				
BUE	R	Buenavista	19 26 16.8 N	96 33 32.4 W	200.0	IIM
		Veracruz, Mexico	(19.4380)	(96.5590)		
BUGC		Buga	3 53 35.8 N	76 15 24.7 W	1200.0	UVC
		Colombia	(3.8933)	(76.2569)		
BUW	D	Bucklebury West	51 24 34.0 N	1 13 28.0 W	125.0	BKN
		England, United Kingdom	(51.4094)	(1.2244)		
BUWY		Burn	53 44 34.4 N	1 03 59.4 W	5.0	OMB
		England, United Kingdom	(53.7429)	(1.0665)		
BVTM	R		18 53 36.0 N	102 15 54.0 W	...	UNM
		Michoacan, Mexico	(18.8933)	(102.2650)		
		UNM code BVT.				
BVW		Beverly	46 48 37.8 N	119 52 54.1 W	707.0	SEA
		Washington, U.S.A.	(46.8105)	(119.8817)		
		opened 198609.				
BW01	R	Boulder Array	42 47 09.1 N	109 34 49.7 W	2200.0	NEIS
		Wyoming, U.S.A.	(42.7859)	(109.5805)		
BW02	R	Boulder Array	42 47 19.8 N	109 33 49.6 W	2200.0	NEIS
		Wyoming, U.S.A.	(42.7888)	(109.5638)		
BW03	R	Boulder Array	42 47 12.7 N	109 32 46.8 W	2200.0	NEIS
		Wyoming, U.S.A.	(42.7869)	(109.5463)		
BW04	R	Boulder Array	42 46 44.8 N	109 34 18.3 W	2190.0	NEIS
		Wyoming, U.S.A.	(42.7791)	(109.5717)		
BW05	R	Boulder Array	42 46 52.0 N	109 33 50.0 W	2200.0	NEIS
		Wyoming, U.S.A.	(42.7811)	(109.5639)		
BW06		Boulder Array	42 46 40.0 N	109 33 20.0 W	2200.0	NEIS USTN
		Wyoming, U.S.A.	(42.7778)	(109.5556)		
		opened 19860718.				
BW07	R	Boulder Array	42 46 51.0 N	109 32 30.5 W	2200.0	NEIS
		Wyoming, U.S.A.	(42.7808)	(109.5418)		
BW08	R	Boulder Array	42 46 10.4 N	109 34 51.9 W	2200.0	NEIS
		Wyoming, U.S.A.	(42.7696)	(109.5811)		
BW09	R	Boulder Array	42 46 20.2 N	109 33 50.9 W	2200.0	NEIS
		Wyoming, U.S.A.	(42.7723)	(109.5641)		
BW10	R	Boulder Array	42 46 10.8 N	109 33 13.8 W	2200.0	NEIS
		Wyoming, U.S.A.	(42.7697)	(109.5538)		
BW11	R	Boulder Array	42 45 45.8 N	109 34 26.7 W	2200.0	NEIS
		Wyoming, U.S.A.	(42.7627)	(109.5741)		
BW12	R	Boulder Array	42 45 55.5 N	109 33 36.3 W	2200.0	NEIS
		Wyoming, U.S.A.	(42.7654)	(109.5601)		
BW13	R	Boulder Array	42 45 55.5 N	109 32 46.8 W	2200.0	NEIS
		Wyoming, U.S.A.	(42.7654)	(109.5463)		
BWN		Browne	64 10 18.0 N	149 27 55.2 W	365.0	GIA
		Central Alaska, Alaska, U.S.A.	(64.1717)	(149.4653)		
		opened 19890919.				
CABA		Cabollo Blanco	7 51 20.9 N	71 30 07.9 W	1600.0	CAR
		Venezuela	(7.8558)	(71.5022)		
		opened 1984.				

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CAE	D	Caneva	46 00 24.0 N		12 26 12.0 E		870.0	TRI
		Friuli-Venezia Giulia, Italy	(46.0067)		(12.4367)			
		opened 19830423.						
CAMM	R		19 35 16.8 N		96 27 36.0 W		190.0	IIM
		Veracruz, Mexico	(19.5880)		(96.4600)			
		IIM code CAM.						
CAY	RD	Cayenne	4 57 00.0 N		52 19 12.0 W		25.0	GEOS
		French Guiana	(4.9500)		(52.3200)			
		opened 19850722.						
CAYA		Cayambe	0 04 48.0 N		77 59 00.0 W		4000.0	QUI
		Ecuador	(0.0800)		(77.9833)			
		opened 198904.						
CBD		Cypress Bend	36 19 01.2 N		89 39 03.6 W		84.0	SLM
		Missouri, U.S.A.	(36.3170)		(89.6510)			
		opened 19850621. SLM code CBMO.						
CBSW		Chelan Butte South	47 48 16.7 N		120 02 27.6 W		1073.0	SEA
		Washington, U.S.A.	(47.8046)		(120.0410)			
		opened 1987. SEA code CBS.						
CBTI		Cedar Butte	43 23 15.0 N		112 54 41.4 W		1754.0	USGS
		Idaho, U.S.A.	(43.3875)		(112.9115)			
		opened 19860711.						
CBZM	R		18 00 54.0 N		102 24 18.0 W		...	UNM
		Michoacan, Mexico	(18.0150)		(102.4050)			
		UNM code CBZ.						
CC5	R	Presa El Caracol No. 5	17 32 24.0 N		99 16 40.8 W		...	IIM
		Guerrero, Mexico	(17.5400)		(99.2780)			
CCHE		Chesterland	41 33 40.2 N		81 21 43.2 W		365.0	CLE
		Ohio, U.S.A.	(41.5612)		(81.3620)			
CCMO		Creve Couer	38 43 12.0 N		90 28 01.2 W		152.0	SLM
		Missouri, U.S.A.	(38.7200)		(90.4670)			
CCMX		Coleto de Campos	18 03 12.0 N		102 45 00.0 W		...	LJC
		Michoacan, Mexico	(18.0533)		(102.7500)			
		Strong-motion station.						
CDAM	R	Ciudad Altamirano	18 21 .. N		100 39 .. W		300.0	UNM
		Guerrero, Mexico	(18.3500)		(100.6500)			
		UNM code CDA.						
CDFW		Cedar Flats	46 06 58.2 N		122 02 51.0 W		780.0	SEA
		Washington, U.S.A.	(46.1162)		(122.0475)			
		opened 198003. SEA code CDF.						
CDZ	RD	Cobb Dam	41 05 43.8 S		172 42 46.8 E		780.0	WEL
		South Island, New Zealand	(41.0955)		(172.7130)			
		opened 19891201.						
CECL		East Claridon	41 32 49.2 N		81 06 07.2 W		362.0	CLE
		Ohio, U.S.A.	(41.5470)		(81.1020)			
CECU	C	Ecuador Network	0 28 34.2 S		77 52 13.2 W		2220.0	QUI
		Ecuador	(0.4762)		(77.8703)			
CEDI		Cerro Diablo	7 39 14.4 N		71 53 06.0 W		900.0	CAR
		Venezuela	(7.6540)		(71.8850)			
		opened 1984.						
CENE		Cerro Negro	7 45 50.4 N		71 19 22.1 W		400.0	CAR
		Venezuela	(7.7640)		(71.3228)			
		opened 1984.						
CEO	R	Cerro Encantada	16 14 00.0 N		97 01 06.0 W		3000.0	UNM
		Oaxaca, Mexico	(16.2333)		(97.0183)			
CEOS		Cerro El Oso	9 01 50.5 N		68 20 02.8 W		800.0	CAR
		Venezuela	(9.0307)		(68.3341)			
		opened 198612.						
CFC	R	Cairnmuir Flats	45 11 03.0 S		169 17 32.0 E		576.0	WELC
		South Island, New Zealand	(45.1842)		(169.2922)			
CFS		Cross Fire Station	33 16 43.3 N		80 10 09.5 W		26.0	USGS
		South Carolina, U.S.A.	(33.2787)		(80.1693)			
		opened 19880530.						
CFTV		Fuerteventura	28 24 49.8 N		14 05 00.0 W		540.0	MDD
		Canary Islands, Spain	(28.4138)		(14.0833)			
		opened 198512.						
CGG			16 40 30.0 N		98 27 27.0 W		400.0	UNM
		Guerrero, Mexico	(16.6750)		(98.4575)			
CGRR		Girdled Road	41 40 43.4 N		81 08 30.6 W		334.0	CLE
		Ohio, U.S.A.	(41.6787)		(81.1418)			
CGY		Coligny	26 20 54.0 S		26 22 30.0 E		...	PRE
		Transvaal, South Africa	(26.3483)		(26.3750)			
		opened 1986.						
CHIE		El Hierro Las Playas	27 43 37.2 N		17 57 38.5 W		170.0	MDD
		Canary Islands, Spain	(27.7270)		(17.9607)			
		opened 198906.						
CHIM			1 25 13.0 S		78 51 41.0 W		4100.0	QUI
		Ecuador	(1.4203)		(78.8614)			
		opened 199001.						
CHKT	R	Ch'eng-kung	23 05 57.2 N		121 21 55.4 E		33.5	TAP
		China (Taiwan)	(23.0992)		(121.3654)			
CHMZ		Chama	16 50 .. S		27 04 .. E		1278.0	LSZ
		Zambia	(16.8333)		(27.0667)			
		opened 1987.						
CHOC	R		49 46 08.4 N		18 33 39.6 E		...	PRU
		Czechoslovakia	(49.7690)		(18.5610)			
CHOI		Coyote Hollow	43 18 45.0 N		111 12 45.9 W		2103.0	USBR
		Idaho, U.S.A.	(43.3125)		(111.2127)			
		opened 198601.						

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Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
CHOR		Cobboge Hill Oregon, U.S.A. opened 198608. SEA code CHO.	45 35 27.0 N (45.5908)	118 34 45.0 W (118.5792)	1076.0	SEA
CHPM		Chioutla de Tapia Puebla, Mexico UNM code CHP.	18 17 55.0 N (18.2986)	98 36 47.6 W (98.6132)	1830.0	UNM
CIO		Comerino (Monte d'Aria) Marche, Italy	43 11 42.0 N (43.1950)	13 08 38.4 E (13.1440)	956.0	SSO
CIPM		 Puebla, Mexico UNM code CIP.	17 57 43.2 N (17.9620)	97 51 14.4 W (97.8540)	...	UNM
CIQ	R	Chicoutimi Quebec, Canada opened 19890511.	48 16 20.4 N (48.2723)	70 47 27.0 W (70.7908)	273.0	OTTR
CJR1		Cluj Romania opened 19851201.	46 45 58.0 N (46.7661)	23 33 05.0 E (23.5514)	345.0	BUC
CKL		Chakachamna Lake Western Alaska, Alaska, U.S.A. opened 1989.	61 11 47.4 N (61.1965)	152 20 16.2 W (152.3378)	1265.0	AGS
CLMC		Loga Calima Colombia	3 52 52.9 N (3.8814)	76 33 46.8 W (76.5630)	1480.0	UVC
CLN6		Carlsbad New Mexico, U.S.A. SNM code CL6.	32 31 15.0 N (32.5208)	103 52 45.0 W (103.8792)	1100.0	SNM
CLNB		Carlsbad New Mexico, U.S.A. SNM code CL28.	32 15 51.6 N (32.2643)	103 52 42.6 W (103.8785)	1045.0	SNM
CLTN	F	G.S.C. Charlevoix Local Telemetered Network				
CMB	D	Columbia College Tuolumne County, California, U.S.A. opened 19861106. MNLO code CMBB.	38 02 06.0 N (38.0350)	120 23 06.0 W (120.3850)	719.0	BRK DWSS USTN
CMCZ		Cairnmuir Mts. South Island, New Zealand	45 08 57.0 S (45.1492)	169 16 30.0 E (169.2750)	1039.0	WELC
CMEN		Mentor Ohio, U.S.A.	41 41 02.4 N (41.6840)	81 24 14.4 E (81.4040)	188.0	CLE
CMG2		Lo Cumbre 2 Guatemala opened 1988. GCG code CM2.	14 39 39.0 N (14.6608)	89 47 12.0 W (89.7867)	1710.0	GCG
CMX		(Alternate Abbreviation for COLM)				
CNBA		Chernabura Island Alaska Peninsula, Alaska, U.S.A. PAL code CNB.	54 49 13.2 N (54.8203)	159 35 18.0 W (159.5883)	90.0	PAL
CNIL		Conil Spain Also sent to NEIS by MDD.	36 22 10.2 N (36.3695)	6 03 06.6 W (6.0518)	80.0	SFS
CNS		Constantine Algeria opened 19870907.	36 22 12.0 N (36.3700)	6 36 45.0 E (6.6125)	670.0	ALG
COAS		Coatepeque El Salvador SSS code COA.	13 53 12.0 N (13.8867)	89 34 19.0 W (89.5719)	1260.0	SSS
COLM		Colima Colima, Mexico opened 1986. UNM code COL.	19 10 51.0 N (19.1808)	103 41 27.5 W (103.6910)	779.3	UNM
COLW		Colter Canyon Wyoming, U.S.A. opened 198601.	43 57 14.2 N (43.9539)	110 41 45.6 W (110.6960)	2079.0	USBR
COM2	R	Comitan 2 Chiapas, Mexico	16 14 30.0 N (16.2417)	92 08 13.8 W (92.1372)	...	UNM
COOL		Coolgardie Western Australia, Australia opened 198808.	30 53 01.8 S (30.8838)	121 08 40.8 E (121.1447)	500.0	AUST
COTA		Cotacachi Ecuador opened 198809.	0 20 06.0 N (0.3350)	78 20 16.2 W (78.3378)	4020.0	QUI
CPO5		(Alternate Abbreviation for CPOT)				
CPS	R	Cap Spartel Morocco	35 47 23.0 N (35.7897)	5 34 32.0 W (5.5756)	...	CNRM
CPY		CP-1 Nevada, U.S.A. opened 19910114.	36 55 43.8 N (36.9288)	116 03 31.8 W (116.0588)	1368.0	USGS
CRNM		Carthage New Mexico, U.S.A. SNM code CAR.	33 57 09.0 N (33.9525)	106 44 04.2 W (106.7345)	1662.0	SNM
CROR		Criterion Ridge Oregon, U.S.A. opened 198708. SEA code VCR.	44 58 58.2 N (44.9828)	120 59 17.4 W (120.9882)	1015.0	SEA
CRZF	D	Crozet Islands Crozet Islands opened 19860201.	46 25 46.7 S (46.4296)	51 51 40.4 E (51.8612)	140.0	STR GEOS
CSO	D	Cassa Friuli-Venezia Giulia, Italy opened 19880101.	46 16 24.0 N (46.2733)	12 19 26.0 E (12.3239)	1070.0	TRI
CSTJ		 Jordan opened 199003.	31 07 12.0 N (31.1200)	36 40 19.2 E (36.6720)	760.0	JSO
CSY		Casey Station Greater Antarctica, Antarctica	66 17 21.8 S (66.2894)	110 31 44.0 E (110.5289)	56.0	AUST

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CSZ	D	Casero Rozzo Friuli-Venezia Giulia, Italy opened 19880101.	46 28 23.0 N (46.4731)	12 37 02.0 E (12.6172)	1825.0	TRI
CTAS	R	Cauto El Salvador SSS code CTA.	13 44 56.0 N (13.7489)	89 51 55.0 W (89.8653)	355.0	SSS
CTFE		Tenerife--Los Mesas Canary Islands, Spain opened 198301.	28 28 46.4 N (28.4796)	16 15 43.7 W (16.2621)	270.0	MDD
CTHA		Thorn Acres Ohio, U.S.A.	41 32 31.8 N (41.5422)	81 06 39.0 W (81.1108)	362.0	CLE
CTOM		Thompson Ohio, U.S.A.	41 41 30.0 N (41.6917)	81 08 50.4 W (81.1473)	387.0	CLE
CUMC		Nevado de Cumbol Colombia opened 1989.	0 57 38.4 N (0.9607)	77 52 20.4 W (77.8723)	3950.0	UVC
CUPM		Cuyooca Pueblo, Mexico UNM code CUP.	19 36 13.0 N (19.6036)	97 37 07.0 W (97.6186)	2450.0	UNM
CUSS		Cusmopa El Salvador SSS code CUS.	13 54 33.0 N (13.9092)	89 56 50.0 W (89.9472)	678.0	SSS
CUT		Chulitna Central Alaska, Alaska, U.S.A. opened 19860718.	62 24 16.8 N (62.4047)	150 16 10.2 W (150.2695)	168.0	GIA
CVLQ	R	Collinsville Queensland, Australia opened 19850430. QDM code CVL.	20 35 24.0 S (20.5900)	147 36 32.4 E (147.6090)	102.0	QDM
CVM	R	Colonio del Valle Distrito Federal, Mexico	19 22 55.7 N (19.3821)	99 10 42.5 W (99.1785)	...	UNM
CVT		Castelvetrano Sicilia, Italy	37 40 40.8 N (37.6780)	12 47 31.2 E (12.7920)	...	ERC
CVVD		Valverde--Aguarijo Canary Islands, Spain opened 198502.	27 49 15.0 N (27.8208)	17 56 10.0 W (17.9361)	450.0	MDD
CWZ		Cowlitz River Washington, U.S.A. opened 198003. SEA code COW.	46 29 27.6 N (46.4910)	122 00 43.6 W (122.0121)	305.0	SEA
CXP		..... Pueblo, Mexico	18 16 31.4 N (18.2754)	97 08 30.3 W (97.1418)	...	UNM
CYK		Cape Yokotogo Central Alaska, Alaska, U.S.A. opened 1989.	60 04 58.8 N (60.0830)	142 29 04.8 W (142.4847)	3.0	AGS
CZM		Crazy Man Mountain Washington, U.S.A. opened 198004. SEA code CMM.	46 26 07.0 N (46.4353)	122 30 21.0 W (122.5058)	620.0	SEA
DAQ		Lac Doran Quebec, Canada opened 19881215.	47 57 52.0 N (47.9644)	71 14 33.0 W (71.2425)	939.0	ECTN
DBCT		Belle View Chopil Dominica opened 198912.	15 16 10.6 N (15.2696)	61 21 12.2 W (61.3534)	527.0	TRN
DBO		Dodson Butte Oregon, U.S.A. opened 199008.	43 07 09.0 N (43.1192)	123 14 34.0 W (123.2428)	984.0	SEA
DBV	R	Dien Bien Phu Vietnam	21 23 24.0 N (21.3900)	103 01 30.0 E (103.0250)	1050.0	PLV
DBY	C	Dobrovo Slovenija, Yugoslavia 19890814-19890817.	45 59 56.4 N (45.9990)	13 31 40.8 E (13.5280)	100.0	LJU
DCP	R	Dickinson College Pennsylvania, U.S.A. opened 19900114.	40 12 14.4 N (40.2040)	77 11 49.2 W (77.1970)	143.0	
DCZ	RD	Deep Cove South Island, New Zealand opened 199006.	45 28 04.2 S (45.4678)	167 09 13.2 E (167.1537)	10.0	WEL
DEG		La Desirade Guadeloupe opened 198803.	16 18 47.5 N (16.3132)	61 03 35.3 W (61.0598)	575.0	FDF
DEK		DeKalb Illinois, U.S.A. opened 198701.	41 55 59.2 N (41.9331)	88 45 54.0 W (88.7650)	259.0	
DGBT		Grond Bay Dominica	15 14 20.4 N (15.2390)	61 19 44.4 W (61.3290)	70.0	TRN
DHJN		Dhoron Janob Saudi Arabia opened 19900613.	17 39 36.0 N (17.6600)	43 29 20.4 E (43.4890)	2400.0	RYD
DHLJ		..... Jordan	30 49 12.0 N (30.8200)	30 24 07.2 E (30.4020)	-80.0	JSO
DHW2		Dyer Hill 2 Washington, U.S.A. opened 198506. SEA code DY2.	47 59 06.9 N (47.9853)	119 46 13.0 W (119.7703)	884.0	SEA
DIAC		La Diana Colombia opened 1987.	3 17 28.8 N (3.2913)	76 11 50.4 W (76.1973)	1520.0	UVC
DIW	RD	D'Urville Islands South Island, New Zealand opened 199006.	...	...	...	WELW

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DJE		Delta Junction East Central Alaska, Alaska, U.S.A. opened 19900607.	64 01 40.8 N (64.0280)	145 40 45.0 W (145.6792)	378.0	GIA
DKH	R	Dar Kharkhour Morocco	35 29 31.0 N (35.4919)	5 21 39.0 W (5.3608)	...	CNRM
DLBQ	RD	Dalbeg Queensland, Australia opened 19840409. QDM code DLB.	20 09 03:6 S (20.1510)	147 15 50.4 E (147.2640)	70.0	QDM
DLF	R	Lyons Farm Eire	...	...	...	DIAS
DLG		Dolgoi Island Alaska Peninsula, Alaska, U.S.A.	55 08 27.6 N (55.1410)	161 50 09.0 W (161.8358)	367.0	PAL
DMMT	C	Dolton Mountain Montana, U.S.A. opened 19871119.	46 51 44.4 N (46.8623)	112 42 52.8 W (112.7147)	2039.0	BUT
DMS		Dublin Merrion Square Eire opened 199011.	53 20 26.0 N (53.3406)	6 14 55.0 W (6.2486)	5.0	DIAS
DMW	C	Delta Microwave Central Alaska, Alaska, U.S.A. opened 1986.	64 03 22.8 N (64.0563)	145 43 52.2 W (145.7312)	346.0	GIA
DNGQ	RD	Doongoro Queensland, Australia opened 19840229. QDM code DNG.	20 33 18.0 S (20.5550)	146 28 30.0 E (146.4750)	280.0	QDM
DOI	D	San Damiano Macra Piemonte, Italy	44 30 12.8 N (44.5036)	7 14 43.4 E (7.2454)	1015.0	ROM
DOT		Dot Lake Central Alaska, Alaska, U.S.A. opened 1986.	63 38 55.2 N (63.6487)	144 03 45.0 W (144.0625)	671.0	GIA
DPI		Dunn Peak Idaho, U.S.A. opened 198710.	47 17 19.2 N (47.2887)	116 53 55.8 W (116.8988)	1709.0	
DPMT		Pointe Michel Dominica	15 15 32.4 N (15.2590)	61 23 06.0 W (61.3850)	50.0	TRN
DPQ		Saint-Jean-des-Piles Quebec, Canada	46 40 49.8 N (46.6805)	72 46 38.4 W (72.7773)	167.0	ECTN
DPW		Davenport Washington, U.S.A. opened 198611. USTN opened 1988.	47 52 14.3 N (47.8706)	118 12 10.2 W (118.2028)	892.0	SEA USTN
DR01		Juana Nunez Dominican Republic	19 18 36.6 N (19.3102)	70 41 48.6 W (70.6968)	...	SDD
DR02	R	Janico Dominican Republic SDD code DR2.	19 21 06.6 N (19.3518)	70 46 31.2 W (70.7753)	...	SDD
DR03		Pinalito Dominican Republic	19 16 21.0 N (19.2725)	70 46 07.8 W (70.7688)	...	SDD
DR04		Monte Llano Dominican Republic	19 27 55.8 N (19.4655)	70 21 28.2 W (70.3578)	...	SDD
DR05		La Lomota Dominican Republic	19 37 59.4 N (19.6332)	70 51 34.8 W (70.8597)	...	SDD
DR06		La Diferencia Dominican Republic	19 13 58.2 N (19.2328)	70 59 29.4 W (70.9915)	...	SDD
DR07	R	Jarabacoa Dominican Republic SDD code DR7.	19 04 59.4 N (19.0832)	70 36 18.6 W (70.6052)	...	SDD
DR08		Loma La Navizo Dominican Republic SDD code NAVI.	18 57 28.8 N (18.9580)	70 01 50.4 W (70.0307)	...	SDD
DR09	R	Piedra Blanca Dominican Republic SDD code DR9.	18 48 40.8 N (18.8113)	70 24 59.6 W (70.4166)	...	SDD
DR1		(Alternate Abbreviation for DR01)				
DR10	R	Alto de la Bandera Dominican Republic	18 48 29.4 N (18.8082)	70 41 16.2 W (70.6878)	...	SDD
DR11	R	La Yayitas Dominican Republic	18 28 13.8 N (18.4705)	70 14 04.2 W (70.2345)	...	SDD
DR12		Loma Yerbo Bueno Dominican Republic	18 47 15.0 N (18.7875)	69 22 52.2 W (69.3812)	...	SDD
DR13	R	Sanchez Dominican Republic	19 14 25.8 N (19.2405)	69 35 19.2 W (69.5887)	...	SDD
DR14	R	Sierra Prieta Dominican Republic	18 38 40.8 N (18.6447)	70 00 28.2 W (70.0078)	...	SDD
DR15	R	Siete Picos Dominican Republic	18 45 01.2 N (18.7503)	70 10 38.4 W (70.1773)	...	SDD
DR3		(Alternate Abbreviation for DR03)				
DR4		(Alternate Abbreviation for DR04)				
DR5		(Alternate Abbreviation for DR05)				
DR6		(Alternate Abbreviation for DR06)				
DR8		(Alternate Abbreviation for DR08)				
DRE	D	Drenchia Friuli-Venezia Giulia, Italy opened 19821220	46 10 24.0 N (46.1733)	13 38 36.0 E (13.6433)	810.0	TRI
DRRA		Deer Island Alaska Peninsula, Alaska, U.S.A. PAL code DRR.	54 55 24.6 N (54.9235)	162 16 59.4 W (162.2832)	380.0	PAL
DRTN		Dyersburg Tennessee, U.S.A opened 19890808.	36 08 13.2 N (36.1370)	89 21 54.0 W (89.3650)	137.0	TEIC
DSC		Scotts Head Dominica	15 12 30.3 N (15.2084)	61 21 54.6 W (61.3652)	50.0	TRN

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DSD2	R	Dead Sea Dam Israel	31 10 48.0 N (31.1800)	35 26 24.0 E (35.4400)	-390.0	JER
DSI		Dead Sea--Mount Hotzotzon Israel opened 19860717.	31 34 12.0 N (31.5700)	35 22 48.0 E (35.3800)	200.0	JER
DSIT	F	DSI--State Water Works Division, Ankara, Turkey				
DSVT		Soufriere Village Dominica	15 13 44.4 N (15.2290)	61 22 12.0 W (61.3700)	5.0	TRN
DSZ	R	Denniston North New Zealand	... 	... 	...	WEL
DTMT		Tete Morne Dominica	15 13 58.8 N (15.2330)	61 21 07.2 W (61.3520)	496.0	TRN
DUT		Dutch Harbor Aleutian Islands, Alaska, U.S.A.	53 53 54.0 N (53.8983)	166 32 12.0 W (166.5367)	60.0	GIA
DVD		David Panama opened 198606.	8 26 09.0 N (8.4358)	82 27 02.0 W (82.4506)	20.0	UPA
DWK		 Meghaloyo, India	25 11 12.0 N (25.1867)	92 01 21.6 E (92.0227)	...	JHI
EALH		Alhama de Murcia Spain opened 198601.	37 51 25.8 N (37.8572)	1 25 13.8 W (1.4205)	260.0	MDD
EAP	F	(phase code designation)				
EAPC	F	(phase code designation)				
EAPD	F	(phase code designation)				
EBAN		Banos de la Encina Spain opened 198611.	38 09 51.6 N (38.1643)	3 47 08.4 W (3.7857)	460.0	MDD
EBG		Ellensburg Washington, U.S.A. SEA code ELL.	46 54 35.0 N (46.9097)	120 34 06.0 W (120.5683)	805.0	SEA
EBI		Elk Butte Idaho, U.S.A. opened 1987.	46 50 15.0 N (46.8375)	116 07 06.0 W (116.1183)	1765.0	
ECHE		Chero Spain opened 198611.	39 35 22.2 N (39.5895)	0 58 12.0 W (0.9700)	643.0	MDD
ECO		Colon Panama opened 19901017.	9 21 49.7 N (9.3638)	79 41 37.3 W (79.6937)	468.0	UPA
ECOG		Cogollos-Vega Spain opened 19900613.	37 16 37.9 N (37.2772)	3 33 58.9 W (3.5664)	1176.0	MDD
ECRI		Cripan Spain opened 198610.	42 36 36.0 N (42.6100)	2 30 40.0 W (2.5111)	807.0	MDD
EDR	D	Drumlochty Scotland, United Kingdom opened 19890112.	56 55 08.2 N (56.9189)	2 32 20.9 W (2.5391)	388.0	BGS
EJC	R	Estacion Juarez Chiapas, Mexico	17 36 16.0 N (17.6044)	93 11 44.0 W (93.1956)	...	UNM
EJIF		Jimena de la Frontera Spain opened 19880520.	36 27 04.8 N (36.4513)	5 28 07.8 W (5.4688)	260.0	MDD
EJIM	C	Jimena de la Frontera Spain 198704-19880519.	36 26 09.0 N (36.4358)	5 27 15.0 W (5.4542)	203.0	MDD
EKB	RD	Eskdalemuir Scotland, United Kingdom	55 20 15.0 N (55.3375)	3 10 38.0 W (3.1772)	356.0	BKN
EKC		Ekona Cameroon opened 19841201.	4 12 36.0 N (4.2100)	9 19 37.2 E (9.3270)	450.0	YND
EKR		Elk River Humboldt County, California, U.S.A. opened 19740620; BRK opened 1986. MNLO code EKRT.	40 41 43.2 N (40.6953)	124 08 22.2 W (124.1395)	49.0	BRK
ELMO		Cerro Morro Venezuela opened 1984.	8 00 46.8 N (8.0130)	71 43 00.8 W (71.7169)	2100.0	CAR
ELPA		Filo Paraiso Venezuela opened 1984.	7 47 30.1 N (7.7917)	71 43 31.1 W (71.7253)	1285.0	CAR
ELYF		Eloudy Aquitaine, France opened 198502?	43 10 12.0 N (43.1700)	0 59 30.0 W (0.9917)	700.0	PAR
EMEL		Melilla Ceuta and Melilla, Spain opened 198802.	35 18 00.0 N (35.3000)	2 57 24.0 W (2.9567)	85.0	MDD
EMN		Eldorado Mountains Nevada, U.S.A. opened 19880811.	35 55 17.9 N (35.9216)	114 45 15.2 W (114.7542)	789.5	USGS
EMON		Mondonedo Spain opened 198807.	43 26 10.0 N (43.4361)	7 19 47.4 W (7.3298)	615.0	MDD
EMUT		Emma Park Carbon County, Utah, U.S.A.	39 48 50.4 N (39.8140)	110 48 55.2 W (110.8153)	2268.0	SLC
ENH	D	Enshi Hubei, China (Mainland) opened 1987.	30 16 18.5 N (30.2718)	109 29 12.5 E (109.4868)	...	BJI
ENR		Entrocque Piemonte, Italy	44 13 35.8 N (44.2266)	7 25 13.1 E (7.4203)	1040.0	GEN

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EPBC	F	(phase code designation)				
EPBD	F	(phase code designation)				
EPCP	F	(phase code designation)				
EPCR	F	(phase code designation)				
EPCS	F	(phase code designation)				
EPCU	F	(phase code designation)				
EPDR	F	(phase code designation)				
EPDU	F	(phase code designation)				
EPGC	F	(phase code designation)				
EPGD	F	(phase code designation)				
EPH		Ephrata	47 21 12.8 N (47.3536)	119 35 46.2 W (119.5962)	628.0	SEA
		Washington, U.S.A. opened 198303.				
EPKP	F	(phase code designation)				
EPKS	F	(phase code designation)				
EPM		Echo Peak	37 13 34.2 N (37.2262)	116 20 04.8 W (116.3347)	2408.0	USGS
		Nevada, U.S.A. opened 19900918.				
EPNC	F	(phase code designation)				
EPND	F	(phase code designation)				
EPP	F	(phase code designation)				
EPPP	F	(phase code designation)				
EPPS	F	(phase code designation)				
EPRU		Pruno	36 57 57.6 N (36.9660)	5 13 52.8 W (5.2313)	560.0	MDD
		Spain opened 198611.				
EPS	F	(phase code designation)				
EPSS	F	(phase code designation)				
ERK		Elk Rock	46 18 20.0 N (46.3056)	122 20 27.0 W (122.3408)	1270.0	SEA
		Washington, U.S.A. opened 198005. SEA code ELK.				
EROQ		Roquetas del Mar	40 49 23.4 N (40.8232)	0 24 31.8 E (0.4088)	284.0	MDD
		Spain opened 198702.				
ERT	C	Erto	46 16 36.0 N (46.2767)	12 22 36.0 E (12.3767)	775.0	TRI
		Friuli-Venezio Giulia, Italy 19821124-19880101.				
ERUA		La Rua	42 23 33.6 N (42.3927)	7 08 33.0 W (7.1425)	431.0	MDD
		Spain opened 198705.				
ERZT		Erzurum	39 54 24.1 N (39.9067)	41 15 11.9 E (41.2533)	1955.0	MTAT
		Turkey				
ESCP	F	(phase code designation)				
ESCS	F	(phase code designation)				
ESD		East Dome	46 11 50.4 N (46.1973)	122 09 00.0 W (122.1500)	1609.0	SEA
		Washington, U.S.A. opened 198006. SEA code EDM.				
ESEL		Selva	39 46 05.4 N (39.7682)	2 53 39.6 E (2.8943)	231.0	MDD
		Boleoric Islands, Spain opened 198807.				
ESKP	F	(phase code designation)				
ESKS	F	(phase code designation)				
ESPP	F	(phase code designation)				
ESSP	F	(phase code designation)				
ESSS	F	(phase code designation)				
ET2		Eltopia	46 32 06.0 N (46.5350)	118 57 01.2 W (118.9503)	330.0	SEA
		Washington, U.S.A. opened 19890405.				
ET3		Eltopia	46 34 37.0 N (46.5769)	118 56 11.0 W (118.9364)	305.0	SEA
		Washington, U.S.A. opened 19900912.				
ETER		Terrados	42 18 05.4 N (42.3015)	2 51 19.8 E (2.8555)	238.0	MDD
		Spain opened 198803.				
ETOR		Torete	40 49 10.0 N (40.8194)	2 03 18.6 W (2.0552)	1018.0	MDD
		Spain opened 198803.				
ETW		Entiat	47 36 16.2 N (47.6045)	120 19 51.6 W (120.3310)	1475.0	SEA
		Washington, U.S.A. opened 198610.				
EVIA		Vianos	38 38 13.2 N (38.6370)	2 30 15.0 W (2.5042)	1110.0	MDD
		Spain opened 198511.				
EVR		Evritonio	38 55 00.0 N (38.9167)	21 48 31.2 E (21.8087)	1050.0	ATH
		Greece opened 198906.				
EVV		El Vigio	18 27 23.4 N (18.4565)	95 20 57.6 W (95.3493)	...	UNM
		Veracruz, Mexico opened 1988.				
EWZ	R	Erewhon	...	...	...	WEL
		New Zealand				
EXP	F	(phase code designation)				
EXPC	F	(phase code designation)				
EXPD	F	(phase code designation)				
EXS	F	(phase code designation)				
EYL		Eskiyoylo	40 33 57.6 N (40.5660)	30 09 27.0 E (30.1575)	1160.0	ISK
		Bangladesh opened 199001.				

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Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
EZAM		Zamans Spain opened 198612.	42 08 56.4 N (42.1490)	8 41 42.0 W (8.6950)	398.0	MDD
FAM		Famagusta Cyprus opened 198702.	34 59 46.0 N (34.9961)	34 00 07.0 E (34.0019)	68.0	CSS
FARM	R	 Veracruz, Mexico IIM code FAR.	19 37 33.6 N (19.6260)	96 23 34.8 W (96.3930)	...	IIM
FAU	R	Farcello Aurine Veneto, Italy	...	...	...	TRI
FDKY		Freedom Kentucky, U.S.A. opened 19870327.	36 47 24.0 N (36.7900)	85 47 39.0 W (85.7942)	306.0	TVA
FG2		Serracapriola Puglia, Italy Sent to NEIS by ROM.	41 48 13.0 N (41.8036)	15 10 17.0 E (15.1714)	200.0	FOG
FG3		Monte Sant'Angelo Puglia, Italy Sent to NEIS by ROM.	41 42 02.5 N (41.7007)	15 57 01.0 E (15.9503)	830.0	FOG
FG4		Condelo Puglia, Italy Sent to NEIS by ROM.	41 08 05.0 N (41.1347)	15 31 14.0 E (15.5206)	450.0	FOG
FG5		Orsoro di Puglia Puglia, Italy Sent to NEIS by ROM.	41 16 56.0 N (41.2822)	15 16 09.0 E (15.2692)	...	FOG
FGO2		Fuego 2 Guatemala opened 19B611? GCG code FG2.	14 26 19.2 N (14.4387)	90 50 09.0 W (90.8358)	1335.0	GCG
FGTO	R	Fig Tree Queensland, Australia opened 19870803. QDM code FGT.	20 58 12.4 S (20.9701)	147 46 35.4 E (147.7765)	220.0	QDM
FIA0	R	FINESA Array Site A0 Finland	...	...	...	HEL
FIA1	R	FINESA Array Site A1 Finland opened 199006.	...	...	...	HEL
FIA2	R	FINESA Array Site A2 Finland	...	...	...	HEL
FIA3	R	FINESA Array Site A3 Finland	...	...	...	HEL
FIB0	R	FINESA Array Site B0 Finland	...	...	...	HEL
FIB1	R	FINESA Array Site B1 Finland	...	...	...	HEL
FIB2	R	FINESA Array Site B2 Finland	...	...	...	HEL
FIB3	R	FINESA Array Site B3 Finland	...	...	...	HEL
FIC0	R	FINESA Array Site C0 Finland	...	...	...	HEL
FIC1	R	FINESA Array Site C1 Finland	...	...	...	HEL
FIC2	R	FINESA Array Site C2 Finland	...	...	...	HEL
FIC3	R	FINESA Array Site C3 Finland	...	...	...	HEL
FID0	R	FINESA Array Site D0 Finland	...	...	...	HEL
FID1	R	FINESA Array Site D1 Finland	...	...	...	HEL
FID2	R	FINESA Array Site D2 Finland	...	...	...	HEL
FID3	R	FINESA Array Site D3 Finland	...	...	...	HEL
FIG		Monte Figo Portugal opened 19B40330.	37 06 02.0 N (37.1006)	7 49 42.0 W (7.8283)	310.0	INMG
FIN		Finale Ligure Liguria, Italy	44 12 33.0 N (44.2092)	8 12 30.0 E (8.2083)	590.0	GEN
FIPE		Filo de Piedra Venezuela opened 1984.	7 58 10.9 N (7.9697)	71 15 04.0 W (71.2511)	600.0	CAR
FISA		Filo de Socurogua Venezuela opened 198612.	11 15 53.3 N (11.2648)	69 20 00.0 W (69.3333)	600.0	CAR
FKBC	R	Forrest Kerr British Columbia, Canada opened 19B91010.	56 47 05.0 N (56.7847)	130 37 05.0 W (130.6181)	1175.0	OTTR
FKO		Franklin Oklahoma, U.S.A. opened 1987.	35 15 40.7 N (35.2613)	97 23 10.0 W (97.3861)	351.0	TUL
FL2		Flat Top 2 Washington, U.S.A.	46 11 47.0 N (46.1964)	122 21 01.0 W (122.3503)	1378.0	SEA
FLKY		Flemingsburg Kentucky, U.S.A. opened 19890215.	38 25 33.6 N (38.4260)	83 45 03.6 W (83.7510)	280.0	BHKY
FMKY		Fulgham (Clinton) Kentucky, U.S.A. opened 19861030.	36 39 50.4 N (36.6646)	88 54 32.4 W (88.9090)	152.0	BHKY

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FNA		Florina Greece opened 198912.	40 47 01.8 N (40.7838)	21 22 34.2 E (21.3762)	750.0	THE
FONT		Fontmortina Spain Sent to NEIS by MDD.	41 45 42.0 N (41.7617)	2 26 00.0 E (2.4333)	...	
FORR		Forrest Western Australia, Australia opened 1988.	30 51 .. S (30.8500)	128 06 .. E (128.1000)	...	AUST
FOXC	R	Fox Airport Los Angeles County, California, U.S.A. opened 198103. PAS code FOX.	34 43 58.8 N (34.7330)	118 13 50.4 W (118.2307)	716.0	PAS
FRS		Fouresmith Orange Free State, South Africa opened 1985.	29 45 00.0 S (29.7500)	25 19 18.0 E (25.3217)	...	PRE
FSI		Fosdinovo Toscana, Italy	44 07 34.0 N (44.1261)	10 01 31.0 E (10.0253)	...	ROM
FSP		False Pass Alaska Peninsula, Alaska, U.S.A.	54 57 12.0 N (54.9533)	163 27 24.0 W (163.4567)	200.0	PAL
FST	C	Fort Simpson Northwest Territories, Canada 19860109-19870331.	61 50 24.0 N (61.8400)	121 16 30.0 W (121.2750)	175.0	OTTR
FST1	C	Fort Simpson Northwest Territories, Canada 19851006-19860109. Temporary station, replaced by FST.	61 47 09.0 N (61.7858)	121 15 32.0 W (121.2589)	175.0	OTTR
FUG		Fuego 3 Guatemala opened 198703.	14 26 52.2 N (14.4478)	90 50 31.2 W (90.8420)	1505.0	GCG
FVI	D	Forni Avoltri Friuli-Venezia Giulio, Italy	46 35 35.7 N (46.5932)	12 46 51.3 E (12.7809)	...	ROM
GAM	R	Gorm Tojik S.S.R., U.S.S.R.	...	...	...	
GANF		Gonagobie Provence-Cote d'Azur, France	43 59 51.3 N (43.9976)	5 54 31.2 E (5.9087)	650.0	STR
GAZ		Goziantep Turkey opened 198907.	37 10 19.7 N (37.1721)	37 12 40.8 E (37.2113)	100.0	ISK
GBZT		Gebze Turkey	40 47 20.0 N (40.7889)	29 26 42.0 E (29.4450)	184.0	
GCAZ		Grand Canyon Arizona, U.S.A. opened 1987.	36 02 38.4 N (36.0440)	112 07 40.8 W (112.1280)	...	FLAG
GEA0	R	GERESS Array Site A0 Bayern, Fed. Rep. of Germany	48 50 12.5 N (48.8368)	13 42 06.8 E (13.7019)	1027.6	BUG
GEA1	R	GERESS Array Site A1 Bayern, Fed. Rep. of Germany	48 50 10.6 N (48.8363)	13 42 14.1 E (13.7039)	1009.3	BUG
GEA2	R	GERESS Array Site A2 Bayern, Fed. Rep. of Germany	48 50 19.0 N (48.8386)	13 42 06.5 E (13.7018)	1059.0	BUG
GEA3	R	GERESS Array Site A3 Bayern, Fed. Rep. of Germany	48 50 06.0 N (48.8350)	13 42 00.1 E (13.7000)	1017.0	BUG
GEB1	R	GERESS Array Site B1 Bayern, Fed. Rep. of Germany	48 50 20.0 N (48.8389)	13 42 27.1 E (13.7075)	1015.0	BUG
GEB2	R	GERESS Array Site B2 Bayern, Fed. Rep. of Germany	48 50 22.3 N (48.8395)	13 41 55.0 E (13.6986)	1092.9	BUG
GEB3	R	GERESS Array Site B3 Bayern, Fed. Rep. of Germany	48 50 13.0 N (48.8370)	13 41 45.5 E (13.6960)	1058.8	BUG
GEB4	R	GERESS Array Site B4 Bayern, Fed. Rep. of Germany	48 49 57.8 N (48.8327)	13 41 55.9 E (13.6989)	1006.0	BUG
GEB5	R	GERESS Array Site B5 Bayern, Fed. Rep. of Germany	48 50 04.4 N (48.8346)	13 42 21.4 E (13.7059)	976.9	BUG
GEC1	R	GERESS Array Site C1 Bayern, Fed. Rep. of Germany	48 50 28.4 N (48.8412)	13 42 35.7 E (13.7099)	1027.7	BUG
GEC2	R	GERESS Array Site C2 Bayern, Fed. Rep. of Germany	48 50 42.4 N (48.8451)	13 42 05.6 E (13.7016)	1137.1	BUG
GEC3	R	GERESS Array Site C3 Bayern, Fed. Rep. of Germany	48 50 32.5 N (48.8424)	13 41 30.1 E (13.6917)	1075.7	BUG
GEC4	R	GERESS Array Site C4 Bayern, Fed. Rep. of Germany	48 50 06.7 N (48.8352)	13 41 15.0 E (13.6875)	1103.3	BUG
GEC5	R	GERESS Array Site C5 Bayern, Fed. Rep. of Germany	48 49 46.6 N (48.8296)	13 41 44.5 E (13.6957)	1009.4	BUG
GEC6	R	GERESS Array Site C6 Bayern, Fed. Rep. of Germany	48 49 36.4 N (48.8268)	13 42 32.6 E (13.7090)	942.2	BUG
GEC7	R	GERESS Array Site C7 Bayern, Fed. Rep. of Germany	48 50 07.6 N (48.8354)	13 42 52.1 E (13.7145)	986.0	BUG
GECU		Ecuador Network Ecuador	0 19 01.8 S (0.3172)	78 11 22.8 W (78.1897)	4350.0	QUI
GED1	R	GERESS Array Site D1 Bayern, Fed. Rep. of Germany	48 51 06.5 N (48.8518)	13 42 53.2 E (13.7148)	1060.9	BUG
GED2	R	GERESS Array Site D2 Bayern, Fed. Rep. of Germany	48 51 11.6 N (48.8532)	13 41 47.2 E (13.6964)	999.3	BUG
GED3	R	GERESS Array Site D3 Bayern, Fed. Rep. of Germany	48 50 47.4 N (48.8465)	13 40 54.5 E (13.6818)	949.9	BUG
GED4	R	GERESS Array Site D4 Bayern, Fed. Rep. of Germany	48 50 18.9 N (48.8386)	13 40 46.7 E (13.6796)	1039.8	BUG
GED5	R	GERESS Array Site D5 Bayern, Fed. Rep. of Germany	48 49 28.6 N (48.8246)	13 40 50.5 E (13.6807)	1085.6	BUG
GED6	R	GERESS Array Site D6 Bayern, Fed. Rep. of Germany	48 49 09.9 N (48.8194)	13 41 47.9 E (13.6966)	1083.5	BUG

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Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
GED7	R	GERESS Arroy Site D7	48 49 15.3 N	13 42 57.3 E	959.6	BUG
		Boyern, Fed. Rep. of Germany	(48.8209)	(13.7159)		
GED8	R	GERESS Arroy Site D8	48 49 59.4 N	13 43 33.9 E	938.2	BUG
		Boyern, Fed. Rep. of Germany	(48.8332)	(13.7261)		
GED9	R	GERESS Arroy Site D9	48 50 36.3 N	13 43 25.6 E	987.0	BUG
		Boyern, Fed. Rep. of Germany	(48.8434)	(13.7238)		
GELF		Gronde-Etoile	43 23 00.9 N	5 25 39.0 E	550.0	STR
		Provence-Cote d'Azur, France	(43.3836)	(5.4275)		
GGP		Guoguo Pichincha	0 10 28.2 S	78 35 45.6 W	4600.0	QUI
		Ecuador	(0.1745)	(78.5960)		
		opened 198809. QUI code REFU.				
GHZJ			30 34 48.0 N	36 19 30.0 E	1048.0	JSO
		Jordan	(30.5800)	(36.3250)		
		opened 198912.				
GIBL		Gibalbin	36 49 35.4 N	5 57 10.2 W	412.0	SFS
		Spain	(36.8265)	(5.9528)		
GIO		Monte San Gregorio	37 34 00.0 N	15 06 30.0 E	330.0	ERC
		Sicilia, Italy	(37.5667)	(15.1083)		
		opened 198902.				
GKN		Gorkha	28 00 10.8 N	84 38 13.2 E	1478.0	DMN
		Nepal	(28.0030)	(84.6370)		
		opened 198307.				
GL2		New Goldendale	45 57 35.0 N	120 49 22.5 W	1000.0	SEA
		Washington, U.S.A.	(45.9597)	(120.8229)		
GLH		Golan--Tel Qazir	32 42 36.0 N	35 39 36.0 E	330.0	JER
		Israel	(32.7100)	(35.6600)		
		opened 19860626.				
GLK		Glacier Lake	46 33 50.2 N	121 36 30.7 W	1320.0	SEA
		Washington, U.S.A.	(46.5639)	(121.6085)		
GMB		Gamborie d'Aspromonte	38 10 03.0 N	15 51 48.0 E	1350.0	ERC
		Calobrio, Italy	(38.1675)	(15.8633)		
GMG		Grassy Mountain	34 51 45.6 N	84 40 13.2 W	1097.0	TEIC
		Georgia, U.S.A.	(34.8627)	(84.6703)		
		opened 198511.				
GMO		Grizzlie Mountain	44 26 20.8 N	120 57 22.3 W	1689.0	SEA
		Oregon, U.S.A.	(44.4391)	(120.9562)		
		opened 19870827.				
GOGC	R	Isla Gorgono	...	...	...	UVC
		Colombia				
GRAI		Grandview Point	43 48 33.5 N	111 20 08.6 W	2231.0	USBR
		Idaho, U.S.A.	(43.8093)	(111.3357)		
GRI	D	Girifalco	38 49 01.7 N	16 25 12.5 E	480.0	ROM
		Calabria, Italy	(38.8171)	(16.4201)		
GRI*		(Alternate Abbreviation for GR1TX)				
GROR		Grindstone Mountain	45 21 04.5 N	123 39 43.0 W	945.0	SEA
		Oregon, U.S.A.	(45.3512)	(123.6619)		
		opened 198605. SEA code GRO.				
GT2		Goat Mountain	45 09 20.0 N	122 16 15.0 W	823.0	SEA
		Oregon, U.S.A.	(45.1556)	(122.2708)		
		opened 198509. SEA code VG2.				
GUAC		Guacomoya	10 11 31.2 N	67 16 16.0 W	1330.0	CAR
		Venezuela	(10.1920)	(67.2711)		
		opened 198706.				
GUAN		Valle Guanape	9 57 27.0 N	65 38 52.1 W	1107.0	CAR
		Venezuela	(9.9575)	(65.6478)		
		opened 1984.				
GUAY	R	Guoyocanes	18 26 24.0 N	69 26 00.0 W	...	SDD
		Dominican Republic	(18.4400)	(69.4333)		
		opened 19860710.				
GUB	R	Guba	10 40 .. S	26 26 .. E	...	
			(10.6667)	(26.4333)		
GULW		Guler Mountain	45 55 27.0 N	121 35 44.0 W	1189.0	SEA
		Washington, U.S.A.	(45.9242)	(121.5956)		
		opened 19860731. SEA code GUL.				
GUM2		Guadalajara 2	20 40 .. N	103 18 .. W	1543.0	UNM
		Jalisco, Mexico	(20.6667)	(103.3000)		
GUN		Gumbo	27 54 38.2 N	85 52 45.8 E	2900.0	DMN
		Nepal	(27.9106)	(85.8794)		
		opened 198503.				
GUO	R		16 05 55.2 N	97 03 39.6 W	244.0	UNM
		Oaxaca, Mexico	(16.0987)	(97.0610)		
GVMR	R	Giv'ot Hamore	...	...	...	JER
		Israel				
GWY		Greenwater Valley	36 11 06.6 N	116 40 10.8 W	1540.0	USGS
		Inyo County, Califarnia, U.S.A.	(36.1852)	(116.6697)		
		opened 19880401.				
HAH		Hahryggur	64 07 06.6 N	21 16 58.1 W	...	
		Iceland	(64.1185)	(21.2828)		
HAKY		Hadley Quad	37 06 20.5 N	86 35 05.8 W	169.0	TVA
		Kentucky, U.S.A.	(37.1057)	(86.5849)		
		opened 19870626.				
HAT		Hottorf	50 49 46.9 N	9 56 39.1 E	-592.0	
		Hessen, Fed. Rep. of Germany	(50.8297)	(9.9442)		
		opened before 1981.				
HATI		Hayti	36 10 37.2 N	89 40 33.6 W	83.0	SLM
		Missouri, U.S.A.	(36.1770)	(89.6760)		
HAVC	R	Havirov	49 45 46.8 N	18 28 37.2 E	...	PRU
		Czechoslovakia	(49.7630)	(18.4770)		

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HAYW		Haystock Fork Wyoming, U.S.A. opened 199009.	43 38 22.5 N (43.6396)	110 19 57.0 W (110.3325)	2835.0	USBR
HBMT		Mount Humbug Montana, U.S.A. opened 19900808.	45 47 34.8 N (45.7930)	112 36 28.2 W (112.6078)	2481.0	BUT
HBO		Huckleberry Mountain Oregon, U.S.A. opened 19900919.	43 50 39.6 N (43.8443)	122 19 11.9 W (122.3200)	1615.0	SEA
HDW		Hoodsport Woshington, U.S.A.	47 38 54.6 N (47.6485)	123 03 15.2 W (123.0542)	1006.0	SEA
HEA	D	Headley England, United Kingdom	51 21 30.0 N (51.3583)	1 15 50.0 W (1.2639)	114.0	BKN
HHH		Horse Heaven Hills Woshington, U.S.A. opened 198703. SEA code HH2.	46 10 18.0 N (46.1717)	119 23 01.0 W (119.3836)	490.0	SEA
HHWY	R	High Hoyland Englond, United Kingdom	53 35 12.1 N (53.5867)	1 35 50.6 W (1.5974)	205.0	OMB
HIA	D	Hoilar Heilongjiang, China (Mainland) opened 198703.	49 16 00.0 N (49.2667)	119 44 30.0 E (119.7417)	610.0	BJI
HIRJ	R	Hiroshimo 2 Hiroshima, Honshu, Japan	34 25 42.0 N (34.4283)	132 33 54.0 E (132.5650)	412.0	JMA
HITJ		 Jordan opened 1989.	29 44 34.8 N (29.7430)	35 50 27.6 E (35.8410)	1235.0	JSO
HLBJ		Hollabot Jordan 1987-19871024; reopened 1989.	32 04 39.0 N (32.0775)	36 18 09.0 E (36.3025)	827.0	JSO
HLGA	R	Hoflong Assam, India opened 198408.	25 09 36.0 N (25.1600)	93 01 00.0 E (93.0167)	662.0	JHI
HLH		Cerro de Hule Honduras opened 1990?	13 50 15.0 N (13.8375)	87 15 30.0 W (87.2583)	...	
HLZ	R	Helez Isroel	...	...	...	JER
HMCY		Holy Mount Cemetery New York, U.S.A. opened 198512. PAL code HMC.	40 57 53.4 N (40.9648)	73 48 11.4 W (73.8032)	245.0	PAL
HMDT	R	Nahal Hemdat Isroel	...	...	...	JER
HMNA	R	Hamren Assam, Indio opened 198501.	25 55 24.0 N (25.9233)	92 36 30.0 E (92.6083)	...	JHI
HNV	R	Hanoi Vietnom	21 02 53.0 N (21.0481)	105 47 50.0 E (105.7972)	6.0	PLV
HOBC		El Hobo Colombia opened 1987.	4 21 17.4 N (4.3548)	76 08 07.8 W (76.1355)	1180.0	UVC
HOGH		Ho Ghono opened 1987.	6 36 33.0 N (6.6092)	0 26 42.0 E (0.4450)	372.0	KUK
HONU		Honeyville Cache County, Utah, U.S.A. opened 19890613.	41 36 36.0 N (41.6100)	111 55 01.2 W (111.9170)	1515.0	SLC
HOQC		La Horqueta Colombia opened 1987.	3 28 04.8 N (3.4680)	76 38 01.2 W (76.6337)	2220.0	UVC
HQL		Haql Saudi Arabia opened 1986.	29 16 12.0 N (29.2700)	35 03 00.0 E (35.0500)	75.0	RYD
HRSH	R	Kfar Ka'haresh Israel	...	...	...	JER
HSHJ		 Jordon opened 198909.	29 42 06.0 N (29.7017)	35 40 00.0 E (35.6667)	1100.0	JSO
HSO		Harness Mountain Oregon, U.S.A. opened 19900920.	43 31 33.0 N (43.5258)	123 05 24.0 W (123.0900)	1020.0	SEA
HSR		South Ridge Washington, U.S.A. opened 198508.	46 10 22.2 N (46.1728)	122 10 58.2 W (122.1828)	1774.0	SEA
HUG		Huitzitzil Guatemala opened 198712.	14 01 14.4 N (14.0207)	91 19 24.0 W (91.3233)	...	GCG
HUO	R	Hudson Ontario, Conado opened 19861002.	50 04 50.0 N (50.0806)	92 05 53.0 W (92.0981)	367.0	OTTR
HVAR		Hvor Hrvotsko (Crootio), Yugoslavio opened 19861001.	43 10 40.8 N (43.1780)	16 26 52.8 E (16.4480)	250.0	ZAG
IAP	F	(phase code designation)				
IAPC	F	(phase code designation)				
IAPD	F	(phase code designation)				
IECU	C	Ecuador Network Ecuador	0 28 30.0 S (0.4750)	78 18 24.0 W (78.3067)	3720.0	QUI
IGT		Igoumenitsa Greece opened 198906.	39 31 57 0 N (39.5325)	20 19 57.0 E (20.3325)	320.0	THE

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Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
IHA		Instituto Hidrografica de la Armada Valparaiso, Chile opened 198801.	33 01 32.7 S (33.0257)	71 38 27.9 W (71.6411)	88.5	
IHC	R	Ixhuatan Mexico	17 17 26.0 N (17.2906)	93 00 30.0 W (93.0083)	...	IIM
IIA		Aitzamoni Mexico, Mexico Sent to NEIS by UNM.	19 08 58.2 N (19.1495)	98 39 30.0 W (98.6583)	...	IIM
IIJ		Jacotitlan Mexico, Mexico Also sent to NEIS by UNM.	19 44 02.4 N (19.7340)	99 44 02.4 W (99.7340)	3900.0	IIM
IIO	R	 Tlaxcala, Mexico	19 35 31.2 N (19.5920)	98 43 26.4 W (98.7240)	...	IIM
IISM		Ciudad Serdan Puebla, Mexico Also sent to NEIS by UNM. IIM and UNM code IIS.	18 59 16.8 N (18.9880)	97 22 36.6 W (97.3768)	...	IIM
IKL		Isikli Turkey opened 198801.	36 14 19.0 N (36.2386)	33 41 07.0 E (33.6853)	120.0	ISK
ILIM		Iliamna Western Alaska, Alaska, U.S.A. AGS code ILI.	60 04 48.6 N (60.0802)	152 57 34.2 W (152.9595)	823.0	AGS
IMI		Imperia Liguria, Italy	43 54 36.6 N (43.9102)	7 53 21.6 E (7.8893)	860.0	GEN
IMM	R	Islas Marias Nayarit, Mexico	...	...	...	UNM
IMU		Iran Mountain Millard County, Utah, U.S.A. opened 19880929.	38 37 59.2 N (38.6331)	113 09 30.2 W (113.1584)	1832.0	SLC
INE		Iliamna North East Western Alaska, Alaska, U.S.A. opened 19900829.	60 03 39.0 N (60.0608)	153 03 45.0 W (153.0625)	1585.0	GIA
INW		Iliamna Nort West Western Alaska, Alaska, U.S.A. opened 19900829.	60 04 03.6 N (60.0677)	153 07 57.0 W (153.1325)	1219.0	GIA
IPA		Ipanguacu Rio Grande do Norte, Brazil opened 198708.	5 41 45.0 S (5.6958)	36 51 22.0 W (36.8561)	65.0	
IPBC	F	(phase code designation)				
IPBD	F	(phase code designation)				
IPCP	F	(phase code designation)				
IPCR	F	(phase code designation)				
IPCS	F	(phase code designation)				
IPCU	F	(phase code designation)				
IPDR	F	(phase code designation)				
IPDU	F	(phase code designation)				
IPGC	F	(phase code designation)				
IPGD	F	(phase code designation)				
IPKP	F	(phase code designation)				
IPKS	F	(phase code designation)				
IPNC	F	(phase code designation)				
IPND	F	(phase code designation)				
IPP	F	(phase code designation)				
IPPP	F	(phase code designation)				
IPPS	F	(phase code designation)				
IPS	F	(phase code designation)				
IPSS	F	(phase code designation)				
ISCP	F	(phase code designation)				
ISCS	F	(phase code designation)				
ISKP	F	(phase code designation)				
ISKS	F	(phase code designation)				
ISPP	F	(phase code designation)				
ISSP	F	(phase code designation)				
ISSS	F	(phase code designation)				
ITU		Istanbul Turkey opened 19890102.	41 06 22.2 N (41.1062)	29 00 53.4 E (29.0148)	98.0	IST WWSS
IVAG	C	Clark Hill Reservoir Georgia, U.S.A. closed 1986.	34 16 19.6 N (34.2721)	82 44 45.6 W (82.7460)	168.0	ATL
IVF		Ivanof Bay Alaska Peninsula, Alaska, U.S.A.	55 53 45.0 N (55.8958)	159 31 48.0 W (159.5300)	275.0	PAL
IVS		Iliamna South Western Alaska, Alaska, U.S.A. opened 19900829.	60 00 33.0 N (60.0092)	153 04 51.0 W (153.0808)	2332.0	GIA
IXC	R	Ixtacomiton Chiapas, Mexico	17 25 38.0 N (17.4272)	93 06 03.0 W (93.1008)	...	UNM
IXP	F	(phase code designation)				
IXPC	F	(phase code designation)				
IXPD	F	(phase code designation)				
IXS	F	(phase code designation)				
IZI		Iznik Turkey opened 199001.	40 20 12.6 N (40.3368)	29 28 22.2 E (29.4728)	910.0	ISK
JARJ		Jarash Jordan	32 14 15.0 N (32.2375)	35 56 46.8 E (35.9463)	840.0	JSO
JBO		Jordan Butte Oregon, U.S.A. opened 198209.	45 27 41.7 N (45.4616)	119 50 13.2 W (119.8370)	645.0	SEA

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JCM		Jocotitlan Mexico, Mexico opened 1988.	19 44 03.0 N (19.7342)	99 45 40.0 W (99.7611)	...	UNM
JDN	R	Jordin Chiapas, Mexico	17 09 54.0 N (17.1650)	92 30 00.0 W (92.5000)	920.0	IIM
JFO		Juiz de Fora Minas Gerais, Brazil opened 199008?	21 43 37.6 S (21.7271)	43 19 30.0 W (43.3250)	750.0	VAO
JHNI	R	Jhonsi Uttar Pradesh, India	25 27 .. N (25.4500)	78 37 .. E (78.6167)	250.0	NDI
JIL	R	Jilotepec Verocruz, Mexico	19 37 50.4 N (19.6307)	96 56 00.0 W (96.9333)	1330.0	IIM
JIZN		Jizan Soudi Arabia opened 198902.	16 57 32.4 N (16.9590)	42 49 30.0 E (42.8250)	100.0	RYD
JLK		June Lake Washington, U.S.A. opened 198003. SEA code JUN.	46 08 48.0 N (46.1467)	122 09 10.8 W (122.1530)	1049.0	SEA
JMU		Jammu Jammu and Kashmir, India	32 43 .. N (32.7167)	74 54 .. E (74.9000)	...	NDI
JRDJ		 Jordan	30 43 40.8 N (30.7280)	35 39 57.6 E (35.6660)	1365.0	JSO
JRSJ		 Jordan	30 15 39.6 N (30.2610)	35 13 58.8 E (35.2330)	357.0	JSO
JTS		Juntos de Abangores Costa Rica opened 198806.	10 17 27.0 N (10.2908)	84 57 09.0 W (84.9525)	340.0	HDC
JVI		Jordan Valley--Rimmonim Israel opened 19860717.	31 55 48.0 N (31.9300)	35 21 00.0 E (35.3500)	680.0	JER
KAP		Korpathos Greece opened 1988.	35 33 03.0 N (35.5508)	27 10 28.8 E (27.1747)	250.0	ATH
KARJ	R	 Jordan	31 07 12.0 N (31.1200)	35 39 10.8 E (35.6530)	124.0	JSO
KBB		Kelsey Bay British Columbia, Canada opened 19860823.	50 23 05.0 N (50.3847)	126 01 39.0 W (126.0275)	1310.0	OTTR
KBC		Kumba Cameroon opened 19841116; moved slightly 19850317. Old position 4.652N, 9.412E, 375m.	4 39 10.8 N (4.6530)	9 24 46.8 E (9.4130)	375.0	YND
KBR		Kanchanaburi Thailand opened 198807.	14 01 .. N (14.0167)	99 32 .. E (99.5333)	28.0	CHG
KEK		Kerkira Greece opened 198903.	39 42 46.8 N (39.7130)	19 47 55.2 E (19.7987)	280.0	ATH
KERI	R	Keren Israel	30 59 24.0 N (30.9900)	34 29 24.0 E (34.4900)	360.0	JER
KHL		Karaholli Turkey opened 198808.	38 19 23.5 N (38.3232)	29 31 23.5 E (29.5232)	940.0	ISK
KHZ	D	Kahutara South Island, New Zealand opened 198811.	42 25 04.8 S (42.4180)	173 32 25.2 E (173.5403)	50.0	WEL
KIV	D	Kislovodsk Stavropolskiy Kray, R.S.F.S.R., U.S.S.R. IDA opened 1988.	43 57 .. N (43.9500)	42 41 .. E (42.6833)	1200.0	MOS IDA IRIS
KKB		Krupnik Bulgaria opened 1988.	41 52 00.1 N (41.8667)	23 04 59.9 E (23.0833)	434.0	SOF
KLP	R	Kolpo Himachal Pradesh, India	31 32 .. N (31.5333)	78 15 .. E (78.2500)	2724.0	NDI
KMC		Kompino Cameroon opened 19841214.	4 23 09.6 N (4.3860)	9 34 40.8 E (9.5780)	85.0	YND
KMOR		Kings Mountain Oregon, U.S.A. opened 198209. SEA code KMO.	45 38 07.8 N (45.6355)	123 29 22.2 W (123.4895)	975.0	SEA
KMTA		Khamis Mushoyt Saudi Arabia opened 19900613.	18 09 57.6 N (18.1660)	42 51 54.0 E (42.8650)	2000.0	RYD
KNM	R	Kinmen China (Taiwan)	24 15 00.0 N (24.2500)	118 15 36.0 E (118.2600)	13.7	TAP
KOGH		Koforidua Ghana opened 1987.	6 05 10.0 N (6.0861)	0 14 38.0 W (0.2439)	483.0	KUK
KOSW		Kosmos Washington, U.S.A. opened 198105. SEA code KOS.	46 27 40.8 N (46.4613)	122 11 25.8 W (122.1905)	828.0	SEA
KOT		Kottomia Egypt	29 55 48.0 N (29.9300)	31 49 48.0 E (31.8300)	...	HLW
KPL		Plockton Scotland, United Kingdom opened 19860418.	57 20 20.8 N (57.3391)	5 39 09.7 W (5.6527)	36.0	BGS
KSHJ	R	 Jordan	30 16 26.4 N (30.2740)	36 57 57.6 E (36.9660)	1005.0	JSO
KSHT	R	Keshet Israel	...	...	...	JER

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KSL		Kastellorizon	36 07 08.4 N	29 35 00.0 E	100.0	ATH
		Greece	(36.1190)	(29.5833)		
		opened 1988.				
KSZ	R	Kasama	...	...	...	
		Zambia				
KTD		Kolmit	49 19 12.6 N	8 05 01.2 E	670.0	KRW
		Rheinland-Pfalz, Fed. Rep. of Germany	(49.3202)	(8.0837)		
		opened before 197410.				
KTH		Kantishna Hills	63 33 10.8 N	150 55 18.0 W	975.0	GIA
		Central Alaska, Alaska, U.S.A.	(63.5530)	(150.9217)		
		opened 19880815.				
KTK1		Kautokeino	69 00 42.1 N	23 14 13.7 E	340.0	BER
		Norway	(69.0117)	(23.2371)		
		opened 1989.				
KTK2		Kautokeino	69 00 27.0 N	23 14 14.5 E	...	BER
		Norway	(69.0075)	(23.2374)		
		opened 1989.				
KTK3		Kautokeino	69 00 24.0 N	23 14 06.7 E	...	BER
		Norway	(69.0067)	(23.2352)		
		opened 1989.				
KTK4	R	Kautokeino	69 00 29.0 N	23 14 05.1 E	...	BER
		Norway	(69.0081)	(23.2347)		
KTK5	R	Kautokeino	69 00 34.5 N	23 13 38.3 E	...	BER
		Norway	(69.0096)	(23.2273)		
KTK6		Kautokeino	69 00 36.0 N	23 14 09.6 E	340.0	BER
		Norway	(69.0100)	(23.2360)		
KUZ	RD	Kuaotunu	36 44 49.5 S	175 43 11.6 E	40.0	WEL
		North Island, New Zealand	(36.7471)	(175.7199)		
		opened 199004.				
KYR	R	Koyrak	36 21 06.0 N	33 31 31.0 E	1210.0	ISK
		Turkey	(36.3517)	(33.5253)		
		opened 198801.				
KZIT	R	Kziot	30 55 12.0 N	34 26 24.0 E	200.0	JER
		Israel	(30.9200)	(34.4400)		
LACI		Laci	41 38 10.7 N	19 42 33.8 E	40.0	TIR
		Greece	(41.6363)	(19.7094)		
		opened 198704.				
LACU	R	Lo Cuchillo	7 52 36.1 N	71 23 26.2 W	800.0	CAR
		Venezuela	(7.8767)	(71.3906)		
		opened 1984.				
LADA	R	Lo Danto	7 56 20.4 N	71 36 46.8 W	1200.0	CAR
		Venezuela	(7.9390)	(71.6130)		
		opened 1984.				
LAGM	R	.....	16 06 15.0 N	97 04 40.2 W	201.0	UNM
		Oaxaca, Mexico	(16.1042)	(97.0778)		
		UNM code LAG.				
LAGU	R	Laguneta	9 46 12.0 N	69 45 54.0 W	800.0	CAR
		Venezuela	(9.7700)	(69.7650)		
LAL		Leola	34 26 12.0 N	87 20 13.8 W	320.0	TVA
		Alabama, U.S.A.	(34.4367)	(87.3372)		
		opened 19890328.				
LAPE	R	La Pedrera	7 33 28.8 N	71 34 32.2 W	327.0	CAR
		Venezuela	(7.5580)	(71.5756)		
		opened 1984.				
LAZ		Ladron	34 24 07.2 N	107 08 21.6 W	1853.0	SNM
		New Mexico, U.S.A.	(34.4020)	(107.1393)		
LAZM	R	Lazaro Cardenas	18 02 09.6 N	102 12 18.0 W	...	UNM
		Michoacan, Mexico	(18.0360)	(102.2050)		
		UNM code LAZ.				
LBL		Loubilhac	45 13 57.0 N	3 14 49.0 E	...	STR
		Auvergne, France	(45.2325)	(3.2469)		
LCCH		Las Cruces	33 28 31.2 S	71 34 10.8 W	180.0	SAN
		Santiago, Chile	(33.4753)	(71.5697)		
		opened 19871117.				
LDMO		Linda	36 24 39.6 N	89 33 46.8 W	86.0	SLM
		Missouri, U.S.A.	(36.4110)	(89.5630)		
		opened 19800719.				
LDVG		Clark Hill Reservoir	34 08 52.1 N	82 41 00.0 W	162.0	ATL
		Georgia, U.S.A.	(34.1478)	(82.6833)		
LEGH		Legon	5 38 54.0 N	0 10 53.0 W	91.0	KUK
		Ghana	(5.6483)	(0.1814)		
		opened 1987?				
LENM		Lemitar	34 09 55.8 N	106 58 27.0 W	1698.0	SNM
		New Mexico, U.S.A.	(34.1655)	(106.9742)		
		SNM code LEM.				
LFK		Lefkose	35 16 45.1 N	33 31 57.0 E	690.0	ISK
		Cyprus	(35.2792)	(33.5325)		
		opened 19870101.				
LFU		La Fuente	13 44 55.2 N	89 06 49.8 W	732.0	SSS
		El Salvador	(13.7487)	(89.1138)		
LHIS		Lihir Island	3 07 01.2 S	152 37 58.8 E	10.0	PMG
		New Ireland, Popuo New Guineo	(3.1170)	(152.6330)		
		opened 19870622.				
LIBM		.....	17 17 38.4 N	93 00 43.2 W	...	UNM
		Chiapas, Mexico	(17.2940)	(93.0120)		
		UNM code LIB.				
LIJA		Lijor	36 53 54.0 N	5 24 42.0 W	970.0	SFS
		Spain	(36.8983)	(5.4117)		
		opened 198711.				

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LIMM	R	.....	19 40 49.2 N	96 31 41.3 W	200.0	IIM
		Verocruz, Mexico	(19.6803)	(96.5281)		
		IIM code LIM.				
LISJ		El Lison	31 14 24.0 N	35 28 51.6 E	-327.0	JSO
		Jordan	(31.2400)	(35.4810)		
		opened 199003.				
LJI		Lemhi Junction	43 49 26.4 N	112 50 33.6 W	1634.0	USGS
		Idaho, U.S.A.	(43.8240)	(112.8427)		
LJO		Ljotipollur	64 01 24.6 N	19 01 22.8 W	...	
		Iceland	(64.0235)	(19.0230)		
LJS	R	.....	17 59 34.8 N	93 29 16.8 W	...	IIM
		Mexico	(17.9930)	(93.4880)		
LJY		La Joyo	34 20 11.4 N	106 53 45.0 W	1532.0	SNM
		New Mexico, U.S.A.	(34.3365)	(106.8958)		
LKGA		Lookout Mountain	34 37 24.0 N	85 28 19.8 W	655.0	TVA
		Georgio, U.S.A.	(34.6233)	(85.4722)		
		opened 19851205.				
LKO		Korhago	9 32 39.8 N	5 35 20.0 W	435.0	LIC
		Ivory Coost	(9.5444)	(5.5889)		
		opened 198906.				
LLAV		El Lionito	10 28 30.0 N	66 48 28.8 W	907.0	CAR
		Venezuelo	(10.4750)	(66.8080)		
		opened 1988.				
LLJ		.....	16 33 51.0 N	98 53 04.8 W	...	UNM
		Guerrero, Mexico	(16.5642)	(98.8847)		
LLRI	R	Little Lost River	43 43 21.6 N	112 55 57.6 W	1469.0	USGS
		Idaho, U.S.A.	(43.7227)	(112.9327)		
LMX		La Mesa de Andrade	32 06 31.2 N	114 57 37.8 W	...	ECX
		Sonora, Mexico	(32.1087)	(114.9605)		
		opened 1988.				
LMZ	R	Loke Moeroki	...	...	...	WEL
		New Zealand				
LNO	D	Leonard	35 54 45.0 N	95 47 21.1 W	-506.0	TUL
		Oklahoma, U.S.A.	(35.9125)	(95.7892)		
		opened 19881207.				
LNOR		Lincton Mountain	45 52 15.8 N	118 17 06.0 W	768.0	SEA USTN
		Oregon, U.S.A.	(45.8711)	(118.2850)		
		opened 198608. SEA code LNO. USTN opened 1988.				
LOCW		Rockwell Inc. Station	46 43 04.8 N	119 25 54.6 W	201.0	SEA
		Washington, U.S.A.	(46.7180)	(119.4318)		
		opened 198211. SEA code LOC.				
LOF		Lofoten	68 07 51.6 N	13 32 31.2 E	80.0	BER
		Norway	(68.1310)	(13.5420)		
		opened 198701.				
LOHW		Long Hollow	43 36 44.7 N	110 36 13.5 W	2121.0	USBR
		Wyoming, U.S.A.	(43.6124)	(110.6037)		
		opened 198601.				
LOMF		Lomont du Chamesol	47 21 03.0 N	6 49 39.0 E	1000.0	STR
		Franche Comte, France	(47.3508)	(6.8275)		
LOMO	R	Lomo en Medio	18 52 36.0 N	68 51 40.8 W	...	SDD
		Dominican Republic	(18.8767)	(68.8613)		
LDRO		Los Roques	11 57 28.1 N	66 40 27.1 W	20.0	CAR
		Venezuelo	(11.9578)	(66.6742)		
		opened 1984.				
LPD		Lompeduso	35 30 41.0 N	12 35 42.2 E	20.0	ERC
		Itoly	(35.5114)	(12.5951)		
		opened 198905.				
LPI		Lipori	38 29 22.0 N	14 56 00.0 E	594.0	ERC
		Lipari Islands, Itoly	(38.4B94)	(14.9333)		
		opened 19871211.				
LPL		La Plogne	45 30 59.2 N	6 43 56.6 E	2070.0	LDG
		Rhone-Alpes, France	(45.5164)	(6.7324)		
		opened 198608.				
LRCZ	R	Leoning Rack	45 03 55.0 S	169 20 46.0 E	1533.0	WELC
		South Island, New Zealand	(45.0653)	(169.3461)		
LRDO		Lorodo	35 58 09.0 N	90 41 43.2 W	137.0	TEIC
		Arkansas, U.S.A.	(35.9692)	(90.6953)		
		opened 198812.				
LSCZ		Lilico Spur	45 06 59.0 S	169 22 09.0 E	759.0	WELC
		South Island, New Zealand	(45.1164)	(169.3692)		
LSD		Ceresole Reale	45 27 27.6 N	7 09 20.4 E	2284.0	GEN
		Piemonte, Itoly	(45.4577)	(7.1557)		
LSK		Leskovik	40 09 .. N	20 36 .. E	920.0	TIR
		Albonio	(40.1500)	(20.6000)		
LSO	R	Little Silver Creek	...	...	...	TUL
		Oklahoma, U.S.A.				
LSP2		Las Mesas	18 08 45.0 N	66 58 52.0 W	...	MPR
		Puerto Rico	(18.1458)	(66.9811)		
		Moved from LSP.				
LSR	D	Lussari	46 28 33.0 N	13 31 40.0 E	1750.0	TRI
		Friuli-Venezio Giulio, Italy	(46.4758)	(13.5278)		
		opened 19880101.				
LTH		Lepoterique	14 04 15.0 N	87 20 45.0 W	...	
		Honduras	(14.0708)	(87.3458)		
		opened 1990?				
LTI		Latouche	60 02 25.8 N	147 51 15.6 W	302.0	AGS
		Kenai Peninsula, Alasko, U.S.A.	(60.0405)	(147.8542)		
		opened 19880701.				

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LTMT		Little Table Mountain Montana, U.S.A. opened 19890914.	44 31 33.0 N (44.5258)	112 06 36.0 W (112.1100)	2603.0	BUT
LTZ	D	Lake Taylor South Island, New Zealand opened 19891010.	42 46 58.2 S (42.7828)	172 16 07.8 E (172.2688)	640.0	WEL
LUTC	R	..... Czechoslovakia	49 53 02.4 N (49.8840)	18 24 57.6 E (18.4160)	...	PRU
LUV	R	Loi Chau Vietnam	22 03 07.0 N (22.0519)	103 09 34.0 E (103.1594)	1100.0	PLV
LVGX		Lo Villito Guerrero, Mexico Strong-motion station.	18 02 42.0 N (18.0450)	102 10 30.0 W (102.1750)	...	LJC
LVI		Isolo di Levanzo Sicilia, Italy	37 59 08.1 N (37.9856)	12 20 14.7 E (12.3374)	20.0	ERC
LVMM		..... Verocruz, Mexico UNM code LVM.	19 36 05.2 N (19.6014)	96 23 43.8 W (96.3955)	160.0	UNM
LVP		Lakeview Peak Washington, U.S.A. opened 198004.	46 04 06.0 N (46.0683)	122 24 30.0 W (122.4083)	1170.0	SEA
LVVM		Laguna Verde Veracruz, Mexico opened 1988. UNM code LVV.	19 44 16.8 N (19.7380)	96 26 55.8 W (96.4488)	...	UNM
LXQ	R	La Grande 3 Quebec, Canada opened 19861216.	53 43 20.4 N (53.7223)	76 01 20.0 W (76.0222)	195.0	OTTR
MAF		Mozirot Auvergne, France opened 19850711.	46 13 17.3 N (46.2215)	2 33 59.2 E (2.5664)	470.0	LDG
MAHZ	R	Mahia North Island, New Zealand	39 11 18.0 S (39.1883)	177 52 51.0 E (177.8808)	336.0	WELH
MAMI	R	Mei-Ami Israel	...	...	...	JER
MANM	R	..... Veracruz, Mexico IIM code MAN.	19 35 24.0 N (19.5900)	96 25 00.0 W (96.4167)	2.0	IIM
MARA		Maracay Venezuela opened 1984.	10 19 26.0 N (10.3239)	67 36 24.8 W (67.6069)	1200.0	CAR
MARM	R	..... Chiapas, Mexico IIM code MAR.	17 13 04.8 N (17.2180)	92 41 34.8 W (92.6930)	...	IIM
MASH	R	Mash'obbe Sade Israel	31 00 .. N (31.0000)	34 51 .. E (34.8500)	200.0	JER
MAVI		Loma El Jobabon Dominican Republic opened 19860907.	19 14 44.4 N (19.2457)	69 54 42.0 W (69.9117)	...	SDD
MBET		Bethel Montserrat opened 198907.	16 44 29.0 N (16.7414)	62 09 47.2 W (62.1631)	350.0	TRN
MBH		Mount Berech Israel opened 19860618.	29 46 12.0 N (29.7700)	34 52 48.0 E (34.8800)	840.0	JER
MCMT		McKenzie Canyon Montana, U.S.A. opened 19890914.	44 49 39.6 N (44.8277)	112 50 55.8 W (112.8488)	2323.0	BUT
MCPO	RD	Mount Cooper Queensland, Australia opened 19840223. QDM code MCP.	20 33 07.2 S (20.5520)	146 48 21.6 E (146.8060)	300.0	QDM
MCT		Monte Commorato Sicilia, Italy	37 37 52.0 N (37.6311)	13 38 01.0 E (13.6336)	1565.0	ERC
MCWV	D	Mont Chateau West Virginia, U.S.A. opened 199104.	39 39 29.2 N (39.6581)	79 50 44.2 W (79.8456)	280.0	USNN USTN
MDI		Monti di Nese Lombardia, Italy	45 46 38.0 N (45.7772)	9 42 41.0 E (9.7114)	...	ROM
MDL		Mondileni Cape Province, South Africa opened 1988.	30 42 36.0 S (30.7100)	28 48 00.0 E (28.8000)	1320.0	PRE
MDM		Murphy Dome Central Alaska, Alaska, U.S.A. opened 19900216.	64 57 31.8 N (64.9588)	148 13 46.2 W (148.2295)	634.0	GIA
MDSJ		Mudaysisat Jordan	31 37 55.2 N (31.6320)	36 15 07.2 E (36.2520)	970.0	JSO
MECU	C	Ecuador Network (Micotombo) Ecuador	0 32 15.0 S (0.5375)	78 14 39.0 W (78.2442)	4090.0	QUI
MEKA		Meekatharra Western Australia, Australia opened 19860501.	26 36 51.1 S (26.6142)	118 32 01.0 E (118.5336)	390.0	AUST
MEMT		Mount Ellis Montana, U.S.A. opened 19871015.	45 36 14.4 N (45.6040)	110 58 10.8 W (110.9697)	1951.0	BUT
MEP		Monte del Estado Puerto Rico opened 199007.	18 08 45.0 N (18.1458)	66 58 52.0 W (66.9811)	...	MPR
MEU		Monte Lauro Sicilia, Italy	37 06 04.0 N (37.1011)	14 55 48.0 E (14.9300)	985.0	ERC

STATIONS ADDED SINCE STATION BOOK (OF 85-714) WAS PRINTED

Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
MEW		McNeil Island Washington, U.S.A. opened 198503.	47 12 07.0 N (47.2019)	122 38 45.0 W (122.6458)	98.0	SEA
MFTN		Millsfield Tennessee, U.S.A.	36 09 39.6 N (36.1610)	89 23 34.8 W (89.3930)	113.0	SLM
MGR	D	Morigeroti Campanio, Italy	40 08 15.4 N (40.1376)	15 33 17.4 E (15.5548)	260.0	ROM
MGRP	R	Monte Groppo Veneto, Italy	...	...	...	TRI
MHD		Mile High Drive Salt Lake County, Utah, U.S.A. opened 19901004.	40 39 38.4 N (40.6607)	111 48 03.0 W (111.8008)	1597.0	SLC
MHPQ	RD	Mount Hope Queensland, Australia opened 19840410. ODM code MHP.	21 23 45.6 S (21.3960)	146 48 07.2 E (146.8020)	200.0	ODM
MILT		Milan Tennessee, U.S.A. opened 198511.	35 50 56.0 N (35.8489)	88 43 58.4 W (88.7329)	146.0	TEIC
MID	R	Marion Island Prince Edward Islands	46 57 30.0 S (46.9583)	37 54 00.0 E (37.9000)	10.0	PRE
MIV		Mineville/Witherbee New York, U.S.A. opened 198506.	44 04 27.0 N (44.0742)	73 31 48.0 W (73.5300)	...	PAL
MJ2		Rockwell Inc. Station Washington, U.S.A. opened 19890313.	46 33 28.0 N (46.5578)	119 21 50.0 W (119.3639)	150.0	SEA
MJMA		Al Majmo'ah Saudi Arabia opened 199003.	25 51 18.0 N (25.8550)	45 17 20.4 E (45.2890)	650.0	RYD
MMCZ		Mount Michael South Island, New Zealand	45 00 13.0 S (45.0036)	169 07 52.7 E (169.1313)	1163.0	WELC
MME		Monte Cimone Emilio-Romagna, Italy	44 11 37.0 N (44.1936)	10 42 00.0 E (10.7000)	2160.0	ERC
MMI	F	(Mercalli intensity descriptor)				
MML		Mount Molkishuo Israel opened 19860501.	32 26 06.3 N (32.4351)	35 24 47.9 E (35.4133)	510.0	JER
MMR	R	Mount Meron Israel	...	...	...	JER
MNCI	R	Minicoy Laccadive Islands, India	7 18 .. N (7.3000)	73 06 .. E (73.1000)	...	NDI
MNGI	R	Mangalore Karnataka, India	12 52 .. N (12.8667)	74 52 .. E (74.8667)	...	NDI
MNO		Monte Soro Sicilia, Italy	37 55 52.0 N (37.9311)	14 41 42.0 E (14.6950)	1840.0	ERC
MOC		Mount Cameroon Cameroon opened 19851123.	4 17 13.2 N (4.2870)	9 13 01.2 E (9.2170)	2475.0	YND
MOE		Montemor-o-Novo Portugal opened 19830219.	38 31 21.9 N (38.5228)	8 21 02.1 W (8.3506)	263.0	INMG
MOH	D	Mohaka North Island, New Zealand opened 19870319.	39 07 57.0 S (39.1325)	177 08 52.2 E (177.1478)	245.0	WELH
MOKY		Morganfield Kentucky, U.S.A. opened 1989.	37 28 49.2 N (37.4803)	87 54 03.6 W (87.9010)	204.0	BHKY
MOL		Molde Norway opened 198702.	62 34 12.0 N (62.5700)	7 32 52.8 E (7.5480)	98.0	BER
MOLL		Mollejon Venezuela opened 1984.	7 44 06.0 N (7.7350)	71 37 44.4 W (71.6290)	900.0	CAR
MOMI		Momias Spain Also sent to NEIS by MDD.	36 19 18.0 N (36.3217)	5 43 14.4 W (5.7207)	344.0	SFS
MOOW		Moose Ponds Wyoming, U.S.A. opened 198601.	43 44 54.9 N (43.7486)	110 44 41.4 W (110.7448)	2128.0	USBR
MOPM		Molcaxac Puebla, Mexico UNM code MOP.	18 44 .. N (18.7333)	97 55 .. W (97.9167)	1840.0	UNM
MOR1		Mo i Rana Norway opened 1989.	66 14 14.8 N (66.2374)	14 46 19.5 E (14.7721)	650.0	BER
MOR2		Mo i Rana Norway opened 1989.	66 14 11.6 N (66.2366)	14 46 26.6 E (14.7741)	...	BER
MOR3	R	Mo i Rana Norway	66 14 08.7 N (66.2357)	14 46 20.6 E (14.7724)	...	BER
MOR4		Mo i Rana Norway opened 1989.	66 14 12.1 N (66.2367)	14 46 00.6 E (14.7668)	...	BER
MOR5	R	Mo i Rana Norway	66 14 15.8 N (66.2377)	14 45 59.0 E (14.7664)	...	BER
MOR6		Mo i Rana Norway opened 198602.	66 14 13.2 N (66.2370)	14 46 01.2 E (14.7670)	650.0	BER

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Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
MORO		Morrocoy Venezuela opened 1984.	10 52 19.9 N (10.8722)	68 18 57.6 W (68.3160)	920.0	CAR
MOTA		Moosolm Austria opened 19910209.	47 20 41.3 N (47.3448)	11 06 13.4 E (11.1037)	1575.0	VIE
MOZ	D	Mohoenui North Island, New Zealand opened 199005.	38 30 21.0 S (38.5058)	174 48 10.8 E (174.8030)	160.0	WEL
MPOR		Mory's Peak Oregon, U.S.A. opened 199008. SEA code MPO.	44 30 17.4 N (44.5048)	123 33 00.6 W (123.5502)	1249.0	SEA
MQZ	D	McQueen's Valley South Island, New Zealand opened 19891011.	43 42 28.2 S (43.7078)	172 39 07.8 E (172.6522)	60.0	WEL
MR8		Montserrot Spain	41 35 41.4 N (41.5948)	1 50 13.8 E (1.8372)	890.0	MRB
MRH	D	Marewo North Island, New Zealand opened 19870319.	39 29 57.0 S (39.4992)	176 53 18.0 E (176.8883)	4.0	WELH
MRX	D	Morelio Michoacan, Mexico opened 1988.	19 42 16.2 N (19.7045)	101 11 30.0 W (101.1917)	...	UNM
MSCZ		Moutere Station South Island, New Zealand	45 05 35.0 S (45.0931)	169 24 42.0 E (169.4117)	701.0	WELC
MSDA		Masada Israel	31 19 12.0 N (31.3200)	35 17 24.0 E (35.2900)	400.0	JER
MSTB		Masset British Columbia, Canada opened 19871204.	54 00 12.0 N (54.0033)	132 07 05.0 W (132.1181)	91.0	OTTR
MTAT	F	MTA--Mineral Research and Exploration Inst, Ankara				
MTLO	R	Montello Veneto, Italy opened 1987.	...	...	...	TRI
MTMW		Mount Mitchell Washington, U.S.A. opened 198003. SEA code MTM.	46 01 31.8 N (46.0255)	122 12 42.0 W (122.2117)	1121.0	SEA
MTO	R	Montecristo El Salvador	14 23 23.0 N (14.3897)	89 24 18.0 W (89.4050)	1380.0	SSS
MTRD	R	Mount Read Tasmania, Australia	41 50 49.2 S (41.8470)	145 32 13.2 E (145.5370)	...	TAU
MTST	R	Ma-tsu China (Taiwan)	26 05 24.0 N (26.0900)	119 33 36.0 E (119.5600)	113.0	TAP
MTUR		Motou Romania opened 198808.	45 13 34.0 N (45.2261)	25 03 47.0 E (25.0631)	1018.0	BUC
MUDI		Mud Lake Idaho, U.S.A. opened 198601.	43 37 07.9 N (43.6189)	111 04 37.4 W (111.0771)	2124.6	USBR
MUDJ		 Jordan	29 25 19.2 N (29.4220)	35 49 12.0 E (35.8200)	900.0	JSO
MUX		Union Juarez Chiapas, Mexico	15 04 44.4 N (15.0790)	92 04 26.4 W (92.0740)	...	UNM
MVIF		Mont Vial Provence-Cote d'Azur, France	43 53 46.8 N (43.8963)	7 09 09.0 E (7.1525)	1480.0	STR
MVO		Moncarvo Portugal opened 19800801.	41 09 52.0 N (41.1644)	7 01 43.9 W (7.0289)	860.0	INMG
MXC		Moxie City Washington, U.S.A. opened 198410. SEA code MOX.	46 34 38.0 N (46.5772)	120 17 35.0 W (120.2931)	540.0	SEA
MZDA	R	Masada Israel	...	...	...	JER
NAC		Naches Washington, U.S.A.	46 44 03.8 N (46.7344)	120 49 33.2 W (120.8259)	738.0	SEA
NAIN	C	Natchez Trace State Park Tennessee, U.S.A. 19850327-19870306.	35 51 21.6 N (35.8560)	88 14 24.0 W (88.2400)	198.0	TVA
NANS		Nanahuazin El Salvador SSS code NAN.	13 42 54.0 N (13.7150)	89 30 33.0 W (89.5092)	1160.0	SSS
NANU		Nanutarra Western Australia, Australia opened 19871022.	22 33 43.2 S (22.5620)	115 31 44.4 E (115.5290)	80.0	AUST
NAQJ		Naqb Ishtar Jordan	30 00 00.0 N (30.0000)	35 30 18.0 E (35.5050)	164.0	JSO
NCA	C	Nelchina Central Alaska, Alaska, U.S.A. opened 19860717.	61 59 37.2 N (61.9937)	146 49 27.0 W (146.8242)	741.0	GIA
NCG		North Copps Glacier Western Alaska, Alaska, U.S.A. opened 19890807.	61 24 13.2 N (61.4037)	152 09 24.0 W (152.1567)	1244.0	AGS
NCT		North Crescent Western Alaska, Alaska, U.S.A. opened 19880814.	60 33 42.0 N (60.5617)	152 55 46.8 W (152.9297)	1166.0	AGS
NDB		Naden British Columbia, Canada	53 57 18.0 N (53.9550)	132 56 30.0 W (132.9417)	686.0	OTTR
NE01	CD	Goteborg Sweden 198302-198601.	57 48 03.6 N (57.8010)	12 07 55.2 E (12.1320)	55.0	NARS

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Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks	
NE02	D	Monsted Denmark opened 198302.	56 27 32.4 N (56.4590)	9 10 12.0 E (9.1700)	60.0	NARS	
NE03	D	Logumkloster Denmark opened 198302.	55 02 42.0 N (55.0450)	9 09 10.8 E (9.1530)	25.0	NARS	
NE04	D	Witteveen Netherlands opened 198207.	52 48 48.0 N (52.8133)	6 40 06.0 E (6.6683)	17.0	NARS	
NE05	D	Utrecht Netherlands 198203-198406; reopened 198601.	52 05 16.8 N (52.0880)	5 10 19.2 E (5.1720)	2.0	NARS	
NE06	D	Dourbes Belgium opened 198207.	50 05 49.2 N (50.0970)	4 35 42.0 E (4.5950)	225.0	NARS	
NE07	D	Villiers-Adam Ile-de-France, France opened 198311.	49 04 27.8 N (49.0744)	2 13 54.8 E (2.2319)	70.0	NARS	
NE08	CD	Aiguronde Centre, France 198211-198412.	46 25 12.0 N (46.4200)	1 43 48.0 E (1.7300)	360.0	NARS	
NE09	CD	Les Eyzies Aquitoine, France 198211-198602.	44 51 07.2 N (44.8520)	0 58 51.6 E (0.9810)	160.0	NARS	
NE10	D	Arette Aquitoine, France opened 198211.	43 05 09.6 N (43.0860)	0 41 56.4 W (0.6990)	480.0	NARS	
NE11	D	Ainzon Spain opened 1983.	41 48 50.4 N (41.8140)	1 31 01.2 W (1.5170)	440.0	NARS	
NE11•	CD	Lo Almunia Spain 198305-198311.	41 28 37.2 N (41.4770)	1 22 19.2 W (1.3720)	370.0	NARS	
NE12	CD	Valle de los Caidos Spain 198305-198502.	40 38 31.2 N (40.6420)	4 09 18.0 W (4.1550)	1280.0	NARS	
NE13	D	Puertollano Spain opened 198305.	38 41 06.0 N (38.6850)	4 05 27.6 W (4.0910)	700.0	NARS	
NE14	D	Granada Spain opened 198305.	37 11 24.0 N (37.1900)	3 35 42.0 W (3.5950)	774.0	NARS	
NE15	D	Valkenburg Netherlands opened 198406.	50 52 01.2 N (50.8670)	5 47 06.0 E (5.7850)	100.0	NARS	
NE16	D	Clermont Ferrand Auvergne, France opened 198411.	45 45 46.0 N (45.7628)	3 06 09.0 E (3.1025)	80.0	NARS	
NE17	D	Toledo Spain opened 198502.	39 52 53.0 N (39.8814)	4 02 55.0 W (4.0486)	480.0	NARS	
NE18	D	Les Rejoudoux Limousin, France opened 198602.	45 18 16.0 N (45.3044)	1 30 59.0 E (1.5164)	410.0	NARS	
NECR	R	Nordeste de Costa Rica Costa Rica	...	...	...	HDC	
NEO		Neokhori Greece opened 1988.	39 18 24.0 N (39.3067)	23 13 24.6 E (23.2235)	500.0	ATH	
NGI		Nagai Island Alaska Peninsula, Alaska, U.S.A.	55 02 21.6 N (55.0393)	160 04 09.0 W (160.0692)	240.0	PAL	
NGJA		 Assam, India	26 42 24.0 N (26.7067)	91 40 30.0 E (91.6750)	60.0	JHI	
NGNA		Nongstoin Meghalaya, India	25 31 18.0 N (25.5217)	91 16 19.2 E (91.2720)	...	JHI	
NGP	R	Nagpur Maharashtra, India	21 09 .. N (21.1500)	79 03 .. E (79.0500)	311.0	NDI	
NJJJ	R	Nii-shima 2 Bonin Islands, Japan	34 24 .. N (34.4000)	139 17 .. E (139.2833)	180.0	JMA	
NKC	R	Novy Kostel Czechoslovakia	50 13 58.8 N (50.2330)	12 26 52.8 E (12.4480)	...	PRU	
NLO		Nicolai Mountain Oregon, U.S.A.	46 05 18.0 N (46.0883)	123 27 00.0 W (123.4500)	900.0	SEA	
NLW		Nelson Butte Washington, U.S.A. opened 198505. SEA code NEL.	48 04 41.8 N (48.0783)	120 20 17.7 W (120.3383)	1490.0	SEA	
NMMO		New Madrid Missouri, U.S.A.	36 35 16.8 N (36.5880)	89 33 07.2 W (89.5520)	90.0	SLM	
NOC	RD	Noumea New Caledonia opened 19851209.	22 10 12.0 S (22.1700)	166 15 00.0 E (166.2500)	5.0	NOU	GEOS
NOZ	D	North Gisborne North Island, New Zealand opened 199002.	38 37 04.8 S (38.6180)	178 02 12.0 E (178.0367)	60.0	WEL	
NPRI	R	New Production Reactor Idaho, U.S.A.	43 35 51.0 N (43.5975)	112 49 37.8 W (112.8272)	1513.0	USGS	
NRZ	RD	Ngoriki Road North Island, New Zealand opened 199006.	39 20 12.0 S (39.3367)	173 56 06.0 E (173.9350)	300.0	WEL	

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Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
NSS		Namsos Norway opened 19B702.	64 31 48.0 N (64.5300)	11 58 01.2 E (11.9670)	102.0	BER
NUF	R	 Finland	...	...	...	HEL
NWC		North Woods Club New York, U.S.A. opened 198610.	43 50 42.0 N (43.8450)	74 09 00.6 W (74.1502)	...	PAL
OBC		Olympics--Bonidu Creek Washington, U.S.A. opened 198007.	48 02 07.1 N (48.0353)	124 04 39.0 W (124.0775)	938.0	SEA
OBH		Olympics--Burnt Hill Washington, U.S.A.	47 19 34.5 N (47.3262)	123 51 57.0 W (123.8658)	383.0	SEA
OC2		Ocos 2 Guatemala opened 1988.	14 33 37.8 N (14.5605)	92 11 09.6 W (92.1860)	5.0	GCG
OCM		Ochomogo Costa Rica	9 53 41.4 N (9.8948)	83 57 39.0 W (83.9608)	1660.0	HDC
OD2		Odessa Site #2 Washington, U.S.A. opened 198906.	47 23 27.6 N (47.3910)	118 42 38.4 W (118.7107)	590.0	SEA
ODD1		Oddo Norway opened 19871203.	59 54 43.2 N (59.9120)	6 37 40.8 E (6.6280)	684.0	BER
ODZ	R	Otahuo Downs New Zealand	...	...	...	WEL
OFK		Olympics--Forks Washington, U.S.A. opened 198007.	47 57 00.0 N (47.9500)	124 21 28.1 W (124.3578)	134.0	SEA
OGTN		Old Graveyard Slough Tennessee, U.S.A.	36 25 12.0 N (36.4200)	89 29 09.6 W (89.4860)	91.0	SLM
OHTN		Owl Hoot Tennessee, U.S.A.	36 09 00.0 N (36.1500)	89 31 12.0 W (89.5200)	82.0	SLM
OJEN		Ojen Spain Also sent to NEIS by MDD.	36 06 00.0 N (36.1000)	5 32 13.2 W (5.5370)	804.0	SFS
OLLA		Los Ollos Venezuela opened 19B4.	10 01 08.4 N (10.0190)	66 48 14.4 W (66.8040)	947.0	CAR
OLO		Olympics--Lake Quinalt Washington, U.S.A. opened 198007.	47 39 58.1 N (47.6661)	123 48 31.5 W (123.8087)	121.0	SEA
OLT		Olot Spain opened 1986. Sent to NEIS by MDD.	42 08 39.6 N (42.1443)	2 28 27.6 E (2.4743)	700.0	MRB
OLW		Olympia Washington, U.S.A. opened 19860802	47 04 22.0 N (47.0728)	122 55 21.0 W (122.9225)	37.0	
OMWY	R	Oxenhope Moor England, United Kingdom	53 47 27.2 N (53.7909)	1 58 47.6 W (1.9799)	438.0	OMB
ONF		Office National des Forets Aquitaine, France opened 198502?	43 05 42.0 N (43.0950)	0 42 57.6 W (0.7160)	30.0	PAR
ONR		Olympics--North River Washington, U.S.A. opened 198007.	46 52 37.5 N (46.8771)	123 46 16.5 W (123.7713)	257.0	SEA
OOW		Octopus West Washington, U.S.A. opened 198406.	47 44 12.0 N (47.7367)	124 11 22.0 W (124.1894)	743.0	SEA
OR1		(Alternate Abbreviation for ORI)				
ORGA		 Alberta, Canada Sent to NEIS by PGC.	49 33 14.0 N (49.5539)	114 06 02.9 W (114.1008)	1257.0	
ORX		Orapa Piemonte, Italy	45 37 57.0 N (45.6325)	7 58 54.0 E (7.9817)	1250.0	GEN
OSCM		Ostuocan Chiapas, Mexico UNM code OSC.	17 24 20.0 N (17.4056)	93 20 05.0 W (93.3347)	...	UNM
OSD		Olympics--Snow Dome Washington, U.S.A. opened 198410.	47 49 15.0 N (47.8208)	123 42 06.0 W (123.7017)	2010.0	SEA
OSG		Oseberg A Platform Norway opened 1988.	60 29 49.2 N (60.4970)	2 52 33.6 E (2.8760)	-100.0	BER
OSM	R	Ostula Michaocan, Mexico	18 29 50.0 N (18.4972)	103 28 19.0 W (103.4719)	...	UNM
OSP		Olympics--Sooes Peak Washington, U.S.A. opened 198310.	48 17 05.5 N (48.2849)	124 35 23.3 W (124.5898)	585.0	SEA
OT2		Othello Washington, U.S.A. opened 198812.	46 43 17.0 N (46.7214)	119 14 05.0 W (119.2347)	355.0	SEA
OTR		Olympics--Tyee Ridge Washington, U.S.A. opened 198406.	48 05 00.0 N (48.0833)	124 20 39.0 W (124.3442)	712.0	SEA
OXFB	R	Oxford Borehole Mississippi, U.S.A.	34 28 30.4 N (34.4751)	89 20 36.0 W (89.3433)	-390.0	
PAB		San Pablo de los Montes Spain	9 32 45.0 N (9.5458)	4 20 54.0 W (4.3483)	...	MDD

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Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
PACW		Pacific Creek Wyoming, U.S.A. opened 198601.	43 54 08.3 N (43.9023)	110 29 07.0 W (110.4853)	2140.0	USBR
PAHZ		Ponekirikiri North Island, New Zealand	38 51 33.0 S (38.8592)	177 03 15.0 E (177.0542)	563.0	WELH
PALM	R	Palmichal Venezuela opened 1984.	10 12 16.6 N (10.2046)	64 26 19.7 W (64.4388)	1100.0	CAR
PALR		Palma Real Venezuela opened 1984.	11 00 00.0 N (11.0000)	63 54 39.6 W (63.9110)	920.0	CAR
PANV		Panamint Range Inyo County, California, U.S.A. opened 19880401.	36 23 54.0 N (36.3983)	117 05 57.0 W (117.0992)	1830.0	USGS
PATW		Paterson Washington, U.S.A. SEA code PAT.	45 52 50.1 N (45.8806)	119 45 40.1 W (119.7611)	300.0	SEA
PATZ	R	Pteroa North Island, New Zealand	38 22 53.0 S (38.3814)	176 15 30.0 E (176.2583)	940.0	WELH
PAY		 Mexico	17 28 18.0 N (17.4717)	93 29 28.8 W (93.4913)	...	UNM
PCB		Port Clements British Columbia, Canada	53 42 22.0 N (53.7061)	132 34 03.0 W (132.5675)	634.0	OTTR
PCG		Pacaya Guatemala opened 198705?	14 23 ... N (14.3833)	90 39 .. W (90.6500)	2550.0	GCG
PCP		Pian Castagno-Ponzone Piemonte, Italy opened 19890315.	44 32 30.6 N (44.5418)	8 32 42.6 E (8.5452)	770.0	GEN
PCYT	R	P'eng-chia Yu China (Taiwan)	25 37 46.0 N (25.6294)	122 04 16.5 E (122.0713)	101.7	TAP
PDCR		Pedra do Cavalo Reservoir Bahia, Brazil opened 19870101.	12 31 52.8 S (12.5313)	39 07 21.0 W (39.1225)	220.0	VAO
PDUI		Pindiu New Guinea, Papua New Guinea opened 19880616.	6 26 49.2 S (6.4470)	147 30 39.6 E (147.5110)	950.0	PMG
PECU	C	Ecuador Network Ecuador	0 23 42.0 S (0.3950)	78 36 09.0 W (78.6025)	3550.0	QUI
PENM	R	 Chiapas, Mexico IIM code PEN.	17 26 09.6 N (17 4360)	93 31 40.8 W (93.5280)	...	IIM
PEO	R	Puerto Escondido Oaxaca, Mexico	15 51 04.2 N (15.8512)	97 03 19.8 W (97.0555)	3.0	UNM
PFH		Pahoa Fire House Hawaii, Hawaii, U.S.A. opened 1986.	19 29 48.8 N (19.4969)	154 56 55.0 W (154.9486)	201.0	HON
PGB		Panagyurishte Bulgaria opened 1988.	42 33 00.0 N (42.5500)	24 10 00.1 E (24.1667)	775.0	SOF
PGD		Poggio Sodo Emilia-Romagna, Italy Also sent to NEIS by ROM.	43 52 31.0 N (43.8753)	11 43 17.0 E (11.7214)	1600.0	ERC
PGF		Piaggiola Corse, France opened 19891115.	42 32 54.0 N (42.5483)	8 59 58.0 E (8.9994)	1130.0	LDG
PGO		Gresham Oregon, U.S.A. opened 198206.	45 28 00.0 N (45.4667)	122 27 10.0 W (122.4528)	237.0	SEA
PGW		Port Gamble Washington, U.S.A. opened 198504.	47 49 18.8 N (47.8219)	122 35 57.7 W (122.5994)	122.0	SEA
PGY		Peter Gray Mountain New York, U.S.A. opened 198611.	43 42 27.6 N (43.7077)	74 02 42.6 W (74.0452)	...	PAL
PGZ	D	Pongaroa North Island, New Zealand opened 198804.	40 37 07.8 S (40.6188)	176 16 25.2 E (176.2737)	60.0	WEL
PICO		Pico Azores, Portugal opened 19880526.	38 30 03.0 N (38.5008)	28 25 32.0 W (28.4256)	775.0	PDA
PII	D	Piso Toscana, Italy	43 43 16.3 N (43.7212)	10 31 25.8 E (10.5238)	50.0	ROM
PINI		Pine Creek Idaho, U.S.A. opened 198601.	43 30 27.4 N (43.5076)	111 20 44.6 W (111.3457)	1932.0	USBR
PINR		Pinar Spain	36 29 56.4 N (36.4990)	6 07 06.0 W (6.1183)	10.0	SFS
PKO		Pickens Oklahoma, U.S.A. opened 19871016.	34 23 50.3 N (34.3973)	95 01 51.8 W (95.0311)	264.0	TUL
PLAT		Plato Spain Also sent to NEIS by MDD.	36 07 15.6 N (36.1210)	5 45 30.6 W (5.7585)	460.0	SFS
PLAV		Platillon Venezuela opened 1984. CAR code PLAT.	9 52 26.4 N (9.8740)	67 30 08.6 W (67.5024)	1830.0	CAR
PLBC		Pleasant Camp British Columbia, Canada opened 19900920.	59 27 24.0 N (59.4567)	136 21 54.0 W (136.3650)	280.0	OTTR

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Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
PLR		Palermo Sicilia, Italy	38 08 38.4 N (38.1440)	13 20 51.6 E (13.3477)	60.0	
PLRO	RD	Paularo Friuli-Venezia Giulia, Italy opened 19880101.	46 32 59.0 N (46.5497)	13 08 53.0 E (13.1481)	1420.0	TRI
PN1	R	Presa Penitas No. 1 Chiapas, Mexico	17 28 08.4 N (17.4690)	93 29 16.8 W (93.4880)	...	IIM
PN2	R	Presa Penitas No. 2 Chiapas, Mexico	17 26 16.8 N (17.4380)	93 27 01.8 W (93.4505)	...	IIM
PN3	R	Presa Penitas No. 3 Chiapas, Mexico	17 21 14.4 N (17.3540)	93 36 28.8 W (93.6080)	...	IIM
PN4	R	Presa Penitas No. 4 Chiapas, Mexico	17 10 44.4 N (17.1790)	93 23 42.0 W (93.3950)	...	IIM
PN6		Pavlof North-6 Alaska Peninsula, Alaska, U.S.A.	55 27 07.1 N (55.4520)	161 54 53.3 W (161.9148)	814.0	PAL
POA2		Poas 2 Costa Rica opened 19860506.	10 10 37.8 N (10.1772)	84 15 03.0 W (84.2508)	2500.0	HDC
POB1	C	Pontebba Friuli-Venezia Giulia, Italy 19830130-19880101.	46 30 48.0 N (46.5133)	13 16 36.0 E (13.2767)	860.0	TRI
POF		Pofadder Cape Province, South Africa opened 1986.	29 22 54.0 S (29.3817)	19 57 00.0 E (19.9500)	...	PRE
PORM	R	 Chiapas, Mexico UNM code POR.	17 10 44.4 N (17.1790)	93 23 42.0 W (93.3950)	...	UNM
PORP		Portuguez Puerto Rico opened 198908.	18 03 13.7 N (18.0538)	66 38 13.2 W (66.6370)	218.0	MPR
PPCY		Paphos Cyprus opened 198702.	34 53 05.0 N (34.8847)	32 20 42.0 E (32.3450)	60.0	CSS
PPD		Presidente Prudente Sao Paulo, Brazil opened 198802.	22 01 53.0 S (22.0314)	51 18 43.0 W (51.3119)	406.0	VAO
PRP		Porcupine Dome Central Alaska, Alaska, U.S.A. opened 19900216. GIA code PDP.	65 31 04.2 N (65.5178)	145 31 20.4 W (145.5223)	1498.0	GIA
PRSC	R	 Czechoslovakia	49 00 54.0 N (49.0150)	18 33 14.4 E (18.5540)	...	PRU
PS4		Pavlof South-4 Alaska Peninsula, Alaska, U.S.A.	55 21 14.3 N (55.3540)	161 52 05.5 W (161.8682)	520.0	PAL
PSG2		Puerto de San Jose 2 Guatemala opened 1988. GCG code PS2.	13 57 07.8 N (13.9522)	90 48 55.8 W (90.8155)	5.0	GCG
PSL	R	Pistoia Toscana, Italy	44 00 28.0 N (44.0078)	10 57 56.0 E (10.9656)	810.0	PRT
PSM		Palmasola Oaxaca, Mexico opened 199001.	16 42 17.4 N (16.7048)	95 02 27.6 W (95.0410)	750.0	UNM
PSR		Paul Sauer Dam Cape Province, South Africa opened 1988.	33 40 48.0 S (33.6800)	24 24 36.0 E (24.4100)	360.0	PRE
PTF	R	Prato Toscana, Italy	43 57 34.0 N (43.9594)	11 04 11.0 E (11.0697)	550.0	PRT
PTH		Pitharagarh Uttar Pradesh, India	29 33 .. N (29.5500)	80 13 .. E (80.2167)	1669.0	NDI
PTS		Isola di Pantelleria Italy	36 48 25.9 N (36.8072)	11 59 34.4 E (11.9929)	150.0	ERC
PTT		Piatra Neamt Romania opened 19870115.	46 56 05.0 N (46.9347)	26 23 10.0 E (26.3861)	350.0	BUC
PUCA	R	Punta Cana Dominican Republic	18 35 16.8 N (18.5880)	68 24 10.2 W (68.4028)	...	SDD
PURC		Volcan Purace Colombia opened 1987.	2 19 19.8 N (2.3222)	76 21 42.0 W (76.3617)	3950.0	UVC
PUYF		Puyloubier Provence-Cote d'Azur, France	43 31 56.3 N (43.5323)	5 42 01.1 E (5.7003)	460.0	STR
PUZ	D	Puketiti North Island, New Zealand opened 19891211.	38 04 24.0 S (38.0733)	178 15 25.8 E (178.2572)	420.0	WEL
PVF	R	Porvoo Finland	...	...	...	HEL
PVV		Pavlof Volcano Alaska Peninsula, Alaska, U.S.A.	55 22 27.1 N (55.3742)	161 47 23.9 W (161.7900)	164.0	PAL
PXO	R	 Oaxaca, Mexico	15 44 52.2 N (15.7478)	96 18 10.8 W (96.3030)	25.0	UNM
PZZ		Prazzo (Strappo) Piemonte, Italy	44 30 18.0 N (44.5050)	7 06 04.8 E (7.1013)	1420.0	GEN
QAP	F	(phase code designation)				
QASM		Qassim Saudi Arabia opened 198801.	26 05 24.0 N (26.0900)	43 31 58.8 E (43.5330)	675.0	RYD
QDM	F	Queensland Dept. of Mines, Australia				
QHW	R	Quartz Hill North Island, New Zealand opened 19851015.	41 15 07.0 S (41.2519)	174 41 26.0 E (174.6906)	190.0	WELW

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Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
OIS		Mount Isa Queensland, Australia opened 19870615.	20 33 27.7 S (20.5577)	139 36 18.7 E (139.6052)	330.0	AUST
OLP		Quilpie Queensland, Australia opened 19890812.	26 35 01.3 S (26.5837)	144 14 05.3 E (144.2348)	210.0	AUST
OPCP	F	(phase code designation)				
OPCS	F	(phase code designation)				
OPKP	F	(phase code designation)				
OPP	F	(phase code designation)				
OPPP	F	(phase code designation)				
OPPS	F	(phase code designation)				
OPSS	F	(phase code designation)				
ORHJ	R	..... Jordan	29 41 06.0 N (29.6850)	35 19 19.2 E (35.3220)	810.0	JSO
ORI		Ouorto Campania, Italy	40 52 40.8 N (40.8780)	14 08 44.9 E (14.1458)	...	ROM
ORZ	R	Quartz Range New Zealand	...	...	...	WEL
OSCP	F	(phase code designation)				
OSCS	F	(phase code designation)				
OSKP	F	(phase code designation)				
OSKS	F	(phase code designation)				
OSPP	F	(phase code designation)				
OSSP	F	(phase code designation)				
OSSS	F	(phase code designation)				
OTBJ		..... Jordan opened 199001.	31 07 12.0 N (31.1200)	36 40 19.2 E (36.6720)	760.0	JSO
OTFJ		..... Jordan opened 199003.	31 49 22.8 N (31.8230)	37 28 48.0 E (37.4800)	648.0	JSO
OTRJ		..... Jordan opened 199003.	31 18 00.0 N (31.3000)	36 00 36.0 E (36.0100)	876.0	JSO
OUES	R	Lomo Quito Espuelo Dominican Republic opened 19860902.	19 21 10.8 N (19.3530)	70 08 52.8 W (70.1480)	...	SDD
OUIL		Quilotoa Ecuador opened 1991.	0 45 25.2 S (0.7570)	78 55 30.7 W (78.9252)	3430.0	OUI
OUTJ		Outrana Jordan opened 1987.	31 17 55.2 N (31.2987)	36 00 36.0 E (36.0100)	876.0	JSO
OXP	F	(phase code designation)				
OXS	F	(phase code designation)				
OZA		Ouezalapa El Salvador	13 31 26.0 N (13.5239)	88 59 49.0 W (88.9969)	250.0	SSS
RAMW		Rammel Mountain Wyoming, U.S.A. opened 198601.	43 53 20.3 N (43.8890)	110 57 00.8 W (110.9502)	2512.0	USBR
RC1		Royal City Washington, U.S.A. opened 19880527.	46 56 36.0 N (46.9433)	119 26 00.0 W (119.4333)	500.0	SEA
RDN		Redoubt North Western Alaska, Alaska, U.S.A. opened 1988.	60 30 49.8 N (60.5138)	152 45 46.8 W (152.7630)	1372.0	AGS
RDO		Rodhopi Greece opened 1988.	41 08 46.2 N (41.1462)	25 32 15.0 E (25.5375)	100.0	ATH
RDX		Rancho Dowling Baja California, Mexico opened 19880929.	31 55 56.4 N (31.9323)	115 56 51.0 W (115.9475)	1680.0	ECX
RE1		(Alternate Abbreviation for RCL)				
RECU		(Alternate Abbreviation for VC1)				
REDW		Red Top Meadow Wyoming, U.S.A. opened 198601.	43 21 44.6 N (43.3624)	110 51 06.4 W (110.8518)	2192.0	USBR
REF		Redoubt East Flank Western Alaska, Alaska, U.S.A. opened 19900314.	60 29 21.0 N (60.4892)	152 42 06.0 W (152.7017)	1801.0	AGS
REMR		Mt. Rainier--Emerald Ridge Washington, U.S.A. opened 19890712. SEA code RER.	46 49 09.2 N (46.8192)	121 50 27.3 W (121.8409)	1756.0	SEA
REMW		Rembrandt Washington, U.S.A. opened 198701. SEA code REM.	46 11 57.0 N (46.1992)	122 11 03.0 W (122.1842)	2102.0	SEA
REVF		Revere Provence-Cote d'Azur, France	43 44 24.0 N (43.7400)	7 22 03.0 E (7.3675)	700.0	STR
RFI		Roccamonfina Campania, Italy	41 18 01.6 N (41.3004)	13 59 05.2 E (13.9848)	...	ROM
RGRS		Roger Stewart South Carolina, U.S.A. opened 19860601. GLD code RGR.	32 54 19.8 N (32.9055)	80 11 37.7 W (80.1938)	-52.0	USGS
RGS		Rognes Norway opened 19851222.	63 01 15.6 N (63.0210)	10 26 06.0 E (10.4350)	120.0	BER
RIN2	C	Rincon de la Vieja 2 Costa Rica 19870520-19880826. Replaced by RIN3.	10 49 06.6 N (10.8185)	85 20 58.2 W (85.3495)	1400.0	HDC

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RIN3		Rincon de la Vieja 3 Costa Rica opened 19880826.	10 47 27.0 N (10.7908)	85 22 43.2 W (85.3787)	900.0	HDC
RIY		Rijeka Hrvatska (Croatia), Yugoslavia opened 19890504.	45 20 38.4 N (45.3440)	14 23 09.6 E (14.3860)	75.0	ZAG
RND		Reindeer Central Alaska, Alaska, U.S.A. opened 1986. USTN opened 199101.	63 24 22.2 N (63.4062)	148 51 10.2 W (148.8528)	991.0	GIA USTN
ROBI	R	Boca de Chavan Dominican Republic opened 19860923.	18 24 36.0 N (18.4100)	68 50 24.0 W (68.8400)	...	SDD
ROKY	R	Rotten Point Kentucky, U.S.A.	37 54 32.4 N (37.9090)	83 55 33.6 W (83.9260)	433.0	BHKY
ROSA		Rosais Azores, Portugal opened 198907.	38 43 15.0 N (38.7208)	28 14 49.0 W (28.2469)	310.0	PDA
RPN	D	Rapa Nui Easter Island, Valparaiso, Chile opened 198707.	27 07 36.0 S (27.1267)	109 20 04.0 W (109.3344)	110.0	SAN IDA IRIS
RPW		Rockpart Washington, U.S.A.	48 26 54.0 N (48.4483)	121 30 49.0 W (121.5136)	850.0	SEA
RRI2		Red Ridge Idaho, U.S.A. opened 19860702.	43 21 50.4 N (43.3640)	111 19 08.4 W (111.3190)	2566.0	REX USTN
RRL		Cesana Torinese Piemante, Italy	44 55 12.6 N (44.9202)	6 47 04.2 E (6.7845)	2131.0	GEN
RS1		Redoubt South No. 1 Western Alaska, Alaska, U.S.A. opened 19900910.	60 27 36.6 N (60.4602)	152 45 28.8 W (152.7580)	1864.0	AGS
RS2		Redoubt South No. 2 Western Alaska, Alaska, U.S.A. opened 19900910.	60 27 46.8 N (60.4630)	152 45 26.4 W (152.7573)	1953.0	AGS
RSA	R	Sar-Sar Marocca	34 53 10.0 N (34.8861)	5 49 30.0 W (5.8250)	...	CNRM
RSHJ		... Jordan opened 198911.	30 15 39.6 N (30.2610)	35 13 58.8 E (35.2330)	357.0	JSO
RSM		Repubblico di San Marino San Marino opened 1988.	43 55 39.7 N (43.9277)	12 27 08.4 E (12.4523)	...	ROM
RSO		Redoubt South Western Alaska, Alaska, U.S.A. opened 19900301.	60 27 43.8 N (60.4622)	152 45 13.8 W (152.7538)	1921.0	AGS
RSP		Rena Superiore Piemante, Italy	45 09 06.0 N (45.1517)	7 15 25.8 E (7.2572)	1250.0	GEN
RTC	R	Robot Centre Marocca	33 58 .. N (33.9667)	6 50 .. W (6.8333)	...	CNRM
RTMM	R	Retamim Israel	31 03 00.0 N (31.0500)	34 40 48.0 E (34.6800)	200.0	JER
RUP		Ruppelstein Rheinland-Pfalz, Fed. Rep. of Germany	49 42 06.0 N (49.7017)	7 03 37.0 E (7.0603)	750.0	KRW
RUWJ		... Jordan opened 1989.	32 28 30.0 N (32.4750)	38 49 40.8 E (38.8280)	960.0	JSO
RUZ	R	Rourimu New Zealand	...	...	...	WEL
RVC		Mount Rainier--Vaight Creek Washington, U.S.A. opened 198301.	46 56 34.5 N (46.9429)	121 58 17.3 W (121.9715)	1000.0	SEA
RVVM	R	Revivim Israel	31 02 24.0 N (31.0400)	34 43 12.0 E (34.7200)	200.0	JER
RVW		Rose Valley Washington, U.S.A. opened 198102.	46 08 58.2 N (46.1495)	122 44 37.2 W (122.7437)	460.0	SEA
RYD		Riyadh Saudi Arabia opened 1986.	24 43 12.0 N (24.7200)	46 36 36.0 E (46.6100)	650.0	RYD
RZN		Rozhen Bulgaria opened 1988.	41 41 16.8 N (41.6880)	24 42 57.6 E (24.7160)	1730.0	SOF
SACA		Lamo Carmona Dominican Republic opened 19860712.	18 58 39.0 N (18.9775)	69 40 49.2 W (69.6803)	...	SDD
SADC	RD	Saddle Peak Los Angeles County, California, U.S.A. opened 197308. PAS code SAD.	34 04 51.6 N (34.0810)	118 39 54.0 W (118.6650)	732.0	PAS
SAE		Statte Puglia, Italy	40 33 43.0 N (40.5619)	17 12 22.0 E (17.2061)	...	ROM
SAGI		Saggi Highlands Israel	30 13 12.0 N (30.2200)	34 39 36.0 E (34.6600)	560.0	JER
SAIU		Southern Antelope Island Davis County, Utah, U.S.A. opened 19900510.	40 51 17.4 N (40.8548)	112 10 53.4 W (112.1815)	1384.0	SLC
SALC		Salvajina Colombia	2 58 22.5 N (2.9729)	76 41 42.6 W (76.6952)	1430.0	UVC
SAOF		Saorge Provence-Cote d'Azur, France	43 59 11.0 N (43.9864)	7 33 19.0 E (7.5553)	600.0	STR
SAON	R	Isla Saona Dominican Republic	18 11 .. N (18.1833)	68 46 .. W (68.7667)	...	SDD

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SASA		Sand Point Alaska Peninsula, Alaska, U.S.A. PAL code SAS.	55 20 24.0 N (55.3400)	160 29 49.8 W (160.4972)	23.0	PAL
SBCZ		Sonora Basin South Island, New Zealand	45 05 32.0 S (45.0922)	169 18 40.0 E (169.3111)	801.0	WELC
SBG		Sibinal Guatemala opened 198603.	15 07 55.2 N (15.1320)	92 03 12.6 W (92.0535)	2860.0	GCG
SBM		South Baldy New Mexico, U.S.A. SNM code SB.	33 58 30.6 N (33.9752)	107 10 50.4 W (107.1807)	3230.0	SNM
SCSP	F	(phase code designation)				
SCX		San Cristobol de las Casas Chiapas, Mexico opened 1987.	16 44 09.0 N (16.7358)	92 38 04.2 W (92.6345)	...	UNM
SDG		Sourdough Central Alaska, Alaska, U.S.A. opened 1986.	62 31 37.2 N (62.5270)	145 32 36.0 W (145.5433)	625.0	GIA
SDI		San Donato Val di Camino Lazio, Italy	41 42 21.0 N (41.7058)	13 48 55.5 E (13.8154)	720.0	ROM
SDOM	R	Mount Sodom Israel	31 04 48.0 N (31.0800)	35 23 24.0 E (35.3900)	-200.0	JER
SEI	R	Scarperia Toscana, Italy	44 03 16.0 N (44.0544)	11 21 23.0 E (11.3564)	610.0	PRT
SEJ	R	Sejong Station South Shetland Islands, Antarctica	62 13 15.0 S (62.2208)	58 45 10.0 W (58.7528)	18.0	
SFI		Santo Sofia Emilia-Romagna, Italy opened 1987.	43 55 15.6 N (43.9210)	11 51 07.2 E (11.8520)	...	ROM
SGB		San Diego Bay Alaska Peninsula, Alaska, U.S.A.	55 32 45.0 N (55.5458)	160 27 13.8 W (160.4538)	275.0	
SGI	C	San Gemini Italy	...	...	...	
SHBJ		Al Shahba Jordan 19871024-19890326.	32 18 09.0 N (32.3025)	37 34 30.0 E (37.5750)	960.0	JSO
SHGH		Shoi Hills Ghana opened 1987.	5 55 42.0 N (5.9283)	0 02 31.0 W (0.0419)	84.0	KUK
SHMJ		... Jordan opened 198909.	32 43 37.2 N (32.7270)	35 45 50.4 E (35.7640)	363.0	JSO
SHWJ		... Jordan opened 198911.	30 22 58.8 N (30.3830)	35 30 00.0 E (35.5000)	1734.0	JSO
SILC		Silvia Calombio opened 1990.	2 41 16.8 N (2.6880)	76 20 22.8 W (76.3397)	3150.0	UVC
SIPM	R	... Chiapas, Mexico UNM code SIP.	17 13 22.8 N (17.2230)	93 09 25.2 W (93.1570)	...	UNM
SIV		San Ignacio de Velasco Bolivia opened 199003.	15 59 28.7 S (15.9913)	61 04 19.9 W (61.0722)	520.0	LPZ
SJAS		San Jacinto El Salvador SSS code SJA.	13 40 .. N (13.6667)	89 10 .. W (89.1667)	1100.0	SSS
SJID		St. Joe Idaho, U.S.A. opened 198710.	47 21 50.4 N (47.3640)	116 24 40.2 W (116.4112)	1775.0	
SJMO		St. John's Bayou Missouri, U.S.A.	36 37 44.4 N (36.6290)	89 28 33.6 W (89.4760)	91.0	SLM
SJX	R	San Joaquin Baja California, Mexico opened 1986.	31 45 46.2 N (31.7628)	115 57 31.2 W (115.9587)	...	ECX
SKDB		... Saint Christopher, Saint Christopher-Nevis	17 23 48.8 N (17.3969)	62 48 30.0 W (62.8083)	...	TRN
SKSP	F	(phase code designation)				
SLKY		(Alternate Abbreviation for FLKY)				
SLZ	R	Solwezi Zambia	...	...	...	
SMAM	R	San Marcos Guerrero, Mexico UNM code SMA.	16 47 07.8 N (16.7855)	99 23 53.4 W (99.3982)	...	UNM
SMCN		San Marcos Nicaragua opened 1990. APY code SMC.	11 54 24.0 N (11.9067)	86 12 07.0 W (86.2019)	...	APY
SMG		Samos Greece opened 198906.	37 42 31.2 N (37.7087)	26 50 13.2 E (26.8370)	...	ATH
SMJM	R	Simojovel Chiapas, Mexico IIM code SMJ.	17 08 02.4 N (17.1340)	92 42 54.0 W (92.7150)	...	IIM
SMLT	R	Sun Moon Lake China (Taiwan)	23 52 58.8 N (23.8830)	120 53 59.6 E (120.8999)	1014.8	TAP
SMMM		San Miguel Ometusco Mexico, Mexico opened 1988. UNM code SMM.	19 44 23.4 N (19.7398)	98 44 25.8 W (98.7405)	...	UNM

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Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
SMNM		San Marcial New Mexico, U.S.A. SNM code SMC.	33 46 43.2 N (33.7787)	107 01 09.6 W (107.0193)	1560.0	SNM
SNKA		Sanak Island Alaska Peninsula, Alaska, U.S.A. PAL code SNK.	54 28 26.4 N (54.4740)	162 46 31.2 W (162.7753)	159.0	PAL
SNOW		Snow King Mountain Wyoming, U.S.A. opened 198601.	43 27 44.9 N (43.4625)	110 45 18.8 W (110.7552)	2390.0	USBR
SNQU		Santaquin Juab County, Utah, U.S.A. opened 19900830.	39 47 40.8 N (39.7947)	111 54 09.0 W (111.9025)	1853.0	SLC
SODA		Al Soda Saudi Arabia	18 17 27.6 N (18.2910)	42 22 26.4 E (42.3740)	2600.0	RYD
SOG		Santioguito Guatemala opened 198602? GCG code STG.	14 46 34.8 N (14.7763)	91 35 15.6 W (91.5877)	2950.0	GCG
SOG2		Santioguito 2 Guatemala opened 198612? GCG code ST2.	14 43 01.8 N (14.7172)	91 34 13.2 W (91.5703)	1560.0	GCG
SOI	D	Samo Calabria, Italy	38 04 19.5 N (38.0721)	16 03 17.7 E (16.0549)	...	ROM
SOLO	R	Sioux Lookout Ontario, Canada opened 19881024.	50 01 16.7 N (50.0213)	92 04 52.3 W (92.0812)	373.0	OTTR
SONG		Songo Mozambique opened 198511.	15 36 12.0 S (15.6033)	32 46 42.0 E (32.7783)	900.0	LMM
SOO	R	Sioux Lookout Ontario, Canada opened 19870607.	50 04 34.2 N (50.0762)	91 53 16.8 W (91.8880)	358.0	OTTR
SOSW		Source of Smith Creek Washington, U.S.A. SEA code SOS.	46 14 12.0 N (46.2367)	122 08 12.0 W (122.1367)	1270.0	SEA
SQF		Squaw Harbor Alaska Peninsula, Alaska, U.S.A.	55 13 12.0 N (55.2200)	160 33 44.4 W (160.5623)	360.0	PAL
SQTA		Sankt Quirin Austria opened 19890501.	47 13 13.8 N (47.2205)	11 12 31.4 E (11.2087)	1307.0	VIE
SRAT		Sarat Abidah Saudi Arabia opened 19900613.	18 02 20.4 N (18.0390)	43 09 43.2 E (43.1620)	2300.0	RYD
SRFA		Sharaf Saudi Arabia opened 1986.	28 55 48.0 N (28.9300)	35 11 16.8 E (35.1880)	...	RYD
SRNI		Srinagar Jammu and Kashmir, India NDI code SRN.	33 57 .. N (33.9500)	74 45 .. E (74.7500)	...	NDI
SRP		Santa Rosa Pueblo, Mexico	18 53 48.0 N (18.8967)	97 46 48.0 W (97.7800)	...	UNM
SRO		San Roque Spain Also sent to NEIS by MDD.	36 15 27.0 N (36.2575)	5 22 27.0 W (5.3742)	202.0	SFS
SRU		San Rafael Emery County, Utah, U.S.A. opened 19901110.	39 06 39.0 N (39.1108)	110 31 25.8 W (110.5238)	1804.0	SLC
SSO		Sasso d'Italia (Macerata) Marche, Italy opened 198705.	43 17 34.8 N (43.2930)	13 25 12.0 E (13.4200)	302.0	SSO
STD		Studebaker Ridge Washington, U.S.A. opened 198205.	46 14 16.0 N (46.2378)	122 13 21.9 W (122.2227)	1268.0	SEA
STEW		Steamboat Mountain Wyoming, U.S.A. opened 198601.	44 02 59.0 N (44.0497)	110 40 54.0 W (110.6817)	2316.0	USBR
STF		Statfjord A Platform Norway	61 15 21.6 N (61.2560)	1 49 01.2 E (1.8170)	-148.0	BER
SULJ	R	Sultana Jordan	31 05 12.0 N (31.0867)	36 04 36.0 E (36.0767)	951.0	JSO
SVTA	R	Shivta Israel	30 55 48.0 N (30.9300)	34 37 12.0 E (34.6200)	370.0	JER
SWO	D	Sudbury Ontario, Canada opened 198705.	46 43 58.0 N (46.7328)	80 59 58.0 W (80.9994)	372.0	ECTN
SXG		Sacranix Guatemala opened 1986. GCG code SCG.	15 30 21.0 N (15.5058)	90 25 10.8 W (90.4197)	1904.0	GCG
SXT		Sachs Harbour Northwest Territories, Canada opened 19860813.	71 59 21.0 N (71.9892)	125 14 23.0 W (125.2397)	77.0	OTTR
SYI		Shuyak Island Kodiak Island, Alaska, U.S.A. opened 19900827.	58 36 36.0 N (58.6100)	152 23 27.0 W (152.3908)	149.0	GIA
SZAF	R	Shezaf Israel	30 54 .. N (30.9000)	34 33 .. E (34.5500)	290.0	JER
SZH		Strozhitsa Bulgaria opened 1988.	43 16 .. N (43.2667)	25 56 .. E (25.9333)	310.0	SOF

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SZO	D	Sudbury Ontario, Canada opened 19870124.	46 26 17.0 N (46.4381)	81 29 46.0 W (81.4961)	312.0	ECTN
TAHZ		Taraponui North Island, New Zealand	39 08 09.0 S (39.1358)	176 44 25.0 E (176.7403)	1297.0	WELH
TAIF		At Ta'if Saudi Arabia opened 198902.	21 17 31.2 N (21.2920)	40 21 14.4 E (40.3540)	1680.0	RYD
TANM	R	..... Chiapas, Mexico UNM code TAN.	16 55 08.4 N (16.9190)	93 06 54.0 W (93.1150)	...	UNM
TARW		Grand Targhee Resort Wyoming, U.S.A. opened 198601.	43 45 49.7 N (43.7638)	110 59 26.9 W (110.9908)	2091.0	USBR
TBC		Trig B South Island, New Zealand	45 08 47.0 S (45.1464)	169 19 49.0 E (169.3303)	619.0	WELC
TBM		Table Mountain Washington, U.S.A.	47 10 10.1 N (47.1695)	120 35 54.0 W (120.5983)	1064.0	SEA
TBO	R	Thunder Bay Ontario, Canada opened 19870123.	48 38 50.4 N (48.6473)	89 24 30.0 W (89.4083)	468.0	OTTR
TCBC		Telegraph Creek British Columbia, Canada opened 19891010.	57 55 23.0 N (57.9231)	131 16 55.0 W (131.2819)	1356.0	OTTR
TCG		Tacana Guatemala opened 198607.	15 07 22.2 N (15.1228)	92 05 09.0 W (92.0858)	3100.0	GCG
TCO		Three Creek Meadows Oregon, U.S.A. opened 19870827.	44 06 27.0 N (44.1075)	121 36 00.0 W (121.6000)	1975.0	SEA
TCPM	R	Tecamachalco Puebla, Mexico UNM code TCP.	18 53 24.0 N (18.8900)	97 41 22.0 W (97.6894)	...	UNM
TCT		Tennessee City Tennessee, U.S.A. opened 19880310.	36 00 19.2 N (36.0053)	87 33 10.2 W (87.5528)	245.0	TVA
TCUT		Toone Canyon Morgan County, Utah, U.S.A. opened 198908.	41 07 05.4 N (41.1182)	111 24 38.4 W (111.4107)	2316.0	SLC
TDH		Tom, Dick, Harry Mountain Oregon, U.S.A. opened 198209.	45 17 23.4 N (45.2898)	121 47 25.2 W (121.7903)	1541.0	SEA
TDL		Trodedollar Lake Washington, U.S.A. opened 198311.	46 21 03.0 N (46.3508)	122 12 57.0 W (122.2158)	1400.0	SEA
TDS	D	Terranovo di Sibari Calabria, Italy	39 39 31.8 N (39 6588)	16 20 16.3 E (16.3379)	273.0	ROM
TEGH		Tema Ghana opened 1987.	5 38 12.0 N (5.6367)	0 00 05.0 W (0.0014)	14.0	KUK
TEHZ	R	Te Atua North Island, New Zealand	39 59 22.0 S (39.9894)	176 48 40.0 E (176.8111)	407.0	WELH
TEO	R	Teotitlan Oaxaca, Mexico	18 08 17.6 N (18.1382)	97 04 30.6 W (97.0752)	1060.0	UNM
TGL		Tana Glacier Central Alaska, Alaska, U.S.A. opened 19880701.	60 45 21.0 N (60.7558)	142 49 46.8 W (142.8297)	1234.0	GIA
THY		Trims Highway Central Alaska, Alaska, U.S.A. opened 1986.	63 25 00.0 N (63.4167)	145 45 07.8 W (145.7522)	732.0	GIA
THZ	D	Taphouse South Island, New Zealand opened 19891130.	41 45 49.8 S (41.7638)	172 54 13.2 E (172.9037)	760.0	WEL
TIH		Tihany Hungary opened 1987.	46 54 00.0 N (46.9000)	17 53 34.8 E (17.8930)	187.0	BUD
TIZ	R	Toro Hills New Zealand	...	...	...	WEL
TLA		Tapochula Chiapas, Mexico	15 01 44.0 N (15.0289)	92 12 00.0 W (92.2000)	...	UNM
TLC		Trig L South Island, New Zealand	45 11 28.7 S (45.1913)	169 04 16.7 E (169.0713)	1393.0	WELC
TLI	D	Talmassons Friuli-Venezia Giulia, Italy opened 19851127.	45 55 18.0 N (45.9217)	13 06 07.0 E (13.1019)	25.0	TRI
TMDA		Turtle Mountain Alberta, Canada Sent to NEIS by PGC.	49 34 52.0 N (49.5811)	114 23 57.1 W (114.3992)	1541.0	
TME		Tecomasuche El Salvador	14 01 01.0 N (14.0169)	89 21 20.0 W (89.3556)	516.0	SSS
TMM2	R	Technologico de Monterrey 2 Nuevo Leon, Mexico	25 41 57.0 N (25.6992)	100 15 58.8 W (100.2663)	...	UNM
TMW		Tok Microwave Central Alaska, Alaska, U.S.A. opened 1986. USTN opened 199101.	63 19 28.2 N (63.3245)	142 59 48.0 W (142.9967)	495.0	GIA USTN
TNRJ	R	Tenryu Shizuoka, Honshu, Japan	34 54 28.1 N (34.9078)	137 53 06.7 E (137.8852)	66.0	CDPJ
TOD		Tromm Hessen, Fed. Rep. of Germany opened before 197410.	49 36 20.4 N (49.6057)	8 48 13.8 E (8.8038)	570.0	KRW

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TORT	R	Lo Tortuga Venezuela opened 1984.	10 54 30.2 N (10.9084)	65 18 50.0 W (65.3139)	40.0	CAR
TOUF		Mont Tourneroit Provence-Cote d'Azur, France	44 00 48.6 N (44.0135)	7 14 53.9 E (7.2483)	1830.0	STR
TPAW		Teton Poss Wyoming, U.S.A. opened 198601.	43 29 24.3 N (43.4901)	110 57 02.3 W (110.9506)	2512.0	USBR
TPE		Tepeleno Albonio opened 198404.	40 17 42.7 N (40.2952)	20 00 39.2 E (20.0109)	240.0	TIR
TPG	R	Tlopo Guerrero, Mexico	17 33 38.4 N (17.5607)	98 33 19.8 W (98.5555)	1100.0	UNM
TQTN		Tranquillity Tennessee, U.S.A. opened 19860716.	35 30 57.6 N (35.5160)	84 43 33.0 W (84.7258)	260.0	TVA
TREF		Trevoresse Provence-Cote d'Azur, France	43 37 26.8 N (43.6241)	5 23 02.0 E (5.3839)	460.0	STR
TRF		Thorofare Mountain Central Alaska, Alaska, U.S.A. opened 198908.	63 27 03.6 N (63.4510)	150 17 14.4 W (150.2873)	1717.0	GIA
TRXW		Triangle-X Ranch Wyoming, U.S.A. opened 198601.	43 44 57.3 N (43.7493)	110 33 36.5 W (110.5601)	2256.0	USBR
TSUJ	R	Tsu 2 Mie, Honshu, Japan	34 42 36.0 N (34.7100)	136 25 12.0 E (136.4200)	30.0	JMA
TSY	R	Tnine Sidi el Yamani Morocco	35 22 22.0 N (35.3728)	5 58 12.0 W (5.9700)	...	CNRM
TTH	D	Torodale Trig North Island, New Zealand opened 19870319.	39 32 28.8 S (39.5413)	176 49 34.2 E (176.8262)	120.0	WELH
TU1		Tusconio Lazio, Italy	42 25 07.0 N (42.4186)	11 52 28.0 E (11.8744)	166.0	ROM
TULC	R	Monteloro Colombia	...	...	...	UVC
TUNG		Tungurahua Ecuador opened 198906.	1 25 05.4 S (1.4182)	78 26 43.8 W (78.4455)	2774.0	OUI
TUU	R	Turnu Rosu Romania opened 19880615.	45 39 09.0 N (45.6525)	24 16 23.0 E (24.2731)	519.0	BUC
TVGG	C	Rocky Mountain Net Georgia, U.S.A. closed 1989.	34 22 37.9 N (34.3772)	85 18 08.3 W (85.3023)	323.0	ATL
TWB		Tillmons-Whites Bay South Carolina, U.S.A. opened 19880301.	33 06 54.0 N (33.1150)	80 06 09.0 W (80.1025)	9.0	USGS
TWW		Teanaway Washington, U.S.A. opened 198610.	47 08 17.2 N (47.1381)	120 52 04.5 W (120.8679)	1046.0	SEA
TXNY		Tuxedo New York, U.S.A. opened 1990.	41 10 39.0 N (41.1775)	74 11 19.4 W (74.1887)	143.0	
TZL		Tozlina Central Alaska, Alaska, U.S.A. opened 199007.	62 02 40.2 N (62.0445)	145 25 25.8 W (145.4238)	366.0	GIA
TZR		Tezpur Assam, India	26 38 .. N (26.6333)	92 48 .. E (92.8000)	...	JHI
UJZ	R	 Chiapas, Mexico	15 04 30.0 N (15.0750)	92 05 00.0 W (92.0833)	...	UNM
UKAO	RD	Ukolunda Queensland, Australia opened 19840328. ODM code UKA.	20 53 56.4 S (20.8990)	147 07 37.2 E (147.1270)	200.0	ODM
UMI		 India	25 31 .. N (25.5167)	92 44 .. E (92.7333)	...	JHI
UMT		Umtoto Cape Province, South Africa opened 198808.	31 35 00.0 S (31.5833)	28 45 18.0 E (28.7550)	800.0	PRE
UON	R	Lo Union Guerrero, Mexico	17 58 12.0 N (17.9700)	101 48 54.0 W (101.8150)	...	UNM
UOSK		'Uqlat as Suqur Saudi Arabia opened 19900523.	25 47 20.4 N (25.7890)	42 21 36.0 E (42.3600)	950.0	RYD
URZ	R	Motohi (Uruwera) New Zealand	...	...	...	WEL
USBR	F	U.S. Bureau of Reclamation, Denver				
USH	RD	Wushi Xinjiang, China (Mainland)	41 12 .. N (41.2000)	78 36 .. E (78.6000)	...	
UTMA		University of Tennessee at Martin Tennessee, U.S.A. opened 198511. Station moved from UTM.	36 17 34.8 N (36.2930)	88 58 33.6 W (88.9760)	108.0	
UTSU	R	Utsunomiya Tochigi, Honshu, Japan opened 196202. UTSU code UTU.	36 32 49.3 N (36.5470)	139 55 01.4 E (139.9171)	110.0	UTSU
UVC	F	Universidad del Valle, Cali				
UYO		Union Valley Oklahoma, U.S.A. opened 19890415.	34 10 00.0 N (34.1667)	94 27 31.7 W (94.4588)	231.0	TUL

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UZD		Uzd Hungary opened 1987.	46 35 33.0 N (46.5925)	18 34 54.5 E (18.5818)	207.0	BUD
VACR		Volcan Arenal Costa Rica opened 19860429.	10 28 22.8 N (10.4730)	84 40 39.0 W (84.6775)	360.0	HDC
VASS		Vossouros Rio de Janeiro, Brazil opened 1988.	22 23 58.0 S (22.3994)	43 39 08.0 W (43.6522)	448.0	RDJ
VBY		Vinica-Bojonci Slovenija, Yugoslovia opened 19861030.	45 30 16.2 N (45.5045)	15 15 23.8 E (15.2566)	259.0	LJU
VC1		Cotopaxi 1 Ecuador opened 198809.	0 38 22.2 S (0.6395)	78 24 24.0 W (78.4067)	4064.0	QUI
VCT		Victoria Romania opened 198904.	45 43 30.0 N (45.7250)	24 42 03.6 E (24.7010)	565.0	BUC
VDF	R	Voldeflores Oaxaca, Mexico	16 45 39.6 N (16.7610)	96 49 19.2 W (96.8220)	...	UNM
VEA		Veano Emilia-Romagna, Italy	44 53 21.5 N (44.8893)	9 37 08.4 E (9.6190)	...	GEN
VFP		Flag Point Oregon, U.S.A. opened 198810.	45 19 05.0 N (45.3181)	121 27 54.3 W (121.4651)	1716.0	SEA
VGP		 Mexico	17 21 25.8 N (17.3572)	93 36 50.4 W (93.6140)	...	UNM
VHTN	C	Van Hill Tennessee, U.S.A. 19860114-19860323.	36 23 56.4 N (36.3990)	82 48 07.2 W (82.8020)	658.0	TVA
VIH		Vielho (Viella) Spain opened 1986.	42 37 43.8 N (42.6288)	0 46 12.0 E (0.7700)	1700.0	MRB
VILF		Villemus Provence-Cote d'Azur, France	43 51 09.0 N (43.8525)	5 42 55.1 E (5.7153)	770.0	STR
VIV	R	Vinh Vietnam	18 32 51.0 N (18.5475)	105 42 00.0 E (105.7000)	5.0	PLV
VLI		Velioi Greece opened 198906.	36 43 05.4 N (36.7182)	22 56 13.2 E (22.9370)	220.0	ATH
VLL		Louronce Lake Oregon, U.S.A. opened 198810.	45 27 48.0 N (45.4633)	121 40 45.0 W (121.6792)	1195.0	SEA
VMG	R	Vicchio Toscano, Italy	43 57 42.0 N (43.9617)	11 32 38.0 E (11.5439)	450.0	PRT
VMO	R	Villo Morinero Oaxoco, Mexico	15 51 04.2 N (15.8512)	97 03 49.8 W (97.0638)	3.0	UNM
VNM		Villo de Gorcio Nuevo Leon, Mexico opened 198912.	25 50 36.0 N (25.8433)	100 35 39.0 W (100.5942)	...	UNM
VNV	R	Volcan Villarrico Coutin, Chile	39 22 09.0 S (39.3692)	71 57 10.0 W (71.9528)	...	
VPT	R	Volcan Platanor Costo Rico	...	...	...	HDC
VRAC		Vranov Czechoslovakio opened 198912.	49 18 32.4 N (49.3090)	16 35 42.0 E (16.5950)	...	
VSM		Volcan San Miguel El Salvador	13 25 41.0 N (13.4281)	88 16 27.0 W (88.2742)	2129.0	SSS
VSS		Volcan San Salvador El Salvador	13 44 30.0 N (13.7417)	89 14 30.0 W (89.2417)	1250.0	SSS
VTU		Volcan Turrialba Costa Rica	10 01 15.6 N (10.0210)	83 45 30.0 W (83.7583)	3329.0	HDC
VVI		Villo di Villa Veneto, Italy opened 19870610.	45 58 58.4 N (45.9829)	12 25 25.0 E (12.4236)	515.0	ERC
WA4		Burokin Western Australia, Australia opened 19860422.	30 36 07.2 S (30.6020)	117 13 30.0 E (117.2250)	320.0	AUST
WAH2		Wahluke Slope Washington, U.S.A. SEA code WA2.	46 45 24.2 N (46.7567)	119 33 45.5 W (119.5626)	230.0	SEA
WAHZ		Wokororo North Island, New Zealand	39 41 57.0 S (39.6992)	176 21 19.0 E (176.3553)	657.0	WELH
WAJH		Al Wajh Saudi Arabia opened 19880620.	26 10 30.0 N (26.1750)	36 33 43.2 E (36.5620)	75.0	RYD
WARB		Warburton Western Australia, Australia opened 19870628.	26 11 01.7 S (26.1838)	126 38 34.8 E (126.6430)	460.0	AUST
WATA		Wolderalm Austria opened 198910.	47 20 08.7 N (47.3357)	11 34 34.7 E (11.5763)	1492.0	VIE
WBAO		Buorabo No. 3 Queensland, Australia opened 19840706. QDM code WBA.	27 21 09.7 S (27.3527)	152 18 29.5 E (152.3082)	...	QDM
WCBC	C	Windy Craggy British Columbia, Canada 19880610-19900806.	59 37 40.1 N (59.6278)	137 42 57.6 W (137.7160)	750.0	OTTR

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WCZ	R	Waipu Coves New Zealand	...	...	...	WEL
WEGH		Weija Ghana opened 1987.	5 35 36.0 N (5.5933)	0 19 37.0 W (0.3269)	180.0	KUK
WELH	F	DSIR Hawkes Bay Network, Wellington, NZ				
WEN		Wenatchee Washington, U.S.A.	47 31 46.2 N (47.5295)	120 11 39.0 W (120.1942)	1061.0	SEA
WG2		Wallula Gap Washington, U.S.A. opened 198704.	46 01 50.2 N (46.0306)	118 51 20.0 W (118.8556)	511.0	SEA
WG3		Wallula Gap Washington, U.S.A. opened 199001.	46 01 43.0 N (46.0286)	118 51 24.0 W (118.8567)	480.0	SEA
WGAR		Walnut Grove Arkansas, U.S.A.	35 51 10.8 N (35.8530)	90 11 27.6 W (90.1910)	72.0	SLM
WHH	D	Whakatau North Island, New Zealand opened 19870301.	38 53 04.2 S (38.8845)	176 29 42.0 E (176.4950)	921.0	WELH
WIGH		Winnebo Ghana opened 1987.	5 21 49.0 N (5.3636)	0 37 08.0 W (0.6189)	64.0	KUK
WLZ	D	Whitehall North Island, New Zealand opened 19891217.	37 50 27.9 S (37.8411)	175 35 15.7 E (175.5877)	180.0	WEL
WMBO		Mount Brisbane Queensland, Australia opened 19770318. QDM code WMB.	27 06 55.8 S (27.1155)	152 33 00.7 E (152.5502)	160.0	QDM
WMZ		Williams Arizona, U.S.A. opened 19860131.	35 09 29.0 N (35.1581)	112 19 13.0 W (112.3203)	2018.0	FLAG
WNS		Wenas Washington, U.S.A. opened 198407.	46 42 37.0 N (46.7103)	120 34 30.0 W (120.5750)	1000.0	SEA
WON	RD	Wolverton North England, United Kingdom	51 19 39.0 N (51.3275)	1 12 03.0 W (1.2008)	104.0	BKN
WPMO	R	Pine Mountain Queensland, Australia opened 19770318. QDM code WPM.	27 32 08.5 S (27.5357)	152 44 07.8 E (152.7355)	35.0	QDM
WPO		West Portland Oregon, U.S.A. opened 198610.	45 34 24.0 N (45.5733)	122 47 22 4 W (122.7896)	334.0	SEA
WPW		White Pass Washington, U.S.A. opened 198003.	46 41 53.4 N (46.6982)	121 32 48.0 W (121.5467)	1250.0	SEA
WRCO		Reedy Creek No. 5 Queensland, Australia opened 19840711. QDM code WRC.	27 11 14.6 S (27.1874)	152 39 47.2 E (152.6631)	...	QDM
WSSR		Wesser Bald North Carolina, U.S.A. opened 198511.	35 16 40.2 N (35.2778)	83 34 40.8 W (83.5780)	1390.0	TEIC
WTGO	R	Toogoolowah Queensland, Australia opened 19770318. QDM code WTG.	27 08 44.9 S (27.1458)	152 19 59.9 E (152.3333)	130.0	QDM
WTRO		Thallon Road Queensland, Australia opened 19840523. QDM code WTR.	27 31 43.0 S (27.5286)	152 27 52.2 E (152.4645)	...	QDM
WTTA		Wattenberg Austria opened 19910209.	47 15 49.7 N (47.2638)	11 38 10.7 E (11.6363)	1764.0	VIE
WTV		Waterville Washington, U.S.A. opened 197611. SEA code WAT.	47 41 55.0 N (47.6986)	119 57 15.0 W (119.9542)	900.0	SEA
WTX		Workman Tunnel New Mexico, U.S.A.	34 04 19.8 N (34.0722)	106 56 45.0 W (106.9458)	1555.0	SNM
WVZ	R	Waitaha Valley New Zealand	...	...	...	WEL
WWHQ		Wivenhoe Hill No. 3 Queensland, Australia opened 19840712. QDM code WWH.	27 22 12.7 S (27.3702)	152 35 13.9 E (152.5872)	...	QDM
XLV		Seldavia Kenai Peninsula, Alaska, U.S.A. opened 1987.	59 27 16.8 N (59.4547)	151 43 18.0 W (151.7217)	380.0	GIA
XPKP	F	(phase code designation)				
XPP	F	(phase code designation)				
XSCS	F	(phase code designation)				
XSS	F	(phase code designation)				
YAKW		Yakima Washington, U.S.A. SEA code YAK.	46 31 15.8 N (46.5211)	120 31 45.2 W (120.5292)	619.0	SEA
YANA		Yana Ecuador opened 199008.	0 06 53.3 S (0.1148)	78 34 19.6 W (78.5721)	3730.0	QUI
YEL		Yellow Rock Washington, U.S.A. opened 198109.	46 12 35.0 N (46.2097)	122 11 16.0 W (122.1878)	1750.0	SEA
YERD	R	Yerdanie Rack Western Australia, Australia	31 11 08.6 S (31.1857)	120 37 41.2 E (120.6281)	...	
YHV	R	'En Yahov Israel	...	...	...	JER

STATIONS ADDED SINCE STATION BOOK (OF 85-714) WAS PRINTED

Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
YKB0		Yellowknife Arroy Northwest Territories, Canodo opened 1962.	62 36 21.4 N (62.6059)	114 36 18.1 W (114.6050)	221.6	OTTR
YKB1	R	Yellowknife Arroy Northwest Territories, Canodo opened 1962.	62 24 08.6 N (62.4024)	114 36 19.6 W (114.6054)	172.5	OTTR
YKB2	R	Yellowknife Arroy Northwest Territories, Canodo opened 1962.	62 25 29.2 N (62.4248)	114 36 19.5 W (114.6054)	180.0	OTTR
YKB3	R	Yellowknife Arroy Northwest Territories, Canodo opened 1962.	62 26 55.0 N (62.4486)	114 36 18.7 W (114.6052)	187.6	OTTR
YKB4	R	Yellowknife Arroy Northwest Territories, Canodo opened 1962.	62 28 15.9 N (62.4711)	114 36 17.8 W (114.6049)	192.9	OTTR
YKB5	R	Yellowknife Arroy Northwest Territories, Canodo opened 1962.	62 29 35.6 N (62.4932)	114 36 19.1 W (114.6053)	196.7	OTTR
YKB6	R	Yellowknife Arroy Northwest Territories, Canodo opened 1962.	62 30 59.5 N (62.5165)	114 36 18.0 W (114.6050)	202.6	OTTR
YKB7	R	Yellowknife Arroy Northwest Territories, Canodo opened 1962.	62 32 20.4 N (62.5390)	114 36 19.0 W (114.6053)	204.4	OTTR
YKB8	R	Yellowknife Arroy Northwest Territories, Canodo opened 1962.	62 33 41.6 N (62.5616)	114 36 16.9 W (114.6047)	197.9	OTTR
YKB9	R	Yellowknife Arroy Northwest Territories, Canodo opened 1962.	62 34 58.6 N (62.5829)	114 36 13.9 W (114.6039)	213.1	OTTR
YKR0	U	Yellowknife Arroy Northwest Territories, Canodo 1962-197605.	62 29 35.2 N (62.4931)	114 30 30.8 W (114.5086)	204.9	OTTR
YKR1		Yellowknife Arroy Northwest Territories, Canodo opened 1962.	62 29 33.8 N (62.4927)	114 56 44.1 W (114.9456)	170.0	OTTR
YKR2	R	Yellowknife Arroy Northwest Territories, Conodo opened 1962.	62 29 34.0 N (62.4928)	114 53 47.1 W (114.8964)	175.0	OTTR
YKR3	R	Yellowknife Arroy Northwest Territories, Conodo opened 1962.	62 29 34.7 N (62.4930)	114 50 51.8 W (114.8477)	176.8	OTTR
YKR4	R	Yellowknife Arroy Northwest Territories, Conodo opened 1962.	62 29 33.9 N (62.4927)	114 47 58.2 W (114.7995)	173.4	OTTR
YKR5	R	Yellowknife Arroy Northwest Territories, Conodo opened 1962.	62 29 35.8 N (62.4933)	114 44 59.8 W (114.7499)	182.9	OTTR
YKR6	R	Yellowknife Arroy Northwest Territories, Conodo opened 1962.	62 29 36.0 N (62.4933)	114 42 04.9 W (114.7014)	192.2	OTTR
YKR7	R	Yellowknife Arroy Northwest Territories, Canodo opened 1962.	62 29 36.1 N (62.4934)	114 39 13.2 W (114.6537)	198.9	OTTR
YKR8		(Alternote Abbreviotion for YKB5)				
YKR9	R	Yellowknife Arroy Northwest Territories, Conodo opened 1962.	62 29 35.6 N (62.4932)	114 33 20.7 W (114.5558)	201.1	OTTR
YOO	R	..... Oaxoco, Mexico	17 45 00.0 N (17.7500)	97 49 30.0 W (97.8250)	1600.0	UNM
YPE		Yupe El Solvodor	14 07 18.0 N (14.1217)	89 40 50.0 W (89.6806)	1581.0	SSS
YRH		Rhiw Wales, United Kingdom opened 1984.	52 50 00.6 N (52.8335)	4 37 44.0 W (4.6289)	300.0	BGS
YTIR		Yottir Isroel	31 21 00.0 N (31.3500)	35 07 12.0 E (35.1200)	900.0	JER
YYYY		Yonkie New Guineo, Papuo New Guineo opened 19880602.	6 14 31.2 S (6.2420)	145 57 57.6 E (145.9660)	1200.0	PMG
ZA1		Zofferono Sicilia, Italy	37 41 07.0 N (37.6853)	15 05 24.0 E (15.0900)	875.0	
ZAC	R	Zocoltic Chiopos, Mexico	17 15 00.0 N (17.2500)	92 45 39.6 W (92.7610)	380.0	IIM
ZAPC	R	..... Czechoslovokio	49 49 55.2 N (49.8320)	18 25 40.8 E (18.4280)	...	PRU
ZHGX		Zihuotenejo Guerrero, Mexico Strong-motion stotion.	17 36 30.0 N (17.6083)	101 27 54.0 W (101.4650)	...	LJC
ZLA		Zurich--Logern Switzerland opened 198607.	47 28 55.6 N (47.4821)	8 23 21.3 E (8.3892)	780.0	ZUR
ZOU	D	Zoufplon Friuli-Venezio Giulia, Italy opened 19821017.	46 33 24.0 N (46.5567)	12 58 24.0 E (12.9733)	1896.0	TRI
ZZA	R	..... Chiopos, Mexico	15 08 .. N (15.1333)	92 19 .. W (92.3167)	...	UNM

Listing generoted 14 JUL 1991.