UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

EARTHQUAKE DATA REPORT

MAY 1993

by

U.S. Geological Survey

NATIONAL EARTHQUAKE INFORMATION CENTER[1]

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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.

MAY 01, 1993 00h 22m 21.12± 0.37s
35.294 N ± 3.6km 6.216 W ± 5.6km
DEPTH = 61.4 ± 5.2 km
4.2mb (4 obs.)
STRAIT OF GIBRALTAR (385)
MD 4.0 (RBA).

TSY	0.22	69	iP	22	30.50	-0.4
			iS	22	36.70	
RSA	0.52	142	iP	22	33.00	-0.4
			iS	22	37.00	
NKM	0 68	77	iPgc	22	37.00	1.7
			iSg	22	45.50	
CPS	0.72	46	iP	22	35.50	-0.2
			iS	22	45.50	
PLAT	0 90	24	iP	22	39.00	0.9
OJEN	0 98	34	iP	22	40.50	1.4
CNIL	1 08	7	iP	22	41.00	0.6
SFS	1 16	0	iP	22	42.50	1.0
EJIF	1.30	27	iPnc	22	45.53	2.1
			eSn	23	00.30	
RBA	1 38	202	iPgd	22	45.00	0.5
			iSg	23	00.00	
			i	23	04.50	
RTC	1.42	201	iP	22	45.00	0 0
			iS	24	00.00	
ALJ	1.46	20	iP	22	44.50	-1.3
LIJA	1.73	22	iP	22	49.00	-0.4
EPRU	1.85	25	iPnc	22	52.53	1.5
			eSn	23	13.70	
IFR	1.99	153	iPg	22	52.50	-0.6
			iSg	23	12.00	
			i	23	24.00	
MAL	2.05	45	iPnd	22	54.20	0.5
			iSg	23	14.00	
AVE	2.22	207	iPn	22	56.50	0.2
			iSn	23	21.00	
			i	23	23.50	
EVAL	2.33	350	iPnc	22	57.92	0.3
			eSn	23	23.50	
EHOR	2.64	17	iPnc	23	02.44	0.4
			eSn	23	31.60	
ELUQ	2.75	34	iPnc	23	04.65	0.9
			eSn	23	36.10	
ECOG	2.91	46	iPnd	23	07.56	1.4
			eSn	23	41.00	
ENIJ	3.65	62	ePn	23	16.68	0.3
EHUE	3.85	48	ePn	23	19.77	0.5
			eSn	24	01.60	
LIS	4.14	326	eP	23	24.20	0.9
			eS	24	09.00	
TIO	4.44	192	iPn	23	26.50	-1.1
			iSn	24	12.90	
JHA	4.46	218	iP	23	27.50	-0.1
			iS	26	14.50	
EVIA	4.47	41	iPnc	23	27.69	-0.3
			eSn	24	15.70	
EALH	4 63	55	ePn	23	30.05	-0.1
			eSn	24	20.80	
EPLA	4.76	1	iPnc	23	31.92	-0.1
			eSn	24	21.90	
GUD	5.58	16	iPnc	23	42.99	-0.6
			eSn	24	41.80	
ECHE	5.98	43	iPnc	23	47.88	-1.3
			eSn	24	51.30	
ETOR	6.42	30	iPnc	23	54.37	-0.9
			eSn	25	01.20	
ERUA	7.12	354	ePn	24	03.78	-1.2
			eSn	25	16.80	
EROQ	7.60	41	ePn	24	09.95	-1.6
			eSn	25	29.90	
EBR	7.64	42	eP	24	11.00	-1.2
EMON	8.18	354	ePn	24	15.30	-4.2X
			eSn	25	40.20	
EGRA	8.29	32	ePn	24	22.67	1.7
EPF	9.25	31	Pn	24	33.10	-1.2
			Sn	26	09.50	
GRBF	9.65	36	P	24	38.46	-1.3
LSPF	9.91	37	P	24	42.52	-0.7
LPO	10.96	29	Pn	24	56.80	-0.7
			Sn	26	49.90	
LFF	11.00	27	Pn	24	56.70	-1.4
			Sn	26	48.50	
CAF	11.51	31	Pn	25	02.90	-2.1
			Sn	27	02.90	
RJF	11.60	28	Pn	25	05.20	-1.0
			Sn	27	04.60	
MFF	12.19	20	Pn	25	12.70	-1.2
			Sn	27	17.20	
LSF	12.41	26	Pn	25	15.00	-1.9
			Sn	27	21.90	
TCF	12.69	28	Pn	25	20.10	-0.5
MAF	12.77	29	Pn	25	20.60	-1.1
			Sn	27	32.90	
BGF	13.16	29	Pn	25	25.60	-1.2
			Sn	27	40.70	
LPF	13.30	15	Pn	25	27.50	-1.0
			Sn	27	42.60	
AVF	13.55	29	Pn	25	31.30	-0.6
SMF	13.63	31	Pn	25	31.70	-1.3
GRR	13.67	15	Pn	25	32.70	-0.8
			Sn	27	51.70	
HYF	13.68	26	Pn	25	33.90	0.4
SSF	13.83	29	Pn	25	34.50	-1.1
PGF	13.87	54	Pn	25	39.20	3.0X
LDF	14.03	17	Pn	25	37.50	-0.7
			Sn	27	58.50	
FLN	14.11	16	Pn	25	38.10	-1.1
			Sn	28	01.00	
LPL	14.18	40	Pn	25	43.80	3.5X
PGD	16.24	53	P	26	11.30	4.5X
CRE	16.29	54	P	26	11.60	4.3X
CDF	16.48	33	Pn	26	11.30	1.6
RSM	16.74	53	P	26	19.00	6.1X
DOU	16.76	25	Pc	26	14.40	1.3
ARV	16.90	55	P	26	19.00	4.2X
WLF	16.98	28	P	26	18.00	2.3
SNF	17.02	23	Pc	26	18.80	2.6
CTI	17.25	46	P	26	22.40	3.1X
UCC	17.29	23	P	26	21.00	1.4
FVI	18.21	46	P	26	32.10	1.2
ORI	18.55	68	P	26	39.20	4.1X
VOY	18.60	49	e(P)	26	36.00	0.2
RBL	18.60	47	P	26	35.50	-0.3
KBA	18.79	45	e(P)	26	38.00	-0.3
CEY	18.79	50	e(P)	26	38.50	0.4
LJU	19.00	49	e(P)	26	41.00	0.5
VBY	19.22	51	iPd	26	43.00	0.1
GRF	19.23	36	eP	26	43.70	0.7
	Z 26s		0.10um			
PTJ	19.83	51	eP	26	46.60	-2.9X
GEC2	19.97	41	P	26	49.90	-1.0
	0.3s		0.31nm			3.1mb X
KHC	20.07	40	iPd	26	52.50	0.6
	1.0s		14.00nm			4.2mb
			e	27	04.00	
EKA	20.15	5	Pd	26	54.40	1.8
	1.1s		12.10nm			4.1mb
PRU	21.08	39	eP	27	02.00	-0.2
VKA	21.13	45	e(P)	27	02.00	-0.6
CLL	21.16	35	iP	27	04.20	1.3
	1.2s		19.00nm			4.3mb
BRG	21.32	37	e(P)	27	05.60	1.0
ZST	21.55	46	iP	27	06.00	-0.9
OHR	21.96	67	eP	27	12.00	0.9
SRO	22.10	48	eP	27	12.20	-0.2
HFS	28.01	21	eP	28	08.40	0.5
	0.6s		2.00nm			3.9mb
	Z 17s		0.07um			3.3MszX
			LR	37	42.00	

S.D. = 1.1 on 80 of 90 obs.

% MAY 01, 1993 00h 58m 22.79± 0.82s
38.843 N ± 6.1km 27 236 E ±11.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 3 0 (ISK).

IZM	0 44	177	iPg	58	31.90	0.0
			iSg	58	36.90	
EZN	1.21	325	iPn	58	45.20	-0.1
EDC	1 58	18	ePn	58	51.00	0.1
BNT	1.60	19	ePn	58	51.00	-0.2
KCT	1.65	31	ePn	58	52.60	0.7
YLV	2.38	43	ePn	59	02.00	-0.6

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

? MAY 01, 1993 00h 59m 37.27± 0.97s
43.916 N ± 7.2km 7 891 E ± 7.9km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)

IMI	0.01	190	P	59	39.19	0.0
			S	59	43.21	
FIN	0.37	38	P	59	44.91	0.0
			S	59	53.10	
ENR	0.46	313	P	59	46.69	0.0
			S	59	55.75	
STV	0.52	309	P	59	47.79	-0.1
			S	59	57.81	
PZZ	0.82	316	P	59	53.28	0.1
			S	00	06.92	

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

MAY 01, 1993 01h 43m 26.97± 0.20s
15.721 S ± 4.0km 69.357 W ± 5.7km
DEPTH = 260.1km (18 depth phases)
4.8mb (50 obs.)
PERU-BOLIVIA BORDER REGION (118)
Mw 5.4 (HRV).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 31S, 43C
Centroid Location:
Origin Time 01:43:33.8 0.3
Lat 15.64S 0.04 Lon 69.37W 0.05
Dep 264.7 1.8 Half-duration 1.3
Moment Tensor; Scale 10**17 Nm
Mrr=-0.14 0.04 Mtt=-0.06 0.05
Mff= 0.20 0.07 Mrt= 1.38 0.04
Mrf= 0.22 0.06 Mtf= 0.48 0.05
Principal Axes:
T Val= 1.47 Plg=39 Azm=332
N 0.02 19 79
P -1.50 45 189
Best Double Couple:Mo=1.5*10**17
NP1:Strike=357 Dip=19 Slip=-172
NP2: 260 87 -71

ZOBO	1.31	115	iPc	44	06.00	0.1
			i	58	12.90	
LPB	1.45	124	iPc	44	06.90	0.2
CNCB	1.71	130	iPc	44	09.50	0.7
ARE	2.18	250	iPc	44	08.50	-4.1X
			iS	44	40.00	
SIV	7.98	93	P	45	35.20	14.4X
ANT	8.01	187	eP	45	16.50	-4.5X
NNA	8.16	296	iPc	45	20.00	-3.1X
	0.9s		79.83nm			4.7mb
			eS	46	48.00	
SLA	9.67	159	ePc	45	39.50	-2.8X
			(S)	47	25.50	
FSA	10.77	164	eP	45	54.10	-1.9
			(S)	46	02.50	
RTPR	14.75	170	ePd	46	43.20	-1.8
RTLL	15.56	177	iPc	46	53.50	-1.4
RTCB	15.70	178	iPd	46	55.60	-1.1
ZON	15.77	178	eP	46	56.40	-1.0
CFA	15.85	177	ePc	46	56.70	-1.6
RTBS	15.87	180	ePd	46	57.90	-0.6
MDZ	17.09	179	iP	47	09.40	-2.3
			i	47	31.30	
PEL	17.39	184	iPd	47	13.20	-1.6
PPD	18.19	113	eP	47	23.70	0.5
PSO	18.56	334	eP	47	27.50	0.1
RFA	18.99	178	iPd	47	30.90	-0.4
BAO	20.57	93	eP	47	48.90	1.7
			i	47	50.10	5kmX
			e	48	03.80	
			i	53	49.40	
BOG	20.74	347	eP	47	50.00	0.8
			eS	52	36.00	
RIFB	21.24	105	eP	47	56.00	2.3
			e	48	05.50	36kmX
			e	49	11.10	
			eS	51	33.10	
FUO	21.50	348	iP	47	57.00	0.5
CACB	22.22	109	ePd	48	05.00	1.7
			e	48	06.20	4kmX
			eS	51	57.60	
VAO	22.31	112	eP	48	06.40	2.3
			e	48	17.80	45kmX
			e	51	51.60	
BMG	22.94	350	iPc	48	08.00	-2.2
SDV	24.48	357	iPc	48	23.40	-1.2
TOV	25.35	359	ePc	48	31.60	-0.8
			ePP	48	32.20	
OLLA	25.70	6	iP	48	36.00	0.4
CAR	26.17	5	iPd	48	40.00	0.1
SVV	29.95	16	eP	49	14.00	0.6

01d 01h

MVM	31.22	16	eP	49	23.90	-0.6				epP	55	04.76	257km	TCF	89.02	41	eP	55	53.20	-0.4
FDF	31.33	15	eP	49	24.20	-1.2	BW06	68.94	329	iPc	54	05	27 -0.9		0.4s		1.80nm			4.4mb
MGP	33.59	4	P	49	44.20	-0.6		1.0s		33.06nm			5.0mb	MAF	89.22	41	eP	55	54.20	-0.3
PORP	33.67	5	P	49	45.90	0.4	ISA	69.08	319	eP	54	07.70	0.7		0.6s		3.00nm			4.4mb
CPD	33.72	6	P	49	44.80	-1.1		1.3s		96.68nm			5.4mb	BGF	89.53	41	eP	55	55.60	-0.3
LPR	33.99	6	P	49	46.80	-1.5	JAQ	69.45	356	eP	54	06.00	-2.7		0.5s		4.25nm			4.6mb
IISM	44.16	320	(P)	51	13.50	1.6	ULM	69.71	342	ePc	54	11.20	0.8	EKA	89.94	32	P	55	58.00	0.5
PPM	45.00	319	iP	51	21.00	1.8	BCH	69.82	318	eP	54	12.23	0.7		1.0s		5.00nm			4.4mb
III	45.03	318	(P)	51	20.50	1.4	TNP	69.85	321	ePc	54	12.28	0.5	AVF	89.94	41	eP	55	57.30	-0.5
SGS	49.79	348	eP	51	53.69	-1.7		0.8s		41.92nm			5.2mb		0.7s		3.00nm			4.3mb
			epP	52	50.37	264km	HVU	69.85	327	ePc	54	11.22	-0.4	MAW	89.96	164	P	56	00.59	3.0X
GOGA	50.68	345	eP	51	59.56	-2.6				epP	55	11.39	259km	SSF	90.14	41	eP	55	58.00	-0.7
	0.8s		11.64nm			4.4mb	BONR	70.42	321	eP	54	16.14	0.8	SMF	90.19	41	eP	55	58.80	-0.2
			epP	52	55.85	260km	PHAM	70.42	318	eP	54	16.52	1.5		0.9s		10.00nm			4.7mb
			ePcP	53	15.92		MEMM	70.63	320	eP	54	17.64	1.5	LOR	90.45	41	eP	55	59.40	-0.7
JSC	50.99	347	eP	52	03.38	-1.2	KVN	71.00	322	eP	54	18.80	0.2		0.4s		1.90nm			4.4mb
			ePcP	53	16.76		CMB	71.75	320	eP	54	22.77	-0.2	LMR	90.72	45	eP	56	01.80	0.4
PRM	51.05	346	eP	52	02.97	-2.0		1.2s		22.84nm			4.8mb		0.8s		6.30nm			4.6mb
			epP	52	58.38	255km	ARN	72.06	319	eP	54	25.83	1.1	LPL	91.64	43	eP	56	06.70	0.7
			ePcP	53	17.24		LCCM	72.32	330	eP	54	26.20	0.0		0.5s		3.00nm			4.5mb
LHS	51.10	348	eP	52	03.60	-1.7	NVL	72.37	160	iPd	54	27.00	1.1	LPG	91.65	43	eP	56	06.90	0.8
			PcP	53	17.53			1.4s		83.00nm			5.3mb		0.6s		3.50nm			4.5mb
TKL	52.89	345	eP	52	16.33	-2.2				e	55	28.00	262km	DOU	91.98	38	P	56	07.80	0.7
GBTN	53.01	345	eP	52	16.96	-2.4	ORV	73.37	320	ePc	54	33.30	1.1	INK	95.39	340	eP	56	24.50	2.1
NAV	53.84	349	eP	52	23.45	-2.1				epP	55	35.11	265km		1.0s		4.00nm			4.6mb
			epP	53	21.26	264km	SPA	74.38	180	iPc	54	38.80	0.9	MBC	96.50	349	eP	56	29.50	2.2
CVL	54.10	351	eP	52	25.56	-1.7		0.9s		31.82nm			5.0mb		0.8s		1.00nm			4.1mb
			ePcP	53	29.26		WDC	74.63	321	ePc	54	38.38	-1.0	GEC2	97.20	41	P	56	31.30	0.2
MIAR	55.04	336	ePc	52	31.71	-2.4		0.6s		37.25nm			5.3mb		0.9s		1.00nm			4.1mb
	0.7s		22.30nm			4.8mb	LGPM	75.00	321	eP	54	42.16	0.4	KLU	97.41	332	eP	56	31.62	-0.1
			epP	53	29.30	262km				epP	55	43.01	260km	WB2	137.58	214	ePKP	02	23.50	1.1
OLY	55.09	338	(P)	52	31.36	-3.1X	KMPM	75.50	320	eP	54	45.81	1.3				eSKP	05	32.70	
LTX	55.71	323	iPc	52	36.72	-2.4	LNOR	75.55	327	P	54	44.56	-0.1	WRA	137.59	214	PKP	02	24.50	2.1
FVM	56.97	340	iPc	52	45.13	-2.6	JBO	76.11	326	P	54	49.09	1.4		0.8s		3.80nm			
	0.7s		106.48nm			5.5mb	CROR	76.43	325	P	54	51.22	1.7	MTN	145.12	217	iPKPd	02	36.10	0.3
			ipP	53	42.58	259km	DBO	76.57	323	P	54	51.76	1.4	GBA	147.82	89	PKP	02	42.00	1.9
			esP	54	11.90		NEW	76.57	329	eP	54	49.93	-0.2	MAT	147.91	315	ePKP	02	44.00	4.3X
FNO	57.25	333	iPc	52	48.00	-1.7		0.9s		16.06nm			4.8mb	HYB	149.21	82	ePKP	02	43.80	1.5
MEO	57.39	332	iPd	52	48.50	-2.2	VGB	76.66	326	ePc	54	52.00	1.3	GKN	153.01	59	PKP	02	56.60	8.8X
ACO	59.23	332	iPc	53	01.50	-1.9	DPW	76.84	329	iPc	54	52.33	0.6	DMN	153.54	59	PKP	02	58.40	9.7X
RSNY	60.16	356	eP	53	07.86	-1.6	FCC	76.93	347	eP	54	54.00	2.2	KKN	153.62	59	PKP	02	57.00	8.3X
	0.8s		9.68nm			4.5mb	SSOR	77.17	324	P	54	54.00	0.3	PKI	153.81	59	PKP	02	55.80	6.6X
			epP	54	06.40	260km	RNO	77.33	323	P	54	56.79	2.3	GUN	154.07	58	PKP	02	57.20	7.7X
LMN	61.42	4	eP	53	19.00	1.1	SAW	77.34	328	P	54	55.22	0.8		S.D. = 1.2		on 157 of 170 obs.			
ALQ	61.48	326	iPc	53	17.97	-0.8	EBG	77.43	327	P	54	56.74	1.8	----------						
	0.6s		47.49nm			5.3mb	ASR	77.50	326	P	54	56.56	1.1	? MAY 01, 1993 01h 50m 38.75± 6.59s						
TUC	62.08	321	eP	53	21.96	-0.6	WTV	77.62	328	P	54	56.84	0.9	51.130 N ±30.1km 15.839 E ±46.7km						
	1.4s		77.83nm			5.2mb	SHW	77.87	325	eP	54	59.31	1.8	DEPTH = 10.0km (geophysicist)						
CBM	62.37	1	eP	53	23.20	-0.9	LON	77.99	326	eP	54	58.28	0.2	POLAND						(548)
	0.5s		13.57nm			4.9mb	KMOR	78.23	324	P	55	01.13	1.8							
			epP	54	22.37	261km	BMW	78.59	325	iPc	55	02.39	1.1	BRG	1.22	259	iPg	51	01.80	0.3
KDS	63.13	67	eP	53	29.80	0.1	JCW	78.96	327	P	55	03.31	0.1				iSg	51	20.60	
GLD	64.52	330	eP	53	38.08	-0.4	GMW	79.01	326	iPc	55	04.13	0.7	PRU	1.41	216	ePn	51	04.50	0.0
	1.1s		55.33nm			5.2mb	FRB	79.22	0	eP	55	03.00	-1.1				ePg	51	06.00	
GOL	64.55	330	iPd	53	38.24	-0.5		1.0s		7.00nm			4.4mb				i	51	10.30	
	0.9s		81.85nm			5.5mb				pP	56	08.50	278kmX				e	51	23.10	
PV08	65.35	327	ePc	53	43.81	-0.2	MCW	79.73	327	iPc	55	08.38	1.1				eSg	51	30.30	
PV10	65.41	327	ePc	53	43.36	-1.0	STW	79.85	326	P	55	09.79	1.9	CLL	1.79	277	ePg	51	10.00	0.1
PV09	65.55	327	eP	53	44.48	-0.8	PGC	80.04	327	ePc	55	10.00	1.2				eSg	51	35.00	
PLM	66.60	318	eP	53	52.61	0.8		0.5s		23.00nm			5.2mb	KHC	2.47	217	Pn	51	20.00	0.2
SRU	66.74	326	iPc	53	52.30	-0.3	YKA	85.62	341	eP	55	36.70	-0.3				e	51	26.00	
			epP	54	51.33	256km		0.7s		12.20nm			4.8mb				e	51	52.50	
PEC	67.13	318	eP	53	55.12	0.1	EPF	86.45	44	eP	55	42.20	0.7				eSg	52	05.00	
	0.9s		24.21nm			4.9mb		0.5s		2.50nm			4.3mb				e	52	09.00	
MSU	67.22	325	iPc	53	56.04	0.4	ECB	86.60	33	eP	55	41.40	-0.5	MOX	2.72	261	ePg	51	29.20	5.9X
			ePcP	54	23.86		ECP	86.72	33	eP	55	42.00	-0.4				iSg	52	09.20	
			epP	54	55.31	257km	ETA	87.07	33	eP	55	41.90	-2.2	GRF	3.29	246	e(Pn)	51	30.60	-0.7
			esP	55	21.04		LFF	87.52	42	eP	55	46.60	0.1				ePg	51	43.70	
LIC	67.31	76	P	53	56.02	-0.4		0.8s		8.60nm			4.7mb				eSg	52	28.00	
Z	20s		0.06um			3.8Msz	MFF	87.67	40	eP	55	47.10	-0.1		S.D. = 0.6		on 5 of 6 obs.			
EMUT	67.41	326	eP	53	56.73	-0.1		0.8s		7.80nm			4.6mb	----------						
			epP	54	55.84	256km	LPO	87.70	42	eP	55	47.50	0.1	& MAY 01, 1993 02h 01m 08.18s						
ARUT	67.43	323	eP	53	58.00	1.1		0.8s		6.05nm			4.5mb	60.100 N 150.941 W						
RSSD	67.44	334	ePd	53	56.42	-0.5	LPF	87.75	39	eP	55	47.10	-0.4	DEPTH = 45.1km						
	0.4s		21.80nm			5.2mb		0.6s		10.00nm			4.8mb	KENAI PENINSULA, ALASKA						(14)
TIC	67.46	76	P	53	57.50	0.2	GRR	88.02	38	eP	55	48.40	-0.4	<AEIC>. ML 2.8 (AEIC).						
KIC	67.62	76	P	53	58.00	-0.3		0.7s		16.75nm			5.0mb							
	0.3s		9.00nm			5.0mb	RJF	88.17	42	eP	55	49.50	-0.1	BRLK	0.34	175	ePd	01	16.84	-0.5
SSK	67.67	318	eP	53	59.27	0.7		0.7s		4.30nm			4.4mb				eS	01	23.58	
			(pP)	54	59.30	260km	CAF	88.37	42	eP	55	50.70	0.1	SLKM	0.54	41	iPd	01	19.16	-0.6
GSC	67.80	319	ePc	53	59.72	0.6		0.7s		4.50nm			4.5mb				eS	01	28.04	
			epP	55	01.20	267km	FLN	88.41	38	eP	55	50.30	-0.3	CNPM	0.60	195	iPd	01	19.77	-0.7
DAU	68.07	327	ePc	54	01.30	0.3		0.8s		11.95nm			4.8mb				eS	01	28.92	
TPNV	68.53	321	eP	54	04.52	0.9	LDF	88.55	38	eP	55	50.80	-0.5	NKA	0.66	347	ePc	01	22.45	1.2
	0.6s		30.97nm			5.2mb		0.8s		10.90nm			4.8mb	SEW	0.75	89	ePc	01	21.51	-0.9
DUG	68.75	326	iPd	54	05.19	0.2	LSF	88.57	41	eP	55	51.20	-0.3				eS	01	32.36	
	1.3s		105.21nm			5.4mb		0.9s		7.35nm			4.6mb	XLV	0.76	212	eP	01	21.78	-0.9

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MPA      0.88  63 ePd   01 23.90   -0.4
RSO      0.97 293 iPc   01 25.01   -0.8
                  eS    01 38.14
RS1      0.97 293 iPc   01 25.05   -0.8
RS2      0.98 293 iPc   01 25.05   -0.8
DFR      1.00 300 iPc   01 25.12   -0.9
                  eS    01 38.66
RDN      1.00 295 ePc   01 25.04   -1.0
                  eS    01 38.61
RDW      1.01 293 iPc   01 25.37   -0.9
INE      1.06 269 iPc   01 26.01   -1.0
                  eS    01 40.07
NCT      1.09 296 iPc   01 26.46   -0.9
                  eS    01 41.09
INW      1.10 269 ePc   01 26.55   -0.9
                  eS    01 41.10
SPU      1.22 334 iPc   01 28.42   -0.7
                  eS    01 44.04
PTE      1.22  50 eP    01 28.48   -0.6
CKT      1.27 331 eP    01 29.10   -0.8
                  eS    01 45.83
CKN      1.28 332 eP    01 29.69   -0.3
CKL      1.30 329 iPc   01 29.65   -0.6
CPAM     1.30 334 eP    01 29.85   -0.5
CRP      1.31 333 eP    01 29.56   -1.0
CP2      1.33 332 eP    01 29.24   -1.6
                  eS    01 47.58
PMS      1.33  30 P     01 30.50   -0.2
BGL      1.37 329 ePc   01 30.86   -0.4
SUA      1.37   4 eP    01 30.75   -0.6
AUE      1.44 240 eP    01 32.24    0.1
AUL      1.45 241 eP    01 32.49    0.1
AUH      1.47 241 eP    01 32.63    0.0
AUI      1.48 240 ePd   01 32.73    0.0
                  eS    01 51.73
PWA      1.64  18 P     01 34.90   -0.1
PDB      1.67 261 eP    01 34.90   -0.5
                  eS    01 55.46
SYI      1.67 207 eP    01 34.54   -0.9
PLRM     1.74  30 eP    01 35.78   -0.6
PMR      1.74  30 eP    01 35.15   -1.3
                  eS    02 00.55
CDD      1.81 231 ePd   01 37.55    0.1
                  eS    02 00.98
SKT      1.91 352 ePd   01 38.65   -0.2
                  eS    02 03.38
GHO      1.95  30 ePd   01 38.63   -0.8
MCNL     1.95 243 iPd   01 39.60    0.1
                  eS    02 03.16
SML      2.13  35 eP    01 41.04   -1.0
HIN      2.23  80 eP    01 40.97   -2.5
SCM      2.48  44 eP    01 46.22   -0.8
KDC      2.49 199 eP    01 44.63   -2.5
VLZ      2.50  64 ePc   01 45.41   -1.8
SVW      2.52 296 eP    01 45.38   -2.2
KLU      2.83  58 iPd   01 50.26   -1.8
TZL      3.32  52 eP    01 57.85   -1.0
TRF      3.38   5 eP    02 01.31    1.4
SDG      3.56  45 P     02 02.50    0.1
TTA      3.74 322 P     02 03.70   -1.2
GLB      3.75  66 ePc   02 02.28   -2.7
FBA      5.03  15 eP    02 20.94   -2.1
        53 obs. associated
-------------------------------------
*  MAY  01, 1993  02h 02m 23.95± 1.21s
   50.918 N ±23.7km  173.041 W ±10.4km
   DEPTH =  33.0km  (normal)
   4.4mb ( 16 obs.)
 ANDREANOF ISLANDS, ALEUTIAN IS.  (  7)

ADK      2.48 294 iPc   03 01.58   -1.3
                  eS    03 31.85
IMA     18.12  26 (P)   06 32.61   -1.8
        0.7s     1.04nm          3.1mb X
INK     25.82  33 eP    07 53.50    0.2
MBC     32.71  21 eP    08 54.50   -0.4
YKA     32.91  47 eP    08 58.40    1.6
        0.4s    0.30nm          3.5mb
BW06    42.95  75 eP    10 18.50   -3.0
        0.9s     2.12nm          3.9mb
FRB     51.47  33 eP    11 27.00   -0.6
NB2     68.34 358 P     13 22.80   -0.7
        0.8s     1.90nm          4.2mb
HFS     69.17 356 eP    13 27.20   -1.4
        0.5s     3.80nm          4.7mb
GUN     75.36 296 P     14 05.60   -0.6
GKN     75.99 297 P     14 08.60   -0.9

CLL     78.02 356 e(P)  14 20.00   -0.2
BRG     78.41 355 e(P)  14 22.20   -0.2
MOX     78.74 357 e(P)  14 24.40    0.2
GRF     79.70 357 eP    14 31.00    1.6
KHC     80.17 356 eP    14 33.00    1.0
GEC2    80.45 355 PKP   14 33.90    0.4
        0.8s     1.22nm          4.0mb
                  e     14 44.90
LDF     80.68   5 iPc   14 34.70    0.1
        0.5s     2.85nm          4.5mb
GRR     80.85   5 eP    14 35.90    0.4
        0.6s     3.50nm          4.5mb
CDF     81.05 360 eP    14 37.20    0.5
        0.6s     2.00nm          4.3mb
LPF     81.19   5 eP    14 37.90    0.6
        0.5s     2.25nm          4.4mb
BSF     81.63   0 eP    14 40.10    0.4
        0.6s     1.80nm          4.3mb
LOR     82.16   2 iPc   14 43.00    0.6
        0.7s     2.55nm          4.4mb
SSF     82.36   2 iPc   14 44.00    0.6
        0.7s     3.40nm          4.5mb
LBF     82.45   2 eP    14 44.30    0.4
        0.6s     1.80nm          4.3mb
BGF     82.84   3 eP    14 46.60    0.7
        0.7s     3.40nm          4.5mb
LSF     83.10   4 eP    14 47.80    0.5
        0.6s     2.45nm          4.5mb
MAF     83.17   3 eP    14 48.90    1.3
        0.6s     1.80nm          4.4mb
      S.D. =  1.1  on  28 of  28 obs.
-------------------------------------
?  MAY  01, 1993  02h 22m 56.93± 3.74s
    39.401 N ±35.6km   23.655 E ± 9.1km
    DEPTH =  10.0km  (geophysicist)
  AEGEAN SEA                      (365)
       ML 2.7 (THE).

LIT      1.14 308 ePg   23 17.70   -0.6
                  eSg   23 35.50
SRS      1.72 358 ePb   23 26.60   -0.4
                  eSb   23 50.00
GRG      1.83 329 ePb   23 29.04    0.4
                  eSb   23 53.70
KNT      1.85 342 ePb   23 29.36    0.4
                  eSb   23 54.08
EZN      2.11  78 ePn   23 27.70   -4.9X
ALN      2.36  50 iPn   23 36.32    0.0
                  eSn   24 07.00
OHR      2.77 309 ePn   23 42.50    0.2
      S.D. =  0.5  on   6 of   7 obs.
-------------------------------------
    MAY  01, 1993  02h 48m 55.89± 0.52s
    26.414 N ± 2.8km  127.269 E ± 2.8km
    DEPTH =  55.0 ±  4.7 km
    5.4mb ( 94 obs.)
  RYUKYU ISLANDS                  (238)
       Mw 5.5 (HRV). Felt (III) at
       Kadena, Okinawa.
       CENTROID, MOMENT TENSOR    (HRV)
       Data Used: GDSN
       L.P.B.: 28S, 44C
       Centroid Location:
       Origin Time       02:48:58.8 0.4
       Lat 25.86N 0.04 Lon 126.63E 0.04
       Dep  63.7 2.1 Half-duration  1.3
       Moment Tensor;   Scale 10**17 Nm
         Mrr= 0.81 0.04  Mtt=-0.16 0.08
         Mff=-0.66 0.08  Mrt=-0.22 0.05
         Mrf= 0.91 0.05  Mtf=-1.49 0.06
        Principal Axes:
         T  Val=  1.76  Plg=41  Azm=228
         N        0.27       47       24
         P       -2.04       12      127
       Best Double Couple:Mo=1.9*10**17
        NP1:Strike=259 Dip=53 Slip= 157
        NP2:          4      72       40

NAH      0.42 118 iP    49 05.30   -1.4
                  iS    49 11.20
KAGJ     5.72  33 P     50 19.60   -0.7
                  S     51 27.00
KUMJ     6.84  26 iP+   50 36.20    0.2
SSE      7.09 313 Pnc   50 40.00    0.6
        0.5s   103.00nm          5.8mb
      Z  20s     9.60um
      N  10s     4.10um
      E  10s     3.80um
                  pP    50 43.50
                  i     51 09.80
                  S     52 05.00
                  sS    52 12.00
BBP      7.69 220 ePc   50 42.80   -4.9X
SHNJ     8.37  22 eP    50 58.50    1.4
TKSJ     9.55  36 eP    51 09.30   -4.1X
                  eS    52 50.20
CVP     10.03 211 ePc   51 14.30   -5.7X
YONJ    10.24  30 eP    51 19.10   -3.7X
                  eS    53 09.30
WKYJ    10.59  41 eP    51 24.80   -2.9X
                  eS    53 15.80
BAG     11.74 213 eP+   51 40.00   -3.3X
TSRJ    11.77  37 P     51 43.70    0.3
HKC     12.62 254 eP    51 56.00    1.2
                  eS    54 44.00
MTMJ    13.54  39 P     52 15.30    8.3X
TGY     13.61 207 eP    52 09.00    1.0
MAT     13.74  40 eP    52 18.00    8.5X
        1.0s    43.00nm          5.1mb
      Z  20s     2.48um
                  eS    54 54.00
CHJJ    13.88  43 P     52 20.20    8.9X
NIIJ    14.68  40 P     52 26.90    5.1X
KAKJ    14.71  45 P     52 25.80    3.6X
PLP     15.32 189 ePd   52 31.20    1.0
YAMJ    15.92  39 eP    52 41.90    4.2X
BJI     16.44 329 eP    52 46.50    2.3
        1.2s    82.00nm          4.7mb
      Z  18s     2.65um
      N  14s     1.96um
                  ePP   53 00.00
                  eS    55 54.00
OFUJ    17.47  40 eP    52 55.10   -2.0
DAV     19.29 185 eP    53 26.60    7.4X
CTB     19.33 189 ePd   53 22.00    2.4
GUMO    20.85 124 eP    53 34.30   -1.2
        1.3s   310.60nm          5.5mb
                  eS    57 26.40
PJG     20.85 124 eP    53 34.80   -0.7
GUA     20.92 124 eP    53 35.20   -1.0
        0.8s   197.01nm          5.5mb
ASAJ    21.61  31 eP    53 44.30    1.4
KUSJ    21.89  36 eP    53 44.90   -0.8
KMI     22.12 272 Pd+   53 49.00    0.6
        1.0s    70.00nm          5.0mb
      Z  16s     5.00um          5.0MszX
      N  10s     0.90um
      E  13s     2.50um
                  pP    54 02.00   54kmX
                  sP    54 06.00
                  eS    57 46.00
LZH     22.18 301 Pc    53 48.50   -0.4
        1.5s   153.00nm          5.2mb
      Z  20s     4.31um          4.9Msz
      E  13s     1.68um
                  pP    54 05.00   74kmX
                  sP    54 13.50
                  PP    56 24.00
                  eS    57 48.00
                  sS    58 18.00
                  ScS   04 52.00
TSM     23.76 204 ePd   54 05.90    1.6
LOE     25.29 254 iPc   54 19.00    0.1
PCT     26.82 249 eP    54 35.20    2.2
CHG     27.18 260 iPc   54 36.70    0.4
        1.0s   120.00nm          5.5mb
NST     27.43 252 eP    54 38.00   -0.5
BDT     27.73 257 eP    54 35.80   -5.4X
        0.7s    73.10nm          5.4mb
KHT     29.16 252 eP    54 55.00    0.8
NNT     29.29 247 eP    54 57.20    1.9
IRK     31.08 332 ePd   55 10.40   -0.4
        1.6s    42.00nm          4.9mb
      Z  15s     2.02um          4.9MszX
      N  13s     1.33um
      E  13s     0.83um
                  e     55 26.20
                  e     56 18.00
                  LR    07 19.00
IPM     33.18 234 ePc   55 29.30   -0.3
        0.7s    81.50nm          5.7mb
KGM     33.43 227 ePc   55 31.50   -0.2
YAK     35.63   2 eP    55 47.50   -2.5
        1.2s   105.00nm          5.6mb
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01d 02h

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EDU    87.29 335 eP     01 37.20  -0.5
ENN    87.39 327 eP     01 38.20   0.0
       0.9s    14.20nm          5.2mb
ESY    87.60 334 eP     01 38.20  -0.9
       1.3s    17.00nm          5.1mb
OSS    87.74 322 P      01 41.20   1.0
ORI    87.76 314 P      01 40.50   0.2
EBL    87.87 334 eP     01 40.10  -0.4
       1.2s    33.00nm          5.4mb
ROI    87.95 314 P      01 41.10  -0.1
SLE    87.97 324 P      01 41.13   0.0
WLF    87.98 326 P      01 41.00  -0.1
ARV    88.01 318 P      01 42.10   0.7
CSI    88.02 314 P      01 41.50   0.0
TDS    88.06 314 P      01 42.10   0.4
EAB    88.06 335 eP     01 40.70  -0.6
       1.3s    14.00nm          5.0mb
RSM    88.06 319 P      01 43.00   1.5
DUI    88.14 316 P      01 42.00  -0.1
CDF    88.21 325 eP     01 42.20  -0.1
       1.1s    38.85nm          5.5mb
SGO    88.22 315 P      01 41.80  -0.6
VDL    88.23 322 P      01 43.25   0.6
EKA    88.23 334 Pd     01 42.20   0.0
       0.5s     5.40nm          5.0mb
LLS    88.26 323 P      01 42.97   0.2
MGR    88.30 315 P      01 41.20  -1.6
ORV    88.31  46 ePc    01 43.11   0.2
                 epP    01 51.19  25kmX
                 e      01 57.22
SNF    88.35 328 Pc     01 42.70  -0.1
AQU    88.39 317 P      01 43.80   0.5
SFI    88.41 319 Pc     01 44.70   1.5
CZI    88.43 314 P      01 42.90  -0.5
ASS    88.43 318 P      01 44.00   0.5
FCC    88.46  20 ePc    01 45.80   2.6
DOU    88.47 327 Pc     01 42.80  -0.6
SDI    88.51 317 P      01 43.50  -0.4
PGD    88.52 319 Pc     01 45.40   1.4
CRE    88.53 319 P      01 44.70   0.7
TMA    88.79 322 P      01 45.06  -0.2
MNS    88.81 318 P      01 44.70  -0.6
BSF    88.83 324 eP     01 44.70  -0.7
       1.3s    28.90nm          5.4mb
FIR    88.85 319 eP     01 48.00   2.7
HAU    88.95 325 eP     01 45.30  -0.5
       1.2s    23.80nm          5.4mb
     Z 21s      0.90um          5.2Msz
VAI    89.00 322 P      01 45.30  -0.7
BDI    89.06 320 P      01 46.20  -0.3
SOI    89.11 313 P      01 47.00   0.3
FRB    89.28   7 eP     01 46.50  -0.5
       0.9s    14.00nm          5.3mb
PII    89.31 320 P      01 46.90  -0.6
MMK    89.32 323 P      01 48.29   0.4
VIP    89.50  45 P      01 33.82 -15.1X
DIX    89.60 323 P      01 49.27   0.0
EMS    89.87 323 P      01 50.40   0.0
CMB    89.87  47 eP     01 50.46   0.1
       1.2s    18.85nm          5.3mb
     Z 21s      0.28um          4.6Msz
PCP    89.94 321 P      01 50.22  -0.3
LSD    90.14 322 P      01 51.78   0.0
CKI    90.16 321 P      01 50.70  -0.8
LCCM   90.30  37 eP     01 53.20   0.8
LPL    90.33 323 eP     01 52.30  -0.3
       1.0s    15.60nm          5.3mb
LPG    90.33 323 eP     01 52.50  -0.2
       0.8s    11.55nm          5.3mb
FIN    90.33 321 P      01 51.51  -0.9
HAE    90.39 332 ePc    01 52.20  -0.2
       1.2s    31.00nm          5.5mb
ROB    90.47 321 P      01 51.73  -1.3
BNI    90.66 322 P      01 53.60  -0.4
HTR    90.66 332 ePc    01 53.60  -0.1
RRL    90.68 322 P      01 53.70  -0.5
IMI    90.70 321 P      01 53.70  -0.4
LOR    90.70 325 eP     01 53.30  -0.7
       1.5s    19.85nm          5.3mb
     Z 22s      0.95um          5.2Msz
ENR    90.76 321 P      01 53.47  -1.0
KVN    90.77  45 (P)    01 54.44  -0.3
HGH    90.79 332 eP     01 53.80  -0.4
STV    90.81 321 P      01 53.24  -1.4
LBF    90.83 325 eP     01 53.70  -0.9
       1.2s    14.00nm          5.2mb
PGF    90.90 319 eP     01 55.60   0.5
       1.2s   111.00nm          6.1mb
SBF    90.98 321 eP     01 55.00  -0.4
       1.0s    39.40nm          5.8mb
SSF    91.02 325 eP     01 55.20  -0.2
       1.0s     4.00nm          4.8mb
SMF    91.13 325 eP     01 55.20  -0.7
       1.5s    39.15nm          5.6mb
BONR   91.27  46 eP     01 58.38   1.2
AVF    91.28 325 eP     01 55.90  -0.7
       1.4s    25.70nm          5.4mb
HYF    91.32 326 eP     01 56.80   0.0
FRF    91.62 321 eP     01 58.00  -0.2
       0.9s    11.80nm          5.3mb
LDF    91.76 328 eP     01 58.20  -0.6
       1.5s    62.15nm          5.8mb
FLN    91.81 328 eP     01 58.50  -0.5
       0.9s    10.15nm          5.2mb
     Z 20s      1.13um          5.3Msz
LMR    91.84 321 eP     01 59.10  -0.2
       1.3s    36.10nm          5.6mb
LRG    91.85 321 eP     01 59.40   0.1
       1.2s    35.70nm          5.7mb
TNP    91.89  45 eP     02 01.27   1.4
       1.0s    17.37nm          5.4mb
                 e      02 15.10
MAF    92.07 325 eP     02 00.10  -0.2
       1.2s    11.30nm          5.2mb
TCF    92.20 325 eP     02 00.60  -0.3
       1.4s    14.40nm          5.2mb
GRR    92.25 328 eP     02 00.80  -0.2
       1.4s    42.70nm          5.7mb
HVU    92.36  40 eP     02 03.06   1.1
                 e      02 16.67
ISA    92.48  48 P      02 10.00   7.6X
     Z 21s      0.37um          4.8Msz
LSF    92.57 326 eP     02 01.90  -0.7
       1.5s    23.00nm          5.4mb
CME    92.89 332 eP     02 02.20  -1.7
MFF    93.17 327 eP     02 05.10  -0.2
       1.3s    27.10nm          5.5mb
TPNV   93.18  46 eP     02 06.47   0.7
       1.1s    21.50nm          5.5mb
CAF    93.20 324 eP     02 05.50  -0.1
       1.4s    25.25nm          5.5mb
RJF    93.23 325 eP     02 05.50  -0.1
       1.4s    30.50nm          5.5mb
     Z 22s      0.75um          5.1Msz
DUG    93.34  42 eP     02 07.68   1.3
       1.2s     9.92nm          5.1mb
     Z 21s      0.17um          4.5Msz
BW06   93.55  38 ePc    02 07.78   0.3
       1.0s     9.40nm          5.2mb
                 e      02 21.22
GSC    93.79  47 eP     02 09.30   0.8
                 e      02 23.28
LPO    93.82 325 eP     02 08.10  -0.3
       1.3s    19.15nm          5.4mb
LFF    93.88 325 eP     02 08.60   0.0
       1.2s    14.30nm          5.3mb
DAU    94.12  41 (P)    02 11.89   1.6
PEC    94.38  49 eP     02 11.43   0.2
       1.0s    28.25nm          5.7mb
                 e      02 24.96
ULM    94.64  26 eP     02 14.50   2.5
MSU    94.78  43 eP     02 14.43   1.2
                 e      02 29.26
PLM    94.90  49 eP     02 14.77   1.0
                 e      02 28.04
RSSD   95.56  34 ePc    02 17.45   0.8
       1.3s    16.72nm          5.4mb
     Z 20s      0.18um          4.5Msz
PV08   96.84  41 eP     02 23.57   0.8
GOL    97.95  38 P      02 40.00  12.4X
     Z 22s      0.24um          4.6Msz
TUC    99.58  47 P      02 50.00  15.1X
     Z 20s      0.32um          4.8Msz
ALQ   100.58  42 Pdiff  02 50.00  10.6X
     Z 22s      0.24um          4.7Msz
CBM   105.68  11 PKP    07 20.00   5.6X
     Z 19s      0.20um          4.7Msz
RSNY  106.62  16 PKP    07 30.00  13.7X
     Z 21s      0.29um          4.8Msz
FVM   106.83  30 PKP    07 30.00  13.1X
     Z 18s      0.27um          4.8Msz
MIAR  108.07  35 PKP    07 30.00  10.6X
     Z 18s      0.12um          4.5Msz
HRV   109.26  15 PKP    07 30.00   8.7X
     Z 21s      0.22um          4.7Msz
MYNC  112.01  27 PKP    07 40.00  13.2X
     Z 19s      0.21um          4.7Msz
CEH   113.22  23 PKP    07 40.00  10.9X
     Z 19s      0.27um          4.8Msz
GOGA  113.72  28 PKP    07 40.00   9.8X
     Z 20s      0.20um          4.7Msz
KIC   123.22 298 PKP    07 48.30  -0.5
TIC   123.27 298 PKP    07 48.40  -0.5
LIC   123.53 298 PKP    07 48.80  -0.6
     Z 21s      0.06um          4.2Msz
NNA   153.16  62 iPKPd   08 49.60   7.6X
       1.2s    23.44nm
BAO   168.40 337 ePKP    08 47.90 -10.1X
                 i      08 51.90
     S.D. = 0.9  on 288 of 323 obs.
-------------------------------------
* MAY 01, 1993  03h 04m 30.28± 0.77s
  24.235 S ±11.2km   66.988 W ±11.0km
  DEPTH = 185.3 ±  8.6 km
  4.3mb (  1 obs.)
 SALTA PROVINCE, ARGENTINA          (129)

SLA     1.45 110 iPc    05 04.00   1.3
                 (S)    05 29.00
FSA     2.04 155 iPc    05 09.00   0.5
                 (S)    05 37.00
ANT     3.18 279 iP+    05 20.00  -1.8
                 iS     05 55.70
CNCB    7.44 353 P      06 18.60   0.9
LPB     7.73 352 P      06 22.00   0.5
ZOBO    8.00 352 Pc     06 24.10  -1.0
     Z 24s      0.25um
                 i      07 52.00
                 i      08 54.80
                 LR     05 30.00
SIV     9.90  35 P      07 01.40  11.9X
                 e      14 03.00
PPD    14.59  84 eP     07 49.30   0.0
VAO    18.39  90 eP     08 32.50  -1.4
                 e      08 34.10
CACB   18.83  86 ePc    08 36.90  -1.6
                 e      08 38.20
                 i      08 38.60
                 i      08 43.70
                 eS     12 01.20
ULM    78.45 342 eP     16 14.00   2.3
FCC    85.69 346 eP     16 52.50   3.7X
YKA    94.35 340 eP     17 28.80  -0.5
       0.6s     1.20nm          4.3mb
WRA   131.42 207 PKP    23 23.60   0.8
       0.5s     0.60nm
GBA   144.82 101 PKPd   23 47.20  -0.1
       0.5s     4.00nm
     S.D. = 1.4  on  13 of  15 obs.
-------------------------------------
? MAY 01, 1993  03h 10m 05.24± 1.38s
  31.148 S ±29.1km   68.720 W ±19.1km
  DEPTH = 100.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA       (137)

RTLL    0.28 130 iPc    10 19.50  -0.5
                 S      10 30.20
RTCB    0.34 191 iPd    10 20.00  -0.4
                 S      10 31.50
CFA     0.62 138 ePc    10 22.00  -0.2
                 S      10 35.20
RTBS    0.81 231 ePd    10 23.70  -0.2
                 S      10 37.80
RTPR    2.08  67 ePc    10 39.20  -0.1
                 iS     11 06.00
     S.D. = 0.2  on   5 of   5 obs.
-------------------------------------
? MAY 01, 1993  03h 23m 14.15± 5.75s
  11.026 N ±17.7km   60.156 W ±46.9km
  DEPTH =  31.1 ± 11.6 km
 WINDWARD ISLANDS                   ( 95)
     MD 2.7 (TRN).

BOT     0.57 284 eP     23 25.79   0.1
                 eS     23 34.92
TPR     0.63 285 eP     23 26.59  -0.1
                 eS     23 36.77
PIG     0.69 281 eP     23 27.72   0.2
                 eS     23 40.10
TBH     1.04 239 eP     23 33.68   1.0
                 eS     23 52.11
```

01d 03h

TRN	1.28	253	eP	23	35.62	-0.4
			eS	23	54.49	
TPP	1.45	241	eP	23	37.48	-1.0
TCE	1.60	258	eP	23	41.00	0.3
GRW	1.86	308	eP	23	44.36	-0.1
			eS	24	08.61	

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

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* MAY 01, 1993 05h 00m 25.33± 0.75s
6.924 N ±19.1km 73.109 W ±16.2km
DEPTH = 165.6 ± 13.1 km
3.6mb (1 obs.)
NORTHERN COLOMBIA (99)

BMG	0.15	13	iPc	00	48.00	-1.0
FUQ	1.57	203	iPc	00	57.00	-0.6
BOG	2.48	203	iPc	01	09.00	1.3
			eS	01	39.50	
SDV	3.13	51	iPnd	01	17.10	1.4
			iSn	01	54.60	
TOV	4.34	49	ePnc	01	32.40	1.2
			iSn	02	22.50	
CEOS	5.17	66	iPd	01	41.40	-0.7
			iS	02	38.00	
GUAN	7.97	67	iPd	02	18.20	-1.3
			iS	03	44.60	
BCH	51.42	310	(P)	09	14.96	-0.7
YKA	63.17	340	eP	10	38.00	0.5

0.6s 0.50nm 3.6mb
S.D. = 1.4 on 9 of 9 obs.

% MAY 01, 1993 06h 13m 17.34± 1.45s
60.346 N ± 6.5km 4.443 E ±10.9km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 1.4 (BER).

EGD	0.40	100	iPd	13	25.62	0.2
			eS	13	30.40	
ASK	0.40	69	iPd	13	25.43	0.0
			eS	13	29.76	
BER	0.44	85	iPd	13	26.25	-0.1
			eS	13	30.92	
SUE	0.73	12	iPc	13	31.68	0.0
			eS	13	39.40	
HYA	1.19	45	eP	13	39.49	0.0
			eS	13	53.45	
KMY	1.21	160	iPd	13	39.77	0.0
			eS	13	56.92	
NRA0	3.53	81	Pg	14	20.10	6.8X
			Lg	15	06.22	

S.D. = 0.1 on 6 of 7 obs.

& MAY 01, 1993 06h 15m 58.26s
61.401 N 146.455 W
DEPTH = 21.4km
SOUTHERN ALASKA (2)
<AEIC>. ML 3.1 (AEIC), 3.2 (PMR).

KLU	0.27	70	iPd	16	04.37	-0.3
			eS	16	09.46	
VLZ	0.28	168	iPd	16	04.29	-0.4
			eS	16	09.35	
SCM	0.60	317	iPc	16	09.22	-0.9
			eS	16	17.56	
TZL	0.81	37	iPc	16	12.63	-0.9
CVA	0.92	158	ePc	16	13.89	-1.6
SML	0.99	295	iPc	16	14.82	-1.8
HIN	1.01	181	iPc	16	15.47	-1.5
			S	16	30.31	
SDG	1.21	20	iPc	16	18.28	-1.7
			S	16	33.79	
GHO	1.24	289	iPc	16	18.94	-1.5
			S	16	35.03	
GLB	1.27	87	iPc	16	18.38	-2.5
			eS	16	35.39	
PLRM	1.30	280	iPc	16	20.15	-1.0
PMR	1.30	280	iPd	16	19.77	-1.4
RAGM	1.34	139	eP	16	20.36	-1.4
PTE	1.36	248	ePc	16	21.13	-0.8
			eS	16	39.03	
PMS	1.51	265	P	16	23.70	-0.5
PAX	1.64	16	eP	16	24.83	-1.4
			eS	16	45.83	
PWA	1.66	280	P	16	25.70	-0.7
MPA	1.69	238	iPd	16	25.83	-0.9
CROM	1.74	110	eP	16	26.20	-1.5
KAIM	1.79	145	eP	16	27.00	-1.2
TGL	1.88	109	iPc	16	27.71	-1.9
SEW	1.96	230	eP	16	29.68	-1.1
BALM	2.02	99	iPc	16	29.62	-2.1
SLKM	2.04	246	iPd	16	30.93	-1.1
SUA	2.06	274	ePc	16	32.07	-0.3
			eS	16	59.78	
SNH	2.16	123	eP	16	31.40	-2.2
HUR	2.17	318	eP	16	33.71	-0.2
			eS	17	01.68	
RND	2.30	332	eP	16	35.38	-0.3
NKA	2.42	256	eP	16	38.65	1.4
SKT	2.49	286	ePc	16	37.13	-1.2
DOT	2.51	25	eP	16	37.53	-1.2
CTGM	2.52	98	eP	16	36.92	-2.0
YAH	2.53	112	eP	16	36.66	-2.4
MCK	2.61	335	eP	16	40.03	0.0
SPU	2.71	268	eP	16	40.73	-0.8
TRF	2.72	321	ePc	16	41.17	-0.6
CPAM	2.75	269	eP	16	41.52	-0.5
CRP	2.75	270	eP	16	41.39	-0.8
			eS	17	17.92	
CKN	2.77	269	eP	16	41.89	-0.4
CKT	2.78	268	eP	16	41.88	-0.7
CP2	2.79	270	eP	16	42.35	-0.4
			eS	17	19.30	
CKL	2.85	268	eP	16	41.95	-1.5
BGL	2.86	270	eP	16	42.52	-1.2
CNPM	3.02	234	iPd	16	44.68	-1.2
HDA	3.03	356	eP	16	44.11	-1.8
DFR	3.14	258	eP	16	45.47	-2.2
RSO	3.22	256	eP	16	47.17	-1.6
RS2	3.22	256	eP	16	47.40	-1.4
RS1	3.22	256	eP	16	47.38	-1.5
RDW	3.23	256	eP	16	48.03	-1.0
NCT	3.27	258	eP	16	47.84	-1.6
CCB	3.32	350	eP	16	47.93	-2.1
INW	3.54	251	eP	16	51.49	-1.9
FBA	3.56	351	eP	16	50.83	-2.8
GLM	3.63	354	eP	16	52.40	-2.1
MDM	3.66	348	eP	16	55.30	0.3
MLY	4.13	334	eP	16	59.59	-2.0
PDB	4.14	250	eP	17	00.27	-1.5
CDD	4.36	239	eP	17	03.15	-1.7
SVW	4.44	270	eP	17	03.18	-2.8
MCNL	4.51	244	eP	17	06.20	-0.8
TTA	4.74	293	eP	17	10.80	0.5
IMA	5.68	329	eP	17	22.12	-1.4
			eS	18	27.43	

63 obs. ossocioted

MAY 01, 1993 06h 16m 23.81± 0.75s
28.028 S ± 6.8km 26.820 E ± 8.9km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 3.1 (PRE).

SEK	0.77	113	iPd	16	40.00	0.7
			S	16	50.00	
BFS	1.13	358	iPc	16	46.00	0.5
			S	16	59.60	
BLF	1.21	207	iPd	16	46.90	0.0
			S	17	01.70	
PRY	1.24	28	eP	16	48.00	0.6
			S	17	06.50	
SWZ	1.57	302	iPc	16	52.70	0.1
			S	17	11.10	
KSR	2.16	2	iPd	17	03.00	1.9
			S	17	31.50	
FRS	2.16	217	eP	17	00.70	-0.2
			S	17	26.10	
SLR	2.63	30	iPc	17	07.80	0.0
			S	17	39.00	
BFT	3.71	52	eP	17	22.50	-0.7
			S	18	15.50	
BUL	8.02	12	iPn	18	21.00	-2.9
			eSn	19	48.00	
			iSg	20	36.00	

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

MAY 01, 1993 06h 32m 36.11± 1.14s
36.656 N ± 4.8km 10.293 W ±10.6km
DEPTH = 10.0km (geophysicist)
NORTH ATLANTIC OCEAN (402)

LIS	2.25	23	eP	33	18.00	4.1X
			iS	33	43.60	
EVAL	2.98	71	ePn	33	25.45	1.1
			eSn	33	56.90	
TSY	3.73	109	iP	33	21.00	-14.0X
			iS	33	52.00	
EJIF	3.89	92	ePn	33	38.08	0.9
			eSn	34	18.20	
EPRU	4.07	84	ePn	33	39.88	0.1
			eSn	34	24.40	
AVE	4.10	144	ePn	33	40.50	0.3
			iSn	34	22.50	
NKM	4.14	105	ePn	33	42.00	1.3
			iSn	34	23.00	
EHOR	4.19	72	ePn	33	41.81	0.3
			eSn	34	26.30	
MAL	4.73	87	iPnc	33	51.00	1.9
			iSg	34	41.80	
EPLA	4.75	43	iPnd	33	50.31	0.8
			eSn	34	42.00	
ELUO	4.90	78	iPnc	33	51.15	-0.5
			eSn	34	42.70	
IFR	5.27	125	iPn	33	56.00	-0.9
			iSn	34	49.00	
EBAN	5.40	72	iPnd	33	58.10	-0.5
			eSn	34	54.80	
EGUA	5.41	86	iPnc	33	59.06	0.3
			eSn	34	54.10	
ECOG	5.42	81	ePn	33	58.82	-0.3
			eSn	34	56.70	
ERUA	6.23	22	ePn	34	11.24	1.0
			eSn	35	19.40	
GUD	6.24	48	ePn	34	10.54	0.0
			eSn	35	17.00	
TIO	6.25	155	iPn	34	10.00	-0.7
			iSn	35	15.00	
EHUE	6.25	77	ePn	34	09.05	-1.7
			eSn	35	17.00	
ENIJ	6.50	85	ePn	34	14.18	0.1
EMON	7.14	18	ePn	34	24.75	1.6
			eSn	35	41.20	
ETOR	7.66	55	ePn	34	29.48	-1.0
			eSn	35	50.20	
ECRI	8.45	43	ePn	34	40.90	-0.6
EPF	10.36	49	Pn	35	07.70	-0.1
			Sn	36	55.00	
LFF	11.75	42	Pn	35	25.80	-0.9
LPO	11.83	44	Pn	35	27.10	-0.7
RJF	12.41	42	Pn	35	34.80	-0.8
			Sn	37	43.00	
CAF	12.48	45	Pn	35	35.90	-0.6
			Sn	37	44.00	
MFF	12.49	34	Pn	35	36.60	-0.1
LSF	13.04	39	Pn	35	44.00	0.0
TCF	13.42	40	Pn	35	48.50	-0.5
LDF	14.07	29	Pn	35	58.20	0.7
FLN	14.07	28	Pn	35	57.30	-0.2
SSF	14.60	40	Pn	36	04.10	-0.4

S.D. = 0.9 on 32 of 34 obs.

& MAY 01, 1993 06h 40m 07.33s
34.151 N 116.423 W
DEPTH = 6.2km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 3.3 (PAS), 3.0 (GS). Felt.

PEC	0.66	247	iPd	40	19.50	-1.2
			eS	40	28.16	
PLM	0.88	205	iPd	40	23.42	-1.2
			eS	40	35.28	
SSK	1.05	274	ePc	40	26.62	-1.1
			S	40	41.07	
GSC	1.19	345	eP	40	28.85	-1.1
GLA	1.73	129	iPnd	40	35.33	-2.7
ISA	2.26	312	ePn	40	44.89	-1.0
			ePg	40	48.06	
TPNV	2.80	3	ePn	40	52.59	-1.0
MTUM	3.64	332	ePn	41	04.28	-1.3
			iPg	41	11.63	
MRCM	3.90	335	(Pn)	41	10.11	0.8
			ePg	41	12.01	
TNP	3.98	351	(Pn)	41	11.07	0.8
			ePg	41	21.01	
			eS	42	13.85	
MMPM	4.05	329	ePn	41	11.42	0.0
			ePg	41	21.24	
MEMM	4.06	331	(Pn)	41	11.79	0.6

		ePg	41	22.07	
BONR	4.09	339 (Pn)	41	11.19	-0.8
		ePg	41	23.39	
ARUT	4.36	33 ePn	41	14.79	-1.0
TUC	5.07	110 eP	41	21.24	-4.5
		S	42	44.41	
MSU	5.54	37 (Pn)	41	31.98	-0.6

16 obs. assocloted

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* MAY 01, 1993 06h 47m 47.30± 0.77s
38.939 N ±12.1km 48.896 E ± 9.5km
DEPTH = 33.0km (normal)
4.1mb (3 obs.)
ARMENIA-AZERBAIJAN-IRAN BORD REG(344)
Felt in the Astara area, Iran.

TAB	2.20	247 eP	48	22.00	-0.3
TEH	3.76	147 eP	48	45.00	0.5
MAIO	8.81	104 ePn	49	55.00	-0.5
	0.8s	11.35nm		5.1mb	
		eSn	51	27.00	
GEC2	27.01	303 P	53	39.00	10.9X
		e	53	42.70	
		e	08	14.20	
HFS	30.59	325 eP	54	00.20	0.2
	0.4s	1.00nm		3.9mb	
NB2	32.09	326 P	54	13.30	0.1
	0.5s	0.70nm		3.8mb	

S.D. = 0.6 on 5 of 6 obs.

& MAY 01, 1993 06h 48m 47.41s
36.483 N 121.004 W
DEPTH = 0.7km
CENTRAL CALIFORNIA (39)
<GM-P>. MD 3.0 (GM). ML 2.9 (GS).

SAO	0.45	309 eP	48	56.38	-0.1
PHAM	0.81	143 eP	49	03.57	0.0
COE	0.94	325 ePn	49	06.47	0.3
ARN	0.96	334 ePn	49	06.26	-0.3
BCH	1.50	150 eP	49	13.50	-2.1
		eS	49	33.75	
JEGM	1.56	312 (Pn)	49	15.35	-1.0
CMB	1.63	17 ePn	49	17.12	-0.3
HMR	1.79	339 (P)	49	20.26	0.7
MMPM	1.94	54 eP	49	21.88	-0.3
		eS	49	48.45	
MEMM	2.03	54 eP	49	23.55	0.4
		eS	49	51.19	
MTUM	2.14	65 ePn	49	25.70	0.7
		eS	49	54.70	
ISA	2.21	111 ePn	49	24.12	-1.7
		eS	49	53.25	
NTYM	2.32	326 (P)	49	27.05	-0.2
MRCM	2.32	59 ePn	49	28.55	0.9
		eS	50	00.36	
BONR	2.61	55 ePn	49	33.13	1.3
ORV	3.09	353 ePn	49	39.89	1.6
TNP	3.42	61 ePg	49	52.44	9.3
KVN	3.44	41 ePg	49	53.51	9.9
SSK	3.53	129 (Pn)	49	44.08	-0.7
GSC	3.61	108 eP	49	44.04	-1.7

20 obs. assaciated

MAY 01, 1993 06h 55m 47.57± 0.35s
24.338 N ± 7.1km 123.002 E ± 9.7km
DEPTH = 33.0km (normal)
4.8mb (19 obs.)
SOUTHWESTERN RYUKYU ISLANDS (246)

SSE	6.92	347 Pnc	57	30.70	1.4
	0.8s	52.00nm		5.5mb	
	Z 20s	0.50um			
		Sn	58	48.50	
BJI	16.68	341 eP	59	48.00	7.7X
GUN	33.44	284 P	02	26.60	0.5
PKI	33.87	284 P	02	29.80	0.0
DMN	34.14	284 P	02	32.20	0.2
GKN	34.53	284 P	02	35.40	0.1
YAK	37.94	5 eP	03	02.00	-1.4
	1.0s	25.00nm		5.0mb	
WRA	45.38	165 P	04	05.20	0.4
	0.8s	2.90nm		4.2mb	
WB2	45.38	165 iPd	04	04.70	-0.1
	0.7s	5.10nm		4.5mb	
		i	04	15.60	
ASPA	48.88	167 eP	04	32.40	0.2
	0.8s	5.40nm		4.6mb	
STK	58.66	161 eP	05	43.60	-0.4
	0.3s	1.90nm		4.7mb	
KAF	71.84	331 iP	07	08.00	-0.7
	0.4s	0.80nm		4.1mb	
MBC	72.75	13 eP	07	13.00	-0.9
HFS	78.24	331 eP	07	43.80	-1.5
	0.4s	1.10nm		4.2mb	
	Z 17s	0.05um		3.9MszX	
		LR	42	25.00	
NB2	78.86	333 P	07	47.80	-0.9
	0.7s	1.60nm		4.1mb	
YKA	82.18	23 eP	08	05.80	-0.4
	0.8s	5.40nm		4.6mb	
VBY	84.50	318 eP	08	19.00	0.5
CDF	87.60	323 iPd	08	33.90	0.1
	0.8s	3.75nm		4.7mb	
LPG	89.57	321 iPd	08	43.70	0.2
	0.8s	5.90nm		4.9mb	
LPL	89.57	321 iPd	08	43.60	0.2
	0.8s	4.85nm		4.8mb	
DPW	89.59	36 eP	08	44.98	1.7
PGF	89.89	318 iPd	08	44.80	0.0
	0.8s	5.65nm		4.9mb	
NEW	89.93	35 iPc	08	46.36	1.5
	1.0s	17.23nm		5.3mb	
FRB	91.74	5 eP	08	52.50	-0.3
GRR	91.91	326 iPd	08	53.20	-0.7
	0.9s	7.35nm		5.1mb	
CAF	92.56	322 iPd	08	57.70	0.7
	0.9s	4.60nm		4.9mb	
RJF	92.63	323 iPd	08	58.00	0.7
	0.8s	5.50nm		5.0mb	
MFF	92.70	325 iPd	08	56.60	-0.9
	0.6s	1.25nm		4.5mb	
SDV	144.40	24 ePKP	15	20.60	-2.5X

S.D. = 0.8 on 27 of 29 obs.

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* MAY 01, 1993 07h 11m 19.39± 1.24s
0.932 S ±11.9km 123.605 E ± 9.4km
DEPTH = 43.0 ± 15.4 km
4.1mb (3 obs.)
MINAHASSA PENINSULA, SULAWESI (265)

PCI	3.77	270 ePc	12	18.00	1.5
		eS	12	54.00	
TNE	4.11	65 eP	12	21.10	-0.2
MKS	5.93	224 iPc	12	45.50	-1.5
WB2	21.63	152 eP	16	07.70	-0.3
	0.8s	3.90nm		3.9mb	
ASPA	24.71	157 eP	16	39.50	1.4
	1.2s	6.70nm		4.1mb	
STK	35.16	153 eP	18	11.30	0.1
	0.6s	1.90nm		4.2mb	
GUN	46.18	311 P	19	42.40	-0.1
GKN	47.17	311 P	19	49.20	-0.8
EKA	110.81	331 PKPd	29	55.20	5.9X
	1.0s	5.60nm			
FRB	116.69	6 ePKP	30	19.50	19.3X
	0.6s	5.00nm			
ULM	120.52	28 ePKP	30	05.00	-3.0X

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

MAY 01, 1993 07h 18m 00.69± 1.12s
44.292 N ± 7.9km 149.540 E ± 6.4km
DEPTH = 47.1 ± 10.2 km
4.6mb (35 obs.)
KURIL ISLANDS (221)

KUSJ	3.70	253 eP	18	55.70	-1.1
		eS	19	36.90	
HOOJ	4.94	249 eP	19	15.30	1.0
		eS	20	11.30	
ASAJ	4.96	270 eP	19	16.40	1.8
MRRJ	6.45	256 eP	19	36.10	0.7
		eS	20	47.80	
OFUJ	7.86	231 eP	19	53.20	-1.9
		eS	21	15.30	
YAK	21.21	334 eP	22	40.90	-3.2X
	1.0s	101.00nm		5.1mb	
		e(S)	26	40.00	
BJI	24.99	272 eP	23	21.00	-0.3
	1.5s	29.00nm		4.6mb	
PJG	30.86	189 eP	24	13.20	-1.4
LZH	35.47	273 Pc	24	55.00	0.3
	1.0s	37.00nm		5.3mb	
		pP	25	06.50	41kmX
IMA	37.26	34 iPd	25	09.20	-0.2
	0.8s	2.80nm		4.2mb	
		pP	25	38.10	127kmX
FBA	39.64	36 iP	25	29.10	0.0
	1.0s	1.20nm		3.7mb	
		pP	25	55.00	113kmX
		e	26	31.30	
INK	45.06	31 eP	26	14.00	0.9
MBC	47.75	19 eP	26	33.50	-0.8
CHG	49.09	256 eP	26	41.00	-4.3X
GUN	52.70	274 P	27	12.40	-0.7
	0.6s	18.00nm		5.3mb	
KKN	53.20	275 P	27	16.00	-0.6
	0.6s	14.00nm		5.2mb	
PKI	53.23	274 P	27	16.20	-0.8
DMN	53.43	275 P	27	18.00	-0.4
GKN	53.53	275 P	27	18.40	-0.6
	0.6s	13.00nm		5.1mb	
YKA	54.39	35 eP	27	23.30	-1.3
	0.7s	1.70nm		4.2mb	
NEW	60.67	50 eP	28	08.50	-0.7
	0.9s	1.97nm		4.2mb	
FCC	64.68	31 eP	28	37.50	2.0
BGMT	65.28	50 eP	28	40.10	0.2
WB2	65.42	196 iPd	28	41.80	1.2
	0.7s	3.80nm		4.5mb	
WRA	65.42	196 P	28	43.00	2.4
	0.7s	1.50nm		4.1mb	
FRB	68.17	17 eP	28	55.50	-2.0
	0.8s	3.00nm		4.4mb	
BW06	68.23	51 eP	28	58.40	-0.2
	0.8s	0.83nm		3.8mb	
NB2	69.71	340 P	29	04.30	-2.8X
	0.6s	3.50nm		4.5mb	
HFS	69.84	338 eP	29	04.70	-3.2X
	0.4s	2.90nm		4.6mb	
SRU	70.07	55 eP	29	09.97	0.0
PV10	71.43	54 eP	29	18.79	0.5
PV08	71.52	54 eP	29	18.79	-0.1
ALQ	75.28	56 eP	29	44.30	3.6X
	0.7s	0.68nm		3.7mb	
KSP	76.93	332 eP	29	49.00	-0.4
CLL	77.61	334 iPd	29	52.40	-0.7
	0.9s	15.00nm		5.0mb	
PRU	78.24	332 eP	29	56.00	-0.6
KHC	79.30	332 eP	30	02.50	0.0
		e	30	19.00	
		e	32	58.00	
GEC2	79.51	332 P	30	03.00	-0.7
	0.5s	1.69nm		4.2mb	
		e	30	09.00	
		e	30	11.30	
		e	32	58.50	
GRF	79.58	334 eP	30	04.00	0.0
	0.8s	8.00nm		4.7mb	
LTX	80.91	58 eP	30	11.30	-0.2
VBY	81.83	329 eP	30	15.50	-0.3
HAU	82.56	336 eP	30	19.60	-0.1
OHR	83.33	324 eP	30	23.50	-0.3
FLN	83.68	341 eP	30	25.00	-0.3
	0.8s	3.75nm		4.5mb	
LOR	83.94	337 eP	30	26.70	0.0
	0.6s	2.05nm		4.4mb	
GRR	84.12	341 eP	30	27.60	0.0
	0.6s	8.05nm		5.0mb	
LBF	84.16	337 eP	30	27.90	0.0
	0.6s	1.45nm		4.2mb	
LPF	84.49	341 eP	30	29.80	0.4
	0.8s	5.65nm		4.7mb	
SMF	84.51	337 eP	30	29.90	0.3
	1.0s	12.20nm		5.0mb	
AVF	84.51	337 eP	30	29.60	0.0
	0.7s	3.75nm		4.6mb	
LPL	84.69	335 eP	30	31.30	0.5
	0.8s	3.65nm		4.5mb	
LPG	84.70	335 eP	30	31.30	0.4
	0.7s	2.45nm		4.4mb	
MAF	85.25	338 eP	30	34.00	0.7
	0.8s	7.50nm		4.9mb	
TCF	85.29	338 eP	30	33.90	0.4
	0.8s	3.10nm		4.5mb	
MFF	85.61	340 eP	30	35.50	0.4
	0.6s	4.25nm		4.8mb	
CAF	86.58	338 eP	30	40.40	0.4
	0.7s	3.75nm		4.7mb	
LFF	86.93	338 eP	30	42.60	1.0

01d 07h

	0.7s	5.50nm		4.9mb	
LPO	87.05	338 eP	30 43.20	1.0	
	0.7s	3.95nm		4.8mb	
PPD	151.91	45 ePKP	37 52.70	7.4X	
	S.D. = 0.9	on 53 of 59 obs.			

? MAY 01, 1993 07h 20m 26.31± 0.94s
40.762 N ± 8.4km 23.046 E ± 7.4km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 1.6 (THE).

THE	0.14	205 ePg	20 29.76	0.1	
		eSg	20 32.04		
SOH	0.24	76 ePg	20 31.44	0.0	
		eSg	20 34.84		
KNT	0.41	344 ePg	20 34.88	0.1	
		eSg	20 39.68		
GRG	0.53	292 ePg	20 36.88	-0.1	
		iSg	20 44.04		
	S.D. = 0.2	on 4 of 4 obs.			

MAY 01, 1993 07h 21m 01.61± 0.96s
51.775 N ± 8.0km 177.010 E ± 4.2km
DEPTH = 64.0 ± 7.8 km
4.5mb (31 obs.)
RAT ISLANDS, ALEUTIAN ISLANDS (6)
ML 5.1 (PMR).

SMY	2.03	299 ePc	21 33.69	-0.4	
		S	21 59.41		
ADK	3.91	86 ePc	22 00.16	-0.4	
		S	22 44.98		
SDN	13.82	66 eP	24 15.13	-0.5	
SVW	17.65	47 eP	25 05.84	1.5	
	0.8s	16.16nm		4.3mb	
TTA	18.18	42 eP	25 11.12	0.3	
	1.0s	14.16nm		4.1mb	
RSO	18.81	51 eP	25 18.88	0.3	
CP2	19.26	49 ePd	25 24.12	0.5	
CRP	19.30	49 eP	25 24.54	0.5	
PMS	20.51	49 eP	25 37.10	0.6	
IMA	20.54	35 eP	25 37.40	0.5	
	0.7s	39.80nm		4.9mb	
KLU	22.28	50 eP	25 54.20	-0.1	
FBA	22.29	40 eP	25 54.12	-0.1	
	0.7s	17.44nm		4.6mb	
BRW	22.87	22 eP	26 00.06	0.3	
INK	28.66	36 ePc	26 54.90	1.2	
	0.6s	3.00nm		4.1mb	
MBC	34.23	22 ePc	27 42.50	0.0	
	1.0s	6.00nm		4.5mb	
HVU	47.36	73 (P)	29 29.68	-1.3	
FCC	47.55	45 eP	29 34.00	2.0	
DUG	48.31	75 eP	29 37.39	-0.9	
	0.8s	3.03nm		4.3mb	
GSC	49.01	82 eP	29 42.81	-0.8	
SRU	50.36	74 eP	29 53.98	-0.1	
PV09	51.59	74 eP	30 03.69	0.1	
		e	30 14.80		
PV10	51.72	74 (P)	30 05.30	0.8	
PV08	51.83	74 eP	30 05.49	0.0	
LZH	52.75	283 eP	30 11.50	-0.7	
	1.0s	25.00nm		5.2mb	
JAQ	58.57	42 eP	30 52.00	-1.6	
SDF	59.09	347 iP	30 55.50	-1.5	
LTX	61.16	78 eP	31 10.84	-0.8	
EEO	62.29	49 eP	31 20.00	1.0	
KAF	64.10	345 iP	31 29.20	-1.4	
	0.5s	7.80nm		4.9mb	
NUR	65.89	345 iP	31 40.70	-1.4	
	0.6s	7.40nm		4.8mb	
CBM	66.95	43 eP	31 47.26	-1.8	
NB2	66.96	353 P	31 48.00	-1.0	
	0.6s	3.70nm		4.5mb	
UPP	67.48	349 iP	31 51.20	-1.0	
HFS	67.64	351 eP	31 51.50	-1.7	
	0.4s	2.40nm		4.5mb	
OBN	68.53	337 iPc	31 58.00	-0.8	
	1.0s	21.00nm		5.0mb	
EMM	68.96	44 eP	32 00.32	-1.2	
LMN	69.19	41 eP	32 06.00	3.0X	
GUN	69.27	289 P	32 04.40	0.2	
KKN	69.71	289 P	32 07.00	0.3	
	0.6s	31.00nm		5.4mb	
PKI	69.80	289 P	32 07.60	0.2	
GKN	69.93	290 P	32 08.20	0.2	
DMN	69.95	289 P	32 08.60	0.4	
	0.6s	19 00nm		5.2mb	
CEH	70.36	57 eP	32 09.51	-0.7	
	0.6s	6.72nm		4.7mb	
EKA	73.26	0 Pc	32 27.50	0.3	
	1.3s	17.70nm		4.8mb	
ZST	78.94	346 eP	33 14.40	15.2X	
CDF	79.81	353 iPd	33 03.90	-0.2	
	0.7s	2.45nm		4.2mb	
FLN	79.82	358 iPd	33 03.80	-0.2	
	0.8s	6.70nm		4.6mb	
LDF	79.98	358 iPd	33 04.70	-0.1	
	0.6s	4.70nm		4.6mb	
GRR	80.20	359 iPd	33 06.10	0.1	
	1.0s	16.00nm		4.9mb	
BSF	80.42	353 iPd	33 07.10	-0.3	
	0.6s	2.00nm		4.2mb	
KBA	80.53	349 iPd	33 09.10	1.0	
	0.5s	5.80nm		4.8mb	
		i	33 20.60		
		i	33 24.60		
WTTA	80.55	350 iPd	33 08.70	0.6	
WB2	80.55	220 iPc	33 08.60	0.4	
	1.1s	4.20nm		4.3mb	
WRA	80.56	220 P	33 08.90	0.7	
	0.6s	1.60nm		4.1mb	
LPF	80.56	359 iPd	33 09.00	1.1	
	0.7s	3.65nm		4.4mb	
LOR	81.16	355 iPd	33 11.10	0.0	
	0.8s	2.70nm		4.2mb	
SSF	81.39	356 iPd	33 12.50	0.2	
	0.7s	3.00nm		4.3mb	
HYB	81.61	287 eP	33 14.50	0.6	
SMF	81.78	355 iPd	33 14.50	0.1	
	0.6s	2.00nm		4.3mb	
VBY	81.83	347 eP	33 15.50	0.9	
MFF	81.97	358 iPd	33 15.70	0.4	
LPO	83.85	357 iPd	33 27.00	1.9	
	0.6s	3.95nm		4.6mb	
GBA	85.26	286 P	33 32.90	0.4	
	0.8s	3.00nm		4.4mb	
SLR	144.82	306 e(PKP)	40 41.50	8.8X	
KSR	145.62	307 iPKPc	40 35.00	0.9	
	0.6s	9.00nm			
PRY	146.21	306 ePKP	40 35.00	0.0	
	1.0s	60.00nm			
SEK	147.27	304 iPKPc	40 40.20	3.5X	
	1.0s	60.00nm			
FRS	149.60	305 iPKPc	40 35.00	-5.1X	
	0.6s	6.67nm			
	S.D. = 0.9	on 63 of 68 obs.			

% MAY 01, 1993 07h 39m 21.24± 0.76s
41.151 N ±14.3km 28.473 E ± 6.7km
DEPTH = 5.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

CTT	0.03	264 iPg	39 22.40	-0.1	
ISK	0.45	101 iPg	39 30.00	-0.3	
		eSg	39 36.00		
DMK	0.86	322 iPg	39 38.30	0.0	
		iSg	39 49.50		
HRT	0.96	110 ePn	39 40.00	0.0	
EYL	1.40	114 ePn	39 48.00	0.4	
	S.D. = 0.3	on 5 of 5 obs.			

* MAY 01, 1993 07h 39m 27.30± 0.99s
35.188 N ±12.2km 142.314 E ±15.9km
DEPTH = 33.0km (normal)
3.8mb (4 obs.)
OFF EAST COAST OF HONSHU, JAPAN (229)

YAMJ	3.50	329 eP	40 20.60	-0.1	
		eS	41 01.10		
MAT	3.60	293 eP	40 22.00	-0.1	
		(S)	40 54.00		
OFUJ	3.92	353 P	40 25.60	-1.0	
		S	41 09.10		
GUN	48.10	278 P	48 19.40	13.1X	
GKN	49.07	278 P	48 26.80	13.3X	
WRA	55.35	189 P	48 59.50	-0.8	
	0.5s	0.60nm		3.9mb	
YKA	65.04	30 eP	50 06.00	-0.1	
	0.8s	0.30nm		3.4mb	
HFS	76.07	336 eP	51 13.70	0.8	
	0.4s	0.30nm		3.7mb	
NB2	76.17	338 P	51 14.80	1.3	
	0.7s	1.10nm		4.0mb	
ZOBO	146.93	63 PKP	59 11.20	4.1X	
LPB	147.12	63 (PKP)	59 11.00	3.8X	
CNCB	147.38	64 PKP	59 13.80	6.0X	
	S.D. = 1.0	on 7 of 12 obs.			

? MAY 01, 1993 07h 57m 13.48± 2.29s
14.761 N ± 8.4km 40.497 E ±63.7km
DEPTH = 10.0km (geophysicist)
4.2mb (8 obs.)
ETHIOPIA (558)

AAE	5.94	197 ePn	58 44.00	0.0	
ZST	38.53	335 eP	04 38.30	0.5	
		e	15 12.40		
GEC2	40.49	333 P	04 54.90	0.8	
	1.2s	5.31nm		4.1mb	
LPG	41.78	324 eP	05 09.40	4.4X	
	1.1s	5.60nm		4.2mb	
LPL	41.80	324 eP	05 09.90	4.8X	
	0.9s	4.60nm		4.2mb	
GRF	42.22	332 eP	05 08.00	-0.2	
BSF	43.17	327 eP	05 16.20	0.1	
	0.9s	4.10nm		4.2mb	
LBF	44.21	324 eP	05 24.10	-0.4	
	0.8s	2.55nm		4.1mb	
LOR	44.43	325 eP	05 26.00	-0.3	
	0.6s	1.80nm		4.1mb	
HFS	49.36	343 eP	06 04.30	-0.5	
	0.5s	0.60nm		3.8mb	
Z	17s	0.05um		3.6MszX	
		LR	19 28.00		
NB2	50.81	342 P	06 16.00	0.0	
	1.2s	6.30nm		4.4mb	
	S.D. = 0.5	on 9 of 11 obs.			

? MAY 01, 1993 08h 03m 21.04± 2.37s
16.389 S ±20.0km 174.968 W ±22.0km
DEPTH = 326.4 ± 18.8 km
4.5mb (10 obs.)
TONGA ISLANDS (173)

SVA	6.51	254 iPd	04 57.90	0.1	
		eS	05 45.30		
DZM	18.43	249 iPc	07 16.10	0.7	
ARMA	33.54	239 iPc	09 33.10	0.1	
	0.7s	9.00nm		4.3mb	
CTA	36.96	258 iP	10 02.50	0.9	
		i	11 07.50		
CAN	37.23	233 iPd	10 04.30	0.5	
BWA	37.37	234 eP	10 04.20	-0.8	
TOO	40.67	231 eP	10 32.20	0.2	
	0.9s	26.00nm		4.5mb	
STK	42.24	240 iPd	10 45.20	0.4	
	0.9s	5.30nm		3.8mb	
WB2	48.14	258 eP	11 30.10	-1.1	
	0.7s	23.80nm		4.6mb	
WRA	48.15	258 P	11 30.50	-0.8	
	0.8s	10.80nm		4.2mb	
FORT	53.63	244 eP	12 10.50	-1.4	
WARB	54.89	249 eP	12 20.50	-0.6	
MAT	68.73	321 eP	13 51.00	-1.1	
	1.0s	18.00nm		4.8mb	
FBA	83.65	11 iPc	15 13.10	-1.0	
	0.7s	7.80nm		4.6mb	
BJI	85.06	314 eP	15 22.00	0.4	
	1.5s	58.00nm		5.2mb	
		e	19 48.00		
KMI	90.10	296 Pd	15 48.50	2.4	
	1.5s	50.00nm		5.2mb	
YKA	91.60	24 eP	15 51.60	-0.4	
	1.1s	0.80nm		3.6mb	
KSP	144.46	348 ePKP	22 19.20	-0.8	
	1.0s	37.00nm			
		id	22 20.30		
CLL	144.58	351 iPKP	22 19.40	-0.8	
	1.5s	26.00nm			
PPE	144.80	332 ePKP	22 21.50	0.8	
BRG	144.86	350 iPKPd	22 20.60	-0.1	
	1.3s	23.00nm			
MOX	145.42	353 ePKP	22 22.30	0.6	
	1.6s	39.00nm			
VRI	145.47	333 ePKP	22 16.00	-5.9X	
PRU	145.61	349 ePKP	22 22.40	0.4	
		i	22 23.50		
ENN	145.70	359 ePKP	22 23.50	1.4	

```
        1.5s     36.70nm
CVO   145.74 333 ePKP   22 21.00   -1.4
MLR   146.10 333 ePKP   22 23.00   -0.1
GRF   146.41 353 iPKPd  22 26.40    3.1X
                 id     22 27.60
KHC   146.61 350 PKP    22 26.60    2.9X
        1.2s     10.00nm
                 e      23 44.00
ZST   146.77 345 ePKP   22 26.30    2.4X
                 e      36 05.30
WLF   146.80 359 iPKPd  22 27.48    3.6X
        1.2s     21.60nm
GEC2  146.86 350 PKP    22 26.50    2.3X
        0.9s      4.59nm
                 e      22 33.30
                 e      22 38.60
FLN   147.40   7 ePKP   22 27.40    2.5X
        0.7s     10.35nm
LDF   147.61   6 ePKP   22 28.00    2.8X
        0.5s      4.00nm
HRI   147.62 307 ePKP   22 30.00    4.1X
GRR   147.72   7 ePKP   22 28.50    3.1X
        0.6s     11.00nm
CDF   148.01 357 ePKP   22 29.60    3.6X
        0.8s      8.35nm
LPF   148.05   8 ePKP   22 29.50    3.6X
        0.6s     10.80nm
JVI   148.44 305 ePKP   22 31.70    4.5X
HAU   148.45 358 ePKP   22 30.70    4.1X
        0.7s      6.40nm
BSF   148.61 358 ePKP   22 31.00    4.0X
        0.8s      3.65nm
KBA   148.63 349 iPKPc  22 30.90    3.7X
        0.6s      4.30nm
WTTA  148.73 351 iPKPc  22 31.50    4.2X
        0.6s     12.90nm
LOR   149.19   2 ePKP   22 32.60    4.8X
        1.0s      9.60nm
LJU   149.39 347 ePKP   22 33.00    4.9X
SSF   149.39   2 ePKP   22 33.30    5.2X
        1.0s     16.00nm
LBF   149.48   1 ePKP   22 33.30    5.0X
        0.7s      5.85nm
VOY   149.53 348 e(PKP)22 33.20    4.8X
RMN   149.54 303 ePKP   22 34.20    5.2X
MFF   149.57   7 ePKP   22 33.50    5.2X
        0.7s      5.20nm
AVF   149.65   2 ePKP   22 33.40    4.9X
        0.8s      5.25nm
CEY   149.70 347 e(PKP)22 33.50    4.9X
VBY   149.73 346 ePKP   22 29.90    1.3
                 i(PKPb22 34.70
LSF   150.08   5 ePKP   22 34.40    5.2X
        0.8s     12.35nm
TCF   150.10   4 ePKP   22 34.70    5.5X
        1.0s      9.00nm
MAF   150.19   3 ePKP   22 35.10    5.8X
        0.9s     11.45nm
RSL   150.76 358 PKP    22 37.09    6.7X
SKO   150.86 334 iPKP   22 36.80    6.3X
                 i      22 45.30
LPL   150.93 358 ePKP   22 38.30    7.6X
        0.7s      6.15nm
LPG   150.94 358 ePKP   22 37.90    7.0X
        0.7s      6.15nm
RJF   151.02   5 ePKP   22 36.90    6.3X
LFF   151.31   6 ePKP   22 38.90    7.9X
CAF   151.44   4 ePKP   22 38.10    6.8X
        0.9s      7.70nm
LPO   151.61   6 ePKP   22 38.30    6.8X
OHR   151.85 334 ePKP   22 39.20    7.2X
SURF  151.96 357 PKP    22 40.09    7.8X
SBF   152.54 356 ePKP   22 38.70    5.8X
        0.8s      7.40nm
PGF   153.71 353 ePKP   22 42.50    7.9X
        0.8s      4.05nm
     S.D. = 1.0  on  27 of  68 obs.
-----------------------------------------
%  MAY  01, 1993  08h 08m 13.30± 0.49s
   40.146 N ± 4.1km   29.270 E ± 4.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 3.0 (ISK).

YLV     0.43  11 iPg   08 22.30    0.3
KCT     0.71 279 iPg   08 27.30    0.0
HRT     0.74  24 iPg   08 27.30   -0.5
EYL     0.80  58 ePg   08 29.10    0.2
                 eSg   08 40.90
ISK     0.93 350 iPn   08 31.40    0.3
BNT     1.05 282 iPn   08 33.40    0.2
CTT     1.19 328 iPn   08 35.30   -0.1
ALT     1.27 149 iPn   08 37.00    0.1
KHL     1.83 174 ePn   08 45.00   -0.1
DMK     2.03 326 ePn   08 47.50   -0.4
      S.D. = 0.3  on  10 of  10 obs.
-----------------------------------------
?  MAY  01, 1993  08h 15m 03.07± 2.13s
   40.172 N ±22.1km   29.125 E ±10.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.5 (ISK).

YLV     0.44  26 iPg   15 11.80   -0.2
KCT     0.59 278 iPg   15 18.30    3.2X
                 eSg   15 25.30
HRT     0.77  32 iPg   15 18.40    0.3
EYL     0.88  63 ePg   15 20.00   -0.1
                 eSg   15 32.40
BNT     0.94 282 ePg   15 21.00    0.0
      S.D. = 0.4  on   4 of   5 obs.
-----------------------------------------
    MAY  01, 1993  08h 18m 48.03± 0.38s
   26.601 S ± 4.1km   70.938 W ± 8.5km
   DEPTH =  52.2km  (  4 depth phases)
   4.3mb (  4 obs.)
 NEAR COAST OF NORTHERN CHILE      (122)

ANT     2.92   9 iP+   19 32.70   -0.4
                 iS    20 06.20
FSA     4.45  84 ePc   19 59.20    4.6X
RTLL    5.18 156 iPd   20 05.00   -0.1
                 S     21 01.00
RTBS    5.21 166 ePc   20 05.80    0.5
RTCB    5.22 159 iPc   20 05.50   -0.1
                 S     21 01.20
SLA     5.25  70 ePc   20 11.80    5.6X
                 e     20 14.00
ZON     5.31 159 iPd   20 07.40    0.6
RTPR    5.36 134 iPc   20 07.50    0.0
CFA     5.52 155 iPd   20 09.20   -0.5
                 S     21 09.00
MDZ     6.52 164 iP    20 22.50   -1.3
                 i     20 33.60
                 i(S)  21 50.00
PEL     6.52 178 iP+   20 19.70   -4.1X
RFA     8.42 166 ePd   20 45.40   -4.7X
ARE    10.10 357 eP    21 11.00   -2.5
                 eS    23 01.00
CNCB   10.12  16 P     21 14.00    0.0
LPB    10.36  15 P     21 17.20    0.0
ZOBO   10.61  15 iPd   21 19.80   -0.9
                 LR    24 44.00
SIV    13.99  43 P     22 14.40    9.2X
NNA    15.56 338 eP    22 27.00    1.3
        0.5s     10.56nm          4.3mb
                 eS    25 14.00
PPD    18.45  80 eP    23 03.60    1.9
CACB   22.61  83 ePc   23 45.20   -0.4
                 e     23 46.40    4kmX
                 e     23 48.80
                 i     23 57.20
                 e     23 59.20
                 e     24 05.40
BAO    23.98  68 eP    23 58.90   -0.1
                 i     24 11.20   49km
                 i     24 19.50
SPA    63.56 180 iPc   29 14.80   -0.5
        1.0s     21.00nm          5.2mb
KIC    71.93  73 P     30 08.60    0.4
PV08   73.82 330 (P)   30 20.35    1.1
SRU    75.11 329 (P)   30 27.04    0.6
                 epP   30 40.61   47km
MSU    75.40 328 iPd   30 29.43    1.2
                 epP   30 45.47   58km
BW06   77.66 332 eP    30 40.00   -0.8
        1.1s      3.97nm          4.3mb
ULM    79.64 344 eP    30 54.00    2.9X
LCCM   81.12 332 eP    31 00.50    1.3
                 e     31 16.10   55km
YKA    95.38 341 eP    32 07.00   -0.3
        0.8s      0.60nm          4.1mb
WB2   127.63 210 iPKPc 37 49.00   -0.7
        0.5s      3.90nm
WRA   127.64 210 PKP   37 49.30   -0.4
        0.9s      1.40nm
LEM   146.74 177 iPKPc 38 27.50    2.6X
GBA   147.71 107 PKP   38 29.90    3.7X
        0.9s      2.50nm
     S.D. = 1.0  on  26 of  34 obs.
-----------------------------------------
    MAY  01, 1993  08h 52m 55.24± 0.36s
    3.771 S ± 3.2km  131.378 E ± 4.0km
    DEPTH =  23.8 ±  2.6 km
    5.4mb ( 40 obs.)  4.9Msz ( 32 obs.)
 IRIAN JAYA REGION, INDONESIA      (196)
      Mw 5.3 (HRV).
      CENTROID, MOMENT TENSOR      (HRV)
      Data Used: GDSN
      L.P.B.: 20S, 24C
      Centroid Location:
      Origin Time        08:52:59.1 0.7
      Lat  3.78S 0.08 Lon 131.69E 0.08
      Dep  29.1 5.0 Half-duration  1.1
      Moment Tensor;   Scale 10**16 Nm
        Mrr= 6.07 0.35  Mtt=-0.94 0.46
        Mff=-5.12 0.61  Mrt=-7.70 1.78
        Mrf= 5.53 1.64  Mtf= 1.55 0.39
       Principal Axes:
        T  Val= 11.94  Plg=58  Azm=206
        N       -1.78      12       316
        P      -10.15      29        53
      Best Double Couple:Mo=1.1*10**17
       NP1:Strike=174 Dip=19 Slip= 129
       NP2:       313     75        78

TLE     2.30 144 iPc    53 34.50    2.1
                 iS    54 02.00
AAI     3.18 271 ePd    53 47.50    2.6
SLKI    4.18 181 iPc    54 03.50    4.3X
TNE     6.08 318 eP     54 23.20   -2.8
MTN     9.02 182 iPc    55 04.80   -2.3
                 eS    56 44.00
KUG     9.98 230 eP     55 21.00    0.6
                 S     56 01.50
MKS    11.96 263 iPc    55 52.60    5.3X
KNA    12.18 192 iPd    55 46.00   -4.3X
        0.3s     95.00nm          6.5mb X
                 iS    57 47.70
DAV    12.24 332 eP     55 52.00    0.9
WSI    12.47 241 e(P)   55 55.20    1.0
TSM    15.69 301 eP     56 35.00   -1.6
PLP    16.15 337 ePd    56 49.00    6.6X
KHKI   16.33 253 ePc    56 46.20    1.5
                 e     01 10.00
WRA    16.33 170 P      56 40.20   -4.6X
WB2    16.33 170 iPc    56 39.20   -5.6X
                 eS    58 50.30
PMG    16.64 110 eP     56 47.00   -1.7
PPR    18.44 317 ePd    57 13.00    2.0
TRT    19.05 257 ePd    57 17.80   -0.7
        0.9s     12.00nm          4.1mb X
SJI    19.90 258 iPc    57 30.80    2.6X
                 e     58 57.00
ASPA   19.93 173 iPc    57 27.30   -1.2
        0.6s    139.70nm          5.5mb
                 e     59 28.10
                 eS    01 19.70
PGP    20.04 329 iPc    57 29.80    0.1
MBL    20.61 212 iPd    57 33.30   -2.2
        0.8s    138.00nm          5.4mb
                 e     59 53.00
RAB    20.74  92 iP     57 36.00   -0.9
                 iS    01 28.00
CTA    21.76 139 iPc+   57 47.20    0.0
        0.9s     31.51nm          4.7mb
                 id    57 52.50
                 i     58 14.00
                 i     59 48.00
                 eS    01 48.00
                 e     03 41.00
GUA    21.82  38 eP     57 48.30    0.4
        0.9s    154.62nm          5.4mb
GUMO   21.83  38 eP     57 48.50    0.5
        1.3s    199.60nm          5.4mb
     Z  20s      0.65um           4.0Msz
                 e     58 45.00
                 eS    01 50.30
PJG    21.83  38 eP     57 46.80   -1.2
BCP    22.71 332 eP     57 57.20    0.3
BAG    22.72 332 ePc+   57 56.70   -0.2
```

01d 08h

			eS	02	04.00					e	04	36.50			BSF	115.46	322	ePKP	11	36.60	-0.5
WARB	22.74	191	iPc	57	57.30	0.3		GBA	56.23	289	Pc	02	35.60	-0.7		0.9s		4.90nm				
	0.4s	34.00nm			5.2mb				0.9s	13.00nm			5.0mb		HAU	115.66	322	ePKP	11	37.00	-0.4
CVP	23.33	336	ePd	58	02.20	-0.5		IRK	60.36	341	ePc+	03	04.00	-0.7		Z 23s		0.13um			4.5MszX
NANU	24.18	218	iPd	58	10.20	-0.7			2.0s	0.17nm			2.8mb X		RSSD	116.95	42	ePKPc	11	39.86	-0.4
	0.8s	136.00nm			5.6mb			Z	16s	0.30um			4.5MszX			Z 21s		0.23um			4.8Msz
QLP	25.81	153	eP	58	26.00	-0.4				LR	31	13.00						SP	22	38.58	
MEEK	25.81	207	eP	58	25.00	-1.5		POO	60.81	294	iPc	03	07.50	-0.8	LOR	117.50	322	ePKP	11	40.70	-0.2
FORT	27.05	186	eP	58	37.00	-0.7		NDI	61.17	306	iPc	03	09.00	-1.6		1.2s		0.15nm			
KGM	28.63	281	ePd	58	53.80	1.5			0.6s	33.33nm			5.6mb			Z 24s		0.15um			4.5MszX
COOL	28.64	199	iPc	58	50.70	-1.6		CSY	64.10	189	iPd	03	28.80	-0.6	LBF	117.55	322	ePKP	11	40.80	-0.2
	0.8s	79.00nm			5.5mb				0.1s	7.20nm			5.8mb		GOL	117.63	47	iPKPc	11	42.41	0.7
MRWA	29.22	208	eP	58	56.00	-1.4		YAK	65.61	359	iPc	03	38.00	-1.1		Z 18s		0.21um			4.8Msz
	0.7s	48.00nm			5.4mb				0.9s	102.00nm			6.0mb					e	11	51.19	
STK	29.56	162	eP	58	59.80	-0.7		Z	19s	0.80um			4.9Msz		SSF	117.81	322	ePKP	11	41.40	-0.1
	0.8s	21.10nm			5.0mb			N	19s	0.40um						1.0s		5.60nm			
		iPP	01	01.10						eS	12	23.00			ALQ	118.27	52	iPKPc	11	43.82	0.8
		iPcS	03	52.70				QUE	70.11	304	eP	04	08.50	0.3		Z 18s		0.09um			4.4Msz
		eS	04	32.90				ADK	70.73	31	ePd	04	10.71	-0.6	FRB	118.41	10	ePKP	11	41.50	-0.5
BAL	30.07	206	eP	59	03.50	-1.6			0.9s	35.42nm			5.5mb		TCF	118.95	322	ePKP	11	43.80	0.1
KLB	30.50	203	eP	59	07.50	-1.3		HON	73.44	67	P	04	40.00	12.1X		1.1s		10.25nm			
	0.9s	47.00nm			5.3mb			Z	20s	0.73um			5.0Msz		ULM	119.01	33	ePKP	11	46.00	2.4X
IPM	31.44	285	ePc	59	17.50	0.2		MAIO	77.75	308	iPc	04	53.20	0.8	CAF	119.68	321	ePKP	11	45.70	0.6
MUN	31.47	205	eP	59	16.00	-1.4			0.9s	15.77nm			5.0mb			0.8s		3.10nm			
	0.9s	24.00nm			5.1mb					e	06	54.00			MFF	120.23	323	ePKP	11	45.90	-0.2
ADE	31.78	169	iPc	59	20.50	0.4		MAW	78.44	201	iPc	04	56.10	0.7		1.0s		7.60nm			
NWAO	31.88	203	eP	59	20.00	-1.0			0.9s	30.00nm			5.3mb		LPO	120.34	321	ePKP	11	47.00	0.6
ARMA	32.69	146	eP	59	27.00	-1.2		SVW	85.15	28	eP	05	31.50	0.9		1.1s		10.25nm			
	0.9s	17.00nm			5.0mb				0.9s	13.42nm			5.2mb		EPF	121.66	319	ePKP	11	49.00	0.0
BWA	34.37	155	iPc	59	43.90	1.3		TTA	85.51	26	iPc	05	32.88	0.5		1.1s		5.60nm			
		epP	59	52.20	28kmX				0.9s	18.07nm			5.3mb		MIAR	128.30	48	PKP	12	10.00	8.0X
		iPcP	01	45.00				SPA	86.25	180	iPc	05	36.20	0.1		Z 18s		0.49um			5.2Msz
PCT	34.90	302	iPc	59	48.10	0.8			1.0s	30.00nm			5.5mb		SLM	128.68	42	PKP	12	10.00	7.4X
RIV	35.13	151	eP	59	50.00	0.9		IMA	87.36	23	eP	05	41.72	0.2		Z 18s		0.27um			5.0Msz
CAN	35.38	155	iPc	59	51.60	0.3			0.8s	3.59nm			4.7mb		FVM	128.89	43	PKP	12	10.00	7.0X
		ipP	00	00.20	29kmX			PMR	88.30	28	P	06	00.00	14.2X		Z 18s		0.57um			5.3Msz
		iPcP	01	52.90					Z 21s	0.36um			4.8Msz		RSNY	133.43	25	PKP	12	20.00	8.6X
NNT	35.39	298	iPd	59	52.00	0.5		FBA	89.50	25	eP	05	51.10	-0.4		Z 21s		0.25um			4.9Msz
CNB	35.53	154	eP	59	53.20	0.6			1.0s	1.60nm			4.3mb X		CBM	133.81	18	PKP	12	20.00	8.0X
	1.2s	43.00nm			5.2mb			NAI	94.48	268	iP	06	20.00	4.2X		Z 20s		0.20um			4.8Msz
SSE	36.01	345	Pd	59	55.50	-1.0			Z 20s	0.35um			4.8Msz		MYNC	134.72	42	ePKP	12	14.17	-0.1
	0.8s	26.00nm			5.2mb			SIT	94.94	33	P	06	30.00	13.3X		Z 18s		0.30um			5.1Msz
	Z 20s	0.90um			4.5Msz				Z 18s	0.60um			5.1Msz		GOGA	136.12	44	PKP	12	30.00	13.1X
		S	05	32.00				INK	95.37	22	eP	06	19.00	0.5		Z 18s		0.32um			5.1Msz
		sS	05	48.00					1.5s	15.00nm			5.2mb		KIC	136.22	275	PKP	12	17.56	-0.1
TOO	36.04	161	iPc	59	58.10	1.3		OBN	95.81	325	eP	06	19.00	-1.7	HRV	136.35	25	PKP	12	30.00	13.0X
	0.9s	115.00nm			5.8mb				1.0s	14.00nm			5.4mb			Z 21s		0.22um			4.9Msz
		iPP	01	59.30					Z 20s	0.20um			4.6Msz		TIC	136.50	276	PKP	12	18.46	0.3
LOE	36.04	307	iPc	59	57.50	0.5		NVL	95.82	197	eP	06	22.00	1.4	LIC	136.51	275	PKP	12	17.42	-0.7
NST	36.46	303	eP	00	00.50	0.0			Z 17s	1.00um			5.4MszX			Z 20s		0.09um			4.5Msz
KHT	37.35	300	iPc	00	09.80	1.8			E 17s	0.60um					CEH	137.43	37	PKP	12	30.00	10.7X
BDT	38.18	304	eP	00	10.20	-4.7X		MBC	98.18	13	eP	06	30.50	-0.6		Z 21s		0.52um			5.2Msz
	0.9s	78.70nm			5.5mb				1.0s	5.00nm			5.0mb		FSA	145.87	151	iPKPd	12	36.70	2.3X
DZM	38.56	121	iPc	00	18.00	-0.2		KAF	100.35	333	iPdiff	06	39.40	-1.7	MBO	147.05	291	iPKPd	12	41.60	5.0X
CHG	39.03	306	iPc	00	23.30	1.2			0.8s	4.30nm			5.0mb		NNA	147.87	120	ePKP	12	41.50	3.5X
	1.0s	110.75nm			5.5mb			BUL	100.65	249	ePdiff	06	44.30	0.6		1.2s		39.06nm			
KMI	39.98	317	Pc+	00	31.00	0.9		NUR	101.47	331	ePdiff	06	41.90	-4.2X	ARE	149.75	132	ePKP	12	48.00	6.8X
	2.0s	180.00nm			5.4mb			WDC	104.65	49	Pdiff	07	10.00	9.2X	CNCB	152.00	137	PKPc	12	46.60	1.7
	Z 20s	1.20um			4.7Msz				Z 21s	0.57um			5.1Msz					i	14	54.70	
		pP	00	40.00	30kmX			SAO	106.00	53	PKP	11	30.00	10.7X	LPB	152.11	137	PKP	12	46.30	1.4
		eS	06	49.00					Z 18s	0.69um			5.2Msz					e	14	55.00	
MAT	40.61	8	eP	00	32.00	-2.9		CMB	106.66	52	PKP	11	30.00	9.4X	ZOBO	152.28	136	PKP	12	46.20	0.9
	0.8s	14.93nm			4.8mb				Z 19s	0.59um			5.2Msz			1.0s		40.00nm			
	Z 20s	1.06um			4.7Msz			HFS	106.77	332	ePdiff	07	07.90	-1.9				LR	08	16.00	
		eS	06	49.00					1.0s	6.80nm			5.6mb		VAO	153.34	183	ePKP	12	55.30	9.3X
TAU	41.47	162	eP	00	43.00	1.1			Z 19s	0.20um			4.7Msz		PPD	154.22	174	ePKP	12	48.40	1.2
BJI	45.78	344	eP	01	16.50	-0.3				LR	53	28.00						e	13	09.90	
	1.0s	110.00nm			5.7mb			NB2	107.52	334	Pdiff	07	12.10	-1.1	SIV	156.82	148	PKP	13	06.20	15.4X
	Z 20s	0.60um			4.5Msz				0.9s	2.30nm			5.3mb					i	13	35.90	
		ePP	03	17.50				ISA	108.53	54	PKP	11	30.00	5.8X	BAO	160.71	182	ePKP	12	56.00	0.7
		eS	07	58.00					Z 18s	0.70um			5.3Msz					e	13	37.20	
		eSS	11	18.00				GEC2	110.81	321	PKP	11	28.10	-0.1		S.D. = 1.1		on 118 of 152 obs.			
LZH	47.28	329	iPc	01	29.50	0.6			1.2s	1.98nm											
	1.2s	114.00nm			5.8mb					e	11	33.50			• MAY 01, 1993 09h 04m 57.05± 2.31s						
	Z 18s	0.64um			4.6Msz					e	11	38.00			18.560 S ±10.4km 177.720 W ±12.0km						
	E 12s	0.27um						VBY	110.82	318	ePKP	11	28.50	0.4	DEPTH = 586.6 ± 30.1 km						
		pP	01	41.00	41kmX			LJU	111.15	318	e(PKP)	11	29.00	0.2	4.7mb (9 obs.)						
		sP	01	45.00				BGMT	111.21	43	ePKP	11	28.90	-0.3	FIJI ISLANDS REGION						(181)
		PcP	03	00.00				CEY	111.31	318	e(PKP)	11	29.00	-0.1							
		eS	08	20.00				DUG	112.01	48	PKP	11	40.00	9.2X	DZM	15.26	254	iPc	08	08.90	1.0
GUN	53.94	309	P	02	19.40	-0.6			Z 19s	0.38um			5.0Msz		URZ	20.14	192	P	08	52.60	-1.3
PKI	54.15	308	P	02	20.40	-1.1		MSU	112.90	50	ePKP	11	33.61	1.0	NOZ	20.32	190	eP	08	56.90	1.3
KKN	54.36	308	P	02	22.00	-0.9		SRU	114.00	49	ePKP	11	35.31	0.6	THZ	24.47	197	P	09	33.50	0.5
DMN	54.41	308	P	02	22.60	-0.7		PV09	115.21	49	ePKP	11	37.88	0.7	LTZ	25.60	197	P	09	41.60	-1.2
GKN	54.96	308	P	02	26.40	-0.8		PV10	115.32	49	ePKP	11	38.15	0.8	WVZ	26.32	199	eP	09	49.30	0.2
HYB	56.20	294	ePc	02	34.00	-2.2		TUC	115.43	56	PKP	11	50.00	12.5X	BRS	28.49	247	iPd	10	08.20	0.0
	1.0s	130.00nm			5.9mb				Z 18s	0.60um			5.2Msz		LRCZ	28.55	199	P	10	07.60	-1.0

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MSCZ    28.55 199 P      10 08.80   0.3
MHZ     28.56 199 P      10 08.20  -0.5
SBCZ    28.58 199 P      10 08.30  -0.5
LSCZ    28.58 199 P      10 08.60  -0.2
CMCZ    28.64 199 P      10 09.40   0.0
TLC     28.75 200 P      10 10.30   0.0
ARMA    30.19 241 iPc    10 23.70   0.9
        0.2s     5.00nm          4.8mb
CNB     33.56 234 iPd    10 52.30   1.3
        0.6s    47.00nm          5.3mb
CAN     33.84 234 iPc    10 54.20   0.9
BWA     33.98 235 iPc    10 53.30  -1.3
CTA     33.99 261 iP     10 54.50  -0.2
        0.9s     8.40nm          4.4mb
OLP     35.92 250 iPc    11 10.70   0.2
TOO     37.28 232 iPc    11 22.70   1.1
        0.8s    72.00nm          5.3mb
STK     38.90 242 iPc    11 35.90   1.1
        0.6s    15.60nm          4.7mb
WB2     45.15 260 iPc    12 23.10  -1.1
        0.5s    17.10nm          4.8mb
                  eS     18 19.60
WRA     45.16 260 P      12 23.50  -0.8
        1.0s     1.60nm          3.5mb X
GUA     48.73 308 eP     12 50.70  -0.6
GUMO    48.79 308 eP     12 51.00  -0.8
PJG     48.79 308 eP     12 51.20  -0.6
NANU    62.17 254 iPc    14 24.50   0.2
MAT     68.82 323 eP     15 05.00  -0.2
        0.8s    11.19nm          4.4mb
CP2     82.13  12 eP     16 18.10   0.1
BALM    84.25  16 iPc    16 29.37   0.9
FBA     86.30  12 eP     16 38.11   0.1
        0.6s     5.22nm          4.4mb
YKA     94.65  25 eP     17 17.20   0.7
        0.6s     0.50nm          3.9mb
EKA    143.06   5 PKPc   23 24.20  -1.7
        1.2s     6.10nm
KSP    145.91 344 iPKPd  23 33.90   3.0X
CLL    146.24 348 iPKP   23 34.40   3.1X
        0.9s    26.00nm
BRG    146.45 347 iPKP   23 35.30   3.6X
        0.6s    12.00nm
                   i     23 37.50
MOX    147.13 349 ePKP   23 37.30   4.5X
        1.5s    13.00nm
PRU    147.14 345 PKPd   23 37.00   4.2X
                   e     23 40.50
ENN    147.74 356 ePKP   23 42.00   8.3X
        0.6s     5.20nm
GRF    148.12 349 iPKPd  23 40.40   6.0X
     Z  19s     0.10um          4.6Msz
                   e     23 44.90
KHC    148.17 346 PKP    23 40.40   5.8X
                   e     23 45.20
GEC2   148.41 346 PKP    23 40.50   5.5X
        0.7s     4.49nm
                   e     23 46.70
WLF    148.81 355 iPKPc  23 42.28   6.9X
FLN    149.79   4 ePKP   23 43.50   6.6X
        0.6s     6.60nm
CDF    149.95 353 ePKP   23 44.10   6.8X
        1.0s     8.20nm
LDF    149.98   3 ePKP   23 43.80   6.6X
        1.0s    11.20nm
GRR    150.14   4 ePKP   23 44.40   6.9X
        0.6s     6.20nm
KBA    150.14 345 iPKPc  23 44.10   6.3X
        0.7s     4.00nm
                   i     23 53.80
WTTA   150.36 347 iPKPc  23 44.90   6.8X
        0.6s    10.90nm
HAU    150.44 354 ePKP   23 45.20   7.2X
        0.6s     4.25nm
LPF    150.48   5 ePKP   23 45.30   7.3X
        0.7s     8.95nm
BSF    150.57 354 ePKP   23 45.40   7.1X
        0.6s     3.50nm
VOY    150.97 343 i(PKP) 23 46.00   7.0X
VBY    151.05 341 ePKP   23 40.50   1.6
                  ePKPbc 23 46.70
LOR    151.34 358 ePKP   23 47.30   7.9X
        0.7s     5.20nm
SSF    151.56 358 ePKP   23 47.90   8.3X
        0.9s     7.85nm
LBF    151.62 358 ePKP   23 47.90   8.1X
        0.9s     4.40nm

MFF    151.96   4 PKP    23 48.50   8.3X
        0.6s     2.80nm
TCF    152.35   0 ePKP   23 49.50   8.7X
        0.8s     2.30nm
LSF    152.38   1 ePKP   23 49.30   8.4X
        0.8s     7.00nm
      S.D. = 0.9  on  35 of  61 obs.
-------------------------------------
*  MAY  01, 1993  09h 36m 13.04± 0.99s
    6.758 N ±21.5km   73.042 W ±15.5km
    DEPTH = 169.6 ± 11.8 km
    3.5mb (  1 obs.)
 NORTHERN COLOMBIA                ( 99)

BMG     0.31 354 iPd    36 36.50  -1.0
FUO     1.46 208 iPc    36 45.00   0.6
BOG     2.35 206 iPd    36 57.00   2.8X
                 iS     37 28.00
SDV     3.19  48 iPnd   37 05.30   1.0
                 iSn    37 43.00
TOV     4.40  47 ePn    37 20.80   1.0
                 eSn    38 10.50
CEOS    5.18  64 iPc    37 29.50  -0.5
                 iS     38 27.60
GUAC    6.65  59 iPc    37 49.30  -0.3
                 iS     39 02.40
GUAN    7.98  66 iP     38 06.60  -0.6
YKA    63.35 340 eP     46 25.80  -0.1
        0.6s     0.40nm          3.5mb
      S.D. = 1.0  on   8 of   9 obs.
-------------------------------------
%  MAY  01, 1993  09h 41m 50.86± 1.37s
    27.751 S ±13.0km   67.742 W ±22.0km
    DEPTH =  10.0km  (geophysicist)
 CATAMARCA PROVINCE, ARGENTINA   (130)

FSA     2.27  43 iP     42 28.90   0.0
RTPR    2.76 157 ePd    42 36.10   0.2
RTLL    3.62 190 ePd    42 48.20   0.0
                 S      43 30.70
RTCB    3.83 194 ePc    42 51.50   0.2
                 S      43 33.00
CFA     3.87 186 eP     42 51.20  -0.5
                 S      43 35.50
RTBS    4.17 200 ePc    42 56.10   0.2
      S.D. = 0.3  on   6 of   6 obs.
-------------------------------------
%  MAY  01, 1993  10h 25m 25.75± 0.91s
    40.766 N ± 8.7km   23.166 E ± 6.4km
    DEPTH =  10.0km  (geophysicist)
 GREECE                           (364)
      ML 1.5 (THE).

SOH     0.15  69 ePg    25 29.14  -0.2
                 eSg    25 31.50
THE     0.20 229 ePg    25 30.18   0.0
                 iSg    25 32.82
KNT     0.44 333 ePg    25 34.62  -0.2
                 eSg    25 40.02
SRS     0.48  42 ePg    25 35.74   0.3
                 eSg    25 42.42
GRG     0.61 288 ePg    25 38.18   0.1
                 eSg    25 46.58
      S.D. = 0.3  on   5 of   5 obs.
-------------------------------------
?  MAY  01, 1993  10h 27m 48.10± 1.06s
    7.024 S ±11.8km  130.474 E ±17.2km
    DEPTH =  74.9 ± 29.0 km
 TANIMBAR ISLANDS REG., INDONESIA(281)

SLKI    1.25 139 iPd    28 10.50   0.2
TLE     2.65  59 iPd    28 29.40   0.0
                 iS     28 53.20
AAI     4.02 325 eP     28 48.50   0.0
MTN     5.82 174 eP     29 18.00   4.2X
                 eS     30 22.00
KNA     8.83 191 eP     29 57.70   2.4X
                 eS     31 32.00
WB2    13.38 164 iPd    30 55.20  -1.1
                 eS     33 17.90
ASPA   16.87 169 eP     31 42.00   1.0
                 eS     34 41.00
      S.D. = 1.5  on   5 of   7 obs.
-------------------------------------
    MAY  01, 1993  11h 07m 48 15± 1.06s
    43.271 N ± 5.5km   13.047 E ±11.0km
    DEPTH =  10.0km  (geophysicist)

 CENTRAL ITALY                    (381)

ARV     0.24 341 P      07 53.90   0.6
                 eSg    07 57.00
ASS     0.35 235 P      07 56.40   1.1
                 eSg    08 04.10
RSM     0.79 327 P      08 04.00   0.6
                 eSg    08 15.00
CRE     0.87 295 P      08 04.00  -1.0
                 eSn    08 17.50
MNS     0.93 197 P      08 05.70  -0.2
                 eSg    08 21.00
AQU     0.95 164 P      08 06.00  -0.3
                 eSg    08 21.50
SFI     1.08 307 P      08 08.00  -0.5
PGD     1.14 303 P      08 09.30  -0.3
VBY     2.74  35 e(Pn)  08 58.40  25.5X
      S.D. = 0.8  on   8 of   9 obs.
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%  MAY  01, 1993  11h 53m 03.33± 0.79s
    40.778 N ± 6.9km   23.051 E ± 5.9km
    DEPTH =  10.0km  (geophysicist)
 GREECE                           (364)
      ML 1.7 (THE).

THE     0.16 204 ePg    53 06.96   0.0
                 eSg    53 09.36
SOH     0.23  79 ePg    53 08.56   0.2
                 eSg    53 11.44
KNT     0.40 343 iPg    53 11.64   0.1
                 eSg    53 17.28
GRG     0.52 290 ePg    53 13.92   0.0
                 eSg    53 22.68
SRS     0.53  50 ePg    53 13.88  -0.2
                 eSg    53 21.24
      S.D. = 0.2  on   5 of   5 obs.
-------------------------------------
    MAY  01, 1993  12h 01m 27.44± 0.44s
    65.397 N ±11.3km   38.402 W ± 6.2km
    DEPTH =  10.0km  (geophysicist)
    4.0mb ( 13 obs.)  3.1Msz (  1 obs.)
 EASTERN GREENLAND                (636)

DAG    12.95  20 eP     04 32.10  -1.8
FRB    12.99 277 eP     04 32.50  -2.0
JAQ    21.78 256 eP     06 22.00   1.2
APO    23.67  77 eP     06 39.20  -0.1
        0.4s     0.70nm          3.5mb
FCC    26.09 282 eP     07 10.00   7.6X
MBC    26.17 328 eP     07 03.50   0.5
        1.0s     6.00nm          4.2mb
LOR    28.84 108 eP     07 27.50   0.0
        1.1s     3.90nm          4.1mb
     Z  20s     0.05um          3.1Msz
SSF    28.86 109 eP     07 29.10   1.3
        1.1s     4.15nm          4.1mb
LBF    29.11 108 eP     07 29.50  -0.6
        1.0s     4.00nm          4.2mb
MOX    29.36  96 eP     07 32.80   0.6
BRG    30.16  93 e(P)   07 39.50   0.2
PRU    31.08  94 Pd     07 47.60   0.2
KSP    31.16  91 ePc    07 49.00   0.8
KHC    31.34  96 eP     07 50.50   0.7
GEC2   31.61  96 P      07 53.00   0.8
        1.1s     1.32nm          3.8mb
                   e     07 55.80
YKA    31.71 301 eP     07 51.10  -1.8
        0.6s     0.90nm          3.9mb
ULM    32.77 271 eP     08 07.00   4.8X
INK    33.99 319 eP     08 16.00   3.4X
PTJ    34.88  97 eP     08 20.00  -0.6
OBN    36.35  70 iPc    08 33.00   0.2
        1.0s    18.00nm          4.9mb
FBA    40.35 322 eP     09 06.66   0.5
        0.8s     2.38nm          3.9mb
IMA    40.87 326 (P)    09 11.80   1.3
        1.1s     3.13nm          3.9mb
RSSD   41.03 272 (P)    09 11.98  -0.2
        0.5s     1.22nm          3.9mb
BW06   44.43 276 (P)    09 42.79   2.8
        1.0s     2.17nm          4.0mb
SVW    45.50 323 eP     09 48.10   0.0
        1.0s    10.25nm          4.7mb
LTX    53.45 261 eP     10 49.80   0.2
TIC    63.15 142 P      11 55.30  -2.2
KIC    63.49 142 P      11 57.60  -2.1
WRA   134.32  10 Pdiff  17 39.20  -7.2X
```

01d 12h

0.8s 0.90nm
S.D. = 1.3 on 25 of 29 obs.

MAY 01, 1993 13h 03m 57.62± 0.50s
40.820 N ± 5.4km 21.564 E ± 4.3km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 2.5 (THE).

FNA	0.15	256	iPg	04	00.98	-0.1
			eSg	04	03.50	
OHR	0.65	297	iPg	04	09.70	-0.9
	0.4s	124.00nm				
			iSg	04	20.90	
			Lg	04	23.00	
GRG	0.65	78	iPg	04	09.98	-0.7
			eSg	04	19.34	
VAY	0.91	56	iPn	04	14.70	-0.3
LIT	1.01	135	iPg	04	15.98	-0.7
			eSg	04	30.14	
KNT	1.07	71	ePg	04	18.46	0.8
			eSg	04	33.02	
SKO	1.15	355	iPn	04	20.00	0.8
	0.7s	77.00nm				
			iSg	04	37.00	
			Lg	04	39.70	
SOH	1.36	89	ePb	04	22.86	0.2
IGT	1.60	217	ePb	04	26.46	0.5
PAIG	1.85	118	ePb	04	29.18	-0.4
AGG	1.89	162	ePb	04	31.10	0.8

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

MAY 01, 1993 13h 45m 45.25± 0.94s
24.471 N ±12.2km 95.797 E ± 7.6km
DEPTH = 39.6 ± 12.6 km
4.0mb (4 obs.)
MYANMAR (296)

KMI	6.34	83	ePn	47	19.00	0.0
			Pg	47	26.00	
			eSg	48	41.50	
CHG	6.34	152	ePn	47	22.70	3.9X
			ePg	47	47.80	
			eSg	49	17.50	
BDT	7.79	157	eP	47	39.20	0.2
GUN	9.54	293	P	48	03.00	-0.6
PKI	9.84	291	P	48	07.60	0.0
	0.4s	14.00nm				5.5mb X
KKN	10.01	292	P	48	10.00	0.1
	0.4s	22.00nm				5.7mb X
DMN	10.11	290	P	48	11.60	0.3
	0.6s	27.00nm				5.6mb X
HYB	17.56	250	eP	49	59.50	10.7X
GBA	20.42	241	P	50	32.00	10.2X
WRA	57.94	136	P	55	35.70	-0.5
	0.6s	0.60nm				3.9mb
GEC2	66.92	315	P	56	32.30	-3.5X
	0.6s	0.44nm				3.7mb
			e	56	42.20	
LPG	72.33	312	eP	57	09.90	0.6
	0.5s	1.45nm				4.2mb
LPL	72.34	312	eP	57	09.10	-0.2
	0.6s	1.55nm				4.2mb

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

• MAY 01, 1993 13h 50m 29.43± 2.14s
15.815 N ± 9.0km 61.163 W ±18.2km
DEPTH = 104.1 ± 24.4 km
LEEWARD ISLANDS (92)

DOG	0.49	296	eP	50	45.85	0.0
DEG	0.51	11	eP	50	46.00	0.0
PAG	0.54	293	eP	50	46.22	0.0
			S	50	57.80	
FDF	1.08	179	iPd	50	51.26	-0.1
			S	51	06.80	
CRM	1.08	167	iPd	50	51.18	-0.2
			S	51	06.60	
MVM	1.28	168	eP	50	53.60	0.0
			S	51	01.10	
BIM	1.29	176	iPd	50	54.07	0.3
			S	51	02.40	
MGH	1.35	312	eP	50	54.50	0.0
BPA	1.39	332	eP	50	55.00	0.0
			S	51	03.00	

S.D. = 0.1 on 9 of 9 obs.

• MAY 01, 1993 15h 09m 26.13± 1.80s
23.657 S ±13.8km 178.957 E ±12 3km
DEPTH = 633.2 ± 24.4 km
4.5mb (6 obs.)
SOUTH OF FIJI ISLANDS (171)

DZM	11.64	275	iPc	12	01.90	0.4
URZ	14.64	186	eP	12	28.80	-1.3
NOZ	14.94	183	P	12	32.50	-0.4
MNG	17.16	189	P	12	53.10	-0.9
QRZ	17.95	196	eP	13	02.80	1.5
THZ	18.75	194	P	13	09.90	1.2
DSZ	19.00	197	P	13	11.90	0.9
KHZ	19.25	192	eP	13	13.30	0.2
LTZ	19.87	195	P	13	17.90	-0.9
WVZ	20.53	197	P	13	25.40	0.6
LRCZ	22.75	198	P	13	44.00	-1.0
MHZ	22.76	198	P	13	44.60	-0.4
SBCZ	22.78	198	P	13	44.60	-0.5
ARMA	25.22	249	eP	14	08.00	1.2
	0.6s	7.00nm				4.5mb
CNB	28.15	239	iPc	14	33.60	1.4
	0.9s	17.00nm				4.7mb
CAN	28.44	239	eP	14	35.40	0.8
BWA	28.67	241	eP	14	35.00	-1.6
CTA	30.52	270	iPd	14	51.50	-0.8
TOO	31.78	236	eP	15	03.70	0.9
	1.0s	25.00nm				4.8mb
STK	33.93	248	eP	15	21.10	0.4
	0.9s	2.20nm				3.8mb
WB2	41.46	266	eP	16	20.20	-1.6
	0.2s	12.30nm				5.0mb
WRA	41.47	266	P	16	21.00	-0.9
	0.9s	2.50nm				3.7mb
TUC	87.13	53	iPc	21	08.29	0.5
SRU	90.73	47	iPc	21	24.54	0.2
SOB1	129.17	125	ePKP	27	26.10	0.0
NB2	141.69	350	PKP	27	43.00	-5.0X
	0.9s	2.90nm				
HFS	142.12	348	ePKP	27	43.30	-5.4X
	0.3s	1.00nm				
EKA	148.32	2	PKP	28	03.00	4.0X
	0.9s	6.70nm				
KSP	149.71	338	iPKPc	28	07.80	6.5X
CLL	150.34	342	iPKP	28	08.80	6.6X
	1.0s	25.00nm				
BRG	150.45	341	iPKPc	28	08.80	6.4X
	0.9s	20.00nm				
PRU	151.03	339	ePKP	28	10.10	6.8X
	0.9s	5.90nm				
MOX	151.32	343	ePKP	28	11.00	7.3X
KHC	152.09	339	ePKP	28	13.30	8.4X
			e	28	25.00	
GRF	152.29	343	ePKP	28	13.80	8.7X
			e	28	27.20	
GEC2	152.29	339	PKP	28	13.40	8.1X
	0.9s	2.42nm				
			e	28	15.80	
			e	28	25.90	

S.D. = 1.0 on 25 of 36 obs.

MAY 01, 1993 17h 12m 11.66± 0.87s
3.018 S ± 4.1km 134.363 E ± 4.6km
DEPTH = 40.1 ± 8.5 km
4.9mb (23 obs.) 4.5Msz (3 obs.)
IRIAN JAYA REGION, INDONESIA (196)

TLE	3.06	212	ePc	12	59.50	0.8
TNE	7.99	298	eP	14	08.20	0.1
MNDI	9.77	109	eP	14	33.00	-0.1
MTN	10.28	198	iPd	14	36.00	-3.7X
			eS	16	30.00	
KUG	12.82	236	eP	15	13.00	-1.0
DAV	13.33	319	eP	15	23.00	2.2
KNA	13.80	203	iPc	15	22.60	-4.4X
PMG	14.21	117	eP	15	32.00	-0.4
WB2	16.82	180	eP	15	59.00	-7.0X
	0.5s	19.70nm				4.5mb
			i	16	04.30	
PLP	16.90	327	ePc	16	06.70	-0.3
RAB	17.80	94	e(P)	16	20.00	1.8
TSM	18.01	294	eP	16	19.00	-1.8
KHKI	19.40	253	eP	16	31.80	-5.6X
			e	18	55.60	
GUMO	19.51	32	eP	16	36.70	-2.0
	1 3s	152.60nm				5.1mb
			e	16	43.10	
CTA	20.56	147	iPd	16	49.00	-0.7
	1.0s	15.00nm				4.3mb
			i	16	52.00	
			i	16	58.00	
			i	17	08.00	
			iS	20	42.00	
PGP	21.13	321	iPd	16	56.00	0.4
TGY	21.60	322	eP	17	03.50	3.1X
TRT	22.12	257	ePd	17	06.60	1.1
MBL	22.92	217	eP	17	14.00	0.7
	0.7s	38.00nm				5.0mb
BCP	23.62	325	eP	17	22.20	1.9
BAG	23.63	325	ePc+	17	20.00	-0.4
			e	21	38.00	
CVP	24.02	329	eP	17	23.80	-0.2
WARB	24.20	197	eP	17	26.50	0.8
OLP	25.27	159	eP	17	36.00	0.1
LEM	26.91	261	ePd	17	56.00	4.6X
FORT	28.25	192	eP	18	03.00	-0.2
STK	29.51	167	eP	18	12.20	-2.3
	0.4s	2.10nm				4.2mb
BRS	29.96	146	iPc	18	18.00	-0.6
			i	18	24.00	
COOL	30.40	203	eP	18	22.00	-0.5
	0.6s	5.00nm				4.5mb
MRWA	31.36	212	iPc	18	31.80	0.9
	0.5s	2.00nm				4.2mb
ARMA	31.78	151	eP	18	34.60	-0.1
	0.9s	15.00nm				4.8mb
ADE	32.04	173	e(P)	18	36.30	-0.6
BAL	32.12	209	eP	18	37.00	-0.6
	0.6s	10.00nm				4.9mb
MUN	33.49	209	eP	18	50.00	0.6
BWA	33.88	159	eP	18	51.60	-1.3
IPM	34.15	283	ePd	18	55.90	0.4
CAN	34.89	159	eP	19	02.50	1.0
TOO	35.87	165	eP	19	14.30	4.4X
SSE	36.17	341	Pc	19	12.30	-0.1
	1.2s	33.00nm				5.1mb
	Z 20s	0.80um				4.5Msz
			S	24	48.00	
			ePcS	25	24.00	
			i	27	30.00	
NNT	37.73	295	eP	19	26.20	0.5
NST	38.62	300	eP	19	33.00	-0.1
KHT	39.60	297	eP	19	40.20	-1.1
CHG	41.05	303	iPc	19	53.30	0.1
	1.0s	21.25nm				4.8mb
KMI	41.52	314	Pc	19	57.50	0.3
	2.0s	90.00nm				5.2mb
			pP	20	05.50	27kmX
BJI	45.98	341	eP	20	32.50	-0.3
	1.4s	48.00nm				5.2mb
	Z 20s	0.60um				4.5Msz
			eS	27	16.00	
LZH	48.23	327	eP	20	50.00	-0.8
	1.2s	114.00nm				5.8mb
	Z 22s	0.51um				4.5Msz
	E 15s	0.43um				
			pP	21	03.50	50kmX
			sP	21	07.50	
GUN	55.84	307	P	21	47.40	-0.8
	0.8s	35.00nm				5.4mb
PKI	56.08	306	P	21	48.80	-1.1
KKN	56.27	306	P	21	50.20	-0.9
DMN	56.34	306	P	21	50.80	-0.9
GKN	56.88	306	P	21	54.60	-0.8
	0.8s	40.00nm				5.5mb
HYB	58.65	292	eP	22	07.00	-0.8
	1.0s	50.00nm				5.6mb
GBA	58.83	288	P	22	09.00	0.0
IRK	60.67	339	eP	22	19.40	-1.7
	1.3s	22.00nm				5.1mb
POO	63.27	292	eP	22	39.50	0.4
YAK	64.95	358	eP	22	48.20	-1.0
	1.0s	50.00nm				5.5mb
OUE	72.19	303	eP	23	36.50	1.5
MAIO	79.64	308	iPd	24	18.60	1.7
			eS	34	28.00	
TTA	83.54	26	eP	24	37.12	0.4
	0.9s	3.77nm				4.5mb
IMA	85.50	23	eP	24	47.19	0.6
	0.9s	3.44nm				4.6mb
FBA	87.57	25	eP	24	56.73	0.2
	0.8s	4.64nm				4.8mb
BALM	89.36	29	(P)	25	06.01	0.7
INK	93.57	22	eP	25	25.00	0.6

```
YKA    102.28   26 ePdiff26 09.50   5.6X
        0.8s      0.40nm          4.1mb
GEC2   112.07  322 PKP    30 45.20   0.6
        0.6s      0.24nm
                    e      30 48.20
                    e      30 54.40
                    e      30 59.60
VBY    112.26  318 ePKP   30 48.20   3.2X
LPG    117.76  321 ePKP   31 01.10   5.2X
        0.7s      3.30nm
LPL    117.77  321 ePKP   31 00.40   4.5X
        0.8s      4.05nm
TCF    120.16  324 ePKP   31 05.60   5.5X
        0.8s      2.95nm
LPO    121.61  322 ePKP   31 08.80   5.9X
        0.9s      5.55nm
FSA    144.99  147 e(PKP)31 47.80   0.8
YJA    148.32  143 ePKPd 31 55.00   1.8
CNCB   150.42  132 PKP    32 02.70   6.1X
LPB    150.51  132 PKP    32 03.20   6.6X
ZOBO   150.65  131 PKP    32 02.80   5.8X
        1.1s     26.68nm
                   LR     23 38.00
SDV    154.47   76 ePKP   32 02.40   0.4
     S.D. = 1.0   on  60 of  76 obs.
-------------------------------------------
*  MAY  01, 1993  17h 44m 39.69± 1.12s
   38.622 N ±14.5km  140.930 E ±23.7km
   DEPTH = 107.4 ± 13.8 km
   3.6mb (  2 obs )
 EASTERN HONSHU, JAPAN              (227)

MAT      3.00 227 eP     45 26.00   -0.3
                 eS     46 04.00
MRRJ     3.80   2 eP     45 37.80    0.6
                 eS     46 26.40
HOOJ     4.16  25 eP     45 42.70    0.5
                 eS     46 30.70
KUSJ     5.31  31 eP     45 56.80   -1.1
                 eS     46 55.30
ASAJ     5.64  13 eP     46 02.50    0.0
WRA     58.58 187 P      54 28.00    0.6
        0.6s      0.30nm          3.5mb
NB2     72.58 337 P      55 56.00   -0.6
        0.5s      0.60nm          3.7mb
     S.D. = 1.0   on   7 of   7 obs.
-------------------------------------------
*  MAY  01, 1993  19h 32m 25.88± 1.04s
   35.623 N ± 8.0km  112.061 W ±14.2km
   DEPTH =   5.0km  (geophysicist)
 WESTERN ARIZONA                    ( 42)
     ML 2.7 (GS).

ARUT     2.43 333 eP     33 06.56   -0.5
                 S      33 35.90
MSU      2.89 358 eP     33 13.90    0.3
                 S      33 50.56
TUC      3.47 162 (Pn)   33 21.84    0.1
                 ePg    33 29.50
SRU      3.69  19 eP     33 25.87    0.9
                 S      34 16.22
PV09     3.70  38 ePn    33 24.50   -0.8
                 S      34 16.72
PV08     4.02  42 (Pn)   33 29.67   -0.1
EMUT     4.30  13 (P)    33 35.35    1.7X
     S.D. = 0.8   on   6 of   7 obs.
-------------------------------------------
   MAY  01, 1993  20h 01m 00.59± 0.59s
   17.894 N ± 6.0km   99.248 W ± 6.0km
   DEPTH =  41.2 ±  9.7 km
   3.9mb (  1 obs.)
 GUERRERO, MEXICO                   ( 59)

III      0.52 336 iP     01 12.00    0.1
                 (S)    01 28.00
ACX      1.17 210 iP     01 20.50   -0.3
                 iS     01 35.00
PPM      1.31  27 iP     01 22.50   -0.7
                 iS     01 39.00
IIA      1.37  24 iP     01 23.50    0.0
                 (S)    01 39.00
UNM      1.43   2 iP     01 25.00    0.3
                 iS     01 42.00
IISM     2.08  58 iP     01 33.50   -0.3
                 (S)    01 59.00
OXX      2.54 108 iP     01 41.00    0.5
                 (S)    02 15.00

MRX      2.58 315 (P)    01 41.00    0.3
TUC     17.73 326 eP     05 06.51    0.3
PRM     22.09  40 eP     05 54.06    0.2
MSU     23.44 334 iPc    06 06.79   -0.5
YKA     45.83 350 eP     09 14.80   -5.3X
        0.6s      0.90nm          3.9mb
     S.D. = 0.5   on  11 of  12 obs.
-------------------------------------------
*  MAY  01, 1993  20h 05m 55.65± 1.16s
   19.820 S ±11.1km   69.520 W ±23.3km
   DEPTH =  33.0km  (normal)
 NORTHERN CHILE                     (123)

CNCB     3.33  26 iPc    06 47.00   -0.2
LPB      3.54  23 P      06 51.00    1.0
ZOBO     3.77  21 Pc     06 52.70   -0.8
ANT      3.95 192 eP     06 55.50    0.0
SIV      8.90  66 iPc    08 05.00    0.0
     S.D. = 0.9   on   5 of   5 obs.
-------------------------------------------
   MAY  01, 1993  20h 13m 41.52± 0.57s
   33.516 N ± 8.0km  131.955 E ± 6.7km
   DEPTH =  33.0km  (normal)
 KYUSHU, JAPAN                      (235)

SHNJ     0.93 311 iPd    13 58.20    0.0
                 iS     14 11.00
KUMJ     1.36 224 iPd    14 04.60    0.2
                 eS     14 21.90
TKSJ     1.81  74 P      14 11.50    0.7
                 S      14 33.50
YONJ     2.08  36 P      14 14.90    0.1
KAGJ     2.49 202 P      14 20.40   -0.2
WKYJ     3.11  76 P      14 29.10   -0.3
                 S      15 03.80
TSRJ     3.89  58 P      14 40.70    0.3
                 S      15 22.90
MAT      5.95  58 eP     15 09.00   -0.7
                 (S)    16 11.00
     S.D. = 0.5   on   8 of   8 obs.
-------------------------------------------
?  MAY  01, 1993  20h 50m 57.89± 2.73s
   17.426 N ±15.9km   61.105 W ±18.0km
   DEPTH =  10.0km  (geophysicist)
 LEEWARD ISLANDS                    ( 92)
     MD 3.5 (TRN). ML 2.8 (FDF).

CPB      0.72 287 eP     51 11.92   -0.1
                 eS     51 23.58
BPA      0.81 242 eP     51 13.50   -0.1
                 S      51 25.60
DEG      1.11 178 eP     51 18.50   -0.2
MGH      1.27 237 eP     51 21.50    0.0
                 S      51 40.00
NEV      1.43 259 eP     51 24.10    0.2
                 eS     51 43.33
DOG      1.47 200 eP     51 24.59    0.1
PAG      1.49 202 eP     51 25.00    0.2
     S.D. = 0.2   on   7 of   7 obs.
-------------------------------------------
&  MAY  01, 1993  21h 04m 02.48s
   59.977 N          152.647 W
   DEPTH = 101.3km
 SOUTHERN ALASKA                    (  2)
     <AEIC>.

INE      0.23 292 eP     04 16.60    0.9
                 eS     04 28.02
INW      0.26 291 eP     04 16.71    0.9
                 eS     04 28.89
OPT      0.44 222 iPc    04 17.47   -0.8
                 eS     04 28.91
RSO      0.49 354 iPd    04 18.04   -0.8
                 eS     04 30.93
RS2      0.49 354 iPd    04 18.06   -0.8
                 eS     04 30.88
RDW      0.51 351 iPd    04 18.13   -0.8
                 eS     04 30.19
NCT      0.60 347 iPd    04 18 59   -1.0
                 eS     04 31.28
DFR      0.62 358 iPd    04 18.80   -0.9
                 eS     04 31.84
XLV      0.70 138 ePc    04 19.15   -1.1
AUL      0.72 214 iPd    04 19.86   -0.6
AUE      0.72 211 ePd    04 19.77   -0.6
AUH      0.74 214 eP     04 19.97   -0.7
AUW      0.74 215 ePc    04 19.93   -0.7

AUI      0.76 212 eP     04 19.87   -0.9
                 eS     04 33.20
PDB      0.80 257 iPc    04 20.51   -0.7
                 eS     04 34.45
CNPM     0.85 122 iPc    04 20.83   -0.9
                 eS     04 35.31
BRLK     0.91 103 iPc    04 21.47   -0.9
                 eS     04 36.83
NKA      1.04  42 iPd    04 24.61    0.9
CDD      1.17 206 iPd    04 23.86   -1.3
MCNL     1.17 228 iPd    04 24.05   -1.2
                 eS     04 40.52
CKL      1.23   7 iPd    04 25.20   -0.9
SPU      1.24  13 iPd    04 25.22   -0.9
                 eS     04 43.24
CKT      1.25  10 iPd    04 25.28   -0.9
CKN      1.27  10 iPd    04 25.75   -0.7
BGL      1.30   5 iPd    04 26.10   -0.7
CPAM     1.31  11 iPd    04 26.20   -0.7
CP2      1.31   9 iPd    04 26.38   -0.7
CRP      1.32  10 ePd    04 25.74   -1.4
SLKM     1.32  65 eP     04 26.10   -0.9
CGLM     1.37  13 eP     04 27.09   -0.6
SYI      1.38 174 eP     04 26.42   -1.2
SEW      1.61  84 ePc    04 29.02   -1.5
MPA      1.72  71 ePc    04 30.71   -1.2
SUA      1.76  31 iPd    04 31.82   -0.8
SVW      1.86 309 eP     04 31.92   -1.9
PMS      1.98  49 P      04 34.20   -1.2
PTE      2.01  62 eP     04 34.06   -1.6
SKT      2.08  15 iPd    04 35.35   -1.4
PWA      2.16  38 P      04 36.70   -1.0
KDC      2.24 178 (P)    04 35.68   -3.0
PLRM     2.37  45 eP     04 38.02   -2.4
GHO      2.56  44 ePd    04 41.26   -1.9
SML      2.80  47 eP     04 43.93   -2.4
HIN      3.10  80 eP     04 48.33   -2.1
SCM      3.20  52 eP     04 49.63   -2.2
KLU      3.64  62 eP     04 54.30   -3.5
       46 obs. associated
-------------------------------------------
&  MAY  01, 1993  21h 11m 58.25s
   63.076 N          150.796 W
   DEPTH = 111.1km
 CENTRAL ALASKA                     (  1)
     <AEIC>.

TRF      0.44  31 iP     12 15.03   -0.3
                 eS     12 28.06
HUR      0.54 100 iP     12 15.31   -0.4
                 S      12 28.63
RND      0.94  68 eP     12 18.63   -0.7
                 eS     12 34.52
SKT      1.15 198 iP     12 20.99   -0.5
                 eS     12 38.45
PWA      1.49 163 eP     12 25.78    0.4
                 eS     12 46.78
GHO      1.57 146 iP     12 26.26   -0.2
                 eS     12 48.61
SUA      1.62 179 eP     12 27.47    0.4
PLRM     1.68 152 eP     12 26.63   -1.0
SML      1.71 137 iP     12 27.34   -0.8
                 eS     12 50.89
WRH      1.85  39 eP     12 28.47   -1.3
PMS      1.93 162 eP     12 30.36   -0.5
                 eS     12 55.03
SPU      1.99 198 eP     12 31.45   -0.3
PTE      2.37 159 eP     12 35.87   -0.7
TTA      2.38 269 eP     12 35.63   -1.2
PAX      2.43  90 eP     12 36.64   -0.9
SDG      2.48 101 eP     12 37.00   -1.0
KLU      2.78 123 eP     12 40.15   -1.9
       17 obs. associated
-------------------------------------------
   MAY  01, 1993  21h 15m 24.15± 0.77s
   43.119 N ± 7.4km   18.242 E ± 5.2km
   DEPTH =  10.0km  (geophysicist)
 NORTHWESTERN BALKAN REGION         (383)
     ML 2.3 (TTG).

BRY      0.31 134 iPgc   15 30.65    0.0
                 iSg    15 35.38
NKY      0.63 119 iPgc   15 36.36   -0.6
                 iSg    15 45.71
HCY      0.70 164 iPgc   15 37.56   -0.4
                 iSg    15 48.26
PLE      0.87  76 iPgd   15 40.65   -0.3
```

01d 21h

		iSg	15	53.26		
BDV	0.94	152 iPgc	15	41.97	-0.1	
		iSg	15	56.38		
TTG	1.02	132 iPgc	15	43.46	0.1	
		iSg	15	58.73		
IVA	1.24	101 iPgc	15	47.33	0.1	
		iSg	16	05.79		
HVAR	1.31	273 iPn	15	48.40	0.0	
		iSn	16	06.20		
ULC	1.37	147 iPgc	15	49.94	0.6	
		iSg	16	10.44		
PVY	1.38	112 iPgd	15	50.18	0.7	
		iSg	16	10.44		

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

? MAY 01, 1993 21h 29m 02.01± 4.24s
37.990 N ±11.5km 26.917 E ±40.3km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)
ML 3.2 (ISK).

IZM	0.49	34 iPg	29	11.40	-0.6	
		iSg	29	19.90		
YER	1.38	128 ePn	29	27.00	-0.4	
KHL	2.08	80 ePn	29	38.00	0.5	
KCT	2.52	26 ePn	29	44.00	0.4	

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

& MAY 01, 1993 21h 35m 33.43s
61.567 N 146.701 W
DEPTH = 19.3km
2.8mb (1 obs.)
SOUTHERN ALASKA (2)
<AEIC>. ML 3.0 (AEIC).

KLU	0.38	101 iPc	35	41.17	-0.3	
		eS	35	47.70		
SCM	0.40	312 iPc	35	41.69	-0.1	
VLZ	0.47	158 iPd	35	41.94	-1.0	
		eS	35	49.61		
TZL	0.77	51 iPc	35	47.26	-0.8	
SML	0.81	288 iPc	35	47.23	-1.6	
		eS	35	58.55		
GHO	1.08	282 iPc	35	51.40	-2.0	
		eS	36	06.49		
SDG	1.11	29 iPd	35	52.06	-1.7	
		eS	36	06.06		
CVA	1.12	155 iPc	35	52.07	-1.9	
PLRM	1.16	272 iPc	35	52.95	-1.6	
		eS	36	08.40		
PMR	1.16	272 ePd	35	52.65	-1.9	
		S	36	07.22		
HIN	1.18	175 iPc	35	53.60	-1.3	
PTE	1.33	239 iPc	35	55.67	-1.2	
		eS	36	13.25		
GLB	1.39	94 iPc	35	55.63	-2.3	
		eS	36	14.60		
PMS	1.41	258 P	35	57.20	-1.0	
PWA	1.52	275 P	35	58.50	-1.2	
PAX	1.52	22 iPd	35	57.94	-1.9	
		eS	36	17.46		
RAGM	1.54	139 ePc	35	59.22	-0.8	
MPA	1.69	231 iPc	36	00.90	-1.2	
CROM	1.91	114 eP	36	04.25	-1.3	
THY	1.91	13 eP	36	05.04	-0.3	
SUA	1.94	269 iPc	36	04.62	-1.3	
HUR	1.97	317 eP	36	05.43	-0.8	
KAIM	1.99	145 eP	36	05.21	-1.3	
SEW	1.99	224 eP	36	05.44	-1.1	
SLKM	2.02	240 eP	36	05.94	-1.0	
TGL	2.05	112 eP	36	05.65	-1.8	
RND	2.10	333 eP	36	07.51	-0.7	
BALM	2.17	102 iPd	36	07.33	-1.9	
SKT	2.33	282 iPc	36	10.19	-1.2	
		eS	36	40.30		
SNH	2.35	125 eP	36	11.10	-0.6	
NKA	2.35	251 eP	36	11.85	0.2	
MCK	2.41	336 eP	36	12.41	-0.1	
DOT	2.42	29 eP	36	12.18	-0.5	
TRF	2.52	320 eP	36	13.26	-1.0	
SPU	2.61	264 iPc	36	13.41	-2.0	
CPAM	2.63	266 ePc	36	14.07	-1.8	
CRP	2.64	266 eP	36	13.64	-2.3	
		S	36	50.46		
CKN	2.66	265 iPc	36	14.73	-1.4	
CTGM	2.66	101 iPc	36	15.06	-1.2	
CKT	2.67	265 eP	36	14.46	-1.9	
CP2	2.68	266 eP	36	14.49	-2.1	
YAH	2.70	114 iPc	36	13.77	-3.1	
CKL	2.74	265 eP	36	15.22	-2.1	
BRLK	2.74	231 eP	36	15.62	-1.6	
BGL	2.75	266 eP	36	15.48	-2.0	
HDA	2.85	358 eP	36	17.17	-1.6	
WRH	2.98	348 eP	36	19.03	-1.6	
CNPM	3.04	230 eP	36	19.42	-2.0	
DFR	3.07	254 eP	36	20.34	-1.6	
CCB	3.13	351 iPd	36	20.59	-2.2	
RSO	3.15	252 eP	36	21.00	-2.2	
RS2	3.15	252 eP	36	21.02	-2.2	
RDW	3.17	253 eP	36	21.07	-2.4	
NCT	3.19	254 eP	36	21.47	-2.3	
NEA	3.21	341 eP	36	22.04	-1.8	
FBA	3.38	352 eP	36	21.89	-4.4	
GLM	3.45	355 eP	36	24.75	-2.5	
INE	3.46	247 eP	36	25.02	-2.6	
MDM	3.47	349 eP	36	25.39	-2.3	
INW	3.49	247 eP	36	25.68	-2.3	
OPT	3.75	242 eP	36	29.34	-2.2	
MLY	3.93	334 eP	36	32.12	-1.9	
AUE	3.98	239 eP	36	32.95	-1.7	
AUL	3.99	240 eP	36	33.37	-1.5	
AUH	4.00	239 eP	36	33.35	-1.8	
AUW	4.01	240 eP	36	33.35	-1.8	
AUI	4.01	239 eP	36	33.45	-1.8	
PDB	4.09	247 eP	36	33.13	-3.3	
SYI	4.11	226 eP	36	34.91	-1.7	
SVW	4.32	268 eP	36	35.71	-4.0	
CDD	4.35	236 eP	36	37.57	-2.5	
MCNL	4.48	241 eP	36	38.07	-3.8	
TTA	4.56	292 eP	36	39.00	-4.2	
IMA	5.47	329 eP	36	52.63	-3.4	
YKA	15.00	72 eP	39	07.30	1.5	

0.8s 0.40nm 2.8mb
75 obs. ossociated

% MAY 01, 1993 21h 57m 44.31± 0.90s
33.910 S ±11.6km 70.706 W ±10.9km
DEPTH = 80.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)
MD 3.6 (SAN).

CHCH	0.05	118 iP	57	55.92	-0.1	
		iS	58	06.59		
TACH	0.32	323 iP	57	57.33	0.4	
		iS	58	09.02		
PCH	0.33	29 iP	57	57.29	0.2	
		iS	58	08.38		
LNV	0.59	265 iP	57	58.79	-0.2	
		iS	58	11.64		
FCH	0.68	31 iPd	58	00.13	-0.2	
		iS	58	14.42		
PEL	0.76	1 iPd	58	01.13	0.2	
		iS	58	15.56		
LCCH	0.84	301 iP	58	01.69	0.0	
		iS	58	16.14		
ROCH	0.97	345 iP	58	03.49	0.0	
		iS	58	19.30		
JACH	1.23	4 iP	58	06.29	-0.3	
		iS	58	24.30		

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

& MAY 02, 1993 00h 52m 28.20s
40.540 N 125.955 W
DEPTH = 5.0km
OFF COAST OF NORTHERN CALIFORNIA(34)
<BRK>. ML 3.9 (BRK), 3.2 (GS).

EKR	1.39	83 iPc	52	51.87	-2.4	
		eS	53	09.68		
KMPM	1.40	94 ePc	52	52.53	-2.0	
		S	53	10.75		
ARC	1.47	76 eP	52	52.56	-2.8	
		eS	53	11.36		
FHC	1.52	79 iPc	52	53.79	-2.3	
		eS	53	13.59		
LGPM	2.40	80 ePc	53	06.20	-2.8	
		S	53	33.95		
WDC	2.60	88 eP	53	09.04	-2.6	
		S	53	38.14		
LBFM	3.18	74 ePd	53	19.46	-0.6	
DBO	3.28	37 Pc	53	20.52	-0.8	
MIN	3.33	92 eP	53	19.29	-2.8	
		eS	53	57 69		
NTYM	3.33	129 eP	53	17.17	-4.8	
LMEM	3.34	89 (P)	53	20.56	-1.8	
ORV	3.56	105 eP	53	22.20	-3.0	
HSO	3.67	35 P	53	26.05	-0.8	
RNO	3.75	25 P	53	26.58	-1.4	
JEGM	4.07	137 eP	53	27.15	-5.2	
PCC	4.12	136 iPc	53	27.37	-5.7	
COE	4.68	133 ePd	53	36.34	-4.8	
ARN	4.69	131 eP	53	37.49	-3.9	
SSOR	5.02	30 P	53	45.67	-0.4	
VIP	5.04	97 Pd	53	53.52	7.0	
SAO	5.16	135 eP	53	41.83	-6.2	
CROR	5.75	38 Pd	53	55.15	-1.2	
VGB	6.25	36 eP	54	02.35	-1.1	
YKA	23.02	14 eP	57	40.60	5.8	

0.5s 0.10nm 2.6mb
24 obs. ossociated

MAY 02, 1993 01h 58m 03.38± 0.85s
11.931 S ± 5.0km 119.281 E ± 6.6km
DEPTH = 34.9 ± 9.7 km
5.0mb (8 obs.) 4.3Msz (1 obs.)
SOUTH OF SUMBA, INDONESIA (292)

WSI	2.45	24 ePd	58	42.80	1.0	
		eS	59	12.20		
KUG	4.60	68 eP	59	14.60	2.2	
		eS	00	01.00		
KHKI	5.06	314 iPd	59	20.20	1.2	
		iS	00	17.00		
		e	05	13.00		
MKS	6.67	2 iPc	59	42.00	0.4	
		iS	00	53.00		
TRT	7.78	302 iPd	59	55.80	-1.3	
		iS	01	08.10		
SJI	8.50	299 iPd	00	06.80	-0.3	
		eS	01	40.50		
MBL	9.19	177 iPd	00	14.80	-1.9	
	0.3s	55.00nm			6.2mb X	
KNA	9.96	113 eP	00	23.60	-3.7X	
		eS	02	06.00		
NANU	11.16	198 iPd	00	42.90	-0.8	
		eS	02	35.00		
MTN	11.61	96 iPd	00	47.60	-2.2	
		eS	02	45.00		
LEM	12.57	293 ePc	01	03.80	0.9	
MEEK	14.64	182 iPd	01	29.20	-0.8	
		eS	03	59.00		
WARB	15.79	155 iPd	01	42.80	-2.0	
		iS	04	28.00		
SWI	16.19	48 ePd	01	44.50	-5.5X	
WB2	16.53	121 iPd	01	49.80	-4.6X	
	0.3s	28.50nm			4.9mb X	
		eS	04	41.30		
MRWA	17.47	190 iPd	02	06.20	0.1	
		eS	05	03.00		
ASPA	18.15	132 iPd	02	13.50	-1.0	
		eS	05	23.40		
BAL	18.74	187 eP	02	22.50	0.8	
		eS	05	37.00		
COOL	18.94	175 eP	02	25.00	0.8	
		iS	05	37.20		
KLB	19.62	184 eP	02	34.50	2.5	
		eS	05	53.50		
MUN	20.15	188 iPc	02	41.00	3.4X	
		eS	06	06.50		
FORT	20.44	158 eP	02	40.50	-0.1	
NWAO	20.98	185 eP	02	52.00	5.9X	
		eS	06	25.50		
KGM	21.06	310 ePd	02	49.20	2.2	
RKG	22.63	185 eP	03	04.00	1.4	
PGP	25.32	4 ePc	03	28.00	-0.7	
STK	28.57	138 eP	03	57.80	-0.5	
	0.6s	5.60nm			4.4mb	
		eS	09	26.00		
TOO	34.68	142 iPc	04	53.00	1.1	
	0.6s	12.00nm			5.0mb	
BWA	34.69	135 eP	04	54.00	1.9	
ARMA	35.15	127 iPd	04	57.30	1.2	
	0.7s	16.00nm			5.1mb	
CAN	35.58	136 eP	05	00.20	0.5	
CHG	36.54	326 eP	05	08.80	0.9	
GBA	48.63	300 P	06	46.00	-0.2	
HYB	49.69	305 eP	06	54.00	-0.3	
LZH	49.93	344 eP	06	55.00	-1.1	
	1.5s	27.00nm			5.1mb	
Z	20s	0.30um			4.3Msz	
		pP	07	05.50	36kmX	

GUN	51 14 321 P	07 04.80	-0.8	RTRS	51.46 245 ePd	18 34.40	0.8
	0.7s 28.00nm	5.3mb		PEL	52.61 241 eP	18 42.00	-0.4
PKI	51.19 321 P	07 04.60	-1.4	NAI	52.88 78 iP	18 50.00	5.2X
	0.6s 13.00nm	5.1mb			Z 20s 0.60um	4.6Msz
DMN	51.40 320 P	07 06.60	-0.9	SNA	53.47 175 iPd	18 49.20	1.1
MAT	51.41 20 eP	07 03.00	-4.1X		1.0s 162.00nm	6.0mb
	1.0s 10.00nm	4.7mb		EJIF	54.19 9 iPd	18 54.17	0.5
KKN	51.42 321 P	07 06.00	-1.6	MAL	54.62 10 iPc	18 56.50	-0.4
8JI	51.78 357 eP	07 08.00	-1.8	EPRU	54.73 9 iPc	18 58.27	0.5
	1.2s 33.00nm	5.2mb		EGUA	54.87 11 eP	18 58.13	-0.7
GKN	51.97 320 P	07 10.80	-0.9	ENIJ	55.26 12 iPc	19 01.65	0.0
MNG	56.80 131 P	07 45.20	-1.5	ECOG	55.30 11 iPd	19 02.17	0.1
MAIO	73.93 313 eP	09 39.00	1.8	ELUQ	55.46 10 iPc	19 02.89	-0.2
MDI	112.09 315 PKP	16 32.60	-4.3X	EHOR	55.56 9 iPd	19 03.90	0.2
	eSn	17 00.00		NVL	55.71 170 iPc	19 05.50	1.0
VAI	112.74 315 PKP	16 38.40	0.3		1.0s 93.00nm	5.8mb
RSNY	145.40 17 ePKP	17 39.16	-0.4		e	19 17.00	
YJA	145.79 172 ePKPc	17 43.30	1.9	EHUE	56.00 11 iPc	19 06.59	-0.4
CNCB	150.55 166 PKP	17 56.00	6.9X	EALH	56.28 12 iPc	19 09.57	0.7
LPB	150.79 165 PKP	17 57.00	7.7X	EVIA	56.82 11 iPd	19 12.37	-0.5
ZOBO	151.04 165 PKP	17 56.10	6.2X	ACU	57.12 13 iPd	19 15.65	0.7
SIV	152.26 179 PKP	17 54.40	3.4X	EPLA	57.65 8 iPc	19 19.19	0.5
	S.D. = 1.4 on 41 of 52 obs.			ECHE	58.04 12 iPc	19 22.13	0.7
				GUD	58.49 9 iPc	19 24.92	0.3
	MAY 02, 1993 02h 09m 25.86± 0.16s			ETOR	59.02 11 iPc	19 28.39	0.1
	17.352 S ± 3.2km 14.500 W ± 3.0km			EZAM	59.44 5 eP	19 31.15	0.1
	DEPTH = 10.0km (geophysicist)			EROQ	59.51 13 iPc	19 32.10	0.5
	5.6mb (84 obs.) 4.5Msz (22 obs.)			EBR	59.53 13 eP	19 32.50	0.9
	SOUTHERN MID-ATLANTIC RIDGE (410)			ERUA	59.83 6 iPd	19 34.21	0.5
				STS	60.19 5 iPd	19 36.52	0.4
LIC	25.23 23 Pc	14 53.32	-0.2	NNA	60.33 266 eP	19 37.50	-0.3
	1.2s 70.00nm	5.2mb			1.3s 38.46nm	5.4mb
KIC	25.46 23 P	14 55.56	-0.2	FAI	60.47 26 P	19 40.30	2.1
	1.2s 93.00nm	5.4mb		ECRI	60.67 10 iPc	19 40.03	0.5
	TT	39 11.00		EGRA	60.68 12 iPc	19 40.43	1.0
SOB1	26.91 284 eP	14 49.00	-20.2X	EMON	60.84 6 iPc	19 41.00	0.3
	e	14 59.10		TOV	60.93 292 ePc	19 42.00	0.2
	e	17 43.10			iPP	19 43.20	
KDS	29.81 4 iPd	15 34.30	-1.1	GIB	61.23 25 P	19 43.80	0.3
WIN	30.12 105 eP	15 36.00	-2.4	SDV	61.29 291 iPc	19 44.40	0.0
	1.0s 50.00nm	5.3mb		TRGS	61.46 14 P	19 45.29	0.2
CACB	30.65 257 eP	15 41.80	-1.2	ETER	61.48 15 iPc	19 44.90	-0.1
	e	15 53.40		SALF	61.53 13 P	19 45.99	0.5
VAO	30.95 254 eP	15 44.90	-0.6	EPF	61.61 12 iPc	19 46.10	0.1
RIFB	31.35 260 iPc	15 48.10	-1.0		1.6s 85.80nm	5.7mb
	e	15 57.70		VDCF	61.63 14 P	19 46.17	0.1
BAO	32.14 268 iPc	15 56.00	-0.1	PERF	61.66 15 P	19 46.07	-0.1
	e	16 16.00		LESF	61.81 13 P	19 47.36	0.1
CER	34.26 124 iPd	16 08.00	-6.3X	SOI	62.15 27 P	19 50.10	0.5
	1.5s 120.00nm	5.6mb		CZI	63.15 26 P	19 53.60	-2.5
PPD	34.91 256 eP	16 19.70	-0.3	LPO	63.37 12 iPc	19 57.50	0.0
FRS	38.35 116 iPd	16 48.70	-0.2		1.4s 113.70nm	5.9mb
	1.2s 30.00nm	4.9mb		LMR	63.39 17 iPc	19 57.50	-0.2
8LF	39.00 115 eP	16 51.70	-2.8		1.3s 65.35nm	5.7mb
	1.0s 40.00nm	5.0mb		PGF	63.41 19 iPc	19 57.60	-0.4
KSR	39.28 110 iPd	16 57.00	0.1		1.3s 43.30nm	5.5mb
	0.5s 12.00nm	4.8mb		LRG	63.46 17 iPc	19 58.20	0.1
PRY	39.88 111 iPc	17 02.00	0.2		1.4s 99.35nm	5.8mb
	0.8s 26.00nm	5.0mb		CDR	63.51 16 iPc	19 58.70	0.2
SEK	40.15 113 iPd	17 04.80	0.7	LFF	63.53 12 iPc	19 58.70	0.2
	0.7s 38.00nm	5.2mb			1.2s 153.50nm	6.1mb
SLR	40.52 109 iPd	17 06.60	-0.5	TDS	63.60 26 P	19 58.50	-0.6
	0.8s 33.00nm	5.1mb		ROI	63.63 26 P	19 58.20	-1.2
	Z 20s 4.66um	5.3Msz		FRF	63.64 17 iPc	19 59.20	-0.1
BUL	40.84 101 iPd	17 09.80	0.0		1.4s 68.85nm	5.7mb
	ipP	17 15.00	18kmX	MGR	63.68 25 P	19 59.30	-0.3
LSZ	40.96 93 iPd	17 13.00	2.2	CSI	63.68 26 P	19 59.30	-0.4
	1.2s 1.90nm	3.7mb X		CAF	63.79 13 iPc	20 00.00	-0.3
BFT	42.10 109 iPd	17 20.00	-0.2		1.5s 63.70nm	5.6mb
	1.0s 46.00nm	5.2mb		SGO	63.93 25 P	20 01.20	-0.1
CIR	43.56 102 iPd	17 24.50	-7.4X	RDP	63.97 22 P	20 01.90	0.3
	i	17 29.60		RJF	64.03 13 iPc	20 01.70	-0.2
SLA	47.94 252 ePd	18 07.30	0.4		1.4s 111.55nm	5.9mb
TIO	48.50 8 iPc	18 12.50	1.4		Z 25s 0.28um	4.3MszX
RTCV	50.73 243 ePc	18 27.00	-1.2	AURF	64.13 17 P	20 02.90	0.2
AVE	50.82 8 iP	18 29.80	1.2	SBF	64.14 17 iPc	20 02.70	0.0
CNCB	50.98 262 iPc	18 30.90	0.0		1.3s 84.50nm	5.8mb
MDZ	51.06 242 i(P)	18 30.50	-0.2	TOUF	64.23 17 P	20 03.73	0.3
LPB	51.14 263 Pc	18 31.00	-0.9	AUTN	64.26 17 P	20 03.90	0.2
	Z 18s 2.75um	5.3Msz		SAOF	64.29 18 P	20 03.81	0.2
	LR	33 30.00		IMI	64.32 18 P	20 03.55	-0.3
ZOBO	51.20 263 P	18 31.90	-0.7	SDI	64.33 23 P	20 04.20	0.2
	1.1s 23.20nm	5.0mb		STV	64.46 17 P	20 05.15	0.3
	Z 20s 1.08um	4.9Msz		ENR	64.47 17 P	20 05.01	0.1
	S	25 48.00		MNS	64.51 22 P	20 04.80	-0.3
	LR	33 30.00		DUI	64.54 24 Pd	20 06.60	1.2
IFR	51.37 10 iPd	18 34.50	1.5	PZZ	64.64 17 P	20 06.71	0.7
RO8	64.66 18 P	20 06.25	0.2
DOI	64.68 17 P	20 07.80	1.6
FIN	64.68 18 P	20 06.52	0.3
SSB	64.69 15 P	20 06.32	0.1
COLF	64.71 14 P	20 06.37	0.0
CKI	64.90 18 P	20 07.30	-0.3
RRL	64.93 17 P	20 08.35	0.3
LSF	64.94 12 iPc	20 07.90	0.1
	1.3s 131.75nm	6.0mb
PII	64.96 20 P	20 07.30	-0.6
MFF	64.96 11 iPc	20 07.70	-0.2
	1.3s 90.25nm	5.8mb
BRT	64.98 26 P	20 06.90	-1.2
BHB	64.99 17 P	20 08.17	0.0
8NI	65.03 16 P	20 09.10	0.6
PCP	65.09 18 P	20 06.98	-1.8
ASS	65.10 22 P	20 08.30	-0.7
TCF	65.12 13 iPc	20 09.20	0.2
	1.2s 99.10nm	5.9mb
MAF	65.13 13 iPc	20 09.10	0.1
	1.7s 64.70nm	5.5mb
FIR	65.25 20 eP	20 10.00	0.3
RSP	65.28 17 P	20 09.50	-0.6
BDI	65.28 20 P	20 09.20	-0.9
CRE	65.35 21 P	20 09.20	-1.4
LPG	65.46 16 iPc	20 11.90	0.4
	1.2s 95.20nm	5.9mb
LPL	65.47 16 iPc	20 11.90	0.4
	1.2s 117.20nm	5.9mb
PGD	65.49 21 P	20 10.20	-1.4
BGF	65.51 13 iPc	20 11.40	0.0
	1.1s 48.35nm	5.6mb
LSD	65.53 17 P	20 12.29	0.4
BOB	65.56 19 P	20 12.50	0.6
SFI	65.57 21 P	20 10.30	-1.5
ARV	65.58 22 P	20 10.40	-1.5
RSL	65.60 16 P	20 12.22	0.0
RSM	65.78 21 P	20 12.00	-1.2
SMF	65.81 14 iPc	20 13.40	0.0
	1.4s 77.55nm	5.7mb
AVF	65.84 13 iPc	20 13.60	0.1
	1.4s 84.50nm	5.7mb
EMS	66.04 16 iPc	20 14.80	-0.2
SSF	66.13 13 iPc	20 15.40	0.0
	1.2s 84.20nm	5.8mb
HYF	66.14 13 iPc	20 15.70	0.2
	1.1s 148.95nm	6.1mb
LBF	66.16 14 iPc	20 15.30	-0.4
	1.1s 29.80nm	5.4mb
DIX	66.17 16 iPc	20 15.70	-0.3
LPF	66.19 10 iPc	20 15.70	0.0
	1.4s 107.60nm	5.8mb
MMK	66.30 17 iPc	20 16.40	-0.4
LOR	66.40 14 iPc	20 16.80	-0.4
	1.3s 44.40nm	5.5mb
	Z 20s 0.25um	4.4Msz
TIR	66.52 28 eP	20 18.50	0.6
MDI	66.55 18 P	20 16.70	-1.4
GRR	66.56 10 iPc	20 17.90	-0.2
	1.4s 86.25nm	5.7mb
TMA	66.61 18 iPc	20 17.40	-1.3
LACI	66.68 27 eP	20 19.50	0.5
OHR	66.74 28 iP	20 20.00	0.5
ULC	66.75 27 iPc	20 19.71	0.3
MBH	66.78 46 eP	20 21.20	1.2
HCY	66.82 26 iPc	20 20.24	0.3
BDV	66.83 26 iPc	20 20.71	0.8
LDF	66.89 10 iPc	20 19.90	-0.3
	1.1s 38.85nm	5.5mb
SDA	66.93 27 eP	20 22.10	1.6
FLN	66.99 10 iPc	20 20.40	-0.4
	1.6s 72.15nm	5.6mb
	Z 19s 0.17um	4.3Msz
PHP	67.04 28 eP	20 21.70	0 4
TTG	67.13 27 iPc	20 22.36	0.5
LOMF	67.19 16 P	20 21.70	-0.6
BRY	67.22 26 iPc	20 22.67	0.1
PRNI	67.22 45 eP	20 24.00	1.3
NKY	67.33 26 iPc	20 23.65	0.4
LLS	67.34 17 iPc	20 22.30	-1.1
CTI	67.39 19 P	20 23.20	-0.4
OSS	67.50 18 iPc	20 23.40	-1.0
PVY	67.57 27 iPc	20 25.62	0.8
BSF	67.63 15 iPc	20 24.30	-0.8
	1.1s 31.00nm	5.4mb
HAU	67.68 15 iPc	20 24.80	-0.5
	1.3s 80.15nm	5.7mb

02d 02h

Z 22s 0.17um 4.2Msz
RIY 67.69 22 iPc 20 25.10 -0.2
SKO 67.72 28 iP 20 25.50 -0.1
1.3s 111.00nm 5.9mb
ZLA 67.73 17 iPc 20 25.00 -0.6
IVA 67.76 27 iPc 20 26.61 0.7
VITF 67.79 15 P 20 25.77 -0.2
TRI 67.79 21 ePc 20 26.00 0.1
PLE 67.92 26 iPc 20 27.59 0.6
OGA 67.93 19 iPc 20 26.60 -0.5
1.3s 64.00nm 5.7mb
FEL 67.99 16 P 20 26.64 -0.7
SLE 68.02 17 iPc 20 26.70 -0.7
CEY 68.05 21 ePc 20 27.50 -0.1
2.0s 280.00nm 6.1mb
VOY 68.12 21 iPc 20 28.30 0.2
e 20 33.90
V8Y 68.14 22 iPc 20 28.80 0.7
CDF 68.29 15 iPc 20 28.40 -0.8
1.4s 42.70nm 5.4mb
SOTA 68.30 19 iPc 20 28.30 -1.0
1.1s 59.30nm 5.7mb
LJU 68.35 21 eP 20 29.60 0.1
1.5s 150.00nm 6.0mb
RBL 68.37 20 P 20 29.50 -0.2
MOTA 68.38 18 iPc 20 28.60 -1.3
WTTA 68.47 19 iPc 20 29.60 -0.8
1.1s 89.50nm 5.9mb
WATA 68.52 19 iPc 20 29.60 -1.1
PTJ 68.73 22 iPc 20 32.60 0.7
KBA 68.85 20 iPc 20 32.20 -0.6
1.1s 29.30nm 5.4mb
i 20 45.80
FUR 69.17 18 iPc 20 34.10 -0.4
1.4s 136.00nm 5.9mb
WLF 69.18 14 iPc 20 34.50 0.0
2.2s 67.50nm 5.4mb
DOU 69.24 13 Pc 20 34.50 -0.3
BHG 69.27 19 iPc 20 34.30 -0.8
HRI 69.52 43 eP 20 38.30 1.3
SNF 69.56 13 P 20 36.40 -0.4
ECP 69.60 5 eP 20 37.00 0.1
ECB 69.75 5 eP 20 38.10 0.3
HTR 69.82 7 eP 20 37.70 -0.7
UCC 69.85 13 P+ 20 39.00 0.5
HAE 69.87 8 eP 20 38.50 -0.2
1.4s 30.00nm 5.2mb
HCG 70.02 7 eP 20 39.60 0.0
ETA 70.12 5 eP 20 40.40 0.3
SSR 70.16 27 ePd 20 41.00 0.4
ENN 70.16 14 eP 20 41.00 0.6
1.5s 76.70nm 5.6mb
TNS 70.26 15 ePc 20 41.10 -0.1
UZD 70.29 24 iPd 20 41.80 0.5
GEC2 70.52 19 P 20 41.90 -0.9
0.6s 6.57nm 4.9mb
e 20 46.70
e 23 11.60
e 23 13.40
e 23 19.80
GRF 70.53 17 iPc 20 42.50 -0.3
1.5s 115.00nm 5.8mb
Z 21s 0.20um 4.3Msz
WET 70.53 19 iPc 20 42.60 -0.2
1.3s 102.00nm 5.8mb
DLF 70.69 5 eP 20 43.80 0.2
1.2s 170.00nm 6.1mb
KHC 70.73 19 Pc 20 43.50 -0.6
1.3s 18.00nm 5.0mb
e 20 48.40
e 21 22.00
e 23 16.00
VKA 70.88 21 i(P) 20 45.00 0.1
2.0s 194.00nm 5.9mb
ZST 71.10 22 iPc 20 46.30 0.1
1.3s 86.00nm 5.7mb
SRO 71.21 23 eP 20 47.60 0.7
DMU 71.26 5 eP 20 47.10 0.1
1.3s 123.00nm 5.9mb
HOF 71.27 18 eP 20 46.80 -0.5
1.2s 38.00nm 5.4mb
MOX 71.49 17 iPc 20 48.30 -0.3
1.5s 78.00nm 5.6mb
WTS 71.51 14 ePc 20 49.00 0.4
0.9s 41.50nm 5.5mb
PRU 71.79 19 iPc 20 49.80 -0.5
1.6s 91.60nm 5.6mb

e 21 00.10
ePP 22 05.60
CMP 71.93 28 ePd 20 50.00 -1.3
BRG 72.38 18 iPc 20 53.60 -0.2
1.2s 44.00nm 5.4mb
i 21 07.40
e 21 15.00
CLL 72.48 18 iPc 20 53.90 -0.5
1.9s 60.00nm 5.4mb
MLR 72.51 29 ePc 20 55.00 0.1
SPA 72.76 180 iPc 20 57.90 1.7
1.0s 120.00nm 5.9mb
CVO 72.86 28 ePc 20 56.50 -0.3
EKA 73.03 7 Pc 20 57.20 -0.4
1.0s 43.60nm 5.5mb
SPC 73.07 23 eP 20 58.20 0.0
KSP 73.09 20 ePc 20 58.00 0.0
1.4s 49.00nm 5.4mb
VRI 73.15 29 eP 20 56.00 -2.5
OJC 73.76 22 eP 21 01.90 0.0
1.2s 97.00nm 5.7mb
i 21 06.40
i 21 08.40
KPL 74.77 5 eP 21 07.40 -0.2
KAC 74.96 5 eP 21 08.50 -0.2
MUD 76.17 13 ePd 21 16.50 0.9
1.0s 26.00nm 5.3mb
LMN 77.62 327 eP 21 27.00 3.1X
EMM 78.36 324 eP 21 27.78 -0.2
HRV 79.37 321 eP 21 33.86 0.3
1.3s 90.13nm 5.6mb
Z 18s 0.12um 4.2Msz
CBM 80.08 326 eP 21 37.16 -0.1
1.2s 32.24nm 5.2mb
Z 20s 0.20um 4.4Msz
GPD 80.33 318 eP 21 39.50 0.7
e 21 43.58
HBF 80.34 309 eP 21 39.36 0.4
BNH 80.40 323 eP 21 39.75 0.6
HFS 80.52 14 eP 21 38.70 -0.7
0.6s 5.30nm 4.7mb
Z 16s 0.12um 4.3MszX
LR 53 02.00
NB2 80.80 12 P 21 41.60 0.7
1.2s 40.20nm 5.3mb
CEH 80.81 312 eP 21 41.87 0.5
1.2s 49.05nm 5.4mb
Z 21s 0.29um 4.6Msz
UPP 81.24 16 iP 21 43.80 0.7
LHS 81.37 310 eP 21 45.46 1.1
CVL 81.39 314 eP 21 44.87 0.5
JSC 81.61 310 eP 21 46.26 0.6
RSNY 82.30 321 eP 21 49.47 0.4
1.3s 49.34nm 5.5mb
Z 19s 0.09um 4.1Msz
PRM 82.34 309 eP 21 50.35 0.9
NAV 82.69 313 eP 21 52.48 1.2
GOGA 82.86 308 P 22 00.00 7.9X
Z 21s 0.16um 4.4Msz
GAC 83.50 322 eP 22 00.50 5.4X
NUR 83.75 18 eP 21 56.00 -0.1
MYNC 84.08 309 eP 21 58.34 -0.1
1.6s 64.69nm 5.6mb
Z 20s 0.17um 4.4Msz
OBN 84.14 27 ePc 21 58.00 -0.1
1.5s 63.00nm 5.6mb
Z 20s 0.40um 4.8Msz
EEO 86.12 321 eP 22 11.00 2.7
MAIO 87.82 51 eP 22 18.00 1.1
eS 33 04.00
JAQ 88.05 329 ePd 22 16.70 -0.7
ELC 88.75 310 eP 22 20.23 -0.9
e 22 25.20
SDF 89.69 15 iP 22 26.00 1.0
OLY 89.75 307 eP 22 25.69 -0.3
FVM 89.89 310 ePc 22 26.68 0.1
0.9s 38.17nm 5.6mb
e 22 30.76
FRB 90.92 339 eP 22 31.00 0.3
MIAR 91.03 306 P 22 40.00 8.1X
Z 20s 0.13um 4.4Msz
QUE 91.45 59 eP 22 36.00 1.8
MEO 95.01 305 iPd 22 49.90 -0.3
LTX 97.60 298 eP 23 00.40 -1.8
ULM 97.78 320 eP 23 06.00 3.6X
FCC 99.38 329 eP 23 13.50 4.1X
ALO 101.29 303 Pdiff 23 30.00 11.0X

Z 20s 0.13um 4.4Msz
GOL 101.52 308 Pdiff 23 30.00 10.0X
Z 19s 0.12um 4.4Msz
RSSD 101.54 313 Pdiff 23 30.00 10.1X
Z 20s 0.16um 4.5Msz
TUC 104.25 300 Pdiff 23 40.00 8.0X
Z 21s 0.15um 4.5Msz
DUG 107.24 307 PKP 28 00.00 5.5X
Z 19s 0.14um 4.5Msz
YKA 109.90 331 ePdiff23 57.10 0.8
0.8s 0.40nm
ISA 111.09 302 PKP 28 10.00 8.2X
Z 18s 0.12um 4.5Msz
BJI 131.90 51 ePKP 28 42.00 0.7
1.5s 52.00nm
ASAJ 147.09 31 ePKP 29 10.80 2.3X
MRRJ 147.47 35 ePKP 29 12.40 3.2X
KUSJ 148.85 30 ePKP 29 15.10 3.7X
MTMJ 148.93 46 PKP 29 16.50 4.6X
MAT 149.23 46 ePKP 29 16.00 3.8X
NIIJ 149.40 44 ePKP 29 16.80 4.4X
YAMJ 149.55 42 PKP 29 17.80 5.2X
CHJJ 150.03 46 PKP 29 18.50 5.1X
S.D. = 0.8 on 260 of 284 obs.

MAY 02, 1993 02h 15m 54.92± 0.44s
47.337 N ± 4.5km 11.539 E ± 3.6km
DEPTH = 0.0km (geophysicist)
AUSTRIA (546)
ML 2.7 (LDG), 2.5 (GRF). Mine collapse.

WATA 0.03 94 iP 15 56.00 0.6
WTTA 0.10 138 iP 15 56.10 -0.8
SOTA 0.25 243 iP 16 01.10 1.1
MOTA 0.30 272 iP 16 01.50 0.7
i 16 09.20
SCE 0.32 159 iPgd 15 59.90 -1.4
OGA 0.59 217 ePg 16 06.60 0.0
FUR 0.85 348 iPgc 16 12.50 0.7
VOY 2.08 128 ePn 16 32.20 0.6
eSn 16 59.40
KHC 2.25 36 ePn 16 34.00 -0.1
ePg 16 39.40
e 16 58.00
Sg 17 08.50
GRF 2.37 355 e(Pn) 16 35.20 -0.5
ePg 16 40.10
eSg 17 11.00
CEY 2.56 128 ePn 16 39.00 0.7
e(Sn) 17 10.50
CDF 3.06 292 Pn 16 45.80 0.2
Sg 17 35.30
BSF 3.25 280 Pn 16 48.60 0.3
Sg 17 41.00
HAU 3.57 283 Pn 16 52.80 0.0
Sg 17 50.20
LPG 3.79 243 Pn 16 57.90 1.8
LPL 3.79 243 Pn 16 57.80 1.7
SBF 4.51 221 Pn 17 07.60 1.4
SMF 5.31 265 Pn 17 16.40 -1.1
AVF 5.62 267 Pn 17 21.00 -0.8
BGF 6.00 266 Pn 17 26.00 -1.2
MAF 6.26 263 Pn 17 29.50 -1.4
TCF 6.49 264 Pn 17 32.80 -1.3
CAF 7.01 253 Pn 17 40.30 -1.1
S.D. = 1.1 on 23 of 23 obs.

MAY 02, 1993 02h 57m 28.17± 0.70s
47.356 N ± 7.0km 11.604 E ± 5.0km
DEPTH = 0.0km (geophysicist)
AUSTRIA (546)
ML 2.7 (LDG). Mine collapse.

WATA 0.03 223 iP 57 29.90 1.2
i 59 07.00
WTTA 0.10 167 iP 57 30.00 -0.1
0.9s 1296.00nm
i 57 32.40
SOTA 0.30 243 iP 57 35.10 0.9
0.6s 633.00nm
i 59 12.10
SCE 0.33 167 iPgd 57 33.70 -1.0
iSg 57 38.40
MOTA 0.34 268 iP 57 35.50 0.5
0.5s 421.00nm
i 59 12.40

		i	59 21.20			
FVI	1.11	133 P	57 47.00	-2.9		
		eSg	58 00.00			
KBA	1.22	103 iP	57 48.90	-3.0X		
	0.5s	95.60nm				
		i	57 53.50			
		i	58 14.70			
		i	59 26.20			
		i	59 31.60			
		i	59 42.70			
		i	59 49.80			
CTI	1.31	179 P	57 53.00	-0.4		
		eSn	58 11.00			
RBL	1.63	123 P	57 58.00	-0.3		
		eSn	58 15.00			
MDI	2.05	220 P	58 08.00	3.7X		
VOY	2.06	129 ePn	58 05.70	1.2		
		e	58 11.70			
		eSn	58 33.50			
KHC	2.21	36 Pn	58 08.00	1.3		
		ePg	58 12.70			
		eSg	58 36.50			
		e	58 51.00			
TRI	2.22	137 eP	58 36.00	29.2X		
GRF	2.35	354 e(Pn)	58 13.70	5.0X		
		ePg	58 19.40			
		e(Sg)	58 45.40			
LJU	2.41	122 e(Pn)	58 12.50	3.0X		
		eSn	59 48.50			
		e	00 24.00			
VAI	2.46	234 P	58 11.80	1.7		
CEY	2.53	129 ePn	58 13.00	1.7		
		eSn	58 45.00			
CDF	3.10	292 Pn	58 20.00	0.6		
		Sg	59 08.70			
VBY	3.13	125 e(Pn)	58 29.20	9.5X		
PRU	3.28	35 eP	58 39.50	17.7X		
		eSg	59 12.00			
BSF	3.29	280 Pn	58 22.50	0.4		
		Sg	59 14.90			
MOX	3.29	0 e(P)	59 16.00	54.0X		
		e	59 57.50			
		e	00 52.10			
PTJ	3.33	114 eP	58 39.10	16.4X		
HAU	3.61	282 Pn	58 26.50	-0.1		
		Sg	59 25.80			
ZST	3.80	75 eP	59 13.70	44.4X		
		e	59 28.30			
		e	00 05.80			
		e	00 14.80			
		e	00 08.80			
LPG	3.84	243 Pn	58 31.60	1.5		
		Sn	59 14.70			
LPL	3.84	243 Pn	58 31.80	1.8		
BRG	3.84	23 i(P)	58 39.50	9.6X		
		e	59 27.30			
		i	00 17.70			
		e	01 06.00			
SBF	4.56	221 Pn	58 40.80	0.8		
KSP	4.65	40 eP	59 51.00	69.6X		
	1.0s	39.00nm				
		eS	01 32.00			
LBF	5.22	269 Pn	58 47.90	-1.5		
SMF	5.36	265 Pn	58 49.80	-1.6		
AVF	5.67	267 Pn	58 54.60	-1.1		
BGF	6.05	266 Pn	58 59.90	-1.2		
TCF	6.54	264 Pn	59 06.40	-1.6		
CAF	7.06	253 Pn	59 13.50	-1.8		
	S.D. = 1.4	on 24 of 36 obs.				

MAY 02, 1993 02h 59m 04.87± 0.38s
47.410 N ± 3.6km 11.679 E ± 3.1km
DEPTH = 0.0km (geophysicist)
AUSTRIA (546)
ML 3.6 (VIE), 3.3 (LDG). MD 3.4 (TRI). Mine collapse.

WTTA	0.15	191 iP	59 07.00	-0.9		
	1.0s	4663.00nm				
SCE	0.37	177 iPgd	59 10.70	-1.6		
OGA	0.70	220 iPgd	59 17.60	-1.3		
FVI	1.11	137 P	59 25.00	-1.6		
		eSg	59 38.00			
OSS	1.28	236 eP	59 27.90	-1.7		
CTI	1.36	181 P	59 31.00	0.0		
		eSg	59 50.00			
RBL	1.62	126 P	59 33.00	-1.8		
		eSg	59 51.00			
VDL	1.77	239 eP	59 39.00	1.8		
KMR	1.78	68 iPg-	59 39.50	2.4		
		iSg	00 03.90			
WET	1.91	24 ePn	59 38.50	-0.6		
SAL	1.97	204 P	59 41.50	1.7		
		eSn	00 08.00			
VOY	2.06	131 e(Pn)	59 41.90	0.7		
		eSn	00 11.50			
MDI	2.12	220 P	59 44.00	2.0		
		eSn	00 13.00			
KHC	2.14	36 ePn	59 43.60	1.2		
	0.4s	131.50nm	5.1mb			
		Pg	59 49.00			
		eSn	00 08.30			
		eSg	00 14.70			
		e	00 25.70			
TRI	2.23	139 e(Pn)	59 43.90	0.3		
		e(Sn)	00 12.30			
		e	00 15.70			
TRI	2.23	139 eP	00 12.00	28.4X		
TMA	2.33	237 eP	59 46.90	1.7		
CEY	2.53	130 e(Pn)	59 47.30	-0.6		
		eSn	00 21.50			
VAI	2.53	233 P	59 51.00	3.1X		
RIY	2.79	137 eP	59 51.20	-0.4		
MMK	2.89	243 ePc	59 55.10	1.8		
HOF	2.91	3 eP	59 59.30	6.0X		
BOB	3.07	211 P	59 58.40	2.8X		
ORO	3.12	236 P	00 00.00	3.7X		
VBY	3.12	126 ePn	59 56.70	0.4		
CDF	3.13	290 Pn	59 57.20	0.8		
		Sg	00 46.00			
PRU	3.20	35 ePn	00 04.10	6.7X		
	0.5s	17.60nm	4.4mb			
		ePg	00 08.60			
		e	00 14.50			
		e	00 30.90			
		eSg	00 46.20			
DIX	3.22	247 eP	59 58.60	0.6		
VKA	3.24	73 iPgc	00 06.90	8.9X		
		iSg	00 50.00			
BSF	3.33	279 Pn	00 00.00	0.6		
		Sg	00 52.80			
BDI	3.43	193 P	00 01.80	1.0		
SFI	3.49	178 P	00 02.00	0.4		
RSM	3.52	171 P	00 02.00	0.0		
TNS	3.53	324 ePnc	00 03.50	1.3		
		ePgc	00 17.20			
		eSn	00 45.60			
PGD	3.54	179 P	00 03.70	1.3		
PCP	3.61	218 P	00 03.91	0.7		
HAU	3.65	281 Pn	00 03.90	0.1		
		Sg	01 03.40			
LSD	3.69	240 P	00 06.01	1.4		
PII	3.78	193 P	00 06.10	0.5		
CRE	3.79	177 P	00 07.00	1.1		
		eSn	00 47.00			
RSP	3.81	235 P	00 08.71	2.5		
CKI	3.81	220 P	00 08.20	2.0		
LPG	3.91	242 Pn	00 08.70	0.9		
		Sn	00 51.20			
LPL	3.91	243 Pn	00 08.60	0.9		
		Sn	00 51.30			
CLL	4.00	12 ePn	00 08.00	-0.7		
		iPg	00 23.70			
		iSg	01 14.30			
BHB	4.00	232 P	00 10.54	1.7		
ARV	4.01	167 P	00 08.20	-0.8		
FIN	4.02	218 P	00 08.21	-0.8		
ROB	4.10	222 P	00 10.91	0.7		
BNI	4.20	238 P	00 14.20	2.5		
RRL	4.21	236 P	00 11.96	-0.1		
PZZ	4.32	229 P	00 13.06	-0.3		
IMI	4.39	219 P	00 13.06	-1.4		
ASS	4.39	171 P	00 14.40	-0.1		
SRO	4.51	82 eP	00 26.90	11.0X		
SBF	4.63	222 Pn	00 18.30	0.5		
		Sn	01 08.60			
UZD	4.79	97 e(P)	00 28.00	7.9X		
ENN	5.06	314 eP	00 24.50	0.7		
	1.4s	64.90nm	5.1mb			
MNS	5.08	172 P	00 23.20	-0.9		
PGF	5.22	202 Pn	00 25.90	-0.3		
		Sn	01 22.70			
FRF	5.23	224 Pn	00 27.30	1.1		
LBF	5.27	268 Pn	00 26.40	-0.4		
		Sn	01 24.40			
		Sg	01 55.20			
LOR	5.32	271 Pn	00 27.80	0.3		
		Sg	01 56.50			
DOU	5.40	302 P	00 29.10	0.4		
HVAR	5.41	140 iP	00 26.60	-2.1		
SMF	5.41	265 Pn	00 27.50	-1.4		
LRG	5.44	225 Pn	00 29.40	0.1		
LMR	5.47	224 Pn	00 29.60	0.0		
WTS	5.57	327 ePn	00 39.00	8.0X		
	0.8s	6.80nm	4.4mb			
SSF	5.58	269 Pn	00 30.00	-1.2		
		Sn	01 31.50			
		Sg	02 04.50			
AVF	5.72	267 Pn	00 31.50	-1.6		
SPC	5.99	70 eP	00 44.80	7.7X		
BGF	6.10	265 Pn	00 36.70	-1.8		
HYF	6.15	272 Pn	00 38.30	-0.8		
		Sg	02 23.10			
MAF	6.37	263 Pn	00 40.40	-1.9		
TCF	6.59	264 Pn	00 43.80	-1.7		
		Sn	01 58.10			
LSF	7.06	264 Pn	00 50.40	-1.6		
CAF	7.12	253 Pn	00 51.00	-1.9		
RJF	7.34	257 Pn	00 54.70	-1.2		
LPO	7.79	253 Pn	01 00.60	-1.6		
LFF	7.98	256 Pn	01 04.20	-0.7		
MFF	8.12	269 Pn	01 05.10	-1.8		
OHR	9.08	131 eP	01 20.00	-0.2		
	S.D. = 1.3	on 72 of 83 obs.				

MAY 02, 1993 03h 27m 59.30± 0.58s
38.851 N ± 5.2km 27.758 E ± 6.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 3.2 (ISK).

IZM	0.60	221 iPg	28 11.50	0.1		
		iSg	28 22.50			
CIN	1.28	168 ePn	28 22.00	-1.0		
		iSg	28 41.00			
KCT	1.47	18 iPn	28 25.60	-0.3		
EZN	1.48	312 iPn	28 26.70	0.8		
KHL	1.48	110 ePn	28 27.20	1.1		
EDC	1.50	3 iPn	28 26.00	-0.2		
BNT	1.51	5 ePn	28 25.70	-0.7		
ALT	1.85	83 ePn	28 31.40	0.0		
EYL	2.52	46 ePn	28 41.00	-0.1		
	S.D. = 0.8	on 9 of 9 obs.				

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* MAY 02, 1993 04h 06m 58.93± 0.61s
11.527 S ± 9.8km 112.116 E ±21.7km
DEPTH = 33.0km (normol)
4.8mb (2 obs.)
SOUTH OF JAWA, INDONESIA (282)

SJI	3.78	355 iPd	07 54.50	-1.8		
		eS	08 28.00			
TRT	3.83	8 ePd	07 57.50	0.5		
		iS	08 35.60			
KHKI	4.66	48 ePd	08 16.80	8.0X		
		eS	09 07.80			
		e	11 30.00			
LEM	6.44	316 iPc	08 00.50	-33.7X		
NANU	11.45	164 eP	09 42.30	-0.9		
		eS	11 42.00			
MBL	12.10	143 eP	09 52.00	-0.1		
	0.3s	8.00nm	5.4mb X			
		eS	11 56.00			
MEEK	16.23	159 eP	10 46.00	-0.2		
		eS	13 35.00			
MRWA	17.97	169 eP	11 14.00	6.0X		
		eS	14 16.00			
MUN	20.70	170 eP	11 48.00	9.0X		
		eS	15 26.00			
COOL	21.00	158 eP	11 49.00	6.9X		
		eS	15 23.00			
WB2	22.96	114 eP	12 07.40	5.7X		
	0.6s	4.80nm	4.2mb			
PKI	46.70	327 P	15 27.00	-0.1		
GUN	46.72	327 P	15 27.80	0.6		
	0.5s	20.00nm	5.4mb			
DMN	46.89	326 P	15 28.60	0.1		
KKN	46.94	327 P	15 28.20	-0.6		
GKN	47.46	326 P	15 33.00	0.1		
YKA	119.20	23 ePKP	25 48.30	2.5		
	0.8s	0.60nm				

02d 04h

S.D. = 1.2 on 11 of 17 obs.

? MAY 02, 1993 04h 09m 36.68± 6.10s
19.067 N ±42.3km 66.127 W ±14.8km
DEPTH = 10.0km (geophysicist)
PUERTO RICO REGION (90)

LPR	0.79	162	P	09 52.40	0.3
APR	0.84	223	P	09 53.20	0.4
SJG	0.95	181	iP	09 55.00	0.2
			S	10 11.00	
LRS	1.03	222	P	09 56.00	-0.1
CPD	1.04	169	P	09 56.00	-0.4
CLLP	1.07	204	P	09 57.00	0.2
PORP	1.12	206	P	09 57.30	-0.4
MGP	1.39	221	(P)	10 02.00	-0.1

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

MAY 02, 1993 04h 26m 39.90± 0.33s
38.951 N ±13.0km 55.492 E ± 6.6km
DEPTH = 33.0km (normal)
4.5mb (21 obs.) 3.5Msz (3 obs.)
TURKMENISTAN-IRAN BORDER REGION (341)

MAIO	4.14	129	iPnc	27 41.30	-1.1
	0.7s	73.70nm			
			eSn	28 57.00	
TEH	4.58	227	e(P)	27 13.00	-35.8X
OBN	20.55	328	eP	31 17.00	-1.0
	0.9s	37.00nm		4.8mb	
Z	12s	0.50um		4.1MszX	
N	12s	0.70um			
E	12s	0.50um			
			ePPP	31 54.00	
			eS	35 02.00	
NDI	20.71	113	eP	31 12.00	-7.8X
CFR	21.37	296	eP	31 23.00	-1.4
CVO	22.63	297	eP	31 42.00	2.9X
MLR	22.76	296	eP	31 40.00	-0.4
CMP	23.37	296	ePd	31 51.00	4.7X
VAY	25.20	286	iP	32 04.70	0.8
SKO	25.98	288	iP	32 11.50	0.3
GKN	26.54	105	P	32 16.60	-0.1
OHR	26.55	286	eP	32 10.00	-6.5X
DMN	27.10	106	P	32 22.40	0.5
KKN	27.14	105	P	32 24.20	2.0
PKI	27.35	105	P	32 25.00	0.7
GUN	27.53	104	P	32 25.40	-0.5
OJC	27.55	306	eP	32 25.60	0.2
SRO	28.21	300	eP	32 33.30	1.9
ZST	29.05	301	e(P)	32 39.30	0.4
DUI	31.20	288	P	32 58.30	0.0
BRG	31.33	306	eP	33 01.00	1.8
GEC2	31.34	302	eP	32 59.00	-0.4
	1.1s	3.27nm		4.1mb	
RBL	31.41	298	P	33 00.40	0.4
AQU	31.88	290	P	33 05.10	1.0
ARV	32.06	292	P	33 05.90	0.2
ASS	32.32	291	P	33 09.00	1.0
MNS	32.40	290	P	33 09.90	1.2
CTI	32.76	297	P	33 12.90	1.1
CRE	32.76	292	P	33 13.70	1.8
MOX	32.79	305	eP	33 12.50	0.5
SFI	32.80	293	P	33 13.30	1.2
PGD	32.90	293	P	33 14.50	1.3
GRF	33.00	304	eP	33 13.00	-0.8
Z	24s	0.10um		3.4MszX	
HFS	33.59	323	eP	33 18.20	-0.6
	0.4s	1.40nm		4.2mb	
Z	19s	0.12um		3.6Msz	
			LR	45 26.00	
BDI	33.68	293	P	33 20.20	0.3
BOB	34.42	295	P	33 32.80	6.6X
NB2	35.05	324	P	33 30.00	-1.4
	0.7s	1.10nm		3.9mb	
PGF	35.06	291	eP	33 30.00	-1.8
	1.1s	10.00nm		4.7mb	
BSF	35.96	300	eP	33 39.30	-0.1
	0.8s	3.65nm		4.4mb	
LPG	36.22	297	eP	33 41.50	-0.3
	1.2s	12.20nm		4.7mb	
LPL	36.23	297	eP	33 40.80	-1.0
	1.0s	7.20nm		4.5mb	
HAU	36.25	301	eP	33 40.40	-1.3
	0.9s	7.85nm		4.6mb	
Z	21s	0.05um		3.3Msz	
FRF	36.59	293	eP	33 43.60	-0.9
	0.8s	12.20nm		4.8mb	
LBF	37.95	299	eP	33 55.70	-0.3
	0.9s	5.40nm		4.4mb	
LOR	37.99	300	eP	33 56.00	-0.3
	0.8s	2.95nm		4.2mb	
Z	22s	0.08um		3.5Msz	
SMF	38.08	299	eP	33 56.50	-0.6
	1.0s	9.40nm		4.6mb	
LZH	38.11	79	eP	33 58.50	0.9
	1.5s	30.00nm		4.9mb	
Z	10s	0.48um		4.6MszX	
E	10s	0.28um			
SSF	38.26	300	eP	33 58.50	0.0
	1.1s	8.05nm		4.5mb	
AVF	38.40	299	eP	33 59.10	-0.6
	0.9s	10.80nm		4.7mb	
MAF	39.02	29B	eP	34 04.80	-0.1
	0.9s	7.70nm		4.5mb	
TCF	39.25	299	eP	34 06.80	-0.1
	1.2s	16.65nm		4.7mb	
EKA	41.79	313	P	34 32.00	4.4X
	0.8s	5.00nm		4.3mb	
KIC	63.02	255	P	37 05.10	-1.0
LIC	63.32	256	P	37 07.10	-1.0
MBC	65.04	359	eP	37 22.00	3.5X
INK	72.85	3	eP	38 11.00	4.3X
YKA	78.59	355	eP	38 38.20	-1.1
	0.8s	2.00nm		4.2mb	
WRA	94.04	112	P	39 54.50	-1.6
	0.8s	0.90nm		4.3mb	

S.D. = 1.0 on 49 of 58 obs.

MAY 02, 1993 04h 26m 40.73± 0.79s
37.172 N ± 8.1km 28.332 E ± 7.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 3.5 (ISK).

YER	0.05	227	iPg	26 43.00	0.0
CIN	0.47	336	ePn	26 32.00	-18.3X
			iSg	26 58.00	
ELL	1.33	108	ePn	27 04.60	-0.8
KHL	1.49	39	iPn	27 07.20	-0.4
IZM	1.49	326	iPn	27 08.00	0.4
BCK	1.82	80	iPn	27 13.80	1.4
ALT	2.35	36	ePn	27 20.00	0.0
KCT	3.07	0	ePn	27 29.60	-0.6

S.D. = 0.9 on 7 of 8 obs.

* MAY 02, 1993 05h 39m 12.67± 0.94s
33.167 S ± 7.5km 68.753 W ±26.5km
DEPTH = 33.0km (normal)
MENDOZA PROVINCE, ARGENTINA (139)

MDZ	0.29	344	eP	39 16.90	-3.6X
			iS	39 36.40	
RTBS	1.61	338	e(P)c	39 39.30	0.1
CFA	1.62	16	ePd	39 39.50	0.2
			S	40 01.70	
RFA	1.62	172	eP	39 39.30	0.0
			S	40 04.60	
RTCB	1.68	359	eP	39 40.00	-0.2
			S	40 03.50	
RTLL	1.85	8	ePc	39 42.50	-0.2
			S	40 08.50	
MRA	2.67	74	e(P)	40 00.40	6.1X
			S	40 37.80	

S.D. = 0.3 on 5 of 7 obs.

? MAY 02, 1993 05h 51m 58.95± 2.79s
32.387 S ±22.8km 69.013 W ±17.3km
DEPTH = 33.0km (normal)
MENDOZA PROVINCE, ARGENTINA (139)

RTBS	0.81	333	iPd	52 14.00	0.1
RTCB	0.92	11	iPd	52 15.80	0 2
			S	52 30.20	
CFA	1.02	40	ePd	52 17.60	0.6
			S	52 33.70	
RTLL	1.15	24	iPc	52 18.00	-0.8
			S	52 34.00	
MRA	2.80	91	ePc	52 42.20	-0.1
			S	53 18.00	
RTPR	2.98	47	e(P)d	52 40.80	-4.2X
			S	53 15.10	

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

* MAY 02, 1993 06h 14m 03.79± 0.82s
51.137 N ±14.9km 179.162 E ± 8.6km
DEPTH = 33.0km (normal)
4.2mb (7 obs.)
RAT ISLANDS, ALEUTIAN ISLANDS (6)

ADK	2.70	72	eP	14 46.39	0.6
			S	15 19.16	
SMY	3.51	299	eP	14 58.51	1.1
			S	15 43.19	
RSO	18.20	48	(P)	18 15.64	0.2
SLKM	19.42	49	eP	18 27.81	-2.0X
KLU	21.69	48	eP	18 51.92	-1.5X
FBA	21.93	39	eP	18 55.42	-0.2
	0.7s	2.69nm		3.8mb	
INK	28.39	35	eP	19 57.00	0.4
MBC	34.31	22	eP	20 48.50	-0.1
	0.8s	2.00nm		4.1mb	
YKA	36.32	46	eP	21 04.30	-1.5
	0.4s	1.00nm		4.1mb	
DUG	47.17	76	eP	22 35.23	0.3
	0.5s	1.43nm		4.2mb	
			e	22 38.89	
BW06	47.60	71	eP	22 38.20	-0.2
	0.6s	2.59nm		4.4mb	
GSC	47.75	83	(P)	22 40.04	0.6
MSU	48.59	77	eP	22 46.75	0.6
			e	22 50.57	
SRU	49.23	75	eP	22 51.47	0.5
PV09	50.46	75	eP	23 00.20	-0.4
PV10	50.60	75	eP	23 01.74	0.2
			e	23 05.42	
FRB	53.90	31	eP	23 27.50	2.0
EEO	61.68	50	eP	24 24.00	3.4X
NB2	67.76	354	P	24 58.00	-1.7
	0.7s	1.20nm		4.1mb	
EMM	68.48	45	eP	25 02.27	-2.1
STK	89.05	211	eP	26 56.00	-0.3
	0.8s	2.90nm		4.7mb	

S.D. = 1.1 on 18 of 21 obs.

MAY 02, 1993 06h 15m 50.55± 0.93s
34.192 N ± 9.5km 24.260 E ± 5.6km
DEPTH = 40.1 ± 9.6 km
3.9mb (11 obs.)
CRETE (370)
MD 4.3 (HLW), 4.1 (ATH).

NPS	1.54	46	ePb	16 18.00	2.0
VLI	2.74	337	ePn	16 34.50	1.4
ATH	3.80	354	ePn	16 48.00	-0.1
YER	4.40	47	iP	16 57.00	0.3
CIN	4.61	41	eP	17 00.00	0.5
IZM	4.85	29	iP	17 01.70	-1.3
VAY	7.24	350	iP	17 42.80	6.2X
OHR	7.43	339	ePn	17 35.50	-3.8X
CSS	7.52	82	eP	17 41.10	0.6
			eS	19 01.30	
SOI	7.68	303	P	17 43.30	0.5
KOT	7.70	121	ePn	17 44.00	1.0
LCI	7.93	322	P	17 42.80	-3.3X
ROI	8.17	313	P	17 49.00	-0.6
CZI	8.23	310	P	17 50.20	-0.1
TDS	8.37	313	P	17 52.00	-0.2
CSI	8.47	313	P	17 55.20	1.5
BRT	8.71	322	P	17 54.10	-2.9
MGR	9.13	313	P	18 01.50	-1.3
RMN	9.51	110	eP	18 06.60	-1.5
SGO	9.54	314	P	18 07.70	-0.7
HRI	9.61	92	eP	18 09.70	0.3
DSI	9.71	103	eP	18 09.50	-1.3
PRNI	9.86	110	eP	18 12.70	-0.2
SBF	16.23	311	eP	19 39.70	2.5X
	0.6s	4.50nm		3.8mb	
GEC2	16.61	335	Pn	19 44.40	2.3X
KHC	16.90	335	eP	19 46.50	0.9
			e	19 52.00	
HAU	19.24	321	eP	20 14.00	-0.2
LBF	19.94	316	eP	20 21.90	0.0
	0.6s	1.80nm		3.6mb	
LOR	20.16	316	eP	20 24.00	-0.2
	0.8s	3.75nm		3.8mb	
TCF	20.64	312	eP	20 30.10	1.0
	0.9s	4.10nm		3.8mb	
MFF	22.24	311	eP	20 46.70	1.6
	0.6s	2.25nm		3.8mb	
LDF	23.14	316	eP	20 54.50	0.5

0.6s 5.75nm 4.2mb
LPF 23.41 314 eP 20 58.00 1.4
0.7s 7.40nm 4.3mb
FLN 23.43 316 eP 20 57.40 0.6
0.8s 9.25nm 4.3mb
HFS 26 86 348 eP 21 27.10 -2.0
0.6s 3.70nm 4.2mb
NB2 28.15 347 P 21 38.90 -2.0
0.5s 1.40nm 3.9mb
GKN 51.42 79 P 24 54.20 0.2
DMN 51.96 80 P 24 58.60 0.4
KKN 52.03 79 P 24 58.60 -0.1
YKA 78.14 342 eP 27 46.90 0.2
0.3s 0.10nm 3.3mb
S.D. = 1.2 on 35 of 40 obs.

? MAY 02, 1993 06h 20m 14.47± 1.94s
4.413 S ±21.8km 119.874 E ±19.0km
DEPTH = 59.9 ± 28.1 km
4.3mb (1 obs.)
SULAWESI, INDONESIA (268)

MKS 0.90 207 iPc 20 30.50 -0.7
iS 20 43.00
WSI 5.25 175 ePc 21 33.00 0.8
KHKI 5.78 227 eP 21 40.00 0.4
eS 23 11.00
e 26 11.60
SWI 11.91 73 ePc 23 04.00 0.2
WB2 20.91 139 iPc 24 53.70 -0.6
0.8s 13.00nm 4.3mb
e 26 08.90
S.D = 1.3 on 5 of 5 obs.

? MAY 02, 1993 06h 32m 41.00± 3.93s
14.411 N ±49.8km 91.933 W ±15.1km
DEPTH = 10.0km (geophysicist)
4.0mb (6 obs.)
GUATEMALA (70)

OXX 5.32 301 iP 34 00.00 -2.7
iS 35 02.00
IISM 6.92 312 iP 34 26.00 1.0
(S) 35 24.00
PPM 7.91 307 iP 34 42.50 3.2X
III 8.24 300 iP 34 43.00 -0.6
UNM 8.49 306 (P) 34 54.00 6.7X
MRX 10.30 302 (P) 35 14.00 2.1X
LTX 18.39 326 eP 36 59.33 1.4
MIAR 20.10 356 eP 37 16.19 -1.5
0.5s 1.73nm 3.6mb
OLY 21.01 1 (P) 37 26.53 -0.6
MYNC 21.74 17 (P) 37 33.46 -1.1
0.5s 2.98nm 4.0mb
JSC 22.01 24 (P) 37 40.15 2.9X
ALQ 24.28 330 eP 38 01.33 1.7
0.5s 1.67nm 3.9mb
TUC 24.77 319 (P) 38 07.44 3.1X
0.8s 1.90nm 3.8mb
PV08 28.24 332 eP 38 37.99 1.3
PV10 28.26 331 (P) 38 37.67 0.9
EMUT 30.25 330 (P) 38 52.88 -1.7
DAU 30.92 331 eP 39 01.48 0.9
LCCM 35.55 336 eP 39 41.50 1.0
YKA 50.64 347 eP 41 41.10 -1.0
0 6s 3.60nm 4.5mb
INK 60.06 343 eP 42 50.50 0.3
0.9s 2.00nm 4.2mb
M8C 63.52 353 eP 43 14.00 0.7
pP 43 49.00 146kmX
S.D. = 1.4 on 16 of 21 obs.

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* MAY 02, 1993 07h 17m 51.09± 0.64s
33.774 S ± 8.5km 70.983 W ± 8.9km
DEPTH = 80.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)
MD 4.0 (SAN).

TACH 0.13 18 iP 18 02.55 -0.4
iS 18 10.67
CHCH 0.32 120 iP 18 03.55 -0.2
iS 18 12.28
LNV 0.40 243 iP 18 04.57 0.4
iS 18 13.64
SAN 0.42 40 iP 18 03.97 -0.4
iS 18 12.78
PCH 0.42 69 iP 18 03.96 -0.5
iS 18 12.89
LCCH 0.57 301 iP 18 05.97 0.3
iS 18 16.54
PEL 0.68 22 iP+ 18 06.12 -0.6
iS 18 17.03
FCH 0.73 53 iP 18 07.13 -0.5
iS 18 19.42
ROCH 0.80 358 iP 18 08.05 -0.3
iS 18 19.90
JACH 1.14 17 iP 18 11.81 -0.4
iS 18 26.53
RFA 2.31 116 eP 18 28.30 0.4
RTBS 2.47 32 ePd 18 32.00 2.0
S.D. = 0.8 on 12 of 12 obs.

MAY 02, 1993 07h 41m 59.92± 0.23s
47.581 N ± 5.1km 152.923 E ± 3.9km
DEPTH = 28.1km (15 depth phases)
5.2mb (77 obs.) 4.3Msz (8 obs.)
KURIL ISLANDS (221)

KUSJ 7.32 235 P 43 49.90 2.3
eS 45 05.70
ASAJ 7.97 248 P 44 04.50 7.8X
HOOJ 8.58 236 eP 44 07.90 2.8
eS 45 37.70
MRRJ 9.85 243 eP 44 26.20 3.6X
eS 46 10.10
OFUJ 11.79 228 P 44 48.00 -1.2
S 46 49.20
YAMJ 13.31 230 P 45 08.80 -0.6
eS 47 27.80
NIIJ 14.55 230 P 45 25.20 -0.5
CHJJ 15.48 227 eP 45 37.80 0.0
MAT 15.50 230 eP 45 39.00 0.9
0.8s 14.18nm 4.2mb
eS 48 29.00
MTMJ 15.68 231 eP 45 41.20 0.8
TSRJ 17.43 232 eP 46 04.10 1.6
YAK 19.53 326 iPd 46 29.00 1.2
1.2s 151.00nm 5.2mb
i 47 32.00
e(S) 50 06.00
e 50 52.00
e 57 48.00
ADK 20.03 66 eP 46 33.36 0.2
1.3s 66.04nm 4 8mb
BJI 27.37 268 eP 47 45.50 1.1
1.0s 33.00nm 5.0mb
eS 53 10.00
TTA 31.89 42 eP 48 26.60 1.9
0.8s 14.90nm 4.9mb
SVW 31.98 46 eP 48 27.28 1.8
IMA 33.22 37 eP 48 37.90 1.7
0.8s 12.51nm 4.9mb
BRW 33.28 27 eP 48 38.81 2.3
KDC 33.74 52 eP 48 40.80 0.2
FBA 35.59 39 eP 48 58.34 1.8
1.9s 8.40nm 4.3mb
epP 49 06.09 26km
LZH 37.74 271 eP 49 15.00 -0.1
1.5s 137.00nm 5.6mb
pP 49 34.00 79kmX
INK 41.02 33 ePc 49 45.50 3.8X
0.7s 7.00nm 4.5mb
TGY 42.67 229 eP 50 03.00 7.2X
MBC 43.86 20 eP 50 07.00 2.2
0.5s 7.00nm 4.7mb
HON 47.19 106 P 50 40.00 8.1X
Z 21s 0.37um 4.3Msz
YKA 50.34 37 eP 50 56.20 0.5
0.8s 4.70nm 4.5mb
CHG 52.19 256 ePc 51 10.00 -0.3
1.0s 15.50nm 4.9mb
e 53 01.00 597kmX
GUN 54.80 274 Pc 51 29.20 -0.8
KKN 55.29 275 Pc 51 32.40 -0.9
PKI 55.34 274 Pc 51 33.00 -0.9
DMN 55.52 275 Pc 51 34.60 -0.5
GKN 55.58 275 Pc 51 35.00 -0.4
DAG 55.81 358 eP 51 36.00 -0.2
0.9s 22.69nm 5.2mb
DPW 56.42 54 eP 51 40.67 -0.4
NEW 56.78 53 iPc 51 43.68 0.0
1.0s 16.70nm 5.0mb
epP 51 51.70 26km
LBFM 58.19 62 iPd 51 54.10 0.3
WDC 58.27 63 P 52 00.00 5.9X
Z 21s 0.38um 4.5Msz
SDF 58.45 339 iP 51 53.80 -1.2
ORV 59.53 63 eP 52 01.81 -1.1
FCC 60.64 33 eP 52 11.50 1.3
pP 52 22.50 37km
LCCM 61.10 53 eP 52 12.10 -1.6
CMB 61.16 64 eP 52 13.99 -0.1
1.5s 29.11nm 5.2mb
KVN 61.89 62 eP 52 19.05 -0.2
epP 52 27.29 27km
MEMM 62.27 64 eP 52 21.73 0.2
epP 52 29.80 26km
KAF 62.64 335 iP 52 22.10 -1.5
0.5s 9.00nm 5.2mb
TNP 63.04 62 eP 52 26.67 -0.2
0.8s 15.39nm 5.2mb
HVU 63.22 57 eP 52 28.01 0.0
DUG 64.24 58 eP 52 34.58 -0.1
1.2s 26.85nm 5.2mb
Z 19s 0.21um 4.3Msz
epP 52 44.08 31km
FRB 64.31 19 eP 52 33.50 -1.0
0.5s 7.00nm 5.0mb
BW06 64.36 54 iPd 52 34.96 -0.5
0.9s 9.41nm 4.9mb
ipP 52 43.20 26km
NUR 64.40 334 iP 52 33.70 -1.5
0.4s 9.70nm 5.3mb
OBN 64.55 325 eP 52 34.00 -2.2
1.4s 72.00nm 5.6mb
DAU 64.99 57 ePd 52 39.50 -0.2
GSC 65.12 64 eP 52 39.66 -0.6
epP 52 48.31 28km
ARUT 65.48 60 ePd 52 42.44 -0.3
MSU 65.73 59 iPd 52 44.22 -0.2
ipP 52 52.86 28km
PEC 65.84 66 eP 52 43.45 -1.4
1.1s 32.96nm 5.4mb
ULM 65.98 41 eP 52 47.50 2.0
SRU 66.28 58 ePd 52 47.43 -0.4
epP 52 56.21 28km
RSSD 66.39 50 eP 52 47.75 -0.7
1.0s 18.53nm 5.2mb
epP 52 56.26 27km
MOL 66.78 343 eP 52 49.80 -0.6
AKU 66.86 356 iP 52 52.60 1.8
1.0s 44.00nm 5.5mb
UPP 66.89 337 iP 52 50.10 -1.0
0.9s 2000.00nm 7.2mb X
NB2 67.40 341 P 52 53.70 -0.7
0.6s 59.60nm 5.9mb
PV09 67.49 57 eP 52 55.24 -0.4
PV10 67.63 57 eP 52 56.43 -0.1
HFS 67.63 339 eP 52 54.80 -1.0
0.6s 131.00nm 6.2mb X
NAO 67.68 341 P 52 53.20 -2.9
PV08 67.71 57 ePd 52 56.47 -0.7
GOL 68.76 54 P 53 10.00 6.5X
Z 21s 0.15um 4.2Msz
GLD 68.81 54 eP 53 04.19 0.5
0.3s 62.46nm 6.2mb
epP 53 13.87 31km
KONO 69.01 341 iPc 53 04.80 0.5
GBA 70.31 269 P 53 11.00 -1.9
TUC 70.81 63 eP 53 15.40 -0.5
1.1s 16.05nm 5.0mb
JAQ 70.90 28 eP 53 23.50 7.5X
ALQ 71.51 58 eP 53 19.59 -0.6
1.1s 9.33nm 4.8mb
BSD 71.75 336 iPd 53 21.70 0.7
0.5s 56.00nm 5.9mb
OJC 74.53 331 eP 53 37.30 -0.1
PPE 75.05 324 iPc 53 40.00 -0.4
KSP 75.10 333 iPc 53 40.20 -0.5
0.7s 41.00nm 5.6mb
SPC 75.27 330 eP 53 42.80 0.9
EKA 75.50 346 Pd 53 43.70 0.8
1.0s 20.50nm 5.1mb
CLL 75.65 335 iPc 53 43.10 -0.7
0.9s 71.00nm 5.7mb
eSg 01 35.00
CFR 75.68 323 eP 53 43.00 -1.0
VRI 75.69 324 iPc 53 44.50 0.4
EEO 75.75 34 eP 53 46.00 1.6
MLR 76.31 325 iPc 53 48.00 0.2
ISR 76.37 324 ePd 53 49.00 1.0

02d 07h

PRU	76.38	334	iPc	53	48.00	0.1			1.0s	17.60nm		5.0mb	PJG	2.30	184	Pn	45	30.80	-0.3
	0.6s	17.00nm				5.2mb	HYF	82.04	340	eP	54	18.70	0.2			e	45	36.50	
MOX	76.64	336	iPd	53	49.80	0.4	LPF	82.11	343	eP	54	19.10	0.3	GUA	2.35	183	eP	45	31.40	-0.4
	1.2s	29.00nm				5.2mb		1.0s	33.40nm			5.3mb		0.8s	549.25nm				
			eSg	02	08.60		AVF	82.32	339	eP	54	20.00	0.0	KAGJ	19.96	322	eP	49	31.10	3.6X
WTS	76.65	339	eP	53	49.50	0.2		1.0s	28.20nm			5.3mb		WKYJ	20.13	337	eP	49	31.00	1.7
	0.7s	25.30nm				5.4mb	SMF	82.34	339	eP	54	20.10	0.0	TKSJ	20.55	333	eP	49	36.00	2.4
CMP	76.85	325	ePd	53	51.00	0.3		1.2s	57.70nm			5.5mb		DAV	20.96	248	eP	49	36.00	-1.9
HOF	76 86	336	iPd	53	50.90	0.3	BOB	82.59	335	P	54	21.90	0.4	KUMJ	20.99	325	P	49	38.50	0.4
SRO	77.10	331	eP	53	53.00	1.1	LSD	82.60	336	P	54	22.15	0.4	MAT	21.44	345	eP	49	40.00	-2.7
ZST	77.17	331	iP	53	53.00	0.7	SFI	82.64	333	P	54	22.90	1.3		1.0s	24.00nm				4.6mb
	0.8s	18.00nm				5.2mb	LPL	82.66	337	eP	54	22.20	0.1				eS	53	46.00	
LTX	77.20	61	eP	53	51.00	-1.9		0.9s	12.30nm			5.0mb	SWI	21.50	221	ePc	49	44.50	1.1
			epP	54	00.32	30km	BGF	82.66	340	eP	54	21.80	0.0	YONJ	21.83	334	eP	49	46.40	-0.2
KHC	77.43	334	P	53	54.00	0.2		0.6s	4.35nm			4.7mb	SHNJ	22.06	328	P	49	49.90	1.1
	0.8s	10.50nm				4.9mb	LPG	82.67	337	eP	54	22.40	0.2	YAMJ	22.63	350	eP	49	55.80	1.4
			e	54	00.00	19km		1.2s	26.20nm			5.2mb	OFUJ	23.29	353	eP	50	00.70	-0.2
DMU	77.46	348	iPd	53	54.90	1.1	ARV	82.68	332	P	54	21.60	-0.3	BCP	23.46	275	eP	50	07.20	4.3X
GRF	77.61	336	iPc	53	55.80	1.1	RSP	82.85	336	P	54	23.25	0.3	BAG	23.49	275	ePc+	50	03.20	0.0
	0.8s	50.00nm				5.6mb	CRE	82.87	333	P	54	24.00	1.0		2.0s	352.94nm				5.5mb
WET	77.63	334	iPd	53	55.60	0.7	BDI	82.89	334	P	54	23.70	0.6	CTA	35.78	178	iPc	51	53.00	-0.4
	0.8s	24.00nm				5.3mb	MAF	83.04	340	eP	54	24.30	0.5		1.2s	31.25nm				5.1mb
GEC2	77.65	334	P	53	54.80	-0.3		1.2s	66.05nm			5.6mb	WB2	37.13	197	iPd	52	04.10	-0.7
	0.5s	6.29nm				4.9mb	PCP	83.06	335	P	54	23.80	-0.1		0.9s	8.80nm				4.6mb
GAC	77.88	32	eP	53	55.50	-0.7	TCF	83.06	340	eP	54	24.10	0.2	WRA	37.13	197	P	52	04.60	-0.2
			pP	54	07.50	40kmX		1.0s	23.40nm			5.3mb		1.0s	4.30nm				4.2mb
DLF	77.99	348	iPd	53	58.10	1.4	BNI	83.10	337	P	54	25.40	1.2	LZH	41.74	307	P	52	43.00	-0.2
	0.6s	65.00nm				5.8mb	BHB	83.14	336	P	54	23.61	-0.7		1.5s	108.00nm				5.4mb
ENN	78.00	339	eP	53	57.00	0.2	MYNC	83.17	44	P	54	30.00	5.4X	Z	20s	0.30um				4.2Msz
	0.7s	15.30nm				5.1mb	Z	19s	0.08um			4.1Msz	E	10s	0.23um					
HCG	78.48	346	eP	53	59.40	-0.1	RRL	83.19	337	P	54	25.08	0.2				pP	52	51.00	27km
	1.1s	8.00nm				4.7mb	LSF	83.26	340	eP	54	25.10	0.3				sP	52	55.00	
HAE	78.56	345	eP	53	59.70	-0.2		1.1s	63.75nm			5.7mb					i	53	12.00	
	1.3s	18.00nm				4.9mb	MFF	83.29	342	eP	54	25.40	0.4				eS	59	14.00	
HTR	78.65	345	eP	54	00.50	0.1		1.0s	41.80nm			5.5mb	NST	43.14	276	eP	52	55.30	0.6
MIAR	78.90	50	P	54	10.00	7.9X	FIN	83.46	335	P	54	24.39	-1.5	DZM	43.17	150	iPc	52	50.90	-4.0X
Z	20s	0.22um				4.5Msz	ROB	83.47	336	P	54	25.08	-1.0	NNT	43.97	272	eP	53	03.00	1.6
ECB	78.93	347	eP	54	03.40	1.5	PZZ	83.49	336	P	54	23.75	-2.5	ARMA	46.48	172	eP	53	22.30	1.0
DOU	78.94	340	P	54	02.20	0.2	ENR	83.66	336	P	54	26.45	-0.6	STK	47.62	184	eP	53	29.70	-0.4
ELC	78.95	46	iP	54	01.39	-0.9	STV	83.67	336	P	54	24.66	-2.4		1.2s	2.70nm				4.2mb
WLF	78.96	339	P	54	03.00	0.9	MNS	83.76	332	P	54	26.10	-1.4	IRK	48.48	328	ePc	53	36.20	-0.5
FUR	78.97	335	eP	54	02.80	0.5	IMI	83.82	335	P	54	26.54	-1.3		1.9s	46.00nm				5.2mb
			e	54	07.70	16kmX	SAOF	83.85	336	P	54	28.28	0.4				e	53	53.20	67kmX
HGH	78.99	345	eP	54	03.30	1.0	TOUF	83.91	336	P	54	28.41	0.0	BWA	50.14	176	eP	53	49.90	0.3
RSNY	79.21	32	P	54	10.00	6.4X	SBF	83.99	336	eP	54	29.00	0.3				epP	53	57.60	26km
Z	20s	0.06um				3.9Msz		0.8s	24.20nm			5.5mb					iPcP	54	15.50	
KBA	79.34	333	iPc	54	04.60	0.1	SDI	84.00	330	P	54	28.50	-0.2	ADE	50.93	187	e(P)	53	55.70	0.1
	0.7s	28.30nm				5.4mb	AURF	84.00	336	P	54	28.50	-0.3	CAN	51.07	176	eP	53	57.70	1.0
			i	54	09.00	14kmX	RJF	84.15	340	eP	54	29.80	0.4				epP	54	04.30	22km
PTJ	79.56	331	eP	54	04.90	-0.7		1.2s	41.35nm			5.5mb	CNB	51.09	175	eP	53	57.70	0.9
WTTA	79.68	334	iPc	54	06.50	0.2	CAF	84.38	340	eP	54	31.40	0.8	TOO	53.18	180	eP	54	13.40	1.0
	0.6s	23.80nm				5.4mb		1.0s	32.80nm			5.5mb			1.4s	81.00nm				5.5mb
CDF	79.84	338	eP	54	06.30	-0.7	LRG	84.67	336	eP	54	32.50	0.5	GBA	65.15	278	P	55	34.00	-1.8
	1.0s	21.60nm				5.1mb		1.0s	30.80nm			5.5mb	MBC	76.01	14	eP	56	40.00	-0.6
RBL	79.84	333	P	54	05.90	-1.1	LFF	84.67	341	eP	54	32.70	0.7		1.0s	1.00nm				3.8mb X
SOTA	79.85	335	iPc	54	07.20	0.1		0 8s	20.95nm			5.4mb	MAIO	77.24	304	eP	56	49.00	0.7
	0.8s	15.20nm				5.1mb	LMR	84.74	336	eP	54	32.90	0.6	KEV	84.39	342	iP	57	25.80	0.5
FVI	79.95	333	P	54	06.60	-0.8		0.9s	19.50nm			5.3mb	SDF	85.82	340	iP	57	32.70	0.2
VBY	80.14	331	eP	54	08.00	-0.5	PGF	84.75	334	eP	54	32.60	0.0	DAG	87.02	356	eP	57	25.70	-12.5X
FEL	80.14	337	P	54	07.36	-1.3		0.9s	7.70nm			4.9mb			1.1s	7.59nm				
VITF	80.35	338	P	54	07.67	-2.0	MGR	84.80	329	P	54	30.80	-1.9	KAF	88.70	336	iP	57	45.50	-1.0
HAU	80.45	338	eP	54	09.90	-0.3	LPO	84.82	340	eP	54	33.40	0.7		0.9s	12.00nm				5.2mb
	0.7s	9.15nm				4.9mb		0.9s	18.65nm			5.3mb	DUG	88.87	49	eP	57	47.18	-0.8
BSF	80.50	338	eP	54	09.50	-1.1	LESF	86.36	340	P	54	42.46	2.0		1.2s	8.17nm				4.9mb
	1.0s	14.40nm				4.9mb	SOI	86.45	327	P	54	40.80	-0.1	NUR	90.25	335	iP	57	53.00	-0.8
CTI	80.78	334	P	54	12.80	0.7	GRBF	86.48	339	P	54	42.51	1.4	UPP	93.44	336	iP	58	07.10	-1.5
SKO	81.03	326	iP	54	13.40	0.1	EPF	86.58	340	eP	54	41.70	0.1				i	58	13.90	21km
	1.6s	54.00nm				5.3mb		1.0s	10.60nm			5.0mb	HFS	94.73	338	eP	58	12.00	-2.5
VAY	81.15	324	iP	54	13.70	-0.2	ZOBO	134.05	61	ePKP	01	21.00	3.9X		1.1s	22.00nm				5.5mb
LMN	81.25	26	eP	54	17.00	2.6	CNCB	134.56	62	PKP	01	17.00	-1.1	LSZ	119.38	261	iPKPd	03	45.00	0.9
			pP	54	27.00	32km	BAO	143.75	36	ePKP	01	29.40	-4.8X				i	03	52.00	
MCWV	81.28	38	P	54	20.00	5.3X				e	01	34.60		KIC	142.79	304	PKP	04	25.00	-3.2X
Z	20s	1.11um				5.2Msz	PEL	144.27	82	ePKPd	01	30.30	-4.3X	LIC	143.10	304	PKP	04	26.00	-2.7X
FLN	81.30	343	eP	54	14.40	-0.2	MDZ	145.34	80	i(PKP)	01	34.10	-2.3X	KDS	143.85	320	ePKP	04	28.50	-1.4
	1.1s	35.15nm				5.3mb	PPD	147.92	46	ePKP	01	39.40	-1.4	ARE	144.95	96	ePKP	04	34.00	1.9
LDF	81.39	342	eP	54	14.70	-0.4	NVL	150.34	205	iPKPd	01	46.00	2.9X	ZOBO	148.16	95	PKP	04	35.10	-2.6X
	0.6s	7.60nm				4.9mb		1.0s	30.00nm						1.9s	43.77nm				
EMM	81.44	28	eP	54	15.28	-0.1		S.D. = 1.0 on 178 of 195 obs.						Z	20s	0.09um				4.5Msz
GRR	81.74	343	eP	54	17.00	0.1	----------										LR	54	12.00	
	0.9s	37.00nm				5.4mb	MAY 02, 1993 07h 44m 54.02± 0.39s							LPB	148.20	96	PKP	04	38.00	0.4
LOR	81.75	339	eP	54	16.60	-0.4	15.895 N ± 4.8km 145.033 E ±11.0km							CNCB	148.33	96	PKP	04	42.70	4.7X
	1.1s	32.50nm				5.3mb	DEPTH = 23.9km (4 depth phases)							S.D. = 1.2 on 42 of 50 obs.						
VAI	81.78	336	P	54	17.70	0.6	5.1mb (12 obs.)							----------						
LBF	81.99	339	eP	54	17.90	-0.4	MARIANA ISLANDS (216)							? MAY 02, 1993 08h 02m 47.08± 1.08s						
	1.1s	26.35nm				5.2mb								39.125 N ± 8.2km 27.612 E ±12.9km						
OHR	82.01	326	eP	54	17.70	-0.8	GUMO	2.30	184	eP	45	30.80	-0.3	DEPTH = 10.0km (geophysicist)						
SSF	82.03	339	eP	54	18.20	-0.3		1.4s	1202.50nm					TURKEY (366)						

ML 2.8 (ISK).

IZM	0.78	201	iPg	03 02.20	0.0
			iSg	03 15.20	
EZN	1.22	306	iPn	03 09.80	0.1
BNT	1.25	11	ePn	03 10.00	-0.4
KCT	1.26	27	iPn	03 10.80	0.3

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

MAY 02, 1993 08h 46m 42.18± 0.94s
43.347 N ± 8.7km 12.461 E ± 8.2km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ASS	0.31	152	P	46 49.00	0.3
			eSg	46 54.60	
ARV	0.38	66	P	46 49.40	-0.6
			eSg	46 54.40	
CRE	0.47	307	P	46 51.00	-0.7
			eSg	46 59.20	
RSM	0.58	359	P	46 54.60	0.7
SFI	0.72	323	P	46 57.70	1.3
PGD	0.75	315	P	46 56.00	-1.0
			eSn	47 09.60	

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

& MAY 02, 1993 09h 28m 43.50s
35.930 N 120.522 W
DEPTH = 10.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 3.2 (BRK), 3.3 (PAS), 3.4 (GS).

PHAM	0.14	133	iPd	28 46.84	0.1
PRI	0.24	331	iPc	28 48.68	0.0
PKEM	0.36	68	iPc	28 51.79	0.9
LLA	0.77	334	iPd	28 57.99	-0.5
			eS	29 11.95	
PRS	0.79	301	iPc	28 58.11	-0.8
BCH	0.82	154	iPd	28 59.05	-0.5
SAO	1.12	318	ePc	29 03.14	-1.3
FRI	1.25	32	iPd	29 05.00	-1.6
			eS	29 21.13	
COE	1.62	325	ePc	29 11.07	-1.1
GCC	1.62	313	iPc	29 09.72	-2.4
ARN	1.63	330	ePc	29 11.05	-1.4
MHC	1.67	328	ePc	29 11.44	-1.6
ISA	1.69	98	ePc	29 11.53	-1.7
			S	29 32.01	
MMPM	2.06	35	ePc	29 18.58	-0.3
			S	29 44.16	
CMB	2.10	3	eP	29 18.25	-1.0
MTUM	2.12	47	eP	29 19.18	-0.5
MEMM	2.15	36	ePc	29 20.12	0.3
			S	29 47.45	
PCC	2.17	317	eP	29 18.65	-1.4
MRCM	2.37	42	eP	29 23.34	0.0
			S	29 54.08	
BKS	2.38	325	ePc	29 21.14	-2.0
HMR	2.44	336	(Pn)	29 23.67	-0.4
BONR	2.69	41	ePnd	29 27.78	-0.1
SSK	2.89	126	ePn	29 29.33	-1.2
NTYM	2.99	326	eP	29 29.56	-2.2
GSC	3.09	101	ePn	29 31.19	-2.2
TNP	3.41	50	ePn	29 37.21	-0.7
PEC	3.43	125	eP	29 35.95	-2.2
TPNV	3.59	72	eP	29 39.84	-0.7
KVN	3.66	31	ePn	29 40.19	-1.4
ORV	3.70	348	ePnd	29 41.63	-0.3
PLM	3.96	129	eP	29 43.38	-2.4
GLA	5.51	120	ePn	30 06.62	-1.0
ARUT	5.97	70	(Pn)	30 13.27	-1.0
MSU	7.14	66	(Pn)	30 31.05	0.3
			ePg	30 57.08	

34 obs. ossocioted

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* MAY 02, 1993 09h 43m 59.52± 0.68s
36.035 N ±16.6km 71.461 E ±12.4km
DEPTH = 33.0km (normol)
4.5mb (10 obs.)
AFGHANISTAN-TAJIKISTAN BORD REG.(717)

NDI	8.80	145	eP	46 17.00	9.6X
	0.5s		10.56nm		5.2mb
MAIO	9.68	275	eP	46 19.00	-0.7
			eS	48 04.00	
GKN	13.74	122	P	47 15.60	1.2
	0.6s		32.00nm		5.1mb
PKI	14.54	122	P	47 24.60	-0.5
	0.6s		24.00nm		4.9mb
GUN	14.66	119	P	47 27.20	0.5
	0.5s		23.00nm		4.9mb
GBA	22.97	165	P	49 14.30	12.1X
	0.6s		2.00nm		
KHT	32.19	124	eP	50 43.50	16.8X
HFS	43.66	322	eP	52 03.80	1.4
	0.6s		4.90nm		4.4mb
NB2	44.98	323	P	52 14.20	1.1
	0.7s		3.20nm		4.3mb
MBC	67.78	3	eP	54 55.00	-0.6
	0.6s		1.00nm		4.1mb
INK	74.30	9	eP	55 36.00	1.2
FBA	74.81	16	eP	55 36.20	-1.7
	0.8s		0.50nm		3.6mb
WB2	81.44	122	eP	56 18.00	3.2X
	0.4s		2.60nm		4.6mb
YKA	81.69	3	eP	56 14.30	-1.1
	0.5s		0.50nm		3.8mb

S.D. = 1.2 on 11 of 15 obs.

MAY 02, 1993 10h 08m 09.24± 0.21s
14.439 N ± 3.4km 40.116 E ± 3.7km
DEPTH = 10.0km (geophysicist)
4.7mb (26 obs.)
ETHIOPIA (558)

DAF	3.67	140	ePc	09 06.78	-0.5
KSU	3.69	142	ePc	09 07.05	-0.5
SGH	3.86	140	ePc	09 09.84	-0.3
ARO	3.93	137	ePc	09 11.43	0.4
			S	10 13.55	
GBR	3.99	145	ePc	09 11.57	-0.3
ABHA	4.56	33	eP	09 18.67	-1.4
DHJN	4.56	45	eP	09 20.00	-0.1
AAE	5.54	194	ePn	09 34.20	0.2
RYD	11.91	30	eP	11 18.00	15.8X
MJMA	12.35	22	eP	11 10.00	1.9
NAI	15.95	192	eP	12 18.00	22.3X
BHL	19.80	349	P	12 44.00	1.1
			S	20 27.00	
TAB	24.17	12	e(P)	13 29.00	2.2
MAIO	27.83	35	eP	14 02.00	1.1
OHR	31.44	331	eP	14 29.00	-4.1X
SKO	31.84	333	iP	14 36.80	0.3
MLR	33.19	342	eP	14 43.00	-5.4X
CMP	33.28	340	ePc	14 49.00	0.0
VRI	33.30	343	eP	14 48.50	-0.7
MGR	33.42	325	P	14 50.40	0.1
BUL	36.18	199	iPd	15 15.30	1.1
	1.0s		10.00nm		4.6mb
			i	27 23.90	
GBA	36.19	87	P	15 16.00	1.7
MNS	36.54	325	P	15 17.10	0.2
UZD	36.78	335	eP	15 19.70	0.8
HYB	37.04	80	ePDIF	15 41.00	19.6X
PTJ	37.38	332	eP	15 23.60	-0.4
VBY	37.41	331	eP	15 25.10	1.0
SRO	37.88	336	eP	15 27.70	-0.3
CEY	37.97	330	e(P)	15 29.50	0.6
LJU	38.15	331	e(P)	15 31.00	0.7
TRI	38.27	330	P	15 32.30	1.0
SPC	38.30	339	eP	15 32.60	0.8
VOY	38.44	330	eP	15 33.60	0.7
			ePP	16 45.80	
ZST	38.67	335	eP	15 35.00	0.3
RBL	38.89	331	P	15 36.80	0.1
OJC	39.33	339	eP	15 39.80	-0.4
FVI	39.38	330	P	15 41.40	0.8
KBA	39.46	331	e(P)	15 42.00	0.4
CTI	39.56	329	P	15 42.60	0.3
GEC2	40.61	333	P	15 51.00	0.1
	0.8s		6.76nm		4.4mb
OBN	40.66	357	ePc	15 51.50	0.4
	2.0s		160.00nm		5.4mb
KHC	40.87	333	P	15 53.00	0.0
KSP	41.10	337	eP	15 54.70	-0.1
PRU	41.12	335	P	15 54.40	-0.5
	1.4s		15.20nm		4.5mb
LPG	41.82	325	eP	16 00.20	-0.9
	1.1s		10.75nm		4.5mb
LPL	41.84	325	eP	16 00.30	-0.9
	0.9s		5.10nm		4.3mb
BRG	42.05	335	e(P)	16 02.40	-0.1
	1.4s		19.00nm		4.6mb
GRF	42.33	332	ePd	16 04.30	-0.6
	1.5s		29.00nm		4.8mb
	Z 20s		0.10um		3.7Msz
CLL	42.76	335	eP	16 07.00	-1.4
	2.0s		38.00nm		4.8mb
MOX	42.85	333	eP	16 09.10	0.0
BSF	43.24	327	iPd	16 12.00	-0.4
	1.4s		30.05nm		4.9mb
CDF	43.36	328	iPd	16 12.70	-0.7
	1.3s		14.80nm		4.6mb
GKN	43.40	64	P	16 13.80	-0.3
HAU	43.58	327	eP	16 14.60	-0.5
DMN	43.76	65	P	16 17.20	0.1
KKN	43.94	65	P	16 17.60	-0.9
PKI	44.02	65	P	16 19.20	-0.1
SMF	44.14	324	eP	16 18.80	-0.8
CAF	44.25	321	eP	16 20.80	0.2
	1.0s		7.20nm		4.5mb
LBF	44.25	325	iPd	16 19.80	-0.8
	1.0s		15.40nm		4.8mb
GUN	44.48	65	P	16 22.40	-0.7
LOR	44.48	325	iPd	16 21.70	-0.7
	1.3s		22.40nm		4.9mb
	Z 25s		0.05um		3.3MszX
AVF	44.49	324	iPd	16 21.50	-1.0
	1.3s		15.15nm		4.7mb
SSF	44.56	324	iPd	16 22.30	-0.8
	1.0s		6.60nm		4.5mb
MAF	44.63	323	eP	16 23.50	-0.2
	1.0s		6.60nm		4.5mb
BGF	44.65	324	eP	16 23.50	-0.3
	1.1s		14.40nm		4.8mb
LPO	44.66	320	eP	16 24.20	0.3
	1.1s		11.70nm		4.7mb
KIC	44.78	264	P	16 26.00	0.8
TIC	44.98	265	P	16 27.80	0.9
LFF	45.06	320	eP	16 27.40	0.3
	0.9s		10.50nm		4.8mb
LIC	45.09	264	P	16 27.40	-0.3
	Z 20s		0.16um		4.0Msz
LSF	45.26	322	iPd	16 28.40	-0.3
	1.0s		7.60nm		4.6mb
DOU	45.78	329	Pc	16 34.00	1.3
	0.8s		13.30nm		5.0mb
SNF	46.20	329	P	16 35.90	0.0
NUR	47.36	350	eP	16 44.60	-0.4
KAF	48.62	351	eP	16 54.50	-0.3
HFS	49.55	343	eP	17 00.00	-2.1
	0.9s		11.70nm		4.9mb
NB2	51.01	342	P	17 11.90	-1.3
	0.9s		11.30nm		4.8mb
LZH	60.48	57	eP	18 22.50	0.4
	2.0s		51.00nm		5.3mb
IRK	62.96	38	ePc	18 38.00	-0.2
	2.3s		76.00nm		5.5mb
	Z 14s		0.23um		4.5MszX
BJI	70.25	52	eP	19 24.00	-0.7
MBC	88.66	355	eP	21 04.50	1.0

S.D. = 0.8 on 77 of 82 obs.

? MAY 02, 1993 10h 53m 05.84± 2.08s
43.565 N ±16.9km 147.294 E ±22.6km
DEPTH = 121.0 ± 23.9 km
4.0mb (5 obs.)
KURIL ISLANDS (221)

KUSJ	1.94	257	iP+	53 36.80	-2.2
			S	54 00.00	
HOOJ	3.17	249	P	53 56.20	1.2
			S	54 34.50	
ASAJ	3.41	281	eP	53 58.40	0.1
MRRJ	4.70	258	eP	54 17.60	1.8
			eS	55 10.60	
AOMJ	5.96	242	eP	54 33.40	0.4
			eS	55 38.90	
OFUJ	6.16	225	P	54 35.20	-0.6
			S	55 43.00	
YAMJ	7.70	228	P	54 56.50	-0.1
			eS	56 21.30	
IMA	38.78	34	eP	00 19.70	0.0
FBA	41.18	36	eP	00 39.70	0.4
	0.8s		2.84nm		4.1mb
INK	46.51	30	eP	01 23.50	1.4
	0.5s		2.00nm		4.1mb
YKA	55.90	34	eP	02 32.30	-0.4
	0.5s		0.40nm		3.7mb

02d 11h

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NB2     69 81 339 P      04 03.80  -0.7
        0.4s      0.40nm          3.6mb
HFS     69.90 337 eP     04 04.00  -1.0
        0.4s      1.30nm          4.2mb
      S.D. = 1.3  on  13 of  13 obs.
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    MAY  02, 1993  11h 26m 54.87± 0.11s
    56.415 S ± 3.7km    24.491 W ± 3.7km
    DEPTH =  12.9km  (geophysicist)
    6.3mb ( 33 obs.)  6.4Msz ( 38 obs.)
 SOUTH SANDWICH ISLANDS REGION    (153)
      Mw 6.4 (GS), 6.4 (HRV). Depth
      from broadband displocement
      seismograms.
      RADIATED ENERGY
       No. of sto:   5  Focal mech.  C
       Energy        1.1±0.3*10**14 Nm
      MOMENT TENSOR SOLUTION
      Dep  14           No. of sto:  9
      Moment Tensor;    Scale 10**18 Nm
        Mrr=-2.75       Mtt=-0.87
        Mff= 3.62       Mrt=-1.82
        Mrf= 2.21       Mtf= 0.11
       Principal axes:
        T  Val=  4.35  Plg=19  Azm=264
        N        -0.01       24      166
        P        -4.35       59       28
      Best Double Couple:Mo=4.4*10**18
       NP1:Strike= 28 Dip=34 Slip= -43
       NP2:       155      68      -116
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 47S, **C  M.W.: 35S, 73C
      Centroid Locotion:
      Origin Time        11:27: 4.0 0.1
      Lat 56.45S 0.01 Lon  23.92W 0.01
      Dep  15.0 BDY Half-duration  4.1
      Moment Tensor;    Scale 10**18 Nm
        Mrr=-3.65 0.03  Mtt= 0.25 0.04
        Mff= 3.40 0.03  Mrt=-2.13 0.09
        Mrf= 2.30 0.11  Mtf=-2.03 0.03
       Principal Axes:
        T  Val=  5.40  Plg=19  Azm=241
        N        -0.57       10      148
        P        -4.83       68       30
      Best Double Couple:Mo=5.1*10**18
       NP1:Strike=348 Dip=28 Slip= -67
       NP2:       143      64      -102

SNA     16.95 154 iPc    30 53.60   0.8
        1.1s  1120.00nm          5.9mb
AIA     20.95 229 eP     31 39.60   0.3
NVL     21.13 147 iPd-   31 41.50   0.3
        2.0s   863.00nm          5.8mb
      Z  18s    65.00um          6.1Msz
      N  18s    38.00um
      E  18s    55.00um
               eS     35 35.00
LPA     31.27 299 iPc+   33 17.40   1.2
        1.0s   768.00nm          6.5mb
      Z  18s    50.86um          6.2Msz
               ePP    34 21.00
SPA     33.77 180 iPd    33 38.50   0.5
        0.6s   593.50nm          6.7mb
      Z  14s    32.00um          6.2MszX
RFA     36.75 287 eP     34 02.50  -1.1
MRA     37.15 293 ePc    34 05.20  -1.6
CER     37.74  71 iPc    34 13.50   1.7
        1.5s   720.00nm          6.2mb
CACB    38.39 325 iPd    34 18.20   0.7
                  e     34 19.40
                  i     34 31.60
MDZ     38.41 289 i(P)   34 16.90  -0.6
MAW     38.95 142 iPd    34 22.10   0.6
        1.1s   228.26nm          5.8mb
      Z  20s    63.64um          6.4Msz
CFA     39.09 291 iPc    34 21.20  -2.0
PEL     39.18 287 eP+    34 22.50  -1.5
RTPR    39.25 294 ePd    34 23.00  -1.4
SUR     39.30  72 iPc    34 34.00   8.9X
        1.0s   824.00nm          6.4mb
ZON     39.37 290 eP     34 25.00  -0.6
RTLL    39.43 291 iPd    34 24.50  -1.6
RTCB    39.48 290 iPc    34 25.00  -1.5
RIFB    40.14 325 iPd    34 33.00   1.0
                  e     34 46.00
                  e     35 08.80

                  e     36 01.80
                  eS    40 40.90
FSA     42.46 298 eP     34 49.50  -1.4
FRS     43.75  74 iPd    35 01.50   0.1
        0.7s   138.00nm          5.9mb
BDF     44.41 327 iPd    35 08.34   1.4
BAO     44.46 327 iPc    35 07.90   0.5
                  i     35 20.90
BLF     44.72  74 eP     35 07.00  -2.4
        0.7s    88.00nm          5.8mb
WIN     45.46  59 iPd    35 16.00   0.6
        1.5s   680.56nm          6.4mb
      Z  18s    65.29um          6.6Msz
YJA     45.52 302 ePd    35 16.20   0.0
SWZ     45.80  72 iPc    35 16.80  -1.2
        1.1s   400.00nm          6.3mb
SEK     46.11  75 iPd    35 20.60   0.1
        0.7s   188.00nm          6.2mb
CRZF    46.28 112 iPd    35 23.00   1.6
                  ePP    36 53.00
                  iS     42 23.00
                  eSS    45 48.00
ANT     46.63 295 iPd    35 23.30  -1.1
BFS     46.80  73 iPc    35 26.00   0.1
        0.6s   104.00nm          6.1mb
PRY     47.14  74 iPc    35 28.00  -0.6
        1.0s   450.00nm          6.5mb
KSR     47.69  72 iPd    35 31.50  -1.5
        1.0s   580.00nm          6.6mb
LBTB    47.69  70 iPd    35 32.45  -0.5
                  ipPc   35 36.68  14kmX
SLR     48.53  73 iPd    35 38.50  -1.0
        0.8s   246.00nm          6.3mb
      Z  20s   132.00um          6.9Msz
SIV     48.94 311 iPd    35 56.00  13.5X
BFT     49.51  75 iPd    35 45.50  -1.6
        0.8s   180.00nm          6.1mb
CNCB    51.31 302 iPd    36 02.30   1.0
LPB     51.60 302 Pd     36 04.20   0.8
        1.0s  1660.00nm          6.9mb
      Z  22s    20.74um          6.1Msz
                  LR     53 13.00
ZOBO    51.84 303 ePd    36 05.54   0.2
                  ed     36 07.45
                  epPc   36 09.44  13kmX
                  i      43 30.00
CSY     53.03 159 iPc    36 13.40   0.4
        0.8s   166.70nm          6.0mb
BUL     53.27  70 iPc    36 13.80  -1.7
        1.0s    17.00nm          5.0mb X
                  i      43 45.50
ARE     53.29 299 iPd    36 16.50   0.7
CIR     54.11  73 iPd    36 12.40  -9.1X
DRV     56.69 173 eP     36 40.20   0.6
                  S      44 33.00
LSZ     57.12  66 iPc    36 42.00  -1.5
NNA     59.75 296 eP     37 00.95  -0.8
        1.0s   193.00nm          6.2mb
                  e      37 03.27
                  epPc   37 05.17  14kmX
                  eS     45 17.00
LIC     64.44  22 Pd     37 31.84  -1.1
        0.8s   167.50nm          6.3mb
      Z  21s    22.00um          6.3Msz
KIC     64.63  22 Pd     37 33.06  -1.1
        0.9s   213.00nm          6.3mb
TIC     64.85  21 Pd     37 34.48  -1.1
        0.9s   219.00nm          6.4mb
KDS     69.49  13 iP     38 03.80  -0.9
MBO     70.82   8 iPd    38 13.30   0.5
PSO     71.43 303 eP     38 18.50   1.3
TPP     73.20 322 eP     38 28.46   1.4
TBH     73.22 322 eP     38 28.68   1.5
NAI     73.43  66 iPd    38 32.00   3.3X
                  PPP    42 40.00
                  PS     48 12.00
                  SS     52 40.00
TRN     73.49 322 eP     38 29.17   0.5
TCE     73.65 322 eP     38 30.54   0.8
GRW     74.99 322 eP     38 38.07   0.6
SDV     75.35 313 iPd    38 39.60  -0.2
CAR     75.36 317 iPc    38 40.00   0.3
TOV     75.82 314 ePd    38 42.00  -0.3
SIZ     76.54 189 eP     38 46.80   1.0
MVM     76.97 324 eP     38 49.40   0.8
BIM     76.99 324 eP     38 49.36   0.6
CRM     77.16 324 eP     38 51.10   1.5

FDF     77.22 324 eP     38 50.87   0.9
TUZ     77.31 190 eP     38 50.70   0.6
ODZ     78.11 191 eP     38 55.10   0.5
CMCZ    78.15 190 eP     38 55.20   0.3
LRCZ    78.22 190 eP     38 55.70   0.3
MHZ     78.23 190 eP     38 55.60   0.2
DEG     78.66 324 eP     38 56.00  -2.0
MGH     79.42 323 eP     39 02.00   0.0
BPA     79.61 324 eP     39 03.08   0.0
NEV     79.93 323 eP     39 05.66   0.9
WVZ     80.05 191 eP     39 05.70   0.6
CPB     80.15 324 eP     39 05.59  -0.3
LTZ     80.16 192 eP     39 06.30   0.5
KHZ     80.36 193 eP     39 06.80   0.0
TAU     80.80 174 (P)    39 07.71  -1.4
                  i      39 12.40
                  i      39 23.20
                  e      49 16.00
THZ     81.09 193 eP     39 11.10   0.3
        0.7s   100.00nm          6.0mb
DSZ     81.24 192 eP     39 10.50  -1.0
SNZO    81.30 195 iPd    39 11.93   0.2
        1.0s   612.62nm          6.6mb
MTW     81.33 195 eP     39 12.40   0.4
MRW     81.37 195 eP     39 12.80   0.6
PGZ     81.75 196 eP     39 14.00  -0.1
MNG     81.87 195 eP     39 15.10   0.3
CPD     81.92 321 P      39 14.50  -0.7
ORZ     82.06 193 eP     39 13.90  -1.9
LPR     82.15 321 P      39 16.20  -0.2
PORP    82.19 320 P      39 15.00  -1.6
CLLP    82.19 320 P      39 15.50  -1.0
MGP     82.31 319 P      39 17.00  -0.2
AAE     83.26  63 P      39 25.50   2.9
NGZ     83.26 196 eP     39 22.60   0.4
RKG     83.65 149 eP     39 14.00 -10.1X
URZ     83.92 197 eP     39 25.90   0.5
MOZ     84.04 195 eP     39 25.20  -0.8
HBZ     84.37 198 eP     39 29.40   1.8
WLZ     84.54 196 eP     39 28.00  -0.5
NWAO    85.25 148 eP     39 32.00  -0.1
MUN     85.83 147 iPd    39 35.20   0.1
        0.5s   141.00nm          6.4mb
TOO     85.99 172 iPc    39 37.00   1.2
        1.0s   265.00nm          6.4mb
                  ipP    39 50.40  45kmX
                  iPcP   40 19.00
STH     86.17 311 iPd    39 38.14   1.4
WCZ     86.62 195 eP     39 38.40  -0.5
KLB     86.65 148 eP     39 40.00   0.9
BAL     87.26 147 eP     39 42.30   0.2
ARO     87.43  65 ePd    39 46.05   3.0X
ADE     87.86 166 iPd    39 46.00   1.0
TIO     88.22  15 iPd    39 48.50   1.9
                  i      40 01.50
COOL    88.27 151 eP     39 46.00  -1.0
MRWA    88.34 146 eP     39 47.00  -0.3
OUK     88.41  14 eP     39 50.50   3.3X
CAN     88.46 175 iPd    39 48.30   0.5
                  ipP    39 53.30  16kmX
                  i      40 02.30
                  i      40 38.70
CNB     88.48 175 eP     39 49.30   1.3
        1.7s   339.00nm          6.4mb
BWA     89.32 174 iPd    39 52.20   0.2
                  ipP    39 56.70  14kmX
                  i      40 06.00
RIV     90.04 176 eP-    39 55.70   0.5
      Z  19s     0.21um          4.6MszX
                  iPP    43 38.00
                  e      44 25.70
                  iSKS   50 27.00
                  eSKKS  50 55.00
FORT    90.07 157 eP     39 56.00   0.6
AVE     90.53  14 iP     39 58.00   0.8
IFR     91.08  16 iPc    40 04.00   4.1X
STK     91.26 168 eP     40 01.30   0.4
        1.1s    29.80nm          5.5mb
                  e      43 37.60
MEEK    91.55 147 eP     40 00.00  -2.4
RSA     92.32  15 eP     40 10.00   4.7X
TSY     92.78  15 eP     40 11.50   4.1X
TVO     92.84 232 eP     40 22.50  14.1X
        1.5s   614.20nm
DHJN    92.98  62 eP     40 12.00   2.8
ABHA    93.12  61 eP     40 11.67   1.9
PPN     93.14 232 eP     40 19.30   9.6X
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	1.9s	481.10nm		6.6mb			
PPT	93.17	231 eP	40	18.30	8.4X		
	1.6s	681.60nm		6.8mb			
	Z 30s	******um		9.2MszX			
ARMA	93.45	177 eP	40	12.70	1.5		
	0.9s	35.00nm		5.8mb			
		ePP	43	53.60			
EJIF	93.91	15 eP	40	13.60	1.0		
WARB	94.16	154 eP	40	14.50	0.1		
MAL	94.34	16 iP-	40	16.00	1.4		
		iPP	44	04.00			
		iS	51	24.00			
		iPS	52	54.00			
EPRU	94.45	15 eP	40	17.00	1.8		
OXX	94.62	294 (P)	40	15.00	-1.6		
ENIJ	94.93	18 eP	40	22.80	5.4X		
ECOG	95.01	17 eP	40	23.00	5.2X		
EHOR	95.29	15 eP	40	20.40	1.5		
BRS	96.50	178 iPKPc+	40	26.00	0.9		
	1.5s	8.00nm		5.0mb X			
		i	40	40.00			
		eSKP	43	27.00			
		iSKS	51	06.00			
IISM	96.55	294 (P)	40	10.00	-15.1X		
QLP	96.78	170 eP	40	27.10	0.8		
III	97.11	292 (P)	40	28.50	0.6		
PAB	97.11	16 iPd	40	28.17	0.9		
		esPc	40	33.71			
PPM	97.25	293 (P)	40	33.00	4.0X		
EPLA	97.37	14 eP	40	31.00	2.6		
UNM	97.76	293 (P)	40	33.00	2.1		
HLW	98.09	47 eP	40	35.00	3.2X		
		eS	51	07.00			
GUD	98.21	15 eP	40	37.50	5.2X		
ETOR	98.71	17 eP	40	42.50	8.0X		
MRX	99.10	292 (P)	40	41.00	4.4X		
EBR	99.15	19 eP	40	36.00	-0.3		
RYD	100.49	61 ePdiff	40	43.00	0.0		
MJMA	100.81	59 ePdiff	40	45.33	0.9		
DZM	101.28	190 iPdiff	40	47.30	0.7		
GOGA	102.48	313 Pdiff-	40	52.30	0.7		
CEH	102.93	317 Pdiff-	40	54.94	1.4		
CTA	103.40	171 iPdiff	40	40.00	-16.0X		
		ipPKPc	41	08.00			
		eSKP	44	11.00			
		ePP	45	09.00			
		eSKS	51	34.00			
		e	52	33.00			
		e	54	10.00			
CTAO	103.40	171 ePdiff	40	57.35	1.4		
	1.1s	23.29nm		5.9mb			
CAF	103.41	19 ePdiff	41	16.80	21.3X		
	1.1s	8.80nm					
MYNC	104.19	313 ePdiff	40	59.16	-0.1		
OHR	104.42	34 ePdiff	41	03.50	3.3X		
THE	104.67	35 i(Pdif	41	02.40	1.2		
		i	45	18.80			
		i	54	42.40			
LPG	104.88	22 ePdiff	41	21.30	18.9X		
VAY	105.17	35 ePdiff	41	17.80	14.4X		
SKO	105.41	34 iPdiff	41	06.00	1.6		
	Z 17s	6.48um		6.2MszX			
		iPP	45	23.00			
		iPPP	47	44.00			
		iSP	54	34.00			
		iSS	00	00.00			
		iSSS	04	46.00			
		LR	32	09.50			
HRV	106.24	326 (Pdiff	41	06.78	-1.3X		
	Z 19s	21.35um		6.7Msz			
HRV	106.24	326 Pdiff-	41	10.86	2.7X		
	Z 19s	21 35um		6.7Msz			
		SP	54	52.77			
MCWV	106.53	319 PKP	45	30.00	9.7X		
	Z 19s	8.48um		6.3Msz			
TRI	106.70	27 ePdiff	41	12.00	2.0		
		e	45	35.50			
		e	54	56.00			
		e	01	00.00			
VBY	106.89	28 ePdiff	41	14.00	3.1X		
VOY	107.03	27 ePdiff	41	14.00	2.3X		
		epP	41	27.80			
		e	45	04.70			
		ePP	45	34.50			
		e	45	51.20			
LJU	107.20	27 ePdiff	41	12.00	-0.3		
		ePP	45	37.00			
		eSP	54	56.00			
		eSS	01	00.00			
OLY	107.66	308 ePKP	45	23.77	1.3		
MIAR	107.79	306 iPdiff	41	15.05	-0.1		
MIAR	107.79	306 PKP	45	03.51	-19.3X		
	Z 18s	5.49um		6.2Msz			
		SP	55	10.10			
GBA	107.82	92 PKP	45	23.00	-0.3		
KBA	107.87	26 ePKP	45	15.00	-7.8X		
		e	45	42.00			
		e	56	39.00			
LTX	108.30	295 ePKP	45	22.45	-1.6		
VAL	108.63	9 Pdiff	41	21.00	2.5X		
DOU	108.85	19 Pdiff	41	26.00	6.5X		
DOU	108.85	19 PKP	45	31.20	6.9X		
	Z 18s	6.40um		6.2Msz			
		e	45	46.00			
		e	48	09.00			
		PS	55	18.00			
		PSS	01	43.00			
KMR	108.98	26 iPKP+	45	30.00	5.4X		
BUC1	109.00	36 ePKP	45	08.00	-16.7X		
RSNY	109.02	325 Pdiff	41	16.67	-3.8X		
BUC	109.08	36 ePdiff	41	13.00	-7.7X		
CBM	109.25	330 Pdiff	41	20.78	-0.6		
FVM	109.29	310 (PKP)	45	26.08	0.5		
	Z 21s	69.91um		7.2Msz			
		e	45	51.93			
CMP	109.50	35 ePKPc	45	10.00	-15.8X		
GEC2	109.61	26 PKP	45	28.40	2.5X		
	0.5s	1.19nm					
		PcP	45	34.60			
		e	46	00.20			
CCM	109.70	310 ePdiff	41	23.35	-0.3		
VKA	109.72	28 ePdiff	41	29.00	5.5X		
	6.5s	970.00nm					
	Z 17s	5.10um		6.2MszX			
		e	45	52.00			
		LR	30	30.00			
SLM	109.76	311 PKP	45	40.00	13.6X		
	Z 21s	10.76um		6.4Msz			
GRF	109.82	24 ePdiff	41	46.00	22.1X		
	Z 19s	8.00um		6.3Msz			
GRF	109.82	24 ePKP	45	28.00	1.8		
POO	109.82	86 ePKP	45	28.50	1.4		
SRO	109.83	29 ePKP	45	34.00	7.8X		
		e	45	56.80			
		e	56	39.30			
ZST	109.86	28 ePKP	45	10.40	-15.9X		
		e	45	37.70			
		e	46	10.60			
		e	56	33.30			
		i	56	43.80			
MLR	109.99	35 ePdiff	41	36.00	11.1X		
		e	45	00.00			
BNS	110.17	21 iPdiff	41	30.00	4.6X		
MEO	110.29	302 iPdiff	41	27.50	1.1		
MOX	110.81	24 ePdiff	41	38.00	9.7X		
MOX	110.81	24 ePKP	45	41.50	13.5X		
	Z 20s	8.60um		6.3Msz			
		eSKS	52	12.00			
PRU	110.87	26 ePdiff	41	24.00	-4.5X		
	Z 19s	9.60um		6.4Msz			
	N 19s	6.10um					
	E 16s	3.10um					
		ePP	45	59.70			
		PS	55	33.60			
		SS	01	47.20			
DBN	110.88	19 ePdiff	41	32.00	3.5X		
	Z 18s	14.00um		6.6Msz			
		ePP	46	05.00			
		ePKKP	55	56.00			
		eSS	02	04.00			
		eSSS	05	54.00			
SPC	111.62	30 ePKP	45	31.10	1.3		
		ePP	46	10.20			
UZH	111.69	31 iPdiff	41	34.00	1.8		
CLL	111.74	24 ePdiff	41	32.00	-0.4		
KSP	112.09	27 ePKP	45	14.00	-16.4X		
		e	45	33.60			
		e	46	19.00			
ACO	112.11	303 iPKPc	45	21.10	-9.9X		
EEO	112.37	323 ePKP	45	29.50	-1.6		
		pP	46	31.00			
IPM	112.82	118 ePKP	45	32.90	0.0		
	0.8s	22.90nm					
		e	45	45.90			
ALQ	114.22	297 Pdiff	41	45.02	0.9		
ALQ	114.22	297 ePKP	45	34.42	-0.9		
	Z 18s	1.50um		5.6Msz			
		SP	56	11.83			
ANMO	114.22	297 (Pdiff	41	44.50	0.4		
TUC	114.32	292 ePdiff	41	44.84	0.4		
TUC	114.32	292 ePKP	45	33.90	-1.6		
	Z 19s	9.13um		6.4Msz			
		SP	56	15.01			
		e	02	31.58			
KIV	114.79	47 ePdiff	41	47.65	1.3		
COP	115.69	22 ePdiff	41	52.00	2.2X		
	Z 17s	10.20um		6.5MszX			
		i	46	38.00			
		iSKS	56	28.00			
GLA	117.00	290 ePKP	45	39.52	-1.0		
GLD	117.42	301 ePKP	45	41.61	0.4		
	Z 18s	5.65um		6.2Msz			
GOL	117.45	301 Pdiff	42	00.56	2.1X		
GOL	117.45	301 ePKP	45	40.43	-1.0		
	Z 18s	2.76um		5.9Msz			
		SP	56	39.96			
		e	03	46.48			
JAQ	117.57	329 ePKP	45	39.50	-1.3		
PV08	118.16	298 ePKP	45	42.24	-0.7		
PV10	118.19	297 ePKP	45	41.97	-0.9		
PLM	118.30	288 ePKP	45	42.96	-0.2		
PV09	118.34	297 ePKP	45	42.55	-0.7		
KONO	118.84	19 (PKP)	45	40.78	-2.3X		
PEC	118.88	288 ePKPd	45	43.78	-0.2		
		i	45	57.93			
NNT	119.03	113 ePKP	45	44.00	-0.7		
SSK	119.41	288 ePKP	45	45.15	0.0		
		e	45	59.04			
SRU	119.50	297 ePKP	45	44.17	-1.1		
SWI	119.62	152 ePKPc	45	45.50	-0.4		
NDI	119.74	82 ePKP	45	45.50	-0.2		
	1.0s	70.00nm					
GSC	119.78	290 ePKP	45	44.68	-1.1		
		e	45	59.73			
MSU	119.86	295 ePKP	45	45.99	0.0		
ARUT	119.95	294 ePKP	45	46.15	0.0		
		e	46	00.84			
		ePP	47	13.32			
HFS	120.07	21 ePKP	45	43.50	-1.9		
	0.7s	8.50nm					
	Z 17s	9836.00um		9.5MszX			
		LR	26	19.00			
EMUT	120.18	297 ePKPd	45	46.15	-0.4		
		i	46	00.44			
RSSD	120.27	305 Pdiff	42	11.21	0.4		
RSSD	120.27	305 ePKP	45	44.56	-2.0		
	Z 22s	14.06um		6.6Msz			
		SP	57	31.64			
KHT	120.28	110 ePKP	45	46.30	-0.8		
NB2	120.44	19 PKP	45	44.80	-1.3		
	0.7s	4.80nm					
UPP	120.64	23 iPKP	45	47.50	1.1		
		i	47	10.00			
		i	57	10.00			
TPNV	120.75	291 ePKP	45	48.00	0.4		
	Z 18s	6.53um		6.3Msz			
DAU	120.86	297 ePKPd	45	47.79	-0.2		
		e	46	02.26			
ISA	120.93	289 ePKPd	45	48.26	0.4		
	Z 18s	7.21um		6.3Msz			
		PP	47	19.87			
		SP	57	07.32			
		P'P'	04	29.29			
BCH	121.42	287 ePKP	45	49.41	0.5		
DUG	121.46	296 ePKPc	45	48.24	-0.6		
	Z 18s	1649.00um		8.7MszX			
		epP'dif	45	52.71			
ULM	121.57	314 ePKP	45	50.50	2.0		
PCT	121.65	113 ePKP	45	52.70	3.1X		
OBN	121.73	36 iPKPd-	45	48.00	-0.6		
	1.0s	52.00nm					
	Z 18s	6.00um		6.3Msz			
	N 20s	4.30um					
	E 20s	4.30um					
		i	46	01.00			
		iPP	47	16.00			
		eSKP	49	00.00			
		iPPP	50	00.00			
		e	52	52.00			
		e	55	46.00			
		ePS	57	28.00			

02d 11h

		ePPS	58	36.00		
		iSS	04	16.00		
		iSSS	08	40.00		
OBN	121.73	36 ePdiff	42	20.50	3.8X	
BW06	121.83	300 ePKPd	45	48.17	-1.4	
NST	121.83	111 ePKP	45	49.00	-1.0	
AKU	121.87	3 iPKP	46	03.60	15.0X	
	1.0s	36.00nm				
	Z 18s	19.24um			6.8Msz	
PHAM	122.08	287 ePKP	45	50.69	0.7	
TNP	122.11	291 ePKP	45	49.86	-0.4	
MTUM	122.26	290 ePKP	45	50.40	-0.1	
		e	46	04.74		
		ePP	47	26.43		
MRCM	122.47	290 ePKP	45	51.75	0.8	
BDT	122.55	109 ePKP	45	45.00	-6.3X	
		e	45	58.50		
BONR	122.57	291 ePKP	45	51.50	0.3	
HVU	122.64	297 ePKP	45	50.65	-0.4	
		ePP	47	31.64		
MEMM	122.69	290 ePKP	45	51.50	0.5	
MMPM	122.69	290 ePKP	45	51.70	0.2	
NUR	122.86	26 ePKP	45	48.00	-2.6X	
	Z 18s	11.00um			6.6Msz	
		e	47	24.00		
		e	57	28.00		
		e	04	44.00		
		LR	40	00.00		
DMN	123.27	89 PKP	45	51.70	-1.2	
KVN	123.29	292 ePKP	45	53.06	0.6	
GKN	123.32	89 PKP	45	51.30	-1.5	
SAO	123.33	287 Pdiff	42	26.34	2.0	
	Z 18s	6.49um			6.3Msz	
PKI	123.41	90 PKP	45	51.80	-1.4	
KKN	123.51	89 PKP	45	51.90	-1.4	
CMB	123.72	289 ePKP	45	53.20	0.0	
ARN	123.81	288 ePKP	45	54.09	0.7	
		e	46	06.68		
CHG	123.82	108 ePKPd	45	53.00	-0.8	
	0.9s	19.33nm				
COE	123.82	288 ePKP	45	54.30	1.0	
		e	46	07.43		
GUN	123.94	90 PKP	45	53.00	-1.3	
LOE	124 11	112 ePKP	46	08.00	13.6X	
VIP	124 52	291 PKP	46	02.89	7.9X	
FRB	124.54	338 ePKP	45	52.50	-1.3	
	1.0s	28.00nm				
HMR	124.55	288 ePKP	45	55.20	0.5	
KAF	124.65	26 iPKP	45	52.80	-1.3	
NTYM	125.18	288 ePKP	45	56.70	0.9	
LCCM	125.22	301 ePKP	45	56.00	0.0	
ORV	125.43	290 ePKP	45	55.57	-0.8	
		e	46	11.30		
DAV	125.44	143 ePKP	45	58.00	0.9	
LMEM	126.19	290 ePKP	45	58.81	0.7	
WDC	126.72	290 PKP	45	58.50	-0.3	
	Z 19s	4.60um			6.2Msz	
LBFM	126.94	291 ePKP	45	58.91	-0.6	
		e	46	12.80		
LGPM	127.12	290 ePKP	45	59.84	0.1	
KMPM	127.44	289 ePKP	46	00.64	0.3	
FCC	127.48	322 ePKP	46	01.00	1.4	
LSA	128.25	93 ePKPd	46	01.85	-0.8	
JBO	128.83	296 PKP	46	03.38	0.6	
FRU	128.89	69 iPKPd	46	02.00	-1.0	
DBO	128.91	292 PKP	46	03.90	0.9	
CROR	129.07	295 PKP	46	03.62	0.3	
SDF	129.16	23 iPKP	46	01.50	-1.1	
		i	46	15.40		
VGB	129.34	295 ePKP	46	03.19	-0.5	
NEW	129.46	300 ePKP	46	03.14	-0.7	
WAH2	129.60	297 PKP	46	04.45	0.4	
DPW	129.71	299 ePKP	46	04.08	-0.3	
RNO	129.73	292 PKP	46	06.44	1.9	
SSOR	129.73	294 PKP	46	03.87	-0.7	
SAW	130.18	298 PKP	46	04.89	-0.4	
ASR	130.19	295 PKP	46	05.96	0.5	
EBG	130.21	297 PKP	46	05.53	0.2	
SHW	130.54	295 ePKP	46	06.65	0.5	
LON	130.71	296 ePKP	46	05.70	-0.6	
HON	131.09	244 PKP	46	20.00	12.3X	
	Z 18s	13.30um			6.7Msz	
KEV	131.22	21 ePKP	46	06.00	-0.5	
	Z 18s	8.20um			6.5Msz	
		e	48	27.00		
		e	49	32.00		
		LR	42	20.00		
BMW	131.24	295 ePKP	46	08.22	0 9	
		eSKP	49	31.96		
GMW	131.75	296 ePKP	46	07.84	-0.4	
		eSKP	49	32.63		
JCW	131.76	297 PKP	46	09.82	1.6	
BAG	132.12	132 ePKP+	46	08.00	-2.0	
MCW	132.53	297 ePKP	46	10.66	1.0	
		eSKP	49	40.30		
STW	132.59	296 PKP	46	11.62	1.9	
PGC	132.82	297 ePKP	46	06.50	-3.6X	
		pP	49	40.00		
DAG	132.97	2 ePKP	45	51.80	-17.8X	
	1.0s	48.00nm				
CVP	133.80	133 ePKP	46	13.60	0.7	
HKC	134.44	121 ePKP	46	14.00	0.0	
		ePP	48	48.00		
GUMO	136.48	165 e(PKP)	46	02.20	-15.9X	
		e	46	16.50		
WMO	136.51	77 ePKPd	46	16.38	-1.1	
KBS	136.81	10 ePKP	46	18.80	1.9	
YKA	137.46	317 ePKP	46	15.00	-3.5X	
	0.5s	14.80nm				
LZH	140.06	98 PKP	46	12.00	-12.4X	
	Z 20s	4.71um			6.2Msz	
	N 18s	3.43um				
		sPKP	46	28.50		
		PP	49	18.00		
		PKS	50	00.00		
		SS	07	40.00		
SIT	143.54	301 PKP	46	29.44	0.0	
	Z 19s	7.36um			6.5Msz	
MBC	144.93	335 ePKPd	46	30.50	-0.9	
	1.0s	150.00nm				
		pP	46	45.00		
SSE	145.18	122 iPKPd	46	32.28	-0.8	
	Z 19s	21.20um			6.9Msz	
	N 19s	14.00um				
	E 18s	8.90um				
		e	46	45.52		
		PP	50	19.00		
		SKKS	57	04.00		
		SS	09	40.00		
INK	147.05	320 ePKP	46	34.00	-1.0	
	1.0s	95.00nm				
BALM	148.50	305 ePKP	46	35.80	-2.0	
KAGJ	149.47	135 PKP	46	44.10	4.0X	
BJI	149.62	106 ePKP	46	38.00	-2.0	
	9.0s	1.82nm				
	Z 20s	5.09um			6.3Msz	
	N 19s	3.61um				
		ePP	50	24.00		
		eSKKS	57	12.00		
		eSS	09	44.00		
KLU	150.28	304 ePKP	46	37.19	-3.2X	
IRK	150.44	76 ePKPd	46	39.00	-1.9	
	2.5s	242.00nm				
IRK	150.44	76 ePKP	46	45.90	5.0X	
	Z 18s	5.24um			6.4Msz	
	N 19s	2.56um				
	E 18s	3.65um				
		e	46	57.70		
		e	47	22.00		
		e	47	35.00		
		e	49	04.00		
		e	50	22.00		
		e	51	36.00		
		eSKSP	00	38.00		
		eSS	10	05.00		
		eSSS	15	06.00		
KUMJ	150.64	134 ePKP	46	47.30	5.5X	
PMR	151.79	304 ePKP	46	38.80	-3.7X	
FBA	151.89	311 ePKP	46	38.20	-4.4X	
SLKM	152.01	301 ePKP	46	40.16	-2.8X	
		e	46	49.32		
SHNJ	152.14	133 ePKP	46	51.60	7.7X	
KDC	152.28	295 (PKP)	46	42.13	-1.2	
CRP	153.12	302 ePKP	46	42.30	-2.4X	
		e	46	45.74		
		e	46	51.16		
SHK	153.12	135 ePKP	46	53.40	8.1X	
CP2	153.16	302 ePKP	46	43.09	-1.7	
		e	46	47.04		
TKSJ	153.17	138 PKP	46	52.90	7.5X	
RSO	153.21	300 ePKP	46	40.86	-4.0X	
WKYJ	153.94	140 PKP	46	55.00	8.4X	
YONJ	154.01	135 PKP	46	54.00	7.4X	
IMA	154.46	313 ePKP	46	42.63	-3.7X	
SVW	154.72	301 ePKP	46	45.00	-1.7	
BRW	155.16	325 ePKP	46	43.07	-3.8X	
TTA	155.20	305 ePKP	46	43.40	-3.9X	
	2.4s	257.90nm				
TSRJ	155.26	139 ePKP	46	46.20	-2.0	
CHJJ	156.76	144 ePKP	46	49.50	-0.7	
MTMJ	156.85	141 ePKP	46	53.90	3.5X	
MAJO	156.95	142 iPKPd	46	49.45	-1.0	
		ePKPab	47	20.24		
MAT	156.95	142 ePKP	46	50.00	-0.5	
	Z 20s	2.84um			6.1Msz	
HIA	157.45	93 iPKPd	46	49.31	-1.4	
		ePKPab	47	22.92		
		e	47	35.17		
NIIJ	157.85	143 ePKP	46	49.70	-1.8	
YAMJ	159.04	144 ePKP	46	53.10	0.3	
MDJ	159.87	115 iPKPd	46	52.67	-0.8	
		ePKPab	47	31.90		
OFUJ	160.38	146 ePKP	47	07.80	13.6X	
ADK	163.15	266 ePKP	46	53.54	-3.0X	
ERM	163.52	146 iPKPd	46	57.68	0.5	
SAP	163.84	140 ePKP	46	58.00	0.5	
KUSJ	164.98	148 ePKP	46	58.40	-0.1	
ASAJ	165.23	141 ePKP	46	58.20	-0.5	
YAK	165.71	56 iPKPd	46	56.00	-2.5X	
	2.8s	305.00nm				
		i	46	59.00		
		i	47	13.00		
		i	51	48.00		
		i	52	00.00		
YSS	167.71	135 iPKPd	47	00.41	-0.1	
		ePKPab	48	07.95		
SMY	168.60	259 PKP	47	10.00	9.1X	
	Z 21s	14.11um				
	S.D. = 1.1	on 279 of 372 obs.				

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* MAY 02, 1993 11h 59m 01.41± 0.59s
49.423 N ±15.5km 158.834 E ±17.8km
DEPTH = 33.0km (normal)
4.1mb (5 obs.)
EAST OF KURIL ISLANDS (222)

BRW	29.85	27 iPd	05	07.05	-0.3	
FBA	31.66	41 eP	05	24.60	1.3	
	1.0s	1.00nm			3.6mb	
MBC	40.74	21 eP	06	41.00	0.9	
YKA	46.45	40 eP	07	26.30	-0.1	
	0.7s	1.10nm			3.9mb	
CHG	56.42	260 eP	08	43.00	0.9	
BW06	60.07	58 iPc	09	07.70	0.1	
FRB	61.20	22 eP	09	13.50	-1.2	
RSSD	62.16	54 iPc	09	21.45	-0.3	
NB2	66.85	344 P	09	50.90	-0.8	
	0.5s	0.60nm			3.9mb	
WB2	72.41	204 iPc	10	25.70	-0.3	
	0.8s	6.90nm			4.7mb	
WRA	72.41	204 P	10	26.00	-0.1	
	0.9s	4.50nm			4.5mb	
	S.D. = 0.8	on 11 of 11 obs.				

& MAY 02, 1993 11h 59m 49.80s
34.102 N 116.399 W
DEPTH = 3.4km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 2.8 (PAS).

PEC	0.67	252 ePc	00	02.19	-0.9	
		eS	00	10.28		
PLM	0.84	207 ePd	00	05.56	-1.0	
SSK	1.08	276 ePc	00	09.88	-1.0	
GSC	1.24	345 eP	00	12.36	-1.2	
GLA	1.68	128 eP	00	19.80	-0.4	
ISA	2.31	313 ePn	00	29.71	0.3	
		ePg	00	32.08		
TPNV	2.84	2 (P)	00	42.54	5.5	
	7 obs. associated					

MAY 02, 1993 12h 21m 47.25± 1.53s
8.922 S ± 6.6km 158.924 E ± 9.9km
DEPTH = 63.2 ± 15.4 km
4.9mb (12 obs.)
SOLOMON ISLANDS (193)
Felt (III) at Honiara.

HNR	1.13	117 iP	22	06.50	-0.9	
BKM	12.56	135 iPd	24	44.50	-0.6	
DZM	14.94	152 iPd	25	19.10	2.7	

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BRS      19.27 197 iPc    26 10.00    0.3
         0.9s      5.00nm            3.8mb X
ARMA     22.45 197 eP     26 43.60    1.4
         0.7s     18.00nm            4.6mb
WB2      26.16 243 iPc    27 18.50    0.9
         0.6s      9.00nm            4.5mb
                   i      27 21.10
                   i      27 32.00
BWA      27.15 199 eP     27 27.30    0.7
                   e      27 37.80
CAN      27.80 198 eP     27 32.10   -0.4
STK      27.95 213 iPc    27 32.80   -1.0
         0.7s      2.30nm            3.9mb
ADE      31.85 213 eP     28 19.80   11.3X
QRZ      33.99 161 eP     28 26.00   -1.0
WARB     35.09 237 eP     28 36.50   -0.1
KHZ      35.75 161 eP     28 39.90   -2.0
MAT      49.24 338 eP     30 31.00   -0.4
         0.8s     11.94nm            5.0mb
YAMJ     50.06 341 P      30 38.50    0.8
OFUJ     50.38 343 P      30 40.20    0.1
ASAJ     54.81 346 eP     31 13.90    0.8
BJI      62.72 324 eP     32 07.00   -1.0
         1.4s     24.00nm            5.1mb
CHG      65.24 295 eP     32 24.80    0.0
LZH      68.42 314 eP     32 45.00    0.1
         1.4s     42.00nm            5.2mb
                  pP     33 20.00  144kmX
YAK      74.28 346 eP     33 19.20    0.0
         0.7s     32.00nm            5.4mb
SVW      78.35  21 ePc    33 43.20    1.1
         0.8s     18.90nm            5.1mb
GUN      79.44 301 P      33 47.80   -1.4
TTA      79.50  19 ePc    33 49.30    0.9
         1.1s     20.40nm            5.0mb
PKI      79.75 300 P      33 50.60   -0.2
KKN      79.92 300 P      33 49.60   -2.0
DMN      80.02 300 P      33 52.20    0.0
GKN      80.52 300 P      33 54.80    0.1
PMR      81.03  22 eP     33 56.60    0.2
         0.8s     24.40nm            5.2mb
IMA      82.40  18 ePc    34 04.40    0.7
         0.7s      6.70nm            4.7mb
FBA      83.53  20 eP     34 09.20   -0.1
GBA      83.90 285 P      34 13.00    0.9
YKA      96.21  2B eP     35 08.30   -1.0
         0.8s      0.80nm            4.3mb
MBC      96.63  14 eP     35 11.50    0.4
      S.D. = 1.0  on  33 of  34 obs.
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   MAY  02, 1993  13h 40m 47.76± 0.40s
   17.746 N ± 7.6km   63.273 W ± 4.5km
   DEPTH = 137.2 ±  4.7 km
   3 6mb (  1 obs.)
 LEEWARD ISLANDS                    ( 92)
NEV       0.90 132 eP     41 10.98    0.2
                   eS     41 29.11
CPB       1.38  94 eP     41 15.43    0.0
MGH       1.44 135 eP     41 16.50    0.5
BPA       1.52 117 eP     41 16.50   -0.5
                   S      41 36.00
PAG       2.29 138 ePd    41 26.53    0.3
DOG       2.33 137 eP     41 27.00    0.4
CPD       2.53 277 P      41 29.50    0.3
LPR       2.53 283 P      41 29.00   -0.3
DEG       2.55 124 eP     41 29.00   -0.5
SJG       2.76 278 iP     41 32.80    0.6
CLLP      3.16 277 P      41 37.40    0.0
PORP      3.22 276 P      41 38.00   -0.1
APR       3.36 283 P      41 40.00    0.0
LRS       3.44 280 P      41 41.00   -0.1
FDF       3.62 145 eP     41 42.90   -0.6
MGP       3.64 275 P      41 43.00   -0.7
CRM       3.74 142 eP     41 44.70   -0.3
BIM       3.85 146 eP     41 46.50    0.1
MVM       3.91 144 eP     41 47.60    0.3
ZOBO     34.14 188 P      47 22.00   -0.2
CNCB     34.65 188 P      47 27.00    0.4
YKA      56.99 334 eP     50 21.10    0.2
         0.6s      0.50nm            3.6mb
      S.D. = 0.4  on  22 of  22 obs.
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   MAY  02, 1993  14h 25m 12.11± 0.83s
   17.476 N ± 6.5km   95.141 W ± 6.3km
   DEPTH = 113.6 ±  8.0 km
   4.4mb ( 15 obs.)
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 OAXACA, MEXICO                     ( 60)
OXX       1.56 256 iP     25 39.00   -1.5
                   iS     25 59.00
IISM      2.60 306 iP     25 58.00    4.4X
                   (S)    26 19.00
PPM       3.67 296 iP     26 09.00    0.5
                   (S)    26 37.50
IIA       3.73 297 iP     26 09.00    0.2
III       4.22 283 iP     26 14.50   -1.1
                   (S)    26 45.00
UNM       4.26 296 iP     26 16.50    0.2
ACX       4.55 263 iP     26 15.50   -4.5X
                   (S)    26 55.00
CRX       4.72 295 eP     26 07.00  -15.6X
                   (S)    26 59.00
MRX       6.15 292 (P)    26 42.00    0.0
MIAR     17.06   4 eP     29 05.13    0.2
         0.6s      9.09nm            4.2mb
MEO      17.51 351 iPc    29 11.30    0.8
FNO      17.82 354 iPd    29 16.00    1.6
OCO      18.10 354 iPc    29 20.30    2.7
OLY      18.25  10 eP     29 18.96   -0.4
ACO      19.47 350 iPd    29 31.80   -0.7
MYNC     20.09  27 eP     29 37.74   -1.2
         0.4s     13.45nm            4.7mb
ALO      20.11 332 eP     29 38.34   -1.0
         0.8s      4.79nm            3.9mb
ELC      20.41  14 eP     29 41.50   -0.6
TUC      20.44 319 eP     29 42.50   -0.1
         0.8s     14.28nm            4.4mb
                  epP     29 45.73   12kmX
GBTN     20.56  26 eP     29 42.00   -1.6
TKL      20.74  27 eP     29 44.08   -1.3
FVM      20.85  11 eP     29 45.78   -0.7
         0.7s      9.96nm            4.3mb
CEH      23.22  35 eP     30 10.27    0.5
         0.7s     65.37nm            5.1mb
      Z  22s      0.44um            3.9Msz
NAV      23.46  30 eP     30 12.38    0.2
GLA      23.55 315 eP     30 13.54    0.4
GOL      23.86 340 eP     30 16.84    0.5
         0.9s     11.76nm            4.3mb
PV08     24.11 333 eP     30 19.68    0.8
PV10     24.12 332 eP     30 19.14    0.3
PV09     24.26 332 eP     30 21.28    1.1
PLM      25.12 313 iPc    30 29.06    0.9
SDV      25.32 107 eP     30 31.30    1.1
SRU      25.38 331 eP     30 30.87    0.3
PEC      25.62 314 eP     30 33.33    0.6
         1.2s     17.45nm            4.5mb
MSU      25.71 328 eP     30 34.00    0.3
ARUT     25.84 325 eP     30 35.44    0.7
EMUT     26.08 332 eP     30 37.77    0.7
DAU      26.77 332 eP     30 43.93    0.5
                  epP     30 47.12   11kmX
BW06     28.05 337 eP     30 54.26   -0.6
         0.9s      1.76nm            3.7mb
HVU      28.55 332 eP     30 59.60    0.3
LCCM     31.53 337 eP     31 26.00    0.4
EEO      31.9B  21 eP     31 31.50    2.2
RSNY     32.07  28 eP     31 29.01   -1.1
         1.0s     12.60nm            4.6mb
GAC      32.57  26 eP     31 32.50   -1.9
ULM      32.70 359 eP     31 36.50    1.0
CBM      36.87  31 eP     32 10.55   -0.4
LMN      37.89  35 eP     32 20.50    0.9
MCW      38.41 330 eP     32 23.66   -0.3
JAQ      39.27  18 ePd    32 30.00   -1.0
FCC      41.23   1 eP     32 51.00    4.0X
ZOBO     42.82 140 P      33 01.80    0.7
LPB      43.03 140 P      33 05.00    2.3
YKA      46.99 348 eP     33 31.20   -2.0
         0.7s      2.40nm            4.1mb
SIV      47.26 133 P      33 49.60   13.7X
FRB      49.69  15 eP     33 54.00    0.0
RTRS     53.44 152 ePc    34 38.00   15.5X
INK      56.27 344 ePc    34 42.80    0.1
         0.9s      7.00nm            4.7mb
CRP      59.18 332 eP     35 02.08   -1.2
CP2      59.21 332 eP     35 02.67   -0.9
MBC      60.12 353 eP     35 09 00   -0.3
         1.0s      6.00nm            4.6mb
                  pP     35 53.50  193kmX
DAG      69.99  14 eP     36 12.10   -0.6
         0.9s      5 04nm            4.3mb
NB2      82.53  28 P      37 24.10    0.8
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         0.7s      1.60nm            4.0mb
WB2      133.19 259 ePKP   44 16.00   -0.9
         0.5s      4.30nm
WRA      133.20 259 PKP    44 16.80   -0.1
         0.7s      1.60nm
HYB      144.78  10 ePKP   44 36.00   -2.0
GBA      148.26  14 PKP    44 47.00    3.4X
      S.D. = 1.1  on  58 of  65 obs.
-------------------------------------------
?  MAY  02, 1993  14h 35m 43.85± 8.19s
   33.397 S ±12.2km   70.018 W ±45.2km
   DEPTH = 115.4 ± 57.3 km
 CHILE-ARGENTINA BORDER REGION      (127)
      MD 3.7 (SAN).

FCH       0.24 287 iP     36 00.57   -0.2
                   iS     36 12.63
PCH       0.47 242 iP     36 01.52    0.0
                   iS     36 14.42
SAN       0.54 264 iP     36 01.93    0.1
                   iS     36 15.94
PEL       0.61 294 iP     36 02.47    0.1
                   iS     36 16.25
CHCH      0.75 225 iP     36 03.80    0.3
                   iS     36 18.50
TACH      0.81 251 iP     36 03.84   -0.1
                   iS     36 19.32
JACH      0.86 326 iP     36 04.60    0.0
                   iS     36 20.71
ROCH      0.93 297 iP     36 05.38    0.0
                   iS     36 21.58
LNV       1.29 244 iP     36 08.58   -0.3
                   iS     36 27.77
LCCH      1.30 266 iP     36 09.17    0.2
      S.D. = 0.2  on  10 of  10 obs.
-------------------------------------------
   MAY  02, 1993  15h 11m 55.26± 0.37s
    0.971 N ± 9.1km   27.794 W ± 7.1km
   DEPTH =  10.0km  (geophysicist)
   4.7mb ( 17 obs.)  4.9Msz (  5 obs.)
 CENTRAL MID-ATLANTIC RIDGE         (406)
      Mw 5.5 (HRV).
      CENTROID, MOMENT TENSOR       (HRV)
      Data Used: GDSN
      L.P.B.: 15S, 21C
      Centroid Locotion:
      Origin Time        15:12: 1.3 0.7
      Lat  1.20N 0.09 Lon  27.89W 0.06
      Dep  15.0 FIX Half-duration  1.3
      Moment Tensor;   Scale 10**17 Nm
        Mrr=-0.05 0.09  Mtt= 0.53 0.15
        Mff=-0.47 0.13  Mrt= 0.21 0.44
        Mrf=-0.11 0.40  Mtf=-1.94 0.09
       Principal Axes:
        T  Val=  2.05  Plg= 6  Azm= 38
        N       -0.08       84      228
        P       -1.97        1      128
      Best Double Couple:Mo=2.0*10**17
       NP1:Strike=173 Dip=85 Slip=   4
       NP2:        83      86      175

MBO      17.11  38 eP     15 57.30    1.2
KDS      19.27  53 eP     16 20.80   -2.2
LIC      23.31  77 P      17 05.06    0.6
      Z  22s      1.30um            4.3Msz
TIC      23.40  75 P      17 06.74    1.3
KIC      23.61  76 P      17 08.6B    1.3
BAO      25.90 230 iPd    17 27.90   -1.5
                   e      17 29.70
CACB     29.14 218 eP     17 58.30   -0.6
                   e      18 03.30
SIV      36.93 241 P      19 17.40   10.8X
ZOBO     43.33 245 P      19 59.B0   -0.4
         1.2s     37.16nm            5.0mb
      Z  24s      1.31um            4.8MszX
                   S      26 36.00
                   LR     32 50.00
CNCB     43.39 244 P      20 00.00   -0.6
LPB      43.40 245 P      20 00.00   -0.6
      Z  16s      4.24um            5.4MszX
                   S      26 32.00
                   e      29 42.00
                   LR     32 46.00
FSA      45.65 231 ePc    20 18.00    0.0
CYA      46.70 228 ePd    20 24.28   -2.1
EPF      48.85  27 eP     20 41.70   -1.3
         1.1s     12.70nm            4.9mb
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02d 15h

MAF		52.33	26	eP	21	08.70	-0.7			1.1s	0.90nm		4.0mb	AFR		24.88	86	iPc	31	13.90	-1.8
		1.0s	6.80nm			4.5mb		MBC		89.44	346	eP	24	56.50	3.2X			1.1s	459.10nm		5.9mb
BGF		52.71	26	eP	21	11.30	-1.0			1.0s	2.00nm		4.3mb	PAE		25.04	87	iPc	31	15.50	-1.7
		1.2s	12.20nm			4.7mb		CAN		145.70	175	ePKP	31	42.50	6.3X			1.3s	482.30nm		5.8mb
SSF		53.39	26	eP	21	16.40	-0.9	BRS		153.72	181	iPKPc	31	56.80	8.1X	PPT		25.06	86	iPc	31	15.80	-1.6
LBF		53.54	27	eP	21	17.70	-0.7			0.9s	30.00nm							1.4s	1076.90nm			6.1mb	
		1.1s	10.25nm			4.7mb						i	32	08.00			Z	39s	2500.00um			7.4MszX	
LOR		53.70	26	eP	21	18.40	-1.2					e	32	24.00		PPN		25.20	86	iPc	31	17.00	-1.7
		1.3s	7.95nm			4.6mb				S.D. = 1.1 on 65 of 75 obs.								1.4s	486.20nm			5.8mb	
	Z	20s	1.13um			4.9Msz		----------								TVO		25.32	87	iPc	31	18.20	-1.7
BOB		54.63	32	P	21	27.20	0.7			MAY 02, 1993 15h 26m 02.58± 0.08s								1.2s	366.50nm			5.8mb	
PGD		55.29	34	P	21	30.80	-0.7			21.151 S ± 2.6km 175.883 W ± 2.8km						ODZ		26.29	202	eP	31	27.40	-1.1
HAU		55.38	27	eP	21	30.60	-1.2			DEPTH = 120.0km (geophysicist)						LRCZ		26.78	204	eP	31	31.90	-1.3
		1.4s	20.90nm			5.0mb				5.7mb (64 obs.)						MHZ		26.80	204	eP	31	32.60	-0.7
	Z	22s	1.13um			4.9Msz				TONGA ISLANDS					(173)	LSCZ		26.82	204	eP	31	33.10	-0.2
SFI		55.39	34	P	21	37.00	5.1X			Mw 5.7 (HRV). Depth from						SBCZ		26.82	204	eP	31	32.80	-0.6
BSF		55.45	28	eP	21	31.10	-1.4			broadband displacement						TUZ		27.44	202	eP	31	40.70	1.8
		1.1s	7.35nm			4.6mb				seismograms.						RUV		27.69	82	iPc	31	40.40	-1.0
CDF		56.10	27	eP	21	35.50	-1.6			FAULT PLANE SOLUTION: P-Waves								1.2s	202.30nm			5.6mb	
		1.4s	13.05nm			4.8mb				NP1:Strike= 33 Dip=57 Slip=-107						BCZ		28.15	204	eP	31	45.90	0.7
DOU		56.18	25	Pc	21	50.90	13.4X			NP2: 242 37 -66						SIZ		28.76	203	eP	31	51.80	1.0
				S	29	31.00				Principal Axes:						ARMA		30.59	246	iPd	32	09.00	1.7
CTI		56.64	32	P	21	40.50	-0.6			T Plg=10 Azm=135								0.3s	41.00nm			5.6mb	
TRI		57.57	33	e(P)	21	48.80	1.3			P 72 260						RIV		31.71	240	eP	32	18.30	1.4
				e	24	44.00				Camment: The focal mechanism is						CNB		33.53	238	iPc	32	33.30	0.5
				e(S)	29	52.00				poorly controlled and								1.0s	290.00nm			6.0mb	
FVI		57.59	32	P	21	47.70	0.1			corresponds to normal faulting										ePcP	35	12.20	
LSZ		57.63	109	eP	21	51.00	2.5			with a moderate strike-slip										eScP	38	47.70	
				i	22	07.00				component. The preferred fault						CAN		33.81	238	iPd	32	36.20	0.9
VOY		57.84	33	eP	21	49.50	0.0			plane is not determined.										i	33	09.20	
				e	22	07.00				RADIATED ENERGY										i	33	18.40	
RBL		57.92	33	P	21	50.00	0.0			No. of sta: 9 Focal mech. F										e	35	15.40	
CEY		57.95	34	e(P)	21	49.50	-0.7			Energy 1.6±0.4*10**12 Nm										iScP	38	48.70	
LJU		58.20	33	e(P)	21	50.00	-1.9			CENTROID, MOMENT TENSOR (HRV)						BWA		34.06	239	iPd	32	36.10	-1.2
KBA		58.20	32	e(P)	21	52.00	-0.1			Data Used: GDSN										i	33	08.40	
VBY		58.28	34	eP	21	52.90	0.4			L.P.B.: 23S, 41C										i	33	17.20	
CEH		58.84	312	eP	21	56.55	0.0			Centroid Location:										e	35	15.20	
		1.3s	20.76nm			5.1mb				Origin Time 15:26:10.4 0.6										iScP	38	48.00	
GRF		58.85	29	eP	21	56.00	-0.4			Lat 20.93S 0.07 Lon 175.71W 0.06						CTA		35.40	265	iPd	32	50.10	1.2
PTJ		58.91	34	eP	21	56.40	-0.6			Dep 154.6 2.0 Half-duration 1.5								1.0s	117.50nm			5.7mb	
CVL		59.26	315	eP	21	58.34	-1.1			Moment Tensor; Scale 10**17 Nm										e	33	16.00	
GEC2		59.51	31	P	22	00.50	-0.6			Mrr=-2.43 0.14 Mtt= 2.36 0.24										i	34	22.00	
		0.6s	0.59nm			3.9mb				Mff= 0.07 0.23 Mrt=-0.03 0.16										ic	35	17.00	
				e	22	02.80				Mrf=-1.89 0.16 Mtf= 1.48 0.22										i	38	55.00	
				e	22	05.70				Principal Axes:						CTAO		35.40	265	iPd	32	50.25	1.4
				e	22	23.50				T Val= 3.24 Plg=10 Azm=149										epPc	33	20.71	136kmX
KHC		59.63	30	P	22	01.50	-0.4			N 0.29 29 54						OLP		36.77	254	iPd	33	01.60	1.4
	Z	18s	0.80um			4.9Msz				P -3.53 59 256						TOO		37.13	235	iPd	33	04.60	1.3
	N	18s	0.20um							Best Double Couple:Mo=3.4*10**17								1.0s	458.00nm			6.3mb	
	E	18s	0.50um							NP1:Strike=270 Dip=43 Slip= -45						STK		39.31	245	iPd	33	22.70	1.3
MOX		59.68	28	eP	22	02.70	0.5			NP2: 36 61 -124								0.5s	72.30nm			5.7mb	
SKO		60.13	41	iP	22	05.50	0.1													eS	39	18.50	
PRU		60.66	30	eP	22	08.30	-0.5	SVA		6.13	299	iPc	27	38.20	6.1X					eScS	43	20.50	
	Z	20s	0.70um			4.8Msz						eS	28	44.50		ADE		42.02	241	iPd	33	44.50	0.7
				e	22	13.70		VUN		6.18	299	iPc	27	38.40	5.6X	DHH		45.71	24	(P)	34	12.66	-0.7
CLL		60.78	28	eP	22	10.00	0.4	RAO		8.27	192	eP	28	02.00	0.8	WB2		46.46	262	iPc	34	19.10	-0.3
UZD		60.80	35	e(P)	22	10.00	0.2					eS	29	33.20				1.1s	46.90nm			5.1mb	
ZST		60.90	33	eP	22	09.70	-0.7	PVC		15.29	280	iPc	29	41.20	8.0X					epP	34	50.90	140kmX
BRG		60.94	29	eP	22	11.00	0.3	BKM		15.37	280	iPc	29	41.90	7.7X					iPcP	35	53.10	
		1.2s	12.00nm			4.9mb		DZM		16.46	264	iPd	29	54.60	6.7X	WRA		46.47	262	P	34	19.40	-0.1
				e	22	23.10		WCZ		17.04	208	eP	29	56.00	1.2			0.5s	155.80nm			6.0mb	
SRO		61.34	34	eP	22	13.70	0.3	KUZ		17.18	203	eP	29	58.10	1.6	FORT		50.86	247	eP	34	52.50	-0.7
KSP		62.07	30	eP	22	18.40	0.0	URZ		18.09	198	eP	30	03.10	-4.5X			0.6s	136.00nm			6.0mb	
GBTN		62.60	310	eP	22	22.76	0.5					eS	33	12.50		MTN		51.15	270	iPd	34	55.10	-0.5
SPC		63.17	33	eP	22	27.50	1.6	NOZ		18.18	195	eP	30	06.60	-2.0			0.6s	250.00nm			6.3mb	
OJC		63.51	32	eP	22	24.40	-3.5X	WLZ		18.22	202	eP	30	08.90	-0.2	GUA		51.68	308	eP	34	59.50	0.0
MLR		64.66	39	eP	22	36.00	0.3	MOZ		19.07	203	eP	30	19.20	1.0			1.3s	1338.46nm			6.7mb	
VRI		65.32	39	ePd	22	38.00	-1.8	CNZ		19.44	200	eP	30	20.00	-2.1	GUMO		51.75	308	ePd	34	59.60	-0.4
JAQ		65.73	331	eP	22	47.00	4.7X	WAHZ		19.65	198	eP	30	20.50	-3.7X	PJG		51.75	308	eP	35	00.20	0.2
NB2		66.87	19	P	22	49.40	-0.1	PGZ		20.52	197	eP	30	31.80	-1.3	TLE		52.05	280	ePd	35	03.00	0.6
		1.2s	5.30nm			4.6mb		MNG		20.75	199	eP	30	31.70	-3.7X	WARB		52.53	253	iPd	35	05.10	-0.7
FRB		69.39	342	eP	23	07.00	1.9					eS	34	06.20				0.4s	58.00nm			5.9mb	
NUR		71.57	24	eP	23	23.20	4.8X	KIW		21.15	200	eP	30	37.60	-1.8	KNA		52.57	266	iPd	35	06.10	-0.1
KAF		73.11	23	eP	23	32.80	5.3X	CAW		21.33	199	eP	30	39.00	-2.2	SWI		55.33	284	ePd	35	25.00	-1.3
ULM		75.37	322	eP	23	42.00	1.2	DIW		21.42	202	eP	30	40.10	-2.0	COOL		56.78	246	eP	35	35.00	-1.6
DAG		75.89	2	eP	23	43.90	0.7	MRW		21.55	200	eP	30	40.80	-2.6	MBL		59.55	257	eP	35	55.00	-1.0
		0.7s	5.48nm			4.7mb		SNZO		21.62	200	eP	30	43.00	-1.0			0.4s	98.00nm			6.2mb	
FCC		77.06	331	eP	23	52.00	1.9					eS	34	29.00		KLB		59.57	245	iPd	35	55.00	-1.0
LTX		77.22	300	eP	23	51.98	0.2	TCW		21.67	200	eP	30	42.30	-2.3	MEEK		59.58	251	iPd	35	54.80	-1.3
PV10		82.53	308	eP	24	21.41	1.1	QRZ		21.95	204	eP	30	46.70	-0.6			0.8s	119.00nm			6.0mb	
PV09		82.61	309	eP	24	20.96	0.2			0.5s	1330.00nm				6.6mb	NWAO		59.85	243	eP	35	57.00	-0.9
BW06		83.29	313	eP	24	25.55	1.5	THZ		22.63	202	eP	30	54.10	0.1	BAL		60.60	246	iPd	36	02.30	-0.7
		1.0s	3.42nm			4.5mb		KHZ		22.99	200	eP	30	57.20	-0.2			0.5s	76.00nm			6.0mb	
DAU		84.39	310	eP	24	32.17	2.4	DSZ		23.02	204	eP	30	58.00	0.3	MUN		60.83	244	iPd	36	04.20	-0.4
MSU		84.99	308	eP	24	33.74	1.0	LTZ		23.75	202	eP	31	04.20	-0.6			0.6s	159.00nm			6.2mb	
MAIO		87.24	54	eP	24	46.00	2.3	MQZ		24.44	200	eP	31	13.20	1.9	MRWA		61.43	247	eP	36	08.00	-0.7
YKA		87.67	332	eP	24	45.50	0.5	WVZ		24.56	204	eP	31	13.50	1.0	MNI		62.11	284	eP	36	13.50	0.2

02d 15h

WSI	62.23	270	ePc	36	15.00	0.8				ePPc	38	25.57	114kmX	DAU	85.77	44	iPd	38	30.04	0.1
NANU	63.14	255	eP	36	20.00	0.0	MEMM	79.29	43	ePd	37	57.31	1.1	KLU	85.80	14	iPd	38	28.46	-0.8
DAV	63.93	290	eP	36	25.00	-0.3	MIN	79.33	39	iPd	37	56.07	-0.5	DPW	85.94	35	eP	38	29.79	-0.4
	1.0s	248.00nm				6.1mb		1.2s	70.00nm				5.3mb				ePP	39	02.02	125kmX
CSY	64.23	206	eP	36	27.90	1.4				ipP	38	28.02	126kmX	PV09	86.17	46	iPd	38	32.16	0.2
	0.5s	53.70nm				5.7mb				esPc	38	44.62		PV10	86.17	46	iPd	38	31.58	-0.3
PLP	66.37	293	ePd	36	40.50	-0.4	MTUM	79.34	43	iPd	37	57.11	0.3	BALM	86.25	16	iPc	38	30.92	-0.7
SPA	68.98	180	iPd	36	58.30	1.6				ePPc	38	27.74	120kmX	ALQ	86.27	50	iPd	38	32.72	0.4
	1.0s	240.00nm				6.0mb				esP	38	44.96			1.6s	124.24nm				5.6mb
TSM	69.62	283	ePc	37	02.00	0.8	GLA	79.36	48	iPc	37	57.18	0.4				ipPc	39	03.98	121kmX
TRT	70.03	269	iPc	37	02.30	-1.4				epP	38	27.93	121kmX	ANMO	86.28	50	ePd	38	32.76	0.4
KAKJ	70.57	323	P	37	05.90	-0.6	LMEM	79.47	39	(P)	37	57.93	0.5				ePPc	39	03.05	117kmX
PGP	70.93	293	eP	37	07.50	-1.7	MRCM	79.57	43	iPd	37	58.73	0.7	OXX	86.38	70	(P)	38	34.00	0.8
CHJJ	71.12	323	P	37	08.90	-0.9				ePPc	38	29.37	120kmX	PV08	86.54	46	ePd	38	33.75	0.0
TGY	71.23	294	ePd	37	11.00	0.0	SSE	79.63	309	Pc	37	58.00	-0.2				ePP	39	05.19	121kmX
IIDJ	71.34	322	P	37	10.90	-0.3		1.0s	46.00nm				5.2mb	IISM	86.56	68	(P)	38	35.50	1.8
WKYJ	71.85	319	P	37	14.10	-0.2	Z	20s	0.50um				4.9Msz	NEW	86.76	35	iPd	38	33.70	-0.5
OFUJ	71.89	326	eP	37	13.70	-0.6				eS	47	48.00			1.1s	49.38nm				5.4mb
MAJO	71.92	323	(P)	37	13.42	-1.2	LBFM	79.80	38	iPd	37	59.51	0.3	BJI	87.75	315	eP	38	40.00	1.0
MAT	71.92	323	eP	37	14.00	-0.6				epP	38	30.70	123kmX		2.0s	371.00nm				6.1mb
	0.8s	44.03nm				5.3mb				esP	38	47.06			Z 20s	0.34um				4.8Msz
		eS	46	19.00			BONR	79.87	43	iPd	38	00.00	0.3				e	39	13.00	
NIIJ	71.97	324	P	37	14.10	-0.8				epP	38	31.20	123kmX	ENH	88.05	303	iPd	38	41.90	1.2
YAMJ	72.08	325	eP	37	15.10	-0.4	DBO	80.19	36	P	38	01.16	0.1				e	39	17.33	
MTMJ	72.18	322	P	37	15.50	-0.8	VIP	80.24	41	P	38	13.72	12.1X	BW06	88.10	42	iPd	38	40.31	-0.7
CVP	72.23	298	eP	37	15.80	-1.0	TPNV	80.60	44	iPd	38	04.07	0.6		1.1s	20.36nm				5.1mb
TSRJ	72.51	320	P	37	17.60	-0.5		0.8s	44.40nm				5.3mb				epP	39	12.40	124kmX
BAG	72.63	296	ePc	37	18.90	-0.5				epP	38	33.98	117kmX	NVL	88.17	183	iPd	38	41.00	0.4
	1.0s	78.00nm				5.5mb	KVN	80.65	42	ePd	38	03.84	0.1		1.2s	50.00nm				5.4mb
TKSJ	72.65	318	P	37	18.70	-0.2	KDC	80.99	12	ePd	38	04.50	-0.2				e	39	14.00	
ADK	72.72	359	ePd	37	17.40	-1.5		0.9s	168.50nm				5.8mb	LCCM	88.31	39	eP	38	41.70	-0.1
	1.2s	275.10nm				5.9mb	MAW	81.62	199	iP	38	10.00	2.0	FBA	88.46	12	ePd	38	41.20	-0.8
KAGJ	72.90	314	P	37	20.80	0.3		1.1s	65.22nm				5.3mb		1.1s	150.00nm				6.0mb
KUSJ	73.50	331	eP	37	23.00	-0.6	KMOR	81.72	34	P	38	09.20	0.3	IMA	88.57	9	ePd	38	42.40	-0.2
KUMJ	73.78	315	eP	37	25.40	-0.1	SSOR	81.75	35	P	38	08.89	-0.3		1.1s	41.30nm				5.4mb
YONJ	73.80	319	P	37	25.50	-0.1	TUC	81.84	51	(P)	38	10.43	0.6	PCT	88.60	286	eP	38	46.60	3.0X
SMY	74.08	354	eP	37	25.30	-1.5		1.6s	109.38nm				5.4mb	SNA	88.67	178	iPd	38	44.50	1.5
SHNJ	74.60	317	eP	37	29.30	-0.9				epPc	38	40.06	115kmX		0.9s	93.00nm				5.9mb
MRRJ	74.69	328	eP	37	29.30	-1.3	KGM	82.15	275	ePd	38	13.00	1.2	GOL	89.31	47	ePc	38	46.63	-0.2
LEM	75.00	268	iPd	37	33.50	0.2		0.9s	109.40nm				5.7mb		1.4s	43.19nm				5.3mb
	1.0s	78.00nm				5.5mb	MDJ	82.19	324	iPd	38	12.37	1.0	NNT	89.34	284	iPd	38	50.90	3.8X
ASAJ	75.23	330	P	37	34.60	1.0				(pP)	38	46.64	135kmX	LOE	89.35	289	eP	38	48.90	1.8
S8C	76.85	45	ePd	37	43.42	0.5	BMW	82.41	34	iPd	38	12.79	0.3	GLD	89.44	47	eP	38	46.82	-0.5
BCH	77.05	44	iPd	37	44.79	0.6				epP	38	44.57	124kmX		1.1s	26.99nm				5.2mb
SAO	77.16	42	ePd	37	44.61	0.0				e	39	09.94					epP	39	19.38	125kmX
	1.2s	220.54nm				5.8mb	CROR	82.63	36	P	38	13.72	0.0	XAN	90.10	307	iPd	38	51.44	1.1
PHAM	77.25	43	eP	37	44.93	-0.2	SHW	82.74	34	ePd	38	15.01	0.7	NST	90.12	287	eP	38	52.50	1.8
SDN	77.31	9	eP	37	43.40	-1.5	ARUT	82.92	45	iPd	38	16.28	0.8	HIA	90.38	324	ePd	38	50.94	-0.3
COE	77.33	42	eP	37	46.24	0.7				epP	38	47.60	122kmX	KMI	91.41	296	iPd	38	58.60	1.8
BKS	77.38	41	ePc	37	45.71	-0.1	ASR	83.06	35	P	38	16.13	0.2				e	39	34.19	
	1.0s	100.00nm				5.6mb	VGB	83.09	36	iPd	38	15.85	-0.1	BDT	91.70	288	eP	38	54.00	-3.9X
MHC	77.40	42	eP	37	45.78	-0.3	LON	83.33	34	iPd	38	17.09	-0.1		1.0s	102.10nm				6.0mb
	1.2s	130.00nm				5.6mb	GMW	83.35	33	iPd	38	17.53	0.3	MEO	91.99	53	iPc	38	58.50	-0.5
		ipPc	38	17.25	124kmX					epP	38	49.37	124kmX	RSSD	92.26	43	ePc	38	59.94	-0.4
		isPc	38	35.69		RSO	83.47	11	iPd	38	16.39	-1.4		1.0s	98.93nm				6.0mb
YSS	77.44	332	iPd	37	45.57	-0.3	JBD	83.56	36	P	38	18.72	0.3				epP	39	32.34	124kmX
		e	38	14.54		MRX	83.57	66	(P)	38	20.00	1.1	CHG	92.33	289	iPd	39	02.80	2.0
		epPc	38	19.67	136kmX	SVW	83.59	10	eP	38	17.10	-1.1		0.8s	54.10nm				5.9mb
ARN	77.48	42	iPd	37	46.94	0.6	SLKM	84.00	12	iPd	38	19.24	-1.0	ACO	92.37	52	iPd	39	01.00	0.3
		epPc	38	17.37	120kmX	MCW	84.07	32	P	38	21.63	0.8	BRW	93.16	6	eP	39	03.20	-0.3
		esP	38	34.04		EBG	84.08	35	P	38	21.45	0.4	YAK	93.44	337	iPd	39	03.90	-1.1
PKEM	77.57	43	eP	37	48.20	1.3	MSU	84.15	45	iPd	38	22.98	1.2		1.2s	140.00nm				6.2mb
KMPM	77.91	38	iPd	37	49.41	0.6				epP	38	54.10	121kmX				ipP	39	40.00	140kmX
SSK	78.05	46	eP	37	49.61	-0.2	JCW	84.21	33	P	38	21.88	0.3				ePP	42	41.00	
PLM	78.12	47	iPd	37	50.15	-0.1	CRP	84.33	11	iPd	38	20.35	-1.7				eS	49	25.00	
		epP	38	20.64	120kmX	III	84.50	68	(P)	38	25.00	1.2	INK	94.39	15	ePd	39	09.80	0.5
PEC	78.23	47	iPd	37	50.29	-0.3	WAH2	84.52	35	P	38	23.59	0.5		1.0s	10.00nm				5.1mb
	1.2s	62.31nm				5.3mb	DUG	84.65	43	ePc	38	23.83	-0.3				pP	39	43.50	130kmX
FHC	78.24	38	ePc	37	51.59	1.1		1.3s	64.54nm				5.4mb	LZH	94.74	307	iPc	39	13.00	1.2
	1.1s	169.94nm				5.7mb				epPd	38	55.90	125kmX		1.5s	81.00nm				5.9mb
ISA	78.39	44	ePd	37	51.74	0.2	LNOR	84.67	36	P	38	23.93	0.0				pP	39	47.50	133kmX
	1 6s	307.47nm				5.8mb	WTV	84.91	34	P	38	25.27	0.2				i	42	59.00	
		ePc	38	22.70	122kmX	SAW	85.20	34	P	38	26.54	0.0	YKA	96.28	24	eP	39	16.30	-1.7
		e	38	40.08		PMR	85.21	12	ePd	38	25.50	-0.7		0.8s	7.10nm				5.2mb
VTV	78.50	46	ePd	37	51.92	-0.1		1.1s	83 20nm				5.6mb	OLY	97.66	55	eP	39	25.65	0.8
	1.3s	181.46nm				5.7mb	IPM	85.21	277	ePd	38	28.50	1.2	CNCB	99.89	112	eP	39	38.00	1.9
		ePc	38	21.06	114kmX		0.6s	54.10nm				5.6mb	ZOBO	100.00	112	P	39	37.00	0.4
		esP	38	42.82		TTA	85.26	9	ePd	38	26.60	0.0				i	40	10.80	
ORV	78.89	40	iPd	37	54.05	0.0		1.0s	85.90nm				5.6mb	MBC	103.01	12	ePdiff	39	49.50	1.5
		epPc	38	25.69	125kmX	PPM	85.51	68	(P)	38	30.00	0.7	GUN	106.58	294	PKP	44	15.80	-0.1
		esP	38	42.08		HVU	85.54	42	iPd	38	28.79	0.2	PKI	106.89	294	PKP	44	15.00	-1.5
WDC	78.93	39	ePd	37	54.32	0.1				epPc	39	00.25	122kmX	KKN	107.06	294	PKP	44	14.40	-2.2X
		(pP)	38	23.78	115kmX	SRU	85.56	45	iPd	38	29.06	0.3	DMN	107.16	293	PKP	44	15.40	-1.5
LGPM	78.98	38	iPd	37	55.05	0.4				epP	39	00.49	122kmX	GKN	107.67	294	PKP	44	16.20	-1.5
		epP	38	26.53	124kmX	EMUT	85.74	44	eP	38	30.00	0.3	JAQ	112.74	39	ePKP	44	24.00	-2.3X
MMPM	79.20	43	ePd	37	56.26	0.0				epP	39	02.01	124kmX	FR8	116.42	28	ePKP	44	32.00	-1.0
GSC	79.28	46	ePd	37	56.43	0.0	LTX	85.75	56	iPd	38	29.08	-0.7		1.0s	6.00nm				

02d 15h

LMN	119.42	48	ePKPc	44	41.00	1.7	KSP	148.86	345	iPKPd	45	33.50	0.3				i	45	55.30										
GRM	121.76	202	iPKPd	44	46.00	1.8		1.0s	167.00nm											UZD	152.02	338	ePKP	45	37.00	-1.0	
	1.0s	80.00nm								id	45	37.90		BNT	152.13	319	iPKP	45	44.20	5.8X								
DAG	123.17	6	ePKP	44	44.10	-1.5				i	46	11.40		FLN	152.21	7	iPKPd	45	38.30	0.1								
	0.9s	8.40nm					CFR	148.93	326	ePKP	45	33.00	-0.4		1.7s	110.30nm												
CER	123.89	195	iPKPc	44	48.50	0.2	CLL	149.11	349	iPKP	45	33.60	0.1	KHL	152.22	314	iPKP	45	45.80	7.1X								
	1.4s	80.00nm						1.7s	60.00nm					LDF	152.41	6	iPKPd	45	38.50	0.0								
SUR	124.43	197	iPKPd	44	57.50	7.9X	WTS	149.14	357	ePKP	45	34.00	0.5		1.5s	63.70nm												
	1.0s	120.00nm						0.9s	16.00nm					GRR	152.53	7	iPKPd	45	38.90	0.2								
FRS	125.43	203	iPKPc	44	51.70	0.4				id	45	38.00			1.9s	78.50nm												
	0.8s	20.00nm					VRI	149.17	328	ePKPd	45	38.50	4.6X	CDF	152.68	355	iPKPd	45	38.90	-0.2								
BLF	125.69	204	iPKPc	44	52.50	0.4	SPC	149.21	339	ePKP	45	34.60	0.6		1.1s	8.80nm												
	0.9s	33.00nm								i	45	40.30		ELL	152.72	310	ePKP	45	46.60	7.1X								
BFT	127.08	210	iPKPc	44	55.50	0.5	BMR	149.26	334	ePKPc	45	40.00	6.1X	KBA	153.07	346	iPKPc	45	37.40	-2.4X								
	0.6s	9.00nm					BRG	149.35	348	iPKPd	45	33.80	-0.1		0.7s	14.70nm												
PRY	127.12	206	iPKPd	44	55.00	0.0		1.3s	190.00nm								i	45	39.10									
	1.0s	60.00nm								i	45	38.50					i	45	46.80									
		e	47	06.00						i	46	13.40					i	46	00.90									
SLR	127.82	208	iPKPc	44	56.10	-0.2	BHL	149.41	301	PKP	45	38.00	3.3X				e	49	27.00									
	0.8s	33.00nm					HRI	149.52	300	ePKP	45	34.50	-0.4	HAU	153.15	357	iPKPd	45	39.70	0.1								
	Z 20s	4.00um				6.1MszX	MLR	149.83	329	ePKPc	45	35.50	0.5		1.4s	23.10nm												
KSR	128.30	206	iPKPc	44	58.00	0.8	MOX	149.98	350	iPKP	45	34.80	-0.1	SLE	153.21	353	iPKPd	45	39.20	-0.5								
KEV	129.47	350	ePKP	44	57.00	-0.9		1.5s	200.00nm					WTTA	153.25	349	iPKPc	45	38.80	-1.2								
MAIO	129.78	300	ePKP	45	00.00	0.4				i	45	40.30			1.4s	47.20nm												
BUL	132.48	212	ePKP	45	04.90	-0.4	PRU	150.06	346	ePKP	45	35.00	0.0				i	45	39.60									
	1.0s	25.00nm						1.1s	159.90nm								i	45	47.60									
		iPP	48	23.00						i	45	40.50		BSF	153.29	356	iPKPd	45	39.80	-0.2								
KAF	136.30	345	ePKP	45	00.20	-10.9X				e	45	45.30			1.4s	21.80nm												
LSZ	136.77	215	iPKP	45	15.00	1.5	BNS	150.15	356	iPKPd	45	40.40	5.3X	SQTA	153.36	349	i(PKP)	45	39.50	-0.6								
		i	47	46.00				1.2s	190.00nm						1.0s	41.10nm												
		i	48	01.10			VRAC	150.20	343	ePKP	45	35.90	0.7				i	45	47.70									
		i	48	44.00			DSI	150.22	297	ePKP	45	35.80	0.0	EZN	153.43	319	ePKP	45	39.00	-1.2								
NUR	138.10	345	ePKP	45	03.00	-11.5X	HOF	150.26	350	iPKPc	45	35.90	0.6	PTJ	153.48	341	iPKP	45	40.20	0.0								
		eSKP	48	39.00						i	45	41.00		CIN	153.56	314	ePKP	45	41.00	0.5								
OBN	138.25	332	ePKP	45	05.00	-9.9X	ENN	150.41	358	ePKP	45	35.50	0.0	RBL	153.62	345	PKP	45	39.50	-0.9								
	1.4s	90.00nm						0.8s	11.90nm					FVI	153.66	346	PKP	45	39.50	-0.8								
		i	45	15.60						id	45	41.00		LJU	153.75	343	ePKP	45	40.50	0.0								
		e	45	49.00			UCC	150.41	360	PKP+	45	36.00	0.5				ePKPbc	45	48.50									
NB2	139.84	355	PKP	45	07.40	-10.3X				i	45	41.00		VOY	153.92	344	iPKP	45	40.50	-0.4								
	0.8s	2.30nm								i	45	48.00					ePKPab	46	01.70									
TAB	139.99	304	ePKP	45	13.00	-5.9X	CMP	150.42	329	ePKPd	45	38.00	2.2X	LOR	153.94	0	iPKPd	45	41.00	0.2								
UPP	140.15	349	iPKP	45	08.90	-9.3X	EYL	150.61	317	ePKP	45	30.00	-6.3X		1.4s	46.20nm												
HFS	140.46	352	ePKP	45	09.40	-9.4X	SNF	150.70	360	PKPc	45	36.40	0.5	VBY	154.04	342	iPKP	45	41.10	0.2								
	0.6s	8.90nm								e	45	41.60					i(PKPb	45	49.60									
NAI	141.03	239	ePKP	45	17.50	-4.0X				e	45	48.40					iPKPab	46	03.00									
EDU	144.26	7	ePKPd	45	23.00	-2.5X	HRT	150.78	318	ePKP	45	36.20	-0.3	CEY	154.06	343	ePKP	45	40.60	-0.4								
EAB	144.45	8	ePKPd	45	23.60	-2.2X	TNS	150.79	354	iPKPd	45	42.60	6.4X				ePKPbc	45	49.00									
	1.3s	121.00nm								ec	46	16.00					ePKPab	46	03.00									
EBH	144.49	7	ePKPd	45	24.00	-1.9	CSS	150.90	304	ePKP	45	42.20	5.4X	OSS	154.06	350	ePKPd	45	41.20	0.1								
MUD	144.54	355	iPKPc	45	24.40	-1.5	GRF	150.97	350	iPKPc	45	37.30	0.9	SSF	154.15	1	iPKPd	45	41.30	0.3								
	0.9s	66.00nm						Z 28s		0.20um			4.8MszX		1.5s	59.55nm												
EDI	144.85	7	ePKPd	45	24.90	-1.6				e	45	43.10		LBF	154.23	0	iPKPd	45	41.40	0.2								
	1.3s	98.00nm								e	45	51.10			1.4s	38.75nm												
EAU	144.90	7	ePKPd	45	25.50	-1.1	ISK	151.01	319	ePKP	45	42.00	5.3X	TRI	154.26	344	ePKP	45	40.90	-0.3								
ESY	144.92	7	ePKPd	45	25.20	-1.4	SRO	151.04	340	ePKP	45	34.70	-1.8				e	45	49.70									
	1.3s	86.00nm								i	45	43.30					e	46	03.50									
COP	144.96	352	iPKPd	45	25.60	-1.0				i	45	51.90		MFF	154.38	7	iPKPd	45	41.30	0.0								
	1.0s	137.50nm					ZST	151.07	342	iPKP	45	36.80	0.2		1.1s	11.00nm												
EBL	145.01	7	ePKPd	45	25.80	-1.0				i	45	43.10		CTI	154.41	348	PKP	45	41.00	-0.5								
EKA	145.43	7	PKPd	45	26.80	-0.7				i	45	51.50		AVF	154.42	1	iPKPd	45	41.30	-0.1								
	1.2s	176.70nm								e	49	16.50			1.2s	14.30nm												
ESK	145.44	7	iPKPd	45	26.22	-1.3	KHC	151.08	347	PKPd	45	37.00	0.4	RIY	154.43	343	iPKPd	45	40.90	-0.5								
	1.0s	120.00nm						1.4s	183.50nm					PLE	154.47	334	iPKPc	45	42.06	0.3								
DMU	146.24	12	iPKPd	45	29.50	0.6				i	45	43.50		VAY	154.54	326	iPKP	45	41.40	-0.3								
WIM	146.38	9	ePKPd	45	30.10	1.0				e	45	48.60			1.3s	103.00nm												
KVT	146.48	314	iPKP	45	32.00	2.2X				e	46	17.00					i	45	49.60									
DLF	146.88	12	iPKPd	45	31.50	1.6	RMN	151.08	295	ePKP	45	37.40	0.1				i	46	06.00									
	1.0s	267.00nm					DOU	151.11	359	PKPc	45	37.10	0.5	SMF	154.57	0	iPKPd	45	41.60	0.0								
WME	147.17	9	ePKPd	45	32.20	1.8				e	45	43.10			1.3s	28.90nm												
	1.4s	116.00nm								e	45	50.20		SKO	154.62	329	iPKP	45	41.40	-0.4								
YRC	147.27	10	ePKPd	45	32.20	1.7	WET	151.20	348	iPKPc	45	37.60	0.8		1.4s	66.00nm												
VAL	147.30	17	iPKP	45	33.00	2.4X	VKA	151.22	343	iPKPd	45	37.00	0.2				i	45	51.00									
	1.1s	1.90nm								i	45	43.20					i	46	06.30									
ETA	147.52	12	iPKPd	45	33.30	2.3X	GEC2	151.32	347	PKP	45	36.80	-0.3				i	49	41.60									
YRH	147.66	10	ePKPd	45	33.20	2.0		1.0s	6.52nm					IVA	154.63	332	iPKPc	45	41.98	0.1								
ECB	147.72	13	iPKPd	45	33.70	2.4X				e	45	43.80		BGF	154.64	2	iPKPd	45	42.00	0.3								
	0.9s	106.00nm								e	45	51.90			1.6s	41.65nm												
KAS	147.86	316	iPKPd	45	32.40	0.4				e	46	19.80		TMA	154.81	352	ePKPd	45	41.80	-0.3								
ECP	147.98	12	iPKPd	45	34.20	2.5X	CTT	151.35	320	ePKP	45	43.20	5.9X	PVY	154.82	332	iPKPc	45	42.06	-0.1								
HCG	148.31	9	ePKPd	45	35.20	2.9X	GZR	151.37	332	ePKPd	45	37.00	-0.2	TCF	154.88	3	iPKPd	45	42.20	0.2								
	1.1s	34.00nm					ALT	151.45	314	ePKP	45	37.00	-0.6		1.3s	24.20nm												
WIT	148.33	357	ePKPd	45	37.00	4.8X	WLF	151.50	357	iPKPc	45	38.01	0.9	MAF	154.96	3	iPKPd	45	42.20	0.1								
OJC	148.46	341	iPKPc	45	32.40	-0.2				id	45	44.16			1.6s	29.85nm												
	1.2s	144.00nm								ic	45	49.97		DIX	154.99	355	ePKPd	45	42.90	0.4								
		i	45	36.20			KCT	151.92	318	ePKP	45	39.00	0.8	MDI	155.01	351	PKP	45	41.30	-0.8								
PPE	148.49	328	ePKP	45	37.00	4.3X	KMR	151.97	346	iPKP-	45	38.20	0.2	NKY	155.06	333	iPKPc	45	42.43	-0.1								
HAE	148.74	8	ePKP	45	36.40	3.5X				i	45	45.10		BRY	155.17	334	iPKPc	45	42.43	-0.3								

TTG	155.26	332	iPKPc	45	42.43	-0.1	THE	2.28	14	ePn	10	31.12	0	0	PTJ	38.03	311	eP	19	26.00	0.7
BDV	155.57	333	iPKPc	45	43.12	0.0				eSn	10	59.42			VBY	38.41	310	eP	19	29.40	1.1
HCY	155.57	334	iPKPc	45	42.81	-0.3	KEK	2.30	305	ePn	10	33.50	2.0		LJU	39.03	311	e(P)	19	35.00	1.5
LPL	155.60	356	iPKPd	45	44.00	0.7	FNA	2.46	344	ePn	10	34.28	0.6		CEY	39.03	310	e(P)	19	34.50	0.9
	1.4s		17.85nm							eSn	11	05.82			VOY	39.46	311	e(P)	19	37.50	0.3
LPG	155.62	356	iPKPd	45	43.90	0.4	GRG	2.54	3	ePn	10	34.92	0.1		ARV	39.62	306	P	19	39.50	1.0
	1.3s		13.00nm							eSn	11	06.72			MNS	39.64	305	P	19	40.20	1.5
ULC	155.64	332	iPKPc	45	43.12	-0.1	SOH	2.55	19	ePn	10	35.04	0.1		ASS	39.76	306	P	19	41.00	1.3
RJF	155.82	4	iPKPd	45	43.50	0.2				iSn	11	06.20			RBL	39.77	311	P	19	40.30	0.5
	1.6s		28.00nm				TPE	2.55	318	iPnc	10	41.00	6.0X		LZH	39.98	65	eP	19	41.50	-0.2
BNI	156.07	356	PKP	45	44.60	0.7	KNT	2.78	10	ePn	10	38.37	0.0			1.5s		30.00nm			4.8mb
CAF	156.23	4	iPKPd	45	44.30	0.4				eSn	11	11.28						pP	19	55.00	51kmX
	1.5s		18.80nm				SRS	2.89	21	ePn	10	39.12	-0.6		KBA	40.07	312	iPc	19	42.40	0.0
RSM	156.25	345	PKP	45	44.40	0.5				eSn	11	14.24				0.6s		3.20nm			4.3mb
SFI	156.40	346	PKP	45	44.20	0.1	VAY	2.91	5	iPn	10	41.00	1.0					i	19	43.10	
LPO	156.41	5	iPKPd	45	44.50	0.4	OHR	2.91	338	ePn	10	41.50	1.3		GEC2	40.31	315	P	19	43.80	-0.4
	1.3s		14.80nm				VLO	2.96	315	ePn	10	47.50	6.8X			0.5s		1.60nm			4.0mb
PGD	156.47	346	PKP	45	44.10	-0.4	TIR	3.45	329	ePn	10	50.00	2.3		NUR	40.33	335	iP	19	43.50	-0.6
BDI	156.53	348	PKP	45	42.30	-2.1X	EZN	3.47	65	ePn	10	46.60	-1.4			0.5s		12.40nm			4.9mb
ARV	156.53	344	PKP	45	44.30	-0.1	PHP	3.54	338	ePn	10	50.20	1.1		CRE	40.35	306	P	19	45.30	0.7
CRE	156.65	346	PKP	45	43.40	-1.2				iSn	11	30.20			KHC	40.47	315	eP	19	46.00	0.6
FIR	156.67	347	ePKP	45	45.00	0.6	SKO	3.60	350	ePn	10	51.60	1.7					e	20	15.50	
MNS	157.64	343	PKP	45	44.90	-0.9		1.0s		69.00nm					SFI	40.47	307	P	19	47.50	2.1
ECRI	157.89	13	ePKP	45	47.00	0.9				i	11	35.30			PGD	40.56	307	P	19	48.50	2.1
SDI	157.93	340	PKP	45	45.80	-0.4				i	11	43.00			KAF	40.84	338	eP	19	50.50	2.3
EGRA	158.69	9	ePKP	45	47.00	0.1				i	11	51.40			CTI	40.99	310	P	19	50.00	0.2
TDS	158.79	333	PKP	45	47.40	0.3				Lg	12	04.50			WTTA	41.25	312	iPc	19	51.60	-0.5
EPLA	159.23	23	ePKP	45	49.30	1.7	LACI	3.76	330	ePn	11	00.60	8.5X			0.4s		6.20nm			4.7mb
GUD	159.33	18	iPKPc	45	47.60	-0.2	ALN	3.83	49	ePn	10	51.24	-2.0					i	19	52.60	
ETOR	159.70	14	iPKPd	45	49.40	1.2	LCI	3.84	301	P	10	51.60	-1.7		BDI	41.39	307	P	19	53.40	0.3
PAB	160.28	20	(PKP)	45	46.60	-2.2X	IZM	3.94	89	iPn	10	55.90	1.2		CLL	41.48	318	eP	19	55.00	1.4
			e	46	29.80		SDA	4.19	331	ePn	11	04.70	6.4X			1.1s		10.00nm			4.5mb
ECHE	161.11	12	ePKP	45	51.30	1.7	ROI	4.57	286	P	11	04.20	0.5		SOTA	41.53	312	iPc	19	53.80	-0.4
EHOR	161.51	24	ePKP	45	51.00	1.0				eSn	11	52.50				0.4s		8.90nm			4.8mb
EVIA	161.66	17	ePKP	45	51.70	1.4	BRT	4.60	304	P	11	03.30	-0.9					i	19	54.70	
ELUQ	162.10	22	ePKP	45	51.20	0.5	TDS	4.77	287	P	11	06.70	0.2		GRF	42.10	315	eP	20	00.70	1.9
EPRU	162.27	25	ePKP	45	52.80	2.0	ACI	4.81	283	P	11	05.80	-1.3		OSS	42.13	311	P	19	59.81	0.5
EHUE	162.41	18	ePKP	45	51.90	0.9	CSI	4.83	288	P	11	07.80	0.4		MDI	42.27	309	P	20	00.00	-0.2
EJIF	162.61	27	ePKP	45	51.60	0.5	CZI	4.84	281	P	11	08.40	0.9		BOB	42.30	308	P	20	01.40	0.8
LIC	162.72	148	PKP	45	52.20	0.3	SOI	4.89	268	P	11	09.60	1.4		TMA	42.90	310	P	20	05.30	-0.3
	1.3s		95.00nm				BAI	4.95	305	P	11	08.00	-1.0		PCP	42.91	307	P	20	03.90	-1.6
KIC	162.98	148	PKP	45	52.18	0.0	MMN	5.08	289	P	11	10.40	-0.5		VAI	42.93	309	P	20	05.00	-0.6
	1.2s		69.00nm				MGR	5.47	290	P	11	16.60	0.2		LLS	42.94	311	P	20	05.69	-0.3
EGUA	163.00	22	ePKP	45	51.90	0.4	SGO	5.78	294	P	11	21.00	0.3		IMI	43.31	306	P	20	08.75	0.0
TIC	163.08	147	PKP	45	52.38	0.1	HVAR	6.48	319	iPn	11	32.20	1.6		MMK	43.52	309	P	20	10.47	-0.2
	1.1s		49.00nm				DUI	6.80	301	P	11	35.00	-0.2		SBF	43.63	306	eP	20	11.10	-0.3
AVE	164.16	38	iPKP	45	53.50	0.7	SDI	7.25	300	P	11	41.60	0.0			0.6s		11.45nm			4.8mb
			i	46	27.00		AOU	7.81	303	P	11	49.00	-0.4		ENR	43.68	307	P	20	11.18	-0.6
TIO	165.89	44	iPKPc	45	51.00	-3.5X	MNS	8.31	301	P	11	57.10	0.8		STV	43.75	307	P	20	11.82	-0.5
	S.D. = 0.9		on 360 of 411 obs.				ASS	8.63	306	P	12	00.00	-0.8		BHB	43.85	308	P	20	11.45	-1.7
							ARV	8.68	309	P	11	59.60	-1.8		RSP	43.89	308	P	20	11.50	-2.1
• MAY 02, 1993 16h 04m 58.04± 1.56s										eSn	13	31.00			DIX	43.90	309	P	20	13.72	-0.1
29.382 S ± 8.6km 70.788 W ±19.5km							VBY	8.79	326	ePn	12	06.00	3.2X		PZZ	43.93	307	P	20	12.50	-1.4
DEPTH = 113.3 ± 32.2 km										eSn	13	38.00			LSD	44.00	308	P	20	13.79	-0.8
CENTRAL CHILE						(136)	CRE	9.36	307	P	12	10.00	-0.9		RRL	44.20	308	P	20	15.71	-0.5
							PGD	9.63	308	P	12	15.30	0.6		EMS	44.23	309	P	20	16.07	-0.3
RTRS	1.40	125	e(P)	05	23.70	-0.5	VOY	9.81	324	e(Pn)	12	17.00	0.0		LPG	44.29	308	eP	20	16.20	-0.8
RTCB	2.71	141	eP	05	46.00	4.9X				e	13	53.70				0.8s		14.90nm			4.9mb
			(S)	06	30.00		CTI	10.94	318	P	12	30.60	-2.0		BNI	44.29	308	P	20	16.50	-0.3
RTLL	2.79	135	eP	05	44.70	2.6X	NB2	23.67	347	P	15	02.90	-2.3		LPL	44.30	308	eP	20	16.20	-0.8
			(S)	06	27.00			0.5s		0.40nm			3.2mb			0.7s		10.35nm			4.8mb
RTCV	3.14	142	ePc	05	48.00	1.2		S.D. = 1.1		on 46 of 51 obs.					RSL	44.40	309	P	20	17.22	-0.5
RTPR	3.83	105	ePc	05	55.90	-0.1									BSF	44.58	312	eP	20	18.30	-0.8
CYA	4.48	79	eP	06	01.30	-3.6X										0.4s		1.10nm			4.1mb
MRA	5.31	126	ePc	06	15.60	-0.6									HFS	44.61	330	eP	20	18.10	-0.9
FSA	5.36	53	eP	06	17.20	0.3										0.4s		4.40nm			4.7mb
ANT	5.66	3	eP	06	21.00	-0.1									SS8	45.82	308	P	20	28.52	-0.3
RFA	5.72	160	ePc	06	21.70	-0.3									NB2	46.11	331	P	20	29.20	-1.8
	S.D. = 0.9		on 7 of 10 obs.													0.7s		0.80nm			3.8mb
							MAIO	9.37	9	iPd	14	24.60	0.4		LBF	46.37	310	eP	20	32.80	-0.4
MAY 02, 1993 16h 09m 52.90± 0.52s										eS	16	23.00				0.5s		3.00nm			4.5mb
38.419 N ± 5.3km 22.250 E ± 3.6km							PRNI	20.25	285	eP	16	44.60	0.9		SMF	46.42	310	eP	20	32.50	-1.1
DEPTH = 10.0km (geophysicist)							RMN	20.58	285	eP	16	48.00	0.8			0.6s		13.00nm			5.1mb
3.2mb (1 obs.)							HYB	21.45	112	eP	16	55.00	-1.0		LOR	46.48	311	eP	20	33.10	-0.9
GREECE						(364)	GBA	22.72	122	P	17	12.50	4.0X			0.5s		2.75nm			4.5mb
ML 3.7 (ATH), 3.5 (THE).								0.6s		3.00nm			3.9mb		SSF	46.69	310	eP	20	35.30	-0.4
							GKN	23.83	81	P	17	21.00	1.5			0.4s		5.05nm			4.8mb
AGG	0.61	6	iPg	10	04.01	-1.1	DMN	24.28	82	P	17	25.80	1.8		AVF	46.77	310	eP	20	35.60	-0.7
			iSg	10	13.28		KKN	24.42	82	P	17	23.00	-2.3			0.6s		4.25nm			4.6mb
ATH	1.24	111	ePn	10	17.20	1.3		1.0s		46.00nm			5.0mb		BGF	47.10	310	eP	20	38.40	-0.5
VLS	1.33	260	ePn	10	16.20	-1.2	PKI	24.55	82	P	17	26.00	-0.7			0.6s		6.75nm			4.8mb
LIT	1.69	6	iPb	10	22.42	-0.2		1.0s		42.00nm			5.0mb		MAF	47.27	309	eP	20	40.00	-0.3
			eSb	10	45.64		GUN	24.93	81	P	17	30.40	0.0			0.6s		2.70nm			4.4mb
VLI	1.78	162	ePb	10	24.00	0.0	ELL	25.50	299	eP	17	36.60	1.2		TCF	47.52	309	eP	20	41.50	-0.8
PAIG	1.87	36	iPb	10	24.73	-0.5	KHL	26.22	303	iP	17	42.80	0.8			0.6s		5.60nm			4.8mb
			eSb	10	48.00		SKO	33.18	306	iP	18	44.20	0.2		CAF	47.54	307	eP	20	41.90	-0.6
KZN	1.92	349	ePb	10	27.00	1.0	OJC	37.06	319	eP	19	16.10	-0.9			0.6s		9.00nm			5.0mb

02d 16h

RJF 47.95 308 eP 20 45.10 -0.6
0.5s 7.50nm 5.0mb
LPO 48.16 307 eP 20 47.10 -0.2
0.6s 6.60nm 4.8mb
LFF 48.48 307 eP 20 49.40 -0.4
0.5s 10.95nm 5.1mb
LDF 49.26 312 eP 20 54.50 -1.2
0.5s 2.50nm 4.5mb
MBC 76.97 359 eP 23 58.00 -0.7
1.0s 1.00nm 3.8mb
WRA 87.60 114 P 24 55.70 0.9
0.6s 1.00nm 4.3mb
WB2 87.61 114 iPc 24 55.10 0.3
0.7s 3.20nm 4.7mb
YKA 90.60 356 eP 25 11.10 2.8
1.0s 1.20nm 4.2mb
S.D. = 1.0 on 81 of 82 obs.

? MAY 02, 1993 17h 24m 33.17± 2.27s
31.337 S ±19.7km 68.657 W ±13.9km
DEPTH = 97.3 ± 21.7 km
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.16 88 iPc 24 47.30 -0.1
(S) 24 58.80
RTCB 0.19 219 eP 24 47.50 -0.1
(S) 24 59.00
CFA 0.45 127 ePc 24 48.80 0.2
S 25 01.00
RTBS 0.75 244 ePd 24 51.10 0.1
S 25 05.10
RTPR 2.11 61 ePd 25 07.70 0.1
MRA 2.73 114 ePc 25 15.80 -0.1
S 25 42.10
S.D. = 0.2 on 6 of 6 obs.

? MAY 02, 1993 17h 29m 03.09± 6.04s
32.547 S ±33.4km 72.097 W ±33.3km
DEPTH = 9.4 ± 4.0 km
OFF COAST OF CENTRAL CHILE (134)
MD 3.8 (SAN).

ROCH 1.01 115 iP 29 22.29 -0.1
iS 29 31.59
LCCH 1.03 155 iP 29 22.80 0.3
iS 29 32.38
JACH 1.28 96 iP 29 27.16 0.3
iS 29 40.88
PEL 1.33 117 iP 29 27.50 -0.2
iS 29 41.31
TACH 1.47 139 iP 29 29.24 -0.5
iS 29 43.91
SAN 1.51 127 iP 29 30.10 -0.1
LNV 1.52 158 iP 29 30.11 -0.2
iS 29 46.14
FCH 1.71 118 iP 29 33.32 -0.1
iS 29 51.80
PCH 1.71 129 iP 29 33.27 0.1
CHCH 1.84 139 iP 29 35.70 0.6
S.D. = 0.4 on 10 of 10 obs.

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* MAY 02, 1993 17h 46m 36.30± 1.62s
3.610 N ±10.2km 127.684 E ±20.4km
DEPTH = 83.5 ± 19.0 km
4.8mb (2 obs.)
TALAUD ISLANDS, INDONESIA (263)

TNE 2.81 187 eP 47 20.00 0.0
MNI 3.56 233 ePd 47 31.00 0.6
PLP 7.97 340 ePd 48 31.20 -0.3
MTN 16.70 168 eP 50 26.00 -0.6
WB2 24.31 165 iPc 51 58.00 10.6X
0.5s 17.20nm
CHG 31.90 300 eP 52 56.00 -0.1
e 01 09.90
STK 37.69 160 eP 53 56.30 11.0X
0.6s 1.80nm
BJI 37.73 346 eP 53 45.50 0.0
1.5s 34.00nm 5.1mb
LZH 39.09 329 eP 53 56.00 -1.2
pP 54 04.50 29kmX
BRS 39.19 143 iPc 54 11.00 13.0X
ARMA 40.85 148 eP 54 25.10 13.4X
0.4s 6.00nm
YAK 58.29 1 eP 56 26.00 1.7
IMA 82.11 24 eP 58 56.10 7.2X
0.8s 4.90nm 4.5mb

OBN 87.69 325 eP 59 28.50 11.8X
YKA 99.21 25 eP 00 21.80 12.2X
0.7s 0.20nm
KHC 102.74 322 ePdiff00 40.00 14.2X
e 00 45.00
e 02 12.00
GEC2 102.77 322 Pdiffd00 43.30 17.3X
0.8s 1.27nm
e 00 45.00
e 00 50.10
e 00 58.90
S.D. = 1.1 on 8 of 17 obs.

? MAY 02, 1993 17h 53m 33.03± 0.77s
30.528 N ±10.2km 56.603 E ± 9.6km
DEPTH = 33.0km (normal)
4.0mb (4 obs.)
NORTHERN IRAN (348)

MAIO 6.24 22 ePn 55 05.00 -0.4
eSn 56 35.00
TEH 6.79 321 e(P) 55 13.00 -0.1
KER 8.89 298 eP 56 10.00 27.8X
RYD 10.58 239 eP 56 05.00 -0.5
eS 58 02.50
MJMA 11.01 248 eP 56 10.00 -1.4
DHJN 17.51 226 eP 57 38.00 1.4
eS 59 32.67
NDI 18.02 91 eP 57 42.00 -0.6
CSS 20.06 289 eP 58 11.00 4.8X
HFS 41.07 329 eP 01 15.10 0.3
0.6s 1.10nm 3.8mb
LPG 41.36 306 eP 01 26.10 8.3X
0.7s 2.55nm 4.1mb
LPL 41.37 306 eP 01 25.50 7.7X
1.0s 3.40nm 4.0mb
YKA 87.04 356 eP 06 17.20 1.2
0.9s 0.90nm 4.0mb
S.D. = 1.1 on 8 of 12 obs.

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* MAY 02, 1993 17h 55m 45.06± 1.88s
62.158 N ±10.8km 4.803 E ±17.3km
DEPTH = 10.0km (geophysicist)
NORWEGIAN SEA (642)
MD 2.8 (BER).

FOO 0.57 168 iPc 55 58.40 1.7
iS 56 04.53
SUE 1.11 181 iPd 56 05.48 -0.3
eS 56 19.20
HYA 1.19 146 iPc 56 08.20 0.9
iS 56 22.54
MOL 1.34 71 iPd 56 11.91 2.1
eS 56 28.47
ASK 1.69 173 iPd 56 14.85 0.1
eS 56 35.26
EGD 1.90 174 iPc 56 17.54 -0.3
eS 56 40.35
ODD1 2.42 158 iPd 56 25.21 -0.1
eS 56 51.79
KMY 2.96 176 iPc 56 32.10 -0.9
eS 57 03.94
NRA0 3.54 111 Pn 56 40.15 -0.9
Lg 57 32.88
HFS 4.76 111 eP 56 58.00 -0.5
0.1s 0.50nm
FIA0 10.09 85 Pn 58 10.75 -2.1
Lg 01 00.32
ARA0 11.19 40 Pn 58 28.28 0.3
S.D. = 1.3 on 12 of 12 obs.

MAY 02, 1993 17h 58m 23.03± 0.38s
14.577 N ± 7.1km 40.099 E ± 6.3km
DEPTH = 10.0km (geophysicist)
4.8mb (43 obs.) 4.3Msz (2 obs.)
ETHIOPIA (558)

ARO 4.04 138 eP+ 59 26.00 -0.4
S 00 34.00
AAE 5.67 193 ePn 59 50.00 0.4
SKO 31.71 333 iP 04 49.40 0.3
i 05 19.50
MLR 33.06 342 eP 05 03.00 2.0
CMP 33.14 340 ePd 05 03.00 1.4
GBA 36.20 87 P 05 30.00 1.9
0.9s 2.00nm 4.0mb
PTJ 37.25 332 iPc 05 34.60 -2.1

VBY 37.28 331 eP 05 37.60 0.8
SRO 37.74 336 eP 05 43.30 2.6
e 06 11.60
CEY 37.85 330 e(P) 05 41.50 -0.1
LJU 38.02 331 e(P) 05 44.00 0.9
SPC 38.17 339 eP 05 45.90 1.4
e 06 15.60
VOY 38.31 330 eP 05 46.10 0.4
e 06 15.90
e 07 45.00
ZST 38.54 335 iP 05 48.20 0.8
i 06 18.00
KBA 39.33 331 iPc 05 54.00 -0.3
0.9s 9.50nm 4.5mb
i 06 00.60
i 06 13.10
VRAC 39.63 336 eP 05 56.50 0.1
1.2s 81.00nm 5.3mb
e 06 26.90
BHG 40.02 331 eP 06 01.00 1.3
0.9s 16.00nm 4.7mb
WTTA 40.28 330 iPc 06 02.70 0.6
1.2s 17.30nm 4.6mb
OGA 40.31 329 iPc 06 03.80 1.4
i 06 33.80
GEC2 40.48 333 P 06 03.50 -0.1
0.8s 10.06nm 4.6mb
e 06 33.60
OBN 40.53 357 eP 06 03.00 -0.8
1.1s 39.00nm 5.0mb
OSS 40.63 328 iPc 06 06.20 1.2
KHC 40.74 333 P 06 05.50 -0.2
1.0s 8.90nm 4.4mb
i 06 36.00
TMA 40.91 327 iPc 06 07.60 0.3
KSP 40.97 337 ePc 06 07.70 0.2
i 06 38.00
PRU 40.99 335 eP 06 07.60 0.0
e 06 37.40
WET 41.06 333 iPc 06 08.00 -0.3
LLS 41.34 328 iPc 06 11.00 0.1
MMK 41.37 326 iPc 06 11.30 0.2
DIX 41.69 326 iPc 06 13.90 0.1
LPG 41.70 324 eP 06 12.60 -1.3
1.2s 19.95nm 4.7mb
LPL 41.72 324 eP 06 12.70 -1.3
1.1s 12.20nm 4.5mb
BRG 41.92 335 eP 06 14.80 -0.4
1.4s 24.00nm 4.7mb
i 06 16.00
i 06 45.20
EMS 41.95 325 iPc 06 15.30 -0.5
SLE 42.19 328 iPc 06 17.40 -0.2
GRF 42.20 332 ePc 06 17.10 -0.5
Z 19s 0.20um 4.0Msz
e(pP) 06 47.00 132kmX
CLL 42.63 335 iPc 06 20.40 -0.7
1.2s 14.00nm 4.6mb
ipP 06 50.00 131kmX
MOX 42.72 333 eP 06 21.70 -0.2
1.2s 19.00nm 4.7mb
e 06 51.20
BSF 43.11 327 eP 06 24.40 -0.8
1.1s 23.95nm 4.8mb
CDF 43.23 328 eP 06 25.30 -0.9
1.0s 12.80nm 4.6mb
GKN 43.36 65 P 06 27.00 -0.6
1.4s 74.00nm 5.3mb
HAU 43.45 327 eP 06 27.00 -0.9
1.3s 23.85nm 4.8mb
DMN 43.72 65 P 06 30.60 0.0
1.0s 54.00nm 5.3mb
KKN 43.89 65 P 06 31.20 -0.8
0.9s 34.00nm 5.2mb
PKI 43.98 65 P 06 32.20 -0.6
0.8s 19.00nm 5.0mb
SMF 44.01 324 eP 06 31.30 -1.1
1.4s 17.85nm 4.7mb
CAF 44.13 321 eP 06 33.40 0.0
1.3s 18.05nm 4.8mb
LBF 44.13 325 eP 06 32.20 -1.2
1.0s 22.20nm 5.0mb
LOR 44.36 325 eP 06 34.20 -1.0
0.9s 17.35nm 4.9mb
AVF 44.37 324 eP 06 34.20 -1.1
1.2s 18.15nm 4.8mb
GUN 44.44 65 P 06 35.80 -0.7

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SSF     44.44 324 eP     06 34.60  -1.3
        1.0s     14.40nm          4.8mb
MAF     44.51 323 eP     06 35.80  -0.7
        1.3s     10.10nm          4.5mb
BGF     44.54 323 eP     06 36.10  -0.6
        1.0s     28.20nm          5.1mb
LPO     44.54 320 eP     06 36.70  -0.1
        1.0s     12.80nm          4.8mb
WLF     44.60 329 P      06 39.00   1.9
RJF     44.66 321 eP     06 37.40  -0.3
        1.3s     11.90nm          4.6mb
LFF     44.95 320 eP     06 39.90  -0.1
        0.9s     12.30nm          4.8mb
LSF     45.14 322 eP     06 41.00  -0.5
        0.9s      6.20nm          4.5mb
ENN     45.42 330 eP     06 44.00   0.4
        1.0s     19.00nm          5.0mb
                  e      07 14.00
DOU     45.66 328 P      06 46.90   1.4
                  e      07 15.30
WTS     45.82 332 eP     06 47.50   0.8
        1.0s     23.10nm          5.1mb
                  e      07 17.00
SNF     46.07 329 P      06 49.70   1.0
                  e      07 18.70
WIT     46.43 333 eP     06 52.00   0.5
NUR     47.23 350 iP     06 57.10  -0.6
        0.7s     11.00nm          5.1mb
UPP     48.13 345 iP     07 03.90  -1.0
KAF     48.48 351 iP     07 08.00   0.4
        0.6s      2.80nm          4 5mb
HFS     49.42 343 eP     07 13.10  -1.7
        1.2s     23.30nm          5.0mb
      Z  16s      0.06um          3.7MszX
                  LR     19 08.00
NB2     50.87 342 P      07 24.60  -1.4
        0.7s     11.30nm          4.9mb
EKA     52.54 330 P      07 39.00   0.4
        0.8s      4.40nm          4.4mb
LZH     60.42  57 eP     08 35.00  -0.5
        1.5s     40.00nm          5.3mb
      Z  20s      0.35um          4.5Msz
                  i      09 05.00
BJI     70.18  52 eP     09 39.00   0.9
        1.0s     11.00nm          4.9mb
                  e      10 08.00
YAK     77.08  29 eP     10 17.80  -0.1
                  e      10 46.00
MAT     87.81  53 eP     11 43.00  29.0X
MBC     88.52 355 eP     11 17.50   0.8
        1.0s      2.00nm          4.4mb
YKA    100.66 348 ePdiff12 13.10   0.7
        0.6s      0.40nm          4.2mb
     S.D. = 0.9  on  75 of  76 obs.
--------------------------------------
   MAY  02, 1993  18h 13m 07.54± 1.14s
   11.427 N ±10.7km   86.836 W ± 7.7km
   DEPTH =  59.3 ±  9 9 km
   4.2mb (  8 obs.)
 NEAR COAST OF NICARAGUA          ( 74)
     MD 4.4 (APY).

PYN      0.97 349 ePc    13 24.42  -0.8
                  eS     13 42.26
SSN      0.97  97 iP     13 23.74  -1.6
PYT      1.33  35 eP     13 30.23   0.0
TPX      6.31 304 (P)    15 07.00  26.8X
OXX     11.11 302 (P)    15 48.00   1.6
IISM    12.64 308 (P)    16 08.00   1.4
PPM     13.67 305 (P)    16 19.00  -1.7
III     14.02 301 (P)    16 25.00   0.0
MRX     16.08 303 (P)    16 53.00   1.6
SDV     16.15  98 eP     16 52.50   0.1
TOV     16.83  94 eP     17 02.50   1.6
CAR     19.57  91 eP     17 36.00   2.3
MEO     25.59 337 iPd    18 32.10  -0.8
ELC     25.84 356 eP     18 34.38  -0.7
ACO     27.50 338 iPd    18 50.30  -0.1
ALO     29.43 326 eP     19 08.81   0.8
        1.1s      5.24nm          4.1mb
TUC     30.29 317 (P)    19 15.47  -0.1
        1.0s      4.07nm          4.1mb
GOL     32.60 333 eP     19 35.23  -0.7
        0.7s      4.25nm          4.4mb
                  e      19 43.81
ZOBO    33.17 146 eP     19 43.00   1.7
      Z  24s      0.18um          3.7MszX

                  LR     55 04.00
PV08    33.31 328 eP     19 42.34   0.2
PV10    33.37 327 eP     19 41.36  -1.2
                  e      19 47.31
PV09    33.51 327 eP     19 44.13   0.3
RSNY    34.66  16 eP     19 51.89  -1.4
        0.8s      9.32nm          4 8mb
SRU     34.70 327 eP     19 53.66  -0.3
PLM     35.09 313 (P)    19 55.72  -1.7
MSU     35.19 324 eP     19 58.77   0.6
EMUT    35.36 327 eP     20 00.23   0.6
EEO     35.71   9 eP     20 04.00   1.8
DAU     36.03 328 eP     20 04.24  -1.1
DUG     36.71 326 (P)    20 11.47   0 6
        0.9s      3.04nm          4.2mb
BW06    36.96 332 eP     20 10.60  -2.4
        0.6s      2.23nm          4.3mb
SIV     37.31 136 P      20 29.00  13.0X
HVU     37.81 328 eP     20 20.77   0.7
LMN     39.10  25 eP     20 33.50   2.8
ULM     39.42 351 eP     20 34.00   0.8
JAO     43.19  10 eP     21 02.50  -1.6
VGB     44.61 326 eP     21 16.90   1.1
                  e      21 26.76
DPW     44.83 330 eP     21 17.59   0.1
BAO     46.92 124 eP     21 32.80  -1.7
FCC     47.56 355 eP     21 41.00   2.3
PPD     48.17 134 (P)    21 42.00  -2.1
FRB     53.82  10 eP     22 23.50  -2.6
YKA     54.75 345 eP     22 29.50  -3.6X
        1.0s      3.80nm          4.4mb
INK     64.35 343 eP     23 39.50   0.5
MBC     67.11 352 eP     23 55.00  -1.5
        1.0s      2.00nm          4.1mb
WB2    139.54 253 ePKP   32 30.10  -1.0
        0.7s      3.10nm
WRA    139.55 253 PKP    32 31.00  -0.1
        0.8s      1.20nm
CHG    149.42 349 ePKP   32 52.00   4.3X
GBA    150.64  33 PKP    32 51.00   1.4
     S.D. = 1.4  on  45 of  49 obs.
--------------------------------------
? MAY  02, 1993  19h 02m 09.14± 6.16s
   30.997 S ±29.8km   69.574 W ±45.0km
   DEPTH =  29.7 ± 13.7 km
 CHILE-ARGENTINA BORDER REGION    (127)

RTBS     0.67 171 ePd    02 22.30   0 0
                  S      02 34.00
RTCB     0.82 127 eP     02 25.30   0.6
                  S      02 40.20
RTLL     1.00 110 iPc    02 27.80   0.6
                  S      02 44.70
CFA      1.29 118 ePd    02 30.20  -1.1
                  S      02 48.00
RTPR     2.73  76 e(P)   02 51.80   0.0
     S.D. = 1.4  on   5 of   5 obs.
--------------------------------------
* MAY  02, 1993  19h 08m 24.22± 2.32s
   58.916 N ±23.9km    1.201 E ± 9.9km
   DEPTH =  33.0km  (normal)
 NORTH SEA                        (534)
     MD 2.7 (BER).

LRW      1.72 316 eP     08 52.19  -0.1
                  eS     09 11.51
KMY      2.11  80 eP     08 58.74   0.9
                  eS     09 23.62
EGD      2.46  55 eP     09 02.51  -0.3
                  eS     09 29.38
ASK      2.56  50 eP     09 03.95  -0.3
                  eS     09 31.92
BER      2.56  53 eP     09 04.43   0.1
                  eS     09 32.62
SUE      2.80  38 eP     09 07.33  -0.2
                  eS     09 38.61
ODD1     2.95  68 eP     09 09.98   0.2
                  eS     09 42.63
FOO      3.30  34 eP     09 15.70   0.9
                  eS     09 51.28
NRA0     5.53  66 Pn     09 45.04  -1.2
                  Sn     10 44.35
     S.D. = 0.8  on   9 of   9 obs.
--------------------------------------
   MAY  02, 1993  19h 13m 46.70± 0.30s
   36.960 N ± 5.0km  137.922 E ± 2.8km
   DEPTH = 205.9 ±  3.1 km

   4.8mb ( 75 obs.)
 EASTERN HONSHU, JAPAN            (227)

MTMJ     0.39 194 P      14 15.40   1.0
MAT      0.48 151 iPd    14 14.70   0.1
                  eS     14 36.00
NIIJ     0.91  72 iPd    14 16.60  -0.1
CHJJ     1.26 136 iPd    14 18.30  -0.9
                  S      14 41.80
SHK      4.91 242 iP     15 02.20   1.6
SSE     15.05 252 Pc     17 11.00   0.6
        1.0s     25.00nm          4.6mb
      Z  20s      0.60um
      E  10s      0.20um
                  pP     17 16.50
                  S      19 58.00
                  sS     20 02.00
BJI     17.29 287 eP     17 35.00  -2.0
        1.2s    228.00nm          5.5mb
      Z  16s      0.52um          3.1Msz
      E  10s      0.49um
                  eS     20 42.00
                  e      21 30.00
YAK     25.60 351 iPd    18 57.50  -0.8
        1.1s    525.00nm          6.1mb X
                  epP    19 29.00 153kmX
                  ePP    19 53.00
                  iS     23 08.00
                  e      26 34.00
                  iScS   29 28.00
LZH     27.32 279 eP     19 13.00  -1.4
        2.0s     67.00nm          5.0mb
      Z  20s      0.35um          3.9Msz
                  sP     19 57.50
IRK     28.09 314 eP     19 19.30  -1.6
        1.0s     27.00nm          4.9mb
CHG     38.58 253 eP     20 51.10  -0.2
GUN     44.38 274 P      21 39.00   0.2
PKI     44.90 274 P      21 43.00   0.1
KKN     44.91 274 P      21 42.40  -0.4
DMN     45.12 274 P      21 44.40  -0.1
GKN     45.33 275 P      21 46.20   0.2
TTA     47.08  35 eP     21 59.00  -0.2
SVW     47.26  37 ePc    22 01.10   0.5
        0.9s     43.92nm          4.9mb
IMA     48.17  31 eP     22 06.76  -0.9
        1.0s      7.54nm          4.1mb
                  iPcP   23 31.48
PMR     50.35  36 eP     22 22.91  -1.2
        0.9s     37.46nm          4.9mb
FBA     50.65  32 ePc    22 26.02  -0.4
        1.0s     16.89nm          4.5mb
KLU     51.89  36 ePc    22 34.54  -1.3
BALM    53.67  36 ePd    22 48.12  -0.9
HYB     55.41 266 eP     23 01.50  -0.5
        1.0s     90.00nm          5.4mb
INK     55.72  27 eP     23 04.50   1.0
        0.8s      5.00nm          4.3mb
WRA     56.70 184 P      23 09.10  -1.8
        0.5s      3.70nm          4.4mb
MBC     57.38  16 ePc    23 14.20  -0.9
        1.0s     10.00nm          4.5mb
GBA     58.43 263 Pd     23 23.00  -0.1
POO     58.57 270 iPd    23 25.40   1.2
MAIO    61.14 295 iPd    23 41.80   0.3
KEV     62.50 338 iP     23 49.50  -0.4
SDF     63.98 336 iP     23 59.00  -0.6
DZM     64.59 151 iPc    24 03.10  -0.9
YKA     65.26  29 eP     24 06.40  -1.4
        0.8s      6.60nm          4.5mb
BRS     65.52 165 iP     24 09.00  -0.9
DAG     65.60 354 eP     24 09.20  -0.6
        0.8s      8.96nm          4.6mb
OBN     66.45 322 ePd    24 15.00  -0.5
        1.0s     88.00nm          5.4mb
                  e      24 37.00
                  e      25 02.50
KAF     67.07 332 iP     24 18.40  -0.9
        0.6s     21.80nm          5.1mb
STK     68.57 177 eP     24 27.80  -1.0
        0.5s      2.90nm          4.3mb
NUR     68.67 331 iP     24 28.50  -0.7
        0.5s     22.00nm          5.1mb
                  ePP    27 00.00
GMW     69.34  46 ePc    24 34.16   0.6
TAB     69.51 303 eP     24 36.00   1.0
LON     70.34  46 P      24 39.43  -0.3
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02d 19h

SHW	70.39	47	eP	24	40.53	0.4				e	26	32.50		ALQ	86.74	48	eP	26	08.58	-0.2
ASR	70.79	46	P	24	42.32	-0.2				e	28	47.00			1.2s	6.52nm				4.3mb
EBG	70.96	45	P	24	43.58	0.2	GEC2	81.27	326	P	25	41.20	0.3				e	27	02.85	
SSOR	71.00	48	P	24	43.87	0 1		1.2s	13.92nm				4.6mb	LBF	86.80	330	iPd	26	08.00	-0.7
SAW	71.17	44	P	24	44.24	-0.4				e	28	49.60			1.1s	9.50nm				4.5mb
VBEM	71.40	47	P	24	46.14	-0.1	PLM	81.28	55	eP	25	41.00	-0.4	LPL	86.86	328	iPd	26	08.90	-0.3
DPW	71.74	43	iPc	24	47.91	-0.1	WET	81.40	327	iPc	25	42.60	1.1		0.8s	3.75nm				4.3mb
UPP	71.76	333	iP	24	46.70	-1.1		1.2s	22.00nm				4.8mb	LPG	86.86	328	iPd	26	09.00	-0.3
CROR	71.79	47	P	24	48.45	0.0	SRU	81.54	47	iPc	25	42.97	0.4		0.8s	3.75nm				4.3mb
NEW	72.11	43	ePc	24	49.89	-0.3	GRF	81.70	328	iPd	25	44.10	1.1	SSF	86.92	331	iPd	26	08.70	-0.5
	0.8s	27.08nm				5.0mb		1.2s	63.00nm				5.2mb		1.0s	10.60nm				4.6mb
		e		24	57.73					e(PP)	28	55.00		SMF	87.13	330	iPd	26	09.70	-0.5
JBO	72.19	46	P	24	50.78	0.1	RSSD	81.71	40	eP	25	43.20	-0.3		0.7s	2.75nm				4.2mb
ViPM	72.28	47	P	24	51.42	0.0		0.6s	6.66nm				4.5mb	AVF	87.21	331	iPd	26	10.10	-0.4
LNOR	72.85	45	P	24	54.69	0.2	VAY	82.22	317	iP	25	46.50	0.7		1.1s	12.20nm				4.6mb
LGPM	72.96	51	iPc	24	55.76	0.4	EKA	82.23	339	Pd	25	45.40	-0.2	GRR	87.44	334	iPd	26	11.30	-0.3
HFS	72.97	334	eP	24	53.20	-1.7		1 3s	14.90nm				4.6mb		1.0s	11.60nm				4.7mb
	0.4s	6.30nm				4.7mb	SKO	82.38	318	iP	25	47.50	0.8	SBF	87.87	327	iPd	26	12.60	-1.3
Z	16s	0.04um				3.8MszX		1.2s	63.00nm				5.2mb		1.0s	15.60nm				4.8mb
		LR		58	14.00		PTJ	82.39	323	iP	25	46.60	-0.2	MAF	87.98	331	iPd	26	14.20	-0.1
NB2	73.14	336	P	24	55.40	-0.6	BHG	82.47	326	eP	25	48.00	1.0		1.0s	6.80nm				4.4mb
	0.9s	37.10nm				5.1mb		1.4s	64.00nm				5.2mb	SOI	88.06	318	P	26	14.70	-0.1
LBFM	73.30	51	iPc	24	57.64	0.2	PLE	82.52	320	eP	25	48.27	0.8	PGF	88.20	325	iPd	26	14.70	-0.8
NAO	73.43	336	P	24	56.09	-1.5	IVA	82.58	319	iPd	25	48.56	0.8		1.0s	11.80nm				4.7mb
ORV	74.57	52	iPc	25	03.90	-0.6	PVY	82.73	319	iPd	25	49.23	0.6	LSF	88.36	331	iPd	26	15.80	-0.3
FCC	75.29	25	ePc	25	11.10	2.9X	KBA	82.74	325	iPc	25	49.10	0.4		1.2s	14.00nm				4.7mb
BSD	76.16	330	iP	25	13.70	0.6		1.2s	31.50nm				4.9mb	FRF	88.45	327	iPd	26	15.50	-1.1
	0.7s	25.00nm				5.1mb				i	25	55.00			1.2s	14.00nm				4.7mb
CMB	76.16	53	eP	25	13.10	-0.5				i	29	02.50		LRG	88.66	327	iPd	26	16.80	-0.8
	0.8s	19.88nm				4.9mb				i	29	05.10			1.2s	30.35nm				5.1mb
LCCM	76.43	42	iPc	25	15.10	0.1	PV09	82.76	47	ePc	25	49.66	0.6	LMR	88.70	327	iPd	26	16.90	-0.8
COP	76.70	332	iPd	25	16.30	0.2	GLA	82.79	54	ePd	25	49.28	0.3		1.1s	21.50nm				5.0mb
	0.7s	57.08nm				5.4mb	FUR	82.84	327	iPd	25	49.70	0.8	MFF	88.70	333	iPd	26	17.60	-0.1
VRI	76.94	318	ePd	25	18.50	0.8		0.9s	43.00nm				5.2mb		1.2s	20.55nm				4.9mb
KVN	77.00	51	eP	25	18.60	0.3	PV10	82.89	47	iPc	25	50.57	0.9	RJF	89.16	331	iPd	26	19.70	-0.2
CVO	77.27	318	eP	25	20.50	1.0	LJU	82.96	324	ePd	25	49.40	-0.2		1.4s	14.40nm				4.7mb
FRB	77.45	12	eP	25	19.50	-0.6				ePP	29	03.00		CAF	89.25	330	iPd	26	20.50	0.1
	0.8s	5.00nm				4.3mb	PV08	82.99	46	iPc	25	50.69	0.4		1.3s	15.90nm				4.8mb
ISR	77.51	318	eP	25	21.00	0.1	VBY	83.02	323	ePd	25	50.30	0.5	LFF	89.76	331	iPd	26	22.90	0.2
OJC	77.51	325	eP	25	21.10	0.4	NKY	83.09	320	iPd	25	50.47	0.0		1.3s	29.25nm				5.1mb
	0.9s	93.00nm				5.5mb	RBL	83.12	325	P	25	49.90	-0.5	LPO	89.80	331	iPd	26	22.00	-0.9
		i		25	24.80		TTG	83.22	319	iPd	25	51.32	0.4		1.1s	10.75nm				4.7mb
MLR	77.60	318	ePc	25	21.50	0.0	CEY	83.24	324	eP	25	50.60	-0.4	EEO	90.40	24	eP	26	28.50	2.9
TNP	78.14	51	eP	25	24.34	-0.3	BRY	83.26	320	eP	25	51.12	-0.2	GAC	92.38	23	eP	26	35.50	0.8
	0.8s	27.77nm				5.0mb	VOY	83.27	324	ePd	25	50.60	-0.7	ARE	146.94	60	e(PKP)	33	08.00	3.3X
CMP	78.23	318	ePc	25	26.00	1.2	OHR	83 33	317	iP	25	51.60	0.0	ZOBO	149.08	55	PKP	33	08.00	-0.5
HVU	78.50	46	iPc	25	27.13	0.6		1.1s	123.00nm				5.6mb	LPB	149.29	55	PKP	33	13.00	4.4X
		e		25	33.60		FVI	83.36	325	P	25	51.10	-0.4	CNCB	149.56	56	PKP	33	10.20	1.0
KSP	78.66	327	iPd	25	27.60	0.7	WTTA	83.37	326	iPc	25	51.40	-0.4	SIV	153.17	44	PKP	33	28.20	14.4X
	1.0s	41.00nm				5.1mb		1.1s	15.60nm				4.7mb				i	33	34.00	
		e		28	17.60					i	29	07.60					i	33	47.60	
		e		28	28.60		BDV	83.55	319	iPd	25	52.67	0.0		S.D. = 0.8		on 182 of 186 obs.			
TPNV	79.44	52	eP	25	31.90	0.3	ULC	83.56	319	iPd	25	52.74	0.1	---						
DUG	79.49	47	iPd	25	32.25	0.4	TRI	83.57	324	P	25	52.20	-0.4	&	MAY 02, 1993		19h 16m 40.65s			
	1.0s	21.60nm				4.8mb	HCY	83.61	320	iPd	25	52.82	-0.1		61.155 N			152.285 W		
VRAC	79.63	325	iPd	25	33.00	0.9	WLF	83.78	331	P	25	54.00	0.4		DEPTH = 130.0km					
	1.1s	60.70nm				5.2mb	SNF	83.81	332	P	25	54.10	0.4		SOUTHERN ALASKA					(2)
BRG	79.66	328	iPd	25	32.40	0.1	OGA	83.94	327	iPc	25	55.40	0.6		<AEIC>.					
	1.0s	22.00nm				4.8mb	GOL	84.08	44	ePc	25	56.41	0.7							
		e		28	30.50			1.5s	23.71nm				4.7mb	CKL	0.05	328	iPc	16	57.83	0.8
BW06	79.68	44	eP	25	32.64	-0.2	GLD	84.13	44	eP	25	57.09	1.3				eS	17	11.40	
	0.8s	11.24nm				4.6mb		1.6s	37.23nm				4.9mb	CKT	0.06	40	iPc	16	57.67	0.7
CLL	79.73	328	iPd	25	32.80	0.2	CTI	84.29	326	P	25	55.50	-0.9				eS	17	11.54	
	1.2s	48.00nm				5.1mb	CDF	84.33	329	iPd	25	56.30	-0.2	CKN	0.09	36	iPc	16	57.91	1.0
CSS	79.88	306	eP	25	33.60	-0.2		1.1s	25.90nm				4.9mb	CP2	0.11	11	ePc	16	58.18	1.0
SRO	79.89	323	iP	25	34.30	0.7	OSS	84.47	327	iPd	25	57.60	0.2	SPU	0.11	76	iPc	16	57.71	0.7
		e		28	36.60		LLS	84.82	328	iPd	25	59.20	0.0	BGL	0.12	335	ePc	16	57.82	0.8
PRU	80.05	327	iPd	25	34.70	0.3	BSF	84.99	329	iPd	25	59.20	-0.6	CPAM	0.12	35	ePc	16	57.80	0.8
	1.0s	28.10nm				4.9mb		1.2s	13.40nm				4.6mb	CRP	0.13	29	ePc	16	57.85	0.7
		e		25	39.60		HAU	85.03	330	iPd	25	59.30	-0.6	CGLM	0.20	41	eP	16	57.97	0.8
		e		28	39.00			0.9s	7.85nm				4.5mb	DFR	0.60	199	ePd	16	59.60	-1.1
GSC	80.11	53	ePc	25	35.02	-0.1	TMA	85.47	327	iPd	26	02.00	-0.4	NKA	0.66	129	ePc	17	02.09	1.2
ZST	80.19	324	eP	25	35.60	0.5	RSM	85.52	324	P	26	03.80	1.4	NCT	0.67	208	iPd	17	00.28	-0.9
		e		28	42.30		ARV	85.61	323	P	26	03.20	0.3				eS	17	15.86	
DAU	80.26	46	eP	25	35.71	-0.4	VAI	85.70	327	P	26	02.90	-0.3	RDW	0.72	201	iPd	17	00.78	-0.9
ARUT	80.65	50	eP	25	38.45	0.5	SFI	85.81	324	P	26	05.00	1.2	RS2	0.73	199	ePd	17	00.93	-0.9
PEC	80.75	55	eP	25	37.62	-0.8	TUC	85.86	52	ePd	26	04.89	0.5	RSO	0.73	198	ePd	17	00.88	-0.9
	0.6s	7.47nm				4.6mb		0.8s	6.16nm				4.5mb	RS1	0.73	199	ePd	17	00.94	-0.9
MOX	80.81	329	iPd	25	38.80	0.5	MMK	85.91	328	ePd	26	04.50	-0.1	SUA	0.81	67	iPc	17	02.04	-0.2
	1.5s	24.00nm				4.7mb	PGD	85.91	324	P	26	05.60	1.0				eS	17	18.33	
		e		28	43.50		CRE	85.99	324	P	26	05.40	0.5	SKT	0.90	23	iPc	17	02.00	-1.0
EMUT	80.91	47	ePc	25	39.63	0.2	ASS	86.07	323	P	26	05.40	0.2				eS	17	18.75	
MSU	80.95	48	iPc	25	40.59	1.0	FIR	86.20	324	e(P)	26	06.50	0.8	INE	1.16	200	iPd	17	04.56	-1.1
HOF	80.95	328	eP	25	39.50	0.4	AQU	86.25	322	P	26	06.90	0.8	INW	1.17	201	iPd	17	04.65	-1.0
ULM	81.07	32	eP	25	42.50	2.8	MNS	86.58	323	P	26	07.00	-0.7	SLKM	1.20	122	ePc	17	05.67	-0.2
KHC	81.11	327	Pd	25	40.60	0.6	LOR	86.62	331	iPd	26	07.20	-0.5				eS	17	24.88	
	1.0s	12.50nm				4.6mb		1.2s	17.25nm				4.8mb	PWA	1.26	66	P	17	05.60	-0.8

PMS	1.32	85	P	17	06.60	-0.6
BRLK	1.56	153	eP	17	09.20	-0.6
			eS	17	31.07	
OPT	1.58	198	eP	17	09.38	-0.7
MPA	1.58	114	iPc	17	09.69	-0.3
			eS	17	32.45	
PLRM	1.58	73	eP	17	08.51	-1.5
			eS	17	31.28	
PTE	1.62	99	iPc	17	09.32	-1.1
SVW	1.62	270	P	17	08.10	-2.4
PDB	1.67	215	iPd	17	09.83	-1.2
CNPM	1.72	162	eP	17	10.55	-1.1
			eS	17	33.88	
GHO	1.73	68	ePc	17	10.57	-1.3
			eS	17	34.52	
SEW	1.75	126	eP	17	11.43	-0.5
AUL	1.87	198	eP	17	12.53	-0.9
AUH	1.89	198	ePd	17	12.81	-0.9
AUI	1.91	198	eP	17	12.90	-1.1
SML	2.01	69	ePc	17	13.55	-1.6
HUR	2.21	33	eP	17	16.48	-1.3
			eS	17	43.45	
MCNL	2.23	208	iPd	17	16.56	-1.3
CDD	2.33	198	iPd	17	17.91	-1.4
SCM	2.47	72	ePc	17	19.83	-1.3
TRF	2.49	21	ePd	17	19.61	-1.8
TTA	2.50	317	P	17	19.10	-2.4
SYI	2.55	181	eP	17	20.93	-1.1
RND	2.77	34	eP	17	23.19	-1.8
VLZ	2.89	88	iPc	17	24.82	-1.5
			eS	18	00.20	
HIN	2.94	102	eP	17	24.87	-2.2
KLU	3.09	81	ePc	17	27.51	-1.6
			eS	18	04.99	
CVA	3.26	98	eP	17	30.57	-0.7
RAGM	3.81	98	eP	17	37.81	-0.9

50 obs. associated

& MAY 02, 1993 19h 17m 03.10s
37.975 N 122.350 W
DEPTH = 6.3km
CENTRAL CALIFORNIA (39)
<GM-P>. MD 2.3 (GM). ML 2.2 (BRK). Felt at El Sobrante, Richmond and Hilltop Mall.

BKS	0.13	137	ePc	17	06.15	0.2
			iS	17	08.78	
HMR	0.47	67	eP	17	13.84	1.3
NTYM	0.48	329	ePc	17	12.77	0.0
MHC	0.85	138	ePd	17	20.06	0.2
			eS	17	32.53	
COE	0.90	143	eP	17	20.74	0.1
			eS	17	34.05	
ARN	0.90	134	ePc	17	20.49	-0.2
			eS	17	33.38	
CMB	1.55	87	eP	17	29.95	-1.4

7 obs. associated

? MAY 02, 1993 19h 48m 51.85± 1.05s
17.458 S ±30.4km 178.969 W ±22.9km
DEPTH = 569.2 ± 10.1 km
4.7mb (7 obs.)
FIJI ISLANDS REGION (181)

VUN	2 51	257	ePc	50	06.20	0.0
DZM	14 48	249	iPc	51	56.00	0.5
BRS	27.87	244	iP	53	58.50	0.0
ARMA	29.71	239	iPd	54	14.30	-0.1
	0.4s		8.00nm			4.7mb
CNB	33 28	231	iPc	54	44.00	-0.5
	0.5s		17.00nm			4.9mb
TOO	37.04	230	eP	55	15.20	-0.3
	0.7s		28.00nm			5.0mb
STK	38.39	240	iPd	55	26.70	0.2
	0.6s		11.70nm			4.7mb
WB2	44.18	259	iPc	56	12.00	-0.6
	0.3s		13.70nm			5.0mb
WRA	44.19	259	P	56	13.10	0.4
	0.6s		4.40nm			4.2mb
LTX	86.21	58	eP	00	35.20	0.4
YKA	94.15	25	eP	01	09.60	-1.0
	0.8s		0.50nm			3.7mb
GEC2	147.04	345	PKP	07	30.30	0.9
			e	07	32.60	

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

& MAY 02, 1993 20h 05m 06.65s
38.814 N 122.806 W
DEPTH = 3.0km
NORTHERN CALIFORNIA (36)
<GM-P>. MD 3.2 (GM). ML 3.2 (BRK).

GACM	0.07	323	P	05	08.39	0.1
GSGM	0.09	55	P	05	09.11	0.5
GMKM	0.16	5	P	05	10.13	0.3
GMCM	0.25	265	P	05	11.89	0.1
NMTM	0.28	92	P	05	12.43	0.1
NSHM	0.33	152	P	05	13.42	0.1
GCWM	0.38	326	P	05	14.27	0.0
GGUM	0.54	275	P	05	17.65	0.2
BBR	0.59	160	P	05	18.40	0.0
LOC	0.66	174	P	05	20.38	0.5
NDHM	0.70	94	P	05	21.98	1.3
GAS	0.84	5	P	05	24.47	1.0
OSUM	0.87	58	P	05	23.53	-0.5
ZSP	0.97	153	iPd	05	25.13	-0.6
			eS	05	40.17	
DUC	1.01	141	P	05	27.07	0.7
CVPM	1.04	154	P	05	26.72	-0.2
BKS	1.04	154	ePc	05	25.51	-1.4
			eS	05	41.65	
KIPM	1.12	332	P	05	29.54	1.1
APRM	1.24	87	P	05	28.20	-2.2
ORV	1.26	53	iPc	05	28.49	-2.1
DOO	1.32	144	P	05	30.63	-1.2
CPLM	1.35	150	P	05	32.32	0.1
PCC	1.35	166	iPc	05	30.30	-2.0
CCYM	1.38	156	P	05	31.04	-1.7
CVLM	1.41	147	P	05	32.10	-1.1
JHPM	1.42	164	P	05	35.25	1.8
MSJ	1.49	150	P	05	32.79	-1.5
MNR	1.53	143	P	05	33.06	-1.8
CSTL	1.56	138	P	05	34.68	-0.7
CVR	1.58	149	P	05	33.95	-1.6
JBMM	1.58	161	P	05	35.91	0.2
MHC	1.73	148	iPd	05	36.15	-1.8
WDC	1.78	7	(P)	05	31.85	-6.6
WDC	1.78	7	eP	05	37.06	-1.4
MIN	1.79	31	iP	05	37.77	-1.0
JSTM	1.79	153	P	05	36.86	-1.8
AMC	1.82	155	P	05	37.29	-1.8
CMPM	1.87	140	P	05	39.52	-0.4
GCC	1.89	160	eP	05	37.80	-2.3
CBO	1.92	152	P	05	38.50	-2.0
JRRM	1.95	154	P	05	39.15	-1.9
JBZM	1.97	155	P	05	40.68	-0.5
CMB	2.05	111	iPc	05	40.96	-1.6
			eS	06	06.75	
SAO	2.31	152	eP	05	43.68	-2.6
BVYM	2.34	151	P	05	44.52	-2.1
ISA	4.67	131	(P)	06	19.33	-0.5
DUG	7.85	77	eP	07	03.94	-0.7
MSU	8.32	89	eP	07	09.86	-1.5
GLA	8.65	129	(P)	07	12.07	-3.7
SRU	9.57	84	(P)	07	26.74	-1.9

50 obs. associated

• MAY 02, 1993 20h 30m 09.71± 0.63s
1.996 S ± 9.3km 137.418 E ±10.1km
DEPTH = 33.0km (normal)
4.6mb (10 obs.) 4.6Msz (3 obs.)
NEAR NORTH COAST OF IRIAN JAYA (197)

TLE	5.90	232	ePd	31	39.00	1.9
MDG	8.95	111	eP	32	20.40	0.7
MTN	12.45	210	eP	33	04.00	-3.5X
			eS	35	19.00	
DAV	14.87	307	eP	33	41.00	1.6
KNA	16.11	211	iPc	33	52.80	-2.6
			eS	36	44.00	
WB2	18.09	189	eP	34	15.70	-4.6X
	0.4s		24.10nm			4.7mb
			eS	37	24.50	
CTA	19.95	155	iPc	34	43.00	1.0
	1.0s		10.00nm			4.1mb
	Z 21s		12.19um			3.1Msz
			eS	39	24.00	
BAG	24.72	318	eP	35	34.00	4.3X
MBL	25.62	221	eP	35	38.00	0.0
	0.6s		12.00nm			4.7mb
WARB	26.19	202	eP	35	42.00	-1.2
BRS	29 22	151	iPc	36	10.00	-0.8
	0.9s		9.00nm			4.5mb
STK	29.99	173	eP	36	15.30	-2.2
	0.5s		3.60nm			4.4mb
ARMA	31.32	156	eP	36	29.70	0.3
	1.0s		19.00nm			4.9mb
BWA	33.86	164	eP	36	51.90	0.4
CAN	34.86	163	eP	37	00.80	0.7
CNB	34.96	163	eP	37	02.00	1.0
TOO	36.17	169	eP	37	12.10	0.9
	0.7s		11.00nm			4.9mb
CHG	43.11	300	eP	38	08.80	-0.1
BJI	46.13	337	eP	38	27.00	-5.8X
	Z 20s		0.54um			4.5Msz
			eS	45	16.00	
LZH	49.14	324	eP	39	05.00	8.4X
	1.4s		26.00nm			5.1mb
	Z 20s		0.50um			4.5Msz
HYB	61.11	291	eP	40	30.00	6.4X
GBA	61.44	287	P	40	33.00	7.3X
YAK	64.11	356	eP	40	41.00	-1.6
	Z 22s		1.40um			5.1Msz
MAIO	81.46	307	eP	42	33.00	7.6X
IMA	83.39	23	eP	42	34.00	-0.9
	0.9s		1.10nm			4.0mb
YKA	100.01	27	ePdiff	43	51.90	-0.8
	0.9s		0.70nm			4.2mb
CNCB	148.73	128	PKP	49	55.00	1.9
ZOBO	148.92	127	PKP	49	58.20	4.8X

S.D. = 1.4 on 19 of 28 obs.

• MAY 02, 1993 20h 39m 05.72± 0.85s
6.357 N ±12.1km 72.314 W ±10.8km
DEPTH = 33.0km (normal)
NORTHERN COLOMBIA (99)

BMG	1.04	313	iPd	39	24.00	-0.1
FUO	1.67	238	iP	39	34.00	0.6
BOG	2.45	225	iPc	39	44.00	-0.6
			eS	40	15.00	
SDV	3.01	33	iPnd	39	53.10	0.7
			iSn	40	30.90	
TOV	4.22	36	ePn	40	08.60	-0.9
			eSn	40	58.30	
CEOS	4.75	56	iP	40	17.30	0.3
			iS	41	15.20	

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

MAY 02, 1993 21h 07m 33.34± 0.43s
43.725 N ± 4.0km 12.466 E ± 4.5km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

RSM	0.20	357	P	07	37.30	-0.5
			eSg	07	42.10	
CRE	0.39	256	P	07	41.30	0.0
			eSg	07	45.80	
ARV	0.41	123	P	07	42.00	0.2
			eSg	07	49.00	
SFI	0.49	294	P	07	42.50	-0.7
			eSg	07	50.00	
PGD	0.56	286	P	07	44.00	-0.8
ASS	0.67	168	P	07	46.80	0.1
			eSg	07	58.00	
MNS	1.35	173	P	07	59.00	0.8
			eSg	08	17.00	
BDI	1.39	285	P	07	59.20	0.3
PII	1.41	270	P	07	59.60	0.6
AQU	1.53	153	P	08	01.00	0.2
SDI	2.25	153	P	08	10.00	-1.2
CTI	2.39	346	P	08	14.00	0.7
CEY	2.45	34	e(Pn)	08	12.50	-1.5
			eSn	08	47.00	
VOY	2.52	23	ePn	08	13.90	-1.1
			eSn	08	44.30	
			e	08	57.20	
VBY	2.67	47	ePn	08	25.00	7.8X
			eSn	09	00.20	
LJU	2.74	32	e(Pn)	08	20.00	1.8
			e(Sn)	08	53.50	
RBL	2.83	16	P	08	20.00	0.6
FVI	2.88	4	P	08	18.60	-1.4
HVAR	2.95	99	iP	08	20.40	-0.7
KBA	3.41	10	e(Pn)	08	30.00	2.2
			e	09	07.00	
			e	09	25.00	

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

02d 21h

MAY 02, 1993 21h 15m 23.58± 0.21s
59.852 S ± 5.8km 26.302 W ± 5.0km
DEPTH = 33.0km (normal)
5.3mb (22 obs.) 5.3Msz (6 obs.)
SOUTH SANDWICH ISLANDS REGION (153)
Mw 5.5 (HRV).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 29S, 51C
Centroid Location:
Origin Time 21:15:28.0 0.3
Lat 60.33S 0.05 Lon 25.92W 0.09
Dep 35.3 3.5 Half-duration 1.2
Moment Tensor: Scale 10**17 Nm
Mrr=-0.82 0.04 Mtt= 0.56 0.06
Mff= 0.26 0.05 Mrt= 1.40 0.14
Mrf=-0.74 0.12 Mtf= 0.41 0.06
Principal Axes:
T Val= 1.43 Plg=33 Azm= 3
N 0.57 16 103
P -2.01 53 215
Best Double Couple:Mo=1.7*10**17
NP1:Strike= 49 Dip=19 Slip=-146
NP2: 286 79 -74

SNA	14.43	146	iPc	18 44.38	-2.6
	0.7s	116.00nm		5.5mb	
AIA	18.09	237	e(P)	19 38.00	4.5X
NVL	18.91	141	iPd	19 43.50	0.0
	1.4s	292.00nm		5.3mb	
		(S)		23 16.00	
SPA	30.32	180	iPd	21 34.30	0.4
	0.8s	162.50nm		5.9mb	
Z	22s	6.35um		5.2Msz	
		i		30 28.50	
MAW	36.86	140	iP	22 30.50	0.6
	0.9s	40.00nm		5.3mb	
RFA	37.05	293	ePc	22 31.30	-0.7
MDZ	38.80	295	e(P)	22 48.00	1.3
PEL	39.43	292	iPd	22 52.00	0.1
	1.0s	600.00nm		6.3mb	
RTCV	39.51	296	ePc	22 51.50	-1.1
CFA	39.59	297	e(P)	22 56.00	2.7
VAO	39.59	329	eP	22 53.40	0.0
CER	39.82	69	eP	22 56.00	0.9
	1.5s	120.00nm		5.4mb	
RTLL	39.93	296	iPc	22 55.50	-0.6
RTPR	39.94	300	ePc	22 55.20	-0.8
RTCB	39.95	296	iPd	22 56.70	0.4
RTBS	40.10	295	ePd	22 58.00	0.7
CYA	41.23	302	ePd	23 05.00	-1.7
SUR	41.35	70	eP	23 17.50	9.7X
	1.5s	140.00nm		5.5mb	
RTRS	41.36	296	ePc	23 08.80	1.1
PPD	41.72	324	eP	23 10.60	-0.2
		e		23 13.80	
GRM	43.37	76	e(P)	23 24.00	-0.2
FSA	43.39	303	eP	23 24.90	0.6
SLA	44.37	305	ePc	23 31.80	-0.7
FRS	45.68	72	eP	23 43.70	1.1
	0.8s	13.00nm		4.9mb	
BLF	46.63	73	eP	23 48.10	-2.3
	0.1s	65.00nm		6.6mb	X
YJA	46.65	306	ePc	23 50.70	-0.3
BAO	46.91	331	eP	23 52.00	-0.7
		e		23 53.40	
WIN	48.06	59	eP	24 04.50	2.7
	1.5s	50.00nm		5.3mb	
PRY	49.07	72	eP	24 08.00	-1.4
	1.0s	40.00nm		5.4mb	
KSR	49.69	71	iPc	24 15.00	0.8
	0.5s	16.00nm		5.3mb	
CSY	50.16	159	iPc	24 17.90	0.8
	0.1s	11.00nm		5.8mb	
SLR	50.46	72	iPc	24 21.00	0.9
	0.8s	13.00nm		5.0mb	
Z	18s	11.50um		5.9Msz	
SIV	50.57	315	P	24 33.60	12.8X
BFT	51.35	74	eP	24 26.50	-0.5
CNCB	52.47	307	P	24 35.80	0.0
LPB	52.77	307	P	24 37.80	-0.1
Z	20s	2.13um		5.2Msz	
		LR		41 26.00	
ZOBO	53.01	307	P	24 38.80	-1.1
	0.9s	56.66nm		5.5mb	
		LR		38 00.00	
DRV	53.38	173	eP	25 00.00	18.6X
			PP	26 54.00	
			S	32 30.00	
ARE	54.24	303	eP	24 49.00	0.4
BUL	55.38	69	iPc	24 56.00	-0.7
	0.8s	23.88nm		5.3mb	
			ipP	25 04.50	28kmX
CIR	56.05	73	iPd	24 54.00	-7.4X
			i	25 02.60	
LSZ	59.40	66	iPc	25 25.00	-0.2
LIC	68.00	23	P	26 21.62	0.3
	0.7s	17.50nm		5.2mb	
Z	20s	0.95um		5.0Msz	
KIC	68.19	23	P	26 23.28	0.8
	0.9s	17.50nm		5.1mb	
TIC	68.41	23	P	26 24.74	0.8
KDS	73.06	14	eP	26 53.00	1.1
SDV	77.04	315	eP	27 13.70	-1.2
TAU	77.46	175	iPd	27 16.80	0.1
TOO	82.69	173	iPc	27 45.30	0.5
	0.8s	65.00nm		5.8mb	
ADE	84.72	168	iPd	27 56.20	1.1
CAN	85.10	176	iPd	27 57.50	0.5
CNB	85.11	176	eP	27 58.00	0.8
	0.9s	11.00nm		5.1mb	
BWA	85.97	176	iPd	28 01.60	0.2
FORT	87.25	158	eP	28 08.50	0.8
STK	88.06	170	eP	28 11.90	0.4
	0.8s	11.10nm		5.2mb	
MEEK	89.13	149	iPc	28 16.80	0.1
ARMA	90.05	178	eP	28 21.40	0.3
	1.1s	19.00nm		5.3mb	
TIO	91.80	16	iP	28 34.00	5.1X
WRA	98.93	162	P	29 01.90	0.1
	0.8s	1.90nm		4.7mb	
CHG	123.56	112	ePKP	34 19.10	0.3
HFS	123.63	23	ePKP	34 15.70	-2.0
	0.4s	1.30nm			
Z	19s	0.83um		5.4Msz	
			LR	19 13.00	
NB2	124.00	21	PKP	34 17.60	-0.9
	0.8s	3.70nm			
DMN	124.16	93	PKP	34 19.60	-0.5
UPP	124.18	25	iPKP	34 18.40	-0.3
GKN	124.24	93	PKP	34 19.00	-1.1
	0.7s	19.00nm			
PKI	124.28	94	PKP	34 19.60	-0.8
	1.0s	26.00nm			
KKN	124.39	93	PKP	34 19.60	-0.9
	0.9s	20.00nm			
GUN	124.79	94	PKP	34 20.40	-1.0
	1.0s	50.00nm			
NUR	126.36	29	iPKP	34 24.10	1.1
	0.5s	2.50nm			
FRB	127.37	338	ePKP	34 26.00	1.2
	0.6s	5.00nm			
KAF	128.15	28	iPKP	34 25.60	-0.7
	0.5s	6.30nm			
PIP	132.19	136	ePKPd	34 36.00	0.7
SDF	132.70	25	ePKP	34 35.00	0.2
DAG	136.45	3	ePKP	34 38.30	-3.4X
	0.8s	4.48nm			
YKA	139.26	315	ePKP	34 43.50	-3.8X
	0.6s	4.40nm			
LZH	140.34	104	ePKP	34 47.50	-2.8X
			pP	35 04.50	
SSE	143.98	128	PKPc	34 55.00	-1.5
	0.8s	9.00nm			
MBC	147.63	333	ePKP	35 00.50	-0.8
	0.7s	6.00nm			
INK	148.97	316	ePKPc	35 07.50	3.9X
	0.9s	9.00nm			
BJI	149.37	113	ePKP	35 06.00	0.9
Z	20s	0.54um		5.3Msz	
			ePP	38 44.00	
			eSS	57 56.00	
TKSJ	151.08	145	PKP	35 14.90	7.1X
WKYJ	151.74	147	PKP	35 16.70	7.8X
IRK	152.00	84	ePKP	35 14.20	5.5X
			e	35 24.50	
YONJ	152.03	143	PKP	35 16.50	7.3X
KDC	152.68	289	ePKP	35 19.60	10.2X
PMR	152.75	299	ePKP	35 15.70	6.3X
FBA	153.29	306	ePKP	35 16.70	6.6X
MAT	154.62	150	ePKP	35 22.00	9.2X
IMA	155.95	307	ePKP	35 24.00	10.2X
	0.9s	3.80nm			
TTA	156.23	299	ePKP	35 25.10	10.9X

S.D. = 1.0 on 70 of 90 obs.

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* MAY 02, 1993 21h 34m 17.90± 0.72s
14.453 N ±10.5km 39.770 E ±18.1km
DEPTH = 33.0km (normal)
4.2mb (3 obs.) 4.6Msz (2 obs.)
ETHIOPIA (558)

ARO	4.18	134	eP+	35 20.00	-1.0
			S	36 20.00	
AAE	5.48	190	ePn	35 40.50	0.8
MAIO	28.01	35	eP	40 10.00	1.9
SPC	38.17	339	eP	41 37.00	0.8
ZST	38.52	336	eP	41 38.70	-0.2
GEC2	40.44	333	P	41 55.30	0.4
	0.7s	1.72nm		3.9mb	
KHC	40.71	334	eP	41 57.60	0.5
Z	22s	1.00um		4.6Msz	
N	22s	0.90um			
E	22s	0.50um			
MOX	42.69	334	e(P)	42 13.40	0.2
Z	21s	0.90um		4.6Msz	
APO	49.71	344	eP	43 06.60	-2.1
	0.5s	1.40nm		4.3mb	
NB2	50.89	343	P	43 16.20	-1.5
	1.1s	3.80nm		4.3mb	
S.D. = 1.4 on 10 of 10 obs.					

MAY 02, 1993 21h 48m 41.93± 0.75s
39.105 N ± 5.4km 27.248 E ± 8.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 3.2 (ISK).

IZM	0.71	179	iPg	48 56.90	1.0
			iSg	49 07.00	
EZN	1.01	316	iPn	49 01.30	0.2
EDC	1.33	21	iPn	49 06.00	-0.4
BNT	1.35	22	ePn	49 07.00	0.2
KCT	1.43	36	iPn	49 07.00	-0.9
CIN	1.64	156	ePn	49 09.00	-1.9
			iSg	49 32.00	
KHL	1.94	113	ePn	49 16.00	0.6
YLV	2.19	48	ePn	49 19.50	0.5
ALT	2.23	90	ePn	49 20.00	0.5
HRT	2.53	47	ePn	49 24.00	0.3
S.D. = 1.0 on 10 of 10 obs.					

MAY 02, 1993 21h 54m 17.63± 1.19s
11.300 N ± 9.1km 86.880 W ± 7.9km
DEPTH = 57.4 ± 10.0 km
4.3mb (9 obs.)
NEAR COAST OF NICARAGUA (74)
MD 4.1 (APY).

SSN	1.01	90	eP	54 34.82	-1.0
PYN	1.08	353	eP	54 36.59	-0.3
			eS	54 55.03	
PYT	1.46	33	ePc	54 42.00	-0.1
III	14.05	302	(P)	57 35.50	-0.1
MRX	16.12	303	(P)	58 04.00	2.0
TOV	16.87	94	ePc	58 13.00	1.5
GOGA	22.23	8	eP	59 11.82	1.1
	0.8s	14.23nm		4.5mb	
MYNC	23.80	6	ePc	59 26.79	0.7
	0.7s	6.94nm		4.3mb	
LTX	23.81	321	ePd	59 25.76	-0.6
			e	59 31.18	
MIAR	23.93	346	eP	59 26.31	-1.0
	0.8s	12.81nm		4.5mb	
			e	59 33.70	
GBTN	24.38	5	eP	59 31.89	0.2
CEH	25.48	15	eP	59 42.34	0.3
	0.6s	6.51nm		4.3mb	
MEO	25.69	337	iPd	59 43.40	-0.7
FNO	25.69	340	iPd	59 43.20	-0.9
OCO	25.96	340	iPc	59 47.50	0.9
ACO	27.60	338	e(P)	59 59.50	-2.1
ALQ	29.51	326	eP	00 19.09	0.0
	0.8s	2.60nm		4.0mb	
ZOBO	33.09	146	eP	00 53.00	2.1
PV08	33.39	328	eP	00 53.07	-0.1
PV09	33.59	328	eP	00 54.09	-0.8
SRU	34.78	327	eP	01 04.02	-0.9
RSNY	34.79	16	iPc	01 03.40	-1.4
	0.9s	14.76nm		4.9mb	
PLM	35.15	313	eP	01 09.71	1.6

MSU	35.27	325	eP	01	09.24	0.1
EMUT	35.44	327	eP	01	10.72	0.1
GAC	35.64	14	eP	01	11.50	-0.4
EEO	35.84	9	eP	01	14.50	0.9
DUG	36.79	326	(P)	01	22.93	1.1
	1.0s		4.64nm			4.4mb
BW06	37.05	332	(P)	01	22.43	-1.7
	1.2s		5.46nm			4.4mb
HVU	37.89	328	(P)	01	31.67	0.6
CBM	38.90	21	(P)	01	39.71	0.5
LMN	39.24	25	eP	01	44.50	2.4
ULM	39.54	351	eP	01	45.00	0.5
LCCM	40.47	333	eP	01	52.20	-0.3
JAO	43.32	10	eP	02	15.50	0.1
BAO	46.89	124	eP	02	42.80	-1.7
			e	02	49.50	
FCC	47.68	355	eP	02	51.50	1.5
PPD	48.11	134	eP	02	52.60	-1.3
FRB	53.95	10	eP	03	34.00	-3.4X
YKA	54.86	345	eP	03	39.90	-4.3X
	0.9s		2.10nm			4.2mb
INK	64.46	343	eP	04	49.50	-0.5
MBC	67.23	352	eP	05	05.00	-2.6
WRA	139.47	253	PKP	13	40.70	-0.6
	0.8s		1.10nm			
CHG	149.53	349	ePKP	14	03.00	4.8X
GBA	150.77	33	PKP	14	01.00	0.9

S.D. = 1.2 on 42 of 45 obs.

MAY 02, 1993 22h 01m 10.94± 0.68s
39.103 N ± 5.0km 27.313 E ± 8.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 3.1 (ISK).

IZM	0.71	183	iPg	01	24.00	-0.9
			eSg	01	36.50	
EZN	1.05	314	iPn	01	31.30	0.6
EDC	1.31	19	iPn	01	35.00	-0.2
BNT	1.34	20	ePn	01	35.00	-0.6
KCT	1.40	35	iPn	01	36.90	0.4
CIN	1.62	158	ePn	01	40.00	0.4
			iSg	02	02.00	
KHL	1.90	114	ePn	01	44.50	0.8
YLV	2.16	47	ePn	01	47.00	-0.5

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

MAY 02, 1993 22h 20m 10.19± 0.68s
43.436 N ± 3.4km 126.878 W ± 5.6km
DEPTH = 10.0km (geophysicist)
3.2mb (1 obs.)
OFF COAST OF OREGON (30)

RNO	2.33	77	Pc	20	48.40	-0.8
MPOR	2.63	65	Pc	20	52.92	-0.6
DBO	2.67	96	Pc	20	52.78	-1.4
HSO	2.76	87	Pc	20	54.31	-1.0
TKO	3.12	51	Pc	21	00.19	-0.3
KMOR	3.27	47	P	21	02.12	-0.5
SSOR	3.48	64	Pc	21	06.02	0.4
NLO	3.60	41	P	21	07.25	0.0
WPO	3.62	52	P	21	08.15	0.7
PGO	3.76	56	P	21	10.17	0.7
TCO	3.88	78	P	21	11.22	-0.2
BPO	3.93	70	P	21	12.48	0.4
BMW	3.99	39	eP	21	12.07	-0.7
RVW	4.00	46	P	21	13.15	0.3
ONR	4.08	31	P	21	13.85	-0.1
TDH	4.09	61	Pc	21	14.96	0.7
LVP	4.13	49	P	21	15.30	0.5
MTMW	4.21	50	P	21	16.29	0.3
VLL	4.24	60	Pc	21	17.10	0.7
FL2	4.24	48	P	21	16.95	0.5
SHW	4.30	49	ePc	21	18.05	0.8
VFP	4.31	62	P	21	17.63	0.1
CZM	4.32	44	P	21	16.56	-0.8
ERK	4.32	47	P	21	17.72	0.2
HSR	4.32	49	P	21	18.39	0.8
JLK	4.32	50	P	21	17.94	0.5
STD	4.34	48	P	21	18.31	0.5
YEL	4.34	49	P	21	18.54	0.7
ESD	4.35	49	P	21	18.75	0.7
CDFW	4.36	50	P	21	18.38	0.4
SOSW	4.38	49	P	21	19.12	0.7
TDL	4.41	47	P	21	19.29	0.5
CPW	4.42	35	P	21	18.45	-0.3
KOSW	4.50	46	P	21	20.60	0.7
CROR	4.51	68	P	21	19.58	-0.6
GULW	4.51	55	P	21	20.59	0.4
OSR	4.56	26	P	21	20.42	-0.4
LMW	4.58	44	P	21	21.57	0.4
SMW	4.61	31	P	21	20.89	-0.7
ASR	4.64	52	P	21	22.46	0.4
OOW	4.70	23	P	21	22.55	-0.2
MEW	4.80	37	P	21	24.88	0.6
VGB	4.84	62	ePc	21	24.64	-0.1
GHW	4.85	40	P	21	25.10	0.1
GLK	4.87	48	P	21	25.98	0.6
LON	4.88	46	eP	21	25.84	0.4
REMR	4.91	45	P	21	26.45	0.5
OSD	4.92	26	P	21	25.69	-0.4
RVC	4.93	43	P	21	26.61	0.5
WPW	4.99	47	Pc	21	27.46	0.5
HDW	5.00	31	P	21	26.55	-0.5
GL2	5.00	58	P	21	27.25	0.1
RCS	5.00	45	P	21	27.73	0.3
GMW	5.02	34	P	21	26.62	-0.7
GSM	5.20	42	P	21	30.17	0.2
STW	5.22	24	P	21	29.96	-0.2
NAC	5.41	50	P	21	33.24	0.4
JBO	5.43	66	P	21	32.73	-0.5
ORV	5.60	132	eP	21	35.50	0.0
MXC	5.63	54	P	21	35.98	0.1
PATW	5.63	62	P	21	35.80	-0.2
HTW	5.65	38	P	21	36.04	-0.2
EBG	5.65	50	P	21	36.71	0.4
BRVW	5.76	56	P	21	37.79	0.0
TBM	5.79	48	P	21	38.75	0.5
PRW	5.82	59	P	21	38.33	-0.3
JCW	5.88	34	P	21	39.24	-0.2
MCW	5.95	27	eP	21	39.88	-0.6
RSW	5.96	58	P	21	40.40	-0.2
MDW	5.96	55	P	21	40.48	-0.1
CMW	5.99	32	P	21	40.86	-0.2
GBL	6.13	56	P	21	43.02	0.0
WAH2	6.15	55	P	21	43.30	0.1
WIW	6.16	58	P	21	43.30	-0.1
MJ2	6.17	57	P	21	43.51	-0.1
ETW	6.21	46	P	21	44.36	0.2
LOCW	6.21	56	P	21	44.14	0.1
CRF	6.29	55	P	21	45.09	-0.1
MBW	6.37	31	P	21	46.08	-0.4
ET3	6.45	58	P	21	47.15	-0.3
EPH	6.45	50	P	21	47.54	0.0
WTV	6.46	46	P	21	47.56	-0.2
LNOR	6.59	65	P	21	47.95	-1.7
DHW2	6.74	45	P	21	51.00	-0.7
SAW	6.76	48	P	21	51.54	-0.4
COE	7.34	145	(P)	22	01.13	1.1
DPW	7.52	51	eP	22	01.78	-0.8
NEW	8.35	51	eP	22	12.74	-1.4
YKA	20.40	16	eP	24	49.40	-0.2
	0.6s		0.70nm			3.2mb
ULM	22.16	61	eP	25	11.50	3.9X
MBC	33.07	3	eP	26	47.50	0.0

S.D. = 0.5 on 90 of 91 obs.

MAY 02, 1993 22h 24m 21.92± 0.61s
31.684 S ± 6.8km 67.786 W ± 5.1km
DEPTH = 10.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

CFA	0.39	281	iPd	24	30.00	0.0
			(S)	24	42.00	
RTLL	0.68	301	iPc	24	35.50	0.0
			S	24	46.50	
ZON	0.77	280	eP	24	36.60	-0.5
			eS	24	47.60	
RTCB	0.89	283	iPd	24	38.80	-0.2
			S	24	50.50	
RTBS	1.42	270	ePd	24	47.50	-0.3
			S	25	06.50	
MDZ	1.50	217	e(P)	24	50.70	1.8
RTPR	1.76	39	e(P)c	24	53.50	0.9
MRA	1.91	113	ePc	24	54.10	-0.6
			i	24	55.90	
RFA	3.13	190	eP	25	11.40	-0.9
			S	25	58.50	
CYA	3.66	29	eP	25	19.60	-0.3
			(S)	25	57.30	

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

? MAY 03, 1993 00h 02m 27.05± 1.60s
4.480 S ±21.4km 149.520 E ±29.2km
DEPTH = 565 3 ± 20.2 km
4.5mb (4 obs)
BISMARCK SEA (203)

PMG	5.43	205	eP	04	02.00	0.0
WB2	21.32	223	eP	06	36.00	0.3
	0.2s		5.80nm			4.9mb
BRS	22.99	173	iPd	06	51.00	0.1
	1 0s		10.00nm			4.4mb
ASPA	24.31	217	eP	07	02.30	-0.4
	0.6s		7.90nm			4.5mb
INK	89.34	21	eP	14	25.00	0.9
YKA	96.67	28	eP	14	56.70	-1.0
	0.7s		0.30nm			3.7mb
GEC2	122.04	327	PKP	20	19.30	0.1
	0.6s		0.60nm			

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

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* MAY 03, 1993 01h 57m 43.96± 0.35s
59.850 S ± 9.9km 26.198 W ±11.2km
DEPTH = 33.0km (normal)
4.8mb (8 obs.)
SOUTH SANDWICH ISLANDS REGION (153)

SNA	14.40	147	iPd	01	04.20	-2.8
	0.7s		53.42nm			5.2mb
NVL	18.87	141	ePc	02	04.00	0.5
	0.8s		20.00nm			4.4mb
SPA	30.32	180	iPc	03	55.80	1.5
	0.9s		17.27nm			4.9mb
			i	04	41.00	
PEL	39.48	292	iPd	05	13.00	0.3
	0.6s		326.67nm			6.3mb X
VAO	39.62	329	eP	05	15.10	1.1
PPD	41.75	324	eP	05	31.40	0.0
BAO	46.94	331	iPc	06	12.50	-0.8
			i	06	15.10	
CCH	51.25	308	eP	06	44.00	-2.7
CNCB	52.51	306	P	06	57.10	0.6
LPB	52.81	306	P	06	59.00	0.4
ZOBO	53.05	307	P	07	00.20	-0.4
			LR	23	38.00	
ARE	54.28	303	eP	07	09.00	-0.3
BUL	55.33	69	iPd	07	15.17	-1.6
	0.9s		7.56nm			4.7mb
LSZ	59.35	66	iPc	07	46.20	1.0
LIC	67.97	23	P	08	42.80	1.2
KIC	68.16	23	P	08	43.00	0.2
SDV	77.07	315	iPc	09	34.80	-0.7
TOO	82.69	173	eP	10	06.20	1.0
	0.7s		14.00nm			5.1mb
STK	88.05	170	eP	10	32.70	0.8
	0.8s		2.90nm			4.6mb
ASPA	95.20	162	eP	11	03.30	-1.9
	0.8s		5.40nm			5.0mb
WRA	98.92	162	P	11	23.50	1.4
	0.9s		0.80nm			4.2mb
ULM	123.32	314	ePKP	16	40.50	2.8X
HFS	123.61	23	ePKP	16	36.60	-1.4
	0.4s		0.70nm			
NB2	123.98	21	PKP	16	39.70	0.9
	0.7s		1.00nm			
DMN	124.10	93	PKP	16	41.20	0.8
GKN	124.19	92	PKP	16	40.40	0.0
PKI	124.22	93	PKP	16	41.20	0.5
KKN	124.34	93	PKP	16	41.40	0.6
GUN	124.74	94	PKP	16	41.80	0.1
BGMT	125.80	300	ePKP	16	43.80	0.7
FRB	127.39	338	ePKP	16	45.00	-0.2
KAF	128.12	28	iPKP	16	46.80	0.1
	0.8s		5.00nm			
YKA	139.29	315	ePKP	17	02.00	-5.7X
	0.7s		2.70nm			
MBC	147.65	333	ePKP	17	20.50	-1.2
	0.8s		3.00nm			
INK	149.01	316	ePKPc	17	28.70	4.7X
	1.0s		4.00nm			
BJI	149.33	113	ePKP	17	31.00	5.6X
	1.5s		29.00nm			

S.D. = 1.2 on 32 of 36 obs.

MAY 03, 1993 02h 02m 59.59± 0.57s
42.224 N ± 6.4km 21.361 E ± 5.1km
DEPTH = 11.4 ± 2.7 km
NORTHWESTERN BALKAN REGION (383)
ML 3.2 (TTG), 3.0 (THE), 2.8 (TIR), 2.7 (SKO). Felt (III) at

03d 02h

Skopje, Yugoslovia.

SKO	0.26	167	iPgc	03 05.20	0.0
	0.3s	772.00nm			
			i	03 05.50	
			iSg	03 09.10	
			i	03 09.80	
			i	03 10.10	
			i	03 10.80	
			i	03 11.50	
PHP	0.87	232	iPgd	03 14.20	-2.0
			iSg	03 28.20	
PVY	1.09	290	iPgd	03 19.06	-1.0
			iSg	03 33.37	
OHR	1.19	201	iPg	03 21.80	0.1
	0.6s	172.00nm			
			i	03 38.40	
			iSg	03 39.50	
			Lg	04 55.00	
IVA	1.26	301	iPgd	03 21.79	-1.1
			iSg	03 38.23	
VAY	1.28	135	iPn	03 22.70	-0.4
	0.6s	111.00nm			
			i	03 42.30	
			iSn	03 45.60	
			Lg	04 57.70	
LACI	1.37	245	iPnd	03 25.60	1.2
			iSn	03 47.50	
SDA	1.40	264	iPnc	03 21.00	-3.9X
			iSn	03 41.10	
TIR	1.42	232	iPnc	03 27.20	2.0
			iSn	03 50.00	
FNA	1.44	180	ePb	03 26.84	1.3
			eSb	03 45.08	
GRG	1.49	148	ePb	03 26.93	0.7
			iSb	03 44.76	
KNT	1.57	132	iPb	03 27.70	0.4
			eSb	03 46.84	
TTG	1.57	278	iPgc	03 28.20	0.8
			iSg	03 50.12	
ULC	1.59	261	iPgd	03 29.41	1.7
			iSg	03 51.88	
PLE	1.82	308	iPnd	03 32.09	1.0
			iSn	03 56.31	
NKY	1.84	289	iPnd	03 32.58	1.1
			iSn	03 57.29	
BDV	1.88	273	iPnc	03 33.69	1.8
			iSn	03 58.94	
THE	2.00	142	ePb	03 33.88	0.4
SRS	2.00	123	ePb	03 33.44	-0.2
			eSb	03 57.56	
SOH	2.05	132	ePb	03 34.80	0.4
HCY	2.13	277	iPnc	03 37.00	1.4
			iSn	04 05.12	
TPE	2.18	208	ePn	03 45.50	9.3X
BRY	2.19	289	iPnc	03 37.67	1.2
			iSn	04 05.72	
LIT	2.29	158	ePn	03 37.84	0.1
			eSn	04 05.16	
PAIG	2.89	142	ePn	03 45.81	-0.4
AGG	3.28	167	ePn	03 51.20	-0.7
GZR	3.33	17	ePd	04 07.00	14.4X
HVAR	3.74	286	eP	04 00.30	1.8
SGO	4.85	252	P	04 13.70	-0.4
MGR	4.85	246	P	04 14.40	0.2
VBY	5.50	309	e(Pn)	04 23.30	0.0
SDI	5.65	267	P	04 25.70	0.2
AQU	5.90	274	P	04 28.00	-1.1
ARV	6.32	284	P	04 33.20	-1.7
MNS	6.44	274	P	04 35.70	-0.9
ASS	6.47	280	P	04 36.70	-0.4

S.D. = 1.1 on 33 of 36 obs.

& MAY 03, 1993 02h 39m 28.48s
64.970 N 148.768 W
DEPTH = 15.2km
CENTRAL ALASKA (1)
<AEIC>. ML 2.7 (AEIC), 3.2 (PMR).

MDM	0.23	93	iP	39 33.49	-0.3
			iS	39 37.44	
NEA	0.42	199	iP	39 36.88	-0.1
			eS	39 43.43	
FBA	0.42	99	iPc	39 36.50	-0.6
CCB	0.52	128	iP	39 38.87	0.0
			iS	39 46.56	
WRH	0.58	150	iP	39 39.98	0.2
GLM	0.59	88	iP	39 39.49	-0.5
			eS	39 47.56	
MLY	0.84	275	eP	39 43.29	-1.0
			S	39 54.21	
HDA	0.96	125	eP	39 45.73	-0.6
			eS	39 59.71	
MCK	1.25	183	eP	39 51.45	0.3
			eS	40 07.30	
PRP	1.47	67	eP	39 55.17	0.6
			eS	40 13.44	
RND	1.57	181	eP	39 55.16	-0.7
			eS	40 18.03	
TRF	1.66	204	eP	39 57.93	0.6
			eS	40 20.56	
FYU	2.17	41	eP	40 06.13	1.7
			S	40 33.74	
IMA	2.32	301	eP	40 09.38	2.6
			eS	40 37.81	
PAX	2.48	143	eP	40 08.07	-0.9
SDG	2.84	148	eP	40 13.23	-0 8
GHO	3.21	181	eP	40 17.96	-1.4
SCM	3.22	168	eP	40 20.23	0.8
SKT	3.25	204	eP	40 18.94	-0.9
PWA	3.37	189	P	40 20.30	-1.2
KLU	3.72	158	eP	40 27.09	0.5
PMS	3.76	186	P	40 27.30	0.2
TTA	3.79	241	P	40 26.20	-1.4

23 obs. associated

MAY 03, 1993 02h 39m 46.62± 0.90s
37.753 N ± 8.7km 21.373 E ± 5.6km
DEPTH = 28.9 ± 5.6 km
3.7mb (2 obs.)
SOUTHERN GREECE (368)
ML 4.0 (THE), 3.6 (ATH).

VLS	0.75	305	ePg	40 00.50	-0.6
AGG	1.47	30	ePb	40 10.84	-0.6
			eSb	40 33.00	
VLI	1 62	129	ePb	40 13.00	-0.6
ATH	1.87	83	ePb	40 17.50	0.4
KEK	2.31	328	ePn	40 24.50	1.0
LIT	2.50	20	ePn	40 27.28	1.0
			eSn	40 59.00	
KZN	2.57	7	ePn	40 28.00	0.8
TPE	2.75	338	iPnd	40 36.00	6 3X
PAIG	2.82	39	iPn	40 31.05	0.4
FNA	3.03	0	ePn	40 33.76	0.0
			eSn	41 11.48	
THE	3.13	23	ePn	40 35.72	0.6
GRG	3.30	14	ePn	40 37.24	-0.3
OHR	3.38	353	iPn	40 39.10	0.3
	1.3s	141.00nm			
			i	40 48.20	
			i	41 38.20	
			i	41 44.00	
			Lg	41 57.80	
KNT	3.60	19	ePn	40 43.00	1.1
VAY	3.68	14	iPn	40 43.30	0.4
LCI	3.71	315	P	40 41.80	-1.4
SRS	3.77	26	ePn	40 44.72	0.5
TIR	3.77	342	ePn	40 43.70	-0.5
PHP	3.99	350	ePn	40 48.20	0.8
LACI	4.09	342	ePn	40 47.50	-1.1
ROI	4.18	297	P	40 48.30	-1.7
SKO	4.21	1	ePn	40 50.10	-0.4
	1.0s	52.00nm			
			iPg	41 04.10	
			iSg	42 05.10	
			Lg	42 25.00	
CZI	4.36	291	P	40 54.10	1.5
TDS	4.37	297	P	40 57.30	4 5X
CSI	4.46	299	P	40 56.60	2.6
SDA	4.53	342	ePn	40 54.00	-1.0
MGR	5.12	299	P	41 05.20	1.8
SGO	5.48	303	P	41 09 00	0 6
VBY	8.99	331	e(Pn)	41 55.50	-2.0
CEY	9.51	329	e(Pn)	42 05.00	0.3
			e(Sn)	43 34.00	
HFS	22.93	350	eP	44 46.30	-2 8
	0.4s	1 20nm		3 8mb	
NB2	24.17	348	P	44 59.60	-1 5
	0.8s	1 90nm		3.7mb	

S.D. = 1.3 on 30 of 32 obs.

MAY 03, 1993 02h 43m 57.92± 0.99s
38.787 S ± 6.9km 177.962 E ±10.3km
DEPTH = 62.3 ± 12.7 km
NORTH ISLAND, NEW ZEALAND (159)

NOZ	0.18	19	P	44 07.70	0.1
MAHZ	0.41	189	P	44 12.80	3.6X
PAHZ	0.71	264	P	44 13.00	0.4
MOH	0.72	241	P	44 14.60	1.9
PUZ	0.75	18	P	44 13.20	0.2
			eS	44 23.20	
URZ	0.85	308	Pc	44 12.50	-1.7
			S	44 21.90	
WHH	1.15	265	P	44 19.20	0.9
HBZ	1.22	13	eP	44 19.20	0.1
TAZ	1.27	295	P	44 19.70	-0.1
PATZ	1.40	286	P	44 21.30	-0.3
WAHZ	1.54	233	eP	44 25.40	1.8
NGZ	1.88	257	P	44 28.90	0.5
CNZ	1.93	257	P	44 29.80	0.8
WLZ	2.07	295	eP	44 30.30	-0.6
PGZ	2.25	215	P	44 34.10	0.8
MOZ	2.49	276	eP	44 37.00	0.2
BSZ	2.56	246	P	44 39.60	1.9
MNG	2.65	226	eP	44 38.50	-0.5
			eS	45 09.30	
MTW	3.03	218	eP	44 43.90	-0.6
CAW	3.21	223	P	44 46.10	-0.9
MRW	3.50	225	eP	44 49.70	-1.3
			eS	45 30.50	
ORZ	4.65	242	P	45 05.00	-2.2
			eS	45 56.90	
LTZ	5.88	225	eP	45 23.20	-1.3
			eS	46 24.30	
ASPA	40.19	279	eP	51 31.50	1.7

S.D. = 1.2 on 23 of 24 obs.

• MAY 03, 1993 02h 48m 47.49± 1.47s
10.796 S ± 9.2km 161.932 E ± 9.2km
DEPTH = 42.7 ± 14.9 km
4.4mb (10 obs.)
SOLOMON ISLANDS (193)

HNR	2.38	305	eP	49 25.00	0.1
BKM	9.17	139	iPc	51 00.00	-0.3
PVC	9.27	139	iPd	51 00.70	-0.9
DZM	12.02	159	iPd	51 39.10	0.0
			iS	53 48.70	
CTA	17.70	237	iPc	52 54.00	1.4
	1.0s	40.00nm		4.5mb	
BRS	18.62	206	iPc	53 04.50	0.6
ARMA	21.75	205	eP	53 38.60	1.2
	0.9s	11.00nm		4.3mb	
WB2	28.07	248	eP	54 35.50	-1.8
	1.1s	5.80nm		4.2mb	
STK	28.17	219	eP	54 44.90	6.9X
	1.6s	1.90nm		3.5mb	
ASPA	29.60	241	eP	54 48.90	-2.2
	0.6s	3.40nm		4.2mb	
	Z 23s	0.50um		4.1MszX	
TOO	30.48	206	eP	55 00.50	1.8
	0.8s	22.00nm		5.0mb	
WARB	36.65	240	eP	55 51.00	-1.1
SVW	79.08	20	ePc	00 49.91	1.1
	0.8s	25.62nm		5.2mb	
		e		00 59.67	
TTA	80.31	18	eP	00 56.50	1.1
GUN	82.94	300	P	01 00.00	-10.2X
IMA	83.31	17	eP	01 11.44	0.4
	1.1s	7.41nm		4.7mb	
		e		01 20.89	
FBA	84.29	19	eP	01 15.34	-0.5
	0.6s	3.27nm		4.6mb	
		e		01 25.42	
TKO	87.03	43	P	01 46.73	16.8X
KMOR	87.09	43	P	01 48.38	18.2X
NLO	87.26	42	P	01 53.24	22.3X
SSOR	87.54	44	P	01 53.61	21.2X
YKA	96.48	28	eP	02 12.20	-1.1
	0.7s	0.90nm		4.4mb	
DEV	130.65	323	ePdiff	05 00.00	14.0X

S.D. = 1.3 on 16 of 23 obs.

? MAY 03, 1993 03h 00m 33.03± 5.81s
42.836 N ±14.0km 129.192 W ±48.9km
DEPTH = 10.0km (geophysicist)
OFF COAST OF OREGON (30)

PGO	5.52	59	P	01	57.48	0.3
BMW	5.60	47	P	01	57.94	-0.5
RVW	5.68	52	P	01	59.17	-0.3
LVP	5.83	54	P	02	01.76	0.1
TDH	5.87	63	P	02	02.45	0.2
MTMW	5.93	55	Pd	02	03.00	-0.1
FL2	5.93	53	P	02	03.31	0.2
ERK	6.00	52	P	02	04.18	0.1
SHW	6.00	54	eP	02	03.10	-1.0
VLL	6.01	62	P	02	04.33	0.1
JLK	6.02	54	Pd	02	04.49	0.1
STD	6.03	53	P	02	04.52	0.0
YEL	6.04	54	P	02	04.98	0.3
CDFW	6.07	55	P	02	04.94	-0.1
SOSW	6.08	54	P	02	05.92	0.7
VFP	6.09	63	P	02	05.81	0.3
TDL	6.10	52	P	02	05.31	-0.1
KOSW	6.17	52	P	02	06.61	0.2
ASR	6.36	56	P	02	09.14	-0.1
LON	6.55	51	eP	02	11.54	-0.3
GLK	6.56	53	P	02	12.31	0.2
RVC	6.57	49	P	02	12.54	0.4
REMR	6.57	50	P	02	12.37	0.1
WPW	6.67	52	P	02	13.35	-0.2
GL2	6.76	60	Pd	02	14.28	-0.5
GSM	6.82	48	P	02	16.03	0.4
RSW	7.72	59	P	02	27.69	-0.5
MSU	13.62	103	(P)	03	48.79	0.0

S.D. = 0.4 on 28 of 28 obs.

& MAY 03, 1993 03h 14m 22.01s
60 008 N 153.440 W
DEPTH = 132.1km
SOUTHERN ALASKA (2)
<AEIC>.

INW	0.17	69	ePc	14	39.43	0.6
			eS	14	53.50	
INE	0.20	74	ePc	14	39.56	0.6
			eS	14	53.83	
OPT	0.37	163	ePc	14	40.19	0 8
			eS	14	54.10	
PDB	0.44	240	iPc	14	40.20	-1.0
			eS	14	54.49	
RS1	0.57	37	iPc	14	41.31	-0.9
RS2	0.57	36	iPc	14	41.32	-0.9
RSO	0.57	37	iPc	14	41.29	-0.9
RDW	0.57	33	iPc	14	41.32	-0.9
NCT	0.61	24	iPc	14	41.55	-0.8
AUL	0.63	180	ePd	14	41.51	-0.8
AUW	0.64	181	ePd	14	41.61	-0.8
AUH	0.65	180	ePd	14	41.69	-0.9
AUE	0.65	177	iPd	14	41.54	-0.9
			eS	14	57.24	
AUI	0.68	179	ePd	14	41.67	-1.0
			eS	14	56.91	
DFR	0.70	32	eP	14	42.11	-0.8
MCNL	0.94	209	iPd	14	43.73	-1.1
			eS	15	01.37	
CDD	1.09	186	iPd	14	44.98	-1.3
			eS	15	02.52	
CNPM	1.22	112	iPc	14	46.19	-1.4
			eS	15	04.92	
BRLK	1 31	100	eP	14	47.64	-0.9
			eS	15	06.30	
CKL	1.31	24	iPc	14	48.08	-0.6
			eS	15	08.18	
NKA	1.32	55	ePc	14	49.15	0.6
CKT	1.34	26	iPc	14	48.24	-0.7
BGL	1.36	22	iPc	14	48.81	-0.4
SPU	1.36	30	iPc	14	48.30	-0.8
CKN	1.37	26	ePc	14	48.71	-0.5
CP2	1.39	25	iPc	14	48.99	-0.6
CPAM	1.41	27	iPc	14	49.18	-0.5
CRP	1 41	26	iPc	14	48.71	-1.1
			eS	15	10.22	
SYI	1.50	159	eP	14	49.21	-1.4
			eS	15	10.37	
SVW	1.54	317	eP	14	49.83	-1.3
SLKM	1.68	71	eP	14	51.16	-1.6
SUA	1.97	41	iPc	14	55.41	-0.9
SEW	2.00	86	eP	14	54.46	-2.1
MPA	2.09	75	ePd	14	55.98	-1.6
SKT	2.19	24	ePc	14	57.97	-0.9
PMS	2.28	55	P	14	58.40	-1.6
KDC	2.32	167	eP	14	57.02	-3.4
PTE	2.35	67	ePd	14	58.65	-2.2
PLRM	2.64	51	eP	15	02.89	-1.7
PMR	2.64	51	eP	15	01.13	-3.5
			eS	15	33.68	
GHO	2.83	49	eP	15	04.89	-2.3
SML	3.08	52	eP	15	07.78	-2.6
HIN	3.49	81	eP	15	13.65	-2.1
SCM	3.50	56	eP	15	13.77	-2.2
VLZ	3.68	69	eP	15	15.99	-2.3
TRF	3.77	22	eP	15	18.30	-1.3
CVA	3.87	79	eP	15	18.23	-2.6
KLU	3.98	65	ePd	15	19.49	-2.9
BALM	5.58	75	eP	15	41.19	-2.8

49 obs. associated

• MAY 03, 1993 03h 17m 40.65± 0.50s
56.183 S ±10.9km 25.553 W ±12.0km
DEPTH = 33.0km (normal)
5.2mb (3 obs.) 4.6Msz (3 obs.)
SOUTH SANDWICH ISLANDS REGION (153)

NVL	21.65	147	iPd	22	30.00	0.4
	1.0s		23.00nm			4.6mb
	Z 19s		1.00um			4.2Msz
			e	26	34.00	
SPA	34.00	180	iPd	24	22.90	-0.2
	1.0s		44.50nm			5.3mb
VAO	36.70	326	(P)	24	55.00	8.7X
PPD	39.06	320	eP	25	07.40	1.3
CYA	39.76	297	eP	25	10.00	-1.8
BAO	43.95	328	(P)	26	03.00	16.8X
SIV	48.34	312	P	26	32.00	11.1X
CCH	49.33	305	eP	26	28.00	-0.9
CNCB	50.68	303	P	26	40.00	0.5
LPB	50.98	303	P	26	42.00	0.4
	Z 20s		0.71um			4.7Msz
			LR	45	06.00	
ZOBO	51.22	304	iPc	26	43.10	-0.5
	1.2s		47.30nm			5.3mb
			LR	42	15.00	
ARE	52.66	300	eP	26	55.00	0.9
LIC	64.45	23	P	28	16.10	0.3
	Z 19s		0.60um			4.8Msz
KIC	64.64	23	P	28	16.60	-0.5
TIC	64.86	23	P	28	18.00	-0.5
SDV	74.76	314	eP	29	20.00	0.8
BGMT	124.23	301	ePKP	36	36.90	0.1
YKA	136.89	317	ePKP	36	50.70	-9.4X
	1.0s		0.90nm			
MBC	144.48	336	ePKP	37	13.00	-0.3
	1.0s		4.00nm			
INK	146.49	320	ePKP	37	20.00	3.2X
	1.0s		6.00nm			
BJI	150.26	107	ePKP	37	29.00	5.4X
			e	37	41.00	

S.D. = 0.9 on 15 of 21 obs.

• MAY 03, 1993 03h 34m 17.08± 1.45s
40.286 N ± 8.2km 21.048 E ±11.9km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 2.2 (THE).

FNA	0.56	27	ePg	34	27.72	-0.7
			eSg	34	36.32	
OHR	0.85	347	iPg	34	33.50	0.1
			iSg	34	45.70	
LIT	1.12	99	ePb	34	37.68	-0.4
			eSb	34	54.96	
GRG	1.23	57	ePb	34	40.12	0.2
			eSb	34	58.00	
AGG	1.60	141	ePb	34	45.48	-0.1
KNT	1.66	58	ePb	34	46.92	0.6
SOH	1.84	72	ePb	34	49.36	0.4

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

? MAY 03, 1993 04h 26m 44.01±10.13s
19.181 N ±81.5km 66.713 W ±23.0km
DEPTH = 33.0km (normal)
PUERTO RICO REGION (90)

APR	0.73	181	P	26	58.00	0.2
LRS	0.89	188	P	27	00.00	-0.2
CLLP	1.10	173	P	27	03.20	0.0
PORP	1.12	176	P	27	03.00	-0.5
LPR	1.18	137	P	27	04.10	-0.2
			S	27	18.00	
SJG	1.19	153	iP	27	04.80	0.4
MGP	1.22	197	P	27	05.00	0.2
CPD	1.36	146	P	27	07.00	0.0

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

? MAY 03, 1993 04h 28m 49.74± 1.94s
12.994 S ±31.3km 75.598 W ±32.5km
DEPTH = 33.0km (normal)
3.9mb (1 obs.)
CENTRAL PERU (116)

ARE	5.26	131	e(P)	30	15.00	6.6X
ZOBO	7.93	115	P	30	47.10	0.8
LPB	8.06	117	P	30	49.00	1.1
CNCB	8.28	118	P	30	54.00	2.9X
CCH	10.12	117	eP	31	15.00	-1.3
SIV	14.38	104	P	32	24.00	11.0X
SDV	22.29	13	ePc	33	45.90	-0.2
PPD	24.81	115	eP	34	09.50	-0.9
KIC	72.96	79	P	40	15.20	-3.2X
YKA	81.15	343	eP	41	02.50	-0.6
	0.9s		1.10nm			3.9mb
MBC	92.78	350	eP	42	00.50	1.0

S.D. = 1.2 on 7 of 11 obs.

MAY 03, 1993 08h 01m 49.10± 0.73s
0.066 N ± 7.3km 123.376 E ± 7.6km
DEPTH = 161.2 ± 7.8 km
4.8mb (6 obs.)
MINAHASSA PENINSULA, SULAWESI (265)

MNI	2.00	47	eP	02	25.50	0.2
			eS	03	04.30	
PCI	3.67	255	ePc	02	46.00	0.0
			eS	03	15.50	
TRT	13.20	234	ePd	04	56.00	4.4X
WB2	22.61	152	eP	06	36.70	-0.2
			epP	07	13.30	194kmX
NANU	23.75	198	eP	06	47.00	-1.0
	0.8s		40.00nm			5.0mb
STK	36.15	153	eP	08	37.30	-0.2
	0.4s		2.70nm			4.3mb
MAT	38.81	19	iPc	08	58.40	-1.5
	0.7s		8.90nm			4.6mb
BRS	39.27	136	iPc	09	04.00	0.2
ARMA	40.51	141	iPc	09	15.00	1.1
	0.4s		B.00nm			4.7mb
GUN	45.36	311	P	09	53.80	0.3
PKI	45.54	310	P	09	54.60	-0.4
KKN	45.75	310	P	09	56.60	0.1
	0.8s		26.00nm			4.9mb
DMN	45.79	310	P	09	57.20	0.3
GKN	46.35	310	P	10	01.60	0.5
	0.7s		25.00nm			4.9mb
BGMT	113.60	39	ePKP	20	10.90	0.6

S.D. = 0.7 on 14 of 15 obs.

• MAY 03, 1993 08h 15m 52.59± 2.84s
40.833 N ±10.1km 30.525 E ±21.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 3.0 (ISK).

EYL	0.39	226	iPg	16	00.80	0.2
			eSg	16	04.10	
GPA	0.57	197	ePg	16	04.10	0.0
			eSg	16	10.80	
HRT	0.65	269	iPg	16	05.50	-0.1
YLV	0.92	253	ePg	16	09.60	-0.6
			eSg	16	21.60	
ISK	1.13	282	iPg	16	14.10	0.3
			eSg	16	28.60	
CTT	1.62	282	iPn	16	22.00	0.8
DMK	2.31	296	ePn	16	30.70	-0.5

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

? MAY 03, 1993 08h 49m 20.19± 1.13s
39.097 N ± 8.4km 27.604 E ±13.5km
DEPTH = 10 0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

IZM	0.75	201	iPg	49	34.80	-0.1
			iSg	49	48.30	
EZN	1.23	307	ePn	49	43.20	0.2
EDC	1.26	9	ePn	49	43.00	-0.7
KCT	1.29	27	iPn	49	44.60	0.5

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

% MAY 03, 1993 08h 51m 25.81± 1.24s
26.200 S ± 8.1km 28.177 E ±13.5km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.5 (PRE).

SLR	0.47	12	eP	51	35.10	-0.2
PRY	0.96	221	eP	51	43.50	-1.2
			S	51	55.50	
KSR	1.20	286	eP	51	48.90	0.1
			S	52	10.00	
SEK	2.17	193	eP	52	03.90	0.6
			S	52	32.00	
SWZ	2.73	248	eP	52	11.90	0.6

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

MAY 03, 1993 08h 55m 01.56± 1.08s
40.422 N ± 9.5km 21.862 E ± 7.2km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 1.9 (THE).

FNA	0.52	315	ePg	55	11.60	-0.4
			eSg	55	18.48	
LIT	0.58	124	ePg	55	13.88	0.6
			eSg	55	22.56	
GRG	0.67	37	ePg	55	14.44	-0.5
			eSg	55	23.88	
VAY	1.05	31	ePn	55	23.30	2.0
OHR	1.06	311	ePn	55	21.70	0.1
KNT	1.08	46	ePg	55	21.20	-0.7
SOH	1.20	70	ePb	55	23.12	-0.9
PAIG	1 48	109	ePb	55	28.00	-0.2
			eSb	55	47.80	
CIN	5.61	118	eP	56	48.00	21.0X

S.D. = 1.1 on 8 of 9 obs.

% MAY 03, 1993 08h 58m 31.39± 3.18s
36.912 S ±19.3km 176.929 E ±13.3km
DEPTH = 279.9 ± 25.1 km
OFF E COAST OF N. ISLAND, N.Z. (160)

KUZ	0 98	279	P	59	09.80	0.0
HBZ	1.29	122	eP	59	11.50	0.0
URZ	1.35	174	P	59	10.60	-1.2
			S	59	33.80	
PUZ	1.57	138	P	59	13.40	0.0
			S	59	37.90	
NOZ	1.92	153	P	59	16.50	0.5
PAHZ	1.95	177	eP	59	16.30	0.0
WHH	2.00	190	P	59	16.20	-0.6
MOH	2.22	176	P	59	19.00	0.4
NGZ	2 49	204	eP	59	22.00	0.7
CNZ	2 53	205	P	59	22.30	0.7
TTH	2 63	182	P	59	23.00	0.6
WAHZ	2 82	189	P	59	24.20	-0.2
PGZ	3.74	188	P	59	34.20	0.2
MNG	3.87	197	P	59	35.40	-0.2
			eS	00	18.40	
KIW	4 25	201	P	59	39.60	-0.2
MTW	4.38	194	P	59	41.10	-0.3
CAW	4.43	199	P	59	41.80	-0.2
MRW	4.65	201	P	59	44.40	-0.1
			eS	00	35.30	
WEL	4.68	200	P	59	44.70	-0.1
MOW	4.69	196	P	59	44.50	-0.5
KHZ	6.09	204	eP	00	02.20	0.4

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

% MAY 03, 1993 09h 05m 28.76± 0.66s
40.371 N ± 5.2km 23.188 E ± 5.9km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 1.9 (THE).

THE	0.31	327	ePg	05	35.82	0.6
			eSg	05	39.66	
SOH	0.47	16	iPg	05	38.22	-0.1
			eSg	05	44.41	
PAIG	0.58	139	ePg	05	40.82	0.3
			eSg	05	48.74	
LIT	0.60	243	ePg	05	40.54	-0.3
			eSg	05	49.62	
CUR	0.61	93	ePg	05	40.98	0.0
			eSg	05	49.58	
SRS	0.81	22	ePg	05	44.10	-0.3
KNT	0.82	345	ePg	05	44.46	-0.2

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

? MAY 03, 1993 09h 47m 26.90± 1.07s
39.081 N ± 8.0km 27.597 E ±12.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

IZM	0.73	201	iPg	47	41.30	0.0
			iSg	47	53.80	
EZN	1.23	307	iPn	47	49.80	0.0
BNT	1.30	11	ePn	47	51.00	0.1
KCT	1.31	26	ePn	47	51.00	-0.1

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

? MAY 03, 1993 10h 10m 00.71± 1.14s
39.058 N ± 8.4km 27.622 E ±13.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

IZM	0.72	203	iPg	10	14.80	-0.1
			iSg	10	27.80	
EZN	1.26	308	iPn	10	24.30	0.1
BNT	1.32	10	ePn	10	24.50	-0.5
KCT	1.32	25	iPn	10	25.50	0.4

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

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* MAY 03, 1993 11h 21m 17.21± 1.99s
46.469 N ±10.5km 14.933 E ±14.6km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 1.9 (VIE).

LJU	0.51	213	e(Pg)	21	27.60	0.1
			eSg	21	34.50	
CEY	0.81	206	ePg	21	32.90	-0.1
			iSg	21	44.40	
VOY	0.84	239	ePg	21	33.50	-0.1
			eSg	21	46.00	
			e	21	49.30	
VBY	0.99	167	ePg	21	36.00	0.0
			eSg	21	50.00	
			iSn	21	51.70	
TRI	1.11	227	eP	21	54.30	16.2X
KBA	1.25	300	iPgc	21	40.60	0.0
			iSg	21	58.50	

S.D. = 0.1 on 5 of 6 obs.

? MAY 03, 1993 11h 28m 18.59± 1.06s
39.666 N ± 8.9km 29.468 E ±10.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

ALT	0.79	141	ePg	28	34.00	0.0
			eSg	28	45.00	
YLV	0.90	355	ePn	28	36.00	0.1
KCT	1.03	305	ePn	28	38.10	0.0
EYL	1.04	30	ePn	28	38.30	0.0

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

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* MAY 03, 1993 11h 57m 40.38± 0.64s
52.070 N ±14.7km 170.678 W ± 8.0km
DEPTH = 33.0km (normol)
4.0mb (10 obs.)
FOX ISLANDS, ALEUTIAN ISLANDS (9)

ADK	3.72	269	eP	58	39.36	2.5
			eS	59	23.16	
SVW	12.25	36	eP	00	37.92	2.6
TTA	13.40	30	eP	00	51.07	0.6
	1.2s		4.56nm			4.3mb
CRP	13.68	40	eP	00	55.58	1.3
INK	24.04	33	eP	02	53.00	0.2
	0.5s		1.00nm			3.6mb
YKA	31.04	48	eP	03	56.50	-0.4
	0.6s		0.70nm			3.6mb
MCMT	38.13	77	eP	04	58.20	0.1
MAT	38.88	267	(P)	05	15.00	10.8X
	1.1s		15.19nm			
DUG	40.78	83	eP	05	19.17	-0.8
	0.9s		2.87nm			4.0mb
BW06	41.25	78	eP	05	23.55	-0.4
	0.4s		1.01nm			3.9mb
FCC	41.75	50	eP	05	30.00	2.5
ARUT	41.87	87	(P)	05	29.69	0.7
SRU	42.84	83	eP	05	37.68	0.7
PV10	44.20	83	ePc	05	48.14	0.0
JAO	53.00	48	eP	06	54.00	-1.7
SSE	53.02	275	Pc	06	56.50	0.4
	1.0s		13.00nm			4.8mb
LTX	53.56	88	(P)	06	59.27	-1.0
LMN	63.60	49	eP	08	13.50	3.7X
KAF	65.37	351	iP	08	19.10	-2.0
NB2	67.23	359	P	08	31.00	-2.0
	0.7s		1.20nm			4.1mb
HFS	68.09	358	eP	08	35.60	-2.7
	0.4s		2.70nm			4.7mb
	Z 17s		0.05um			3.8MszX
			LR	35	20.00	
KMI	68 56	284	Pd	08	42.50	0.4
	1.5s		40.00nm			5.3mb X
GUN	76.15	298	P	09	26.00	-1.1
KKN	76.57	298	P	09	30.20	0.9
PKI	76.68	298	P	09	31.00	1.0
GKN	76.76	299	P	09	29.00	-1.2
DMN	76.81	298	P	09	30.40	-0.3
GEC2	79.39	357	PKP	09	43.20	-1.1
	0.8s		1.04nm			3.9mb
WRA	86.19	231	P	10	20.00	0.6
	0.7s		0.50nm			3.9mb

S.D. = 1.4 on 27 of 29 obs.

& MAY 03, 1993 12h 07m 24.10s
38.748 N 122.717 W
DEPTH = 3.0km
NORTHERN CALIFORNIA (36)
<BRK>. ML 3.3 (BRK), 3.3 (GS).
Felt in the epicentral area.

NTYM	0.36	173	ePc	07	31.78	0.5
ZSP	0.88	156	eP	07	41.43	-0.2
			eS	07	56.01	
HMR	0.93	129	eP	07	42.93	0.4
BKS	0.95	156	ePd	07	41.95	-0.9
			eS	07	55.94	
ORV	1.24	49	iPd	07	45.71	-2.1
JEGM	1.25	171	eP	07	47.14	-0.8
			S	08	04.40	
PCC	1.27	168	eP	07	46.68	-1.7
			eS	08	06.46	
MHC	1.64	149	ePc	07	52.43	-1.6
ARN	1.68	146	eP	07	53.27	-1.3
			S	08	18.76	
COE	1.70	151	eP	07	53.71	-1.1
GCC	1.81	161	eP	07	54.02	-2.3
WDC	1.83	4	eP	07	54.44	-2.3
CMB	1.97	111	ePd	07	57.70	-1.0
			eS	08	22.48	
KMPM	1.99	327	(P)	07	58.30	-0.8
LGPM	2.16	358	(P)	08	01.92	0.3
SAO	2.22	153	eP	08	00.17	-2.2
FHC	2.27	335	(P)	08	00.51	-2.6
MMPM	3.12	110	eP	08	15.62	0.2
MEMM	3.17	109	eP	08	16.19	0.5
MRCM	3.49	107	(P)	08	19.66	-0.9
MTUM	3.56	112	eP	08	21.81	0.2
KVN	3.61	84	ePn	08	20.52	-1.9
			ePg	08	29.75	
TNP	4.37	97	(Pn)	08	33.10	0.0
			ePg	08	42.15	
ISA	4.58	131	eP	08	35.03	-0.9
			Lg	09	40.26	

24 obs. associated

MAY 03, 1993 12h 37m 38.99± 0.36s
14.394 N ± 5.9km 40.131 E ± 7.8km
DEPTH = 10.0km (geophysicist)
4.7mb (15 obs.) 4.5Msz (1 obs.)
ETHIOPIA (558)
MD 4.6 (ARO).

DAF	3.62	140	ePc	38	36.00	-0.4
KSU	3.64	141	ePc	38	36.40	-0.2
SGH	3.82	140	ePc	38	39.00	-0.2
ARO	3.89	137	ePc	38	40.00	-0.2
			S	39	42.00	
ATA	4.19	134	ePc	38	51.60	7.3X
DHJN	4.58	44	iPd	38	51.00	0.8
ABHA	4.59	33	iP	38	49.00	-1.2
AAE	5.50	194	Pn	39	04.50	1.3
BHL	19.84	349	P	42	16.00	2.9

		S	49 44.00		
MAIO	27.86 35	eP	43 26.00	-4.9X	
OHR	31 49 331	eP	44 03.70	0.5	
SKO	31.89 333	iP	44 07.20	0.5	
		ı	44 09.60		
MLR	33.24 342	eP	44 20.00	1.5	
VRI	33.35 343	eP	44 18.00	-1.3	
ZAG	37.35 332	eP	44 54.50	1.1	
PTJ	37.42 332	eP	44 45.31	-8.8X	
VBY	37.45 331	e(P)	44 55.30	1.1	
SRO	37.92 336	eP	45 01.60	3.4X	
TRI	38.32 330	eP	45 02.50	1.0	
SPC	38.35 339	eP	45 03.10	1.1	
VOY	38.49 330	e(P)	45 04.30	1.2	
		e	46 30.00		
ZST	38.72 335	eP	45 05.50	0.7	
OGA	40.48 329	ıPc	45 21.40	1.7	
GEC2	40.65 333	P	45 21.40	0.4	
	1.2s 11.06nm		4.4mb		
		e	45 32.60		
OBN	40.71 357	eP	45 21.00	-0.2	
	2.0s 110.00nm		5.2mb		
		e	45 33.00		
KSP	41.15 337	eP	45 25.50	0.6	
PRU	41.17 335	eP	45 23.00	-2.1	
	1.3s 9.10nm		4.3mb		
LPG	41.87 325	eP	45 30.00	-1.2	
	1.2s 14.90nm		4.6mb		
LPL	41.89 325	eP	45 30.20	-1.1	
	1.4s 17.85nm		4.6mb		
BRG	42.09 335	eP	45 32.90	0.3	
	1.2s 13.00nm		4.5mb		
GRF	42.38 332	eP	45 34.50	-0.5	
CLL	42.81 335	e(P)	45 38.00	-0.5	
MOX	42.90 333	eP	45 39.40	0.1	
	1.9s 29.00nm		4.7mb		
BSF	43.28 327	eP	45 42.20	-0.4	
	1.4s 36.15nm		4 9mb		
CDF	43.40 328	eP	45 43.00	-0.5	
HAU	43.62 327	eP	45 44.60	-0.6	
SMF	44.18 324	eP	45 48.90	-0.8	
LBF	44.30 325	eP	45 49.90	-0.8	
	1.2s 16.35nm		4.8mb		
LOR	44.53 325	eP	45 51.70	-0.9	
	1 4s 28 75nm		5.0mb		
AVF	44.54 324	eP	45 51.60	-1.0	
	1.2s 8.35nm		4.5mb		
SSF	44.61 324	eP	45 52.10	-1.1	
APO	49.87 343	eP	46 32.90	-1.4	
	0.5s 3.80nm		4.6mb		
NB2	51 05 342	P	46 42.00	-1.3	
	0.8s 5 00nm		4.5mb		
LZH	60.50 57	eP	47 52.50	0.5	
	2.0s 51.00nm		5.3mb		
Z	20s 0.35um		4.5Msz		
YAK	77.23 29	eP	49 35.50	0.9	
	2.0s 51.00nm		5.3mb		
		e	52 30.00		
S.D. = 1.1 on 41 of 45 obs.					

MAY 03, 1993 14h 33m 50.14± 1.02s
34.508 S ±10.2km 70.161 W ± 5.8km
DEPTH = 10.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)
MD 4.0 (SAN).

CHCH	0.70 324	iP	34 03.66	-0.4	
		iS	34 13.87		
PCH	0.93 342	iP	34 07.66	-0.3	
		ıS	34 21.09		
TACH	1.07 323	iP	34 09.83	-0.5	
		iS	34 25.69		
SAN	1.13 338	iP	34 11.10	-0.3	
		iS	34 27.17		
LNV	1.17 298	iP	34 11.66	-0.4	
		iS	34 27.95		
FCH	1.18 355	iP	34 11.92	-0.5	
		iS	34 29.04		
RFA	1.42 101	ıP	34 16.00	-0.1	
		S	34 34.20		
PEL	1.43 342	iP	34 16.44	0.3	
		iS	34 36.19		
LCCH	1.56 311	iP	34 18.29	0.4	
		iS	34 39.82		
ROCH	1.69 335	iP	34 21.01	1.0	
		iS	34 43.69		
JACH	1.86 349	iP	34 23.42	1.1	
		iS	34 48.41		
MDZ	1.95 34	e(P)	34 27 80	4.1X	
MRA	4.27 62	ePc	34 56 60	0.0	
		S	35 06.30		
TCA	5.65 58	e(P)	35 16.00	-0.3	
S.D. = 0.6 on 13 of 14 obs.					

% MAY 03, 1993 14h 45m 42.78± 0.57s
33.376 S ± 7.9km 70.542 W ±10.7km
DEPTH = 80.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)
MD 3.5 (SAN).

FCH	0.22 77	iP	45 55.24	-0.1	
		iS	46 04.97		
PCH	0.25 175	iP	45 55.13	0.1	
		iS	46 04.71		
PEL	0.26 333	iP	45 55.29	0.2	
		iS	46 04.89		
TACH	0.43 230	iP	45 56.18	0.0	
		iS	46 06.64		
ROCH	0.56 316	iP	45 57.40	-0.1	
		iS	46 09.33		
CHCH	0.56 189	iP	45 57.41	0.1	
		iS	46 09.42		
JACH	0.69 356	iP	45 58.64	-0.1	
		iS	46 10.99		
LCCH	0.87 263	iP	46 00.66	0.2	
LNV	0.93 231	iP	46 00.89	-0.3	
		iS	46 16.22		
S.D. = 0.2 on 9 of 9 obs.					

% MAY 03, 1993 14h 51m 05.37± 0.78s
41.162 N ± 8.7km 28.751 E ± 5.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

ISK	0.25 112	ePg	51 10.90	0.2	
		iSg	51 14.90		
HRT	0.77 116	iPn	51 20.40	-0.1	
KCT	0.96 198	iPn	51 23.80	0.1	
DMK	1.00 312	iPn	51 24.30	0.1	
EYL	1.22 119	ePn	51 28.00	-0.2	
KGT	1.31 238	iPn	51 29.40	-0.2	
S.D. = 0.2 on 6 of 6 obs.					

• MAY 03, 1993 15h 02m 38.24± 1.80s
15.664 S ±19.8km 174.083 W ±15.9km
DEPTH = 202.8 ± 15.7 km
4.5mb (19 obs.)
TONGA ISLANDS (173)

VUN	7.51 251	ePc	04 27.00	0.9	
SVA	7.55 250	ePc	04 27.20	0.7	
DZM	19.49 248	iPc	06 55.90	3.9X	
ARMA	34.64 239	eP	09 09.20	-1.1	
	0.7s 6.00nm		4.3mb		
STK	43.34 240	eP	10 21.30	-0.7	
	0.6s 7.20nm		4.4mb		
WB2	49.13 257	iPc	11 06.70	-0.8	
	0.5s 7.80nm		4.4mb		
WRA	49.14 257	P	11 06.90	-0.7	
	0.6s 2.10nm		3.8mb		
ASPA	49.41 252	iPd	11 08.80	-0.8	
	0.7s 44.20nm		5.0mb		
WARB	55.94 249	eP	11 56.50	-1.4	
	0.4s 6.00nm		4.7mb		
PLM	73.16 47	ePd	13 48.22	-0.5	
CMB	73.40 42	eP	13 49.43	-0.4	
	0.8s 8.54nm		4.5mb		
KDC	75.29 12	eP	14 00.40	0.2	
RSO	77.78 11	eP	14 13.40	-0.9	
SVW	77.92 9	eP	14 14.31	-0.5	
	0.8s 11.11nm		4.6mb		
SLKM	78.30 12	eP	14 16.62	-0.3	
CP2	78.62 11	eP	14 18.25	-0.6	
CRP	78.64 11	eP	14 18.00	-0.9	
MSU	79.08 45	ePd	14 21.59	-0.3	
PMR	79.51 12	eP	14 23.10	-0.2	
	0.9s 25.40nm		5.0mb		
TTA	79.61 8	ePd	14 24.82	0.9	
	0.9s 8.78nm		4.5mb		
KLU	80.09 13	eP	14 26.50	0.0	
SRU	80.49 45	ePd	14 28.66	-0.6	
DAU	80.64 44	eP	14 29.55	-0.6	
PV09	81.16 46	eP	14 32.95	0.1	
PV10	81.17 46	eP	14 32.20	-0.7	
LTX	81.30 56	ePd	14 32.50	-1.1	
ALO	81.47 50	ePd	14 34.68	0.2	
	0.7s 5.56nm		4.4mb		
PV08	81.53 46	eP	14 34.93	0.1	
FBA	82.78 11	ePd	14 40.10	-0.2	
	0.7s 30.53nm		5.1mb		
BW06	82.91 42	ePd	14 41.14	-0.6	
	0.7s 12.88nm		4.8mb		
IMA	82.91 8	ePd	14 41.20	0.1	
	0.8s 4.83nm		4.3mb		
LCCM	82.98 39	ePd	14 42.10	0.1	
GOL	84.31 46	ePd	14 49.20	0.3	
	0.6s 6.63nm		4.5mb		
RSSD	87.10 43	eP	15 01.78	-0.6	
	0.5s 3.64nm		4.5mb		
INK	88.68 14	eP	15 11.00	1.8	
	1.0s 1.00nm		3.7mb		
YKA	90.60 24	eP	15 16.70	-1.4	
	1.1s 3.90nm		4.3mb		
MBC	97.32 11	eP	15 49.00	0.4	
	1.0s 1.00nm		4.1mb		
KSP	143.93 349	ePKP	21 49.70	-1.1	
CLL	143.99 352	iPKPc	21 49.30	-1.6	
	0.8s 10.00nm				
BRG	144.29 351	ePKP	21 50.70	-0.7	
MOX	144.80 354	ePKP	21 52.70	0.4	
PRU	145.06 350	iPKPd	21 53.20	0.5	
	1.0s 22.50nm				
SNF	145.22 2	PKPc	21 54.10	1.2	
DOU	145.64 2	PKP	21 55.70	2.0	
GRF	145.79 354	ePKPd	21 56.20	2.2	
KHC	146.04 351	ePKP	21 56.50	2.0	
		e	22 37.50		
WLF	146.09 360	PKP	21 58.00	3.6X	
GEC2	146.30 351	PKP	21 56.10	1.1	
	0.9s 4.26nm				
		e	22 03.70		
		e	22 09.00		
FLN	146.58 8	iPKPd	21 57.20	1.9	
	0.8s 23.25nm				
LDF	146.79 7	iPKPd	21 57.80	2.2	
	1.1s 23.95nm				
GRR	146.89 8	iPKPd	21 58.40	2.6X	
	0.9s 24.10nm				
LPF	147.22 9	iPKPd	21 59.40	3.1X	
	1.1s 53.70nm				
CDF	147.32 358	iPKPd	21 59.80	3.2X	
	0.9s 10.50nm				
HAU	147.75 359	iPKPd	22 01.00	3.8X	
	0.7s 9.80nm				
BSF	147.92 359	iPKPd	22 01.30	3.7X	
	0.8s 5.50nm				
LOR	148.44 3	iPKPd	22 02.90	4.6X	
	1.0s 13.40nm				
SSF	148.63 3	iPKPd	22 03.60	5.0X	
	1.0s 23.80nm				
LBF	148.73 3	iPKPd	22 03.60	4.8X	
	0.9s 11.80nm				
MFF	148.74 8	iPKPd	22 03.30	4.5X	
	1.2s 20.85nm				
AVF	148.89 3	iPKPd	22 03.80	4.8X	
	1.0s 11.20nm				
SMF	149.06 3	iPKPd	22 04.20	4.9X	
	0.9s 8.70nm				
BGF	149.09 4	iPKPd	22 04.50	5.1X	
	1.0s 21.20nm				
VBY	149.23 347	ePKP	22 05.10	5.5X	
LSF	149.29 6	iPKPd	22 04.60	4.9X	
	1.2s 38.10nm				
TCF	149.31 5	iPKPd	22 04.90	5.2X	
	1.1s 11.00nm				
MAF	149.41 5	iPKPd	22 05.40	5.5X	
	1.2s 28.25nm				
RJF	150.22 6	iPKPd	22 07.20	6.1X	
	1.1s 14.15nm				
LPL	150.23 359	iPKPd	22 08.40	7.0X	
	1.0s 11.20nm				
LPG	150.25 359	iPKPd	22 08.40	6.9X	
	1.1s 14.90nm				
LFF	150.49 7	iPKPd	22 07.90	6.4X	
	1.3s 631.20nm				
CAF	150.65 6	iPKPd	22 08.40	6.6X	
	1.0s 10.00nm				
LPO	150.80 7	iPKPd	22 08.50	6.5X	
	0.9s 12.60nm				
S.D. = 1.0 on 48 of 72 obs.					

? MAY 03, 1993 15h 17m 09.44± 7.24s
44.351 N ±12.5km 8.000 E ±78.8km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.1 (LDG).

SBF	0.64	220	Pg	17	21.90	-0.3
			Sg	17	29.50	
FRF	1.26	231	Pg	17	32.80	0.0
			Sg	17	46.10	
LPG	1.45	323	Pg	17	36.40	0.4
			Sg	17	53.40	
LPL	1.47	323	Pg	17	35.70	-0.5
			Sg	17	52.60	
LMR	1.48	227	Pg	17	36.40	0.3
			Sg	17	54.30	
LRG	1.49	233	Pg	17	36.20	0.0
			Sg	17	53.70	

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

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* MAY 03, 1993 16h 08m 55.40± 0.52s
4.968 N ± 8.0km 82.527 W ±13.2km
DEPTH = 10.0km (geophysicist)
4.4mb (5 obs.) 4.2Msz (2 obs.)
SOUTH OF PANAMA (83)
MD 4.5 (UPA).

DVD	3.45	1	iPc	09	48.16	-2.0
UPA	4.97	37	eP	10	12.94	1.1
			eS	11	08.72	
			e	11	09.39	
ECO	5.19	33	iPc	10	15.79	0.7
			eS	11	14.43	
ARE	23.93	153	eP	14	13.00	2.1
ZOBO	25.46	146	P	14	25.60	-0.4
	1.1s	29.00nm			4.9mb	
	Z 20s	0.55um			4.1Msz	
		S		19	06.00	
		LR		21	44.00	
LPB	25.69	147	P	14	28.00	0.0
	Z 20s	1 06um			4.4Msz	
		LR		53	12.00	
CNCB	25.98	147	P	14	30.20	-0.6
ALQ	37.14	326	eP	16	09.74	1.3
	1.1s	6.17nm			4.3mb	
SRU	42.40	327	iPd	16	53.10	1 1
MSU	42.89	325	(P)	16	55.15	-1.0
RSSD	43.34	337	eP	17	00.77	1.1
	1.4s	22.59nm			4.7mb	
DAU	43.73	328	iPd	17	04.23	1.3
YKA	62.09	344	eP	19	17.00	-1.5
	1.1s	2.00nm			4.2mb	
INK	71.76	342	eP	20	21.00	1.5
MBC	74.07	351	eP	20	33.00	0.0
	1.0s	2.00nm			4.1mb	
GKN	144.96	20	PKP	28	34.60	-0.9
	0.8s	17.00nm				
KKN	145.37	19	PKP	28	35.40	-0.8
	0.7s	22.00nm				
GUN	145.45	18	PKP	28	35.60	-1.0
	0.9s	31.00nm				
DMN	145.48	20	PKP	28	35.60	-0.9
PKI	145.62	19	PKP	28	35.80	-1.0

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

MAY 03, 1993 16h 52m 00.04± 1.02s
6.611 S ± 4.8km 130.502 E ± 6.1km
DEPTH = 86.1 ± 10.3 km
5.0mb (13 obs.)
BANDA SEA (280)

AAI	3.70	322	eP	52	58.00	1.9
MTN	6.23	174	iPc	53	29.00	-2.2
KUG	7.68	242	ePc	53	51.50	0.4
			eS	55	14.00	
MNI	9.80	325	eP	54	24.50	4.4X
			e(S)	56	09.80	
WSI	10.56	253	e(P)	54	30.10	-0.2
			eS	56	23.00	
WB2	13.77	165	iPd	55	06.60	-6.2X
			iS	57	30.40	
PMG	16.73	101	eP	55	50.00	-0.5
MBL	17.77	214	iPc	56	01.40	-1.9
	0.3s	27.00nm			5.0mb	
		eS		59	08.00	
KKM	19.01	311	ePd	56	17.90	-0.1
	0.8s	49.00nm			4.8mb	
WARB	19.81	190	eP	56	26.00	-0.3
	0.3s	13.00nm			4.8mb	
		e		56	29.00	
		eS		59	52.00	
CTA	20.33	133	iPc	56	32.00	0.3
	0.9s	37.82nm			4.7mb	
		i		56	35.00	
		i		56	42.00	
		eS		00	25.00	
NANU	21.45	221	iPc	56	43.80	0.9
		eS		00	34.00	
MEEK	22.91	208	eP	56	58.00	0.7
		eS		01	10.00	
OLP	23.78	148	eP	57	07.00	1.2
FORT	24.15	185	eP	57	10.00	0.7
		e		57	20.00	
COOL	25.69	199	eP	57	24.00	0.2
		eS		02	17.00	
MRWA	26.33	210	eP	57	30.00	0.4
		eS		02	28.00	
BAL	27.16	207	eP	57	37.00	-0.2
		eS		02	44.50	
STK	27.19	159	eP	57	36.70	-0.8
	0.5s	4.00nm			4.2mb	
		eS		02	41.50	
KLB	27.56	204	eP	57	41.50	0.6
MUN	28.55	206	eP	57	50.50	0.7
		iS		03	19.50	
ADE	29.21	166	e(P)	57	56.90	1.1
BRS	29.57	137	iPc	57	58.00	-1.1
		i		58	20.00	
ARMA	30.90	143	eP	58	11.30	0.5
BWA	32.25	152	iPc	58	23.80	1.3
CAN	33.25	152	eP	58	31.50	0.3
KHT	38.12	304	iPc	59	13.20	0.6
KMI	41.53	320	Pc	59	41.50	0.6
	2.0s	40.00nm			4.9mb	
		pP		59	47.30	20kmX
MAT	43.53	9	iPc	59	55.70	-1.1
	1.1s	17.72nm			4.8mb	
BJI	48.27	345	eP	00	34.50	0.3
LZH	49.30	331	eP	00	42.50	0.0
	1.0s	17.00nm			5.0mb	
GUN	55.08	311	P	01	25.60	-0.4
PKI	55.26	310	P	01	28.60	1.3
	0.7s	35.00nm			5.5mb	
KKN	55.47	310	P	01	27.60	-1.0
DMN	55.51	310	P	01	28.60	-0.4
	0.9s	79.00nm			5.7mb	
GKN	56.06	310	P	01	32.20	-0.7
GBA	56.38	291	Pc	01	33.80	-1.3
	0.1s	4.50nm			5.5mb	
HYB	56.59	296	ePc	01	35.00	-1.7
	1.0s	30.00nm			5.3mb	
YAK	68.43	360	eP	02	54.00	-0.3
	0.8s	26.00nm			5.2mb	
		e		03	49.00	
		e(S)		11	49.00	
MAIO	78.83	309	eP	03	52.00	-3.5X
		e		04	24.00	
YKA	107.18	26	ePKP	10	16.70	-0.7X
	0.6s	0.20nm				
GEC2	112.44	320	PKP	10	28.20	0.3X
	0.7s	1.12nm				
YJA	147.38	152	ePKPc	11	39.20	5.0X
CNCB	150.41	142	iPKPc	11	46.80	7.7X
LPB	150.55	142	PKP	11	47.00	7.8X
ZOBO	150.73	141	PKP	11	46.90	7.2X
	1.0s	17.50nm				
		LR		34	04.00	
CCH	151.04	146	ePKP	11	47.00	7.2X
PPD	151.48	176	ePKP	11	46.90	7.0X

S.D. = 1.0 on 37 of 48 obs.

% MAY 03, 1993 16h 54m 45.02± 0.43s
40.304 S ± 4.8km 173.249 E ± 4.8km
DEPTH = 240.3 ± 5.7 km
COOK STRAIT, NEW ZEALAND (163)

DIW	0.71	134	P	55	17.60	0.1
ORZ	0.76	226	Pc	55	17.90	-0.1
			S	55	38.80	
NRZ	1.10	29	Pd	55	20.10	0.2
TCW	1.20	140	P	55	20.40	-0.1
KIW	1.38	114	P	55	21.60	-0 2
BSZ	1.39	69	P	55	22.10	0.3
MRW	1.44	130	Pd	55	22.10	-0.1
			S	55	45.70	
THZ	1.48	190	P	55	22.80	0.2
			S	55	47.20	
WEL	1.51	131	P	55	22.60	-0 2
			S	55	46.70	
CAW	1.60	121	Pc	55	23.40	-0 1
MNG	1.73	101	P	55	24.60	0.0
			S	55	50.00	
DSZ	1.81	217	Pc	55	25.50	0.2
MOW	1.89	127	P	55	25.70	-0.3
MTW	1.91	117	P	55	25.90	-0.3
BLW	2.00	123	P	55	26.90	-0.1
CNZ	2.09	59	P	55	27.60	-0.3
KHZ	2.12	174	P	55	27.90	-0.2
			S	55	56.80	
NGZ	2.13	59	Pc	55	28.30	-0.1
MOZ	2.16	34	Pc	55	28.50	0.0
			S	55	59.00	
PGZ	2.33	99	P	55	30.20	0.0
WAHZ	2.46	77	P	55	31.40	-0.2
LTZ	2.58	196	P	55	33.20	0.4
			S	56	05.10	
TEHZ	2.75	85	P	55	34.80	0.2
TTH	2.85	76	P	55	37.00	1.3
WHH	2.88	62	P	55	35.60	-0.5
MOH	3.23	70	P	55	40.10	0.3
PAHZ	3.28	65	P	55	40.70	0.3
WVZ	3.35	213	P	55	41.30	0.1
MQZ	3.43	187	P	55	41.80	-0.3
			S	56	21.10	
URZ	3.63	57	P	55	43.50	-0.9
			S	56	25.30	
EWZ	3.67	208	P	55	45.60	0.7
MAHZ	3.74	74	P	55	47.00	1.2
NOZ	4.07	67	P	55	49.50	-0.2
PUZ	4.48	62	P	55	54.10	-0.6
HBZ	4.78	57	P	55	58.20	0.0
ODZ	5.11	201	eP	56	02.80	0.4
			eS	56	59.10	
MHZ	5.58	210	eP	56	07.50	-0.9
LSCZ	5.59	209	eP	56	07.90	-0.6
SBCZ	5.60	210	eP	56	07.80	-0.7
TLC	5.77	211	P	56	10.60	-0.2
MSZ	5.88	220	P	56	12.30	0.3
TUZ	6.24	204	P	56	17.10	0.6
BCZ	6.94	213	P	56	25.60	0.3

S.D. = 0.5 on 43 of 43 obs.

MAY 03, 1993 17h 14m 54.67± 0.46s
12.980 N ±10.5km 88.635 W ±10.2km
DEPTH = 49.7km (3 depth phases)
4.6mb (4 obs.)
OFF COAST OF CENTRAL AMERICA (76)
Felt (III) at Son Salvodor, El Salvodor.

LFU	0.90	329	iPd	15	12.40	1.2
TME	1.25	326	iPd	15	17.30	1.2
YPE	1.52	318	iPd	15	20.80	0.7
CUSS	1.58	306	iPc	15	19.70	-1.0
OXX	8.81	299	(P)	17	07.00	4.5X
IISM	10.31	307	(P)	17	25.00	2.2
PPM	11.35	304	(P)	17	38.00	0.5
III	11.73	299	(P)	17	42.00	-0.3
SDV	18.13	101	eP	19	06.10	1.2
TOV	18.74	98	ePc	19	13.60	1.4
			iPP	19	13.70	
LTX	21.44	322	iPc	19	39.97	-0.8
MIAR	21.93	349	eP	19	46.72	1.1
			epP	20	00.30	58km
MEO	23.51	339	iPd	20	02.10	1.1
FNO	23.55	342	iPd	20	02.10	0.7
OCO	23.82	342	iPd	20	07.50	3.4X
ACO	25.43	340	iPc	20	19.20	-0.3
GOL	30.44	334	iPc	21	04.64	-0.4
			ipP	21	16.46	45km
RSSD	33.73	340	iPc	21	33.75	0.0
			epP	21	46.21	47km
ZOBO	35.44	145	P	21	49.00	0.0
LPB	35.66	145	(P)	21	51.00	0.3
CNCB	35.95	145	P	21	53.80	0.5
CCH	37.47	143	(P)	22	07.00	1.2
LCCM	38.21	334	eP	22	11.80	0.2
SIV	39.64	136	Pc	22	37.60	13.9X
BAO	49.24	124	eP	23	38.90	-1.8
			i	23	52.60	

PPD	50.50	133	(P)	23	51.00	0.8
FRB	52.62	11	eP	24	03.50	-2.1
	0.7s		5.00nm			4.7mb
YKA	52.80	345	eP	24	04.50	-2.4
	0.7s		7.10nm			4.8mb
INK	62.36	343	eP	25	13.50	-0.6
	0.8s		2.00nm			4.3mb
MBC	65.34	352	eP	25	32.00	-1.5
	1.0s		6.00nm			4.6mb
WB2	138.29	255	ePKP	34	15.20	-2.0
	0.7s		3.30nm			
WRA	138.30	255	PKP	34	17.80	0.6
	0.8s		1.60nm			
HYB	147.25	23	ePKP	34	31.00	-1.7
GBA	150.20	28	PKP	34	41.00	3.7X
KHT	151.50	345	ePKP	34	45.00	5.7X

S.D = 1.3 on 30 of 35 obs.

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* MAY 03, 1993 19h 08m 36.14± 2.80s
31.662 S ±14.2km 69.195 W ±20.6km
DEPTH = 117.5 ± 22.5 km
SAN JUAN PROVINCE, ARGENTINA (137)

RTBS	0.22	270	iPc	08	52.80	-0.1
RTCB	0.38	63	iPc	08	53.50	0.0
			S	09	05.20	
RTLL	0.70	62	eP	08	55.00	-0.6
			(S)	09	04.00	
CFA	0.82	86	iPd	08	56.70	0.1
			S	09	06.00	
MDZ	1.25	167	iP	09	01.80	0.8
			iS	09	18.90	
RTPR	2.67	60	ePd	09	19.30	0.6
			S	09	50.90	
MRA	3.05	105	iPd	09	23.50	-0.2
			S	09	57.00	
RFA	3.16	169	iPc	09	24.80	-0.5
			S	10	01.30	
TCA	3.95	87	iPd	09	35.70	-0.2
			(S)	10	18.50	

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

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* MAY 03, 1993 19h 34m 42.19± 1.01s
28.061 S ±11.9km 176.725 W ±11.4km
DEPTH = 74.5 ± 7.9 km
4.9mb (11 obs.)
KERMADEC ISLANDS REGION (177)

RAO	1.58	221	eP	35	09.00	0.2
			S	35	30.50	
NOZ	11.40	201	eP	37	14.80	-9.3X
URZ	11.40	205	eP	37	12.10	-12.0X
			S	39	23.00	
MNG	14.07	205	eP	37	47.10	-12.2X
THZ	16.08	209	eP	38	17.10	-7.9X
KHZ	16.36	206	eP	38	20.90	-7.6X
			S	41	12.70	
DZM	16.37	288	iPc	38	29.90	1.1
BKM	17.27	304	iPc	38	54.00	14.1X
ODZ	19.71	207	eP	39	03.10	-5.0X
BRS	26.98	264	iPc	40	20.50	1.7
ARMA	27.67	257	eP	40	26.90	1.7
	0.8s		10.00nm			4.5mb
CNB	29.65	247	eP	40	43.90	1.0
CAN	29.94	247	eP	40	45.40	-0.1
TOO	32.96	243	eP	41	12.60	0.8
CTA	34.62	275	iPd	41	26.00	-0.3
STK	36.15	254	eP	41	38.20	-0.9
	0.9s		3.10nm			4.2mb
ASPA	44.41	264	iPd	42	46.60	-0.8
	1.1s		18.30nm			4.8mb
Z	22s		1.10um			4.7Msz
WB2	45.17	269	iPc	42	52.30	-1.2
	0.5s		13.70nm			5.1mb
WRA	45.18	269	P	42	52.70	-0.9
	0.8s		4.80nm			4.4mb
FORT	47.76	253	eP	43	11.00	-2.8
CSY	57.73	207	eP	44	26.20	-0.9
	0.5s		42.60nm			5.8mb
SPA	62.10	180	iPd	44	57.70	0.4
	0.7s		7.81nm			4.9mb
MAW	74.88	200	eP	46	18.50	2.4
	1.0s		16.67nm			4.9mb
CHJJ	76.20	324	eP	46	23.50	-0.5
MAT	76.98	324	eP	46	27.00	-1.4
	0.9s		17.65nm			5.0mb
MTMJ	77.22	324	eP	46	29.50	-0.3
TSRJ	77.40	322	eP	46	30.20	-0.5
NVL	81.26	183	(P)	46	48.00	-2.9
TUC	86.78	51	iPd	47	20.88	1.3
BJI	92.05	315	eP	47	44.00	0.0
	1.0s		13.00nm			5.3mb
KMI	93.77	296	eP	47	54.00	1.4
	1.5s		30.00nm			5.5mb
			pP	47	58.20	13kmX
YKA	102.86	25	ePdiff	48	48.40	15.9X
	0.6s		0.20nm			
MBC	109.89	12	ePKP	53	04.50	-0.9
KAF	142.69	342	ePKP	54	01.20	-6.6X
OBN	143.84	328	iPKPc	54	19.00	9.1X
	1.6s		64.00nm			
NUR	144.47	342	iPKP	54	08.20	-2.6X
	0.7s		14.80nm			
NB2	146.59	353	PKP	54	15.00	0.6
	0.9s		15.10nm			
UPP	146.73	347	iPKP	54	15.10	0.5
HFS	147.16	350	ePKP	54	15.20	-0.1
	0.5s		4.20nm			
KVT	150.24	304	ePKP	54	25.00	4.2X
HRI	151.66	289	ePKP	54	30.30	7.0X
BSD	151.69	346	iPKPc	54	29.00	6.6X
	0.8s		25.00nm			
KAS	151.80	306	ePKP	54	30.00	6.9X
ARVI	152.12	283	ePKP	54	31.40	7.6X
EKA	152.35	8	PKP	54	30.00	6.6X
	0.9s		5.40nm			
SAGI	152.54	282	ePKP	54	31.90	7.4X
CSS	153.53	293	ePKP	54	33.50	7.8X
KSP	155.20	340	ePKP	54	37.20	9.8X
BRG	155.82	343	e(PKP)	54	38.60	10.3X
			e	55	02.20	
KIC	157.12	159	PKP	54	32.20	1.1
KHC	157.51	342	ePkP	54	43.00	12.4X
			e	55	03.00	
			e	55	15.00	

S.D. = 1.3 on 29 of 51 obs.

MAY 03, 1993 19h 43m 20.87± 0.46s
32.223 S ± 8.1km 70.019 W ± 7.8km
DEPTH = 114.0 ± 7.9 km
CHILE-ARGENTINA BORDER REGION (127)
MD 4.5 (SAN).

JACH	0.67	227	iP	43	39.95	0.2
			iS	43	53.92	
RTBS	0.74	41	iPd	43	42.00	1.8
PEL	1.08	211	iP	43	43.52	0.0
			iS	44	00.06	
ROCH	1.12	228	iP	43	43.94	-0.3
			iS	44	01.08	
FCH	1.12	192	iP	43	45.02	0.6
			iS	44	02.94	
MDZ	1.19	124	iP	43	46.30	1.5
			iS	44	04.50	
SAN	1.34	204	iP	43	46.51	0.1
			iS	44	05.77	
PCH	1.45	196	iP	43	47.97	0.1
			iS	44	09.13	
TACH	1.62	208	eP	43	49.23	-0.6
			iS	44	10.40	
CHCH	1.79	197	iP	43	51.80	-0.1
			iS	44	16.10	
LCCH	1.81	226	iP	43	51.44	-0.6
			iS	44	13.60	
LNV	2.09	214	iP	43	54.24	-1.3
			iS	44	19.65	
RFA	2.85	153	iPc	44	06.00	0.2
RTPR	3.56	58	ePc	44	14.90	-0.3
MRA	3.65	94	iPc	44	15.80	-0.7
CYA	5.25	45	iPc	44	36.40	-1.9
			S	45	26.80	
FSA	7.05	31	e(P)	45	02.00	-0.9
SLA	8.46	29	ePc	45	38.30	16.0X
ANT	8.49	358	eP	46	19.00	56.4X
CNCB	15.45	7	P	47	01.30	6.9X
LPB	15.72	7	(P)	47	07.00	9.4X
ZOBO	15.98	7	P	47	07.00	6.1X
			LR	20	46.00	
SIV	18.09	29	P	47	39.20	12.8X
PPD	19.47	63	(P)	47	41.00	-0.2
TKL	68.75	348	eP	54	16.03	1.9
UYO	69.93	339	iPc	54	21.80	0.4

S.D. = 1.0 on 20 of 26 obs.

MAY 03, 1993 21h 00m 15.09± 0.37s
6.763 N ± 4.3km 72.969 W ± 3.9km
DEPTH = 162.0 ± 3.6 km
4.9mb (20 obs.)
NORTHERN COLOMBIA (99)

BMG	0.32	341	iPc	00	38.00	-0.7
FUQ	1.49	211	eP	00	46.00	-0.2
BOG	2.39	207	iP	00	57.00	0.7
			iS	01	29.00	
SDV	3.13	47	iPnd	01	06.70	1.4
			iSn	01	43.50	
TOV	4.35	46	iPnd	01	21.90	0.9
			iSn	02	12.10	
CEOS	5.11	64	iPc	01	30.80	-0.3
			iS	02	26.00	
GUAC	6.59	58	eP	01	50.40	-0.4
UPA	6.87	289	eP	01	53.36	-1.1
			iS	03	03.19	
OLLA	6.90	62	iPd	01	54.40	-0.7
LLAV	7.12	58	iPd	01	57.20	-0.8
ECO	7.14	292	eP	01	55.50	-2.7
			eS	03	12.89	
GUAN	7.91	66	iPc	02	07.40	-1.1
PCJ	11.66	340	iPd	02	58.68	1.1
STH	11.86	342	iPd	03	01.89	1.7
			S	05	05.91	
BBJ	12.29	340	iPd	03	07.93	2.1
ZOBO	23.38	168	Pc	05	11.80	0.8
	1.0s		82.50nm			5.2mb
			i	05	44.10	
LPB	23.64	168	P	05	15.10	1.8
			e	12	04.00	
CNCB	23.94	168	P	05	17.00	0.7
			i	05	51.80	
			i	12	07.00	
CCH	24.92	164	P	05	35.50	10.2X
SIV	25.49	153	P	05	43.60	13.4X
			i	06	15.00	
GOGA	28.25	341	eP	05	55.66	0.7
	0.5s		29.68nm			5.3mb
GBTN	30.56	342	iPc	06	16.34	0.9
OLY	33.27	332	eP	06	38.72	-0.3
BAO	33.28	132	eP	06	40.00	0.6
			e	17	09.00	
			e	18	27.30	
MIAR	33.55	328	ePc	06	40.55	-0.9
	0.7s		14.13nm			4.8mb
UYO	33.74	327	iPc	06	42.10	-0.9
ELC	33.80	336	ePc	06	43.16	-0.4
FVM	34.88	336	iPc	06	52.91	0.1
	0.5s		110.33nm			5.8mb
			e	07	39.88	
FNO	36.17	325	iPd	07	02.80	-0.9
LTX	36.61	312	eP	07	06.18	-1.4
			iPcP	09	27.57	
LMN	39.58	9	ePc	07	35.40	3.5X
EEO	40.08	353	eP	07	40.00	4.0X
CBM	40.24	5	eP	07	38.42	1.1
	0.7s		41.17nm			5.2mb
ALQ	41.66	317	eP	07	49.90	0.5
	0.8s		14.57nm			4.6mb
TUC	43.40	311	ePc	08	03.75	0.3
	0.8s		15.47nm			4.7mb
GLD	43.78	324	ePc	08	07.58	1.1
	0.8s		39.64nm			5.1mb
			epP	08	46.21	176kmX
GOL	43.83	323	iPd	08	07.48	0.4
	0.6s		52.10nm			5.3mb
PV09	45.44	319	eP	08	20.29	0.4
SRU	46.68	319	ePc	08	29.68	0.1
GLA	46.79	310	eP	08	30.54	0.3
JAQ	46.95	358	ePc	08	30.60	-0.6
EMUT	47.26	320	ePc	08	34.26	0.1
ULM	47.39	340	ePc	08	36.60	2.0
MSU	47.45	318	iPc	08	36.04	0.5
DAU	47.88	320	ePc	08	39.25	0.3
ARUT	47.94	316	eP	08	39.68	0.4
BW06	48.22	324	iPc	08	40.93	-0.5
	1.0s		19.05nm			4.7mb
PLM	48.47	309	eP	08	43.90	0.5
DUG	48.75	319	eP	08	45.82	0.3
	0.6s		17.59nm			4.9mb
HVU	49.59	321	eP	08	51.81	-0.1
TNP	50.71	315	eP	09	00.79	0.3
			(pP)	09	43.20	190kmX
LCCM	51.40	326	ePc	09	05.30	-0.2

03d 21h

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FCC     54.36 347 ePc    09 28.50   1.6
ORV     54.36 315 eP     09 27.23  -0.1
LBFM    55.37 316 iPd    09 34.07  -0.7
FRB     56.97   2 eP     09 44.00  -1.4
        0.5s     6.00nm          4.7mb
LON     57.70 322 iPc    09 50.48  -0.5
GMW     58.66 323 iPc    09 56.19  -1.4
MCW     59.21 324 eP     10 00.20  -1.2
YKA     63.37 340 P      10 27.80  -1.1
        0.5s    32.00nm          5.5mb
TIC     67.43  86 P      10 54.70  -1.1
LIC     67.46  86 P      10 55.00  -0.9
KIC     67.73  86 P      10 56.80  -0.8
INK     73.13 340 ePc    11 30.10   1.0
        0.6s     6.00nm          4.5mb
MBC     73.89 350 ePc    11 33.80   0.4
        0.5s    12.00nm          4.9mb
DAG     75.66  11 eP     11 43.00  -0.5
        0.8s    12.69nm          4.7mb
KLU     75.98 332 eP     11 46.13   0.5
SLKM    77.87 330 eP     11 55.99  -0.1
IMA     80.08 336 ePc    12 08.14   0.1
        0.8s     3.34nm          4.1mb
                 epP     12 53.72 186kmX
SVW     80.56 331 iPc    12 09.95  -0.6
        0.6s    21.64nm          5.1mb
NB2     81.31  29 P      12 14.40   0.0
        0.6s     2.50nm          4.1mb
GEC2    82.77  42 P      12 22.70   0.4
        0.7s     1.52nm          3.9mb
                 e       12 25.60
                 e       12 28.90
GKN   139.23  31 PKP    19 25.40   0.0
KKN   139.73  31 PKP    19 25.80  -0.6
DMN   139.79  31 PKP    19 26.60   0.1
GUN   139.93  30 PKP    19 24.40  -2.5X
PKI   139.97  31 PKP    19 26.00  -1.0
GBA   144.32  55 PKP    19 33.00  -1.3
KMI   148.03   7 ePKP   19 43.50   3.0X
        1.6s    50.00nm
ASPA  149.20 234 iPKPc  19 46.10   3.9X
        0 6s    16.80nm
WB2   150.43 241 ePKP   19 44.70   0.7
        0 5s    31.20nm
                 i       19 49.60
                 epP     20 29.80
WRA   150.44 241 PKP    19 45.00   0.9
        0.5s     5.60nm
      S.D. = 0.9  on  75 of  82 obs.
-------------------------------------
*  MAY  03, 1993  21h 02m 49.32± 0.98s
   11.199 N ± 8 2km   61.698 W ±19.8km
   DEPTH =  33.0km  (normal)
 WINDWARD ISLANDS                 ( 95)
      MD 2.9 (TRN).

TCE     0.50 186 eP     02 59.91  -0.1
                 eS      03 08.15
TRN     0.62 152 eP     03 02.37   0.8
                 eS      03 11.11
TPP     0 91 164 eP     03 02.69  -3.0X
                 eS      03 11.52
TBH     0.94 139 eP     03 05.65  -0.6
                 eS      03 15.49
GRW     0 96   2 eP     03 06.55   0.1
                 eS      03 15.87
FSA    37.29 186 eP     10 00.00  -0.2
      S.D. = 0.7  on   5 of   6 obs.
-------------------------------------
%  MAY  03, 1993  21h 04m 48.00± 0.71s
   37 525 N ± 7.1km    3.979 W ± 5.7km
   DEPTH =   5 0km  (geophysicist)
 SPAIN                            (377)
      mbLg 2.7 (MDD).

ELUO    0.23 279 iPgd   04 52.20  -0.5
                 eSg     04 56.00
ECOG    0.41 127 iPgc   04 57.10   0.8
                 eSg     05 02.50
EBAN    0.66  13 iPgc   05 01.50   0.4
                 eSg     05 10.00
EGUA    0.76 154 ePg    05 03.00  -0.3
                 eSg     05 12.70
EHOR    1.05 287 ePg    05 08.80   0.5
EHUE    1.14  75 ePg    05 09.00  -0.8
                 eSg     05 24.70
      S.D. = 0.9  on   6 of   6 obs.

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?  MAY  03, 1993  22h 39m 05.93± 1.88s
   48.926 N ±38.8km   18.399 E ± 7.3km
   DEPTH =  10.0km  (geophysicist)
 CZECH AND SLOVAK REPUBLICS       (547)

SPC     1.24  77 iPn    39 29.20   0.1
                 e(Sn)   39 49.30
VRAC    1.25 289 iPnd   39 29.40   0.4
        0.3s    27.00nm
                 eSg     39 47.40
PRU     2.73 294 ePg    39 51.40   0.8
                 eSg     40 21.50
KHC     3.18 276 Pn     39 56.50  -0.5
                 Pg      40 08.00
                 eSn     40 30.00
                 Sg      40 44.50
BRG     3.48 306 ePg    40 00.40  -0.7
                 iSg     40 41.20
      S.D. = 0.9  on   5 of   5 obs
-------------------------------------
   MAY  03, 1993  23h 15m 06.66± 0.73s
   14.404 S ±31.0km  173.021 W ±17.5km
   DEPTH =  23.3km  (  2 depth phases)
   5.1mb (  3 obs.)  4.9Msz (  4 obs.)
 SAMOA ISLANDS REGION             (169)
      Mw 5.4 (HRV).
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 14S, 21C
      Centroid Location:
      Origin Time          23:15:10.8 1.0
      Lat 14.83S 0.11 Lon 173.07W 0.10
      Dep  15.0 FIX Half-duration  1.1
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 0.05 0.05  Mtt= 0.33 0.06
        Mff=-0.38 0.05  Mrt= 0.75 0.16
        Mrf= 1.01 0.10  Mtf= 0.38 0.06
       Principal Axes:
        T  Val=  1.47  Plg=41  Azm=321
        N       -0.24      21      211
        P       -1.23      42      101
       Best Double Couple:Mo=1.4*10**17
        NP1:Strike=120 Dip=21 Slip=  -1
        NP2:       211     90     -111

BKM    18.30 257 iPd    19 22 50   1.7
DZM    20.93 246 iPc    19 40.80  -9.6X
TOD    43.38 230 eP     23 00.40  -8.7X
STK    44.86 239 eP     23 11.10 -10.0X
       0.4s     1.60nm
MAT    68.42 319 iPd    26 06.80  -2.1
       1.3s    23.08nm          5.2mb
     Z  20s     0.71um          4.9Msz
                 eS      35 16.00
TUC    75.48  51 eP     26 51.54   0.4
TTA    78.22   8 (P)    27 07.12   1.4
LTX    79.76  56 eP     27 14.24  -0.6
MCMT   80.25  39 eP     27 18.20   0.8
BW06   81.29  42 iPd    27 20.89  -2.0
FBA    81.35  11 eP     27 23.61   1.2
IMA    81.53   8 (P)    27 25.71   2.2
GOL    82.70  46 iPd    27 30.90   0.6
                 epP     27 38.25  23km
GLD    82.83  46 (P)    27 32.19   1.3
                 epP     27 39.63  24km
BJI    85.05 313 eP     27 39.50  -2.3
       1.5s    34.00nm          5.4mb
     Z  20s     0.54um          4.9Msz
                 eS      38 08.00
MEO    85.78  53 iPd    27 45.00  -0.6
INK    87.22  14 eP     27 53.50   1.6
YKA    89.04  23 eP     27 58.90  -1.8
       1.0s     2.90nm          4.6mb
MBC    95.89  11 eP     28 39.00   6.9X
CLL   142.87 354 ePKP   34 42.00   2.1X
MOX   143.66 355 ePKP   34 43.80   2.5X
PRU   143.98 352 ePKP   34 40.50  -1.4
                 e       34 49.00
DOU   144.35   3 PKP    34 46.40   3.9X
KAS   144.47 324 iPKPc  34 40.20  -2.9X
VRI   144.49 336 ePKP   34 38.50  -4.4X
GRF   144.64 355 ePKP   34 43.60   0.6
WLF   144.83   1 iPKPc  34 44.72   1.5
KHC   144.95 352 PKP    34 41.00  -2 6X
                 e       34 44 60
                 e       35 02.70
                 e       35 29.50
FLN   145.19   9 ePKP   34 41.80  -2.2X
       1.5s    36.55nm
     Z  22s     0.20um          4.8Msz
GEC2  145.21 352 PKP    34 42.00  -2.2X
       0.6s     0.73nm
                 e       34 44.00
                 e       34 49.70
                 e       35 05.30
ZST   145.28 348 ePKP   34 42.80  -1.3
SRO   145.38 347 ePKP   34 42.90  -1.4
LDF   145.41   8 ePKP   34 42.30  -2.0
       1.3s    45.15nm
GRR   145.50   9 ePKP   34 43.30  -1.2
       1.3s    28.90nm
CMP   145.65 337 ePKPd  34 48.00   3.1X
LPF   145.82  10 ePKP   34 43.90  -1.1
       1.3s    53.05nm
CDF   146.09 360 ePKP   34 44.90  -0.7
       0.9s    14.40nm
HAU   146.49   1 ePKP   34 46.10  -0.1
       1.0s    22.80nm
     Z  24s     0.15um          4.7MszX
BSF   146.67   0 ePKP   34 47.70   1.1
       1.2s    14.90nm
LOR   147.13   4 ePKP   34 47.80   0.6
       1.1s    17.60nm
     Z  22s     0.22um          4.9Msz
SSF   147.31   4 ePKPd  34 48.50   1.0
       1.2s    42.25nm
MFF   147.35   9 ePKP   34 48.20   0.6
       1.4s    36.15nm
LBF   147.42   4 ePKP   34 48.60   0.8
       1.2s    23.20nm
AVF   147.57   5 ePKP   34 48.80   0.9
       1.1s    13.45nm
RBL   147.59 351 PKP    34 49.10   1.0
PTJ   147.70 348 ePKP   34 50.40   2 1X
SMF   147.75   4 ePKP   34 50.30   2.1X
       1.2s    19.95nm
BGF   147.76   5 ePKP   34 49.20   1.0
       1.1s    19.80nm
ZAG   147.78 348 ePKP   34 49.00   0.7
LJU   147.82 350 e(PKP)34 48.00  -0.4
LSF   147.92   7 ePKP   34 50.60   2.1X
       1.1s    23.70nm
VOY   147.94 351 e(PKP)34 46.00  -2.7X
TCF   147.96   6 ePKP   34 49.70   1.1
       1.2s    13.10nm
MAF   148.07   6 ePKP   34 51.50   2.7X
       1.1s    26.35nm
CEY   148.14 350 e(PKP)34 44.00  -4.9X
CTI   148.21 354 PKP    34 53.60   4.5X
VBY   148.22 349 e(PKP)34 51.60   2.6X
TRI   148.27 351 e(PKP)34 55.00   5.9X
VAI   148.60 358 PKP    34 55.90   6.3X
LPL   148.99   0 ePKP   34 54.90   4.4X
LPG   149.01   0 ePKP   34 54.80   4.1X
LFF   149.11   9 ePKP   34 53.10   2.7X
       1.1s    19.55nm
LPO   149.42   8 ePKP   34 53.80   2.9X
       1.3s    23.85nm
BNI   149.45   0 PKP    35 02.30  11.1X
SKO   149.81 338 ePKP   34 49.50  -2.1
                 i       34 54.80
SFI   150.29 353 PKP    34 57.50   5.3X
PGD   150.35 353 PKP    35 02.00   9.4X
FIR   150.50 354 ePKP   34 51.00  -1.5
ARV   150.56 351 PKP    34 57.50   4.8X
OHR   150.80 338 iPKP   34 53.80   0.6
LMR   151.17   1 ePKP   35 02.90   9.3X
       1.1s     8.30nm
      S.D. = 1.3  on  39 of  71 obs.
-------------------------------------
   MAY  03, 1993  23h 27m 56.51± 0.25s
   19.638 S ± 6.4km  168.797 E ±10.4km
   DEPTH =  33.0km  (normal)
   5.1mb (  7 obs.)  4.8Msz (  1 obs.)
 VANUATU ISLANDS                  (186)

PVC     1.94 346 iP     28 27.00  -0.8
                 iS      28 48.00
BKM     2.03 345 iP     28 28.50  -0.6
                 iS      28 48.50
ARMA   18.88 232 eP     32 18.30   1.5
URZ    19.91 160 P      32 27.20  -1.0
CTA    21.21 265 iPc    32 41.00  -0.7
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                  i      32 46.00                 | VITF  148.28 338 PKP    47 36.76  -0.5  |        0.8s      5.50nm
                  i      32 53.00                 | VDL   148.30 332 ePKPd  47 37.70   0.0  |      S.D. = 1.1  on  75 of 129 obs.
MNG    21.68 166 P       32 44.60  -1.8           | BSF   148.31 337 PKP    47 36.64  -0.9  | ------------------------------------------
CNB    23.19 224 eP      33 02.60   1.1           | HAU   148.32 337 iPKPc  47 36.80  -0.6  | *  MAY  03, 1993  23h 36m 08.85± 0.94s
       0.9s     35.00nm          4.9mb            |        0.8s     23.50nm                 |    29.762 N ±14.1km   98.066 E ± 8.9km
LTZ    23.26 174 P       33 01.80  -0.2           | LOMF  148.69 336 PKP    47 37.51  -0.6  |    DEPTH =  10.0km  (geophysicist)
BWA    23.31 227 eP      33 01.50  -1.1           | RSM   148.73 326 PKP    47 38.90   0.8  |    5.1mb (  3 obs.)
CAN    23.44 224 eP      33 04.70   0.9           | TMA   148.86 332 ePKPc  47 38.40  -0.1  | XIZANG                              (306)
STK    27.28 238 eP      33 38.50  -1.5           | ROI   148.93 316 PKP    47 29.80  -8.9X |
       0.5s     2.30nm          4.1mb            | CSI   149.01 316 PKP    47 39.20   0.4  | KMI      6.21 137 Pd    37 43.00   0.0
ASPA   32.63 257 iPc     34 24.40  -3.3X          | TDS   149.04 316 PKP    47 38.90   0.1  |       1.5s     50.00nm          5.1mb
       0.5s     9.70nm          5.0mb            | SFI   149.05 327 PKP    47 35.90  -2.7X |                  pP     37 49.50
         epP    34 34.70  37kmX                  | VAI   149.09 332 PKP    47 38.40  -0.2  | LZH      7.96  36 eP    38 07.50   0.0
MAT    62.91 333 eP      38 17.00  -4.9X          | PGD   149.15 327 PKP    47 40.20   1.2  |       1.4s     34.00nm          5.4mb
KMI    78.13 302 Pc      39 52.50  -2.1           | ASS   149.20 325 PKP    47 38.80  -0.2  |     Z  25s      0.37um
       1.2s     40.00nm          5.3mb            | SGO   149.20 318 PKP    47 39.00   0.0  | PKI     11.33 262 P     38 55.20   1.1
YAK    87.10 343 iPd     40 36.00  -3.8X          | MMK   149.29 333 ePKPc  47 40.20   0.9  | KKN     11.39 263 P     38 55.20   0.4
       1.0s     50.00nm          5.7mb            | CZI   149.41 315 PKP    47 39.40   0.1  | DMN     11.58 262 P     38 56.00  -1.5
NVL    88.41 187 (P)d    40 43.00  -3.1X          | FIR   149.46 327 ePKP   47 40.00   0.8  | ASPA    63.31 143 iPc   46 31.40  -8.9X
       1.0s     40.00nm          5.7mb            | DIX   149.50 334 ePKPc  47 40.70   1.1  |       0.9s      5.70nm          4.8mb
YKA    101.21  27 ePdiff41 40.40  -4.3X          | BDI   149.59 328 PKP    47 38.70  -0.9  |     S.D. = 1.3  on   5 of   6 obs.
       0.8s     1.30nm          4.6mb            | ORO   149.62 333 PKP    47 39.80   0.2  | ------------------------------------------
KAF    130.27 338 iPKP   47 00.00  -4.5X          | BOB   149.63 330 PKP    47 40.50   0.9  |    MAY  04, 1993  00h 09m 32.72± 0.68s
       0.4s     1.90nm                           | MNS   149.64 324 PKP    47 39.70   0.0  |    27.973 S ± 5.6km  176.670 W ± 4.9km
NUR    131.94 337 ePKP   47 02.90  -4.8X          | FLN   149.69 346 iPKPc  47 39.90   0.5  |    DEPTH =  58.8 ±  5.6 km
APO    135.42 343 ePKP   47 08.20  -6.2X          |       1.0s     37.80nm                 |    5.3mb ( 28 obs.)
       0.5s     1.60nm                           | EMS   149.70 335 ePKPd  47 41.10   1.3  |  KERMADEC ISLANDS REGION          (177)
NB2    135.72 345 PKP    47 11.20  -3.8X          | LDF   149.76 345 iPKPc  47 39.90   0.3  |       Mw 5.7 (HRV).
       0.8s     1.60nm                           |       0.9s     18.35nm                 |       CENTROID, MOMENT TENSOR     (HRV)
VAY    144.08 314 iPKP   47 24.00  -6.6X          | LOR   149.82 339 iPKPc  47 40.70   1.0  |       Data Used: GDSN
MOX    144.17 335 ePKP   47 24.90  -5.6X          |       0.8s     26.85nm                 |       L.P.B.: 32S, 62C
       1.3s     24.00nm                          | LBF   150.03 339 iPKPc  47 41.10   1.0  |       Centroid Locotion:
KHC    144.49 332 PKP    47 26.50  -4.6X          |       0.9s     12.30nm                 |       Origin Time        00:09:34.3 0.3
       1.1s     8.00nm                           | SOI   150.05 314 PKP    47 42.70   2.4X |       Lat 27.65S 0.05 Lon 176.42W 0.04
           e    48 21.00                         | LSD   150.11 334 PKP    47 41.77   1.2  |       Dep  15.0 BDY Half-duration  1.6
SKO    144.53 316 iPKP   47 26.50  -4.9X          | SSF   150.12 340 iPKPc  47 41.50   1.3  |       Moment Tensor;   Scale 10**17 Nm
       1.0s     70.00nm                          |       0.9s     35.85nm                 |         Mrr= 1.10 0.05  Mtt= 0.36 0.06
GEC2   144.64 331 e(PKP)47 25.90  -5.6X          | GRR   150.12 346 iPKPc  47 41.10   1.0  |         Mff=-1.46 0.07  Mrt= 0.40 0.14
       0.9s     8.90nm                           |       0.9s     22.30nm                 |         Mrf= 3.09 0.19  Mtf=-0.01 0.05
WTS    144.76 341 ePKP   47 26.50  -4.9X          | PCP   150.22 331 PKP    47 40.80   0.3  |       Principol Axes:
       0.7s     8.90nm                           | LPL   150.23 334 iPKPc  47 42.30   1.6  |         T  Val=  3.20  Plg=56  Azm=282
GRF    145.07 334 iPKPc  47 28.10  -3.9X          |       0.9s     19.15nm                 |         N        0.34       4        187
     Z  22s      0 20um          4.8Msz           | LPG   150.24 334 iPKPc  47 42.40   1.6  |         P       -3.54      34         94
OHR    145.37 315 iPKPc  47 28.70  -4.2X          |       0.9s     21.95nm                 |       Best Double Couple:Mo=3.4**17
       0.9s     74 00nm                          | RSP   150.31 333 PKP    47 41.22   0.5  |        NP1:Strike=169 Dip=12 Slip=  72
DMU    145.64 355 ePKP   47 28.50  -4.3X          | SMF   150.37 339 iPKPc  47 41 70   1.1  |        NP2:          7     79         94
8HG    145.84 331 iPKPd  47 30.40  -3.0X          |       1.0s     13.20nm                 |
WME    145 88 353 ePKP   47 29.00  -4.2X          | AVF   150.41 340 iPKPc  47 41 80   1.2  | RAO      1.68 220 iP    10 01.00   0.8
YRC    146.06 353 ePKP   47 29.50  -4.0X          |       1.0s     10.40nm                 |                  iS    10 03.40
       1.1s     8.00nm                           | CKI   150.43 331 PKP    47 41.30   0.6  | KUZ     10.85 214 eP    12 03.10  -4.7X
KBA    146.08 329 iPKPc  47 30.00  -4.1X          | LPF   150.50 346 iPKPc  47 42.20   1.5  | VUN     10.88 335 eP    12 09.00   0.7
       1.1s     15 10nm                          |       0.8s     32.90nm                 | OUZ     11.00 227 eP    12 09.60  -0.2
ENN    146.11 340 ePKP   47 30.50  -3.2X          | BHB   150.55 333 PKP    47 40.67  -0.2  | URZ     11.50 205 eP    12 02.10 -14.4X
       0.7s     15.80nm                          | FIN   150.63 331 PKP    47 41.40   0.3  |                  eS    14 14.40
FUR    146.22 333 iPKPc  47 31.50  -2.6X          | BNI   150.63 334 PKP    47 43.70   2.5X | MOZ     12.69 212 eP    12 24.70  -7.6X
       0.9s     32.00nm                          | RRL   150.69 333 PKP    47 42.86   1.4  | PGZ     13.89 203 eP    12 37.50 -10.6X
           i    47 44.30                         | ROB   150.71 331 PKP    47 41.77   0.5  |                  eS    15 08.00
RBL    146.42 328 PKP    47 32.20  -2.3X          | BGF   150.78 340 iPKPc  47 42.90   1.7  | MNG     14.17 205 eP    12 37.80 -14.0X
FVI    146.70 329 PKP    47 32.30  -2.5X          |       0.8s     16.10nm                 |                  eS    15 12.50
WTTA   146.74 331 iPKPc  47 32.60  -2.5X          | PZZ   150.89 332 PKP    47 42.59   1.0  | SNZO    15.07 206 P     13 04.00   0.6
       1.1s     29.10nm                          | ENR   150.97 332 PKP    47 41.63   0.0  |                  S     15 36.00
ETA    146.78 354 ePKP   47 29.40  -5.3X          | STV   151.00 332 PKP    47 41.77   0.1  | THZ     16.18 209 eP    13 07.90  -9.8X
SNF    146.83 342 PKPd   47 33.20  -1.7           | IMI   151.00 331 PKP    47 42.86   1.2  |                  eS    16 00.70
HCG    146.85 352 ePKP   47 32.00  -2.9X          | SAOF  151.10 331 PKP    47 43.68   1.9X | DZM     16.39 287 iPc   13 21.90   1.5
       1.1s     10.00nm                          | AUTN  151.15 331 PKP    47 44.11   2.0X | KHZ     16.47 206 eP    13 09.70 -11.4X
HOFF   146.95 337 PKP    47 33.74  -1.4           | MAF   151.17 340 iPKPc  47 43.90   2.1X |                  eS    16 05.10
HAE    146.96 350 ePKP   47 32.50  -2.5X          |       1.0s     10.40nm                 | BKM     17.26 303 iPc   13 35.00   3.7X
LANF   146.98 337 PKP    47 33.62  -1.6           | TOUF  151.21 332 PKP    47 44.11   1.9X | LTZ     17.29 208 eP    13 21.90  -9.6X
WLF    146.98 339 iPKPc  47 33.81  -1.3           | TCF   151.22 340 iPKPc  47 43.90   2.0X | WVZ     18.19 211 eP    13 33.10  -9.4X
       1.0s     58.00nm                          |       0.9s     17.70nm                 | BWZ     19.72 210 eP    13 48.90 -11.1X
HTR    147.03 351 ePKP   47 32.40  -2.8X          | SBF   151.25 331 PKP    47 43.91   1.9X | BRS     27.03 264 iPd-  15 13.00   1.6
DOU    147.11 341 PKPc   47 33.00  -2.3X          | AURF  151.28 331 PKP    47 43.87   1.7  |       1.0s      8.00nm          4.3mb X
       0.8s     58.30nm                          | LSF   151.47 341 iPKPc  47 44.20   2.0X |     Z  18s     88.00um          6.4MszX
ECB    147.16 355 ePKP   47 30.80  -4.5X          |       0.9s     18.20nm                 |                  e     16 00.00
ECP    147.30 354 ePKP   47 33.50  -2.0           | PGF   151.49 328 PKP    47 44.95   2.4X |                  iS    19 15.00
STR    147.32 336 PKP    47 34.83  -0.9           | CALN  151.58 332 PKP    47 44.85   2.2X | ARMA    27.74 257 eP    15 19.20   1.4
HGH    147.39 350 ePKP   47 33.60  -2.1X          | MFF   151.62 344 iPKPc  47 44.60   2.2X |       0.5s      8.00nm          4.6mb
WLS    147.61 337 PKP    47 35.08  -1.2           |       0.9s     15.90nm                 | CAN     30.02 247 eP    15 38.80   0.6
CTI    147.64 330 PKP    47 35.20  -1.3           | FRF   151.84 332 iPKPc  47 45.20   2.4X | BWA     30.44 249 iPc   15 40.30  -1.6
CDF    147.64 337 PKP    47 35.16  -1.2           |       0.9s     17.85nm                 | TOO     33.04 243 eP    16 05.00   0.4
SLE    147.70 335 ePKPc  47 35.00  -1.4           | LRG   152.05 332 iPKPc  47 46 00   2.9X |       0.5s     14.00nm          5.1mb
FEL    147.80 335 PKP    47 35.16  -1.6           |       1.0s     26.60nm                 | CTA     34.66 275 iPc   16 19.00   0.3
ECH    147.85 337 PKP    47 35.44  -1.2           | LMR   152.08 332 iPKPc  47 45.80   2.6X |       1.0s     10.00nm          4.7mb
OSS    147.85 332 ePKPc  47 36.20  -0.7           | CAF   152.48 339 iPKPc  47 46.80   3.0X |     Z  18s     34.36um          6.1Msz
ZLA    147.97 335 ePKPd  47 36.10  -0.8           | LFF   152.89 341 iPKPc  47 47.70   3.4X |                  eS    22 09.00
MOF    148.16 336 PKP    47 36.19  -1.1           |       0.8s      8.35nm                 | OLP     34.68 263 eP    16 18.60  -0.2
LLS    148.21 333 ePKPc  47 36.80  -0.7           | LPO   152.98 340 iPKPc  47 48 10   3.7X | STK     36.22 253 iPc   16 31.40  -0.4
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04d 00h

	1.2s	3.60nm		4.2mb X	CP2	91.11	12 eP	22 30.63	-1.2	KAF	142.63	342 iPKP	28 54.70	-5.4X
		eS	22 35.50		CRP	91.12	12 eP	22 30.54	-1.3		0.5s	2.00nm		
ADE	38.44	248 iPd	16 50.60	0.1			i	22 42.52		TAB	142.85	297 ePKP	28 58.00	-3.5X
ASPA	44.46	264 iPc	17 38.70	-1.3	ALQ	91.15	51 eP	22 32.48	-0.2	OBN	143.79	328 iPKPd	28 59.50	-2.8X
	0.8s	31.80nm		5.2mb		1.4s	26.98nm		5.5mb		2.0s	180.00nm		
	Z 22s	4.40um		5.3Msz	NST	91.39	287 eP	22 36.00	2.2	OBN	143.79	328 iPKP	29 12.00	9.7X
		eS	24 03.70		SIT	91.60	21 P	22 40.00	6.1X		1.6s	160.00nm		
		eScS	27 39.10			Z 20s	0.61um		5.0Msz		Z 20s	0.50um		5.3Msz
WB2	45.22	269 iPc	17 44.70	-1.4	DPW	91.92	35 eP	22 35.52	-0.2			e	30 16.00	
	0.5s	19.40nm		5.2mb	PMR	91.99	13 P	22 50.00	14.4X			ePP	31 28.00	
		epP	19 25.50	552kmX		Z 19s	0.58um		5.0Msz	NUR	144.41	342 iPKP	29 00.90	-2.3X
WRA	45.23	269 P	17 45.00	-1.2	BJI	92.03	315 eP	22 37.00	0.8		0.9s	33.90nm		
	0.6s	5.80nm		4.6mb		1.6s	67.00nm		5.8mb	NB2	146.51	353 PKP	29 07.40	0.6
FORT	47.84	253 eP	18 04.40	-2.1		Z 20s	0.90um		5.2Msz		0.7s	16.10nm		
WARB	50.11	258 eP	18 21.00	-3.1X			eSKS	33 10.00		UPP	146.65	347 iPKP	29 07.30	0.4
HON	52.22	22 P	18 50.00	10.0X			eS	33 40.00				i	29 18.90	
	Z 19s	0.60um		4.6Msz			eSS	40 00.00		SUE	146.91	359 ePKP	29 09.09	1.8
MBL	57.60	262 eP	19 17.00	-2.1	TTA	92.08	9 eP	22 36.02	-0.1	HFS	147.08	350 ePKP	29 07.50	-0.2
	0.5s	10.00nm		5.2mb		1.1s	7.15nm		5.0mb		0.4s	6.90nm		
CSY	57.83	207 eP	19 19.40	-0.6	MCMT	92.87	40 eP	22 41.80	1.4		Z 20s	0.13um		4.7Msz
	0.5s	76.20nm		6.1mb	BALM	92.98	16 eP	22 38.34	-2.0			LR	21 06.00	
SPA	62.19	180 iPc	19 49.90	-0.3	BW06	93.58	43 eP	22 43.16	-0.5	KONO	148.04	354 ePKP	29 12.50	3.3X
	1.2s	51.41nm		5.5mb		1.0s	7.43nm		5.1mb	KMY	148.74	358 ePKP	29 13.98	3.7X
CTB	66.91	292 ePd	20 20.00	-1.3	KMI	93.78	296 Pc	22 47.00	2.0	KVT	150.23	305 iPKP	29 20.00	6.7X
LEM	74.23	271 iPc	21 05.00	-0.8		1.6s	70.00nm		5.8mb	EDR	150.77	7 ePKP	29 18.30	4.8X
CHJJ	76.15	324 P	21 15.10	-1.0		Z 18s	1.00um		5.3Msz		1.3s	39.00nm		
WKYJ	76.60	321 P	21 18.90	0.2			pP	22 51.80	15kmX	MUD	151.23	353 ePKP	29 20.40	6.3X
MAT	76.94	324 iPc	21 19.90	-0.6			sP	22 55.00			1.3s	44.00nm		
	1.1s	46 84nm		5.4mb			PP	23 04.50		EBH	151.32	8 ePKP	29 20.40	6.1X
	Z 20s	1.06um		5.2Msz	CHG	93.88	289 eP	22 47.00	1.8		1.1s	83.00nm		
		eS	30 52.00		GOL	94.48	47 eP	22 48.07	0.2	COP	151.54	349 iPKP	29 22.30	7.7X
MTMJ	77.18	324 P	21 21.90	0.0		1.9s	30.99nm		5.4mb		0.8s	93.28nm		
KAGJ	77.19	316 eP	21 22.00	0.0		Z 19s	1.28um		5.4Msz	BSD	151.61	346 iPKPc	29 21.80	7.0X
OFUJ	77.21	328 eP	21 22.40	0.5	GLD	94.60	47 P	23 00.00	11.6X		0.8s	31.00nm		
TKSJ	77.30	320 eP	21 19.20	-3.3X		Z 21s	2.38um		5.6Msz	SHMJ	151.68	288 PKP	29 22.50	6.8X
KUMJ	78.17	317 eP	21 35.10	7.8X	ARE	95.21	112 e(P)	22 54.00	2.1	MASJ	151.72	286 PKP	29 22.00	6.2X
YONJ	78.50	320 P	21 29.10	0.0	FBA	95.26	12 eP	22 49.40	-1.2	BHL	151.73	290 PKP	29 22.00	6.2X
KUSJ	79.13	332 eP	21 37.50	5.2X		1.2s	10.06nm		5.1mb	SALJ	151.75	286 PKP	29 23.00	7.1X
SMY	80.76	354 P	21 50.00	9.2X	MEO	96.58	54 iPc	22 56.50	-0.8	KAS	151.78	306 iPKPc	29 22.70	7.1X
	Z 19s	2.55um		5.6Msz	RSSD	97.68	44 eP	23 00.07	-2.2	SHWJ	151.86	283 PKP	29 23.00	6.8X
ASAJ	80.83	332 P	21 43.00	1.6		0.9s	5.17nm		5.1mb	DSI	152.00	285 ePKP	29 22.70	6.6X
NVL	81.35	183 iPc	21 43.50	-0.3		Z 20s	0.32um		4.8Msz	EKA	152.26	8 PKPd	29 22.90	7.2X
	2.0s	75.00nm		5.3mb	CNCB	97.89	114 eP	23 05.00	0.6		1.3s	27.40nm		
SNA	81.91	178 iPc	21 47.20	0.6	LPB	97.95	113 P	23 04.70	0.3	ZNT	152.30	287 ePKP	29 23.90	7.3X
	1.2s	48.00nm		5.4mb	ZOBO	98.06	113 P	23 06.90	1.7	SAGI	152.57	282 ePKP	29 24.30	7.3X
BCH	82.45	44 (P)	21 46.80	-3.4X			SKS	33 48.00		CSS	153.55	293 ePKP	29 24.80	6.6X
SAO	82.70	42 P	22 00.00	8.7X			LR	55 38.00		CFR	153.84	318 ePKP	29 27.00	8.8X
	Z 19s	1.62um		5.4Msz	LZH	98.21	306 eP	23 05.50	0.7	VRI	154.29	320 ePKP	29 22.50	3.6X
ARN	83.05	41 eP	21 53.92	0.8		1.2s	25.00nm		5.6mb	OJC	154.48	335 ePKP	29 19.40	0.4
PLM	83.28	47 eP	21 54.65	0.0		Z 20s	0.60um		5.1Msz	MLR	154.95	320 ePKP	29 21.00	1.1
SSE	83.41	310 eP	21 55.50	0.5	MIAR	100.11	56 Pdiff	23 20.00	6.6X	KSP	155.13	340 ePKP	29 19.60	-0.2
	Z 22s	0.70um		5.0Msz		Z 19s	0.64um		5.1Msz		1.4s	62.00nm		
		pP	22 04.00	27kmX	YKA	102.76	25 ePdiff	23 34.50	10.0X			e	29 29.50	
		sP	22 14.80			0.9s	0.60nm			SPC	155.14	333 ePKP	29 20.70	0.6
PEC	83.43	46 eP	21 55.87	0.7	FVM	103.90	54 Pdiff	23 40.00	9.8X	CLL	155.57	345 ePKP	29 20.00	-0.4
	1.3s	33.70nm		5.2mb		Z 19s	0.92um		5.3Msz		1.7s	21.00nm		
KMPM	83.73	38 (P)	21 57.33	0.8	SLM	104.30	54 Pdiff	23 40.00	8.1X			e	29 46.00	
ISA	83.76	44 ePc	21 57.12	0.3		Z 20s	0.34um		4.9Msz	BRG	155.75	343 ePKP	29 20.60	-0.1
	1.6s	73.25nm		5.5mb	GOGA	107.28	61 PKP	28 00.00	5.8X		1.5s	18.00nm		
CMB	84.18	41 eP	21 59.02	0.2		Z 20s	0.54um		5.1Msz			e	29 33.20	
	1.3s	30.45nm		5.2mb	MBC	109.80	12 ePKP	27 57.00	-0.7			e	29 53.50	
		e	22 09.25		CEH	111.53	60 PKP	28 10.00	7.9X	WTS	155.86	355 ePKP	29 22.00	1.2
ORV	84.57	40 ePc	22 02.05	1.3		Z 21s	0.17um		4.6Msz		1.0s	11.50nm		
WDC	84.70	38 P	22 10.00	8.7X	MCWV	112.19	56 PKP	28 10.00	6.7X	PRU	156.40	342 ePKP	29 22.00	0.4
	Z 19s	0.98um		5.2Msz		Z 21s	2.37um		5.8Msz			e	29 49.60	
LGPM	84.77	38 eP	22 02.01	0.2	RSNY	117.34	52 PKP	28 20.00	7.0X			e	30 02.60	
LBFM	85.58	38 eP	22 06.32	0.3		Z 21s	0.36um		5.0Msz			e	33 36.00	
TPNV	85.96	44 eP	22 14.07	6.2X	SUR	117.72	197 e(PKP)	28 19.00	4.6X	MOX	156.50	347 ePKP	29 21.50	-0.2
	Z 19s	4.44um		5.9Msz		1.5s	80.00nm				1.5s	16.00nm		
TNP	86.09	43 eP	22 08.70	0.1	FRS	118.87	202 ePKP	28 12.00	-4.3X		Z 18s	0.40um		5.3Msz
	1.4s	55 68nm		5.5mb	HRV	118.99	55 PKP	28 30.00	13.8X			e	29 31.70	
TUC	86.69	51 eP	22 12.23	0.8		Z 18s	1.28um		5.6Msz			e	29 56.20	
	1.5s	78.40nm		5.7mb	PRY	120.69	205 ePKP	28 20.00	-0.1	SRO	157.01	334 ePKP	29 29.40	7.0X
PEL	87.16	126 iP+	22 13.60	-0.3		0.5s	12.00nm					e	29 53.30	
	1.1s	189.87nm		6.2mb	BFT	120.78	208 e(PKP)	28 22.00	1.6	ENN	157.15	356 ePKP	29 36.00	13.5X
SHW	88.75	34 (P)	22 18.89	-2.3	SLR	121.45	206 ePKP	28 20.50	-1.1		0.7s	5.80nm		
GMW	89.43	33 eP	22 24.38	0.2		1.2s	32.00nm			ZST	157.15	336 ePKP	29 22.30	-0.3
MSU	89.46	45 eP	22 23.16	-1.6	CBM	122.18	50 PKP	28 30.00	7.9X			e	30 05.80	
DUG	90.08	43 P	22 40.00	12.5X		Z 19s	0.89um		5.4Msz	KIC	157.18	159 PKP	29 22.40	-1.2
	Z 19s	0.77um		5.2Msz	FRB	122.70	30 ePKP	28 22.00	-0.5	KHC	157.45	342 ePKP	29 23.50	0.5
LTX	90.09	57 eP	22 26.00	-1.8		1.0s	7.00nm				Z 18s	0.70um		5.5Msz
SVW	90.40	10 (P)	22 29.11	0.7	BUL	126.28	210 iPKPd	28 30.30	-0.8		N 18s	0.30um		
	1.3s	24.86nm		5.4mb		1.0s	10.00nm				E 18s	0.40um		
SLKM	90.78	13 (P)	22 31.30	1.2	WIN	128.03	196 ePKP	28 35.00	0.6			e	29 55.40	
SRU	90.85	45 eP	22 30.97	-0.2	LSZ	130.72	212 iPKPc	28 44.00	4.4X			e	30 07.00	
HVU	91.07	42 eP	22 31.80	-0.2			i	30 58.00				e	33 46.50	
EMUT	91.08	45 (P)	22 33.70	1.4	MAIO	132.29	295 iPKPd	28 42.80	0.8	GRF	157.48	347 ePKP	29 22.60	-0.4

Z 21s 0.40um 5.2Msz
e 29 35.00
e 29 55.30
GEC2 157.67 342 PkP 29 23.30 0.0
1.7s 4.51nm
e 29 29.90
SOP 157.78 336 e(PKP) 29 35.00 11.6X
LDF 159.24 6 ePKP 29 26.10 1.2
1.6s 47.90nm
CDF 159.36 353 ePKP 29 24.00 -1.2
KBA 159.37 340 i(PKP) 29 29.00 3.6X
i 29 37.20
i 30 03.90
i 30 16.00
PTJ 159.50 334 ePKP 29 33.40 7.9X
WTTA 159.67 344 iPKPd 29 25.70 0.0
1.3s 35.00nm
i 30 05.10
SKO 159.68 318 ePKP 29 24.60 -1.1
1.5s 180.00nm
e 29 37.00
i 30 06.20
i 30 17.00
LJU 159.90 337 e(PKP) 29 24.50 -1.3
BSF 159.99 353 ePKP 29 25.10 -0.9
VBY 160.10 335 ePKP 29 26.30 0.3
VOY 160.13 338 e(PKP) 29 26.10 0.0
e 30 18.40
CEY 160.20 337 e(PKP) 29 22.00 -4.1X
TRI 160.46 338 e(PKP) 29 35.00 8.7X
e 30 18.60
OHR 160.58 317 ePKP 29 26.20 -0.5
1.6s 125.00nm
i 30 09.00
LOR 160.73 359 ePKP 29 26.30 -0.3
1.4s 20.50nm
Z 21s 0.70um
SSF 160.94 360 ePKP 29 26.50 -0.3
1.5s 26.10nm
LBF 161.01 359 ePKP 29 26.30 -0.6
1.3s 14.10nm
SMF 161.36 359 ePKP 29 26.70 -0.5
1.6s 22.40nm
TCF 161.70 2 ePKP 29 27.20 -0.4
1.8s 28.50nm
LSF 161.70 4 ePKP 29 27.10 -0.5
1.6s 25.50nm
ARV 162.67 336 PKP 29 40.50 11.8X
FRF 164.22 351 ePKP 29 29.60 -0.6
1.9s 31.20nm
LRG 164.36 352 ePKP 29 30.00 -0.3
1.5s 30.80nm
LMR 164.46 351 ePKP 29 29.70 -0.7
1.4s 10.90nm
PGF 164.74 344 ePKP 29 29.80 -1.0
1.4s 17.85nm
AVE 169.34 58 iPKP 29 35.50 1.2
i 29 47.00
TIO 170.31 70 ePKP 29 24.00 -11.1X
i 29 37.00
i 30 00.00
IFR 170.87 51 iPKP 29 37.00 1.7
i 29 49.00
S.D. = 1.0 on 123 of 196 obs.

? MAY 04, 1993 00h 33m 44.67± 4.09s
38.401 N ±20.1km 15.107 E ±13.5km
DEPTH = 86.5 ± 51.0 km
SICILY (398)

ATN 0.37 130 Pd 33 58.30 0.0
eSg 34 05.80
MNO 0.57 215 P 34 00.00 -0.1
eSg 34 12.00
SOI 0.82 113 Pd 34 02.40 0.2
eSg 34 16.10
CZI 1.14 44 P 34 05.90 -0.2
ACI 1.28 42 P 34 08.00 0.2
TDS 1.58 37 P 34 11.20 -0.5
ROI 1.63 44 P 34 12.10 -0.3
CSI 1.65 33 P 34 13.30 0.6
MGR 1.77 11 P 34 14.30 0.1
S.D. = 0.4 on 9 of 9 obs.

% MAY 04, 1993 01h 42m 35.79± 0.91s
39.379 N ± 6.7km 27.969 E ± 8.9km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
ML 2.8 (ISK).

KCT 0.92 19 iPg 42 53.00 -0.4
EDC 0.97 355 iPg 42 54.00 -0.2
eSg 43 07.00
BNT 0.98 358 iPg 42 54 00 -0.3
eSg 43 07.00
IZM 1.12 210 iPn 42 56.60 -0.3
KGT 1.19 335 iPn 42 58.00 0.1
EZN 1.35 290 ePn 43 01.00 0.5
YLV 1.60 42 ePn 43 05.00 0.7
S.D. = 0.5 on 7 of 7 obs.

? MAY 04, 1993 02h 23m 18.19± 3.06s
16.443 N ±60.6km 39.675 E ±29.7km
DEPTH = 10.0km (geophysicist)
4.3mb (8 obs.)
ETHIOPIA (558)

SOI 29.93 321 P 29 31.20 2.6
CZI 30.62 322 P 29 30.20 -4.5X
MNO 30.68 319 P 29 19.00 -16.5X
ZST 36.68 335 eP 30 28.80 1.8
GEC2 38.64 332 P 30 44.50 1.0
KHC 38.91 333 eP 30 46.50 0.8
LPG 39.96 323 eP 30 55.70 0.9
LPL 39.98 323 eP 30 54.90 0.0
GRF 40.37 331 eP 30 57.50 -0.3
CLL 40.78 334 eP 31 01.00 -0.1
MOX 40.88 333 eP 31 03.60 1.7
1.4s 10.00nm 4.3mb
BSF 41.34 326 eP 31 05.30 -0.5
1.0s 6.60nm 4.3mb
CDF 41.44 327 eP 31 06.20 -0.5
1.0s 3.80nm 4.1mb
LBF 42.39 324 eP 31 13.30 -1.1
1.2s 14.00nm 4.6mb
LOR 42.61 324 eP 31 15.10 -1.1
0.9s 6.70nm 4.4mb
AVF 42.64 323 eP 31 15.90 -0.5
SSF 42.70 323 eP 31 15.70 -1.2
1.1s 5.60nm 4.2mb
BGF 42.81 323 eP 31 17.00 -0.8
NUR 45.33 350 eP 31 38.00 0.1
APO 47.79 343 eP 31 55.70 -1.7
0.6s 1.70nm 4.3mb
NB2 48.98 342 P 32 04.80 -1.8
0.9s 4.50nm 4.5mb
CHG 56.31 78 eP 33 02.40 0.5
S.D. = 1.3 on 20 of 22 obs.

% MAY 04, 1993 03h 35m 29.01± 0.85s
44.459 N ± 6.7km 7.478 E ± 7.6km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.9 (GEN).

ENR 0.24 190 P 35 34.44 0.3
S 35 38.88
STV 0.24 207 P 35 34.21 0.0
S 35 38.51
PZZ 0.27 280 P 35 35.13 0.3
S 35 40.21
ROB 0.33 120 P 35 36.68 0.9
S 35 42.27
BH8 0.41 338 P 35 37.16 -0.3
S 35 43.23
IMI 0.62 152 P 35 40.40 -1.2
S 35 48.45
S.D. = 0.9 on 6 of 6 obs.

? MAY 04, 1993 03h 53m 36.89± 1.04s
40.935 N ±16.7km 14.623 E ±17.3km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO 0.64 126 P 53 48.40 -1.3
DUI 0.74 350 P 53 57.00 5.6X
eSg 54 10.00
SDI 0.98 322 P 53 55.00 -0.6
eSg 54 09.00
MGR 1.07 138 P 53 56.80 -0.2
eSg 54 12.00
AQU 1.69 328 P 54 07.00 0.4
CSI 1.72 132 P 54 18.40 11.3X
TDS 1.83 134 P 54 10 00 1.4
ROI 2.02 132 P 54 22.30 10.9X
CZI 2.07 145 P 54 25.50 13.4X
OHR 4.68 86 e(Pn) 54 49.50 0.3
S.D. = 1.2 on 6 of 10 obs.

& MAY 04, 1993 03h 57m 35.78s
36.569 N 121.158 W
DEPTH = 4.6km
CENTRAL CALIFORNIA (39)
<GM-P>. MD 3.1 (GM).

SAO 0.30 310 ePc 57 41.73 -0.2
COE 0.80 329 ePc 57 52.09 0.3
eS 58 04.35
ARN 0.83 339 ePc 57 52.57 0.1
eS 58 04.89
PHAM 0.96 140 eP 57 53.43 -1.1
PKEM 0.99 121 eP 57 55.12 0.1
JEGM 1.41 312 eP 57 59.69 -2.4
CMB 1.59 23 eP 58 03.68 -1.0
eS 58 25.97
BCH 1.63 147 ePd 58 03.49 -1.9
HMR 1.66 342 eP 58 05.57 -0.2
MMPM 2.00 58 (P) 58 08.17 -2.7
MEMM 2.08 58 (P) 58 12.60 0.8
NTYM 2.18 327 eP 58 10.90 -2.2
ISA 2.35 112 eP 58 14.65 -1.2
MRCM 2.39 62 (P) 58 16.94 0.5
eS 58 49.16
ORV 2.99 355 eP 58 24.18 -0.6
KVN 3.46 43 (Pn) 58 31.95 0.2
ePg 58 41.41
TNP 3.48 63 ePg 58 38.98 7.0
SSK 3.68 129 eP 58 34.13 -0.7
PEC 4.22 128 (Pn) 58 41.23 -1.1
ePg 5B 50.19
19 obs. ossociated

% MAY 04, 1993 04h 33m 41.20± 1.48s
45.364 S ± 5.7km 167.401 E ±13.2km
DEPTH = 10.0km (geophysicist)
SOUTH ISLAND, NEW ZEALAND (162)
ML 4.0 (WEL).

BCZ 0.71 155 P 33 55.40 0.2
MSZ 0.78 28 P 33 57.80 1.4
S 34 08.10
TLC 1.19 82 P 34 03.30 -0.2
CMCZ 1.34 81 P 34 05.90 -0.1
S 34 22.00
MHZ 1.36 78 P 34 06.40 0.1
SBCZ 1.38 79 P 34 06.50 0.0
LRCZ 1.41 78 P 34 07.20 0.2
LSCZ 1.41 81 P 34 07.10 0.1
MSCZ 1.45 80 P 34 08.10 0.6
SIZ 1.60 162 P 34 09.30 -0.2
TUZ 1.67 112 P 34 10.70 0.1
S 34 30.70
BWZ 1.95 66 P 34 15.50 0.9
ODZ 2.32 83 P 34 19.90 -0.1
EWZ 3.09 54 P 34 30.60 -0.2
LTZ 4.35 55 eP 34 47.10 -1.8
DSZ 4.83 43 eP 34 54.70 -1.0
S.D. = 0.8 on 16 of 16 obs.

MAY 04, 1993 04h 51m 06.03± 0.78s
56.017 N ± 7.8km 135.562 W ± 6.9km
DEPTH = 10.0km (geophysicist)
3.9mb (2 obs.)
SOUTHEASTERN ALASKA (19)
ML 3.9 (PGC), 3.4 (AEIC). Felt
(IV) at Port Alexander.

SIT 1.05 7 iPd 51 25.09 -0.7
(S) 51 32.79
LIB 2.28 140 Pn 51 44.20 0.0
TCBC 3.02 49 Pn 51 54.00 -0.9
PLBC 3.48 353 Pn 52 02.60 1.4
Sn 52 46.00
WHC 4.74 3 Pn 52 18.86 -0.4
Sn 53 11.40
Sg 53 36.05
HYT 4.93 349 Pn 52 22.50 0.5
YAH 5.45 326 eP 52 30.27 0.8
S 53 33.08
CYK 5.49 321 eP 52 32.13 2.4X
CTGM 5.81 331 iP 52 34.95 0.5

04d 04h

		eS	53 39.59		
TGL	6.10	324 eP	52 38.03	-0.4	
BALM	6.16	328 eP	52 39.32	0.0	
		eS	53 47.34		
CROM	6.20	323 eP	52 39.24	-0.7	
MID	6.71	305 P	52 45.00	-1.9X	
GLB	6.93	325 eP	52 48.56	-1.5X	
HIN	7.25	312 eP	52 52.61	-2.0X	
BDBC	7.43	83 Pn	52 57.50	0.4	
		Sg	55 04.00		
VLZ	7.61	317 eP	52 58.78	-0.7	
KLU	7.69	320 eP	52 58.65	-2.0X	
DAWY	8.30	348 Pn	53 08.35	-0.9	
		Sn	54 37.18		
		Sg	55 26.02		
SML	8.79	317 eP	53 14.18	-1.8X	
PMS	8.98	311 eP	53 16.43	-2.2X	
SPU	10.03	308 eP	53 30.27	-2.9X	
SKT	10.16	313 eP	53 32.83	-2.1X	
INK	12.37	4 eP	54 06.00	1.2	
YKA	12.49	50 eP	54 04.00	-2.5X	
	0.9s	1.80nm		4.3mb	
IMA	13.30	327 eP	54 17.16	-0.1	
	0.6s	3.13nm		4.6mb X	
MBC	21.18	11 eP	55 58.00	4.8X	
	1.0s	2.00nm		3.5mb	
SRU	23.70	125 (P)	56 36.08	17.4X	

S.D. = 0.8 on 16 of 28 obs.

% MAY 04, 1993 05h 19m 03.29± 5.34s
43.395 N ±33.6km 19.798 E ±20.8km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 2.0 (TTG).

PLE	0.30	258 iPgc	19 08.90	-0.7	
		iSg	19 14.62		
IVA	0.53	172 iPgd	19 13.37	-0.6	
		iSg	19 22.82		
PVY	0.81	171 iPgc	19 18.58	-0.5	
		iSg	19 32.03		
NKY	0.83	225 iPgc	19 19.00	-0.3	
		iSg	19 32.96		
BRY	1.04	242 iPgc	19 22.61	-0.5	
		iSg	19 39.53		
TTG	1.04	202 iPgc	19 23.11	0.2	
		iSg	19 40.37		
BDV	32	213 iPgd	19 28.17	0.5	
		iSg	19 49.47		
HCY	1.34	226 iPgd	19 28.56	0.5	
		iSg	19 50.20		
ULC	1.49	196 iPnc	19 31.34	1.3	
		iSn	19 54.96		

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

MAY 04, 1993 05h 53m 36.41± 0.34s
44.214 N ± 4.5km 9.995 E ± 3.0km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.8 (LDG).

BDI	0.46	109 P	53 44.90	-0.9	
		eSg	53 51.80		
PII	0.62	142 P	53 49.20	0.3	
		eSg	54 00.10		
BOB	0.68	325 P	53 48.90	-1.0	
		eSg	53 59.30		
PCP	1.09	288 P	53 57.43	0.5	
		S	54 11.97		
CKI	1.25	280 P	53 59.30	-0.3	
		eSg	54 17.50		
FIN	1.28	270 P	54 00.04	-0.2	
		S	54 16.33		
PGD	1.29	105 P	54 01.00	0.6	
		eSg	54 19.00		
SFI	1.37	102 P	54 01.00	-0.5	
		eSg	54 20.00		
ROB	1.53	274 P	54 03.97	0.1	
		S	54 23.39		
CRE	1.53	112 P	54 05.40	1.5	
		eSn	54 23.00		
IMI	1.55	259 P	54 03.88	-0.2	
		S	54 23.23		
MDI	1.58	353 P	54 05.40	1.0	
		eSn	54 23.00		
PGF	1.82	204 Pn	54 08.60	0.6	
		Sn	54 31.10		
ENR	1.85	271 P	54 07.95	-0.6	
SBF	1.88	260 Pn	54 09.50	0.6	
		Sn	54 32.50		
STV	1.92	272 P	54 08.67	-0.9	
		S	54 31.67		
DOI	1.99	279 P	54 10.40	-0.2	
ORO	2.01	315 P	54 11.00	0.1	
BHB	2.05	289 P	54 10.03	-1.4	
PZZ	2.10	279 P	54 11.25	-0.9	
RSP	2.17	297 P	54 10.82	-2.3	
CTI	2.18	32 P	54 12.00	-1.3	
LSD	2.37	303 P	54 15.26	-1.0	
RRL	2.40	288 P	54 17.14	0.5	
FRF	2.51	256 Pn	54 17.80	-0.1	
		Sn	54 46.80		
LPG	2.64	300 Pn	54 21.10	1.0	
LPL	2.66	300 Pn	54 21.90	1.6	
LMR	2.67	252 Pn	54 19.80	-0.5	
		Sn	54 51.90		
LRG	2.74	255 Pn	54 21.00	-0.2	
		Sn	54 54.10		
VOY	3.30	55 e(Pn)	54 28.40	-0.9	
		e(Sn)	55 05.70		
BSF	4.25	329 Pn	54 43.90	1.2	
HAU	4.56	328 Pn	54 46.90	-0.2	
		Sn	55 38.70		
LBF	5.05	305 Pn	54 55.50	1.5	
LOR	5.27	308 Pn	54 57.90	0.8	
AVF	5.33	301 Pn	54 59.40	1.4	

S.D. = 1.0 on 35 of 35 obs.

MAY 04, 1993 05h 55m 57.48± 0.49s
44.225 N ± 6.6km 10.029 E ± 4.5km
DEPTH = 8.5 ± 3.4 km
NORTHERN ITALY (545)
ML 2.5 (LDG).

BORS	0.15	278 P	56 01.91	1.1	
		S	56 05.15		
BDI	0.44	111 P	56 06.70	0.3	
		eSg	56 13.40		
PII	0.62	144 P	56 10.40	0.5	
		eSg	56 20.00		
BOB	0.68	323 P	56 10.50	-0.7	
		eSg	56 20.80		
PCP	1.11	287 P	56 18.38	-0.1	
		S	56 33.27		
PGD	1.27	105 P	56 22.50	1.2	
CKI	1.27	280 P	56 20.90	-0.3	
FIN	1.31	270 P	56 21.32	-0.5	
		S	56 38.55		
CRE	1.51	113 P	56 23.00	-1.9	
		eSg	56 45.00		
ROB	1.55	273 P	56 24.90	-0.5	
MDI	1.57	352 P	56 23.00	-2.5	
IMI	1.57	259 P	56 25.22	-0.5	
PGF	1 84	204 Pn	56 30.00	0.4	
		Sn	56 52.60		
ENR	1.88	271 P	56 29.86	-0.3	
SBF	1.91	260 Pn	56 30.90	0.3	
		Sn	56 55.50		
STV	1.94	272 P	56 31.32	0.2	
BHB	2.07	288 P	56 33.43	0.5	
PZZ	2.12	279 P	56 33.35	-0.4	
RSP	2.18	296 P	56 33.19	-1.5	
LSD	2.39	302 P	56 37.74	0.1	
FRF	2.53	256 Pn	56 39.20	-0.3	
		Sn	57 07.60		
LPG	2.66	300 Pn	56 43.30	1.8	
LPL	2.68	300 Pn	56 42.80	1.0	
LMR	2.70	252 Pn	56 41.70	-0.2	
		Sn	57 13.00		
LRG	2.76	255 Pn	56 43.60	0.8	
		Sn	57 15.60		
HAU	4.57	327 Pn	57 11.10	2.7	
		Sn	57 59.30		
LBF	5.06	305 Pn	57 16.50	1.0	

S.D. = 1.2 on 27 of 27 obs.

MAY 04, 1993 06h 26m 22.79± 0.36s
44.239 N ± 4.8km 10.023 E ± 3.3km
DEPTH = 11.2 ± 2.5 km
NORTHERN ITALY (545)
ML 2.7 (LDG).

BORS	0.14	273 P	26 26.83	0.6	
		S	26 29.90		
BDI	0.45	113 P	26 31.50	-0.5	
		eSg	26 38.10		
PII	0.63	145 P	26 35.40	0.1	
		eSg	26 46.00		
BOB	0.67	322 P	26 35.10	-0.9	
		eSg	26 45.10		
PCP	1.10	286 P	26 43.64	0.2	
		S	26 57.78		
CKI	1.26	279 P	26 45.40	-0.8	
		eSg	27 03.00		
PGD	1.28	106 P	26 47.00	0.5	
FIN	1.31	269 P	26 46.52	-0.3	
		S	27 03.82		
SFI	1.36	103 P	26 47 00	-0.5	
CRE	1.52	113 P	26 51.80	1.8	
		eSg	27 11.00		
ROB	1 55	273 P	26 50.00	-0.3	
		S	27 09.63		
MDI	1.55	352 P	26 50.00	-0.3	
		eSg	27 10.00		
IMI	1.57	259 P	26 50.09	-0.6	
		S	27 09.78		
PGF	1.85	204 Pn	26 54.40	-0.3	
		Sn	27 17.10		
ENR	1.87	271 P	26 55.49	0.4	
SBF	1.90	260 Pn	26 55.70	0.2	
		Sn	27 18.40		
STV	1.94	271 P	26 54.57	-1.5	
ORO	2.01	314 P	26 57.00	0.0	
BHB	2.06	288 P	26 57.32	-0.5	
PZZ	2.11	278 P	26 57.37	-1.2	
CTI	2.14	32 P	26 57.00	-2.0	
RSP	2.17	296 P	26 58.75	-0.7	
LSD	2.38	302 P	27 02.62	0.1	
RRL	2.41	288 P	27 03.54	0.6	
FRF	2.53	256 Pn	27 04.00	-0.5	
		Sn	27 33.30		
LPG	2.65	300 Pn	27 07.90	1.5	
LPL	2.67	300 Pn	27 08.20	1.6	
LMR	2.70	252 Pn	27 06.20	-0.7	
		Sn	27 36.50		
LRG	2.76	255 Pn	27 07.70	0.0	
		Sn	27 39.40		
HAU	4.55	327 Pn	27 34.10	1.0	
		Sn	28 24.50		
LBF	5.05	305 Pn	27 41.30	1.0	

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

• MAY 04, 1993 06h 44m 14.61± 1.44s
37.940 N ± 8.2km 9.123 W ±13.7km
DEPTH = 5.0km (geophysicist)
PORTUGAL (376)
mbLg 3.2 (MDD).

LIS	0.78	358 eP	44 27.30	-2.8	
		iS	44 33.30		
EVAL	1.92	100 ePn	44 48.10	-0.1	
		eSn	45 14.80		
EHOR	3.07	91 ePn	45 04.50	-0.1	
		eSn	45 42.00		
EPLA	3.18	47 iPnd	45 08.00	1.7	
		eSn	45 47.20		
EPRU	3.25	106 iPnc	45 06.50	-0.7	
		eSn	45 45.50		
EJIF	3.27	116 ePn	45 06.50	-1.1	
		eSn	45 45.80		
ELUO	3.87	94 ePn	45 16.00	-0.1	
		eSn	46 02.00		
ECOG	4.46	97 ePn	45 24.00	-0.6	
		eSn	46 15.50		
EGUA	4.56	102 ePn	45 25.30	-0.6	
		eSn	46 17.20		
ERUA	4.70	18 ePn	45 29.20	1.4	
		eSn	46 25.20		
GUD	4.71	53 ePn	45 29.50	1.4	
		eSn	46 23.90		
STS	4.96	5 ePn	45 31.90	0.4	
		eSn	46 30.50		
ETOR	6.18	60 ePn	45 48.90	0.0	
		eSn	47 00.00		
TIO	7.16	167 iPg	46 04.00	1.3	
		iSg	47 22.50		

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

MAY 04, 1993 06h 46m 08.15± 0.57s
38.815 N ± 4.8km 29.412 E ± 8.2km
DEPTH = 10 0km (geophysicist)

TURKEY (366)
ML 3.3 (ISK).

KHL	0.50	170	ePg	46 18.40	0.1
			iSg	46 26.40	
ALT	0.59	66	iPg	46 19.60	-0.7
			eSg	46 29.60	
CIN	1.60	221	eP	46 34.00	-2.5
GPA	1.63	25	ePn	46 37.00	0.0
YLV	1.75	359	iPn	46 37.80	-1.0
EYL	1.84	18	ePn	46 40.00	-0.1
YER	1.90	208	ePn	46 42.00	1.0
HRT	2.01	6	iPn	46 43.30	0.7
ELL	2.10	169	ePn	46 45.00	1.1
CTT	2.45	342	iPn	46 49.80	1.0
EZN	2.60	294	ePn	46 51.50	0.6
DMK	3.26	338	ePn	47 00.00	-0.3

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

? MAY 04, 1993 06h 47m 54.13± 2.62s
15.191 N ±38.3km 39.900 E ±13.3km
DEPTH = 10.0km (geophysicist)
4.1mb (3 obs.)

ETHIOPIA (558)

ABHA	4.09	42	eP	48 58.67	0.4
DHJN	4.23	54	eP	49 00.00	-0.4
GEC2	39.85	333	P	55 30.70	1.2
	1.0s		3.21nm		4.0mb
DMN	43.64	66	P	56 11.40	10.3X
KKN	43.81	66	P	56 10.20	7.8X
PKI	43.90	66	P	56 09.00	5.7X
GUN	44.36	66	P	56 07.20	0.2
HFS	48.78	343	eP	56 39.90	-1.1
	0.4s		0.90nm		4.1mb
NB2	50.23	342	P	56 51.80	-0.4
	0.9s		3.70nm		4.3mb

S.D. = 1.0 on 6 of 9 obs.

MAY 04, 1993 06h 48m 23.55± 0.16s
9.669 N ± 2.9km 125.303 E ± 4.3km
DEPTH = 39.2km (14 depth phases)
5.4mb (48 obs.) 4.6Msz (14 obs.)

MINDANAO, PHILIPPINE ISLANDS (259)
Mw 5.2 (HRV).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 18S, 20C
Centroid Location:
Origin Time 06:48:22.8 0.6
Lat 9.73N 0.06 Lon 125.42E 0.08
Dep 27.2 4.9 Half-duration 1.1
Moment Tensor; Scale 10**16 Nm
Mrr= 6.03 0.33 Mtt=-2.81 0.45
Mff=-3.22 0.42 Mrt= 2.42 1.17
Mrf=-2.66 1.64 Mtf= 1.99 0.40
Principal Axes:
T Val= 7.10 Plg=73 Azm= 47
N -1.02 0 138
P -6.08 17 228
Best Double Couple:Mo=6.6*10**16
NP1:Strike=318 Dip=28 Slip= 90
NP2: 138 62 90

CGP	1.35	207	iPc	48 44.80	-1.4
			iS	48 50.00	
PLP	1.52	348	iPc	48 50.00	1.3
DAV	2.58	174	eP	49 06.00	2.1
CTB	2.69	204	ePd	49 06.00	0.6
PGP	5.72	312	ePd	49 53.00	4.7X
QCP	6.44	320	eP	50 18.00	19.6X
OVP	6.47	320	eP	50 03.00	4.1X
PPR	6.48	271	iPd	49 55.00	-4.0X
			iS	50 41.00	
BCP	8.12	326	eP	50 26.40	4.3X
BAG	8.13	326	eP	50 22.00	-0.2
MNI	8.19	183	eP	50 30.50	7.7X
CVP	8.67	337	eP	50 30.00	0.4
KKM	9.70	249	ePc	50 48.90	5.1X
	0.6s		35.10nm		5.7mb
GUMO	19.55	77	(P)	52 52.58	1.5
KHKI	20 35	209	eP	52 58.00	-1.5
			e	55 24.80	
SSE	21.66	350	Pc	53 15.50	2.8
	1.3s		82.00nm		5.0mb
Z	20s		1.40um		4.4Msz
N	18s		1.40um		

			i	53 43.50	143kmX
			S	57 08.00	
			sS	57 16.00	
MTN	23.11	165	eP	53 27.50	0.4
	0.5s		100.00nm		5.6mb
KGM	23.14	252	ePc	53 27.60	0.1
PCT	23.87	284	eP	53 36.00	1 5
LEM	24.06	228	iPd	53 38.30	1.7
LOE	24.15	291	eP	53 39.10	1.8
IPM	24.61	260	ePc	53 42.00	0.3
	0.8s		86.00nm		5.4mb
NST	25.26	286	eP	53 48.00	0.1
KNA	25.49	172	eP	53 49.80	-0.2
	0.8s		115.00nm		5.5mb
TKSJ	25.50	17	P	53 50.40	0.4
WKYJ	26.20	20	P	53 56.70	0.2
KMI	26.39	308	Pd	53 59.50	0.9
	1.0s		80.00nm		5.3mb
Z	18s		1.50um		4.6Msz
N	14s		0.70um		
E	12s		0.40um		
			pP	54 11.00	44km
			eS	58 23.50	
YONJ	26.47	15	P	53 58.90	-0.1
KHT	26.58	284	eP	54 02.30	2.1
CHG	27.08	293	ePc	54 04.70	-0.1
	1.0s		12.75nm		4.5mb
TSRJ	27.53	19	P	54 08.20	-0.4
PMG	28.85	130	eP	54 20.00	-0.7
MAJO	29.20	22	eP	54 21.62	-2.1
	0.8s		13.55nm		4.7mb
MAT	29.20	22	eP	54 21.00	-2.7
	1.1s		16.46nm		4.6mb
Z	20s		1.06um		4.5Msz
			eS	59 16.00	
WRA	30.74	163	P	54 36.20	-1.3
	0.9s		12.60nm		4.7mb
WB2	30.75	163	iPd	54 35.90	-1.7
	0.8s		10.40nm		4.7mb
			i	54 49.00	51kmX
			ePP	56 36.10	
			eS	00 14.50	
MBL	31.10	190	eP	54 37.00	-3.7X
LZH	32.74	327	Pc	54 55.00	-0.1
	1.4s		53.00nm		5.2mb
N	15s		0.95um		
			pP	55 08.50	53kmX
			sP	55 17.50	
			PP	56 23.50	
OFUJ	32.74	24	eP	54 55.10	0.2
ASPA	34.18	166	iPc	55 06.60	-0.9
	0.7s		54.80nm		5.6mb
WARB	35.66	178	eP	55 19.50	-0.6
	0.5s		37.00nm		5.6mb
CTA	36.05	145	P	55 25.00	1.5
MEEK	36.67	190	eP	55 27.00	-1 6
KUSJ	37.37	24	eP	55 36.10	1 9
ASAJ	37.47	21	P	55 36.60	1.4
MRWA	39.69	193	iPc	55 53.50	-0.3
FORT	40.30	176	eP	55 58.70	-0.1
	0.5s		33.00nm		5.4mb
OLP	40.46	153	eP	56 00.00	-0.2
COOL	40.52	186	eP	55 59.50	-1.1
BAL	40.89	191	eP	56 02.00	-1.6
KLB	41.66	190	eP	56 13.00	3.0X
MUN	42.32	192	iPd	56 14.20	-1.2
GKN	42.33	301	P	56 15.20	-0.6
RMQ	42.55	148	eP	56 17.50	0.1
NWAO	43.05	190	iPd	56 20.80	-0.5
STK	44.16	160	eP	56 30.60	0.3
	0.6s		26.70nm		5.2mb
			i	58 16.60	600kmX
RKG	44.69	190	eP	56 37.20	2.6
IRK	45.79	342	eP	56 41.80	-1.4
	1.6s		16.00nm		4.7mb
Z	20s		0.70um		4.6Msz
			e	57 00.00	73kmX
			e	57 27.00	
			LR	17 00.00	
HYB	46.00	285	ePd	56 45.50	0.2
	1.0s		40.00nm		5.3mb
			e	56 56.00	36km
ADE	46.17	165	iPc	56 47.50	1.1
GBA	46.99	280	Pd	56 53.20	0.1
	0.8s		11.00nm		4.9mb
ARMA	47.21	149	iPd	56 56.30	1 5
	0.5s		10.00nm		5.1mb

			e	58 42.20	584kmX
BWA	49.03	155	eP	57 10.70	2.0
			ipP	57 21.00	35km
CAN	50.04	155	iPc	57 16.90	0.4
			epP	57 29.00	43km
			iPcP	58 50.90	
CNB	50.19	154	iPc	57 18.70	1.0
	0.7s		45.00nm		5.6mb
BKM	50.37	123	iPd	57 20.00	0.8
TOO	50.65	159	iPc	57 22.10	1.0
	0.8s		58.00nm		5.6mb
DZM	51.21	128	iPc	57 26.10	0.4
YAK	52.35	3	iPd	57 32.90	-0.7
	1.0s		121.00nm		5.8mb
			e(S)	04 54.00	
SMY	58.17	33	eP	58 16.28	0.5
	0.8s		79.07nm		5.9mb
ADK	62.95	36	eP	58 48.10	-0.3
	0.7s		52.60nm		5.8mb
MAIO	64.87	306	eP	59 02.00	0.6
THZ	67.25	143	eP	59 15.60	-0.8
			e	59 25.50	32km
URZ	67.85	138	eP	59 19.70	-0.4
KHZ	68.03	143	eP	59 20.10	-1.0
			e	59 29.50	30km
SDN	73.12	35	eP	59 51.19	-0.5
	0.7s		188.61nm		6.2mb
OPA	74.19	70	(P)	59 56.61	-1.9
HON	74.22	71	P	00 10.00	11.2X
Z	20s		0.24um		4.5Msz
TTA	76.30	28	iPc	00 10.54	0.6
	0.8s		19.11nm		5.1mb
SVW	76.31	29	iPc	00 10.96	0.9
	0.7s		40.01nm		5.5mb
BRW	77.04	19	eP	00 13.89	0.1
			e	00 26.41	42km
IMA	77.58	24	iPc	00 17.65	0.5
	0.9s		46.98nm		5.5mb
			e	00 28.09	33km
RSO	77.68	30	ePc	00 17.47	-0.3
KDC	77.73	33	eP	00 18.40	0.6
CRP	78.00	29	eP	00 19.38	-0.1
SLKM	78.93	30	ePc	00 23.61	-0.9
DHJN	79.39	286	eP	00 28.53	0.4
PMR	79.46	29	iPd	00 26.87	-0.3
	1.1s		134.32nm		5.8mb
Z	20s		0.34um		4.7Msz
FBA	80.00	26	eP	00 29.45	-0.7
	1.1s		26.58nm		5.1mb
ABHA	80.02	287	eP	00 32.67	1.2
KLU	81.00	29	iPc	00 35.96	0.4
			e	00 48.06	40km
OBN	81.41	324	iPc	00 36.90	-0.8
	1.4s		114.00nm		5.7mb
Z	20s		0.40um		4.8Msz
E	20s		0.40um		
BALM	82.76	29	ePd	00 45.61	0.8
KEV	83.86	340	eP	00 50.00	-0.1
HRI	84.41	303	eP	00 54.30	0.5
SDF	84.55	337	iP	00 53.80	0.1
KAS	84.84	311	iPc	01 06.20	10.5X
JVI	84.92	301	eP	00 56.60	0.3
INK	85.19	21	ePc	00 58.50	1.7
	1.0s		49.00nm		5.6mb
KAF	85.71	332	iP	00 58.60	-0.9
	0.9s		67.90nm		5.9mb
SAGI	85.76	300	eP	01 00.40	-0.1
CSS	86.14	305	eP	01 02.20	-0.1
MBC	86.50	13	ePc	01 03.50	0.3
	1.0s		39.00nm		5.6mb
NUR	86.86	331	eP	01 04.50	-0.6
SIT	87.02	33	(P)	01 10.20	4.2X
VRI	89.05	316	ePc	01 16.50	0.5
MLR	89.67	316	ePc	01 18.90	-0.2
UPP	90.40	331	iP	01 21.50	-0.5
DAG	91.23	352	eP	01 22.90	-2.7
	1.1s		17.72nm		5.4mb
HFS	92.14	332	eP	01 28.00	-2.0
	0.6s		5.20nm		5.1mb
Z	18s		0.19um		4.6Msz
			LR	42 50.00	
OJC	92.37	322	eP	01 31.00	-0.3
	1.1s		36.00nm		5.7mb
NB2	92.87	334	P	01 31.70	-1.8
	1.0s		14.00nm		5.3mb
VAY	93.09	313	iP	01 33.40	-1.4
SKO	93.73	313	iP	01 37.00	-0.7

04d 07h

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                  i      01 50.50   45km
KSP     94.28 323 iPd    01 40.10    0.0
OHR     94.43 313 eP     01 39.20   -1.9
VRAC    94.64 322 eP     01 41.80    0.1
        1.4s    151.40nm          6.2mb
YKA     94.69  24 P      01 42.20    0.5
        1.0s     23.00nm          5.6mb
ZST     94.71 320 eP     01 41.60   -0.5
PRU     95.63 323 Pd     01 46.30    0.0
     Z  20s      0.40um          4.9Msz
     N  20s      0.10um
     E  20s      0.30um
                  e      01 58.30   39km
BRG     95.65 324 iPd    01 46.40    0.0
        1.1s     23.00nm          5.6mb
CLL     96.02 324 iPd    01 47.80   -0.3
        1.3s     19.00nm          5.4mb
KHC     96.54 322 P      01 50.50    0.0
        1.0s      7.00nm          5.1mb
                  e      02 02.90   40km
                  e      06 02.50
GEC2    96.58 322 P      01 50.60   -0.2
        0.9s     11.17nm          5.4mb
                  e      02 03.30   42km
VBY     96.84 318 eP     01 51.80   -0.1
MOX     97.09 324 ePd    01 53.10    0.2
        1.6s     21.00nm          5.4mb
     Z  21s      0.40um          4.9Msz
KBA     97.48 320 iPc    01 53.70   -1.3
        1.3s     10.00nm          5.2mb
GRF     97.72 323 ePKPc  01 55.70   -0.1
     Z  18s      0.40um          5.0Msz
                  e      02 09.50   46km
WTTA    98.48 321 iPc    01 58.50   -1.0
        1.1s     23.20nm          5.6mb
DPW     99.95  38 ePDIF  02 06.83    0.8
FCC    104.76  20 ePdiff 02 30.00    3.1X
FRB    106 04   6 ePdiff 02 33.00    0.5
GOL    112 08  40 PKP    07 10.00   12.8X
     Z  19s      0.30um          4.9Msz
LTX    118.94  49 ePKP   07 08.13   -2.2X
UYO    122.36  39 iPKPd  07 16.10   -0.5
MIAR   122.64  38 iPKP   07 17.40    0.3
     Z  19s      0.14um          4.6Msz
RSNY   123.13  17 PKP    07 30.00   12.3X
     Z  21s      0.12um          4.5Msz
KIC    127.74 286 PKP    07 27.00   -0.6
TIC    127.92 286 PKP    07 27.40   -0.5
LIC    128.06 286 PKP    07 27.60   -0.6
PEL    152.38 150 iPKPd  08 18.10    7.7X
TCA    156.56 158 e(PKP) 08 20.50    4.3X
CNCB   165.25 120 PKP    08 28.00    1.7
LPB    165.28 119 PKP    08 26.00   -0.1
ZOBO   165.37 118 PKP    08 27.20    0.8
        1.1s     9.28nm
PPD    167.29 194 ePKP   08 27.40    0.3
                  e      08 40.80
     S.D. = 1.0  on 128 of 146 obs.
-------------------------------------
?  MAY  04, 1993  07h 02m 56.19± 7.80s
   34.354 S ±56.6km   70.508 W ±36.3km
   DEPTH =  29.6 ± 10.2 km
 CHILE-ARGENTINA BORDER REGION    (127)
      MD 3.4 (SAN).

CHCH    0.44 344 iP      03 04.44   -1.2
                 iS      03 13.33
PCH     0.73 360 iP      03 09.14   -1.3
                 iS      03 21.42
TACH    0.79 333 iP      03 10.52   -0.6
                 iS      03 24.02
LNV     0.85 298 iP      03 11.32   -0.6
                 iS      03 25.76
FCH     1.04  10 iP      03 14.21   -0.9
                 iS      03 30.17
PEL     1.22 353 iP      03 17.73    0.4
                 iS      03 36.38
LCCH    1.24 314 iP      03 18.34    0.7
                 iS      03 38.02
ROCH    1.44 343 iP      03 21.73    1.0
                 iS      03 43.72
JACH    1.67 358 iP      03 25.14    1.2
                 iS      03 49.54
     S.D. = 1.2  on   9 of   9 obs.
-------------------------------------
%  MAY  04, 1993  07h 10m 07.17± 0.92s
   39.235 N ±10.5km   27.955 E ±11.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 2.9 (ISK).

IZM     1.00 213 iPg     10 25.80   -0.3
                 eSg     10 40.80
KCT     1.06  17 iPn     10 26.30   -0.8
EZN     1.39 296 ePn     10 33.00    0.4
YLV     1.72  39 iPn     10 37.80    0.4
EYL     2.15  51 ePn     10 44.00    0.3
     S.D. = 0.8  on   5 of   5 obs.
-------------------------------------
*  MAY  04, 1993  07h 54m 07.25± 0.82s
   63.189 N ± 8.0km   151.414 W ±10.0km
   DEPTH =  33.0km  (normal)
 CENTRAL ALASKA                   (  1)
      ML 2.7 (PMR).

PWA     1.70 154 eP      54 36.60    1.6
PMR     1.92 145 eP      54 38.50    0.3
CRP     1.96 191 eP      54 38.09   -0.9
                 eS      55 06.56
CP2     1.97 192 ePc     54 37.31   -1.8
TTA     2.11 265 (P)     54 42.71    1.7
                 eS      55 10.69
PMS     2.14 155 eP      54 43.90    2.6X
FBA     2.34  41 eP      54 44.23    0.0
                 eS      55 12.53
SVW     2.87 225 eP      55 00.70    8.9X
IMA     3.05 342 eP      54 53.50   -0.9
KLU     3.08 121 eP      54 54.79    0.1
     S.D. = 1.5  on   8 of  10 obs.
-------------------------------------
?  MAY  04, 1993  09h 24m 02.67± 1.05s
   39.168 N ± 8.1km   27.573 E ±12.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 2.8 (ISK).

IZM     0.81 198 iPg     24 18.30    0.0
                 iSg     24 29.80
EZN     1.17 305 iPn     24 24.60    0.1
BNT     1.22  13 iPn     24 24.80   -0.5
KCT     1.24  29 iPn     24 26.10    0.4
     S.D. = 0.7  on   4 of   4 obs.
-------------------------------------
*  MAY  04, 1993  09h 26m 08.26± 1.06s
   11.656 N ±17.8km   86.465 W ±11.3km
   DEPTH =  33.0km  (normal)
   3.9mb (  2 obs.)
 NEAR COAST OF NICARAGUA          ( 74)

IISM   12.80 306 iP      29 10.00   -0.7
PPM    13.84 304 iP      29 25.00    0.0
III    14.22 300 iP      29 29.50   -0.2
MIAR   23.69 345 iPd     31 20.01    2.1X
CEH    25.03  14 (P)     31 30.69   -0.2
FNO    25.51 339 iPc     31 35.90    0.5
MEO    25.53 336 iPd     31 37.20    1.6
BW06   36.93 331 eP      33 16.08   -0.2
       0.5s      0.77nm          3.8mb
ULM    39.25 350 eP      33 37.50    2.1X
MCMT   40.05 331 eP      33 43.60    1.3
JAO    42.90   9 eP      34 05.50    0.2
BAO    46.75 125 eP      34 36.90    0.2
FCC    47.36 355 eP      34 43.50    2.7X
FRB    53.53  10 eP      35 27.00   -0.7
YKA    54.63 344 eP      35 33.80   -2.0
       0.8s      1.00nm          3.9mb
MBC    66.94 352 eP      36 58.50   -0.7
FBA    67.54 336 (P)     37 04.03    0.8
WRA   139.96 253 PKP     45 33.20   -2.7X
       0.7s      0.50nm
     S.D. = 1.0  on  14 of  18 obs.
-------------------------------------
?  MAY  04, 1993  10h 02m 33.82± 1.01s
   39.106 N ± 7.7km   27.524 E ±12.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 2.7 (ISK).

IZM     0.74 196 iPg     02 48.30    0.0
                 iSg     03 00.80
EZN     1.17 308 ePn     02 55.70    0.0
BNT     1.29  14 iPn     02 57.70    0.1
KCT     1.31  29 ePn     02 58.00    0.0
     S.D. = 0.1  on   4 of   4 obs.
-------------------------------------
   MAY  04, 1993  10h 07m 50.40± 0.64s
   38.866 N ± 5.6km   29.289 E ± 7.0km
   DEPTH =   5.0km  (geophysicist)
 TURKEY                           (366)
      ML 3.0 (ISK).

KHL     0.57 161 iPg     08 02.00    0.1
                 iSg     08 09.50
ALT     0.67  73 iPg     08 03.60   -0.2
                 eSg     08 13.60
KCT     1.56 333 iPn     08 18.80    0.0
CIN     1.58 217 eP      08 19.00   -0.1
YLV     1.70   2 ePn     08 21.20    0.3
KGT     2.20 317 ePn     08 28.00   -0.2
     S.D. = 0.2  on   6 of   6 obs.
-------------------------------------
*  MAY  04, 1993  10h 49m 32.26± 1.08s
   28.138 N ±15.8km   130.025 E ±13.1km
   DEPTH =  33.0km  (normal)
   4.3mb (  5 obs.)
 RYUKYU ISLANDS                   (238)

KAGJ    3.13  14 P       50 21.10    0.7
                 S       50 58.20
KUMJ    4.44   9 P       50 40.20    1.2
                 S       51 32.10
SHNJ    6.04   9 eP      51 01.70    0.1
TKSJ    6.77  30 P       51 11.00   -0.9
                 S       52 25.60
YONJ    7.61  22 P       51 22.60   -1.1
                 S       52 44.30
WKYJ    7.71  37 P       51 23.80   -1.3
                 S       52 45.70
TSRJ    8.95  33 P       51 41.50   -0.7
CHJJ   10.95  42 eP      52 10.70    1.0
BJI    16.48 320 eP      53 27.50    5.0X
       1.0s     11.00nm          3.9mb
     Z  16s      0.29um          3.9Msz
GUN    38.81 280 P       56 56.40    0.1
       0.5s      9.00nm          4.8mb
PKI    39.28 280 P       57 00.00   -0.2
KKN    39.35 280 P       57 00.20   -0.4
DMN    39.54 280 P       57 02.80    0.6
GKN    39.87 281 P       57 04.40   -0.4
       0.5s      9.00nm          4.8mb
INK    66.51  24 eP      00 22.50    2.0
MBC    67.60  14 eP      00 28.00    0.7
YKA    76.13  26 eP      01 18.50    0.3
       0.8s      1.00nm          3.9mb
NB2    78.31 334 P       01 29.26   -1.1
       0.7s      1.60nm          4.1mb
NAI    93.44 270 PDIF    02 46.00   -0.4
     Z  20s      0.89um          5.2Msz
                PP      06 28.00
                SKKS    13 20.00
                SS      20 16.00
                LQ      28 08.00
     S.D. = 1.0  on  18 of  19 obs.
-------------------------------------
%  MAY  04, 1993  10h 53m 04.83± 0.58s
   26.901 S ± 6.5km   26.850 E ± 5.5km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA         (584)
      ML 2.7 (PRE).

BFS     0.06 273 iPd     53 07.80    1.3
                 S       53 09.80
PRY     0.56  93 eP      53 16.00    0.0
                 S       53 23.00
KSR     1.03   2 iPc     53 24.00   -0.9
                 S       53 38.00
SWZ     1.39 258 eP      53 30.50   -0.5
                 S       53 47.80
SEK     1.57 154 iPd     53 34.90    1.3
                 S       53 53.30
SLR     1.73  48 eP      53 37.00    1.1
                 S       53 59.00
BLF     2.28 195 eP      53 43.00   -0.8
                 S       54 12.50
BFT     3.11  68 eP      53 55.00   -0.7
FRS     3.14 205 iPc     53 55.00   -0.9
                 S       54 30.80
CER     9.18 224 e(P)    55 21.00    0.1
     S.D. = 1.0  on  10 of  10 obs.
-------------------------------------
   MAY  04, 1993  12h 28m 28.05± 0.53s
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31.438 S ± 8.1km 69.074 W ± 9.9km
DEPTH = 119.5 ± 12.7 km
SAN JUAN PROVINCE, ARGENTINA (137)
MD 4.3 (SAN).

ZON	0.35	108	iPd	28 45.40	-0.1
RTBS	0.39	235	iPd	28 45.50	0.0
JACH	1.79	226	iP	28 59.45	0.0
			iS	29 23.58	
FCH	2.15	208	iP	29 05.24	1.1
PEL	2.18	218	iP	29 04.50	0.2
			iS	29 31.99	
ROCH	2.24	227	iP	29 04.57	-0.7
			iS	29 32.19	
SAN	2.42	213	(P)	29 09.44	2.1
			iS	29 37.32	
PCH	2.49	209	iP	29 09.00	0.6
			iS	29 40.49	
TACH	2.71	215	iP	29 10.81	-0.4
CHCH	2.82	208	iP	29 12.85	0.2
LCCH	2.93	225	iP	29 13.04	-1.0
LNV	3.19	218	iP	29 15.72	-1.8
RFA	3.36	171	iPd	29 19.80	-0.1
			(S)	29 49.70	
TCA	3.84	90	iPc	29 26.20	-0.1
CYA	4.12	44	iPc	29 29.30	-0.9
			(S)	30 09.00	
FSA	5.97	27	eP	29 56.00	0.6
CNCB	14.59	4	P	31 52.80	2.4
LPB	14.87	4	P	31 52.00	-1.7
ZOBO	15.13	3	P	31 57.00	-0.2

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

? MAY 04, 1993 12h 48m 10.41± 1.08s
39.102 N ± 8.0km 27.601 E ±13.0km
DEPTH = 5.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

IZM	0.75	201	iPg	48 25.40	-0.1
			iSg	48 36.40	
EZN	1.22	307	ePn	48 33.70	0.1
EDC	1.26	9	ePn	48 34.00	-0.3
KCT	1.29	27	ePn	48 34.90	0.2

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

& MAY 04, 1993 13h 00m 16.90s
34.120 N 116.393 W
DEPTH = 1.6km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 2.8 (PAS). Felt.

PEC	0.68	251	eP	00 29.59	-0.8
			S	00 37.37	
PLM	0.86	207	(P)	00 36.44	2.2
			eS	00 44.77	
SSK	1.08	275	eP	00 37.08	-1.1
			eS	00 52.27	
GSC	1.23	344	ePd	00 39.61	-0.9
			eS	00 55.35	
GLA	1.69	129	ePn	00 45.01	-2.6
			ePg	00 48.28	
			eS	01 11.48	
ISA	2.30	313	ePn	00 55.27	-1.3
			ePg	00 58.90	

6 obs. ossocioted

MAY 04, 1993 13h 09m 29.72± 0.48s
39.875 N ± 5.1km 20.726 E ± 3.6km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)

IGT	0.46	222	ePg	09 38.38	-0.7
			eSg	09 44.90	
SRN	0.56	271	iPgd	09 41.00	0.0
			iSg	09 49.00	
TPE	0.69	308	iPgc	09 44.00	0.6
FNA	1.03	28	ePg	09 48.62	-0.7
			eSg	10 03.30	
VLO	1.11	303	ePn	09 49.60	-1.0
OHR	1.24	3	iPn	09 52.00	-0.7
	0.8s		96.00nm		
			i	09 54.60	
			i	10 06.00	
			i	10 08.30	
			Lg	10 13.20	
LIT	1.37	80	ePb	09 55.70	0.8
			eSb	10 15.36	
AGG	1.51	124	ePb	09 57.34	0.5
			eSb	10 18.46	
TIR	1.61	336	ePn	09 58.00	-0.2
GRG	1.67	49	ePb	09 59.30	0.1
			eSb	10 21.36	
PHP	1.82	353	ePn	10 01.60	0.3
THE	1.87	65	ePn	10 02.00	-0.1
LACI	1.92	337	ePn	10 05.10	2.4
VAY	2.01	44	ePn	10 03.60	-0.5
KNT	2.10	51	ePn	10 04.50	-0.8
SKO	2.16	14	ePn	09 59.00	-7.3X
	1.0s		104.00nm		
			iPg	10 08.00	
			iSg	10 34.10	
			Lg	10 38.00	
SOH	2.22	64	ePn	10 06.90	-0.3
PAIG	2.27	88	ePn	10 08.46	0.6
OUR	2.54	79	ePn	10 11.22	-0.4

S.D. = 0.9 on 18 of 19 obs.

? MAY 04, 1993 13h 32m 30.31± 5.33s
30.142 S ±30.2km 72.509 W ±35.9km
DEPTH = 24.0 ± 6.5 km
OFF COAST OF CENTRAL CHILE (134)
MD 4.0 (SAN).

RTRS	2.64	91	e(P)	33 13.70	1.4
JACH	3.02	148	iP	33 17.30	-0.4
			iS	33 46.14	
ROCH	3.10	156	iP	33 18.80	-0.2
PEL	3.37	153	iP	33 22.39	-0.3
			iS	33 55.09	
LCCH	3.42	167	iP	33 23.68	0.4
			iS	33 56.21	
RTCB	3.46	114	e(P)	33 00.00	-24.0X
ZON	3.58	114	eP	33 26.10	0.4
			eS	34 18.10	
RTLL	3.67	110	e(P)	32 57.50	-29.5X
FCH	3.70	150	iP	33 27.41	-0.2
			iS	34 05.49	
TACH	3.75	160	iP	33 28.37	0.4
			iS	34 05.56	
RTCV	3.82	118	ePc	33 28.40	-0.6
			S	34 23.00	
PCH	3.86	154	iP	33 29.48	-0.2
			iS	34 07.69	
LNV	3.91	167	iP	33 30.11	-0.2
			iS	34 08.18	
CFA	3.95	113	iPd	33 30.50	-0.4
			S	34 09.50	
CHCH	4.10	158	iP	33 32.93	-0.1
			iS	34 14.22	
MDZ	4.15	132	eP	33 35.20	1.4
RTPR	5.19	93	ePc	33 46.90	-1.6

S.D. = 0.8 on 15 of 17 obs.

% MAY 04, 1993 14h 20m 28.46± 2.32s
52.366 N ± 9.5km 0.356 W ±17.9km
DEPTH = 5.0km (geophysicist)
UNITED KINGDOM (533)
ML 2.4 (BGS).

KUF	0.25	355	ePg	20 33.60	0.0
CWF	0.69	303	ePg	20 42.30	0.0
			eSg	20 55.00	
KWE	1.12	306	ePn	20 49.70	-0.1
			eSn	21 07.30	
HAE	1.39	257	ePnd	20 54.10	-0.4
			eSn	21 13.50	
HGH	1.68	245	ePn	20 58.60	0.0
HTR	1.81	262	ePn	21 01.00	0.4
			eSn	21 25.70	

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

% MAY 04, 1993 14h 58m 01.46± 0.42s
42.351 S ± 4.8km 172.246 E ± 5.5km
DEPTH = 21.7 ± 5.8 km
SOUTH ISLAND, NEW ZEALAND (162)
ML 3.8 (WEL).

LTZ	0.43	178	Pc	58 10.30	-0.1
			S	58 15.60	
DSZ	0.69	331	P	58 14.70	0.0
THZ	0.76	40	P	58 15.30	-0.7
			eS	58 26.00	
KHZ	0.96	94	P	58 20.20	0.9
WVZ	1.33	236	eP	58 25.80	1.0
			S	58 44.30	
MOZ	1.39	168	eP	58 25.50	-0.1
ORZ	1.54	8	eP	58 28.40	0.6
			S	58 49.30	
EWZ	1.55	221	P	58 28.80	0.9
TCW	1.90	54	eP	58 34.00	1.0
MRW	2.15	60	eP	58 37.60	0.9
CAW	2.45	61	P	58 41.20	0.3
MTW	2.71	65	eP	58 44.00	-0.6
BWZ	2.78	217	eP	58 45.40	-0.1
ODZ	2.93	203	eP	58 47.10	-0.6
MNG	2.98	56	eP	58 47.60	-0.9
TUZ	4.07	207	eP	59 02.50	-1.3
MOZ	4.31	28	eP	59 06.00	-1.3

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

% MAY 04, 1993 15h 18m 20.74± 0.70s
26.913 S ± 7.1km 26.730 E ± 6.3km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.5 (PRE).

BFS	0.05	74	iPc	18 22.40	0.1
PRY	0.66	92	eP	18 34.00	0.0
			S	18 42.00	
KSR	1.05	8	iPd	18 42.00	0.8
			S	18 56.00	
SWZ	1.28	258	eP	18 44.90	-0.2
			S	19 02.30	
SEK	1.61	151	eP	18 50.90	0.8
			S	19 11.10	
SLR	1.82	50	eP	18 52.00	-1.1
			S	19 17.00	
BLF	2.24	192	eP	18 58.80	-0.4

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

• MAY 04, 1993 15h 21m 29.31± 0.63s
4.718 S ± 8.8km 126.751 E ±12.2km
DEPTH = 33.0km (normal)
4.6mb (5 obs.) 4.3Msz (1 obs.)
BANDA SEA (280)

AAI	1.77	55	ePd	21 58.10	0.1
WB2	16.85	155	iPc	25 20.60	-3.8X
	0.7s		5.50nm		3.8mb
			i	25 27.70	
ASPA	20.06	161	iPd	26 02.70	-0.1
	0.8s		44.50nm		4.8mb
WARB	21.35	180	eP	26 16.00	0.0
STK	30.40	154	iPc	27 40.90	0.1
	0.4s		1.30nm		4.1mb
CHG	36.02	311	eP	28 29.30	-0.3
KMI	37.74	323	Pd	28 45.50	1.2
	1.5s		30.00nm		4.9mb
LZH	45.91	334	eP	29 50.00	-0.9
	1.2s		20.00nm		4.9mb
	Z 20s		0.35um		4.3Msz
	N 12s		0.50um		

S.D. = 0.8 on 7 of 8 obs.

• MAY 04, 1993 15h 22m 12.74± 0.84s
21.487 S ± 8.2km 176.157 W ±12.7km
DEPTH = 210.0km (geophysicist)
4.7mb (12 obs.)
FIJI ISLANDS REGION (181)

SVA	6.08	303	eP	24 40.10	58.3X
BKM	15.18	282	iPd	25 38.50	0.4
			iS	26 48.00	
DZM	16.17	265	iPc	25 50.90	0.7
URZ	17.70	198	eP	26 05.30	-1.8
			eS	29 09.70	
NOZ	17.79	195	eP	26 07.10	-1.0
WHH	18.45	198	eP	26 14.90	-0.3
NGZ	19.00	200	eP	26 20.80	0.0
CNZ	19.03	200	eP	26 21.80	0.6
WAHZ	19.25	198	eP	26 22.00	-1.3
TEHZ	19.39	196	eP	26 25.50	0.8
PGZ	20.13	197	eP	26 31.60	-0.4
MNG	20.35	199	eP	26 32.50	-1.8
			S	30 05.60	
ORZ	21.54	204	eP	26 47.80	1.8
THZ	22.22	202	eP	26 56.90	4.3X
KHZ	22.59	200	eP	26 57.70	1.6
			eS	30 52.50	
LTZ	23.34	202	eP	27 04.30	0.9

04d 15h

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WVZ     24.15 204 eP     27 11.90    0.9
ARMA    30.22 246 eP     28 07.40    1.5
RMO     32.38 254 iPd    28 25.50    0.9
        0.8s     46.00nm          5.2mb
CNB     33.13 238 iPd    28 34.10    2.9X
        0.8s     29.00nm          5.0mb
CAN     33.42 238 eP     28 33.80    0.2
                 i       28 35.90
QLP     36.43 254 eP     28 59.00    0.0
TOO     36.73 236 eP     29 03.00    1.5
        0.7s     14.00nm          4.7mb
PMG     37.24 283 eP     29 06.00    0.1
        1.0s    156.00nm          5.6mb
STK     38.93 246 eP     29 19.90    0.1
        0.8s      6.40nm          4.3mb
ASPA    45.98 257 iPd    30 16.30   -0.6
        0.8s     28.20nm          4.7mb
                 eS      36 42.80
WB2     46.16 263 eP     30 16.70   -1.7
        0.5s     16.20nm          4.7mb
WRA     46.17 263 P      30 17.80   -0.7
        1.0s      5.50nm          3.9mb
WARB    52.18 253 eP     31 13.00    8.8X
MBL     59.23 258 eP     31 52.00   -2.4
        0.3s      6.00nm          4.9mb
NANU    62.80 255 iPd    32 18.10   -0.3
        0.3s      4.00nm          4.7mb
MAT     72.03 323 iPd    33 14.30   -1.2
        0.9s      4.20nm          4.2mb
FBA     88.84  12 iPc    34 44.31    0.7
YKA     96.69  24 eP     35 20.60    1.0
        0.8s      0.50nm          3.9mb
NB2    140.14 354 PKP    41 10.00   -7.5X
        0.8s      2.80nm
HFS    140.76 352 ePKP   41 10.30   -8.2X
        0.5s      1.80nm
PPE    148.63 327 ePKP   41 41.00    8.8X
KSP    149.11 345 iPKP   41 39.00    6.2X
        0.8s     35.00nm
VRI    149.32 328 ePKP   41 38.00    4.7X
CLL    149.38 349 iPKP   41 39.70    6.6X
        1.0s     38.00nm
                 i       41 43.90
HRI    149.46 299 ePKP   41 40.40    6.4X
BRG    149.62 347 iPKP   41 41.00    7.5X
        1.0s     20.00nm
                 i       41 45.40
CVO    149.63 328 ePKP   41 41.00    7.3X
MLR    149.98 328 iPKPc  41 41.50    7.1X
MOX    150.26 350 ePKP   41 42.30    7.8X
        1.5s     20.00nm
                 e       41 47.60
PRU    150.32 346 PKPc   41 42.30    7.7X
        0.8s     17.90nm
                 e       41 48.00
BGIO   150.35 297 ePKP   41 42.60    7.3X
PRNI   150.70 294 ePKP   41 43.40    7.6X
ENN    150.73 357 ePKP   41 49.50   14.4X
        1.0s     17.00nm
CSS    150.88 304 ePKP   41 42.50    6.6X
GRF    151.25 350 ePKP   41 44.10    8.1X
     Z  18s      0.10um          4.7Msz
                 id      41 52.30
KHC    151.35 347 ePKP   41 45.00    8.8X
                 e       41 53.40
                 e       42 38.50
CDF    152.99 355 ePKP   41 58.90   20.2X
        1.0s      7.80nm
     S.D. = 1.2  on  30 of  53 obs.
-------------------------------------
*  MAY  04, 1993  15h 39m 26.48± 0.85s
   28.179 N ±10.8km  130.034 E ±13.2km
   DEPTH =  33.0km  (normol)
   3.8mb (  4 obs.)
 RYUKYU ISLANDS                  (238)

KAGJ    3.09  14 P      40 14.70    0.7
KUMJ    4.40   9 P      40 34.10    1.5
                 S      41 25.80
SHNJ    6.00   9 eP     40 56.10    0.9
TKSJ    6.73  30 P      41 05.20   -0.4
                 S      42 18.50
YONJ    7.57  22 P      41 16.70   -0.7
                 eS     42 38.50
WKYJ    7.68  37 P      41 17.30   -1.5
                 S      42 40.00
MAT    10.83  38 (P)    42 02.00   -0.2

BJI     16.46 320 eP     43 21.50    5.1X
        1.0s     11.00nm          3.9mb
     Z  16s      0.29um          4.3Msz
KMI     24.56 269 eP     44 44.50   -0.4
        1.5s     30.00nm          4.6mb
PKI     39.28 280 P      46 53.40   -1.0
WRA     48.02 175 P      48 05.60    1.1
        0.7s      0.40nm          3.6mb
YKA     76.08  26 eP     51 12.30    0.1
        0.8s      0.60nm          3.6mb
     S.D. = 1.0  on  11 of  12 obs.
-------------------------------------
%  MAY  04, 1993  16h 43m 12.54± 1.02s
   39.258 N ± 8.2km   27.958 E ±12.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.8 (ISK).

IZM     1.02 213 iPg     43 31.50   -0.3
KCT     1.04  17 iPg     43 32.00   -0.1
EDC     1.09 356 iPn     43 33.00    0.0
                 iSg     43 46.00
BNT     1.10 358 iPg     43 32.50   -0.7
                 eSg     43 47.50
EZN     1.38 295 ePn     43 38.40    0.6
YLV     1.70  39 ePn     43 43.00    0.5
     S.D. = 0.6  on   6 of   6 obs.
-------------------------------------
   MAY  04, 1993  16h 46m 08.92± 0.46s
   14.562 N ± 7.5km   40.167 E ± 7.4km
   DEPTH =  10.0km  (geophysicist)
   4.5mb ( 15 obs.)
 ETHIOPIA                        (558)

AAE     5.67 194 ePn     47 35.70    0.1
VOY    38.36 330 e(P)    53 33.20    1.3
GEC2   40.52 333 P      53 50.30    0.5
        1.0s      7.36nm          4.3mb
                 e       54 00.80
OBN    40.54 357 iPc     53 51.00    1.2
        1.2s     22.00nm          4.7mb
FRF    40.68 322 eP      53 51.30    0.2
        1.2s     11.30nm          4.5mb
KHC    40.79 333 eP      53 52.50    0.6
                 e       53 58.00
PRU    41.03 335 eP      53 54.50    0.6
LPG    41.75 324 eP      53 59.80   -0.4
        1.0s      6.60nm          4.3mb
LPL    41.77 324 eP      53 59.80   -0.5
        0.9s      3.30nm          4.1mb
BRG    41.96 335 e(P)    54 02.10    0.7
GRF    42.25 332 eP      54 03.50   -0.4
CLL    42.67 335 iPc     54 07.50    0.2
MOX    42.76 333 eP      54 08.70    0.6
        1.3s      8.00nm          4.3mb
BSF    43.16 327 eP      54 10.60   -0.9
        1.0s      9.60nm          4.5mb
CDF    43.28 328 eP      54 11.30   -1.1
        1.1s      6.60nm          4.3mb
GKN    43.31  65 P       54 13.20    0.2
DMN    43.66  65 P       54 15.20   -0.8
KKN    43.84  65 P       54 17.60    0.2
LBF    44.18 325 eP      54 19.50   -0.2
        0.8s      6.05nm          4.5mb
GUN    44.38  65 P       54 21.80   -0.2
LOR    44.41 325 eP      54 21.30   -0.2
        1.1s     10.25nm          4.6mb
AVF    44.42 324 eP      54 21.20   -0.4
        1.4s     16.55nm          4.7mb
SSF    44.49 324 eP      54 21.80   -0.4
        1.3s     13.70nm          4.7mb
BGF    44.59 323 eP      54 23.10    0.2
        0.7s      6.05nm          4.6mb
APO    49.72 343 eP      55 01.80   -1.2
        0.6s      2.00nm          4.3mb
NB2    50.90 342 P       55 11.20   -0.9
        1.2s     14.50nm          4 8mb
MBC    88.54 355 eP      59 04.00    1.4
     S.D. = 0.7  on  27 of  27 obs.
-------------------------------------
*  MAY  04, 1993  17h 31m 33.27± 1.41s
   26.330 S ± 6.9km   71.294 W ±16.5km
   DEPTH =  74.4 ± 24.4 km
 OFF COAST OF NORTHERN CHILE     (121)

ANT     2.73  17 iP+     32 16.00    0.3
                 iS      32 54.00

FSA     4.75  88 eP      32 44.50    0.5
CYA     5.32 115 ePc     32 50.70   -1.3
                 S       33 51.70
ZON     5.68 157 eP      33 03.60    6.6X
RTCV    6.01 157 ePd     33 03.60    1.9
YJA     6.71  53 e(P)    33 12.50    0.8
MDZ     6.87 163 eP      33 22.30    8.8X
                 e(S)    34 45.70
TCA     7.71 132 eP      33 23.50   -1.6
                 i       33 25.00
                 (S)     34 47.00
RFA     8.76 165 eP      33 39.30   -0.2
ARE     9.82 359 eP      33 53.00   -1.3
CNCB    9.96  19 P       33 57.00    0.6
CCH    10.11  29 eP      34 11.00   12.8X
LPB    10.19  18 eP      34 09.00    9.6X
ZOBO   10.44  17 P       34 02.70   -0.2
     Z  24s      0.13um
                 LR      37 36.00
CACB   22.90  84 e(P)    36 32.00    0.4
                 e       36 45.90
     S.D. = 1.3  on  11 of  15 obs.
-------------------------------------
&  MAY  04, 1993  17h 37m 05.89s
   61.484 N          152.167 W
   DEPTH = 130.6km
 SOUTHERN ALASKA                 (  2)
      <AEIC>.

CGLM    0.19 156 eP      37 23.52    1.1
CRP     0.22 179 eP      37 23.35    0.7
CP2     0.22 189 iPd     37 23.71    1.0
CPAM    0.23 177 iPc     37 23.32    0.7
BGL     0.25 206 iPc     37 23.47    0.8
CKN     0.26 182 ePc     37 23.48    0.9
CKT     0.28 184 iPc     37 23.34    0.6
CKL     0.30 196 ePc     37 23.50    0.7
                 eS      37 38.51
SPU     0.31 170 iPc     37 23.42    0.6
SKT     0.58  31 iPc     37 24.97   -0.8
                 eS      37 40.46
SUA     0.68  91 ePc     37 26.59    0.0
                 eS      37 43.28
NKA     0.87 148 eP      37 28.92    1.0
DFR     0.93 196 iPd     37 27.65   -1.0
                 eS      37 45.47
NCT     1.00 202 iPd     37 28.20   -1.0
                 eS      37 46.52
RDW     1.05 198 eP      37 28.98   -0.9
RS2     1.06 196 ePd     37 29.17   -0.8
RSO     1.06 196 ePd     37 28.98   -1.0
RS1     1.07 196 eP      37 29.00   -1.0
PWA     1.11  80 P       37 29.80   -0.3
PMS     1.28 100 P       37 31.50   -0.5
SLKM    1.36 135 eP      37 32.37   -0.5
PLRM    1.46  84 eP      37 32.63   -1.2
INE     1.49 197 eP      37 33.03   -1.5
INW     1.50 199 ePd     37 33.17   -1.3
GHO     1.58  78 ePc     37 34.28   -1.1
PTE     1.65 111 iPc     37 34.94   -1.1
MPA     1.69 125 iPc     37 35.99   -0.6
BRLK    1.84 159 eP      37 38.46    0.1
SML     1.86  78 eP      37 37.33   -1.3
HUR     1.91  37 eP      37 38.62   -0.6
OPT     1.91 196 eP      37 38.19   -1.1
SEW     1.92 135 eP      37 38.29   -1.0
PDB     1.97 211 iPd     37 38.53   -1.4
CNPM    2.02 166 eP      37 38.97   -1.6
TRF     2.16  23 eP      37 41.33   -1.2
AUL     2.20 197 P       37 41.90   -0.9
AUW     2.22 198 eP      37 41.75   -1.3
SCM     2.34  79 iPd     37 43.42   -1.2
MCNL    2.55 206 iPd     37 45.48   -1.8
CDD     2.67 197 eP      37 47.36   -1.5
VLZ     2.84  95 ePc     37 49.23   -1.7
HIN     2.97 109 eP      37 51.33   -1.5
KLU     3.00  87 iPc     37 51.58   -1.6
CVA     3.26 104 eP      37 55.12   -1.4
SDG     3.29  69 eP      37 56.84   -0.2
PAX     3.47  62 eP      37 58.95   -0.5
GLB     4.01  87 eP      38 05.24   -1.4
     47 obs. associated
-------------------------------------
   MAY  04, 1993  18h 53m 20.87± 0.43s
   4.797 N ± 7.7km  122.987 E ± 9.6km
   DEPTH = 578.2 ±  5.7 km
   4.8mb ( 23 obs.)
```

CELEBES SEA (262)

MNI	3.81	151	ePc	54 44.00	0.1
			eS	55 51.50	
KKM	6.86	281	iPc	55 09.00	-0.4
	0.6s	665.40nm		5.9mb	X
MTN	19.31	155	eP	57 10.00	-0.5
	0.3s	106.00nm		5.9mb	X
			e	57 14.00	
KNA	21.20	164	eP	57 27.00	-0.9
LOE	24.29	303	eP	57 56.10	0.3
KHT	25.98	294	iPd	58 11.30	0.7
MBL	25.98	187	eP	58 10.70	0.1
WB2	27.01	156	iPd	58 17.70	-1.9
	0.6s	153.80nm		5.8mb	
			iS	02 12.50	
CHG	27.29	303	iPd	58 22.90	0.8
	0.8s	17.16nm		4.7mb	
KMI	28.04	318	eP	58 29.00	0.2
	1.8s	50.00nm		4.8mb	
ASPA	30.23	160	iPc	58 46.90	-0.4
	0.4s	47.20nm		5.5mb	
			ePcP	02 49.50	
			eS	03 04.50	
			eScP	04 16.00	
WARB	31.00	174	iPc	58 54.30	0.5
	0.4s	62.00nm		5.6mb	
MEEK	31.53	187	eP	58 58.00	-0.3
FORT	35.71	173	eP	59 33.00	0.0
	0.5s	35.00nm		5.2mb	
LZH	35.78	333	eP	59 34.00	0.3
	1.2s	30.00nm		4.8mb	
QLP	37.37	148	eP	59 47.00	0.3
RMQ	39.87	143	eP	00 06.90	-0.2
	0.5s	7.00nm		4.5mb	
			ePP	01 56.00	
			eScP	04 53.30	
STK	40.55	155	iPc	00 12.50	0.1
	0.4s	18.10nm		5.0mb	
			ipP	01 59.00	
			eS	05 39.80	
GUN	42.10	307	P	00 25.40	0.2
PKI	42.32	306	P	00 26.60	-0.3
	0.8s	27.00nm		4.8mb	
KKN	42.52	307	P	00 28.20	-0.2
	0.6s	29.00nm		5.0mb	
DMN	42.58	306	P	00 29.00	0.1
	0.7s	41.00nm		5.1mb	
BRS	43.03	140	iPd	00 32.20	0.1
	1.0s	9.00nm		4.3mb	
GKN	43.13	307	P	00 33.00	-0.1
	0.8s	36.00nm		5.0mb	
ARMA	44.47	144	iPd	00 44.40	1.1
	0.9s	26.00nm		4.8mb	
HYB	45.24	290	ePd	00 49.60	0.2
	1.0s	30.00nm		4.8mb	
GBA	45.74	284	Pd	00 53.00	-0.1
	0.7s	8.00nm		4.4mb	
BWA	45.80	150	iPc	00 54.80	1.4
CAN	46.80	151	iPc	01 01.40	0.4
CNB	46.97	150	iPc	01 03.10	0.8
	0.3s	9.00nm		4.8mb	
TOO	47.07	155	iPc	01 03.10	0.1
	0.4s	13.00nm		4.8mb	
MAIO	65.90	308	iPd	03 12.20	-0.1
OBN	84.03	325	iPc	04 51.70	-0.3
	0.9s	25.00nm		4.8mb	
KAF	88.92	332	iP	05 13.60	-1.5
	0.6s	4.80nm		4.6mb	
N82	96.16	333	P	05 48.30	0.0
	0.8s	1.40nm		4.3mb	
GEC2	98.92	321	P	06 00.40	-0 7
	0.8s	0.59nm		4.1mb	
S.D. = 0.7 on 36 of 36 obs					

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* MAY 04, 1993 18h 53m 31.58± 0.58s
7.453 N ±10.1km 72.242 W ± 6.4km
DEPTH = 10.0km (geophysicist)
4.3mb (1 obs.)

NORTHERN COLOMBIA (99)

BMG	0.91	245	iPd	53 49.50	0.4
BOG	3.34	213	iP	54 38.00	12.7X
			eS	55 23.00	
TOV	3.35	46	iPnd	54 27.80	2.6X
			iPP	54 27.90	
			iSn	55 13.00	
CEOS	4.17	68	iP	54 37.50	0.7
			iS	55 44.20	
OLLA	5.95	64	eP	55 02.60	0.6
LLAV	6.15	60	iPd	54 58.00	-6.8X
GUAN	6.98	69	iPd	55 15.80	-0.7
UPA	7.38	282	eP	55 26.63	4.7X
			iS	56 44.69	
			i	56 44.82	
ECO	7.61	285	ePd	55 25.47	0.2
			eS	56 47.31	
ZOBO	23.92	170	P	58 58.20	10.9X
			e	06 12.00	
LPB	24.18	170	eP	58 49.00	-0.7
			e	06 27.00	
CNCB	24.47	170	P	58 53.00	0.3
			e	06 27.00	
YKA	62.98	339	eP	03 59.70	-0.8
	0.5s	1.00nm		4.3mb	
WB2	151.39	242	ePKP	13 26.90	5.1X
	0.3s	3.10nm			
WRA	151.40	242	PKP	13 28.00	6.2X
	0.5s	1.60nm			
S.D. = 0.7 on 8 of 15 obs.					

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* MAY 04, 1993 19h 28m 58.45± 1.12s
5.543 N ± 8.9km 126.223 E ±19.7km
DEPTH = 132.7 ± 9.2 km
4.4mb (3 obs.)

MINDANAO, PHILIPPINE ISLANDS (259)

CTB	2.60	309	eP	29 39.00	-1.5
CGP	3.27	332	eP	29 49.00	-0.3
			iS	30 35.00	
MNI	4.30	199	eP	30 04.50	1.4
PLP	5.72	348	ePc	30 23.50	1.2
WB2	26.56	163	eP	34 24.90	-1.0
	0.6s	2.70nm		4.0mb	
ASPA	29.98	166	eP	34 56.00	-0.6
	0.4s	3.00nm		4.4mb	
GUN	44.27	305	P	36 57.40	0.3
	0.7s	22.00nm		5.0mb	
PKI	44.53	304	P	36 58.60	-0.5
KKN	44.71	304	P	37 00.80	0.3
DMN	44.79	304	P	37 01.00	-0.1
GKN	45.32	304	P	37 05.60	0.4
KAF	89.77	332	eP	41 43.30	0.5
S.D. = 1.0 on 12 of 12 obs.					

? MAY 04, 1993 19h 43m 48.25± 2.50s
31.182 S ±15.3km 68.988 W ±23.8km
DEPTH = 128.0 ± 24.4 km

SAN JUAN PROVINCE, ARGENTINA (137)

ZON	0.45	144	iPd	44 07.00	-0.1
			eS	44 19.00	
RTBS	0.62	220	iPd	44 08.20	0.1
MDZ	1.70	176	eP	44 43.70	24.7X
			i(S)	44 46.20	
RFA	3.61	173	ePc	44 43.50	-0.1
TCA	3.77	94	iP	44 45.90	0.1
CYA	3.89	46	ePc	44 47.30	-0.1
			S	45 25.60	
S.D. = 0.3 on 5 of 6 obs.					

% MAY 04, 1993 20h 03m 35.19± 2.25s
44.327 N ±10.4km 6.818 E ±16.0km
DEPTH = 10.0km (geophysicist)

FRANCE (538)

ML 2.0 (GEN).

PZZ	0.27	49	P	03 41.32	0.4
			S	03 44.89	
STV	0.37	103	P	03 42.83	-0.1
			S	03 47.31	
ENR	0.44	103	P	03 44 16	-0.1
			S	03 49.46	
RRL	0.59	358	P	03 47.54	0.2
			S	03 55 73	
BHB	0.61	32	P	03 47 18	-0.2
			S	03 55.05	
IMI	0.88	118	P	03 52.21	0.1
			S	04 02.94	
RSP	0.88	21	P	03 51.98	-0.2
S.D. = 0.3 on 7 of 7 obs.					

? MAY 04, 1993 20h 43m 36.18± 7.89s
30.592 S ±61.0km 68.615 W ±46.0km
DEPTH = 33.0km (normal)

SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.75	170	iPc	43 51.70	1.4
			(S)	44 03.00	
RTCB	0.91	190	iPd	43 52.50	-0.1
			S	44 04.00	
ZON	0.95	183	iPd	43 52.20	-1.1
			eS	44 04.20	
CFA	1.06	162	iPc	43 53.50	-1.3
			S	44 05.50	
TCA	3.54	103	i(P)	44 30.00	-0.2
S.D. = 1.5 on 5 of 5 obs.					

MAY 04, 1993 20h 48m 50.79± 0.23s
77.215 N ± 4.7km 131.435 E ± 3.7km
DEPTH = 10.0km (geophysicist)
4.7mb (40 obs.)

LAPTEV SEA (655)

YAK	15.29	183	iP	52 28.20	0.3
	1.2s	136.00nm		5.2mb	
			i	55 30.00	
			e	57 10.00	
			i	57 31.00	
			e	00 35.00	
MBC	21.72	38	eP	53 44.00	0.7
	1.0s	13.00nm		4.3mb	
IMA	23.97	76	ePd	54 07.12	1.5
	1.1s	17.50nm		4.6mb	
INK	26.14	57	eP	54 28.00	1.9
	1.0s	4.00nm		4.1mb	
TTA	26.18	82	eP	54 27.24	0.6
	1.0s	9.04nm		4.4mb	
FBA	26.24	72	eP	54 28.68	1.7
	0.8s	5.22nm		4.3mb	
KEV	26.54	311	eP	54 30.00	0.2
SVW	27.88	83	eP	54 42.70	0.6
PWA	28.66	77	eP	54 48.90	-0.1
PMS	29.09	78	eP	54 52.90	-0.1
	0.9s	34.10nm		5.1mb	
SLKM	29.61	79	eP	54 56.93	-0.7
KAF	33.59	305	iP	55 31.30	-1.1
	0.5s	1.60nm		4.2mb	
YKA	34.77	48	eP	55 41.20	-1.5
	1.0s	3.70nm		4.2mb	
NUR	35.38	305	eP	55 47.00	-0.8
NB2	37.15	316	P	56 01.40	-1.4
	1.0s	7.40nm		4.4mb	
HFS	37.62	313	eP	56 05.30	-1.4
	1.3s	17.00nm		4.7mb	
Z	16s	0.08um		3.6MszX	
			LR	09 53.00	
BJI	37.85	199	eP	56 09.00	0.2
	1.2s	65.00nm		5.3mb	
Z	12s	0.91um		4.8MszX	
OBN	38.09	292	eP	56 04.00	-6.7X
Z	16s	0.50um		4.4MszX	
			e	56 15.00	
OFUJ	38.50	167	P	56 14.10	-0.1
YAMJ	39.32	169	P	56 21.30	0.1
FCC	41.35	34	eP	56 42.00	4.4X
LZH	42.98	213	eP	56 52.50	1.0
	1.4s	63.00nm		5.2mb	
Z	12s	0.77um		4.8MszX	
N	11s	0.55um			
			pP	57 12.50	83kmX
			sP	57 22.50	
EKA	44.71	325	Pc	57 05.40	0.4
	0.6s	2.30nm		4.3mb	
KSP	46.06	307	eP	57 16.20	0.4
			e	57 52.30	
BRG	46.44	309	e(P)	57 18.80	0.0
MOX	47.06	311	iPd	57 24.40	0.7
	1.4s	17.00nm		4.9mb	
PRU	47.19	308	eP	57 25.50	0.7
			e	57 29.00	
			e	59 15.50	
GMW	47.46	62	(P)	57 26.31	-0.7
GRF	48.05	311	eP	57 32.80	1.3
			e	57 36.40	
KHC	48.19	309	eP	57 33.50	0.8
			e	57 37.50	
			e	57 47.10	
			e	59 24.00	
PPE	48.35	296	eP	57 40.00	6.1X
LON	48.42	62	eP	57 35.26	0.8

04d 20h

GEC2	48.44	309	P	57	35.30	0.6
	1.4s		4.90nm			4.4mb
			e	57	39.30	
CVO	49.01	297	eP	57	40.00	1.0
MLR	49.38	297	eP	57	43.50	1.5
ULM	49.42	38	eP	57	44.00	1.9
CMP	49.77	297	ePc	57	48.00	3.1X
CDF	49.93	314	eP	57	46.40	0.2
	1.0s		8.20nm			4.7mb
KBA	50.21	308	iPd	57	48.60	0.2
	1.1s		11.30nm			4.7mb
			i	57	49.80	
WTTA	50.33	310	iPd	57	50.00	0.7
	1.1s		15.40nm			4.9mb
BSF	50.58	314	eP	57	51.00	-0.1
	1.4s		15.70nm			4.8mb
MAIO	50.92	262	eP	57	54.00	0.2
SSF	51.84	317	eP	58	00.30	-0.3
	1.1s		8.05nm			4.6mb
LBF	51.84	316	eP	58	00.00	-0.6
	1.1s		14.15nm			4.8mb
MCMT	51.96	54	eP	58	01.60	-0.2
AVF	52.13	317	eP	58	02.40	-0.3
	1.4s		17.00nm			4.8mb
BGF	52.43	317	eP	58	04.70	-0.3
	0.9s		8.70nm			4.7mb
LPL	52.84	314	eP	58	08.80	0.4
	1.2s		11.60nm			4.7mb
LPG	52.85	313	eP	58	08.90	0.3
	0.9s		6.70nm			4.6mb
LSF	52.93	318	eP	58	08.20	-0.6
	1.4s		20.90nm			4.9mb
SKO	53.65	300	iP	58	17.00	2.9
GUN	53.70	232	P	58	14.60	-0.4
GKN	53.83	233	P	58	15.40	-0.3
RJF	53.86	318	eP	58	15.30	-0.2
	1.2s		13.10nm			4.8mb
KKN	53.93	232	P	58	16.40	-0.1
KMI	53.93	213	Pd	58	16.00	-0.6
	2.0s		50.00nm			5.2mb
Z	12s		0.80um			5.0MszX
			pP	58	20.50	15kmX
PKI	54.12	232	P	58	18.40	0.3
	1.2s		71.00nm			5.6mb
DMN	54.14	232	P	58	18.00	-0.1
	1.3s		112.00nm			5.7mb X
CAF	54.14	317	eP	58	18.00	0.3
	1.4s		20.50nm			5.0mb
LFF	54.33	318	eP	58	18.20	-0.8
	1.3s		23.10nm			5.0mb
SBF	54.33	312	eP	58	18.30	-0.9
	1.0s		13.20nm			4.9mb
LPO	54.51	318	eP	58	20.60	0.2
	1.2s		15.75nm			4.9mb
BW06	54.54	52	eP	58	19.79	-1.1
	0.7s		2.28nm			4.3mb
FRF	54.76	313	eP	58	21.30	-0.9
	0.8s		7.80nm			4.8mb
EEO	54.95	25	eP	58	25.00	1.4
PGF	55.35	311	eP	58	26.70	0.0
	0.7s		3.75nm			4.5mb
GAC	56.20	22	ePc	58	33.00	0.4
EPF	56.25	318	eP	58	32.50	-0.6
	0.9s		6.20nm			4.6mb
SRU	57.93	54	eP	58	43.65	-1.5
MSU	58.20	56	ePd	58	47.68	0.5
ALQ	62.70	52	eP	59	16.66	-1.2
	1.0s		7.07nm			4.8mb
ELC	63.04	36	eP	59	17.41	-2.4
OLY	64.50	38	eP	59	27.56	-1.8
KHT	64.65	215	eP	59	30.00	-0.5
HYB	65.27	237	eP	59	33.20	-1.4
LTX	68.66	50	P	59	54.34	-1.7
WRA	96.97	177	P	02	22.80	-0.3
	0.8s		1.20nm			4.5mb
S.D. = 1.0		on	73 of	77	obs.	

? MAY 04, 1993 20h 56m 38.87± 5.53s
29.148 N ±29.6km 30.576 E ±35.3km
DEPTH = 10.0km (geophysicist)
EGYPT (553)
MD 3.7 (HLW).

HLW	0.97	43	ePg	56	57.50	0.2
			eSg	57	01.00	
KOT	1.34	54	ePg	57	04.30	0.7
			eSg	57	13.30	
SAGI	3.71	72	eP	57	37.90	0.4
			eS	58	18.10	
PRNI	4.02	72	eP	57	42.40	0.5
MKT	4.35	65	eP	57	46.00	-0.6
			eS	58	30.20	
DSI	4.80	59	eP	57	51.50	-1.5
CSS	6.25	21	eP	58	13.50	0.1
			eS	59	17.40	
S.D. = 0.9		on	7 of	7	obs.	

• MAY 04, 1993 21h 00m 44.39± 1.16s
31.306 S ±12.9km 68.133 W ±10.5km
DEPTH = 131.7 ± 20.3 km
SAN JUAN PROVINCE, ARGENTINA (137)
MD 4.2 (SAN).

ZON	0.52	243	iPd	01	02.60	-1.5
			eS	01	14.60	
RTBS	1.18	252	iPc	01	09.80	0.3
MDZ	1.69	201	eP	01	17.00	1.8
			iS	01	35.90	
JACH	2.50	236	iP	01	26.26	1.0
			iS	01	58.35	
FCH	2.72	222	iP	01	29.41	1.0
			iS	02	05.28	
PEL	2.84	229	iP	01	29.74	0.2
			iS	02	04.17	
ROCH	2.95	235	eP	01	31.03	-0.3
TCA	3.03	92	iPc	01	32.00	-0.2
PCH	3.06	220	iP	01	33.58	1.0
			iS	02	11.24	
TACH	3.33	225	iP	01	36.01	-0.1
			iS	02	14.97	
CHCH	3.37	218	iP	01	37.12	0.4
			iS	02	17.75	
RFA	3.47	185	iPd	01	36.80	-1.1
			S	02	14.20	
CYA	3.50	36	ePd	01	38.80	0.4
			(S)	02	15.80	
LCCH	3.62	232	iP	01	38.92	-1.0
LNV	3.82	225	iP	01	40.63	-2.0
			iS	02	24.07	
S.D. = 1.2		on	15 of	15	obs.	

% MAY 04, 1993 22h 04m 10.46± 1.55s
44.685 N ± 7.3km 6.808 E ±15.0km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 1.8 (GEN).

RRL	0.24	356	P	04	15.66	0.0
			S	04	19.10	
PZZ	0.28	131	P	04	16.53	0.2
			S	04	20.74	
BHB	0.36	64	P	04	17.86	0.0
			S	04	22.76	
STV	0.58	140	P	04	22.16	0.0
			S	04	29.44	
ENR	0.63	136	P	04	23.12	-0.1
			S	04	31.04	
S.D. = 0.2		on	5 of	5	obs.	

• MAY 04, 1993 22h 15m 40.45± 1.45s
4.840 N ± 8.7km 127.501 E ±11.1km
DEPTH = 108.0 ± 12.6 km
4.6mb (9 obs.)
TALAUD ISLANDS, INDONESIA (263)

CTB	4.03	306	eP	16	42.00	0.8
CGP	4.55	322	eP	16	49.00	0.8
PLP	6.76	338	iPc	17	17.00	-1.7
LEM	22.98	240	iPc	20	39.50	2.8
WB2	25.53	165	eP	20	59.70	-1.1
ASPA	29.01	168	iPd	21	31.60	-0.8
	0.6s		9.00nm			4.6mb
KHT	30.11	291	iPc	21	42.00	-0.2
CHG	31.14	299	ePd	21	50.80	-0.4
BJI	36.50	345	eP	22	38.00	1.1
	1.0s		11.00nm			4.7mb
STK	38.91	161	iPc	22	57.10	-0.1
	0.4s		7.10nm			4.8mb
GUN	45.71	305	P	23	52.80	-0.2
PKI	45.97	304	P	23	54.00	-1.1
KKN	46.16	304	P	23	55.20	-1.2
DMN	46.24	304	P	23	56.40	-0.7
GKN	46.77	304	P	24	00.60	-0.5
	0.6s		11.00nm			4.8mb
GBA	50.09	284	Pd	24	26.00	-0.7
	0.7s		4.50nm			4.6mb
MAIO	69.46	307	eP	26	41.00	1.7
TTA	79.57	27	eP	27	37.90	1.1
KDC	80.59	32	eP	27	42.30	0.1
IMA	81.06	24	eP	27	46.00	1.3
	0.6s		5.70nm			4.6mb
PMS	82.38	29	eP	27	52.00	0.5
MBC	90.71	13	eP	28	32.50	0.7
HFS	97.40	332	eP	29	02.20	-0.5
	0.5s		1.10nm			4.7mb
NB2	98.14	334	P	29	04.60	-1.5
	0.7s		1.10nm			4.5mb
YKA	98.18	24	eP	29	06.00	-0.2
	0.6s		0.70nm			4.4mb
S.D. = 1.1		on	25 of	25	obs.	

MAY 04, 1993 22h 30m 18.48± 0.73s
41.089 N ± 6.1km 22.416 E ± 5.7km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 1.7 (SKO).

GRG	0.13	185	iPg	30	21.76	0.1
			eSg	30	23.82	
VAY	0.26	27	iPg	30	24.00	0.0
			iSg	30	27.80	
KNT	0.37	79	ePg	30	26.00	-0.1
			eSg	30	31.40	
THE	0.62	137	ePg	30	30.20	-0.7
			eSg	30	39.10	
SOH	0.76	110	ePg	30	33.24	-0.1
			eSg	30	43.76	
FNA	0.84	249	ePg	30	34.68	-0.1
			eSg	30	46.40	
OUR	1.41	122	ePb	30	44.40	0.3
PAIG	1.51	140	ePb	30	46.26	0.7
S.D. = 0.5		on	8 of	8	obs.	

MAY 04, 1993 22h 39m 25.27± 0.26s
42.595 N ± 5.2km 45.178 E ± 3.4km
DEPTH = 17.5km (11 depth phases)
4.8mb (55 obs.)
EASTERN CAUCASUS (337)
Felt (V) at Borisakho, Chortali and Pasanauri; (III) at Tbilisi, Georgia.

TAB	4.61	169	iP	40	35.50	-0.4
KVT	6.99	261	iP	41	08.00	-1.3
GAZ	8.17	231	eP	41	24.00	-1.9
KAS	8.59	266	eP	41	30.50	-1.2
HRI	11.92	222	eP	42	17.00	-0.3
CSS	11.97	234	eP	42	22.70	4.7X
CFR	12.55	288	eP	42	22.00	-3.7X
MAIO	12.72	115	eP	42	24.00	-4.1X
			eS	44	41.00	
PPE	13.07	292	eP	42	44.50	11.9X
ELL	13.13	249	eP	42	35.60	2.1
VRI	13.63	290	eP	42	41.50	1.5
ISR	13.68	287	eP	42	43.00	2.2
OBN	13.71	339	eP	42	37.00	-4.0X
Z	16s		3.00um			
N	16s		2.50um			
E	16s		1.20um			
			ePP	42	51.00	
			eS	45	05.00	
CVO	14.01	290	eP	42	44.50	-0.5
MLR	14.13	288	eP	42	45.50	-1.3
MTUR	14.73	287	eP	43	00.50	5.9X
RMN	14.74	218	eP	42	57.50	2.8X
CMP	14.75	287	iPd	43	04.00	9.2X
SAGI	14.96	218	eP	43	00.40	2.9X
MJMA	16.70	180	eP	43	13.33	-6.6X
VAY	16.86	273	eP	43	15.60	-6.3X
SKO	17.57	276	eP	43	34.20	3.5X
OHR	18.21	274	iPd	43	40.50	1.7
	1.4s		161.00nm			5.0mb
OJC	19.03	302	ePc	43	47.30	-1.3
	1.2s		52.00nm			4.6mb
			i	43	53.10	22km
			e	44	07.80	
			e	44	21.10	
BUD	19.08	294	eP	43	48.80	-0.4
UZD	19.32	291	eP	43	52.60	0.4
SRO	19.59	295	eP	43	56.10	0.9
ZST	20.43	296	iPc	44	04.70	0.6

```
                  i     44 09.10   16km
                  i     44 26.80
SOP      20.76 294 eP    44 07.00   -0.5
VRAC     20.89 299 iPc   44 09.30    0.5
         1.2s    110.70nm          5.1mb
VKA      20.96 296 iPc   44 10.30    0.7
         2.8s    522.00nm          5.4mb
                  i     44 13.30   11km
ZAG      21.12 289 ePc   44 11.50    0.3
PTJ      21.14 289 iPc   44 10.90   -0.6
KSP      21.35 303 iPc   44 13.50    0.1
         1.1s     43.00nm          4.8mb
                  e     50 46.70
VBY      21.64 288 eP    44 17.00    0.5
ROI      21.73 272 P     44 18.00    0.5
NUR      21.85 332 eP    44 18.40    0.1
CSI      21.88 272 P     44 18.60   -0.3
LJU      22.13 290 e(P)  44 22.00    0.7
CZI      22.16 271 P     44 20.40   -1.3
CEY      22.21 289 e(P)  44 23.00    0.8
PRU      22.31 300 P     44 23.70    0.6
         1.2s     56.40nm          4.9mb
                  e     44 28.40   17km
                  eS    48 48.00
MGR      22.32 274 P     44 23.90    0.6
KAF      22.53 337 iP    44 25.30    0.2
         0.4s     6.80nm           4.5mb
VOY      22.57 290 eP    44 25.20   -0.6
                  e     44 42.00   75kmX
TRI      22.68 289 eP    44 27.20    0.4
GEC2     22.74 297 e(P)  44 28.90    1.4
         0.5s     7.70nm           4.5mb
RBL      22.78 291 P     44 28.60    0.7
BRG      22.81 302 eP    44 28.00   -0.1
         1.2s     44.00nm          4.8mb
                  i     44 33.40   19km
KHC      22.84 298 Pc    44 29.90    1.5
                  e     44 40.00   38kmX
                  e     45 04.00
                  e     46 30.00
                  eS    48 48.00
KBA      22.92 292 iPc   44 30.20    0.8
         0.6s     14.30nm          4.7mb
                  i     44 40.40   38kmX
BHG      23.24 294 eP    44 33.60    1.3
WET      23.30 297 iPc   44 35.50    2.6
BSD      23.31 313 iP    44 30.50   -2.3
         1.1s     33.00nm          4.8mb
FVI      23.32 291 P     44 33.80    0.8
CLL      23.47 303 iPc   44 35.50    1.1
         1.6s     50.00nm          4.8mb
                  i     44 42.10   24km
ARV      23.50 283 P     44 36.20    1.3
ASS      23.78 282 P     44 39.50    2.0
RSM      23.79 284 P     44 38.90    1.4
MNS      23.89 281 P     44 39.50    0.9
WTTA     24.09 293 iPc   44 40.70    0.0
         0.8s     80.60nm          5.3mb
                  i     44 43.20    9km
WATA     24.13 293 iPc   44 40.80   -0.2
CTI      24.13 290 P     44 41.40    0.4
UPP      24.14 325 iP    44 41.90    1.1
CRE      24.19 284 P     44 42.70    1.1
SFI      24.22 285 P     44 44.20    2.5
MOX      24.25 301 eP    44 44.00    2.0
         1.9s     32.00nm          4.6mb
      Z  18s      0.30um           3.8Msz
                  eS    49 26.00
PGD      24.32 285 P     44 45.70    2.7
FUR      24.32 295 iPc   44 43.30    0.5
SOTA     24.38 293 iPc   44 43.10   -0.4
         0.9s     82.80nm          5.4mb
GRF      24.42 299 ePc   44 44.60    0.9
         1.2s     48.00nm          5.0mb
      Z  18s      0.40um           4.0Msz
                  ic    44 51.90   26km
MOTA     24.45 293 iPc   44 43.60   -0.6
         1.0s     94.90nm          5.3mb
                  i     44 59.00   66kmX
OGA      24.52 292 iPc   44 45.00    0.1
         0.8s     22.00nm          4.8mb
FIR      24.67 284 eP    44 47.00    0.9
BDI      25.09 285 P     44 50.80    0.5
OSS      25.13 291 ePc   44 50.60   -0.2
MDI      25.50 289 P     44 54.00    0.0
VDL      25.61 291 ePc   44 54.90   -0.4
BOB      25.81 287 P     44 57.20    0.2

LLS      25.91 292 ePc   44 56.80   -1.2
HFS      25.98 323 eP    44 57.70   -0.6
         0.9s     33.50nm          5.0mb
      Z  15s      0.34um           4.0MszX
                  LR    54 09.00
TMA      26.05 290 ePc   44 58.40   -1.0
VAI      26.15 290 P     44 59.00   -1.0
SLE      26.20 294 ePc   44 59.20   -1.3
ZLA      26.28 293 ePc   45 00.10   -1.2
FEL      26.52 294 P     45 05.48    1.9
PGF      26.52 282 P     45 02.95   -0.7
HOFF     26.53 297 P     45 03.34   -0.1
LANF     26.63 297 P     45 04.03   -0.4
MMK      26.69 290 ePd   45 04.10   -1.2
SDF      26.87 344 iP    45 06.90    0.4
DIX      27.07 290 ePc   45 07.70   -1.1
ECH      27.08 295 P     45 07.22   -1.4
SAOF     27.27 286 P     45 09.84   -0.5
BSF      27.34 294 eP    45 10.20   -0.9
         0.9s     6.20nm           4.3mb
AUTN     27.36 286 P     45 11.29   -0.1
SBF      27.38 286 P     45 10.88   -0.5
EMS      27.40 291 ePd   45 10.70   -1.0
AURF     27.45 286 P     45 11.68   -0.4
NB2      27.48 324 P     45 11.40   -0.8
         0.5s     3.20nm           4.3mb
TOUF     27.48 286 P     45 12.44   -0.1
WIT      27.55 305 eP    45 13.00    0.3
LPG      27.60 289 eP    45 12.70   -1.0
         0.9s     17.35nm          4.8mb
LPL      27.61 289 eP    45 12.70   -1.0
         0.9s     15.05nm          4.7mb
HAU      27.63 295 eP    45 12.40   -1.2
         1.0s     28.20nm          4.9mb
      Z  22s      0.08um           3.2Msz
RSL      27.66 290 P     45 13.53   -0.5
WLF      27.71 298 P     45 15.00    0.8
SURF     27.71 287 P     45 13.93   -0.6
CALN     27.79 286 P     45 14.73   -0.5
ENN      27.87 301 eP    45 17.00    1.3
         0.7s     5.30nm           4.4mb
FRF      28.00 285 eP    45 16.20   -0.7
         0.9s     13.10nm          4.7mb
LMR      28.14 285 eP    45 17.10   -1.1
         1.2s     9.80nm           4.4mb
LRG      28.22 285 eP    45 18.30   -0.6
         1.2s     19.65nm          4.7mb
      Z  20s      0.13um           3.5Msz
DDU      28.71 299 Pd    45 24.60    1.3
         0.9s     27.50nm          5.0mb
KEV      28.79 347 eP    45 31.00    7.2X
SNF      28.91 300 Pc    45 26.30    1.3
NDI      29.31 108 eP    45 29.00    0.1
LBF      29.32 293 eP    45 27.20   -1.7
         0.9s     9.15nm           4.6mb
LOR      29.37 294 eP    45 27 60   -1.7
         0.8s     6.45nm           4.5mb
      Z  24s      0.08um           3.2MszX
SMF      29.45 292 eP    45 28.70   -1.3
         0.8s     6.70nm           4.5mb
SSF      29.63 293 eP    45 30.00   -1.6
         0.7s     4.95nm           4.4mb
AVF      29.77 293 eP    45 31.60   -1.2
         1.0s     20.60nm          4.9mb
BGF      30.15 292 eP    45 35.40   -0.8
         1.2s     12.50nm          4.6mb
MAF      30.39 292 eP    45 37.70   -0.6
         1.1s     14.40nm          4.7mb
TCF      30.62 292 eP    45 39.90   -0.5
         1.0s     11.80nm          4.7mb
CAF      30.96 289 eP    45 42.80   -0.6
LSF      31.09 292 eP    45 43.50   -1.0
         0.9s     12.60nm          4.8mb
RJF      31.27 290 eP    45 45.70   -0.4
      Z  24s      0.30um           3.9MszX
LFF      31.88 290 eP    45 50.80   -0.6
LDF      31.88 297 eP    45 50.50   -1.0
         0.8s     7.40nm           4.7mb
FLN      32.10 297 eP    45 52.30   -1.1
         1.0s     19.40nm          5.0mb
      Z  24s      0.20um           3.7MszX
GRR      32.40 296 eP    45 54.70   -1.2
         1.0s     36.60nm          5.3mb
LPF      32.56 296 eP    45 56.20   -1.2
         1.0s     28.40nm          5.2mb
EKA      33.50 309 Pd    46 04.90   -0.5
         0.9s     16 20nm          5.0mb

GKN      35.01 102 P     46 17.80   -1.1
         1.3s     101.00nm         5.6mb
ETA      35.36 305 eP    46 20.80   -0.7
ECP      35.50 304 eP    46 21.50   -1.1
DLF      35.51 306 eP    46 23.00    0.3
DMN      35.57 102 P     46 24.60    0.7
KKN      35.60 101 P     46 25.00    1.0
         1.2s     77.00nm          5.5mb
DMU      35.70 307 eP    46 24.00   -0.3
ECB      35.74 304 eP    46 24.10   -0.5
PKI      35.81 102 P     46 26.40    0.4
         1.2s     71.00nm          5.4mb
GUN      35.96 101 P     46 26.40   -0.9
HYB      37.88 121 eP    46 46.00    3.0X
GBA      40.11 126 P     47 00.00   -1.6
LZH      45.05  78 eP    47 42.50    0.5
         1.5s     40.00nm          5.1mb
      Z  19s      0.53um           4.5Msz
      E  10s      0.28um
                  pP    47 55.00   46kmX
KMI      49.93  91 Pd    48 19.50   -0.8
         1.5s     40.00nm          5.2mb
                  pP    48 24.00   15km
CHG      50.98 100 eP    48 26.00   -2.1
BJI      51.92  67 eP    48 36.50    1.6
      Z  16s      0.58um           4.7MszX
NST      53.88 102 eP    48 53.70    4.0X
TIC      56.83 246 P     49 08.00   -3.2X
KIC      56.85 245 P     49 08.00   -3.4X
LIC      57.15 245 P     49 09.60   -3.8X
LSZ      59.67 199 iPc   49 33.00    2.0
SSE      60.02  74 P     49 40.00    6.8X
         1.0s     11.00nm          4.9mb
MBC      61.03 356 eP    49 39.50    0.0
         0.8s     2.00nm           4.3mb
BUL      64.27 197 iPc   49 58.00   -3.8X
                  ipP   50 02.60   15km
BFT      69.36 195 eP    50 35.50    1.5
INK      69.42 359 eP    50 34.00    0.4
SLR      69.75 196 eP    50 30.00   -6.4X
WIN      69.82 208 iPd   50 39.00    2.1
         1.0s     30.00nm          5.4mb
IMA      70.69   8 eP    50 41.79    0.1
         1.0s     3.23nm           4.4mb
PRY      71.08 197 e(P)  50 34.00  -10.4X
         1.0s     40.00nm
JAQ      71.46 328 ePd   50 45.10   -1.2
LMN      72.19 316 eP    50 52.50    1.7
FBA      72.36   6 eP    50 51.80    0.3
         0.9s     1.10nm           3.9mb
                  pP    50 57.60   19km
BLF      73.46 197 eP    50 55.00   -3.5X
FCC      73.51 339 eP    51 04.00    5.8X
YKA      74.01 350 eP    50 59.00   -2.1
         0.8s     1.60nm           4.1mb
SLKM     76.48   8 eP    51 17.52    2.2
BALM     76.54   4 eP    51 16.24    0.5
GAC      77.46 322 eP    51 22.00    1.1
RSNY     77.89 321 eP    51 23.53    0.2
         1.0s     10.97nm          4.9mb
EEO      78.32 324 eP    51 29.00    3.3X
      S.D. = 1.1  on 150 of 175 obs.
-------------------------------------
*  MAY  04, 1993  22h 44m 07.10± 0.98s
   39.035 N ± 7.8km  142.591 E ±12.1km
   DEPTH =  10.0km  (geophysicist)
   3.5mb (  1 obs.)
 NEAR EAST COAST OF HONSHU, JAPAN(228)

OFUJ     0.72 274 iPd    44 20.80   -0.5
                  S     44 29.80
YAMJ     2.18 248 iP+    44 43.70   -0.2
                  eS    45 11.70
AOMJ     2.29 312 eP     44 46.30    0.8
                  eS    45 14.20
NIIJ     3.35 239 P      45 00.70    0.2
HOOJ     3.39   9 eP     45 00.50   -0.5
                  eS    45 38.80
KAKJ     3.42 215 P      45 00.10   -1.3
                  eS    45 40.70
MRRJ     3.58 342 eP     45 03.20   -0.5
                  eS    45 44.20
CHJJ     4.13 225 P      45 11.20   -0.4
MAT      4.27 236 eP     45 14.00    0.3
         0.6s     10.00nm
                  (S)   46 18.00
KUSJ     4.36  21 eP     45 13.00   -1.9
```

04d 22h

		eS	46 00.60			
ASAJ	5.08	0 eP	45 27.00	2.0		
WRA	59.17	189 P	54 12.40	1.9		
	0.8s	0.30nm		3.5mb		
S.D. = 1.3 on 12 of 12 obs.						

? MAY 05, 1993 00h 53m 40.17± 6.84s
19.150 N ±35.2km 67.275 W ±39.5km
DEPTH = 10.0km (geophysicist)
MONA PASSAGE (89)

APR	0.87	143 P	53 57.50	0.7		
		S	54 06.50			
MGP	1.15	171 P	54 01.80	0.1		
PORP	1.25	151 P	54 02.90	-0.4		
CLLP	1.25	148 P	54 03.10	-0.4		
		S	54 15.60			
SJG	1.48	134 iP	54 07.00	0.1		
LPR	1.57	122 P	54 08.00	-0.2		
CPD	1.70	130 P	54 10.20	0.2		
S.D. = 0.5 on 7 of 7 obs.						

& MAY 05, 1993 01h 03m 32.65s
60.160 N 152.004 W
DEPTH = 65.0km
SOUTHERN ALASKA (2)
<AEIC>. ML 2.5 (AEIC).

REF	0.48	314 iP	03 44.49	-0.7		
		eS	03 54.35			
RS1	0.48	309 iP	03 44.65	-0.6		
		eS	03 53.61			
RSO	0.48	309 iP	03 44.58	-0.7		
		iS	03 54.30			
RS2	0.48	309 iP	03 44.65	-0.6		
		iS	03 54.37			
RDW	0.52	309 iP	03 44.90	-0.7		
		eS	03 54.83			
INE	0.54	260 eP	03 44.87	-0.9		
		eS	03 55.42			
DFR	0.55	322 eP	03 44.96	-0.9		
INW	0.57	261 eP	03 45.60	-0.5		
		eS	03 55.96			
NCT	0.61	312 iP	03 45.93	-0.6		
		eS	03 56.98			
BRLK	0.69	125 eP	03 46.56	-0.8		
		eS	03 57.43			
NKA	0.70	33 eP	03 47.96	0.6		
CNPM	0.75	148 eP	03 47.32	-0.7		
		eS	03 58.98			
SLKM	0.95	68 eP	03 49.14	-1.5		
SPU	1.03	359 eP	03 50.43	-1.1		
		eS	04 05.01			
CKT	1.05	355 eP	03 50.95	-0.9		
		eS	04 05.62			
CKL	1.05	351 eP	03 51.14	-0.8		
		eS	04 06.22			
AUL	1.06	223 eP	03 51.50	-0.5		
CKN	1.07	355 eP	03 51.51	-0.6		
		eS	04 07.14			
CPAM	1.10	357 eP	03 51.90	-0.7		
		eS	04 07.72			
CRP	1.11	356 eP	03 52.15	-0.7		
		eS	04 08.16			
CP2	1.11	354 eP	03 52.23	-0.7		
		eS	04 08.10			
BGL	1.12	350 eP	03 52.46	-0.4		
PDB	1.16	252 eP	03 51.95	-1.3		
SEW	1.28	91 eP	03 53.26	-1.6		
MPA	1.36	75 eP	03 55.09	-0.8		
SUA	1.45	25 eP	03 56.45	-0.8		
CDD	1.49	215 eP	03 57.10	-0.7		
MCNL	1.54	231 eP	03 57.34	-1.0		
SYI	1.57	187 eP	03 58.25	-0.5		
PMS	1.62	47 eP	03 59.04	-0.5		
PTE	1.64	63 eP	03 58.34	-1.4		
SKT	1.84	7 eP	04 01.85	-0.8		
SVW	2.02	300 eP	04 03.28	-1.8		
SML	2.44	46 eP	04 08.88	-2.0		
KLU	3.27	63 eP	04 19.73	-2.9		
RAGM	3.66	83 eP	04 25.02	-3.0		
36 obs. associated						

& MAY 05, 1993 01h 04m 04.16s
60.167 N 151.959 W
DEPTH = 58.8km
KENAI PENINSULA, ALASKA (14)
<AEIC>. ML 3.0 (AEIC).

RDT	0.46	332 eP	04 15.09	-0.7		
RSO	0.49	307 eP	04 15.75	-0.5		
		eS	04 25.64			
RS1	0.49	307 eP	04 15.74	-0.5		
RS2	0.50	307 eP	04 15.80	-0.5		
RDW	0.53	307 eP	04 16.06	-0.6		
RDN	0.53	311 eP	04 15.84	-0.8		
		eS	04 26.04			
DFR	0.56	320 eP	04 16.11	-0.8		
INE	0.56	260 iP	04 16.26	-0.7		
		eS	04 26.47			
INW	0.60	261 eP	04 16.49	-0.8		
		eS	04 27.10			
NCT	0.62	310 eP	04 16.90	-0.7		
		iS	04 28.05			
BRLK	0.67	126 eP	04 17.49	-0.7		
		eS	04 28.23			
NKA	0.68	31 eP	04 19.24	1.1		
XLV	0.72	170 eP	04 18.08	-0.7		
CNPM	0.74	150 eP	04 18.46	-0.5		
		eS	04 29.93			
SLKM	0.93	68 eP	04 20.56	-0.8		
		S	04 34.03			
SPU	1.02	357 eP	04 21.80	-0.8		
		iS	04 36.39			
CKT	1.04	353 eP	04 22.11	-0.9		
		eS	04 36.93			
CKL	1.05	350 eP	04 22.32	-0.8		
CKN	1.07	354 eP	04 22.68	-0.6		
		eS	04 38.02			
AUL	1.09	224 eP	04 22.79	-0.7		
CPAM	1.10	355 eP	04 23.10	-0.6		
		eS	04 38.29			
AUH	1.10	224 eP	04 23.16	-0.6		
		eS	04 37.89			
CRP	1.11	355 eP	04 22.65	-1.3		
CP2	1.11	353 eP	04 23.09	-0.9		
		eS	04 39.02			
AUI	1.12	222 eP	04 23.67	-0.2		
		S	04 37.69			
BGL	1.12	349 eP	04 23.38	-0.7		
CGLM	1.14	359 eP	04 23.99	-0.4		
PDB	1.19	252 eP	04 23.58	-1.2		
		eS	04 39.31			
SEW	1.26	92 eP	04 25.63	-0.1		
		eS	04 43.43			
MPA	1.33	75 iP	04 27.08	0.3		
SUA	1.43	24 eP	04 28.20	-0.1		
		eS	04 47.03			
CDD	1.51	215 eP	04 28.33	-1.0		
		eS	04 47.32			
MCNL	1.56	232 eP	04 28.50	-1.5		
		eS	04 47.66			
SYI	1.58	188 eP	04 29.53	-0.7		
PMS	1.60	46 eP	04 30.38	-0.2		
PTE	1.61	63 eP	04 29.60	-1.1		
SKT	1.83	6 eP	04 33.06	-0.7		
		eS	04 56.42			
PMR	1.99	43 (P)	04 32.31	-3.6		
SVW	2.04	299 eP	04 33.28	-3.4		
GHO	2.19	41 eP	04 37.90	-0.9		
SML	2.42	45 eP	04 40.34	-1.7		
HIN	2.73	83 eP	04 43.04	-3.4		
		S	05 14.16			
VLZ	2.94	68 eP	04 46.03	-3.3		
		eS	05 19.98			
CVA	3.11	80 eP	04 49.75	-2.0		
KLU	3.24	63 eP	04 51.19	-2.6		
TRF	3.39	13 eP	04 54.46	-1.5		
SDG	3.89	50 eP	05 02.07	-0.8		
PAX	4.19	45 eP	05 05.24	-1.8		
GLB	4.19	69 eP	05 05.05	-2.0		
HDA	4.85	27 eP	05 14.81	-1.5		
YAH	5.09	83 eP	05 16.86	-3.0		
FBA	5.13	20 eP	05 17.14	-3.0		
PRP	6.12	26 eP	05 31.82	-2.4		
53 obs. associated						

MAY 05, 1993 01h 48m 07.80± 0.51s
24.249 S ± 6.3km 67.044 W ± 9.6km
DEPTH = 196.9 ± 9.1 km
3.7mb (1 obs.)
CHILE-ARGENTINA BORDER REGION (127)

SLA	1.49	109 iPd	48 42.00	0.4		
FSA	2.05	153 iP	48 47.10	0.2		
		i	49 15.50			
ANT	3.13	279 iP	48 59.00	-0.3		
		iS	49 34.00			
CYA	4.33	165 eP	49 14.30	0.1		
CNCB	7.45	353 P	49 55.20	-0.2		
		S	51 19.00			
RTBS	7.68	196 e(P)c	49 57.50	-0.4		
LPB	7.74	352 P	50 00.00	0.9		
		S	51 25.00			
ZOBO	8.00	353 P	50 02.00	-0.8		
		S	51 30.40			
SIV	9.95	35 P	50 38.20	10.9X		
BAO	19.84	68 eP	52 24.70	-0.8		
		i	52 25.20			
YKA	94.34	340 eP	01 06.30	0.9		
	0.5s	0.30nm		3.7mb		
S.D. = 0.7 on 10 of 11 obs.						

• MAY 05, 1993 01h 52m 43.63± 0.99s
23.619 S ± 7.6km 179.897 W ±12.0km
DEPTH = 541.5 ± 10.5 km
5.1mb (13 obs.)
SOUTH OF FIJI ISLANDS (171)

SVA	5.69	344 iPc	54 19.40	-0.3		
		eS	55 01.20			
BKM	12.58	296 iPd	55 29.00	0.3		
DZM	12.69	274 iPd	55 31.00	1.1		
WLZ	14.72	194 eP	55 52.20	2.1		
URZ	14.82	189 eP	55 49.80	-1.2		
NOZ	15.06	186 eP	55 53.60	0.2		
	0.3s	67.00nm		5.7mb		
CNZ	16.01	193 eP	56 04.30	1.4		
WAHZ	16.34	190 eP	56 04.80	-1.3		
PGZ	17.25	190 eP	56 14.60	-0.2		
MNG	17.39	192 eP	56 14.70	-1.5		
	0.3s	86.00nm		5.9mb		
		eS	59 06.20			
CAW	17.94	192 eP	56 21.30	-0.3		
MRW	18.14	193 eP	56 23.10	-0.3		
SNZO	18.21	193 P	56 25.00	0.9		
		S	59 23.00			
TCW	18.21	194 eP	56 24.00	-0.1		
ORZ	18.30	199 P	56 26.70	1.7		
	0.4s	199.00nm		6.1mb		
THZ	19.07	197 eP	56 32.90	0.6		
		eS	59 35.20			
DSZ	19.36	199 eP	56 36.40	1.3		
KHZ	19.53	195 eP	56 36.00	-0.5		
		eS	59 42.00			
LTZ	20.19	197 eP	56 41.60	-1.2		
BWZ	22.48	199 eP	57 01.80	-1.8		
ODZ	22.72	198 eP	57 05.00	-0.8		
LSCZ	23.16	200 P	57 08.50	-1.4		
TLC	23.32	200 eP	57 10.30	-1.1		
TUZ	23.84	198 P	57 15.70	-0.2		
ARMA	26.21	249 iPc	57 38.90	1.7		
	0.8s	17.00nm		4.7mb		
CTA	31.57	270 iPd	58 24.00	0.6		
	1.0s	850.00nm		6.3mb X		
OLP	32.55	257 eP	58 32.40	0.8		
TOO	32.68	237 iPc	58 34.50	1.9		
	0.4s	11.00nm		4.8mb		
STK	34.92	248 iPd	58 52.60	1.2		
	0.5s	7.80nm		4.6mb		
ASPA	42.18	260 iPd	59 50.40	0.0		
	0.5s	53.90nm		5.3mb		
		iScP	04 34.20			
		eS	05 30.00			
		eScS	08 51.90			
WB2	42.51	266 iPc	59 52.60	-0.4		
	0.5s	94.30nm		5.6mb		
FORT	46.50	249 iPd	00 23.40	-0.4		
	0.5s	6.00nm		4.4mb		
MTN	47.53	274 eP	00 30.50	-1.4		
WARB	48.28	255 eP	00 36.50	-1.0		
	0.3s	6.00nm		4.6mb		
KNA	48.76	269 iPd	00 40.90	-0.2		
KLB	55.18	247 eP	01 27.00	-0.3		
MBL	55.42	260 eP	01 28.30	-0.8		
BAL	56.22	248 eP	01 34.00	-0.6		
MUN	56.43	246 eP	01 33.00	-2.9		
MRWA	57.07	250 eP	01 40.00	-0.4		
NANU	58.94	257 iPd	01 53.10	0.0		
	0.4s	26.00nm		4.9mb		
SPA	66.52	180 iPc	02 42.80	1.5		

0.7s 148.44nm 5.6mb
LEM 71.27 271 iPc 03 11.00 0.5
MAT 71.72 326 eP 03 11.00 -1.4
0.8s 4.48nm 4.0mb X
MAW 78.05 200 iP 03 49.00 2.0
0.6s 17.44nm 4.7mb
YKA 100.07 25 ePdiff05 49.40 17.9X
0.6s 0.60nm
HFS 142.29 349 ePKP 11 10.90 -4.4X
0.3s 3.20nm
EKA 148.23 4 PKPc 11 29.00 3.7X
1.0s 5.30nm
KSP 150.06 339 ePKP 11 34.50 6.3X
e 13 44.00
CLL 150.61 343 iPKP 11 35.70 6.7X
0.9s 11.00nm
e 13 44.00
BRG 150.75 342 ePKP 11 35.40 6.2X
1.0s 22.00nm
e 13 46.60
PRU 151.36 340 ePKP 11 31.50 1.3
e 11 37.80
OHR 155.41 320 ePKP 12 05.80 29.7X
LIC 162.01 163 PKP 11 45.00 0.8
KIC 162.22 164 PKP 11 44.20 -0.2
e 12 36.80
TIC 162.42 163 PKP 11 44.40 -0.2
S.D. = 1.2 on 49 of 56 obs.

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* MAY 05, 1993 02h 01m 10.71± 1.56s
46.176 N ±10.0km 7.334 E ±29.5km
DEPTH = 10.0km (geophysicist)
SWITZERLAND (544)
ML 1.9 (LDG).

LPL 0.78 213 Pg 01 26.10 0.0
Sg 01 37.60
LPG 0.79 211 Pg 01 26.30 0.0
Sg 01 38.30
BSF 1.70 348 Pg 01 40.00 -0.6
Sg 02 01.50
FEL 1.76 15 ePn 01 41.70 0.1
HAU 1.95 340 Pg 01 44.70 0.5
Sg 02 09.90
S.D. = 0.6 on 5 of 5 obs.

? MAY 05, 1993 02h 25m 34.09± 2.92s
6.592 S ±14.1km 130.125 E ±32.6km
DEPTH = 79.7 ± 43.5 km
BANDA SEA (280)

TLE 2.78 70 iPc 26 17.10 -0.1
iS 26 42.30
MTN 6.29 171 eP 27 07.00 0.7
0.4s 63.00nm 5.4mb X
eS 28 16.00
KNA 9.20 188 eP 27 45.60 -0.6
eS 29 24.00
WB2 13.89 163 eP 28 45.60 -3.2X
ASPA 17.36 168 eP 29 32.60 -0.2
eS 32 37.10
PKI 54.96 310 P 35 00.00 0.1
S.D. = 1.0 on 5 of 6 obs.

MAY 05, 1993 02h 27m 14.59± 0.94s
35.445 N ± 7.9km 28.028 E ± 7.1km
DEPTH = 54.3 ± 12.1 km
3.9mb (18 obs.)
EASTERN MEDITERRANEAN SEA (371)

YER 1.70 7 iPn 27 43.00 0.6
ELL 2.00 49 iPn 27 48.60 1.9
CIN 2.15 1 ePn 27 49.00 0.4
iSg 28 18.00
BCK 2.88 45 ePn 28 01.00 1.8
IZM 3.01 348 iPn 28 00.80 -0.1
KHL 3.11 22 ePn 27 56.00 -6.4X
EZN 4.58 343 ePn 28 22.00 -0.9
EYL 5.38 18 eP 28 41.00 6.6X
HRI 6.74 107 eP 28 52.00 -1.3
DSI 7.25 120 eP 29 00.20 -0.3
SAGI 7.63 131 eP 29 05.20 -0.6
eS 30 28.30
OHR 8.02 317 eP 29 11.70 0.6
SKO 8.30 324 iP 29 16.20 1.3
SOI 9.96 289 P 29 37.00 -0.7
MLR 10.16 352 eP 29 38.50 -2.0
VRI 10.46 355 ePd 29 42.00 -2.5
MGR 10.92 299 P 29 47.40 -3.4X
SGO 11.26 301 P 29 54.80 -0.5
SFI 15.04 309 P 30 50.40 5.3X
KBA 16.00 321 i(P) 31 02.00 4.4X
1.2s 14.90nm 4.0mb
i 31 09.10
GEC2 17.05 326 Pn 31 11.70 1.0
KHC 17.32 327 P 31 15.20 1.3
1.0s 5.40nm 3.6mb
e 31 24.00
PRU 17.55 330 eP 31 17.80 1.1
FRF 18.35 303 eP 31 26.60 -0.1
1.0s 6.20nm 3.7mb
LRG 18.51 302 eP 31 28.50 -0.1
0.9s 6.40nm 3.8mb
LPG 19.00 308 eP 31 33.70 -1.1
0.7s 4.65nm 3.8mb
LPL 19.02 308 eP 31 34.60 -0.3
1.0s 5.60nm 3.7mb
CLL 19.19 330 eP 31 36.00 -0.6
MOX 19.29 327 eP 31 38.60 1.0
1.1s 12.00nm 4.1mb
CDF 20.08 317 eP 31 44.50 -1.6
0.7s 2.75nm 3.7mb
OBN 20.53 14 eP 31 51.00 0.4
e 31 55.00
SMF 21.31 309 eP 31 58.30 -0.4
1.0s 11.80nm 4.2mb
LBF 21.36 310 eP 31 58.90 -0.3
0.7s 3.95nm 3.9mb
LOR 21.55 311 eP 32 00.80 -0.3
0.6s 2.05nm 3.7mb
AVF 21.68 309 eP 32 01.60 -0.7
1.1s 7.55nm 4.0mb
SSF 21.69 310 eP 32 01.40 -1.0
0.8s 8.20nm 4.2mb
CAF 21.90 304 eP 32 05.90 1.3
0.9s 4.60nm 3.9mb
RJF 22.38 304 eP 32 11.40 2.1
0.9s 7.70nm 4.1mb
LPO 22.44 302 eP 32 11.90 2.1
0.7s 4.20nm 4.0mb
APO 26.71 344 eP 32 48.20 -2.1
0.3s 0.60nm 3.6mb
KIC 41.76 234 P 35 01.60 1.4
YKA 77.88 343 eP 39 07.80 0.2
0.5nm 3.6mb
S.D. = 1.2 on 37 of 42 obs.

? MAY 05, 1993 03h 06m 49.40± 1.05s
17.384 N ±11.5km 121.342 E ±10.4km
DEPTH = 33.0km (normal)
LUZON, PHILIPPINE ISLANDS (249)

CVP 0.56 55 iPc 07 00.80 0.0
iS 07 10.00
SZP 0.86 281 ePd 07 05.00 -0.1
eS 07 15.00
PIP 1.16 324 iPd 07 09.50 0.1
iS 07 22.00
BCP 1.19 216 eP 07 10.00 0.1
QVP 2.76 187 eP 07 36.50 4.2X
S.D. = 0.2 on 4 of 5 obs.

% MAY 05, 1993 03h 42m 12.28± 1.72s
40.367 S ± 7.3km 173.293 E ± 7.2km
DEPTH = 228.5 ± 18.8 km
COOK STRAIT, NEW ZEALAND (163)

ORZ 0.74 231 P 42 43.80 -0.1
S 43 04.00
TCW 1.13 139 P 42 46.10 0.0
KIW 1.33 112 P 42 47.40 -0.1
MRW 1.38 129 P 42 47.80 -0.1
S 43 10.80
BSZ 1.38 66 P 42 48.20 0.3
THZ 1.43 192 P 42 48.40 0.1
S 43 13.00
WEL 1.45 130 P 42 48.40 0.0
S 43 12.00
MNG 1.69 99 P 42 50.60 0.1
S 43 15.40
DSZ 1.78 219 P 42 51.50 0.2
MOW 1.82 126 P 42 51.40 -0.3
MTW 1.86 116 P 42 51.80 -0.1
BLW 1.93 122 P 42 52.70 0.0
KHZ 2.06 175 Pc 42 53.50 -0.3
S 43 21.50
CNZ 2.09 57 P 42 54.20 -0.1
NGZ 2.14 57 P 42 54.80 0.0
PGZ 2.29 97 P 42 56.40 0.3
WAHZ 2.44 75 P 42 57.90 0.1
LTZ 2.53 197 P 42 58.90 0.1
S 43 30.40
TEHZ 2.72 83 eP 43 01.30 0.5
WHH 2.88 60 P 43 02.10 -0.5
S.D. = 0.3 on 20 of 20 obs.

% MAY 05, 1993 03h 51m 15.96± 1.23s
38.877 S ±11.4km 174.676 E ±13.6km
DEPTH = 619.6 ± 14.8 km
NORTH ISLAND, NEW ZEALAND (159)

BSZ 0.94 168 P 52 29.30 0.3
WHH 1.42 91 P 52 29.80 -0.5
WAHZ 1.54 123 P 52 31.00 0.4
S 53 27.70
MNG 1.85 161 P 52 31.90 0.3
eS 53 28.90
PAHZ 1.86 90 P 52 31.80 0.1
MOH 1.94 98 P 52 32.20 0.3
KIW 1.99 175 P 52 32.20 0.1
URZ 2.00 73 P 52 31.10 -1.1
S 53 27.70
DIW 2.01 197 P 52 31.90 -0.3
PGZ 2.13 145 P 52 33.20 0.6
CAW 2.25 172 P 52 33.50 0.4
MRW 2.35 179 P 52 33.80 0.0
S 53 33.50
TCW 2.35 187 P 52 33.90 0.1
MTW 2.37 165 P 52 34.00 0.1
WEL 2.41 178 P 52 34.30 0.2
ORZ 2.55 220 P 52 34.30 -0.5
eS 53 32.70
BLW 2.56 166 P 52 35.20 0.4
MOW 2.58 170 P 52 35.00 0.1
NOZ 2.64 85 P 52 35.30 0.1
PUZ 2.92 75 P 52 36.00 -0.7
WCZ 2.94 355 P 52 38.00 1.2
HBZ 3.13 67 eP 52 37.20 -0.5
THZ 3.19 205 P 52 37.90 -0.3
eS 53 41.10
DSZ 3.61 217 P 52 40.30 -0.4
KHZ 3.64 193 P 52 41.10 0.3
S 53 47.40
LTZ 4.31 204 P 52 45.10 -0.3
WVZ 5.15 214 eP 52 49.90 -1.6
EWZ 5.45 211 eP 52 54.30 0.4
BWZ 6.69 211 P 53 03.50 -0.8
ODZ 6.86 205 P 53 07.00 1.2
LRCZ 7.35 211 P 53 10.30 -0.1
MHZ 7.37 211 P 53 10.80 0.2
LSCZ 7.38 211 P 53 10.80 0.2
SBCZ 7.38 211 P 53 10.50 -0.1
CMCZ 7.44 211 P 53 11.50 0.3
TLC 7.56 212 eP 53 12.50 0.1
S.D. = 0.6 on 36 of 36 obs.

MAY 05, 1993 03h 56m 36.95± 0.30s
36.371 N ± 7.3km 70.687 E ± 6.6km
DEPTH = 229.1km (3 depth phases)
4.6mb (18 obs.)
HINDU KUSH REGION, AFGHANISTAN (718)
Felt in the Chitral oreo, Pokiston.

MAIO 9.03 273 iPnd 58 41.70 -2.7
0.8s 11.71nm 4.1mb
eSn 00 07.00
NDI 9.44 142 ePd 58 48.80 -0.7
0.6s 153.33nm 5.4mb
GKN 14.45 121 P 59 51.40 -1.2
DMN 15.02 121 P 59 59.40 -0.3
KKN 15.03 121 P 59 59.60 -0.1
PKI 15.25 121 P 00 01.80 -0.8
GUN 15.37 119 P 00 02.60 -1.5
HYB 20.12 158 eP 00 57.00 2.1
1.0s 40.00nm 4.9mb
eS 04 28.00
GBA 23.47 163 P 01 29.00 1.7
S 06 08.00
LZH 26.68 81 eP 01 58.00 1.1
OBN 29.85 320 iPc 02 24.00 -0.6

05d 04h

	1.0s	24.00nm			4.8mb	
	Z 20s	0.40um			4.0Msz	
		e	03	07.00	212kmX	
		e	03	38.00		
		e	04	37.00		
CHG	30.38	118 eP	02	31.00	1.3	
CVO	34.46	300 eP	03	06.00	1.4	
MLR	34.62	299 ePc	03	08.50	2.4	
KAF	37.60	327 iP	03	30.60	-0.1	
	0.7s	10.70nm			4.5mb	
NUR	37.78	324 iP	03	32.30	0.0	
	0.3s	11.00nm			4.9mb	
SDF	39.85	335 iP	03	49.80	0.6	
KEV	40.83	338 iP	03	57.60	0.4	
UPP	41 02	322 iP	03	58.70	-0.1	
BRG	42.50	308 i(P)	04	11.20	0.1	
		e	05	00.40	233km	
GEC2	42.80	305 P	04	13.50	-0.1	
	1.0s	0.94nm			3.2mb X	
		e	04	22.20	29kmX	
HFS	43.01	322 eP	04	14.10	-1.0	
	0.4s	7.60nm			4.5mb	
YAK	44.23	35 iPc	04	24.00	-0.7	
	1.3s	36.00nm			4.6mb	
		e	05	13.00	230km	
		e	05	31.00		
		e	10	41.00		
NB2	44.33	323 P	04	24.60	-1.0	
	0.5s	9.10nm			4.4mb	
MAT	53.24	68 eP	05	33.00	-1.0	
	1.0s	7.00nm			4.1mb	
MBC	67.48	3 eP	07	09.50	0.1	
	1.0s	10.00nm			4.5mb	
BUL	68.85	222 iPd	07	19.00	0.2	
	0.9s	7.56nm			4.4mb	
MBL	73.69	133 eP	07	47.50	0.2	
INK	74.07	9 ePc	07	50.00	1.1	
	0.5s	7.00nm			4.6mb	
KIC	74.53	267 P	07	51.20	-1.2	
FBA	74.66	16 iPc	07	52.30	0.0	
	1.1s	8.70nm			4.4mb	
		pP	08	45.60	225km	
BALM	79.26	16 iPd	08	18.44	0.6	
YKA	81.39	2 eP	08	28.80	0.0	
	0.9s	12.50nm			4.6mb	
WRA	82.14	122 P	08	33.30	-0.1	
	0.8s	12.60nm			4.7mb	
WB2	82.15	122 iPd	08	33.10	-0.3	
	0.6s	25.80nm			5.1mb	
FCC	84.37	352 eP	08	50.00	6.0X	
ASPA	84.39	125 iPc	08	44.50	-0.2	
	0.7s	19.30nm			5.0mb	
JAQ	85.61	341 ePd	08	50.50	0.1	
CTA	90.72	114 eP	09	15.00	0.1	
ULM	92.94	351 eP	09	28.00	3.1X	
	S.D. = 1.0	on 38 of 40 obs.				

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* MAY 05, 1993 04h 23m 05.87± 0.55s
26.251 N ±10.1km 128.360 E ±13.7km
DEPTH = 33.0km (normal)
4.3mb (9 obs.)
RYUKYU ISLANDS (238)

SSE	7.94	309 Pn	25	01.60	-0.2	
Z	20s	0.90um				
N	12s	0.50um				
E	12s	0.60um				
MAT	13.26	37 eP	26	25.00	10.7X	
	0.9s	4.20nm				
BJI	17.10	327 eP	27	07.50	3.7X	
Z	16s	0.58um				
LZH	23.10	301 eP	28	10.00	0.0	
	1.4s	29.00nm			4.6mb	
Z	15s	0.34um			3.9MszX	
E	10s	0.28um				
		pP	28	25.00	64kmX	
CHG	28.12	261 eP	28	57.50	0.5	
WRA	46.28	172 P	31	29.60	-0.6	
	0.7s	1.50nm			4.1mb	
WB2	46.29	172 iPd	31	29.10	-1.1	
	0.6s	3.10nm			4.4mb	
		i	31	38.00		
ASPA	49.91	173 eP	31	59.90	1.4	
	0.6s	3.80nm			4.6mb	
INK	68.83	23 eP	34	10.00	1.4	
KAF	72.54	331 iP	34	30.00	-1.1	
	0.6s	2.10nm			4.3mb	
NUR	73.92	330 eP	34	39.00	-0.2	
UPP	77.33	331 iP	34	59.20	0.7	
YKA	78.46	25 eP	35	04.10	-0.6	
	0.5s	0.60nm			3.9mb	
SLL	78.82	333 eP	35	06.30	-0.5	
	0.5s	8.40nm			5 0mb	
NB2	79.35	334 P	35	08.80	-0.9	
	0.6s	2.00nm			4.3mb	
GEC2	85.25	323 P	35	41.80	1.2	
	0.7s	1.01nm			4.1mb	
		e	35	43.80		
		e	35	51.80		
	S.D. = 1.0	on 14 of 16 obs.				

MAY 05, 1993 04h 34m 01.18± 0.34s
44.259 N ± 2.0km 6.863 E ± 2.8km
DEPTH = 11.5 ± 3.2 km
FRANCE (538)
ML 2.2 (GEN), 2.0 (LDG).

PZZ	0.30	35 Pd	34	07.69	0.1	
		S	34	12.16		
STV	0.33	92 Pc	34	08.34	0.2	
		S	34	13.49		
TOUF	0.37	131 Pg	34	08.95	0.0	
		Sg	34	15.13		
ENR	0.40	94 Pc	34	09.56	0.1	
		S	34	15.46		
AUTN	0.48	123 Pg	34	11.02	-0.1	
		Sg	34	19.11		
AURF	0.50	138 Pg	34	11.33	-0.1	
CALN	0.51	178 Pg	34	11.40	-0.2	
		Sg	34	19.11		
SAOF	0.57	118 Pg	34	12.52	-0.1	
		Sg	34	20.82		
SBF	0.57	134 Pg	34	12.80	0.1	
		Sg	34	20.80		
BHB	0.65	26 P	34	13.59	-0.4	
		S	34	22.20		
RRL	0.66	355 Pd	34	13.87	-0.5	
		S	34	22.76		
FRF	0.72	193 Pg	34	14.90	-0.2	
		Sg	34	24.50		
ROB	0.72	87 P	34	15.75	0.4	
		S	34	25.40		
IMI	0.82	115 Pc	34	17.11	0.2	
		S	34	28.26		
LRG	0.88	205 Pg	34	18.30	0.3	
		Sg	34	30.50		
RSP	0.94	17 P	34	19.09	0.1	
		S	34	31.51		
LMR	0.96	196 Pg	34	19.10	-0.2	
		Sg	34	32.10		
FIN	0.97	93 P	34	19.90	0.4	
		S	34	32.24		
CDR	0.98	234 e(Pg)	34	21.10	1.4	
		e(Sg)	34	32.50		
LSD	1.22	10 P	34	23.98	0.1	
		S	34	38.91		
PCP	1.24	76 P	34	25.12	1.0	
		S	34	40.42		
LPG	1.24	356 Pg	34	24.50	0.2	
		Sg	34	41.60		
LPL	1.26	356 Pg	34	24.90	0.3	
		Sg	34	42.30		
PGF	2.31	137 Pn	34	39.10	-0.7	
		Sn	35	05.90		
	S.D. = 0.5	on 24 of 24 obs.				

MAY 05, 1993 05h 12m 18.83± 0.88s
18.697 N ± 9.5km 63.182 W ± 5.6km
DEPTH = 61.9 ± 7.0 km
3.7mb (1 obs.)
LEEWARD ISLANDS (92)

NEV	1.66	159 eP	12	46.67	0.6	
		eS	13	16.05		
CPB	1.66	129 eP	12	45.84	-0.3	
		eS	13	15.11		
BPA	2.07	142 ePc	12	52.00	0.1	
		S	13	16.70		
MGH	2.17	155 ePc	12	54.10	0.8	
LPR	2.58	262 P	12	58.90	-0.1	
CPD	2.68	256 P	13	01.20	0.8	
SJG	2.88	259 iP	13	04.00	0.7	
PAG	3.02	151 eP	13	05.70	0.4	
		S	13	40.50		
DEG	3.12	139 ePc	13	05.55	-1.1	
CLLP	3.28	260 P	13	09.30	0.4	
MGG	3.29	147 eP	13	09.40	0.4	
PORP	3.34	260 P	13	10.00	0.2	
APR	3.37	266 P	13	09.80	-0.4	
MDN	3.77	153 eP	13	15.81	0.0	
MGP	3.77	260 P	13	16.10	0.3	
FDF	4.40	153 iPc	13	24.40	-0.2	
CRM	4.48	151 iPc	13	24.66	-1.1	
BIM	4.62	154 eP	13	27.71	-0.1	
MVM	4.67	152 eP	13	27.60	-0.8	
SLW	5.13	155 eP	13	34.67	-0.2	
		eS	14	41.37		
SLB	5.26	157 eP	13	36.51	-0.3	
		eS	14	41.37		
SOA	5.64	159 eP	13	41.81	-0.3	
SVV	5.67	160 eP	13	42.28	-0.2	
		eS	14	50.21		
SVB	5.70	161 eP	13	42.64	-0.3	
		eS	14	50.69		
TCE	8.07	170 eP	14	17.40	1.5	
TRN	8.18	168 eP	14	18.34	0.9	
		eS	15	51.00		
TBH	8.42	166 eP	14	21.55	0.9	
TPP	8.50	168 eP	14	22.72	1.0	
SDV	12.14	218 eP	15	09.00	-2.4	
SIV	34.53	176 P	19	16.20	12.7X	
ZOBO	35.08	188 P	19	08.00	-0.8	
LPB	35.34	188 P	19	10.00	-0.8	
CNCB	35.60	188 P	19	13.00	-0.2	
BAO	37.25	155 iPd	19	28.00	1.5	
PPD	42.11	163 eP	20	07.60	1.0	
YKA	56.18	334 eP	21	54.20	-0.1	
	0.7s	0.60nm			3.7mb	
MBC	64.17	347 eP	23	10.00	21.3X	
	S.D. = 0.8	on 35 of 37 obs.				

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* MAY 05, 1993 05h 47m 09.17± 1.87s
43.771 N ±15.7km 18.612 E ± 7.5km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 2.6 (TTG).

PLE	0.72	128 iPgd	47	22.42	-1.0	
		iSg	47	34.52		
BRY	0.87	183 iPgc	47	25.18	-0.8	
		iSg	47	39.69		
NKY	1.00	163 iPgc	47	27.66	-0.5	
		iSg	47	44.24		
IVA	1.30	133 iPgd	47	33.18	-0.1	
		iSg	47	53.98		
HCY	1.33	184 ePg	47	33.66	0.0	
		iSg	47	54.69		
TTG	1.42	160 ePg	47	35.57	0.6	
		iSg	47	58.28		
BDV	1.49	174 iPnc	47	36.80	0.7	
		iSn	48	00.10		
PVY	1.54	139 iPnc	47	37.52	0.7	
		iSn	48	01.18		
HVAR	1.68	250 iPn	47	38.50	-0.3	
		iSn	48	01.30		
ULC	1.87	165 iPnc	47	42.10	0.6	
		iSn	48	09.31		
PTJ	2.B5	319 iP	48	01.90	6.4X	
OHR	3.11	148 e(Pn)	48	19.50	20.3X	
	S.D. = 0.7	on 10 of 12 obs.				

? MAY 05, 1993 06h 37m 17.55±13.63s
36.115 S ±77.9km 179.246 E ±85.0km
DEPTH = 33.0km (normal)
OFF E. COAST OF N. ISLAND, N.Z. (160)
ML 3.9 (WEL).

HBZ	1.66	207 eP	37	44.90	0.1	
PUZ	2.11	202 P	37	51.60	0.4	
		eS	38	17.60		
NOZ	2.68	201 P	37	59.10	-0.1	
URZ	2.74	218 P	38	00.10	0.0	
		S	38	32.00		
KUZ	2.91	256 P	38	02.70	0.1	
WLZ	3.41	238 eP	38	09.80	0.1	
	S.D. = 0.2	on 6 of 6 obs.				

? MAY 05, 1993 07h 29m 45.80± 1.44s
60.537 N ± 7.7km 4.990 E ±17.0km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)

MD 1.4 (BER).

ASK	0.12	118	eP	29 48.50	-0.2
			eS	29 50.63	
EGD	0.29	156	eP	29 52.01	0.1
			eS	29 56.58	
SUE	0.53	348	eP	29 56.54	0.0
			eS	30 04.03	
HYA	0.86	42	eP	30 02.48	0.1
			eS	30 14.82	

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

% MAY 05, 1993 07h 31m 48.91± 0.99s
39.152 N ± 7.5km 27.605 E ±12.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

IZM	0.80	200	iPg	32 04.40	-0.1
			iSg	32 14.40	
EZN	1.20	305	iPn	32 11.40	0.2
EDC	1.21	9	ePn	32 11.00	-0.4
BNT	1.23	11	ePn	32 11.50	-0 2
KCT	1.24	28	iPn	32 12.50	0.5

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

& MAY 05, 1993 07h 44m 13.85s
34.592 N 116.628 W
DEPTH = 4.4km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 2.9 (PAS).

GSC	0.72	348	ePd	44 27.33	-1.0
PEC	0.83	212	iPc	44 29.03	-1.3
SSK	0.96	247	eP	44 31.14	-1.6
PLM	1.25	189	eP	44 36.78	-0.9
ISA	1.85	306	eP	44 43.69	-3.0
GLA	2.15	135	(Pn)	44 50.36	-0.5
			ePg	44 53.75	
ABL	2.15	278	(P)	44 47.47	-3.7
TPNV	2.37	7	(P)	44 52.96	-1.3
BONR	3.62	339	(Pn)	45 11.56	-0.5

9 obs. ossociated

% MAY 05, 1993 08h 27m 19.13± 0.99s
39.110 N ± 7.5km 27.594 E ±12.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

IZM	0.76	200	iPg	27 33.90	-0.1
			iSg	27 46.40	
EZN	1.21	306	iPn	27 41.90	0.2
EDC	1.25	9	ePn	27 42.00	-0.4
BNT	1.27	11	ePn	27 42.50	-0.2
KCT	1.28	27	iPn	27 43.40	0.5

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

? MAY 05, 1993 08h 34m 40.42± 6.98s
36.630 S ±52.6km 177.073 E ±30.0km
DEPTH = 340.0 ± 42.8 km
OFF E. COAST OF N. ISLAND, N.Z. (160)

URZ	1.63	179	P	35 27.70	-0.9
			S	36 02.00	
NOZ	2.13	159	P	35 32.20	0.2
PAHZ	2.23	180	P	35 33.10	0.2
WHH	2.30	191	P	35 33.30	-0.2
MOH	2.50	179	P	35 35.40	0.4
TTH	2.91	184	P	35 39.60	1.0
WAHZ	3.12	190	P	35 40.40	-0.1
BSZ	3.59	207	eP	35 45.70	0.7
MNG	4.17	197	P	35 50.60	-0.5
			S	36 44.80	
KIW	4.55	201	P	35 54.70	-0.5
MTW	4.69	195	P	35 55.90	-0.7
CAW	4.74	199	eP	35 56.70	-0.5
MRW	4.95	201	eP	35 59.40	-0.1
MOW	4.99	196	P	35 59.90	-0.1
TCW	5.07	205	eP	36 01.30	0.5
ORZ	5.49	219	eP	36 05.50	-0.1
THZ	6.06	211	P	36 12.70	0.5
KHZ	6.39	204	P	36 16.40	0.4
LTZ	7.17	210	eP	36 25.10	-0.2

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

• MAY 05, 1993 08h 44m 34.38± 0.86s
21.053 S ± 8.3km 68.664 W ±12.0km
DEPTH = 132.7 ± 14.3 km
3.9mb (1 obs.)
CHILE-BOLIVIA BORDER REGION (124)

ANT	3.10	211	iP	45 22.50	-0.5
			iS	46 04.50	
YJA	3.15	111	ePc	45 25.50	1.4
CNCB	4.27	9	P	45 39.70	0.5
CCH	4.36	34	(P)	45 40.00	-0.2
LPB	4.53	7	P	45 42.00	-0.5
ZOBO	4.79	6	P	45 46.00	-0.2
SIV	8.79	56	P	46 49.80	10.0X
PPD	16.18	97	(P)	48 14.00	-1.5
YKA	90.84	341	eP	57 24.20	0.8
	0.7s		0.60nm		3.9mb

S.D. = 1.2 on 8 of 9 obs.

% MAY 05, 1993 08h 45m 10.82± 1.04s
39.095 N ± 7.8km 27.613 E ±12.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

IZM	0.75	202	iPg	45 25.40	-0.1
			iSg	45 37.90	
EZN	1.24	307	ePn	45 34.00	0.2
EDC	1.27	9	ePn	45 34.00	-0.3
BNT	1.28	11	ePn	45 34.00	-0.6
KCT	1.29	26	iPn	45 35.40	0.7

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

MAY 05, 1993 09h 08m 50.00± 0.30s
17.463 N ± 4.8km 83.781 W ± 4.5km
DEPTH = 10.0km (geophysicist)
4.7mb (26 obs.) 4.3Msz (13 obs.)
CARIBBEAN SEA (94)
Felt on Swon Islond.

PYT	5.38	205	eP	10 12.75	0.4
SSN	6.45	198	eP	10 27.78	0.4
STH	6.67	84	Pd	10 29.06	-1.4
GWJ	6.74	84	Pd	10 30.57	-1.0
TPX	8.53	254	(P)	10 59.00	2.4
ECO	8.98	153	iPd	10 58.25	-4.5X
OXX	12.37	270	(P)	11 47.50	-1.8
IISM	13.01	279	(P)	11 55.00	-2.6
PPM	14.19	279	(P)	12 14.00	0.2
BMG	14.69	133	iPd	12 17.50	-2.4
III	14.96	276	(P)	12 21.00	-2.5
CRX	15.21	280	(P)	12 27.00	0.1
SDV	15.37	122	eP	12 27.00	-1.9
ACX	15.38	270	(P)	12 29.00	0.2
TOV	15.58	118	eP	12 30.10	-1.4
GOGA	15.88	1	eP	12 33.79	-1.4
	0.5s		15.79nm		4.4mb
BOG	15.92	142	e(P)	12 40.00	3.8X
MRX	16.66	280	(P)	12 50.50	5.3X
PSO	17.37	158	eP	13 02.00	7.4X
MYNC	17.54	359	ePd	12 55.27	-1.0
	0.7s		34.69nm		4.6mb
			S	15 54.74	
CAR	17.75	111	iP	13 08.00	9.0X
TKL	18.12	0	(P)	13 00.93	-2.5
BUTX	18.76	322	iP	13 10.68	-0.6
			iS	16 21.76	
CEH	18.82	12	eP	13 12.06	0.0
MIAR	19.13	335	eP	13 05.85	-10.0X
	1.1s		51.97nm		4.7mb
			S	16 36.97	
OLY	19.23	341	eP	13 14.81	-2.2
GRT	19.38	346	(P)	13 12.07	-6.9X
ELC	20.32	347	eP	13 28.38	-0.6
			S	16 53.86	
FVM	21.26	345	eP	13 38.65	0.0
	1.3s		122.49nm		5.1mb
CBN	21.41	14	eP	13 42.00	1.8
LTX	21.70	307	eP	13 41.06	-2.3
			eS	17 29.89	
OCO	21.72	329	iPd	13 47.40	4.1X
MEO	21.73	325	iPc	13 44.60	1.2
MCWV	22.38	8	(P)	13 53.14	3.3X
ACO	23.48	328	iPc	14 03.60	2.9X
TYNO	25.76	7	P	14 25.50	3.0X
STCO	25.96	8	P	14 27.65	3.3X
ACTO	26.25	6	P	14 30.25	3.2X
WLVO	26.77	9	P	14 34.85	3.1X
HRV	27.05	20	P	14 34.42	0.0
	Z 18s		1.04um		4.4Msz
RSNY	28.10	14	(P)	14 43.65	-0.3
	1.2s		23.95nm		4.9mb
	Z 20s		0.85um		4.3Msz
TUC	28.50	306	P	14 52.63	4.8X
	Z 21s		0.46um		4.0Msz
			S	19 42.24	
GAC	29.00	12	eP	14 54.50	2.6
EEO	29.36	7	eP	15 00.00	4.8X
PV10	30.36	318	eP	15 03.09	-1.5
PV09	30.49	319	(P)	15 08.13	2.4
RSSD	31.59	332	(P)	15 17.12	1.9
	1.4s		13.16nm		4.7mb
	Z 19s		0.24um		3.9Msz
SRU	31.73	318	eP	15 16.94	0.4
GLA	31.93	305	(P)	15 18.77	0.6
CBM	32.11	20	P	15 19.42	-0.1
	Z 19s		0.73um		4.4Msz
			S	20 39.12	
EMUT	32.32	319	eP	15 22.71	0.9
LMN	32.42	25	eP	15 26.50	4.3X
MSU	32.47	316	eP	15 23.47	0.4
DAU	32.94	320	eP	15 27.41	0.1
ARUT	32.95	314	eP	15 25.75	-1.4
BW06	33.42	324	eP	15 31.31	0.0
	1.1s		6.54nm		4.5mb
DUG	33.80	318	eP	15 34.22	-0.3
	0.7s		4.57nm		4.5mb
	Z 19s		0.31um		4.0Msz
			S	21 06.24	
			SS	22 59.14	
ULM	34.12	346	ePd	15 39.00	2.0
HVU	34.67	320	eP	15 42.74	0.7
ISA	35.69	307	P	16 00.00	9.3X
	Z 19s		0.27um		4.0Msz
ARE	35.82	160	eP	15 54.00	1.9
BONR	36.45	311	eP	15 59.95	2.6
LCCM	36.69	327	eP	16 00.50	1.4
JAQ	36.80	8	ePc	16 00.00	0.3
ZDBO	36.90	154	P	16 02.30	0.8
	1.0s		22.50nm		4.9mb
	Z 24s		0.35um		4.1MszX
			S	21 54.00	
			LR	27 32.00	
LPB	37.15	155	P	16 04.20	0.8
	Z 16s		1.21um		4.8MszX
			S	21 52.00	
			LR	29 28.00	
CNCB	37.45	155	P	16 06.20	0.1
CMB	38.00	310	P	16 20.00	10.0X
	Z 18s		0.30um		4.1Msz
SAO	38.33	308	P	16 20.00	7.2X
	Z 18s		0.40um		4.3Msz
ARN	38.59	309	eP	16 14.35	-0.7
CCH	38.74	152	P	16 16.70	0.0
SIV	40.08	145	Pc	16 39.80	12.3X
NEW	41.00	326	eP	16 34.63	-0.1
	0.6s		5.71nm		4.5mb
DPW	41.35	325	(P)	16 35.02	-2.7
FCC	41.93	352	eP	16 47.50	5.3X
LON	42.82	321	eP	16 50.62	0.9
BAO	48.23	131	iPc	17 33.70	0.3
			i	17 39.00	
YKA	49.85	342	eP	17 43.90	-1.2
	0.7s		2.00nm		4.2mb
PPD	50.51	140	eP	17 49.20	-1.4
SIT	54.96	328	P	18 30.00	6.7X
	Z 20s		0.61um		4.7Msz
INK	59.59	341	eP	18 57.00	1.0
	1.0s		4.00nm		4.5mb
MBC	61.61	351	ePd	19 09.40	-0.3
	1.0s		4.00nm		4.5mb
PMR	63.11	331	P	19 30.00	10.3X
	Z 21s		0.27um		4.4Msz
FBA	63.37	335	eP	19 19.54	-2.0
	0.6s		3.47nm		4.7mb
DMU	68.36	38	eP	19 54.00	0.3
DLF	68.59	39	eP	19 54.00	-1.1
HON	69.52	287	P	20 10.00	8.7X
	Z 19s		0.24um		4.4Msz
EKA	70.51	37	Pd	20 06.40	-0.4
	0.8s		3.60nm		4.6mb
GRR	72.50	44	eP	20 19.50	0.6
	1.1s		35.90nm		5.4mb
FLN	72.70	43	eP	20 20.80	0.7
	1.0s		22.40nm		5.2mb

05d 09h

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      Z  20s      0.22um          4.4Msz
LDF     72.96   44 eP     20 22.30   0.7
        1.0s     15.00nm          5.0mb
MFF     73.20   46 eP     20 23.70   0.7
        0.8s      5.50nm          4.7mb
EPF     74.07   49 eP     20 29.50   1.3
        1.6s     34.85nm          5.1mb
LPO     74.41   48 eP     20 31.10   1.0
        1.2s     15.75nm          4.9mb
CAF     74.99   47 eP     20 34.20   0.7
        1.2s     14.00nm          4.9mb
MAF     75.12   46 eP     20 34.90   0.7
        1.3s      9.05nm          4.6mb
NB2     77.29   30 P      20 46.20   0.1
        0.8s      2.50nm          4.4mb
KIC     77.69   87 P      20 50.20   1.0
CLL     80.71   39 eP     21 06.00   1.2
        1.9s     20.00nm          4.8mb
BRG     81.41   39 e(P)   21 10.00   1.5
KHC     81.69   41 eP     21 12.00   2.0
                   e      21 51.00
GEC2    81.85   41 P      21 11.10   0.1
        1.6s      4.90nm          4.3mb
                   e      21 18.90
                   e      21 23.70
VBY     83.88   44 eP     21 18.70  -2.7
PKI    134 02   13 PKP    28 00.00 -10.4X
WB2    143.85  260 iPKPd  28 25.30  -2.7X
        0.6s     18.00nm
WRA    143.86  260 PKP    28 25.60  -2.4X
        0.7s     14.00nm
GBA    143.99   32 PKP    28 28.00  -0.3
ASPA   144.26  254 iPKPd  28 26.30  -2.4X
        0.7s     27.80nm
     S.D. = 1.4   on  79 of 108 obs.
-------------------------------------
   MAY  05, 1993  10h 19m 50.28± 0.69s
   63.621 N ± 5.5km  150.981 W ±10.7km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ALASKA                  (  1)
      ML 2.9 (PMR).

FBA      1.89   46 eP     20 22.66  -0.3
                 eS     20 51.74
PWA      2.04  165 eP     20 24.80  -0.3
PMR      2.21  156 eP     20 26.78  -0.7
CP2      2.44  194 eP     20 31.04   0.1
                 eS     21 03.36
PMS      2.48  164 eP     20 31.50   0.2
IMA      2.71  336 eP     20 34.97   0.1
SLKM     3.15  173 eP     20 40.93   0.1
KLU      3.17  130 eP     20 41.94   0.7
                 eS     21 22.57
RSO      3.28  196 (P)    20 44.18   1.3X
SVW      3.32  223 (P)    20 47.59   4.2X
     S.D. = 0.5   on   8 of  10 obs.
-------------------------------------
%  MAY  05, 1993  10h 23m 39.74± 2.28s
   44.496 N ±11.9km    8.553 E ±19.7km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                  (545)
      ML 1.9 (GEN).

PCP      0.05  353 P      23 41.88  -0.1
                 S      23 44.25
FIN      0.38  221 P      23 47.56   0.0
                 S      23 53.79
ROB      0.53  248 P      23 50.14  -0.3
                 S      23 58.51
ENR      0.86  252 P      23 56.51   0.2
PZZ      1.04  271 P      23 59.57   0.1
                 S      24 14.54
     S.D. = 0.3   on   5 of   5 obs.
-------------------------------------
   MAY  05, 1993  10h 30m 41.80± 0.52s
   45.927 N ± 4.2km    2.698 E ± 4.7km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                          (538)
      ML 1.8 (LDG), 1.5 (STR).

MAF      0.31  343 Pg     30 48.90   0.7
                 Sg     30 52.80
TCF      0 50  317 Pg     30 51.90   0.0
                 Sg     30 58.30
BGF      0.64    9 Pg     30 54.30  -0.3
                 Sg     31 02.80
PLDF     0 65   86 Pg     30 54.70  -0.1
                 Sg     31 04.10
LBL      0.79  151 Pg     30 57.40   0.1
                 Sg     31 08.00
LSF      0.88  292 Pg     30 58.20  -0.4
                 Sg     31 09.60
AVF      0.98   27 Pg     31 00.20  -0.1
                 Sg     31 12.40
SMF      1.07   47 Pg     31 02.00   0.0
                 Sg     31 15.50
CAF      1.10  204 Pg     31 02.50   0.1
                 Sg     31 16.70
     S.D. = 0.4   on   9 of   9 obs.
-------------------------------------
%  MAY  05, 1993  10h 36m 49.86± 1.23s
   39.763 N ±10.4km   29.064 E ±10.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.7 (ISK).

KCT      0.73  312 iPg     37 03.70  -0.5
YLV      0.84   16 iPg     37 05.30  -0.8
                 eSg     37 17.80
ALT      1.08  131 ePn     37 10.10  -0.1
EYL      1.16   46 ePn     37 11.90   0.3
CTT      1.47  341 ePn     37 17.40   1.1
     S.D. = 1.0   on   5 of   5 obs.
-------------------------------------
%  MAY  05, 1993  11h 19m 04.51± 3.32s
   44.483 N ±12.5km    8.583 E ±26.3km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                  (545)
      ML 1.7 (GEN).

PCP      0.06  335 P      19 06.74  -0.1
                 S      19 09.03
FIN      0.38  225 P      19 12.42   0.0
                 S      19 18.41
ROB      0.54  250 P      19 14.98  -0.6
                 S      19 23.28
ENR      0.87  253 P      19 21.77   0.4
                 S      19 34.04
PZZ      1.06  272 P      19 24.82   0.2
     S.D. = 0.5   on   5 of   5 obs.
-------------------------------------
%  MAY  05, 1993  11h 24m 17.99± 1.31s
   38.612 N ± 6.6km   30.816 E ±13.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 3.2 (ISK).

ALT      0.71  309 iPg     24 31.10  -0.9
                 iSg     24 42.60
KHL      1.05  255 iPn     24 38.30   0.4
GPA      1.72  347 ePn     24 48.50   0.3
ELL      1.99  201 ePn     24 52.00  -0.2
EYL      2.02  346 ePn     24 52.00  -0.5
YLV      2.25  331 ePn     24 56.00   0.1
HRT      2.38  339 ePn     24 58.00   0.3
KCT      2.51  311 ePn     25 00.00   0.5
     S.D. = 0.6   on   8 of   8 obs.
-------------------------------------
?  MAY  05, 1993  11h 31m 13.85± 1.92s
    7.617 S ±16.8km  128.794 E ±25.4km
   DEPTH = 196.1 ± 47.3 km
 BANDA SEA                       (280)

TLE      4.39   64 iPd     32 21.00   0.0
MTN      5.68  156 eP      32 38.00   0.3
                 eS      33 41.00
KNA      8.08  180 eP      33 08.90  -0.4
                 eS      34 35.00
WB2     13.39  157 eP      34 17.40  -0.1
                 eS      36 38.60
MBL     16.01  212 eP      34 50.00   0.2
     S.D. = 0.5   on   5 of   5 obs.
-------------------------------------
%  MAY  05, 1993  11h 31m 22.69± 1.27s
   38.803 S ± 7.5km  177.609 E ±10.1km
   DEPTH = 109.1 ± 13.5 km
 NORTH ISLAND, NEW ZEALAND       (159)

NOZ      0.38   61 Pc     31 38.30  -0.6
PAHZ     0.44  262 iPd    31 36.60  -2.7
                 S      31 44.00
MAHZ     0.44  151 P      31 39.70   0.4
MOH      0.49  227 Pc     31 38.80  -0.8
URZ      0.67  324 Pc     31 38.60  -2.3
                 S      31 47.10
WHH      0.87  264 P      31 42.50  -0.4
PUZ      0.89   35 Pd     31 43.50   0.5
                 S      31 56.00
TTH      0.96  219 P      31 44.90   1.3
TAZ      1.03  303 P      31 43.90  -0.5
PATZ     1.14  291 P      31 45.20  -0.5
HBZ      1.32   25 P      31 49.30   1.7
WAHZ     1.32  227 Pd     31 48.90   1.1
TEHZ     1.34  207 P      31 49.00   1.1
CNZ      1.65  255 P      31 53.20   1.3
WLZ      1.84  300 P      31 54.30   0.3
PGZ      2.09  209 P      31 58.40   1.2
MOZ      2.22  277 eP     32 00.60   1.7
BSZ      2.30  244 eP     32 02.00   1.9
MNG      2.45  221 Pd     32 02.70   0.7
                 S      32 31.40
MTW      2.86  214 P      32 07.60   0.1
KIW      2.92  224 Pd     32 09.00   0.6
CAW      3.02  219 Pd     32 09.70   0.0
BLW      3.04  212 eP     32 10.20   0.3
MOW      3.18  214 P      32 11.50  -0.3
MRW      3.30  222 P      32 13.20  -0.2
                 S      32 51.10
WEL      3.30  220 eP     32 13.30  -0.2
DIW      3.47  234 P      32 16.50   0.7
TCW      3.51  226 P      32 16.10  -0.2
QRZ      4.40  241 eP     32 28.40  -0.1
                 S      33 16.60
THZ      4.66  229 P      32 32.00   0.0
                 S      33 23.60
KHZ      4.76  219 eP     32 31.60  -1.7
                 S      33 23.30
LTZ      5.68  224 eP     32 43.90  -2.1
ODZ      8.11  218 eP     33 16.80  -2.5
     S.D. = 1.3   on  33 of  33 obs.
-------------------------------------
   MAY  05, 1993  11h 38m 27.25± 0.62s
   19.547 S ± 4.3km   68.978 W ± 4.9km
   DEPTH = 130.9 ±  5.6 km
   5.2mb ( 59 obs.)
 CHILE-BOLIVIA BORDER REGION     (124)
      Mw 5.4 (HRV), MD 5.0 (SAN). Felt
      (IV) at Arica, Chile.
      CENTROID, MOMENT TENSOR    (HRV)
      Data Used: GDSN
      L.P.B.: 13S, 16C
      Centroid Location:
      Origin Time        11:38:33.9 0.5
      Lat 20.19S 0.07 Lon  69.32W 0.08
      Dep 140.2 3.2 Half-duration  1.1
      Moment Tensor;   Scale 10**17 Nm
        Mrr=-0.45 0.06  Mtt=-0.97 0.12
        Mff= 1.41 0.13  Mrt=-0.02 0.06
        Mrf=-0.84 0.06  Mtf=-0.64 0.10
       Principal Axes:
        T  Val=  1.86  Plg=20  Azm= 77
        N       -0.64       60       204
        P       -1.22       22       339
      Best Double Couple:Mo=1.5*10**17
       NP1:Strike=119 Dip=60 Slip=-178
       NP2:         28      88       -30

CNCB     2.88   19 iPd    39 15.90   2.4
LPB      3.11   16 iPd    39 18.00   1.6
ZOBO     3.36   14 iPc    39 21.30   1.4
        1.3s     30.76nm
                   i      53 40.10
CCH      3.45   52 iPd    39 22.50   1.6
ARE      3.89  322 iPc    39 23.00  -3.7X
                 iS     40 04.50
YJA      4.17  129 iPc    39 32.00   1.4
ANT      4.35  198 iPd    39 26.80  -5.7X
                 iS     40 13.00
SLA      6.08  149 iPc    39 55.30  -1.0
FSA      7.06  158 e(P)   40 07.50  -1.8
SIV      8.32   66 P      40 37.80  11.3X
CYA      9.32  162 ePc    40 35.20  -4.6X
ZON     11.95  179 e(P)   41 13.40  -1.1
RTCV    12.27  178 ePc    41 12.30  -6.3X
TCA     12.39  162 eP     41 13.80  -6.5X
MRA     13.14  168 ePc    41 24.20  -5.7X
                   e      41 27.50
                   e      41 29.80
MDZ     13.28  180 iP     41 32.20   0.3
                   e      44 17.90
                   e      45 10.70
```

PEL	13.63	186	iPd	41	34.10	-2.2				epP	49	30.88	117kmX				epP	50	24.32	102kmX
	1.1s	1139.24nm				6.2mb				esP	49	51.16		LCCM	75.81	331	eP	50	00.20	-0.4
RFA	15.17	178	eP	41	50.50	-5.4X	EEO	66.50	352	eP	49	07.00	2.3				e	50	28.80	
			i	41	58.70					pP	49	35.00	113kmX	NTYM	76.51	319	eP	50	04.80	0.4
PPD	16.70	102	eP	42	13.90	-1.0	LIC	67.92	75	Pc	49	13.40	-0.8				epP	50	32.49	108kmX
			e	42	15.20			Z 21s		0.17um			4.3Msz	ORV	76.55	321	ePd	50	05.16	0.5
			e	42	24.50		GLD	68.00	331	ePd	49	13.53	-0.9				epP	50	33.04	109kmX
RIFB	20.21	95	ePc	42	52.50	-1.5		1.2s		59.76nm			5 3mb	TIO	77.65	51	iP	50	12.50	1.4
			e	42	55.40					epP	49	41.92	114kmX				i	50	43.00	
			e	42	56.90		GOL	68.03	330	ePc	49	14.17	-0.6	WDC	77.81	321	eP	50	09.24	-2.3
			e	43	08.50			1.0s		51.47nm			5.3mb		0.7s		11.67nm			4.8mb
BAO	20.38	82	iPd	42	54.60	-1.1				epP	49	42.49	113kmX				epP	50	38.23	113kmX
			e	43	15.30		TIC	68.10	74	Pc	49	14.60	-0.7	LBFM	77.92	322	eP	50	11.82	-0.6
			i	43	42.00		GLA	68.21	320	eP	49	14.51	-1.2				epP	50	40.18	110kmX
VAO	20.79	103	eP	42	57.80	-2.0				epP	49	43.39	116kmX	CER	78.12	121	iPc	50	15.00	1.4
			e	42	58.80		KIC	68.23	75	Pc	49	15.60	-0.6		0.8s		120.00nm			5.7mb
			i	43	00.40			0.8s		586.50nm			6.5mb X	LGPM	78.19	321	eP	50	13.66	-0.2
			e	43	10.90					S	58	07.00					epP	50	42.29	112kmX
			e	43	21.20		NVL	68.67	159	iPc	49	18.00	0.0	AVE	78.79	49	iP	50	18.80	1.7
CACB	20.93	100	iPd	43	00.70	-0.6		1.0s		29.00nm			5.1mb				i	50	49.00	
			i	43	01.60		PV08	68.75	328	eP	49	19.19	-0.1	WIN	79.25	110	iPc	50	20.70	0.6
			i	43	03.50		PV10	68.80	327	eP	49	18.16	-1.3		0.7s		37.00nm			5.3mb
			e	43	19.70					epP	49	46.18	112kmX	JBO	79.47	326	P	50	22.18	1.6
SDV	28.30	357	ePd	44	07.80	-3.0X	PV09	68.94	327	eP	49	20.02	-0.4	SUR	79.62	121	iPc	50	32.00	10.0X
TOV	29.16	358	eP	44	15.90	-2.4	PLM	69.67	319	eP	49	24.21	-0.6		1.0s		140.00nm			
SLB	34.07	14	eP	44	59.16	-2.0				epP	49	52.16	111kmX	CROR	79.77	325	P	50	23.56	1.4
BIM	34.73	14	iPd	45	04.60	-2.2	SRU	70.11	327	ePd	49	27.08	-0.3	DBO	79.82	323	P	50	23.51	1.0
MVM	34.81	14	iPd	45	05.31	-2.1				epP	49	55.01	111kmX	VGB	80.00	326	eP	50	23.88	0.5
FDF	34.92	13	iPd	45	05.89	-2.5	PEC	70.22	319	eP	49	27.99	0.0				epP	50	51.97	109kmX
OXX	45.48	321	(P)	46	37.00	1.6		1.1s		39.01nm			5.1mb	NEW	80.03	330	eP	50	22.95	-0.5
IISM	47.36	322	(P)	46	51.00	1.1				epP	49	55.26	108kmX		1.2s		25.84nm			4.9mb
III	48.12	320	(P)	46	56.50	0.4	MSU	70.54	325	ePd	49	30.55	0.4				epP	50	50.59	107kmX
PPM	48.15	321	(P)	46	58.00	1.3				epP	49	57.43	106kmX	WAH2	80.20	327	P	50	25.64	1.3
MRX	50.19	319	(P)	47	12.50	0.8	SPA	70.58	180	iPc	49	30.20	0.3	DPW	80.28	329	ePd	50	25.62	0.8
GOGA	54.45	345	eP	47	41.55	-1.6		0.9s		113.64nm			5.7mb				epP	50	53.57	108kmX
	0.8s	23.67nm				5.1mb	ARUT	70.71	324	ePd	49	31.67	0.6	SSOR	80.48	325	P	50	26.40	0.4
			epP	48	09.13	115kmX				epP	49	58.46	105kmX	IFR	80.54	49	eP	50	15.50	-11.2X
			esP	48	21.54		SSK	70.76	319	eP	49	31.90	0.5				i	50	24.50	
CEH	55.96	350	eP	47	52.97	-1.1				epP	49	58.96	107kmX	FCC	80.72	347	eP	50	32.00	5.2X
	0.7s	16.49nm				5.1mb	EMUT	70.79	327	ePd	49	31.63	0.1				pP	51	01.00	113kmX
			e	48	20.07					epP	49	58.37	105kmX	SAW	80.76	328	P	50	28.28	1.0
MYNC	56.19	345	ePd	47	54.11	-1.7				esP	50	17.97		EBG	80.82	327	P	50	29.37	1.7
	0.8s	32.94nm				5.4mb	GSC	70.94	320	eP	49	32.48	0.1	ASR	80.85	326	P	50	28.95	1.0
			epP	48	21.52	114kmX				epP	49	59.63	107kmX	WTV	81.03	328	P	50	29.66	0.9
TKL	56.67	346	eP	47	57.11	-2.0	RSSD	71.02	334	ePc	49	32.59	-0.3	LON	81.36	326	ePd	50	30.27	-0.2
			epP	48	24.90	115kmX		0.7s		23.94nm			5 1mb				epP	50	58.95	111kmX
			esP	48	37.26					epP	49	59.99	108kmX	KMOR	81.54	325	P	50	30.08	-1.4
MIAR	58.66	336	ePd	48	11.46	-1.6	DAU	71.46	327	ePd	49	35.30	-0.4	EVAL	81.54	45	eP	50	32.75	1.2
	0.9s	21.17nm				5.1mb				epP	50	03.51	112kmX	EJIF	81.81	47	eP	50	34.59	1.6
			epP	48	38.88	113kmX	DUG	72.10	326	ePc	49	39.58	0.3	BMW	81.93	325	eP	50	33.65	0.2
			ePcP	49	00.42			1.0s		38.54nm			5.1mb				epP	51	01.95	109kmX
LTX	59.00	325	ePd	48	12.95	-2.6				epP	50	06.86	107kmX	JCW	82.36	327	P	50	35.66	0.1
ELC	59.66	341	eP	48	17.74	-2.1	ABL	72.13	318	eP	49	39.77	0.1	GMW	82.38	327	eP	50	35.54	-0.2
			epP	48	45.38	113kmX				epP	50	07.19	108kmX				epP	51	04.38	111kmX
FVM	60.67	341	ePd	48	24.80	-1.9	ISA	72.20	319	eP	49	40.13	0.3				esP	51	17.02	
	0.7s	91.16nm				5.9mb		0.7s		25.14nm			5.1mb	MCW	83.13	327	ePd	50	40.33	0.8
			epP	48	52.00	111kmX				epP	50	07.50	107kmX				epP	51	07.88	105kmX
FNO	60.81	334	e(P)	48	25.00	-2.7				esP	50	22.90		ELUQ	83.21	46	eP	50	41.86	1.6
MEO	60.92	332	iPc	48	26.10	-2.4	BW06	72.40	330	ePd	49	40.25	-0.8	EPLA	83.31	43	eP	50	41.72	1.0
OCO	61.07	334	iPd	48	29.70	0.2		1.2s		22.10nm			4.8mb	PGC	83.43	327	eP	50	42.00	1.1
MBO	61.30	61	iPd	48	31.60	0.2	BCH	72.89	318	eP	49	44.73	0.8		0.7s		28.00nm			5.2mb
HRV	61.79	358	eP	48	33.17	-0.9				epP	50	11.83	106kmX				pP	51	10.00	107kmX
	0.9s	63.62nm				5.6mb	TNP	73.06	322	eP	49	45.44	0.4	EBAN	83.84	46	iPc	50	44.48	1.1
			epP	49	00.98	113kmX		1.0s		27.62nm			5.0mb	ERUA	83.90	41	eP	50	44.67	1.1
KING	62.56	67	P	48	37.30	-2.5				epP	50	13.42	110kmX	GRM	83.95	123	iPd	50	46.00	1.8
ACO	62.78	333	iPd	48	39.40	-1.4	HVU	73.24	327	eP	49	45.36	-0.5		0.6s		50.00nm			5.6mb
MAMG	63.48	67	P	48	40.80	-5.1X				epP	50	13.37	110kmX	FRS	84.10	119	iPd	50	46.00	1.1
SNA	63.92	160	iPc	48	47.80	-0.1	JAQ	73.28	356	eP	49	44.00	-1.6		1.0s		70.00nm			5.5mb
	0.8s	30.00nm				5.3mb				pP	50	13.00	114kmX	GUD	84.87	44	eP	50	49.52	0.9
RSNY	63.98	356	ePd	48	47.72	-0.8	ULM	73.44	342	ePd	49	48.50	1.8	BLF	85.03	119	eP	50	50.00	0.2
	0.8s	38.25nm				5.4mb				pP	50	16.00	108kmX		0.7s		33.00nm			5.3mb
			epP	49	15.45	112kmX	PHAM	73.50	319	eP	49	48.04	0.7	MAW	86.21	163	eP	50	55.80	1.1
			esP	49	38.16					epP	50	15.51	107kmX		0.7s		11.11nm			4.9mb
KDS	64.36	65	iPc	48	57.30	5.8X	BONR	73.61	321	eP	49	49.30	1.0	ETOR	86.33	44	eP	50	57.01	1.2
ALQ	64.84	326	ePd	48	53.52	-1.0				epP	50	16.18	105kmX	ECHE	86.46	46	eP	50	58.10	1.7
	0 8s	11.20nm				4.8mb	MEMM	73.79	321	eP	49	49.83	0.9	KSR	86.71	116	iPd	51	08.50	10.3X
			epP	49	21.02	111kmX				epP	50	17.78	110kmX		1.0s		80.00nm			
LMN	65.19	3	ePd	48	58.10	1.8	MMPM	73.81	321	ePd	49	49.71	0.2	PRY	86.84	117	eP	50	58.00	-0.7
			pP	49	27.50	119kmX				epP	50	17.08	107kmX		0.5s		33.00nm			5.5mb
GAC	65.20	355	eP	48	57.00	0.7	KVN	74.22	322	eP	49	51.84	0.1				i	51	08.50	
			pP	49	25.00	113kmX				epP	50	19.57	108kmX	ECRI	86.92	43	eP	50	59.39	0.8
TUC	65.27	322	eP	48	56.54	-0.6	CMB	74.90	320	eP	49	54 93	-0.5	SLR	87.93	116	iPc	51	04.00	0.0
	1.2s	21.62nm				5.0mb		1.1s		26.37nm			4.9mb				i	51	14.00	
			epP	49	23.75	109kmX				epP	50	23.62	113kmX	YKA	89.33	341	P	51	09.70	0.2
			esP	49	42.58		ARN	75.16	319	eP	49	57.47	0.5		0.7s		31.00nm			5.5mb
CBM	66.17	1	eP	49	01.98	-0.5				epP	50	24.53	105kmX	LFF	90.11	42	iPc	51	13.60	0.1
	0.9s	40.76nm				5.3mb	COE	75.19	319	eP	49	57.95	0.9		0.9s		47.35nm			5.6mb

05d 11h

BUL	90.18	111	iPd	51	15.50	0.9
			i	51	25.40	
			iPP	54	46.80	
DLF	90.24	32	eP	51	24.60	10.8X
LPO	90.27	42	iPc	51	14.30	0.0
	0.9s	18.35nm			5.2mb	
MFF	90.35	40	iPc	51	14.40	-0.1
	0.9s	13.25nm			5.0mb	
DMU	90.38	32	eP	51	25.20	10.7X
LPF	90.50	38	iPc	51	14.60	-0.6
	1.1s	20.25nm			5.2mb	
RJF	90.77	42	iPc	51	16.20	-0.3
	1.0s	20.00nm			5.2mb	
GRR	90.78	38	iPc	51	15.80	-0.7
	1.2s	24.10nm			5.2mb	
CAF	90.94	42	iPc	51	17.30	-0.1
	1.0s	15.40nm			5.1mb	
FLN	91.18	38	iPc	51	18.00	-0.3
	1.0s	16.60nm			5.2mb	
LDF	91.31	38	iPc	51	18.30	-0.6
	1.1s	23.95nm			5.3mb	
TCF	91.65	41	eP	51	20.40	-0.2
	0.9s	6.90nm			4.8mb	
MAF	91.84	41	eP	51	21.30	-0.1
	1.1s	12.70nm			5.0mb	
BGF	92.16	41	iPc	51	22.70	-0.2
	1.0s	20.60nm			5.3mb	
AVF	92.58	41	eP	51	24.30	-0.5
	1.1s	12.20nm			5.1mb	
SSF	92.79	41	eP	51	25.00	-0.8
	1.1s	11.00nm			5.0mb	
SMF	92.82	41	iPc	51	25.70	-0.2
	1.0s	14.60nm			5.2mb	
EKA	92.99	31	P	51	26.00	-0.5
	1.0s	5.50nm			4.8mb	
LBF	93.05	41	eP	51	26.50	-0.5
	1.2s	6.85nm			4.8mb	
LOR	93.10	41	eP	51	26.50	-0.7
	1.0s	6.20nm			4.8mb	
LRG	93.10	45	eP	51	27.70	0.4
	0.8s	6.05nm			4.9mb	
LMR	93.15	45	iPc	51	27.60	0.1
	0.9s	8.50nm			5.0mb	
LPL	94.18	43	eP	51	33.10	0.6
	1.1s	6.60nm			4.9mb	
LPG	94.18	43	eP	51	33.40	0.8
	1.1s	7.35nm			4.9mb	
WTTA	97.98	43	iPd	51	50.00	0.4
	1.1s	13.60nm			5.4mb	
			i	52	00.20	
KBA	99.01	43	iPc	51	53.70	-0.7
	0.7s	4.90nm			5.2mb	
			i	52	03.70	
KLU	100.93	332	ePdiff	52	01.86	-0.7
			epP	52	30.53	
NB2	102.26	29	Pdiff	52	15.70	7.2X
	0.9s	2.20nm			4.9mb	
MLR	107.06	47	ePKP	56	46.00	6.7X
VRI	107.66	47	ePKP	57	00.00	19.7X
CVD	108.31	49	ePKP	56	50.00	8.5X
ASPA	131.60	208	ePKP	57	26.10	-0.6
WRA	134.58	212	PKP	57	29.00	-3.5X
	0.6s	9.70nm				
KUSJ	143.24	317	ePKP	57	43.70	-3.8X
ASAJ	144.01	320	ePKP	57	48.40	-0.4
MRRJ	145.89	319	ePKP	57	53.10	1.1
IRK	146.92	8	ePKPc	57	57.80	4.4X
	1.5s	33.00nm				
			e	58	26.20	
			e	58	41.30	
GUA	147.01	265	ePKP	57	56.50	1.9
	1.1s	536.71nm				
GUMO	147.06	265	ePKPd	57	56.60	1.9
	1.1s	370.10nm				
PJG	147.06	265	ePKP	57	56.60	1.9
TLE	147.08	223	ePKPd	57	58.70	3.9X
OFUJ	147.17	313	PKP	57	57.00	2.8X
GBA	147.31	95	PKP	57	56.00	0.9
NDI	147.92	67	ePKP	57	57.00	1.3
YAMJ	148.73	313	ePKP	58	01.30	4.5X
HYB	149.16	89	ePKP	58	00.50	2.5X
	1.0s	80.00nm				
			e	58	07.50	
			e	58	34.70	
MAT	150.78	311	ePKP	58	06.00	6.1X
LEM	153.58	172	iPKPd	58	14.00	9.3X
GKN	154.47	66	PKP	58	00.00	-5.6X
LZH	162.35	20	ePKP	58	17.50	3.0X
	1.2s	18.00nm				
			pP	58	47.50	
			sP	59	02.00	
CHG	168.56	92	ePKP	58	21.00	1.1

S.D. = 1.2 on 167 of 199 obs.

? MAY 05, 1993 11h 40m 00.22± 3.48s
68.828 N ±15.5km 28.787 E ±34.2km
DEPTH = 10.0km (geophysicist)
FINLAND-RUSSIA BORDER REGION (723)

ARA0	1.37	303	Pn	40	25.30	-0.1
			Lg	40	50.27	
			Rg	41	02.89	
TRO	3.60	288	eP	40	57.26	0.1
FIA0	7.50	190	Pn	41	52.20	0.0
			Sn	43	22.67	
			Lg	44	02.94	
HFS	10.84	224	eP	42	38.30	-0.1
	0.2s	1.10nm			4.8mb	X
NRA0	10.91	230	Pn	42	39.24	0.0
			Sn	44	46.64	
			Lg	46	00.42	

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

? MAY 05, 1993 11h 51m 52.65± 2.24s
6.571 S ±22.5km 129.762 E ±20.9km
DEPTH = 154.0 ± 17.2 km
BANDA SEA (280)

TLE	3.11	73	iPc	52	42.00	-0.1
			iS	53	16.00	
MTN	6.38	168	eP	53	26.00	0.5
	0.3s	51.00nm			5.3mb	X
			eS	54	30.00	
KNA	9.17	186	eP	54	02.20	-0.6
			eS	55	38.00	
W82	14.02	162	eP	55	02.20	-3.6X
			i	55	09.10	
			eS	57	29.50	
M8L	17.40	213	eP	55	48.00	0.4
ASPA	17.46	167	eP	55	47.70	-0.6
			eS	58	50.50	
WARB	19.73	188	eP	56	12.70	0.1
CTA	20.90	132	eP	56	26.00	1.6
			ic	57	19.50	
BRS	30.11	136	iPc	57	48.50	-1.4

S.D. = 1.2 on 8 of 9 obs.

? MAY 05, 1993 12h 25m 46.97± 6.40s
42.541 N ±58.2km 24.608 E ±12.4km
DEPTH = 10.0km (geophysicist)
BULGARIA (359)

KNT	1.88	223	ePn	26	19.74	0.3
			eSn	26	45.74	
SOH	1.96	209	ePn	26	20.76	0.1
			iSn	26	48.74	
ALN	1.96	146	ePn	26	20.62	0.0
			iSn	26	47.96	
THE	2.27	213	ePn	26	24.78	-0.3
			eSn	26	55.74	
GRG	2.29	227	ePn	26	25.22	-0.2
PAIG	2.70	195	ePn	26	31.28	0.0
			iSn	27	06.74	
MLR	3.10	18	ePc	26	44.00	7.0X
VRI	3.66	24	ePc	26	52.50	7.7X

S.D. = 0.3 on 6 of 8 obs.

? MAY 05, 1993 12h 49m 50.91± 2.11s
31.241 S ±25.8km 68.245 W ±13.8km
DEPTH = 99.5 ± 25.0 km
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.21	245	iPc	50	05.20	-0.4
			S	50	15.70	
CFA	0.36	179	iPc	50	06.50	0.5
			S	50	17.80	
RTCB	0.53	243	ePd	50	07.00	-0.2
			S	50	18.50	
RTBS	1.11	248	e(P)c	50	13.00	0.2
			S	50	29.90	
RTPR	1.76	58	iPd	50	21.10	0.3
			S	50	43.10	
TCA	3.13	93	iPd	50	39.00	-0.3
			(S)	51	15.00	

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

% MAY 05, 1993 13h 09m 59.34± 0.74s
44.388 N ± 6.3km 7.381 E ± 7.8km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.7 (GEN).

STV	0.15	196	P	10	02.94	0.1
			S	10	05.55	
ENR	0.16	170	P	10	02.85	-0.3
			S	10	05.69	
PZZ	0.23	300	P	10	04.59	0.2
			S	10	08.62	
ROB	0.36	105	P	10	07.02	0.2
			S	10	12.87	
BH8	0.46	350	P	10	08.48	-0.2
			S	10	15.12	

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

% MAY 05, 1993 13h 18m 41.87± 0.60s
41.173 S ± 6.3km 172.428 E ± 6.3km
DEPTH = 252.9 ± 7.2 km
SOUTH ISLAND, NEW ZEALAND (162)

ORZ	0.35	13	P	19	14.70	0.1
			S	19	36.50	
THZ	0.69	149	P	19	15.80	0.1
			S	19	37.80	
DSZ	0.74	219	P	19	15.90	0.0
DIW	1.19	72	P	19	18.60	0.0
TCW	1.40	92	P	19	19.80	-0.2
KHZ	1.50	147	P	19	20.30	-0.4
			S	19	46.30	
LTZ	1.61	184	P	19	21.60	-0.1
			eS	19	47.60	
MRW	1.72	93	P	19	22.20	-0.3
WEL	1.77	94	eP	19	22.70	-0.2
KIW	1.90	81	P	19	24.00	0.0
CAW	1.99	89	P	19	24.70	-0.1
MOW	2.14	98	P	19	26.10	-0.1
WVZ	2.28	213	P	19	27.70	0.2
			S	19	58.70	
BLW	2.30	96	P	19	28.00	0.3
MTW	2.32	91	P	19	28.00	0.1
BSZ	2.35	55	P	19	28.50	0.3
MNG	2.38	78	Pd	19	28.50	0.0
			eS	20	00.00	
EWZ	2.61	206	eP	19	31.50	0.7
PGZ	2.97	81	eP	19	34.80	0.3
CNZ	3.10	52	eP	19	35.70	-0.4
MOZ	3.23	35	eP	19	37.50	0.1
BWZ	3.84	208	P	19	44.30	0.0
ODZ	4.08	198	P	19	47.90	0.7
			S	20	36.20	
LRCZ	4.50	209	eP	19	52.20	-0.1
LSCZ	4.53	209	eP	19	52.10	-0.5
SBCZ	4.53	209	P	19	52.00	-0.6
URZ	4.64	53	P	19	53.10	-0.7
NOZ	5.01	61	P	19	59.20	0.8
PUZ	5.46	57	eP	20	04.00	0.0

S.D. = 0.4 on 29 of 29 obs.

* MAY 05, 1993 13h 40m 59.19± 0.95s
40.983 N ±16.3km 33.132 E ±11.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

KAS	0.62	51	ePg	41	10.20	-1.5
			iSg	41	22.00	
BZK	1.18	34	iPn	41	22.30	1.1
KVT	2.21	87	ePn	41	36.90	0.5
EYL	2.30	261	ePn	41	34.20	-3.6X
HRT	2.63	268	ePn	41	42.30	-0.2
ALT	3.02	231	eP	41	48.00	0.1

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

? MAY 05, 1993 14h 07m 32.42± 8.80s
62.196 N ±32.1km 1.777 E ±68.2km
DEPTH = 10.0km (geophysicist)
NORWEGIAN SEA (642)
MD 2.6 (BER).

SUE	1.83	127	eP	08	04.79	0.7
			eSg	08	24.04	
HYA	2.34	114	eP	08	12.53	1.0
ASK	2.38	135	eP	08	12.11	0.1

			eS	08 36.90		
EGD	2.55	138	eP	08 14.50	0.0	
			eS	08 41.40		
MOL	2.71	80	eP	08 17.20	0.4	
			eS	08 45.66		
ODD1	3.29	132	eP	08 24.41	-0.6	
			eS	08 58.99		
KMY	3.45	149	eP	08 27.00	-0.2	
			eS	09 02.98		
NRA0	4.91	103	Pn	08 46.46	-1.5	
			Sn	09 36.16		
			Lg	09 58.23		
S.D. = 0.9			on	8 of 8 obs.		

? MAY 05, 1993 14h 29m 33.32± 1.31s
32.561 N ±14.7km 142.630 E ±23.5km
DEPTH = 33.0km (normal)
4.6mb (5 obs.)
SOUTH OF HONSHU, JAPAN (211)

MAT	5.39	319	eP	30 53.00	-0.5	
			eS	31 51.00		
GUN	48.76	280	P	38 17.60	0.1	
PKI	49.27	280	P	38 21.80	0.4	
KKN	49.30	280	P	38 22.20	0.7	
	0.8s		13.00nm		5.0mb	
DMN	49.51	280	P	38 21.40	-1.8	
GKN	49.76	281	P	38 25.20	0.2	
	0.6s		9.00nm		5.0mb	
WB2	52.80	190	eP	38 47.10	-0.6	
	0.4s		2.40nm		4.5mb	
ASPA	56.53	190	eP	39 31.30	16.5X	
	0.6s		3.20nm			
GBA	61.99	269	P	39 54.00	1.2	
KAF	72.74	334	iP	40 59.90	0.2	
	0.4s		1.70nm		4.4mb	
NB2	78.70	338	P	41 33.70	0.2	
	0.8s		1.50nm		4.1mb	
S.D. = 0.9			on	10 of 11 obs.		

? MAY 05, 1993 14h 29m 36.37± 1.16s
39.135 N ± 7.7km 27.592 E ±14.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

IZM	0.78	199	iPg	29 51.60	0.0	
			iSg	30 04.10		
EZN	1.20	306	ePn	29 58.70	0.0	
EDC	1.23	10	ePn	29 59.00	-0.2	
BNT	1.25	12	ePn	29 59.70	0.2	
S.D. = 0.3			on	4 of 4 obs.		

% MAY 05, 1993 15h 00m 30.61± 0.85s
40.278 N ± 7.8km 29.163 E ± 6.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.5 (ISK).

YLV	0.33	29	iPg	00 37.70	0.2	
KCT	0.62	268	iPg	00 43.70	0.6	
HRT	0.67	35	iPg	00 43.30	-0.6	
BNT	0.95	275	iPg	00 47.70	-1.1	
			eSg	01 02.00		
CTT	1.03	328	iPg	00 50.70	0.6	
ALT	1.42	149	ePn	00 56.80	0.2	
S.D. = 0.9			on	6 of 6 obs.		

% MAY 05, 1993 15h 16m 55.67± 1.00s
39.109 N ± 7.5km 27.627 E ±12.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

IZM	0.76	202	iPg	17 10.60	0.0	
			iSg	17 22.60		
EZN	1.24	306	ePn	17 18.70	0.1	
EDC	1.25	8	ePn	17 19.00	0.1	
BNT	1.27	10	ePn	17 18.70	-0.5	
KCT	1.27	26	iPn	17 19.50	0.2	
S.D. = 0.4			on	5 of 5 obs.		

% MAY 05, 1993 15h 20m 31.98± 0.73s
41.072 N ± 7.6km 28.622 E ± 5.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

CTT	0.16	298	iPg	20 35.60	-0.1	
ISK	0.33	91	iPg	20 39.40	0.6	
			eSg	20 43.90		
HRT	0.83	107	ePg	20 47.20	-0.9	
KCT	0.85	194	ePg	20 49.20	0.9	
EDC	0.93	219	ePg	20 49.00	-0.7	
DMK	0.99	319	iPg	20 51.00	0.2	
			iSg	21 06.00		
S.D. = 0.9			on	6 of 6 obs.		

? MAY 05, 1993 15h 33m 57.06± 7.11s
34.752 S ±72.2km 70.924 W ±23.2km
DEPTH = 100.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)

CHCH	0.85	15	iP	34 16.20	0.0	
			iS	34 30.67		
LNV	0.89	333	iP	34 16.45	-0.1	
			iS	34 32.09		
PCH	1.18	17	iP	34 19.99	0.1	
			iS	34 37.51		
LCCH	1.38	337	iP	34 22.33	0.1	
			iS	34 41.46		
PEL	1.62	7	iP	34 25.10	-0.1	
			iS	34 46.65		
S.D. = 0.2			on	5 of 5 obs.		

• MAY 05, 1993 17h 24m 32.95± 0.86s
17.340 N ±14.9km 94.712 W ± 8.6km
DEPTH = 160.1 ± 10.9 km
3.8mb (4 obs.)
CHIAPAS, MEXICO (61)

OXX	1.94	263	iPd	25 07.50	-1.1	
			iS	25 34.00		
SCX	2.08	107	iP	25 11.00	1.1	
			(S)	25 36.50		
IISM	3.02	303	iP	25 20.00	-1.4	
TPX	3.38	135	(P)	25 32.00	5.9X	
IIT	3.80	297	iP	25 32.23	0.4	
PPM	4.10	295	iPd	25 37.00	1.1	
			(S)	26 13.00		
IIA	4.16	296	iP	25 36.93	0.7	
III	4.64	284	iPc	25 42.24	-0.6	
			(S)	26 17.00		
UNM	4.69	296	iP	25 44.50	1.0	
			(S)	26 22.00		
ACX	4.94	265	iP	25 44.00	-2.6	
			(S)	26 32.00		
CRX	5.15	294	iP	25 51.00	1.4	
MRX	6.58	292	iP	26 09.87	1.4	
MIAR	17.16	3	iPc	28 24.09	-0.5	
MEO	17.71	349	iPc	28 29.80	-1.3	
FNO	18.00	353	iPc	28 34.40	0.1	
OCO	18.28	353	iPc	28 39.00	1.8	
OLY	18.32	8	iPd	28 36.40	-1.2	
MYNC	20.03	26	iPd	28 54.38	-0.9	
ELC	20.45	13	iPc	28 58.33	-1.1	
			epP	29 15.45	83kmX	
ULM	32.84	359	eP	30 54.50	1.4	
JAQ	39.27	18	eP	31 46.00	-1.3	
YKA	47.21	348	eP	32 50.70	-0.4	
	0.6s		1.20nm		3.7mb	
MBC	60.30	353	eP	34 27.00	0.6	
EKA	76.80	36	P	36 08.00	-0.2	
	0.8s		4.40nm		4.2mb	
NB2	82.46	28	P	36 39.60	1.2	
	0.8s		1.50nm		3.8mb	
APO	83.88	28	eP	36 46.00	0.4	
	0.4s		0.70nm		3.8mb	
S.D. = 1.3			on	25 of 26 obs.		

MAY 05, 1993 18h 06m 51.21± 0.42s
14.349 N ± 6.8km 40.079 E ± 5.9km
DEPTH = 10.0km (geophysicist)
4.6mb (26 obs.) 4.4Msz (1 obs.)
ETHIOPIA (558)
MD 4.9 (ARO).

ARO	3.89	136	ePd	07 51.00	-1.4	
			S	08 52.00		
DHJN	4.65	44	eP	08 03.33	-0.1	
ABHA	4.65	33	iP	08 01.73	-1.7	
AAE	5.44	194	Pn	08 15.70	1.0	
NAI	15 86	192	iP	10 47.00	10.5X	
BHL	19.88	349	P	11 26.00	0.3	
			S	15 20.00		

TAB	24.26	12	eP	12 12.00	2.3	
MAIO	27.92	35	eP	12 45.00	1.3	
			eS	17 36.00		
OHR	31.51	331	eP	13 10.50	-5.1X	
CVD	31.60	343	eP	13 36.00	19.7X	
			e	33 20.00		
SKO	31.91	333	eP	13 19.50	0.5	
MLR	33.26	342	eP	13 33.50	2.5	
			e	30 16.00		
			e	33 12.12		
CMP	33.35	341	ePd	13 34.00	2.4	
VRI	33.38	343	eP	13 33.50	1.7	
			e	30 22.00		
			e	33 19.00		
GBA	36.23	86	P	13 57.00	0.4	
UZD	36.85	335	eP	14 02.00	0.6	
BUD	37.40	336	e(P)	14 07.00	1.0	
PTJ	37.44	332	eP	14 06.90	0.4	
SRO	37.94	336	eP	14 11.00	0.4	
ZST	38.73	335	eP	14 17.20	0.0	
VRAC	39.83	336	eP	14 27.10	0.9	
	2.7s		309.90nm		5.5mb	
GEC2	40.67	333	P	14 33.30	-0.1	
	0.9s		4.90nm		4.2mb	
			e	14 37.80		
OBN	40.75	357	eP	14 35.00	1.2	
	2.0s		96.00nm		5.2mb	
Z	20s		0.50um		4.4Msz	
FRF	40.79	322	eP	14 34.20	-0.1	
	1.1s		10.25nm		4.5mb	
KHC	40.94	333	eP	14 34.60	-0.9	
			e	14 38.10		
			e	15 04.50		
KSP	41.17	337	eP	14 37.40	0.1	
PRU	41.19	335	eP	14 38.00	0.6	
			e	15 42.00		
LPG	41.87	325	eP	14 43.20	-0.3	
	0.8s		2.70nm		4.0mb	
LPL	41.89	325	eP	14 42.40	-1.2	
	0.8s		7.50nm		4.5mb	
BRG	42.11	335	iP	14 45.60	0.6	
	2.0s		36.00nm		4.8mb	
			e	16 40.00		
GRF	42.39	332	eP	14 47.60	0.2	
CLL	42.83	335	eP	14 51.00	0.1	
	1.8s		20.00nm		4.5mb	
MOX	42.91	334	eP	14 51.40	-0.2	
	2.0s		34.00nm		4.7mb	
BSF	43.29	327	eP	14 54.30	-0.6	
	1.0s		12.40nm		4.6mb	
CDF	43.41	328	eP	14 54.50	-1.3	
	0.9s		4.10nm		4.2mb	
GKN	43.48	64	P	14 56.60	-0.1	
DMN	43.83	65	P	15 00.00	0.3	
KKN	44.01	65	P	15 00.40	-0.7	
PKI	44.09	65	P	15 01.80	-0.1	
SMF	44.19	324	eP	15 01.00	-1.0	
	0.7s		3.75nm		4.3mb	
CAF	44.29	321	eP	15 03.30	0.4	
	1.4s		22.65nm		4.8mb	
LBF	44.30	325	eP	15 02.20	-0.8	
	0.8s		9.40nm		4.7mb	
LOR	44.53	325	eP	15 04.00	-0.8	
	0.9s		8.70nm		4.6mb	
Z	23s		0.08um		3.5MszX	
AVF	44.55	324	eP	15 03.90	-1.0	
	0.9s		5.55nm		4.4mb	
GUN	44.55	65	P	15 04.20	-1.4	
SSF	44.61	325	eP	15 04.50	-0.9	
	1.0s		10.00nm		4.7mb	
MAF	44.68	323	eP	15 05.80	-0.2	
	0.9s		5.10nm		4.4mb	
BGF	44.71	324	eP	15 05.90	-0.3	
	1.3s		29.95nm		5.0mb	
LPO	44.71	320	eP	15 06.40	0.2	
	1.0s		9.60nm		4.7mb	
LFF	45.11	321	eP	15 09.60	0.1	
	1.0s		17.80nm		5.0mb	
LSF	45.31	323	eP	15 10.70	-0.3	
	0.8s		5.90nm		4.6mb	
NUR	47.45	350	eP	15 27.00	-0.7	
UPP	48.34	345	iP	15 33.80	-0.9	
APO	49.90	343	eP	15 45.10	-1.6	
	0.5s		4.10nm		4.6mb	
NB2	51.08	342	P	15 53.90	-1.8	
	0.9s		7.30nm		4.6mb	
EKA	52.73	331	P	16 07.00	-1.2	

05d 18h

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        1.8s     21.10nm          4.8mb
BJI    70.33   52 eP     18 07.50   0.3
     Z  16s       1.23um           5.3MszX
     E  15s       1.05um
MBC    88.74 355 eP     19 45.50  -0.4
WRA    98.70 108 P      20 35.00   2.4
       0.6s       0.30nm          4.1mb
     S.D. = 1.1  on  56 of  59 obs.
-----------------------------------------
   MAY  05, 1993  18h 21m 31.73± 0.11s
   39.097 N ± 2.6km  141.678 E ± 2.7km
   DEPTH =  99.8km  ( 33 depth phases)
   5.3mb ( 93 obs.)
 EASTERN HONSHU, JAPAN              (227)
      Mw 5.4 (HRV). Felt (IV JMA) at
      Morioka; (III JMA) at Miyoko,
      Ofunato and Hachinohe.
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 23S, 35C
      Centroid Location:
      Origin Time          18:21:34.2 0.3
      Lat 39.29N 0.04 Lon 141.47E 0.04
      Dep 107.6 2.9 Half-duration  1.3
      Moment Tensor;   Scale 10**17 Nm
        Mrr=-0.89 0.05  Mtt= 0.34 0.09
        Mff= 0.55 0.08  Mrt= 0.13 0.05
        Mrf= 1.09 0.05  Mtf=-0.53 0.07
       Principal Axes:
        T  Val=  1.31  Plg=23  Azm=244
        N         0.24       21       344
        P        -1.54       58       112
      Best Double Couple:Mo=1.4*10**17
       NP1:Strike=300 Dip=29 Slip=-138
       NP2:        171      71       -68

OFUJ     0 02 203 iPd    21 47.50   2.0
YAMJ     1 58 235 P      22 01.10   1.7
                 S      22 23.80
AOMJ     1 77 326 P      22 03.40   1.6
                 S      22 27.10
NIIJ     2.81 230 iP+    22 17.60   2.0
                 S      22 52.10
KAKJ     3.12 203 P      22 19.90   0.0
                 S      22 56.20
MRRJ     3 36 352 eP     22 22.60  -0.5
                 eS     23 00.00
HOOJ     3.50  20 iP+    22 24.40  -0.7
                 eS     23 03.30
CHJJ     3.71 216 P      22 28.60   0.6
                 S      23 12.10
MAT      3.75 228 iPc    22 30.40   1.9
                 eS     23 16.00
MTMJ     3.96 232 iP+    22 33.50   2.0
KUSJ     4.61  29 P      22 37.60  -2.6
                 eS     23 26.80
SHK      8.53 241 iP     23 35.90   1.7
SSE     18.55 251 Pd     25 40.50  -2.8
       1.0s   334.00nm          5.6mb
     Z 12s      1.30um
     N 12s      0.80um
     E 10s      0.50um
                 i      25 48 00
                 sP     26 02.00
                 iS     29 22.00
                 sS     29 42.00
BJI     19.67 281 eP     25 52.50  -2.6
       1.6s   538.00nm          5.6mb
                 esP    26 23.00
                 eS     29 20.00
                 esS    29 48.00
                 eScS   37 17.50
YAK     24.09 346 iPc+   26 37.90  -0.8
       0.9s   133.00nm          5.4mb
                 ipP    27 08.00 149kmX
                 iPP    27 21.00
                 iPPP   27 36.00
                 ePcP   30 27.00
                 iS     30 46.00
                 iPS    31 04.00
                 i      31 22.00
                 esS    31 33.00
                 eSS    32 05.00
                 eSSS   33 19.00
                 eScS   37 28.00
                 e      38 19.00
BBP     25.17 228 ePd    26 50.50   1.2

GUMO    25.56 173 eP     26 51.70  -1.2
                 e      27 14.60 106km
PJG     25.56 173 eP     26 50.70  -2 2
SMY     26.10  48 e(P)   26 58.20   0.7
CVP     27.44 225 eP     27 08.00  -2.1
PIP     27.61 227 eP     27 13.20   1.6
HKC     28.82 243 eP     27 23.40   1.0
IRK     28.89 309 ePc+   27 22.00  -0.9
       2.0s       0.25nm          2.5mb X
                 e      27 41.00  82kmX
                 ePP    28 03.00
                 ePPP   28 37.20
                 eS     32 05.00
                 e      32 16.00
                 e      32 24.00
                 e      32 34.30
                 LR     38 50.00
BCP     29.15 225 eP     27 23.00  -2.7
BAG     29.17 225 eP     27 23.50  -2.4
LZH     29.99 276 Pc     27 32.00  -0.9
       1.4s   236.00nm          5.7mb
     Z 15s      1.01um           4.6MszX
     E 11s      0.59um
                 pP     27 37.50  19kmX
                 sP     27 40.00
                 eS     33 10.00
                 ScP    33 35.00
                 i      34 54.00
                 ScS    38 00.00
                 i      38 47.50
QVP     30.42 222 eP     27 37.00   0.3
ADK     31.42  52 eP     27 43.77  -1.4
       1.0s    58.13nm          5.3mb
PLP     31.54 213 ePd    27 45.50  -1.0
KMI     35.53 259 Pd+    28 20.50  -0.6
       1.5s   770.00nm          6.4mb X
     Z 16s      1.10um           4.7MszX
     N 14s      0.80um
     E 12s      0.40um
                 sP     28 43.00
                 S      33 49.00
                 sS     34 10.00
                 ScS    38 36.00
CHG     42.04 254 iPc    29 14.60  -0.3
       0.9s   130.04nm          5.8mb
NST     43.14 249 eP     29 25.00   1.1
SVW     43.75  39 eP     29 29.22   0.8
       0.8s   120.16nm          5.8mb
BRW     44.44  24 eP     29 32.79  -1.0
IMA     44.82  32 eP     29 37.28   0.2
       1.0s    33.03nm          5.1mb
                 epP    30 02.51 108km
                 ePcP   31 16.68
KHT     44.85 250 eP     29 38.30   0.6
RSO     45.17  40 ePc    29 39.77  -0.2
CP2     45.39  38 ePc    29 42.28   0.6
CRP     45.43  38 iPc    29 42.35   0.4
                 e      30 10.44 122kmX
KDC     45.49  43 iPc    29 41.27  -1.0
       1.0s    60.57nm          5.4mb
PMR     46.86  38 eP     29 52.08  -0.9
       1.0s    93.20nm          5.6mb
GUN     47.19 274 P      29 56.20  -0.4
COL     47.26  33 eP     29 57.97   1.8
FBA     47.26  33 eP     29 55.89  -0.3
       0.8s    26.14nm          5.1mb
KKN     47.71 274 P      30 00.00  -0.5
PKI     47.72 274 P      30 00.80   0.1
DMN     47.94 274 P      30 02.20  -0.1
GKN     48.11 275 P      30 03.00  -0.5
KLU     48.40  38 eP     30 04.56  -0.6
                 e      30 37.22 143kmX
BALM    50.18  38 eP     30 18.42  -0.4
IPM     50.33 238 ePc    30 20.90   0.5
       0.8s    36.50nm          5.5mb
KGM     50.82 233 ePd    30 25.50   1.5
INK     52.46  28 ePc    30 36.20   0.4
       0.7s    25.00nm          5.4mb
                 pP     31 11.50 153kmX
MTN     52.60 193 eP     30 35.00  -2.3
MBC     54.49  17 ePc    30 49.70  -1.0
       1.0s    20.00nm          5.1mb
                 pP     31 25.50 155kmX
SIT     54.70  42 e(P)   30 52.70   0.3
       1.2s   109.60nm          5.8mb
LEM     55.53 222 iPd    30 59.00   0.0
       1.0s    60.00nm          5.6mb

HYB     58.49 267 eP     31 18.50  -1.3
       1.0s    70.00nm          5.7mb
                 e      31 45.00 108km
CTA     59.03 175 eP     31 23.00  -0.3
WB2     59.13 188 iPc    31 21.80  -2.2
       0.7s    24.10nm          5.4mb
                 i      31 46.60 100km
WRA     59.13 188 P      31 22.60  -1.4
       0.8s    15.50nm          5.2mb
KEV     61.59 339 iP     31 39.50  -0.8
GBA     61.60 265 Pc     31 40.00  -1.0
YKA     61.93  31 eP     31 41.80  -0.8
       1.0s    18.00nm          5.1mb
ASPA    62.86 188 P      31 49.09   0.0
MAIO    62.89 296 eP     31 49.00  -0.5
SDF     63.19 337 iP     31 49.80  -1.1
MBL     63.33 203 eP     31 50.70  -1.6
DAG     63.75 355 eP     31 52.90  -1.5
       1.0s    38.00nm          5.3mb
STW     64.90  47 P      32 02.75   0.5
MCW     65.10  47 eP     32 03.80   0.2
DZM     65.12 155 iPc    32 04.30   0.4
OLP     65.38 177 eP     32 05.40   0.0
RMO     65.58 173 iPd    32 07.20   0.5
       1.0s    43.00nm          5.3mb
GMW     65.72  48 eP     32 08.29   0.7
JCW     65.87  47 P      32 08.59   0.0
BMW     66.03  49 eP     32 09.92   0.3
                 epP    32 36.56 106km
KMOR    66.33  50 P      32 12.12   0.6
WARB    66.44 195 eP     32 11.00  -1.3
OBN     66.57 323 iPc    32 12.00  -0.8
       0.8s    16.00nm          5.0mb
     Z 12s      0.50um           4.9MszX
                 e      32 21.00
                 ipP    32 37.00  99km
                 isP    32 43.00
                 ePP    34 46.00
                 eS     40 54.00
                 e      41 25.00
                 eScS   41 57.00
KAF     66.58 332 iP     32 11.20  -1.6
       0.5s    15.30nm          5.2mb
LON     66.71  48 eP     32 13.69  -0.3
SHW     66.77  49 eP     32 14.99   0.6
BRS     66.95 169 iPc    32 16.00   0.5
       1.0s     3.50nm          4.2mb X
ASR     67.17  49 P      32 17.08   0.2
WTV     67.26  46 P      32 17.25  -0.2
EBG     67.34  47 P      32 18.22   0.3
SSOR    67.36  50 P      32 18.78   0.6
SAW     67.57  46 P      32 18.59  -0.7
VGB     67.99  49 eP     32 22.04   0.0
WAH2    68.00  47 P      32 22.04   0.1
DPW     68.14  46 eP     32 22.31  -0.6
                 e      32 50.80 114kmX
CROR    68.16  49 P      32 23.25   0.1
NUR     68.23 332 eP     32 21.00  -2.1
                 e      32 33.00  41kmX
                 i      32 47.70
NEW     68.52  45 eP     32 24.81  -0.4
       0.9s    78.95nm          5.6mb
JBO     68.57  48 P      32 25.37  -0.2
FHC     68.65  54 eP     32 27.43   1.3
       0.8s   110.70nm          5.8mb
KMPM    68.77  55 eP     32 28.41   1.5
LNOR    69.23  47 P      32 29.90   0.3
LGPM    69.31  54 eP     32 30.79   0.5
LBFM    69.65  53 eP     32 32.68   0.2
                 e      33 01.49 115kmX
WDC     69.68  54 eP     32 32.39   0.0
       1.1s    96.61nm          5.5mb
                 e      33 02.52 121kmX
ARMA    69.78 171 eP     32 33.60   0.6
       0.9s    16.00nm          4.9mb
STK     70.62 180 eP     32 37.30  -0.6
       0.8s     4.30nm          4.3mb
FORT    70.66 192 eP     32 38.30   0.1
TAB     70.83 304 eP     32 50.00  10.4X
ORV     70.92  54 eP     32 39.01  -0.9
                 e      33 09.33 121kmX
UPP     71.20 334 iP     32 40.70  -0.5
FCC     72.07  27 eP     32 50.00   3.6X
                 pP     33 19.00 115kmX
HFS     72.30 336 eP     32 46.10  -1.7
       0.4s     6.80nm          4.8mb
     Z 17s      0.21um           4.5MszX
```

			LR	05 36.00					e	34 10.80				0.8s	43.00nm		5.4mb
NB2	72.37	337	P	32 46.80	-1.4		WIT	80.50	334 eP	33 35.50	1.8		OGA	83.74	328 iPc	33 51.50	0.6
	0.8s	21.80nm		5.0mb					e	34 01.00	97km		BDV	83.81	321 iPc	33 51.20	0.1
CMB	72.51	55	eP	32 49.21	-0.3				e	34 11.00			ULC	83.85	321 iPc	33 51.49	0.2
	1.2s	91.49nm		5.5mb			HOF	80.64	330 eP	33 35.10	0.6		HCY	83.85	321 iPc	33 50.46	-0.8
LCCM	72.84	45	eP	32 50.80	-0.6			1.0s	22.00nm		4.9mb		WLS	83.91	331 P	33 51.62	0.1
KVN	73.35	53	eP	32 54.97	0.5		SOP	80.76	326 eP	33 36.00	0.8		CDF	83.94	331 P	33 51.79	0.1
			e	33 25.68	122kmX		KHC	80.90	328 P	33 36.20	0.3		DLF	83.96	341 eP	33 52.50	1.0
BWA	73.42	174	eP	32 55.10	0.6				PcP	33 46.20				0.9s	77.00nm		5.6mb
			e	33 21.30	102km				pP	34 02.60	101km		SLE	84.01	330 P	33 52.88	0.9
MMPM	73.63	55	eP	32 56.18	-0.2				sP	34 13.30			LIBD	84.03	331 P	33 52.50	0.5
MEMM	73.65	55	eP	32 57.14	1.2				e	36 39.10			FEL	84.10	331 P	33 52.45	-0.1
PHAM	73.80	57	eP	32 57.13	0.1				eS	43 52.00			ECH	84.15	331 P	33 52.85	0.2
BONR	73.88	54	eP	32 58.18	0.4		CSS	80.96	308 eP	33 40.70	4.2X		OSS	84.24	329 P	33 53.54	0.2
CAN	74.36	174	iPd	33 00.40	0.5		GEC2	81.07	328 P	33 36.40	-0.5		ZLA	84.28	330 P	33 53.93	0.5
BCH	74.40	57	eP	33 00.79	0.2			0.8s	6.28nm		4.5mb		ETA	84.42	341 eP	33 54.30	0.4
TNP	74.48	53	ePc	33 01.41	0.3				e	33 40.90			MOF	84.46	331 P	33 54.15	-0.2
	0.8s	70.09nm		5.5mb					e	33 46.30			LLS	84.55	330 P	33 55.11	0.2
HVU	74.88	48	eP	33 03.45	0.2				pP	34 02.90	101km		VITF	84.58	332 P	33 54.71	-0.1
ISA	75.16	56	eP	33 04.09	-0.8				sP	34 13.30			BSF	84.60	331 eP	33 54.60	-0.4
	0.8s	23.77nm		5.1mb					PKKP	52 03.20				1.3s	20.20nm		4.9mb
ABL	75.16	57	eP	33 05.60	0.5				PKKP3	52 11.80			HAU	84.62	332 eP	33 54.70	-0.3
BSD	75.74	332	iPc	33 08.00	0.4		WTS	81.13	334 eP	33 37.50	0.5			0.8s	13.15nm		4.9mb
	0.8s	21.00nm		5.0mb				0.8s	15.90nm		4.9mb		BBS	84.64	331 P	33 55.43	0.3
TPNV	75.79	54	(P)	33 08.58	0.1				e	34 13.50	143kmX		VDL	84.68	329 ePd	33 55.80	0.2
	0.4s	23.79nm		5.4mb			WET	81.17	329 iPc	33 38.50	1.2		ECB	84.87	341 eP	33 56.50	0.4
DUG	75.86	50	eP	33 09.10	0.3		EKA	81.26	341 Pd	33 25.60	-12.0X		ECP	84.93	341 eP	33 56.90	0.5
	0.8s	80.91nm		5.6mb				0.9s	2.60nm					1.0s	128.00nm		5.8mb
BW06	76.07	46	ePd	33 09.62	-0.5		GRF	81.39	330 iPd	33 39.60	1.1		TMA	85.22	329 P	33 58.13	-0.2
	0.8s	37.86nm		5.3mb				1.0s	56.00nm		5.3mb		MMK	85.63	330 P	34 01.08	0.7
			e	33 45.38	144kmX		Z	20s	0.20um		4.5Msz		DIX	85.82	330 P	34 01.72	0.3
COP	76.18	333	iPd	33 10.30	0.2				ipPc	34 05.00	97km		EMS	86.02	330 P	34 02.57	0.3
	0.9s	57.14nm		5.4mb					esP	34 15.30			FIR	86.13	326 eP	34 15.00	12.5X
			i	33 36.00	99km		TNS	82.01	332 ePd	33 42.00	0.3		LOR	86.15	333 iPc	34 02.40	-0.2
			i	33 46.00					ePPd	34 08.10				0.9s	36.05nm		5.4mb
TOO	76.37	177	iPd	33 13.90	2.6		JAO	82.01	21 eP	33 40.50	-1.1		FLN	86.31	336 eP	34 03.00	-0.4
	0.5s	7.00nm		4.7mb					pP	34 17.00	145kmX			0.8s	19.05nm		5.2mb
GSC	76.45	56	eP	33 12.23	0.0		TUC	82.21	55 eP	33 43.92	0.8		LBF	86.35	333 iPc	34 03.30	-0.4
SSK	76.55	57	eP	33 13.26	0.4			1.5s	59.34nm		5.2mb			0.9s	26.85nm		5.3mb
DAU	76.63	49	ePd	33 13.30	-0.1		BHG	82.30	328 iPd	33 44.30	1.1		LDF	86.35	336 eP	34 03.30	-0.3
ARUT	77.00	52	eP	33 15.21	-0.1			1.0s	42.00nm		5.3mb			1.0s	27.60nm		5.2mb
EMUT	77.28	49	eP	33 16.96	0.1		ENN	82.46	333 eP	33 44.00	0.0		SSF	86.45	333 iPc	34 04.00	-0.1
MSU	77.31	51	eP	33 17.54	0.5			0.8s	16.10nm		5.0mb			0.9s	26.05nm		5.3mb
PLM	77.63	57	eP	33 18.70	-0.1				e	34 10.00	99km		RSL	86.45	330 P	34 04.21	-0.1
ULM	77.67	34	ePc	33 19.20	0.7				e	34 20.50			LPL	86.55	330 iPc	34 04.90	0.0
			pP	33 56.50	150kmX		FUR	82.59	329 iPc	33 45.80	1.0			0.9s	18.65nm		5.1mb
ISR	77.89	319	eP	33 20.00	0.1			0.6s	38.00nm		5.5mb		LPG	86.56	330 iPc	34 05.00	-0.1
SRU	77.90	49	eP	33 20.10	-0.1				e	34 11.70	98km			0.9s	20.95nm		5.2mb
RSSD	78.16	42	eP	33 20.72	-0.9				i	34 22.50			SMF	86.68	332 iPc	34 05.40	0.1
	0.9s	46.42nm		5.3mb			K8A	82.61	327 iPd	33 45.20	0.1			1.1s	23.70nm		5.1mb
			epP	33 47.16	102km			1.8s	87.40nm		5.3mb		AVF	86.74	333 iPc	34 05.50	0.0
KSP	78.46	328	iP	33 23.00	0.2					i	34 11.20	99km		0.9s	48.15nm		5.5mb
			e	33 48.30	97km					i	34 23.00		GRR	86.76	336 iPc	34 05.60	0.0
			i	33 59.50						i	34 41.00			1.2s	67.25nm		5.5mb
PV09	79.13	49	eP	33 27.35	0.3					i	37 06.80		LPF	87.14	336 iPc	34 07.60	0.2
PV10	79.26	49	eP	33 28.29	0.5		VAY	82.65	318 iP	33 46.00	0.9			0.9s	31.30nm		5.3mb
			epP	33 53.21	95km					i	34 11.50	97km	EEO	87.19	27 eP	34 09.50	1.8
PV08	79.36	49	eP	33 28.29	-0.1		SKO	82.75	320 iP	33 47.00	1.4				pP	34 41.50	124kmX
			epP	33 53.58	97km			1.5s	127.00nm		5.6mb		SAOF	87.50	329 P	34 09.09	-0.2
BRG	79.39	329	iP	33 28.20	0.4					i	34 12.50	97km	MAF	87.50	333 iPc	34 09.60	0.4
	1.6s	44.00nm		5.0mb						i	34 23.80			1.1s	27.85nm		5.2mb
			i	33 53.40	96km		PLE	82.75	322 iPc	33 45.99	0.2		TCF	87.57	333 eP	34 09.70	0.1
CLL	79.41	330	iP	33 27.80	-0.1		IVA	82.85	321 iPc	33 46.79	0.5			1.0s	14.00nm		4.9mb
	1.1s	40.00nm		5.2mb			PVY	83.02	321 iPc	33 47.79	0.6		TOUF	87.60	329 P	34 10.95	1.0
			ipP	33 53.70	99km		ALQ	83.11	50 ePd	33 48.42	0.5		SBF	87.65	329 iPc	34 09.00	-1.0
VRAC	79.51	327	eP	33 29 00	0.6			1.4s	89.87nm		5.5mb			0.7s	6.15nm		4.7mb
	1.3s	94.50nm		5.5mb			WATA	83.14	328 iPd	33 48.00	0.3		MEO	87.77	46 iPd	34 11.10	0.4
			epP	33 54.20	96km					i	34 13.80	98km	LSF	87.84	334 eP	34 10.90	0.1
			esP	34 05.60						i	34 24.80			0.9s	21.80nm		5.2mb
PRU	79.84	328	P	33 30.60	0.4		WTTA	83.17	328 iPd	33 48.20	0.2		MFF	88.10	335 iPc	34 12.50	0.4
	1.0s	20.90nm		4.9mb				0.9s	12.60nm		4.9mb			1.1s	44.95nm		5.4mb
			ePcP	33 41.80						i	34 14.10	98km	LRG	88.42	329 eP	34 12.90	-0.7
			pP	33 56.40	99km					i	37 10.70			0.6s	4.95nm		4.8mb
			sP	34 06.90			MOTA	83.32	329 iPd	33 48.80	0.1		LMR	88.46	329 iPc	34 12.90	-0.9
			e	43 10.00				1.0s	26.80nm		5.1mb			0.7s	5.85nm		4.8mb
SRO	79.89	325	iP	33 31.60	1.0					i	34 14.90	99km	RJF	88.67	333 eP	34 14.90	0.1
			i	33 57.70	100km		NKY	83.33	321 iPc	33 48.31	-0.4			1.0s	17.20nm		5.1mb
			i	34 08.30			SQTA	83.38	329 iPd	33 49.10	0.2		LTX	88.70	53 eP	34 13.73	-1.6
ZST	80.14	326	i(P)	33 32.70	0.8			1.4s	44.50nm		5.2mb		CAF	88.80	333 iPc	34 16.00	0.5
			i	34 08.90	145kmX					i	34 15.20	99km		0.7s	8.95nm		5.0mb
GOL	80.47	46	eP	33 34.81	0.6					i	34 26.00		GAC	89.23	25 eP	34 18.00	0.6
	1.2s	63.74nm		5.3mb			BRY	83.49	322 iPc	33 48.81	-0.8				pP	34 49.50	121kmX
			e	34 11.36	146kmX		TTG	83.49	321 iPc	33 49.26	-0.1		LFF	89.25	333 eP	34 18.00	0.4
MOX	80.48	330	eP	33 33.90	0.3		DMU	83.50	342 eP	33 50.30	1.1			0.7s	17.85nm		5.3mb
	1.5s	27.00nm		4.9mb				1 0s	58.00nm		5.5mb		LPO	89.32	333 iPc	34 18.20	0.3
			e	33 45.20	37kmX		URZ	83.58	153 eP	33 48.90	-0.7			1.0s	17.80nm		5.2mb
			e	33 59.80			OHR	83.71	319 iP	33 49.70	-0.9		FVM	89.59	39 eP	34 18.88	-0.4

05d 18h

	0.8s	34.13nm			5.5mb	
		epP	34	46.03	102km	
CBM	90.31	20 eP	34	21.79	-0.7	
	1.0s	23.72nm			5.3mb	
		epP	34	49.70	105km	
		esP	34	58.84		
RSNY	90.57	25 eP	34	23.51	-0.2	
	0.8s	16.98nm			5.3mb	
		epP	34	49.97	99km	
MIAR	90 66	43 ePc	34	24.34	0.1	
	0.8s	44.99nm			5.7mb	
ELC	90.72	38 eP	34	24.43	0.0	
OLY	91.01	41 eP	34	25.67	-0.2	
LMN	92 16	18 eP	34	34.50	3.5X	
		pP	35	11.00	142kmX	
TKL	94 59	36 eP	34	41.76	-0.6	
GOGA	96.60	37 (P)	34	51.26	-0.2	
BUL	120.10	268 iPKPd	40	11.40	-1.3	
		i	40	39.80		
BFT	121.98	261 ePKP	40	17.00	0.8	
SLR	123.36	262 iPKPc	40	17.60	-1.2	
	0.8s	46.00nm				
		i	40	45.70		
SDV	123.61	39 ePKP	40	18.90	-0.8	
KIC	125.12	318 PKP	40	21.50	-0.8	
BLF	126.66	260 ePKP	40	24.10	-1.1	
FRS	127.63	260 e(PKP)	40	24.50	-2.2	
WIN	130.38	272 e(PKP)	40	25.00	-7.5X	
ZOBO	145.43	57 PKP	41	00.10	-0.4	
	1.2s	152.03nm				
Z	24s	0.31um			5.0MszX	
		LR	02	36.00		
LPB	145.64	58 PKP	41	00.00	-0.7	
	1.0s	104.00nm				
CNCB	145.91	58 iPKPc	41	03.00	1.7	
CCH	147.54	56 PKP	41	05.60	2.0	
SIV	149.56	47 PKP	41	20.40	13.9X	
FSA	153.42	69 ePKPc	41	13.80	2.0	
MDZ	154.61	85 ePKP	41	15.00	1.7	
	S.D. = 0.9	on 260 of 268 obs.				

MAY 05, 1993 18h 27m 58.63± 0.79s
36.761 N ± 7.3km 22.082 E ± 4.2km
DEPTH = 16.2 ± 5.7 km
SOUTHERN GREECE (368)
ML 3.5 (ATH).

VLI	0.69	93 ePg	28	11.00	-0.8	
ATH	1.78	47 ePg	28	29.00	0.2	
VLS	1.85	320 ePb	28	32.00	2.1	
VAM	2.18	128 ePb	28	40.00	5.2X	
AGG	2.27	5 ePb	28	36.30	0.3	
		eSb	29	03.30		
NPS	3.23	117 ePg	28	59.50	9.8X	
LIT	3.35	5 ePn	28	51.08	-0.3	
		eSn	29	28.86		
PAIG	3.40	21 iPn	28	50.80	-1.2	
KEK	3.45	329 ePn	28	53.00	0.2	
SRN	3.52	333 ePn	28	54.70	1.0	
KZN	3.55	356 ePn	28	56.00	1.8	
OUR	3.87	22 ePn	28	56.90	-1.7	
		eSn	29	39.86		
TPE	3.88	336 ePn	28	55.00	-3.9X	
FNA	4.05	352 ePn	29	01.78	0.4	
		eSn	29	48.18		
SOH	4.17	13 ePn	29	02.18	-0.9	
		eSn	29	48.10		
GRG	4.20	3 ePn	29	03.12	-0.3	
		eSn	29	49.84		
VLO	4.22	332 ePn	29	04.80	1.1	
KNT	4.44	8 ePn	29	05.62	-1.2	
		eSn	29	54.78		
OHR	4.46	347 iPn	29	10.10	3.0X	
VAY	4.57	5 iPn	29	08.70	0.1	
LCI	4.82	319 P	29	10.80	-1.3	
CIN	4.87	78 eP	29	15.00	2.1	
TIR	4.89	340 ePn	29	24.70	11.5X	
GRI	4.93	296 P	29	14.72	0.9	
SOI	4.97	287 P	29	14.60	0.3	
		eSn	30	06.90		
GMB	5.14	288 P	29	16.88	0.0	
ROI	5.17	305 P	29	17.40	0.2	
SKO	5.23	355 ePn	29	18.00	0.1	
		i	30	18.50		
CZI	5.30	299 P	29	18.90	-0.1	
TDS	5 37	304 P	29	19.90	-0.1	
CSI	5.46	305 P	29	22.30	1.0	
BRT	5.60	319 P	29	21.90	-1.4	
MMN	5.72	305 P	29	25.50	0.6	
MEU	5.74	276 P	29	24.30	-1.0	
PZI	5.75	275 P	29	24.04	-1.3	
MNO	6.00	283 P	29	28.70	-0.3	
MGR	6.13	305 P	29	30.00	-0.7	
SGO	6.52	308 P	29	35.60	-0.5	
FAI	6.75	277 P	29	40.60	1.2	
DUI	7.68	312 P	29	52.56	0.1	
SDI	8.09	310 P	29	58.50	0.2	
AQU	8.72	312 P	30	07.50	0.5	
MNS	9.17	311 P	30	12.00	-1.2	
ASS	9.59	314 P	30	19.30	0.3	
ARV	9.70	317 P	30	19.30	-1.2	
KHC	13.83	336 eP	31	26.10	10.0X	
KER	20.49	89 eP	32	23.00	-15.5X	
	S.D. = 1.0	on 40 of 47 obs.				

? MAY 05, 1993 18h 41m 36.93± 0.94s
14.598 N ± 7.7km 60.937 W ± 8.7km
DEPTH = 10.0km (geophysicist)
WINDWARD ISLANDS (95)
ML 2.7 (FDF).

MVM	0.06	137 iPc	41	39.16	0.0	
		S	41	41.10		
BIM	0.15	238 eP	41	40.58	0.1	
		S	41	43.20		
CRM	0.16	8 iPc	41	40.61	0.1	
		S	41	43.60		
FDF	0.25	303 eP	41	42.10	-0.1	
		S	41	45.80		
	S.D. = 0.1	on 4 of 4 obs.				

MAY 05, 1993 19h 12m 23.25± 0.87s
39.654 S ± 4.2km 177.510 E ± 9.0km
DEPTH = 40.6 ± 8.8 km
4.7mb (4 obs.)
OFF E. COAST OF N. ISLAND, N.Z. (160)

TTH	0.54	282 Pc	12	34.60	0.1	
MOH	0.59	332 Pc	12	33.90	-1.4	
TEHZ	0.63	238 Pc	12	39.10	3.2X	
TAHZ	0.79	311 Pc	12	37.30	-0.8	
PAHZ	0.87	336 P	12	38.90	-0.3	
WAHZ	0.89	267 P	12	40.70	1.2	
WHH	1.10	314 P	12	42.10	-0.4	
PGZ	1.35	224 P	12	48.40	2.5	
URZ	1.43	347 P	12	47.30	0.3	
		eS	13	03.20		
DRZ	1.55	283 eP	12	50.10	1.0	
NGZ	1.55	287 P	12	49.70	0.7	
CNZ	1.59	286 P	12	50.10	0.7	
PATZ	1.60	322 P	12	49.50	-0.1	
TAZ	1.62	331 P	12	49.70	-0.1	
PUZ	1.68	21 P	12	51.50	0.8	
UTU	1.80	325 eP	12	52.30	0.0	
MNG	1.83	238 P	12	54.20	1.4	
		eS	13	16.30		
BSZ	1.99	265 P	12	57.00	1.8	
HBZ	2.14	17 eP	12	57.90	0.6	
MTW	2.15	225 P	12	58.10	0.7	
BLW	2.31	222 P	13	00.60	0.9	
WLZ	2.33	319 P	12	59.30	-0.6	
CAW	2.36	231 P	13	01.40	0.9	
MOZ	2.40	298 P	13	00.20	-0.7	
MOW	2.47	224 P	13	02.30	0.4	
MRW	2.66	233 eP	13	05.10	0.5	
		eS	13	33.40		
NRZ	2.79	275 P	13	07.40	1.0	
TCW	2.92	237 P	13	08.30	0.0	
DIW	2.98	246 P	13	09.60	0.5	
QRZ	3.99	251 P	13	22.10	-1.4	
KHZ	4.08	226 eP	13	24.00	-0.7	
		eS	14	08.90		
THZ	4.09	237 eP	13	23.70	-1.2	
WCZ	4.47	325 eP	13	29.70	-0.7	
DSZ	4.82	242 eP	13	33.80	-1.5	
LTZ	5.04	230 P	13	37.00	-1.4	
		S	14	31.50		
WVZ	6.14	234 P	13	52.00	-1.8	
ODZ	7.41	221 P	14	09.70	-1.8	
BWZ	7.48	227 P	14	10.50	-2.0	
DZM	19.90	328 iPc	16	54.10	-0.3	
TOO	25.04	265 eP	17	47.90	2.8X	
	0.6s	14.00nm			4.7mb	
		i	17	55.40		
STK	30.01	274 eP	18	31.40	1.1	
	0.6s	1 60nm			4.0mb	
ASPA	39.98	280 eP	19	55.80	0.1	
	0.7s	9.60nm			4.7mb	
		epP	20	03.70	27kmX	
WB2	41.81	285 iPc	20	10.90	0.2	
	0.3s	12.30nm			5.1mb	
MBC	122.25	15 ePKP	31	25.00	11.1X	
KAF	151.53	332 ePKP	32	14.90	7.9X	
NUR	153.16	330 iPKP	32	18.80	9.5X	
	S.D. = 1.1	on 41 of 46 obs.				

% MAY 05, 1993 19h 20m 38.64± 0.65s
44.338 N ± 5.9km 7.331 E ± 6.9km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.7 (GEN).

STV	0.09	183 P	20	41.57	0.2	
		S	20	43.31		
ENR	0.13	150 P	20	41.98	0.1	
		S	20	44.02		
PZZ	0.23	315 P	20	43.81	0.1	
		S	20	47.55		
ROB	0.39	96 P	20	46.81	0.2	
		S	20	52.01		
BHB	0.51	355 P	20	48.73	-0.2	
IMI	0.59	137 P	20	49.93	-0.7	
		S	20	57.68		
FIN	0.64	101 P	20	51.83	0.3	
	S.D. = 0.4	on 7 of 7 obs.				

? MAY 05, 1993 21h 31m 46.93± 1.98s
34.134 S ±21.2km 70.479 W ±17.3km
DEPTH = 90.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)
MD 3.4 (SAN).

CHCH	0.25	324 iP	32	00.31	0.0	
		iS	32	12.12		
PCH	0.51	357 iP	32	02.20	0.1	
		iS	32	15.04		
TACH	0.61	321 iP	32	03.14	0.3	
		iS	32	16.93		
LNV	0.79	283 iP	32	04.59	0.0	
		iS	32	19.55		
FCH	0.82	11 iP	32	05.12	-0.2	
		iS	32	20.49		
PEL	1.00	350 iP	32	06.98	0.0	
		iS	32	24.29		
LCCH	1.12	306 iP	32	08.15	-0.2	
		iS	32	26.07		
JACH	1.45	356 iP	32	12.65	0.1	
		iS	32	33.89		
	S.D. = 0.2	on 8 of 8 obs.				

• MAY 05, 1993 21h 42m 11.99± 2.46s
16.502 N ±23.9km 99.526 W ±11.8km
DEPTH = 33.0km (normal)
3.6mb (1 obs.)
NEAR COAST OF GUERRERO, MEXICO (58)

ACX	0.48	319 iP	42	22.00	-0.4	
		iS	42	30.00		
III	1.86	2 iP	42	43.50	1.2	
		iS	43	08.00		
PPM	2.69	18 iP	42	53.50	-0.9	
OXX	2.75	77 eP	42	55.00	0.1	
		(S)	43	25.00		
IIA	2.76	17 (P)	43	01.00	6.2X	
		(S)	43	33.00		
UNM	2.83	7 (P)	43	05.00	8.8X	
		(S)	43	43.00		
IISM	3.21	39 (P)	43	01.00	-0.2	
		(S)	43	50.00		
MRX	3.56	334 (P)	43	13.00	6.8X	
		(S)	43	56.00		
YKA	47.15	351 eP	50	43.00	0.2	
	0.9s	0.60nm			3.6mb	
	S.D. = 0.9	on 6 of 9 obs.				

% MAY 05, 1993 21h 47m 05.33± 0.92s
42.771 N ± 5.2km 18.564 E ± 8.7km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 1.3 (TTG).

BRY	0.13	354	iPgd	47 08.64	0.0
			iSg	47 10.84	
NKY	0.32	82	iPgc	47 12.02	0.0
			iSg	47 16.69	
HCY	0.33	189	iPgc	47 12.03	-0.1
			iSg	47 17.49	
BDV	0.52	158	iPgc	47 16.02	0 1
			iSg	47 24.17	
TTG	0.62	123	iPgc	47 17.75	0 0
			iSg	47 26.96	
PLE	0.83	47	iPgc	47 21.38	0.0
			iSg	47 33.05	

S.D. = 0.1 on 6 of 6 obs.

& MAY 05, 1993 21h 59m 17.77s
65.889 N 149.738 W
DEPTH = 31.6km
NORTHERN ALASKA (676)
<AEIC>. ML 2.6 (AEIC).

MLY	0.96	206	eP	59 34.79	-0.3
			eS	59 47.72	
MDM	1.13	145	eP	59 38.08	0.6
			eS	59 52.24	
FBA	1.28	140	eP	59 40.86	1.2
			eS	59 55.61	
GLM	1.34	132	eP	59 39.89	-0.5
			eS	59 58.27	
NEA	1.35	168	eP	59 40.30	-0.2
			S	59 58.51	
CCB	1.49	146	eP	59 42.60	0.0
			S	00 02.58	
WRH	1.58	153	eP	59 43.47	-0.5
			S	00 04.35	
IMA	1.62	278	eP	59 44.51	-0.2
HDA	1.90	140	eP	59 48.34	-0.2
FYU	1.95	68	eP	59 49.88	0.6
TRF	2.46	186	eP	59 56.16	-0.6

11 obs. associated

? MAY 05, 1993 22h 19m 20.18±13.12s
39.698 N ±101.km 28.842 E ±21.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

KCT	0.66	326	ePn	19 33.40	0.0
YLV	0.96	25	iPn	19 38.40	-0.1
BNT	0.97	313	ePn	19 38.50	0.0
EDC	0.99	311	ePn	19 39.00	0.0
CTT	1.48	348	ePn	19 47.00	0.1

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

% MAY 05, 1993 23h 03m 14.55± 2.11s
44.624 N ± 6.5km 6.679 E ±18.8km
DEPTH = 19.2 ± 9.9 km
FRANCE (538)
ML 2.2 (GEN).

RRL	0.31	14	P	03 21.27	-0.2
			S	03 25.50	
PZZ	0.32	111	P	03 21.74	0.0
			S	03 26.36	
BHB	0.47	62	P	03 23.85	-0.2
			S	03 30.39	
STV	0.60	129	P	03 25.83	-0.4
			S	03 34.97	
ENR	0.66	127	P	03 27.59	0.2
			S	03 36.89	
RSP	0.67	38	P	03 27.78	0.3
			S	03 36.89	
LSD	0.90	22	P	03 31.68	0 2
			S	03 44.14	
ROB	0.91	111	P	03 31.73	0.1
IMI	1.12	129	P	03 35.48	0.3
FIN	1.17	110	P	03 35.96	0.0
PCP	1.34	93	P	03 38.04	-0.2

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

% MAY 05, 1993 23h 08m 11.94± 2.03s
17.475 N ±13.3km 100.630 W ±18.6km
DEPTH = 33.0km (normal)
GUERRERO, MEXICO (59)

ACX	0.95	129	(P)	08 29.00	0.0
			iS	08 43.00	
III	1.42	51	iP	08 36.50	0.6
			iS	08 58.00	
MRX	2.28	347	iP	08 48.00	0.0
			iS	09 13.00	
UNM	2.30	36	(P)	09 01.00	12.4X
PPM	2.48	50	iP	08 50.00	-1.3
			iS	09 23.00	
IIA	2.51	48	(P)	08 52.00	0.7
IISM	3.44	64	(P)	09 12.00	7.5X
OXX	3.75	95	(P)	09 31.00	21.9X
			(S)	09 57.00	

S.D. = 1.2 on 5 of 8 obs.

? MAY 05, 1993 23h 40m 56.83± 4.55s
10.547 N ±27.8km 61.909 W ±39.7km
DEPTH = 33.0km (normal)
TRINIDAD (98)
MD 3.0 (TRN).

TCE	0.21	46	eP	41 02.30	-1.3
			eS	41 10.85	
TPP	0.51	117	eP	41 07.15	-0.4
			eS	41 20.31	
TRN	0.51	79	eP	41 06.93	-0.6
			eS	41 21.04	
TBH	0.83	94	eP	41 13.64	1.5
			eS	41 32.67	
GRW	1.62	9	eP	41 24.27	0.7
			eS	41 47.38	

S.D. = 1.6 on 5 of 5 obs.

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* MAY 06, 1993 00h 36m 47.38± 1.49s
34.587 S ±13.3km 70.230 W ± 7.3km
DEPTH = 10.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)
MD 4.1 (SAN).

CHCH	0.74	332	iP	37 01.46	-0.5
			iS	37 11.50	
PCH	0.99	346	iP	37 05.39	-0.9
TACH	1 10	328	iP	37 07.56	-0.5
			iS	37 23.06	
LNV	1.16	302	iP	37 09.49	0.4
			iS	37 25.72	
SAN	1.19	342	iP	37 08.97	-0.6
			iS	37 24.76	
FCH	1.26	358	iP	37 09.54	-1.4
RFA	1.47	98	iP	37 13.20	-0.7
PEL	1.49	345	iP	37 14.22	0.0
			iS	37 34.24	
LCCH	1.57	315	iP	37 15.76	0.4
			iS	37 37.47	
ROCH	1.74	338	iP	37 18.35	0.4
			iS	37 41.61	
JACH	1.92	351	iP	37 21.23	0.6
			iS	37 46.10	
MDZ	2.05	34	eP	37 24.60	2.2
			i	37 35.80	
			i(S)	37 52.00	
RTBS	2.99	13	ePc	37 41.50	5.8X
TCA	5.74	57	iPc	38 13.50	-1.3
			(S)	39 13.50	
CYA	7.20	33	ePc	38 34.60	-0.7
			(S)	40 26.70	
FSA	9.22	24	e(P)	39 05.00	1.6
CNCB	17.82	7	P	41 02.00	4.4X
LPB	18.08	7	P	40 49.00	-11.8X
ZOBO	18.34	6	P	41 05.00	0.9
SIV	20.26	26	P	41 40.40	14.5X

S.D. = 1.1 on 16 of 20 obs.

? MAY 06, 1993 01h 21m 32.63± 1.67s
14.935 N ±28.3km 40.428 E ±16.7km
DEPTH = 10.0km (geophysicist)
4.4mb (6 obs.) 4.4Msz (1 obs.)
ETHIOPIA (558)

DHJN	4.00	47	eP	22 40.67	5.1X
MAIO	27.25	35	eP	27 18.00	-1.0
ZST	38.35	335	eP	28 56.70	1.3
OBN	40.19	357	eP	29 12 00	1.4
	1.4s		24.00nm	4.7mb	
GEC2	40.30	333	P	29 11.70	-0.1
	1.3s		6.01nm	4.1mb	
			e	34 05.10	
BRG	41.73	335	e(P)	29 33.60	10.3X
GRF	42.04	332	eP	29 22.50	-3.4X
CLL	42.45	335	eP	29 29.00	-0.2
GKN	42.92	65	P	29 34.20	0.6
DMN	43.28	66	P	29 37.60	1.0
KKN	43.46	65	P	29 38.60	0.6
PKI	43.54	66	P	29 39.20	0.3
GUN	44.00	65	P	29 39.60	-3.0X
HFS	49.17	343	eP	30 21.60	-0.9
	0.6s		1.20nm	4.1mb	
NB2	50.63	342	P	30 32.90	-0.8
	1.1s		7.60nm	4.6mb	
LZH	59.96	57	eP	31 40.00	-1.9
	1.2s		15.00nm	5.0mb	
Z	18s		0.25um	4.4Msz	
WRA	98.56	108	P	35 13.20	-0.2
	0.8s		0.30nm	4.0mb	

S.D. = 1.1 on 13 of 17 obs.

& MAY 06, 1993 01h 23m 25.94s
46.300 N 75.500 W
DEPTH = 18.0km (geophysicist)
SOUTHERN QUEBEC, CANADA (447)
<OTT-P>. mbLg 3.5 (OTT). Felt at Bouchette and Maniwaki.

GAC	0.60	179	iPd	23 37.60	0.1
RSNY	1.88	158	eP	23 57.55	0.0
			S	24 22.43	
EEO	2.49	279	eP	24 09.00	2.7
WLVO	3.14	222	P	24 18.83	3.4
STCO	4.05	222	P	24 26.61	-1.7
ACTO	4.21	232	P	24 39.46	8.7
TYNO	4.47	226	P	24 42.67	8.3
CBM	5.12	80	(P)	24 42.94	-0.7
			eS	25 31.71	

8 obs. associated

MAY 06, 1993 01h 25m 59.35± 1.19s
37.988 N ± 8.1km 142.185 E ±11.6km
DEPTH = 44.9 ± 8.7 km
4.1mb (8 obs.)
OFF EAST COAST OF HONSHU, JAPAN (229)

OFUJ	1.16	340	P	26 19.10	-0.3
			S	26 34.80	
YAMJ	1.71	277	P	26 27.50	0.4
			S	26 50.50	
KAKJ	2.40	223	P	26 34.60	-2.4
			S	27 03.20	
NIIJ	2.64	255	P	26 41.80	1.4
			eS	27 13.20	
AOMJ	2.93	332	eP	26 44.50	0.0
CHJJ	3.20	234	P	26 47.30	-1.2
			eS	27 24.60	
MAT	3.49	247	eP	26 53.00	0.5
			eS	27 41.00	
MTMJ	3.76	249	P	26 57.70	1.2
IIDJ	4.25	235	P	27 04.00	0.7
HOOJ	4.47	11	eP	27 04.80	-1.5
			eS	27 55.80	
MRRJ	4.51	349	eP	27 07.90	1.0
			eS	28 03.20	
KUSJ	5.45	20	eP	27 16.00	-4.2X
			eS	28 16.80	
TSRJ	5.55	246	P	27 23.00	1.4
ASAJ	6.13	3	eP	27 28.30	-1.4
WKYJ	6.53	237	P	27 36.10	0.8
YONJ	7.55	251	P	27 50.50	0.9
TKSJ	7.71	241	P	27 51.70	-0.1
SSE	18.60	255	eP	30 13.50	-1.6
	1.0s		11.00nm	4.0mb	
BJI	20.29	284	eP	30 31.00	-2.9
	1.0s		20.00nm	4.4mb	
KMI	35.72	261	eP	32 55.00	-0.9
GUN	47.68	275	P	34 33.00	-0.8
PKI	48.20	275	P	34 36.80	-1.0
KKN	48.20	275	P	34 38.00	0.3
	0.8s		51.00nm	5.6mb X	
DMN	48.42	275	P	34 40.00	0.6
GKN	48.61	276	P	34 41.20	0.4
	0.6s		19.00nm	5.3mb X	
INK	53.26	27	eP	35 16.00	0.8
MBC	55.44	17	eP	35 31.00	-0.1
WRA	58.09	189	P	35 48.80	-1.7
	0.7s		1.80nm	4.3mb	
ASPA	61.82	189	eP	36 23.70	7.7X
	0.5s		3.70nm	4.8mb	
GBA	61.90	265	P	36 17.00	0.2
YKA	62.68	31	eP	36 23.70	2.4

06d 01h

```
        0.7s      0.70nm          3.9mb
HFS     73 47 336 eP     37 28.80    0.2
        0.3s      1.10nm          4.2mb
NB2     73.54 337 P      37 29.20    0.2
        0 5s      0.70nm          3.9mb
CLL     80.57 330 e(P)   38 28.00   19.8X
GEC2    82.22 329 P      38 17.90    0.9
        0.4s      0.36nm          3.7mb
                  e      38 22.00
                  e      38 27.60
ZOBO   145.67  59 PKP    45 35.00   -0.5
LPB    145.87  60 PKP    45 45.00    9.3X
CNCB   146.15  60 PKP    45 38.00    1.7
     S.D. = 1.3  on  34 of  38 obs.
-------------------------------------
*  MAY  06, 1993  01h 33m 08.63± 0.86s
   32.371 S ±12.4km   70.400 W ±15.7km
   DEPTH = 100.0km  (geophysicist)
 CHILE-ARGENTINA BORDER REGION    (127)
      MD 3.9 (SAN).

JACH    0.35 208 iP     33 23.67   -0.1
                iS     33 36.06
ROCH    0.79 221 iP     33 27.57    0.2
                iS     33 42.47
PEL     0.81 197 iP     33 28.31    0.9
                iS     33 41.41
FCH     0.96 175 iP     33 29.01   -0.2
                iS     33 45.10
RTBS    1.07  49 ePc    33 30.00   -0.1
PCH     1.25 184 iP     33 32.24   -0.1
                iS     33 50.70
TACH    1.36 199 iP     33 33.09   -0.4
                iS     33 52.43
LCCH    1.48 221 iP     33 35.19    0.2
CHCH    1.57 188 iP     33 36.72    0.5
                iS     33 57.73
LNV     1.79 208 iP     33 38.09   -0.9
     S.D. = 0.6  on  10 of  10 obs.
-------------------------------------
%  MAY  06, 1993  02h 04m 39.79± 0.43s
   39.529 N ± 4.0km   28.845 E ± 4.2km
   DEPTH =   5.0km  (geophysicist)
 TURKEY                           (366)
      ML 3.1 (ISK).

KCT     0.81 333 iPg    04 55.50   -0.5
                eSg    05 07.00
ALT     1.09 115 ePn    05 00.00   -0.8
BNT     1.09 320 iPn    05 01.00    0.3
EDC     1.11 318 iPn    05 01.00   -0.1
YLV     1.11  21 iPn    05 00.80   -0.4
KHL     1.32 156 ePn    05 05.00    0.4
GPA     1 36  56 ePn    05 06.20    0.8
HRT     1.44  26 ePn    05 07.00    0.4
EYL     1.44  44 ePn    05 06.50   -0.2
ISK     1 54   6 ePn    05 08.00    0.0
IZM     1 67 228 ePn    05 10.00    0.1
EZN     1.97 279 ePn    05 14.00   -0.1
DMK     2.43 340 ePn    05 21.00    0.1
     S.D. = 0.5  on  13 of  13 obs.
-------------------------------------
?  MAY  06, 1993  03h 20m 36.00± 3.21s
    2.179 N ±35.8km  127.102 E ±32.1km
   DEPTH =  33.0km  (normal)
   4.8mb (  2 obs.)
 NORTHERN MOLUCCA SEA             (266)

MTN    15.45 165 eP     24 13.00   -0.3
KNA    17.89 175 eP     24 45.00    0.9
WB2    23.11 162 iPd    25 40.10   -0.1
       0.4s     83.50nm          5.6mb X
                eS     29 49.00
MBL    24.26 197 eP     25 52.00    0.7
ASPA   26.53 166 iPc    26 11.50   -1.2
       0.3s     15.50nm          5.1mb X
FORT   32.79 178 eP     27 07.00   -1.4
       0.5s     12.00nm          5.0mb
ARMA   39.98 146 eP     28 09.30   -0.2
       0.9s      8.00nm          4.5mb
BWA    41.56 153 iPd    28 23.60    1.3
CAN    42.57 153 iPd    28 30.90    0.3
     S.D. = 1.0  on   9 of   9 obs.
-------------------------------------
   MAY  06, 1993  03h 44m 58.41± 0.27s
   44.321 N ± 2.3km    7.325 E ± 3.3km
   DEPTH =  17.8 ±  5.0 km

 NORTHERN ITALY                   (545)
      ML 2.1 (GEN), 2.0 (LDG).

STV     0.08 180 P      45 02.08    0.0
                S      45 04.23
ENR     0.12 144 P      45 02.40    0.0
                S      45 04.69
PZZ     0.24 319 P      45 04.42    0.2
                S      45 08.31
TOUF    0.31 190 Pg     45 05.06   -0.3
                Sg     45 09.43
AUTN    0.33 167 Pg     45 05.41   -0.3
                Sg     45 09.43
SAOF    0.37 154 Pg     45 06.06   -0.2
                Sg     45 10.74
ROB     0.39  94 P      45 06.93    0.3
                S      45 12.52
AURF    0.43 180 Pg     45 07.03   -0.3
                Sg     45 12.51
SBF     0.47 170 Pg     45 07.51   -0.3
                Sg     45 13.73
BHB     0.52 355 P      45 07.85   -0.9
                S      45 14.44
IMI     0.58 135 P      45 09.63   -0.1
                S      45 17.18
FIN     0.64 100 P      45 11.14    0.3
                S      45 19.29
RRL     0.71 327 P      45 12.38    0.2
                S      45 22.04
RSP     0.83 357 P      45 14.14    0.0
PCP     0.90  75 P      45 15.77    0.5
                S      45 26.93
FRF     0.90 213 Pg     45 15.90    0.6
                Sg     45 26.80
LRG     1.11 219 Pg     45 19.40    0.6
LMR     1.15 211 Pg     45 19.30   -0.2
LPG     1.24 341 Pg     45 21.10   -0.1
LPL     1.27 341 Pg     45 21.40    0.0
     S.D. = 0.4  on  20 of  20 obs.
-------------------------------------
%  MAY  06, 1993  03h 50m 23.76± 0.61s
   40.789 S ± 4.7km  174.496 E ± 5.4km
   DEPTH =  82.2 ± 10.4 km
 COOK STRAIT, NEW ZEALAND         (163)

KIW     0.32 104 Pc     50 35.70   -0.9
DIW     0.44 268 Pc     50 35.70   -1.7
TCW     0.46 201 P      50 37.30   -0.2
MRW     0.47 160 Pc     50 37.80    0.2
WEL     0.54 158 P      50 38.40    0.2
                S      50 48.30
CAW     0.54 127 Pc     50 38.50    0.3
MNG     0.77  78 Pd     50 40.70    0.1
                S      50 52.40
MTW     0.85 116 P      50 41.60    0.2
MOW     0.85 138 P      50 41.90    0.4
BLW     0.94 128 P      50 43.00    0.5
BSZ     1.04  19 P      50 44.00    0.3
PGZ     1.36  83 eP     50 47.50   -0.2
QRZ     1.49 268 P      50 49.70    0.2
NRZ     1.51 343 P      50 49.90    0.2
THZ     1.55 230 P      50 51.30    1.1
KHZ     1.78 203 P      50 54.30    1.1
CNZ     1.78  27 P      50 54.30    0.9
WAHZ    1.79  53 eP     50 52.80   -0.7
NGZ     1.82  28 P      50 54.90    0.9
MOZ     2.29   6 P      51 00.70    0.5
                S      51 27.20
LTZ     2.60 219 P      51 04.80    0.3
                S      51 33.30
WLZ     3.04  17 eP     51 10.80    0.3
URZ     3.23  40 eP     51 11.30   -1.9
WVZ     3.62 230 eP     51 18.90    0.3
ODZ     5.11 212 eP     51 37.00   -2.3
     S.D. = 0.9  on  25 of  25 obs.
-------------------------------------
   MAY  06, 1993  04h 55m 42.00± 0.67s
   35.581 N ± 6.4km  112.142 W ± 9.9km
   DEPTH =  10.0km  (geophysicist)
 WESTERN ARIZONA                  ( 42)
      ML 2.9 (GS).

ARUT    2.44 335 (P)    56 23.19    0.6
                eS     56 53.41
MSU     2.93 360 ePn    56 30.19    0.5
                ePg    56 31.44
                eS     57 05.84

GLA     3.36 222 (Pn)   56 34.98   -0.7
                ePg    56 45.33
TUC     3.45 161 ePn    56 37.58    0.6
PV10    3.74  41 eP     56 40.54   -0.7
SRU     3.75  20 ePn    56 40.48   -0.9
PV09    3.78  39 ePn    56 42.15    0.3
PV08    4.09  42 ePn    56 46.45    0.2
EMUT    4.35  14 (Pn)   56 55.22    5.3X
DUG     4.64 354 ePn    56 50.79   -3.1X
DAU     4.87   8 (P)    56 59.72    2.3X
     S.D. = 0.7  on   8 of  11 obs.
-------------------------------------
&  MAY  06, 1993  05h 13m 56.03s
   34.267 N          116.406 W
   DEPTH =   2.3km
 SOUTHERN CALIFORNIA              ( 43)
      <PAS-P>. ML 2.6 (PAS). Felt.

PEC     0.73 239 iPc    14 09.79   -0.8
                eS     14 18.28
PLM     0.99 203 ePd    14 14.54   -1.1
                eS     14 26.74
SSK     1.07 267 ePc    14 15.92   -1.1
                eS     14 30.61
GSC     1.08 342 eP     14 16.30   -0.9
                eS     14 33.22
GLA     1.79 132 ePn    14 25.94   -2:2
                ePg    14 29.65
     5 obs. associated
-------------------------------------
   MAY  06, 1993  05h 31m 55.61± 0.54s
   49.168 N ± 4.0km    6.917 E ± 6.7km
   DEPTH =  10.0km  (geophysicist)
 GERMANY                          (543)
      ML 2.5 (STR).

RUP     0.54  10 ePg    32 05.65   -0.9
LANF    0.61 107 Pg     32 08.07    0.1
                Sg     32 16.56
WLF     0.70 315 iPc    32 08.89   -0.6
                iS     32 17.94
CDF     0.79 162 Pg     32 10.20   -0.9
                Sg     32 21.74
WLS     0.81 159 Pg     32 11.24   -0.1
                Sg     32 23.13
ABH     0.82  30 ePg    32 10.71   -0.9
ECH     0.97 170 Pg     32 14.24    0.2
                Sg     32 28.04
VITF    1.13 213 Pg     32 16.20   -0.7
                Sg     32 31.96
MOF     1.33 174 Pg     32 20.49    0.3
                Sg     32 38.93
TNS     1.45  43 ePgc   32 23.30    1.4
                eSn    32 41.30
                eSg    32 48.30
FEL     1.48 150 Pg     32 23.65    1.2
ENN     1.72 339 ePg    32 27.50    1.7
       0.5s     23.30nm
                eSg    32 49.00
GEC2    4.48  92 Pn     33 04.20   -0.9
                Sn     33 54.20
                Sg     34 20.00
     S.D. = 1.0  on  13 of  13 obs.
-------------------------------------
   MAY  06, 1993  05h 42m 03.06± 0.17s
    0.895 N ± 3.3km  123.171 E ± 4.6km
   DEPTH =  36.7km  ( 11 depth phases)
   5.2mb ( 42 obs.)  4.9Msz ( 10 obs.)
 MINAHASSA PENINSULA, SULAWESI    (265)
      Mw 5.4 (HRV).
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 36S, 60C
      Centroid Location:
      Origin Time        05:42: 9.6 0.5
      Lat  1.35N 0.04 Lon 123.18E 0.04
      Dep  31.9 2.3 Half-duration  1.1
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 1.23 0.06  Mtt=-1.46 0.06
        Mff= 0.23 0.09  Mrt=-0.55 0.14
        Mrf= 0.48 0.11  Mtf= 0.10 0.05
       Principal Axes:
        T  Val=  1.50  Plg=68  Azm=244
        N        0.09       18       100
        P       -1.59       12         6
      Best Double Couple:Mo=1.5*10**17
       NP1:Strike= 74 Dip=37 Slip=  59
```

NP2: 292 59 111

| | | |

06d 06h

```
SIV   164.43 165 PKP    02 19.60  14.8X
     S.D. = 1.1   on 114 of 141 obs.
-------------------------------------
   MAY  06, 1993  06h 05m 56.86± 0.41s
   44.329 N ± 3.0km     7.336 E ± 4.1km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                  (545)
      ML 2.0 (GEN).

STV      0.08 185 P      06 00.52   1.0
                  S      06 02.63
ENR      0.12 149 P      06 00.84   0.9
                  S      06 03.22
PZZ      0.24 316 P      06 02.86   0.7
                  S      06 06.65
TOUF     0 32 191 Pg     06 03.47  -0.1
                  Sg     06 07.91
AUTN     0.34 169 Pg     06 03.86  -0.1
                  Sg     06 07.87
SAOF     0.38 155 Pg     06 04.39  -0.2
                  Sg     06 09.34
ROB      0.39  95 P      06 05.33   0.5
                  S      06 10.82
AURF     0.44 181 Pg     06 05.46  -0.4
                  Sg     06 11.29
SBF      0.47 171 Pg     06 06.35  -0.1
                  Sg     06 12.20
BHB      0.52 354 P      06 06.38  -0.9
                  S      06 12.85
IMI      0.58 136 P      06 08.12  -0.5
                  S      06 15.71
FIN      0 64 100 P      06 09.31  -0.4
                  S      06 17.68
CALN     0.66 209 Pg     06 09.54  -0.6
RRL      0.71 327 P      06 11.09   0.1
                  S      06 20.14
PCP      0.89  76 P      06 14.16   0.1
                  S      06 25.48
     S.D. = 0.6   on  15 of  15 obs.
-------------------------------------
   MAY  06, 1993  07h 00m 58.31± 0.34s
   39.184 N ± 3.3km    27.957 E ± 2.9km
   DEPTH =  13.7 ±  2.3 km
 TURKEY                          (366)
      ML 3 5 (ISK).

IZM      0 95 215 iPg    01 15.50  -0.7
                  iSg    01 28.00
KCT      1.11  16 iPg    01 19.60   0.9
EDC      1.16 356 iPn    01 20.00   0.3
BNT      1 17 359 iPn    01 20.30   0.5
EZN      1.42 297 iPn    01 24.30   0.7
KHL      1 50 125 ePn    01 25.00   0.2
CIN      1.58 176 ePn    01 27.00   1.0
                  iSg    01 48.00
YLV      1.76  38 iPn    01 28.30  -0.3
CTT      1.99  10 iPn    01 31.80  -0.2
ISK      2.06  24 ePn    01 31.90  -1.0
HRT      2.10  38 iPn    01 32.80  -0.7
GPA      2.12  58 ePn    01 34.10   0.2
EYL      2.18  50 ePn    01 35.00   0.2
ALN      2.25 320 ePn    01 36.28   0.6
                  eSn    02 08.52
DMK      2.64 357 iPn    01 41.30   0.1
OUR      3.27 292 iPn    01 50.22   0.1
                  eSn    02 33.44
PAIG     3.39 284 ePn    01 51.12  -0.7
                  iSn    02 34.80
RZN      3.52 316 iPd    01 54.00   0.2
PLD      3.83 321 iP     01 58.00   0.0
SRS      3.86 301 ePn    01 58.36  -0.2
                  eSn    02 39.12
SOH      3.90 296 ePn    01 58.96  -0.1
                  eSn    02 48.60
KNT      4.35 299 ePn    02 05.72   0.2
PVL      4.49 335 iP     02 07.00  -0.4
GRG      4.62 294 iPn    02 09.56   0.3
VTS      4.95 315 eP     02 14.00  -0.2
     S.D. = 0.5   on  25 of  25 obs.
-------------------------------------
*  MAY  06, 1993  07h 26m 22.78± 0.84s
   18.396 S ± 9.7km  177.823 W ±14.5km
   DEPTH = 588.4 ± 10.3 km
   4.7mb ( 11 obs.)
 FIJI ISLANDS REGION             (181)

WCZ     18.80 200 P      30 11.20   4.0X
       0.7s     44.00nm          5.1mb
URZ     20.28 192 P      30 20.00  -0.8
NOZ     20.47 189 P      30 25.10   2.5
ORZ     23 84 198 P      30 53.60   0.6
THZ     24.60 197 eP     30 59.30  -0.5
DSZ     24.90 199 P      31 01.30  -1.1
KHZ     25.05 195 eP     31 02.40  -1.2
LTZ     25.72 197 eP     31 08.50  -1.1
WVZ     26.44 199 eP     31 15.60  -0.2
CNB     33.58 233 iPc    32 18.30   1.5
       0.4s     13.00nm          4.9mb
CTA     33.92 261 iPd    32 20.00   0.3
       0.5s      8.80nm          4.6mb
TOO     37.30 232 iPd    32 49.00   1.6
       0.5s     17.00nm          4.9mb
WB2     45.08 260 eP     33 48.20  -1.1
       0.4s     19.10nm          5.0mb
WRA     45.09 260 P      33 48.50  -0.9
       0.6s      4.20nm          4.1mb
ASPA    45.20 255 iPd    33 49.90  -0.3
       0.4s     21.30nm          5.0mb
                  iS     39 44.90
                  iScS   42 41.60
MAT     68.63 323 eP     36 26.00  -3.7X
       0.8s     11.94nm          4.5mb
FBA     86.16  12 eP     38 02.10  -0.8
       0.7s      6.30nm          4.5mb
LCCM    87.35  40 eP     38 10.10   0.9
INK     92.21  15 ePc    38 31.40   0.5
       1.0s      4.00nm          4.4mb
YKA     94.54  25 eP     38 40.60  -1.0
       0.6s      1.50nm          4.4mb
MBC    100.70  12 ePdiff 39 09.00  -0.1
NB2    136.92 354 PKP    44 41.20   0.7
       0.7s      1.00nm
DMU    143.88   9 ePKP   44 51.40  -1.5
DLF    144.52   9 ePKP   44 53.70  -0.3
ETA    145.15   9 ePKP   44 55.00  -0.1
OJC    145.26 340 ePKPc  44 56.00   0.6
                  i      44 58.40
ECB    145.38  10 ePKP   44 56.00   0.5
ECP    145.62   9 ePKP   44 54.00  -1.8
KSP    145.73 344 iPKPd  44 57.70   1.6
CLL    146.06 348 iPKP   44 57.80   1.2
       0.8s     32.00nm
BRG    146.27 347 iPKPd  44 59.00   2.0X
       0.6s     12.00nm
MOX    146.95 349 ePKP   45 01.30   3.2X
       1.3s      7.00nm
GRF    147.94 349 ePKPd  45 04.00   4.3X
                  e      45 08.40
GEC2   148.22 345 e(PKP) 45 04.30   4.0X
       0.7s      6.40nm
FLN    149.63   3 ePKP   45 07.20   4.9X
       0.8s     18.95nm
CDF    149.77 353 ePKP   45 07.90   5.2X
       0.8s      9.25nm
LDF    149.82   3 ePKP   45 07.50   4.9X
KBA    149.96 345 iPKPc  45 08.20   5.1X
       0.8s      7.40nm
                  i      45 17.60
GRR    149.98   4 ePKP   45 08.20   5.4X
       0.6s      7.05nm
WTTA   150.18 347 iPKPd  45 09.00   5.6X
       0.6s     13.30nm
                  i      45 17.50
HAU    150.27 354 ePKP   45 08.90   5.6X
       0.7s      7.60nm
LPF    150.33   4 ePKP   45 09.00   5.7X
       1.2s     43.75nm
BSF    150.40 354 ePKP   45 09.10   5.5X
LOR    151.17 358 ePKP   45 11.10   6.4X
       0.8s      6.70nm
SSF    151.39 358 ePKP   45 11.70   6.7X
       0.7s      6 05nm
LBF    151.45 357 ePKP   45 11 60   6.5X
       0.6s      2.80nm
MFF    151.81   3 ePKP   45 12.30   6.7X
       0.6s      5.95nm
TCF    152.19 360 ePKP   45 13.20   7.0X
       0.8s      3.35nm
     S.D. = 1.2   on  28 of  48 obs.
-------------------------------------
   MAY  06, 1993  07h 26m 31.14± 0.69s
   63.563 N ± 6.7km  151.132 W ± 9.1km
   DEPTH = 100.0km  (geophysicist)
 CENTRAL ALASKA                  (  1)

FBA      1.98  46 eP     27 04.80   0.8
                  eS     27 29.22
PWA      2.00 163 eP     27 03.60  -0.6
PMR      2.18 154 eP     27 05.38  -1.2
TTA      2.30 256 eP     27 09.02   0.8
                  eS     27 40.59
CRP      2.35 192 eP     27 08.06  -1.0
                  eS     27 41.20
CP2      2.36 193 eP     27 09.55   0.3
PMS      2.44 162 eP     27 10.70   0.6
IMA      2.74 338 eP     27 13.32  -0.9
SLKM     3.10 172 (P)    27 20.31   1.3
KLU      3.19 128 eP     27 20.26   0.0
                  eS     28 00.71
SVW      3.23 222 (P)    27 26.31   5.4X
     S.D. = 1.0   on  10 of  11 obs.
-------------------------------------
%  MAY  06, 1993  07h 32m 00.30± 0.65s
   44.235 N ± 6.9km     7.410 E ± 5.4km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                  (545)
      ML 2.0 (GEN).

ENR      0.01 137 P      32 01.74  -0.5
                  S      32 02.89
STV      0.06 279 P      32 02.57  -0.1
                  S      32 04.40
ROB      0.34  80 P      32 07.65   0.4
                  S      32 12.64
PZZ      0.35 321 P      32 08.06   0.5
                  S      32 13.37
IMI      0.47 133 P      32 10.21   0.3
                  S      32 17.58
FIN      0.57  92 P      32 11.35  -0.6
BHB      0.62 350 P      32 12.13  -0.6
                  S      32 20.00
PCP      0.87  69 P      32 17.26   0.2
                  S      32 28.56
     S.D. = 0.5   on   8 of   8 obs.
-------------------------------------
?  MAY  06, 1993  07h 52m 58.32± 1.05s
   39.120 N ± 8.1km    27.532 E ±12.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.7 (ISK).

IZM      0.75 196 iPg    53 13.00  -0.1
                  iSg    53 25.50
EZN      1.17 307 iPn    53 20.30   0.1
BNT      1.27  13 ePn    53 21.30  -0.6
KCT      1.29  29 ePn    53 22.80   0.5
     S.D. = 0.8   on   4 of   4 obs.
-------------------------------------
   MAY  06, 1993  07h 58m 47.96± 0.12s
   46.711 N ± 3.0km  153.513 E ± 2.2km
   DEPTH =  37.4km  (  7 depth phases)
   5.7mb ( 97 obs.)  5.3Msz ( 33 obs.)
 KURIL ISLANDS                   (221)
      Mw 5.7 (HRV).
      CENTROID, MOMENT TENSOR    (HRV)
      Data Used: GDSN
      L.P.B.: 39S, 82C
      Centroid Location:
      Origin Time        07:58:51.6 0.2
      Lat 46.64N 0.02 Lon 153.82E 0.02
      Dep  46.6 1.3 Half-duration  1.7
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 3.17 0.05  Mtt=-0.31 0.08
        Mff=-2.86 0.07  Mrt= 1.22 0.10
        Mrf= 1.42 0.10  Mtf=-1.18 0.09
       Principal Axes:
        T  Val=  3.72  Plg=73  Azm=326
        N        0.06       9       206
        P       -3.77      14       114
      Best Double Couple:Mo=3.7*10**17
       NP1:Strike=192 Dip=31 Slip=  73
       NP2:        31      60      100

KUSJ     7.22 243 eP     00 31.40  -2.3
                  eS     01 46.00
ASAJ     8.08 255 P      00 47.90   2.2
HOOJ     8.49 243 eP     00 50.80  -0.5
                  eS     02 19.60
SAP      9.39 252 eP     01 06.00   2.3
MRRJ     9.86 249 eP     01 08.20  -2.0
                  eS     02 54.80
AOMJ    11.33 242 eP     01 27.30  -3.0X
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06d 08h

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                 i      21 26.50
PNJ    82.99   34 iP     11 10.33    0.0
SSF    82.99  340 eP     11 10.30    0.1
       1.2s     74.70nm          5.6mb
GBTN   82.99   44 ePc    11 10.26   -0.2
HYF    83.00  340 eP     11 10.70    0.4
FNA    83.02  325 i(P)c  11 09.00   -1.6
EMS    83.05  337 ePd    11 11.60    0.8
MMR    83.06  312 iPc    11 12.00    1.0
LPF    83.06  343 eP     11 10.70    0.1
       1.2s    191.00nm          6.1mb
PPCY   83.09  315 eP     11 11.00    0.1
TIR    83.11  327 eP     11 10.20   -0.8
LIT    83.16  324 i(P)c  11 10.20   -1.1
YER    83.17  319 iP     11 13.00    1.6
AVF    83.28  340 eP     11 11.80    0.1
       1.1s    182.15nm          6.1mb
SMF    83.30  339 eP     11 12.00    0.1
       1.4s    569.85nm          6.5mb
RSM    83.40  333 P      11 14.70    2.3
MYNC   83.51   44 P      11 20.00    6.8X
     Z 21s      0.37um          4.7Msz
BOB    83.55  335 P      11 13.70    0.4
LSD    83.56  337 P      11 14.49    1.0
SFI    83.60  333 P      11 14.80    1.5
LPL    83.62  337 eP     11 14.50    0.7
       1.5s    212.05nm          6.0mb
BGF    83.62  340 eP     11 13.60    0.1
       0.9s     49.15nm          5.6mb
LPG    83.63  337 eP     11 14.60    0.7
       1.4s    225.65nm          6.1mb
ARV    83.63  332 P      11 13.70    0.1
PGD    83.68  333 P      11 15.20    1.2
MDSJ   83.69  310 P      11 15.78    1.5
SALJ   83.69  311 P      11 16.43    2.2
RSP    83.81  337 P      11 14.17   -0.5
KFNJ   83.81  311 P      11 16.98    2.3
CRE    83.83  333 P      11 15.60    0.9
BDI    83.85  334 P      11 15.20    0.4
MASJ   83.90  311 P      11 17.22    2.0
FIR    83.91  334 eP     11 16.50    1.6
                 iS     21 32.00
TPE    83.97  326 eP     11 18.00    2.7
C8N    83.98   38 eP     11 16.00    0.6
MAF    84.00  340 eP     11 16.00    0.6
       1.3s    280.15nm          6.2mb
VLO    84.01  327 eP     11 12.50   -3.0X
PCP    84.01  336 P      11 16.00    0.4
TCF    84.02  340 eP     11 15.70    0.1
       1.3s    137.55nm          5.9mb
BNI    84.06  337 P      11 16.70    0.8
MKRJ   84.08  311 P      11 18.25    2.1
BHB    84.10  337 P      11 15.55   -0.4
ASS    84.11  332 P      11 17.10    1.0
AGG    84.14  324 i(P)c  11 13.32   -3.0X
RRL    84.15  337 P      11 17.06    0.5
CKI    84.20  336 P      11 16.70    0.3
DSI    84.20  311 iPc    11 17.20    0.5
LSF    84.21  341 eP     11 16.60    0.1
       1.4s    235.25nm          6.1mb
TOO    84.21  186 iPd    11 18.30    2.0
       0.8s     12.00nm          5.1mb
MFF    84.24  342 eP     11 16.60    0.0
       0.8s     41.10nm          5.6mb
SRN    84.33  326 eP     11 16.30   -0.8
COLF   84.39  339 P      11 18.02    0.6
SSB    84.40  339 P      11 17.39   -0.1
DOI    84.41  336 P      11 15.90   -1.7
FIN    84.42  336 P      11 17.29   -0.3
ROB    84.43  336 P      11 16.97   -0.7
PZZ    84.45  337 P      11 16.55   -1.3
IGT    84.50  325 i(P)c  11 16.52   -1.5
AQU    84.51  331 P      11 19.60    1.5
ENR    84.62  336 P      11 16.64   -2.0
STV    84 63  336 P      11 17.47   -1.3
MNS    84.72  332 P      11 18.60   -0.5
DUI    84.78  330 P      11 16.70   -2.8
IMI    84.78  336 P      11 19.12   -0.3
SAOF   84.80  336 P      11 19.29   -0.2
AUTN   84.83  336 P      11 19.75   -0.2
TOUF   84.86  336 P      11 20.07    0.0
SBF    84.95  336 P      11 20.18   -0.1
SDI    84.95  331 P      11 19.60   -0.7
AURF   84.96  336 P      11 20.22   -0.2
SHWJ   85.07  310 P      11 24.17    2.9X
RJF    85.11  341 eP     11 20.70   -0.3
       0.8s     26.60nm          5.5mb

     Z 22s      2.63um          5.6Msz
CEH    85.17   40 P      11 21.42    0.0
       1.1s    137.45nm          6.1mb
     Z 21s      0.58um          4.9Msz
GOGA   85.18   45 P      11 21.52    0.0
       1.5s     78.09nm          5.7mb
     Z 21s      0.78um          5.1Msz
CALN   85.20  336 P      11 21.76    0.1
JRSJ   85.31  310 P      11 17.06   -5.2X
CAF    85.34  340 eP     11 22.50    0.3
       0.8s     22.30nm          5.4mb
CDR    85.58  337 ePc    11 24.10    0.7
LFF    85.63  341 eP     11 22.90   -0.7
       1.1s     70.55nm          5.8mb
MDRJ   85.65  309 P      11 25.94    1.9
PGF    85.71  335 P      11 23.95   -0.2
LPO    85.77  341 eP     11 23.90   -0.4
       0.8s     21.65nm          5.4mb
MBH    85.89  310 eP     11 25.50    0.3
LESF   87.31  340 P      11 31.89    0.0
EPF    87.53  341 eP     11 31.80   -1.2
       1.1s     25.90nm          5.4mb
ETER   87.62  339 eP     11 33.40    0.0
EGRA   88.47  341 iPd    11 37.00   -0.4
ERUA   89.63  346 iPd    11 42.30   -0.7
ESEL   89.99  338 eP     11 45.00    0.3
ETOR   90.17  342 iPc    11 45.20   -0.4
GUD    90.78  343 eP     11 48.30   -0.2
EPLA   91.71  344 iPc    11 51.70   -0.9
EVIA   92.36  341 eP     11 55.10   -0.7
EHOR   93.72  343 eP     12 02.20    0.3
EJIF   95.09  343 eP     12 08.00   -0.2
TIC   123.55  334 PKP    17 42.60   -0.6
KIC   123.74  334 PKP    17 42.90   -0.6
       1.0s     24.00nm
                  e      19 21.00
LIC   123.96  334 PKP    17 43.20   -0.8
     Z 20s      0 22um          4.8Msz
BUL   128.19  281 iPKPc  17 52.50    0.4
BFT   130.94  275 ePKP   17 53.00   -4.3X
       0.5s     8.00nm
SLR   132.17  276 iPKPc  17 58.70   -0.9
       0.7s     83.00nm
     Z 20s      4.00um          6.1Msz
KSR   133.20  277 iPKPc  18 02.00    0.4
PRY   133.50  276 ePKP   17 57.50   -4.6X
       0.9s     25.00nm
ZOBO  134.10   63 PKP    17 57.90   -6.1X
       1.5s     27.96nm
                 LR      03 30.00
LPB   134.32   63 PKP    18 03.30   -0.9
CNCB  134.61   63 PKP    18 05.90    1.0
                  e      21 29.00
BLF   135.75  274 iPKPc  18 07.20    0.9
       0.8s     40.00nm
CCH   136.17   62 ePKP   18 08.00    0.4
FRS   136.74  274 ePKP   18 08.20    0.3
       0.8s     20.00nm
GRM   137.98  269 e(PKP) 18 14.00    3.8X
SIV   138.03   55 PKP    18 13.00    2.3X
YJA   140.16   66 e(PKP) 18 08.00   -7.0X
POF   140 18  279 iPKPc  18 08.00   -6.2X
FSA   142.62   71 ePKPc  18 15.00   -3.6X
CER   143.01  274 ePKP   18 16.20   -3.0X
       1.3s    100.00nm
RTBS  143.94   81 ePKPc  18 20.10   -0.6
RTCB  144.28   80 ePKPc  18 19.50   -2.0
CYA   144.36   73 ePKPc  18 19.30   -2.3X
RTLL  144.41   80 iPKPd  18 19.00   -2.6X
CFA   144.73   80 iPKPc  18 20.00   -2.2X
MDZ   145.08   82 ePKP   18 23.60    0.9
RTPR  145.08   76 ePKPc  18 21.00   -1.7
PPD   148.22   48 ePKP   18 27.30   -0.8
                  e      18 32.30
RIFB  148.36   40 ePKPd  18 30.00    1.6
                  e      18 53.70
NVL   149.71  204 iPKPd  18 29.00    0.1
       2.0s    484.00nm
CACB  150.11   40 ePKP   18 31.90    0.7
                  i      18 37.50
                  e      18 49.10
VAO   151.15   42 ePKP   18 38.70    6.1X
                  e      18 58.70
SNA   153.56  198 iPKPd  18 43.40    8.9X
       1.1s     64 00nm
     S.D. = 0 9  on 385 of 431 obs.

% MAY 06, 1993  08h 26m 04.89± 0.87s
   40.700 N ± 7.3km   22.942 E ± 8.5km
   DEPTH =  10.0km  (geophysicist)
 GREECE                              (364)

THE     0.07 166 ePg   26 06.20   -1.0
                 eSg   26 07.16
SOH     0.34  69 ePg   26 11.64   -0.2
                 iSg   26 13.56
KNT     0.46 356 ePg   26 14.36    0.1
                 eSg   26 21.80
GRG     0.48 302 ePg   26 14.80    0.1
PAIG    0.96 144 ePg   26 24.16    1.1
     S.D. = 1.1  on   5 of   5 obs.
-----------------------------------------
% MAY 06, 1993  08h 34m 45.85± 1.41s
   39.533 N ±12.5km   28.819 E ± 9.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      ML 2.8 (ISK).

KCT     0.80 334 iPg   35 00.50   -0.9
                 eSg   35 12.60
BNT     1.07 320 iPg   35 06.30    0.2
EDC     1.10 318 ePg   35 06.00   -0.4
ALT     1.11 115 ePn   35 06.60   -0.1
YLV     1.12  22 iPg   35 05.80   -1.0
HRT     1.44  27 ePn   35 12.80    0.8
EYL     1.46  44 ePn   35 12.20   -0.1
CTT     1.64 350 ePn   35 16.30    1.5
     S.D. = 1.0  on   8 of   8 obs.
-----------------------------------------
•  MAY 06, 1993  08h 46m 03.22± 1.31s
   39.508 N ±11.6km   28.854 E ± 8.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      ML 2.9 (ISK).

KCT     0.83 333 iPg   46 19.80    0.5
                 eSg   46 31.80
ALT     1.07 114 ePn   46 23.60    0.1
BNT     1.11 320 iPn   46 23.30   -0.8
YLV     1.13  20 iPn   46 23.80   -0.6
EDC     1.13 318 iPn   46 24.00   -0.4
GPA     1.36  55 ePn   46 28.00   -0.3
HRT     1.45  25 ePn   46 29.30   -0.2
EYL     1.46  43 ePn   46 29.90    0.3
CTT     1.67 349 iPn   46 34.20    1.6
     S.D. = 0.8  on   9 of   9 obs.
-----------------------------------------
   MAY 06, 1993  08h 46m 36.90± 0.63s
   21.527 S ± 5.9km   68.327 W ± 9.5km
   DEPTH = 175.2 ± 12.7 km
   4.3mb (  1 obs.)
 CHILE-BOLIVIA BORDER REGION         (124)

YJA     2.70 104 iPc   47 22.00   -0.6
                 S     47 55.50
ANT     2.90 221 eP    47 24.50   -0.1
                 iS    47 55.00
SLA     4.12 141 eP    47 40.00   -0.1
CCH     4.61  27 P     47 47.00    0.3
CNCB    4.70   4 P     47 49.10    1.0
                 e     51 43.00
LPB     4.97   3 P     47 51.20   -0.4
FSA     5.01 155 i(P)  47 52.50    1.0
ZOBO    5.23   2 P     47 55.80    0.7
ARE     5.86 329 eP    48 02.00   -1.1
                 eS    49 05.00
PPD    15.81  95 eP    50 10.40   -1.1
VAO    19.82  98 eP    50 56.00   -0.1
                 e     50 56.90
CACB   20.08  94 ePc   50 59.40    0.6
                 e     51 00.00
YKA    91.39 340 eP    59 28.10    4.6X
       0.6s     1.80nm          4.3mb
     S.D. = 0.9  on  12 of  13 obs.
-----------------------------------------
•  MAY 06, 1993  08h 49m 35.98± 1.38s
   25.040 S ± 7.8km   70.817 W ±18.1km
   DEPTH =  10.0km  (geophysicist)
 NEAR COAST OF NORTHERN CHILE        (122)

ANT     1.38  15 iP+   50 01.00   -0.2
                 iS    50 27.50
FSA     4.46 104 e(P)  50 46.30    1.1
CYA     5.63 128 eP    51 01.20   -0.6
```

06d 08h

RTPR 6.48 145 ePc 51 12.30 -1.5
RTLL 6.60 162 e(P) 51 15.20 -0.3
RTCB 6.66 165 e(P)d 51 16.70 0.3
RTBS 6.71 170 e(P)c 51 12.80 -4.1X
CFA 6.93 161 e(P) 51 20.50 0.5
TCA 8.34 140 eP 51 36.00 -3.9X
RFA 9.91 169 eP 52 02.20 0.7
S.D. = 1.0 on 8 of 10 obs.

% MAY 06, 1993 09h 40m 23.12± 0.87s
39.407 N ± 5.2km 16.419 E ± 8.7km
DEPTH = 12.5 ± 6.1 km
SOUTHERN ITALY (390)

ACI 0.18 252 P 40 27.10 -0.2
ROI 0.20 35 P 40 27.60 -0.2
TDS 0.26 346 P 40 28.50 -0.3
eSg 40 34.00
CZI 0.29 230 P 40 29.10 -0.2
CSI 0.38 345 P 40 31.20 0.1
eSg 40 38.70
MMN 0.59 326 P 40 35.80 1.1
MGR 0.99 318 P 40 41.70 0.1
eSn 40 55.80
SOI 1.36 192 P 40 48.20 0.4
eSn 41 07.00
SGO 1.43 324 P 40 48.00 -0.8
S.D. = 0.7 on 9 of 9 obs.

MAY 06, 1993 09h 46m 41.16± 0.67s
40.467 N ± 5.9km 21.870 E ± 5.3km
DEPTH = 10.0km (geophysicist)
GREECE (364)

FNA 0.49 310 ePg 46 50.82 -0.3
eSg 46 57.86
LIT 0.60 127 ePg 46 52.90 -0.4
eSg 47 01.24
GRG 0.63 39 ePg 46 53.46 -0.5
THE 0.85 78 ePg 46 56.70 -0.8
VAY 1.00 32 ePn 47 01.70 1.5
OHR 1.04 309 iPn 47 00.50 -0.3
KNT 1.04 48 ePg 47 01.02 0.1
eSg 47 15.28
SOH 1.18 72 ePg 47 03.18 -0.1
AGG 1.49 166 ePb 47 08.78 0 8
PAIG 1.49 111 ePb 47 07.82 -0.1
SKO 1.54 348 ePn 47 13.10 4.4X
i 47 39.50
S.D. = 0.8 on 10 of 11 obs.

? MAY 06, 1993 09h 49m 33.98± 7.18s
27.370 S ±54.0km 178.996 W ±54.1km
DEPTH = 375.1 ± 44.7 km
4.6mb (5 obs.)
KERMADEC ISLANDS REGION (177)

VUN 9.61 345 ePc 51 48.10 -0.1
DZM 14.24 289 iPd 52 42.50 0.7
ASPA 42.48 264 iPd 56 55.60 0.1
1.2s 32.80nm 4.5mb
iPP 58 26.10
iS 02 30.50
eScP 03 31.50
WB2 43.17 269 iPc 57 00.00 -1.0
0 6s 26.80nm 4.7mb
WRA 43.18 269 P 57 00.40 -0.7
0.9s 8.50nm 4.0mb
NANU 58.96 259 eP 58 58.00 0.4
LEM 72.15 271 iPc 00 21.50 0.5
MAT 75.26 326 eP 00 37.00 -1.1
1.0s 15.00nm 4.7mb
BJI 90.15 316 eP 01 54.50 1.2
1.0s 11.00nm 4.7mb
Z 16s 0.41um 5.0MszX
KAF 141.41 341 iPKP 08 19.10 -2.5X
0.3s 1.00nm
UPP 145.57 345 iPKP 08 32.60 3.9X
NB2 145 63 351 PKP 08 33.80 4.9X
0.9s 22.80nm
HFS 146.11 349 ePKP 08 33.60 4.0X
0.3s 6.00nm
KSP 153.83 338 ePKP 08 54.80 13.3X
e 09 07.00
S.D. = 1.0 on 9 of 14 obs.

? MAY 06, 1993 09h 52m 01.37± 2.08s
46.462 N ±41.0km 154.705 E ±30.0km
DEPTH = 33.0km (normal)
5.0mb (11 obs.)
EAST OF KURIL ISLANDS (222)

KUSJ 7.87 248 eP 53 54.70 -1.6
eS 55 18.30
ASAJ 8.82 259 eP 54 11.70 2.2X
HOOJ 9.13 248 eP 54 14.20 0.5
eS 55 51.30
IMA 33.40 36 eP 58 37.79 -0.9
0.9s 2.71nm 4.2mb
INK 41.31 32 eP 59 47.00 2.2X
MBC 44.49 20 eP 00 11.00 0.3
YKA 50.50 37 eP 00 58.20 0.5
0.7s 1.30nm 4.0mb
GUN 56.12 276 P 01 40.40 0.1
KKN 56.61 277 P 01 44.80 1.1
0.8s 30.00nm 5.4mb
PKI 56.66 276 P 01 44.00 -0.1
0.6s 11.00nm 5.1mb
DMN 56.84 277 P 01 46.00 0.6
0.8s 38.00nm 5.5mb
GKN 56.92 277 P 01 46.00 0.2
0.6s 27.00nm 5.5mb
WRA 68.61 201 P 03 09.90 6.8X
0.9s 1.00nm 3.9mb X
NB2 68.85 342 P 03 01.90 -2.3
0.7s 6.40nm 4.8mb
HFS 69.10 340 eP 03 02.40 -3.3X
0.9s 21.70nm 5.2mb
CLL 77.17 336 iPd 03 52.30 -0.7
0.9s 11.00nm 4.9mb
PRU 77.92 335 eP 03 57.30 0.1
KHC 78.97 335 eP 03 58.90 -4.1X
e 04 07.60
KBA 80.88 334 iPc 04 14.50 1.0
1.2s 11.00nm 4.7mb
WTTA 81.22 336 iPc 04 16.40 1.2
0.9s 8.90nm 4.8mb
i 04 20.50
S.D. = 1.1 on 15 of 20 obs.

? MAY 06, 1993 10h 01m 24.47± 0.91s
37.330 N ± 8.6km 28.535 E ± 7.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YER 0.28 226 iPg 01 30.00 -0.4
CIN 0.45 307 ePg 01 34.00 0.4
iSg 01 41.00
ELL 1.24 117 ePn 01 48.10 0.4
KHL 1.26 38 ePn 01 47.50 -0.5
S.D. = 0.9 on 4 of 4 obs.

? MAY 06, 1993 10h 10m 45.84± 1.14s
39.085 N ± 8.4km 27.647 E ±13.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

IZM 0.75 204 iPg 11 00.50 0.0
iSg 11 13.00
EZN 1.26 306 ePn 11 09.40 0.1
EDC 1.27 7 ePn 11 09.00 -0.4
KCT 1.28 25 iPn 11 10.00 0.3
S.D. = 0.6 on 4 of 4 obs.

MAY 06, 1993 11h 36m 37.31± 1.07s
40.467 N ± 9.0km 21.833 E ± 7.7km
DEPTH = 10.0km (geophysicist)
GREECE (364)

FNA 0.47 312 ePg 36 46.82 -0.1
eSg 36 54.18
LIT 0.62 126 ePg 36 49.76 -0.1
eSg 36 57.98
GRG 0.65 41 ePg 36 50.78 0.4
eSg 36 59.48
OHR 1.02 310 eP 37 08.00 11.4X
KNT 1.07 49 ePg 36 57.24 -0.1
eSg 37 12.82
SOH 1 21 72 ePb 36 59.46 -0.4
PAIG 1.51 110 iPb 37 04.72 0.3
S.D. = 0.4 on 6 of 7 obs.

% MAY 06, 1993 11h 54m 03.38± 1.30s
39.534 N ±11.4km 28.777 E ± 7.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.9 (ISK).

KCT 0.78 336 iPg 54 18.60 0.0
eSg 54 30.60
BNT 1.05 322 iPn 54 23.20 0.0
EDC 1.07 319 iPn 54 23.00 -0.6
YLV 1.13 24 iPn 54 23.50 -1.1
ALT 1.14 114 ePn 54 24.70 -0.1
GPA 1.40 57 ePn 54 29.00 0.0
HRT 1.46 28 ePn 54 30.60 0.9
EYL 1.48 45 ePn 54 29.90 -0.2
CTT 1.63 351 iPn 54 33.30 1.1
S.D. = 0.7 on 9 of 9 obs.

? MAY 06, 1993 12h 02m 06.87± 1.10s
39.097 N ± 8.2km 27.624 E ±13.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

IZM 0.75 202 iPg 02 21.60 0.0
iSg 02 35.10
EZN 1.24 306 iPn 02 30.00 0.1
EDC 1.26 8 ePn 02 30.00 -0.3
KCT 1.28 26 ePn 02 30.90 0.2
S.D. = 0.4 on 4 of 4 obs.

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* MAY 06, 1993 12h 08m 32.01± 0.93s
31.296 N ± 7.9km 142.932 E ±20.6km
DEPTH = 33.0km (normal)
4.0mb (2 obs.)
SOUTH OF HONSHU, JAPAN (211)

KAKJ 5.41 336 P 09 53.30 0.9
eS 10 53.90
CHJJ 5.77 326 P 09 57.60 0.1
S 11 00.90
IIDJ 5.92 316 P 09 59.70 0.0
MAT 6.54 324 eP 10 08.00 -0.4
0.8s 13.43nm 4.8mb X
eS 11 05.00
NIIJ 6.76 332 eP 10 10.90 -0.6
MTMJ 6.78 322 P 10 12.10 0.2
YAMJ 7.26 342 P 10 18.60 0.1
eS 11 38.30
OFUJ 7.84 353 eP 10 26.30 -0.2
eS 11 49.50
WB2 51.61 190 iPc 17 37.10 -0.3
0.7s 2.60nm 4.3mb
WRA 51.61 190 P 17 37.80 0.3
1.0s 1.00nm 3.7mb
S.D. = 0.5 on 10 of 10 obs.

MAY 06, 1993 12h 13m 17.54± 0.91s
39.533 N ± 8.5km 28.845 E ± 5.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 3.0 (ISK).

KCT 0.81 332 iPg 13 32.60 -0.6
eSg 13 46.10
ALT 1.09 115 ePn 13 37.70 -0.4
EDC 1.11 317 ePn 13 38.00 -0.3
YLV 1.11 21 iPn 13 37.60 -0.8
GPA 1.36 56 ePn 13 43.10 0.6
HRT 1.43 26 ePn 13 43.80 0.2
EYL 1.44 44 ePn 13 43.90 0.1
CTT 1.64 349 ePn 13 47.60 1.0
EZN 1.97 279 ePn 13 51.50 0.3
S.D. = 0.7 on 9 of 9 obs.

& MAY 06, 1993 12h 16m 14.13s
59.904 N 153.085 W
DEPTH = 118.2km
4.2mb (3 obs.)
SOUTHERN ALASKA (2)
<AEIC>.

INE 0.16 4 iPc 16 29.89 0.6
eS 16 42.51
INW 0.17 352 iPc 16 29.78 0.6
OPT 0.26 196 iPc 16 30.24 0.8
S 16 41.80
AUL 0.55 199 iPd 16 31.80 -0.7

			eS	16	45.42		CTGM	5.92	75	iPd	17	39.27	-1.6	SIV	12.62	127	iPc	06	19.20	15.9X								
AUE	0.57	195	iPd	16	31.72	-0.8	SDN	6.06	224	P	17	40.40	-2.3	BOG	13.26	349	iP	06	16.00	6.0X								
AUW	0.57	200	iPd	16	31.93	-0.6	IMA	6.19	358	ePd	17	41.86	-2.8				iS	08	34.00									
PDB	0.57	259	iPd	16	31.69	-0.9	PRP	6.62	28	ePd	17	47.02	-3.4	FUQ	14.03	351	iP	06	21.00	3.4X								
			eS	16	45.40		FYU	7.56	25	eP	17	59.74	-3.3	ANT	15.18	176	iP	06	30.20	1.8								
RS1	0.58	16	iPc	16	32.07	-0.8	SIT	9.72	99	(P)	18	26.34	-5.8	BMG	15.52	354	eP	06	28.50	-3.4X								
RS2	0.58	16	iPc	16	32.07	-0.9	INK	11.94	37	eP	19	00.50	-0.9	SDV	17.26	3	iPd	06	50.50	1.6								
RSO	0.58	16	iPc	16	32.05	-0.9	YKA	18.53	65	eP	20	21.00	-2.7	CEOS	17.67	10	iPc	06	54.90	2.2								
AUI	0.60	197	iPd	16	31.91	-0.9		0.4s		12.80nm			4 6mb	FSA	18.27	164	iP	06	58.50	0.3								
			eS	16	45.46		MBC	20.13	23	eP	20	37.50	-2.7	OLLA	18.95	14	eP	07	06.90	2.1								
RDW	0.60	13	iPc	16	32.10	-0.9		0.8s		7.00nm			4.1mb	GUAC	19.01	13	iPc	07	08.00	2.6								
RDN	0.63	15	ePc	16	32.56	-0.6	GMW	21.55	111	(P)	20	50.69	-4.0	UPA	19.10	335	iPd	07	08.30	2.2								
NCT	0.66	7	iPc	16	32.56	-0.9				e	21	17.03		UPA	19.10	335	iP-	07	08.52	2.4								
DFR	0.72	16	iPc	16	32.90	-0.9	RSSD	33.16	96	eP	22	36.98	-4.1				eS	10	04.74									
XLV	0.83	123	iPc	16	33.58	-1.1		0.7s		2.17nm			4.1mb	GUAN	19.21	18	iPd	07	09.80	2.6								
MCNL	0.96	222	iPd	16	34.86	-1.1				e	23	05.01		CAR	19.39	14	iPc	07	11.60	2.7								
			eS	16	50.94			88 obs. associated						MORO	19.47	9	eP	07	11.40	1.7								
CNPM	1.01	111	iPc	16	35.51	-0.9	----------							ECO	19.51	335	iP	07	11.59	1.6								
			eS	16	52.08		MAY 06, 1993 13h 03m 18.11± 0.09s							DVD	20.04	327	iPc	07	16.88	2.2								
CDD	1.02	197	iPd	16	35.30	-1.2	8.472 S ± 2.1km 71.485 W ± 2.4km							TRN	21.48	28	eP	07	30.12	2.2								
			eS	16	52.44		DEPTH = 572.8km (geophysicist)										eS	11	01.55									
BRLK	1.12	96	iPc	16	36.71	-0.9	5.8mb (113 obs.)							RTRS	21.67	175	ePd	07	31.20	1.7								
			eS	16	54.11		WESTERN BRAZIL (113)							RTPR	22.21	169	iPd	07	33.90	-0.5								
NKA	1.25	47	iPc	16	39.84	1.0	Mw 6.1 (GS), 6.1 (HRV). mb 5.8							RTLL	22.92	173	e(P)	07	40.50	-0.4								
SYI	1.35	164	iPd	16	38.99	-1.0	(BRK). Felt at Rio Branco. Depth							RTCB	23.03	174	ePd	07	42.20	0.2								
CKL	1.35	16	iPd	16	39.48	-0.7	from broadband displacement							ZON	23.11	174	iPd	07	42.70	0.1								
CKT	1.37	18	iPd	16	39.57	-0.8	seismograms.							CFA	23.22	173	e(P)	07	43.20	-0.4								
SPU	1.38	21	iPd	16	39.55	-0.9	FAULT PLANE SOLUTION: P-Waves							RTCV	23.43	174	iPd	07	45.30	-0.2								
CKN	1.40	18	iPd	16	40.03	-0.6	NP1:Strike=170 Dip=45 Slip= -90							PPD	23.63	127	eP	07	46.80	-0.6								
BGL	1.41	14	iPd	16	40.34	-0.5	NP2: 350 45 -90										e	07	48.20	5kmX								
CP2	1.43	17	iPd	16	40.36	-0.8	Principal Axes:							TCA	23.64	165	iP	07	46.00	-1.4								
CPAM	1.43	19	iPd	16	40.50	-0.7	T Plg= 0 Azm= 80							FCV	23.77	25	eP	07	48.88	0.3								
CRP	1.44	18	ePd	16	40.06	-1.3	P 90 0							SVB	23.87	25	eP	07	51.50	2.0								
CGLM	1.51	20	ePd	16	41 26	-0.7	Comment: The focal mechanism is							SVV	23.93	25	eP	07	52.00	2.0								
SLKM	1.55	66	eP	16	41.17	-1.3	poorly controlled and							JACH	24.10	178	iP	07	51.94	0.4								
SVW	1.74	315	ePc	16	43.04	-1.8	corresponds to normal							BDF	24.13	109	iPc	07	53.50	1.5								
SEW	1.84	82	ePc	16	44.34	-1.5	faulting. The preferred fault										e	08	03.60	37kmX								
SUA	1.94	35	iPd	16	46.57	-0.8	plane is not determined.										ic	10	29.51									
			eS	17	11.73		RADIATED ENERGY							ROCH	24.38	179	iP	07	53.95	-0.2								
MPA	1.95	71	ePc	16	46.24	-1.1	No. of sta: 18 Focal mech. F							MDZ	24.41	175	eP	07	53.70	-0.6								
			eS	17	10.86		Energy 9.2±1.5*10**12 Nm										e	09	24.60									
KDC	2.18	172	ePd	16	47.62	-2.7	MOMENT TENSOR SOLUTION										e(S)	12	05.90									
PMS	2.20	51	P	16	49.00	-1.6	Dep 568 No. of sta: 24							MRA	24.42	168	ePd	07	53.40	-0.8								
SKT	2.22	19	iPd	16	49.60	-1.2	Moment Tensor; Scale 10**18 Nm							SLB	24.46	25	eP	07	55.30	0.5								
PTE	2.24	63	iPd	16	49.05	-1.9	Mrr=-1.04 Mtt=-0.11							PEL	24.56	178	iP	07	55.72	0.2								
PWA	2.36	41	P	16	51.00	-1.5	Mff= 1.14 Mrt=-0.39							FCH	24.76	178	iP	07	58.38	0.8								
PLRM	2.58	47	iPd	16	52.99	-2.4	Mrf=-0 38 Mtf=-0.88							SAN	24.87	178	iP	07	58.16	-0.1								
PMR	2.58	47	ePc	16	52.70	-2.7	Principal oxes:							LCCH	24.88	180	iP	07	58.24	0.0								
			S	17	21.75		T Val= 1.61 Plg= 4 Azm= 64							PCH	25.04	178	iP	07	59.96	0.1								
GHO	2.77	46	iPd	16	55.71	-2.3	N -0.23 32 156							BIM	25.07	24	eP	07	59.73	-0.4								
SML	3.01	49	iPd	16	58.82	-2.4	P -1.38 57 328							MVM	25.17	25	eP	07	59.65	-1.4								
HIN	3.33	79	eP	17	02.67	-2.8	Best Double Cauple:Ma=1.5*10**18							LNV	25.36	180	iP	08	01.98	-0.5								
TTA	3.35	336	iPd	17	03.70	-2.1	NP1:Strike=124 Dip=50 Slip=-134							MDN	25.66	23	eP	08	04.28	-1.0								
SCM	3.42	53	iPd	17	04.25	-2.5	NP2: 1 57 -50							RIFB	25.90	119	iPc	08	06.90	-0.7								
MID	3.46	95	P	17	05.80	-1.3	CENTROID, MOMENT TENSOR (HRV)										e	10	45.20									
HUR	3.50	27	eP	17	06.53	-1.2	Doto Used: GDSN										e	11	53.70									
VLZ	3.56	67	iPc	17	05.85	-2.6	L.P.B.: 42S, 99C							PAG	26.21	22	eP	08	08.50	-1.7								
CVA	3.72	77	eP	17	08.12	-2.5	Centroid Location:							MGH	26.66	20	eP	08	14.00	0.0								
			eS	17	50.06		Origin Time 13:03:25.4 0.1							MGP	26.67	9	P	08	14.20	0.2								
TRF	3.80	19	eP	17	09.74	-2.3	Lat 8.33S 0.01 Lon 71.38W 0.02							PORP	26.79	10	P	08	15.20	0.1								
KLU	3.87	63	iPd	17	10.12	-2.7	Dep 595.3 0.9 Half-duration 2.9							CLLP	26.82	10	P	08	15.50	0.1								
			eS	17	53.57		Moment Tensor; Scale 10**18 Nm							STH	26.90	349	iPc	08	15.98	-0.2								
RND	4.05	28	eP	17	12.98	-2.3	Mrr=-1.76 0.02 Mtt= 0.37 0.03							CPD	26.91	12	P	08	15.80	-0.4								
RAGM	4.23	80	eP	17	15.65	-2.1	Mff= 1.39 0.04 Mrt=-0.42 0.03							NEV	26.93	19	eP	08	15.31	-1.0								
TZL	4.31	57	eP	17	16.25	-2.4	Mrf= 0.03 0.03 Mtf=-0.68 0.03							SJG	26.93	11	iP	08	16.40	0.0								
MCK	4.32	25	iPd	17	17.04	-1.8	Principal Axes:							LRS	26.99	10	P	08	16.60	-0.3								
			eS	18	05.53		T Val= 1.74 Plg= 4 Azm=243							SKI	27.06	19	eP	08	16.22	-1.3								
KAIM	4.36	86	eP	17	17.99	-1.5	N 0.10 11 152							BPA	27.08	21	eP	08	16.00	-1.7								
SDG	4.50	51	iPd	17	18.90	-2.4	P -1.85 79 350							APR	27.16	10	P	08	19.00	0.7								
PAX	4.78	47	iPd	17	22.88	-2.3	Best Double Cauple:Ma=1.8*10**18							LPR	27.18	12	P	08	18.10	-0.5								
GLB	4.81	67	iPd	17	22.84	-2.8	NP1:Strike=344 Dip=43 Slip= -74							CACB	27.21	122	eP	08	18.40	-0.7								
THY	4.96	42	eP	17	26.06	-1.6	NP2: 143 49 -104										e	08	20.10	6kmX								
CROM	5.02	76	ePd	17	26.68	-1.9											e	09	57.70									
NEA	5.05	20	iPd	17	26.20	-2.6	ARE	7.94	180	iPd	05	18.80	1.8				iS	12	15.00									
SNH	5.15	82	ePc	17	28.71	-1.4				iS	06	45.30		VAO	27.60	124	eP	08	21.50	-0.8								
WRH	5.15	25	eP	17	27.26	-2.8	ZOBO	8.42	157	iPd	05	23.80	1.8		0.3s		43.13nm			5.6mb								
TGL	5.17	76	iPd	17	28.59	-1.9				S	06	50.00					e	08	23.00	5kmX								
MLY	5.26	11	eP	17	28.96	-2.7	LPB	8.67	158	iPd	05	25.00	0.8				e	09	53.30									
CYK	5.33	83	eP	17	31.15	-1.3				S	07	07.00		CPB	27.64	20	eP	08	21.42	-1.1								
HDA	5.35	30	iPd	17	30.16	-2.8	CNCB	8.97	158	iPd	05	29.10	1.7	TPX	31.04	318	(P)	08	53.00	1.2								
CCB	5.36	25	iPd	17	29.97	-3.0	CCH	10.28	150	iPc	05	41.90	1.7	OXX	35.60	316	(P)	09	32.50	2.4								
BALM	5.43	73	iPd	17	32.33	-1.8	ANTI	10.37	320	P	05	45.05	3.6X	PPM	38.27	316	(P)	09	54.50	2.2								
MDM	5.55	22	iPd	17	32.84	-2.8	VC1	10.40	318	P	05	44.97	3.4X	III	38.40	314	(P)	09	55.00	2.0								
FBA	5.58	24	ePd	17	32.78	-3.3	CAYA	10.68	322	P	05	48.20	3.8X	UNM	38.84	316	(P)	09	58.00	1.4								
			S	18	33.01		GGP	10.87	319	P	05	47.13	0.7	CRX	39.23	315	(P)	10	02.50	2.6								
YAH	5.69	80	eP	17	35.78	-2.0	YANA	10.90	319	P	05	49.42	2.8	MRX	40.49	314	(P)	10	12.00	2.4								
GLM	5.74	25	ePd	17	35.31	-3.0	COTA	11.10	322	P	05	51.30	2.7	AGX	42.70	315	(P)	10	29.50	2.4								

06d 13h

GOGA	43.18	345	iPd	10	29.79	-0.9			1.5s	867.41nm		5.9mb				e	41	55.90				
	0.4s	410.73nm			6.3mb			Z	20s	0.27um		4.3Msz	KING	61.16	74	P	12	39.00	-1.1			
Z	18s	1.14um			4.8Msz					ePcP	12	51.74		PAS	61	25	317	iPd	12	40.09	-0.2		
		ePcP	12	04.48						epP	13	51.76	594kmX	TPNV	61.64	320		P	12	43.68	0.7		
		esPc	13	14.00						esPc	14	50.58			0.6s	223.25nm				5.7mb			
		sP	13	41.16						sP	14	51.17		DUG	61.64	325	iP		12	42.83	-0.1		
		eS	16	13.46						eS	18	55.21			1.4s	794.99nm				5.9mb			
		SS	20	05.02			CBM	55.24	3	iPd	11	58.75	-0.9				ePcP	13	16.54			
CEH	44.70	351	iPd	10	41.53	-0.9		0.7s	468.35nm			5.9mb					epP	14	37.05	576kmX		
0.4s	213.75nm				6.0mb			Z	18s	0.83um		4.8Msz					esP	15	35.32			
Z	19s	1.20um			4.8Msz					iPcP	12	51.21					e	20	21.51			
		ePcP	12	12.37						epPc	13	49.33	578kmX				e	23	39.18			
		SP	13	26.85						sP	14	46.20					e	28	01.51			
		esPc	13	28.06						esPc	14	49.25					eP'P'	41	46.26			
		eS	16	36.15						eS	18	52.70					e	41	53.07			
MYNC	44.93	345	P	10	50.00	5.7X	EEO	55.28	354	ePd	12	01.30	1.3	MAMG	62.10	74	P	12	42.90	-3.3X		
Z	18s	1.46um			4.9Msz					pP	12	54.50	239kmX	JAQ	62.14	357	iPd	12	43.10	-2.6		
TKL	45.40	346	ePd	10	46.59	-1.2	GLD	57.25	329	ePd	12	13.63	-0.2	ULM	62.21	343	iPd	12	47.20	1.0		
GBTN	45.51	345	ePd	10	47.61	-1.1		1.2s	665.82nm			5.8mb		ISA	62.32	318	iPd	12	47.42	0 2		
		e	11	55.21	331kmX			Z	20s	1.89um		5.2Msz			1.5s	1147.58nm				6.1mb		
		eS	16	44.75						S	19	29.68					epPc	14	39.65	560kmX		
MZX	46.47	313	(P)	10	56.50	0.4	GOL	57.29	329	iP	12	13.17	-1.0				esPc	15	40.90			
CBN	46.76	354	iPc	10	57.20	-0.9		2.2s	2872.64nm			6.2mb		ABL	62.36	317	iPd	12	47.40	-0.3		
		e	12	19.00	414kmX			Z	20s	615.00um		7.7MszX					epP	14	43.79	587kmX		
GRT	47.59	340	ePc	11	02.39	-2.1				esP	15	05.33					e	14	48.68			
MIAR	47.62	335	iPd	11	03.25	-1.5				sP	15	07.99		SBC	62.47	316	iPd	12	48.06	-0.1		
0.6s	494.10nm				6.2mb					e	17	16.16					epP	14	41.29	566kmX		
		ePcP	12	21.69						eS	19	26.00		KDS	62.49	71	iPd	12	55.30	6.7X		
OLY	47.63	338	ePd	11	02.75	-2.1				eP'P'	41	51.98		HVU	62.69	326	iPd	12	48.69	-1.0		
		ePcP	12	21.73						e	42	02.66					epP	14	44.70	584kmX		
ELC	48.46	341	ePd	11	08.58	-2.4	PV08	58.19	326	iPd	12	19.86	-0.6	TNP	62.94	321	ePd	12	51.18	-0.2		
		ePcP	12	23.37			PV10	58.27	326	iPd	12	19.58	-1.3	BCH	63.13	316	iPd	12	52.74	0.2		
MCWV	48.51	351	iPd	11	10.92	-0.4				esP	15	15.92					epP	14	49.35	586kmX		
LTX	48.72	322	ePd	11	11.36	-1.9	GLA	58.35	317	iPc	12	20.87	-0.4	MRCM	63.51	320	ePd	12	54.64	-0.4		
		iPcP	12	25.99						epP	14	13.95	582kmX	BONR	63.54	320	iPd	12	55.44	0.1		
GMTN	49.17	357	iP	11	16.00	-0.2				esP	15	14.40					epP	14	53.21	592kmX		
PNJ	49.19	357	iP	11	14.99	-1.3	PV09	58.41	326	iPd	12	21.23	-0.7				eP'P'	41	40.73			
		PcP	12	28.03						eP'P'	42	01.00		PKEM	63.64	317	eP	12	55.45	-0.2		
		PP	13	13.33			MBO	58.66	68	iPc	12	24.70	1.2	PHAM	63.71	317	ePd	12	55.99	-0.1		
		sP	14	08.80						iS	19	47.70					epP	14	53.23	588kmX		
		S	17	37.90			PFO	59.77	317	iPd	12	30.43	-0.4	MEMM	63.78	319	ePd	12	57.20	0.7		
FVM	49.48	340	iPd-	11	17.00	-1.6				esPc	15	25.23		MMPM	63.81	319	ePd	12	57.02	-0.1		
		e	12	03.38	211kmX		PLM	59.90	316	iPd	12	31.52	-0.2				epP	14	54.42	589kmX		
		ePcP	12	28.83						ePcP	13	09.83		FRI	63.90	318	ePd	12	56.15	-1.1		
		eS	17	37.07						epP	14	25.80	583kmX	KVN	64.07	321	ePd	12	58.12	-0.4		
CCM	49.83	340	iPd	11	19.62	-1.5	RSSD	60.07	333	ePc	12	32.25	-0.4				epP	14	56.25	592kmX		
FNO	49.90	332	iPc	11	20.20	-1.5		0.4s	383.54nm			6.0mb		TPMT	64.15	329	iPd	12	58.90	-0.1		
SLM	50.01	341	P-	11	18.78	-3.6X		Z	21s	0.77um		4.8Msz		LTMT	64.23	329	ePd	13	00.44	0.9		
		PcP	12	27.67						pP	14	27.60	590kmX	MEMT	64.42	330	iPd	13	00.35	-0.3		
		S	17	43.62						sP	15	31.36		LLA	64.51	317	ePd	13	01.07	-0.1		
MEO	50 08	331	iPc	11	22.00	-1.0				e	19	13.15		PRS	64.64	317	ePd	13	02.06	0.1		
OCO	50.16	332	iPc	11	24.40	0.8				S	20	07.85		BGMT	64.69	329	ePd	13	02.09	-0.3		
HRV	50.73	360	iPd	11	26.78	-0.8				SS	24	10.60		MCMT	64.82	329	iPd	13	03.27	0.0		
0.7s	404.65nm				6.0mb					SSS	27	48.56		SAO	64.92	317	ePd	13	03.38	-0.3		
Z	19s	0.81um			4.7Msz					eP'P'	41	20.73			1.3s	774.88nm				6.0mb		
		ePcP	12	33.15						e	41	54.13					pP	15	04.25	608kmX		
		epP	13	15.82	590kmX					e	44	10.93					S	20	57.88			
		esPc	14	13.31			MSU	60.15	324	iPd	12	33.22	-0.1				e	24	26.23			
		e	16	21.92						ePcP	13	10.98		SXM	64.93	331	iPd	13	03.85	0.0		
		S	17	59.77						epP	14	28.83	591kmX	CM8	64.93	319	iPd	13	03.43	-0.4		
		SS	31	48.91						esP	15	22.34			2.0s	630.00nm				5.8mb		
PCO	50.91	334	iPc	11	27.70	-1.4				eP'P'	41	50.38					(pP)	14	59.97	579kmX		
TYNO	51.88	352	P	11	34.85	-1.2				e	41	58.22					eS	21	00.68			
ACO	51.89	332	iPc	11	35.22	-1.0	EMUT	60.26	326	iPd	12	33.65	-0.4	LCCM	65.03	330	iPd	13	04.09	-0.4		
DLA	51.91	351	P	11	34.30	-1.9				ePcP	13	11.97		ARN	65.30	318	iPd	13	06.59	0.5		
STCO	51.91	353	P	11	35.13	-1.0				(pP)	14	29.46	592kmX				epP	15	03.83	582kmX		
LDN	52.02	351	P	11	35.25	-1.7				eP'P'	41	49.90		LRM	65.31	330	ePd	13	06.24	0.0		
ELF	52.19	351	P	11	36.30	-1.9				e	41	56.66		COE	65.35	318	iPd	13	06.84	0.5		
ACTO	52.42	352	P	11	38.45	-1.4	PEC	60.41	317	iPd	12	34.43	-0.5				epP	15	04.17	583kmX		
WLVO	52.52	354	P	11	39.12	-1.4		0.7s	157.03nm			5.4mb		HBMT	65.37	330	ePd	13	06.24	-0.4		
RSNY	52.84	357	ePc	11	41.55	-1.4				ePcP	13	11.40		MHC	65.37	318	ePd	13	06.90	0.2		
0.7s	179.68nm				5 6mb					epP	14	29.92	589kmX		0.9s	280.00nm				5.7mb		
Z	21s	0.46um			4.5Msz					esP	15	21.58					eS	21	08.15			
		ePcP	12	40.88						eP'P'	41	43.00		GCC	65.44	317	ePd	13	06.93	0.0		
		epP	13	32.08	590kmX					e	41	56.00		BUT	65.50	330	iPd	13	07.03	-0.3		
		eScP	15	42.70			ARUT	60.43	322	iPd	12	35.15	0.1	HRY	65.63	331	iPd	13	08.03	0.0		
GAC	54.05	357	ePd	11	50.90	-0.4				epP	14	31.43	595kmX	STAN	65.76	317	ePd	13	09.35	0.5		
		pP	12	47.50	258kmX		DAU	60.92	326	iPd	12	38.24	-0.2		1.7s	1390.00nm				6.2mb		
ALQ	54 37	325	ePd	11	53.17	-0.9				ePcP	13	15.42					eS	21	11.71			
0.9s	713.77nm				6.0mb					epP	14	33.70	587kmX	HMR	65.92	318	eP	13	11.06	1.2		
		ePcP	12	48.07						eP'P'	41	52.03		PCC	65.95	317	ePd	13	10.17	0.1		
ANMO	54.38	325	iPd	11	53.43	-0.7	VTV	60.92	317	iPd	12	38.09	0.0	JEGM	66.01	317	eP	13	10.89	0.5		
		e	13	51.62	643kmX		SSK	60 96	317	ePd	12	38.33	-0.3	BKS	66.06	318	ePd	13	10.95	0.2		
		esPc	14	43.93						ePcP	13	13.96			0.8s	370.00nm				5.9mb		
LMN	54.41	6	ePd	11	55.60	1.7	GSC	61 00	318	iPd	12	38.74	-0.1				eS	21	14.09			
		pP	12	50.00	246kmX					ePcP	13	13.92		ZSP	66.11	318	eP	13	11.31	0.3		
TUC	55.22	319	iPd	11	59.09	-0.9				eP'P'	41	48.24		ORV	66.51	320	ePd	13	13.78	0.3		

06d 13h

NTYM	66.62	318	ePd	13	14.27	0.2	PPN	76.06	254	iPc	14	10.60	1.5	DMU	82.34	33	eP	14	40.90	-0.3
			epP	15	12.44	584kmX	OJEN	76.07	50	iP	14	12.00	3.0		0.8s	198.00nm				5.7mb
MIN	67.02	320	ePd	13	15.85	-0.9	PAE	76.19	254	iPc	14	11.30	1.4	EPF	82.72	45	eP	14	43.80	0.3
	1.8s	400.00nm				5.6mb	PPT	76.19	254	iPc	14	11.70	1.8		0.6s	40.75nm				5.1mb
			eS	21	23.97		ALJ	76.23	49	iP	14	13.00	3.1X	YRH	83.13	34	eP	14	45.00	-0.2
LMEM	67.11	321	eP	13	16.78	-0.5	EJIF	76.25	49	iPc	14	11.93	2.0	SALF	83.23	45	P	14	48.21	2.2
WDC	67.74	320	ePd	13	19.12	-1.8				epP	16	18.50	609kmX	YRC	83.33	34	eP	14	46.50	0.3
	0.6s	185.68nm				5.8mb	AFR	76.39	254	iPc	14	12.40	1.5	SIT	83.35	330	(P)	14	46.10	-0.1
			epP	15	17.01	579kmX				pP	16	15.00	584kmX		1.2s	69.78nm				5.1mb
			S	21	31.76		STS	76.61	42	iPc	14	12.12	0.4	LESF	83.38	45	P	14	47.87	1.2
			SP	22	10.64					epP	16	16.00	591kmX	LPF	83.47	40	eP	14	46.40	-0.6
LBFM	67.77	321	ePd	13	20.88	-0.5	EPRU	76.62	49	iPd	14	13.17	1.2		1.1s	343.85nm				5.8mb
			epP	15	19.77	585kmX				epP	16	22.00	622kmX	HCG	83.48	35	eP	14	46.30	-0.7
LIC	67.85	80	P	13	21.60	-0.5	EHOR	76.92	48	iPd	14	14.03	0.6	MFF	83.56	41	eP	14	46.90	-0.6
TIC	67.94	79	Pd	13	22.30	-0.3				epP	16	21.00	609kmX		0.5s	70.85nm				5.5mb
LGPM	68.11	320	eP	13	22.35	-1.0	MAL	77.15	49	iPd	14	16.50	1.8	ESEL	83.57	48	iPc	14	48.57	0.9
			epP	15	21.42	585kmX				iPP	16	19.50					epP	16	57.00	602kmX
KIC	68.15	80	Pc	13	23.70	-0.2				iS	23	22.00		LFF	83.60	43	eP	14	47.40	-0.3
	0.8s	1595.00nm				6.6mb	EPLA	77.16	46	iPd	14	15.32	0.5		0.6s	127.00nm				5.7mb
			S	21	32.80					epP	16	22.10	607kmX	HTR	83.60	35	eP	14	46.80	-0.8
LNOR	68.38	327	P	13	24.16	-0.6	ERUA	77.35	43	iPd	14	16.01	0.3	AKU	83.62	20	iPd	14	49.00	1.6
FOX	68.64	319	iPd	13	27.32	1.0				epP	16	20.00	590kmX		0.8s	80.60nm				5.4mb
KMPM	68.66	319	ePd	13	27.19	0.6	ELUO	77.55	49	iPd	14	18.10	1.1	WIM	83.64	33	eP	14	48.00	0.3
			epP	15	26.07	582kmX				epP	16	21.30	585kmX	GRR	83.71	39	eP	14	47.60	-0.6
FHC	68.78	320	iPd	13	28.05	0.8	EGUA	77.82	50	iPc	14	19.80	1.4		0.5s	108.15nm				5.7mb
EKR	68.82	320	iPd	13	27.99	0.6				epP	16	28.50	618kmX	LPO	83.82	43	eP	14	48.30	-0.6
ARC	68.88	320	ePd	13	28.37	0.6	ECOG	77.97	49	iPd	14	21.01	1.7		0.9s	1161.85nm				6.5mb
	1.8s	1790.00nm				6.3mb				epP	16	24.90	588kmX	HAE	84.00	35	eP	14	49.10	-0.5
			eS	21	42.89		EBAN	78 12	48	iPd	14	20.59	0.7		1.1s	71.00nm				5.2mb
JBO	68.98	326	P	13	28.75	0.4				epP	16	28.40	611kmX	VDCF	84.00	45	P	14	51.43	1.6
NEW	69.31	329	iPd	13	29.48	-0.8	PAB	78.21	47	ePc	14	20.42	0.0	FLN	84.07	39	eP	14	49.40	-0.6
	0.7s	195.86nm				5.7mb		1.0s	345.74nm				5.7mb		0.7s	220.50nm				5.9mb
			(pP)	15	29.30	586kmX				epP	16	19.94	561kmX	Z	23s	0.80um				5.0MszX
			eP'P'	41	24.00					isPc	17	21.19		MTHF	84.22	45	P	14	51.84	0.9
CROR	69.34	325	P	13	31.51	0.9	GUD	78.75	46	iPd	14	23.90	0.6	LDF	84.24	39	eP	14	50.20	-0.6
FCC	69.45	348	iPd	13	34.50	3.7X				epP	16	28.00	587kmX		0.7s	274.30nm				6.0mb
VGB	69.54	325	iPd	13	32.27	0.6	EHUE	78.88	49	iPc	14	24.46	0.4	RJF	84.24	43	eP	14	50.20	-0.7
			epP	15	33.31	594kmX	ENIJ	78.89	50	iPd	14	24.84	0.8		0.9s	128.10nm				5.6mb
DBO	69.59	322	P	13	32.00	-0.1				epP	16	29.00	587kmX	ETER	84.26	46	iPc	14	51.31	0.2
DPW	69.61	328	iPd	13	32.12	0.1	EVIA	79.23	48	iPd	14	26.73	0.9				epP	16	58.90	596kmX
WAH2	69.63	327	P	13	32.25	0.2				epP	16	34.00	605kmX	PERF	84.33	46	P	14	52.29	0.8
SAW	70.13	328	P	13	35.00	-0.1	VAL	79.65	33	iP	14	28.20	0.7	CAF	84.49	43	eP	14	51.50	-0.7
EBG	70.27	327	P	13	36.58	0.7		0.7s	6.00nm				4.1mb X		1.0s	177.60nm				5.6mb
RNO	70.34	323	P	13	36.92	0.5				S	23	42.00		LSF	84.54	42	eP	14	51.50	-0.9
ASR	70.38	326	P	13	37.18	0.5	EALH	79.77	49	iPd	14	29.16	0.6		0.9s	142.85nm				5.6mb
WTV	70.42	328	P	13	36.92	0.1	NVL	79.85	160	iPd-	14	29.00	0.7	EAB	84.64	31	eP	14	51.50	-1.1
COR	70.45	323	iPd	13	37.76	0.8		1.0s	296.00nm				5.7mb	ESK	84.88	32	ePd	14	53.30	-0.5
SHW	70.76	325	ePd	13	38.93	0.0				e	14	54.00	95kmX	EAU	84.96	32	eP	14	54.10	-0.1
LON	70.85	326	P	13	39.00	-0.3				e	16	29.00		TCF	85.00	42	eP	14	53.60	-1.0
KMOR	71.16	324	P	13	42.17	1.0				iS	23	44.00			0.8s	102.10nm				5.5mb
BMW	71.49	325	iPd	13	43.41	0.4				e	24	24.00		EBH	85.09	31	eP	14	54.30	-0.5
			epP	15	43.09	579kmX				eSS	28	02.00			1.3s	34.00nm				4.8mb
JCW	71.77	327	P	13	44.03	-0.6	ETOR	80.30	46	iPd	14	32.57	1.2	EBL	85.14	32	eP	14	55.00	0.0
GMW	71.86	326	ePd	13	44.75	-0.4				epP	16	40.20	605kmX	MAF	85.22	42	eP	14	54.80	-0.8
			epP	15	46.00	588kmX	ECRI	80.60	44	iPd	14	33.78	1.0		1.0s	196.80nm				5.7mb
ONR	72.02	325	P	13	47.41	1.4				epP	16	40.20	597kmX	PYM	85.37	43	P	14	56.15	-0.3
MCW	72.55	327	ePd	13	49.17	0.1	ECHE	80.67	48	iPd	14	34.14	0.9	LBL	85.38	43	P	14	56.67	0.1
			epP	15	50.11	584kmX				epP	16	42.10	606kmX	RAR	85.40	249	ePd	14	57.66	0.7
STW	72.69	326	P	13	50.75	0.9	ACU	80.74	49	iPc	14	34.21	0.6	ESY	85.42	32	eP	14	55.80	-0.6
TIO	72.85	54	iPd	13	53.20	1.9	REY	81.39	20	iP	14	35.10	-1.1		1.0s	12.00nm				4.5mb X
			i	15	59.00	614kmX	CPZ	81.50	36	eP	14	37.80	0.7	EDU	85.46	31	eP	14	56.10	-0.4
PGC	72.86	327	ePd	13	51.00	0.2		1.0s	112.00nm				5.3mb	WIN	85.50	112	iPc	14	56.20	-1.5
	0.6s	106.00nm				5.5mb	SPA	81.59	180	iPd	14	37.60	0.1		0.8s	84.00nm				5.5mb
			pP	15	54.50	599kmX		0.6s	459.35nm				6.2mb	Z	18s	4.06um				5.9Msz
AVE	73.60	52	iP	13	56.50	1.2	ECB	81.74	34	iPd	14	37.80	-0.5			e		17	01.80	582kmX
			i	16	03.00	616kmX		0.8s	379.00nm				6.0mb	AGO	85.54	42	P	14	56.75	-0.5
RUV	74.29	257	iPc	14	00.70	1.3	BOH	81.81	44	P	14	39.97	1.0	HYF	85.58	41	eP	14	56.70	-0.6
			pP	16	03.00	588kmX	ELYF	81.84	44	P	14	39.44	0.4	COLF	85.77	43	P	14	58.29	0.0
VAH	74.52	257	iPc	14	02.20	1.5	ECP	81.89	34	iPd	14	38.40	-0.6	EDR	85.84	31	eP	14	57.70	-0.7
			pP	16	04.00	584kmX		0.7s	267.00nm				5.9mb		1.3s	17.00nm				4.6mb X
TPT	74.53	257	iPc	14	02.20	1.5	ISSF	81.93	44	P	14	40.62	1.0	PLDF	85.85	43	P	14	58.47	-0.3
			pP	16	04.00	584kmX	MADF	81.95	44	P	14	40.05	0.4	AVF	85.90	42	eP	14	57.80	-1.1
PMO	74.80	257	iPc	14	03.40	1.2	EGRA	81.99	45	iPc	14	43.42	3.7X		0.8s	140.25nm				5.7mb
			pP	16	05.00	582kmX				epP	16	50.00	595kmX	TUH	85.94	123	iPc	14	49.00	-10.4X
SNA	75.11	161	iPd	14	02.50	-0.5	LHE	82.01	44	P	14	41.01	1.0		0.6s	21.00nm				
	0.7s	108.00nm				5.4mb	ATE	82.02	44	P	14	40.58	0.7			e		16	57.00	595kmX
RSA	75.41	51	iP	14	07.00	1.7	EROQ	82.07	47	iPc	14	41.43	1.2	CER	86.05	123	iPc	14	59.00	-1.0
IFR	75.46	52	iP	14	08.50	2.6				epP	16	46.80	587kmX		0.7s	55.00nm				5.4mb
TSY	75.48	50	iP	14	08.50	2.9	ESCF	82.10	44	P	14	41.09	0.7			e		17	05.00	583kmX
SFS	75.71	49	iP	14	10.00	3.2X	EBR	82.13	47	iP	14	42.00	1.5	SSF	86.08	41	eP	14	58.50	-1.2
EVAL	75.73	48	iPd	14	07.92	0.9				i	16	51.00	609kmX		1.0s	150.80nm				5.7mb
			epP	16	10.20	584kmX				iS	24	04.00		SMF	B6.18	42	eP	14	59.30	-1.0
CNIL	75.79	49	iP	14	09.00	1.7	OGE	82.20	44	P	14	41.57	0.7		0.8s	192.90nm				5.9mb
TVO	75.87	254	iPc	14	09.40	1.2	ETA	82.20	34	eP	14	40.30	-0.3	SSB	86.27	43	P	15	00.84	0.1
			pP	16	12.00	585kmX	JAU	82.23	44	P	14	42.20	1.0	LBF	86.37	42	eP	14	59.90	-1.3
PLAT	75.91	50	iP	14	10.00	1.9	DLF	82.28	33	eP	14	40.60	-0.3		1.0s	85.60nm				5.4mb
CPS	75.93	50	iP	14	10.00	1.9		0.9s	240.00nm				5.7mb	LOR	86.37	41	eP	14	59.80	-1.4

06d 13h

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HVAR	94.23	47	iPc	15	37.80	0.3	CSS	106.93	56	ePKP	20	40.50	-0.5		0.6s	60.00nm							
PTJ	94.24	44	iPd	15	37.60	0.0	OBN	107.23	35	ePKP	20	31.00	-9.9X	WARB	141.31	207	ePKP	21	39.00	-7.4X			
ZAG	94.25	44	eP	15	37.50	0.0				e	20	39.00			0.2s	16.00nm							
IMA	94.52	336	ePd	15	38.00	-0.5				i	21	10.00		MTMJ	141.38	321	PKP	21	39.90	-6.4X			
	1.2s	80.30nm				5.8mb				e	23	50.00		WB2	142.00	222	iPKPd	21	42.00	-5.7X			
		e		17	44.80	579kmX				i	29	34.00			1.0s	144.90nm							
		PKKP		32	34.00					e	33	16.00				iPP	24	28.60					
SVW	94.52	331	eP	15	36.90	-1.6				i	35	30.00		IIDJ	142.00	319	PKP	21	42.30	-5.1X			
		e		17	46.70	596kmX				i	39	36.00		TSRJ	143.18	321	PKP	21	45.80	-3.5X			
NSS	94.77	26	eP	15	26.65	-12.8X				i	46	44.00		MEEK	143.75	195	iPKPd	21	48.00	-2.6X			
VKA	94.79	42	iPd	15	39.40	-0.5	SAGI	108.14	61	ePKP	20	43.80	0.3	GUA	143.95	281	e(PKP)	21	48.70	-2.4X			
	2 5s	560.00nm				6.3mb	DSI	108.74	60	ePKP	20	44.10	-0.4		0.7s	679.45nm							
		i		15	40.50		HRI	108.99	58	ePKP	20	45.20	0.1			e	24	03.80					
		ipP		17	47.00	583kmX	DZM	115.63	241	iPKPc	20	58.00	-0.1	GUMO	143.99	281	e(PKP)	21	44.10	-7.1X			
HFS	94.88	30	eP	15	39.20	-0.8	RIV	121.64	221	ePKP	21	08.80	-0.2	PJG	143.99	281	e(PKP)	21	48.80	-2.4X			
	1.3s	83.80nm				5.8mb	CNB	121.85	219	ePKP	21	08.90	-0.6	WKYJ	144.27	320	PKP	21	50.50	-0.8			
LCI	94.99	50	P	15	42.40	1.5				e	23	50.00		POO	144.91	70	iPKPd	21	48.40	-4.4X			
TTA	94.99	333	eP	15	38.70	-1.9	CAN	122.08	219	iPKP	21	09.00	-0.9		1.0s	290.00nm							
	1 3s	17.05nm				5.1mb				iPP	23	50.10		YONJ	144.95	323	PKP	21	51.70	-0.6			
		epP		17	47.58	590kmX	TOO	122.62	215	iPKPc	21	10.10	-0.8	TKSJ	145.40	321	PKP	21	52.70	-0.4			
SLR	95.06	117	iPd	15	40.60	-1.2		0.5s	35.00nm					SHK	145.87	323	iPKPd	21	53.80	-0.1			
	0.6s	76.00nm				6.1mb				i	23	52.00			1.0s	600.00nm							
Z	20s	4.00um				5.9Msz	BWA	123.02	219	iPKP	21	10.70	-1.1	SHNJ	147.07	324	PKP	21	55.20	-0.6			
		e		17	47.70	580kmX				iPP	23	51.50		BJI	147.83	349	ePKPd	21	56.68	-0.1			
KSP	95.10	39	iP	15	41.50	0 2	ARMA	123.37	225	iPKPd	21	12.30	-0.4				ePKPbc	22	00.07				
	0.9s	73.00nm				5.9mb		0.7s	41.00nm								ipP'df	24	10.44				
		e		17	48.50	579kmX				e	23	27.50					e	25	06.39				
		e		25	20.00		BRS	124.26	229	iPKPc	21	14.00	-0.4				eSKP	25	29.23				
VRAC	95.10	41	iPd	15	41.70	0.5		1.0s	9.00nm					KUMJ	148.36	322	ePKP	21	57.50	-0.4			
	1.4s	427.40nm				6.5mb				e	23	55.00		NANU	148.40	192	iPKPd	21	57.90	-0.3			
ZST	95.30	42	iPd	15	41.80	-0.4	YAK	124.34	348	iPKPd	21	12.00	-1.3		0.6s	147.00nm							
	0.6s	68.00nm				6.1mb		1.0s	260.00nm					KNA	148.67	220	ePKP	21	58.00	-0.7			
		e		17	49.90	586kmX				e	22	56.00		GBA	149.09	78	PKPd	21	59.00	-0.4			
		e		19	38.50					i	23	30.00			0.8s	999.90nm							
		e		21	27.80					i	24	48.00		KAGJ	149.25	320	PKP	22	04.10	4.8X			
		e		40	41.00					e	25	50.00		HYB	149.52	70	ePKP	21	59.00	-1.1			
SRO	96.07	43	eP	15	45.40	-0.3				e	27	21.00			1.0s	450.00nm							
		e		17	52.40	579kmX				i	29	18.00				e	22	11.00					
		e		40	42.30		MAIO	127.61	50	iPKPd	21	20.00	-0.6	GKN	150.25	46	PKP	22	00.80	-0.3			
UZD	96.13	44	eP	15	45.20	-0.8		0.7s	23.19nm					DMN	150.82	46	PKP	22	01.60	-0.5			
SDN	96.34	325	eP	15	46.30	-0.4				i	23	36.00		KKN	150.83	46	PKP	22	01.40	-0.6			
	1 0s	117.70nm				6.1mb	ADE	128.22	212	iPKPd	21	21.20	-0.6	PKI	151.06	46	PKP	22	01.60	-0.9			
BUL	96.48	111	iPd	15	48.10	-0.2	STK	128.92	217	iPKP	21	22.20	-0.9	GUN	151.18	45	PKP	22	02.20	-0.5			
		i		17	55.70	582kmX				iPP	23	38.60		LZH	152.18	8	iPKPd	22	04.03	0.3			
BFT	96.62	117	eP	15	49.00	0.0				iPKS	24	45.30			2.0s	587.00nm							
	0.6s	19.00nm				5.6mb				iSKS	27	34.40			Z 20s	0.30um				5.1Msz			
		e		17	33.00	455kmX	QLP	130.85	224	iPKPd	21	27.10	0.2				iPKPbc	22	11.21				
UPP	96.81	31	iP	15	49.40	0.7	KUSJ	133.19	324	ePKP	21	17.80	-13.0X				iPKPab	22	22.24				
OHR	97.22	50	iP	15	51.70	0.6	CTAO	133.26	232	ePKPd	21	31.06	-0.6				epP'df	24	17.84				
	1.2s	66.00nm				5.8mb				epPKP	23	44.37		LSA	153.33	35	iPKPd	22	06.61	0.8			
		i		16	08.70	59kmX	CTAO	133.26	232	ePKP	21	14.58	-17.1X				iPKPbc	22	14.23				
		i		17	57.80		ASAJ	133.74	326	ePKP	21	23.90	-8.0X				ePKPab	22	28.46				
		iS		25	29.70		HOOJ	134.45	324	ePKP	21	23.10	-10.2X				epP'df	24	20.70				
MAW	97.46	164	iPc	15	52.00	0.3	IRK	136.20	4	iPKPd	-21	35.00	-1.3				e	24	28.31				
	1.0s	29.17nm				5.6mb		4.0s	1.00nm								epP'ab	24	40.56				
SPC	97.47	41	eP	15	53.70	1.4				i	21	38.00		SSE	154.58	334	iPKPd	22	06.47	-0.3			
		e		40	37.40					e	21	54.00			Z 20s	0.50um				5.3Msz			
SKO	97.77	49	iP	15	53.40	-0.2				e	23	50.50					iPKPbc	22	15.41				
	1.1s	44.00nm				5.7mb				e	24	12.20					iPKPab	22	30.31				
		i		17	04.80	298kmX				e	24	18.00					epP'df	24	20.55				
		i		22	49.00					e	25	11.00					e	24	28.50				
		iS		25	33.00					e	27	13.00					epP'ab	24	42.07				
		i		26	01.50					e	41	33.00					PP	26	06.00				
		i		27	57.00		HIA	138.26	349	ePKPd	21	39.23	-1.0				eSS	45	36.00				
VAY	98.57	49	iP	15	57.00	-0.1				epPKP	23	52.32		ENH	158.29	358	iPKPd	22	10.90	-0.6			
		i		18	06.00	592kmX				eSKP	24	18.81					ePKPab	22	46.98				
KKB	98.98	49	iP	16	00.00	1.0				isP'df	24	32.38					epP'df	24	25.64				
CIR	99.02	113	iPd	16	17.00	17.4X	ASPA	139.55	217	iPKPd	21	33.20	-10.2X				e	24	52.46				
		i		19	08.80			1.8s	3.40nm					KMI	162.55	18	iPKPd	22	16.15	-0.2			
		iPP		20	20.50					i	21	42.70					iPKPab	23	06.48				
VTS	99.12	48	iP	16	00.00	0.2				iPP	24	22.10					epP'df	24	29.91				
MMB	99.45	49	iP	16	02.00	0.9				ePKS	25	17.70					epP'ab	25	11.62				
MTD	99.92	109	iPd	16	08.00	4.2X				iSKS	27	32.00		DAV	163.04	267	ePKP	22	16.80	0.0			
		i		18	17.10	592kmX				e	30	33.70		LEM	164.78	177	ePKPd	22	19.50	0.9			
RZN	100.20	49	iPdiff	16	05.00	0.3	MDJ	139.61	337	ePKP	21	40.82	-2.0		1.5s	166.67nm							
NUR	100.34	30	iPdiff	16	04.50	-0.1				epP'df	23	55.23		HKC	165.21	339	ePKP	22	18.00	-0.5			
	0.6s	10.40nm				5.5mb				eSKP	24	22.38		BCP	165.80	305	ePKP	22	18.80	-0.6			
PVL	100.70	48	iPdiff	16	07.00	0.4				esP'df	24	35.29		BAG	165.83	305	ePKP-	22	18.80	-0.6			
KDZ	100.72	49	ePdiff	16	08.00	1.2	KAKJ	140.09	319	PKP	21	36.60	-7.3X	CHG	166.14	41	ePKPd	22	19.20	-0.2			
SDF	100.80	23	iPdiff	16	07.00	0.5	NIIJ	140.22	321	PKP	21	36.00	-8.1X		0.9s	67.02nm							
KEV	100.84	21	ePdiff	16	05.00	-1.6	WMQ	140.38	24	ePKP	21	43.20	-1.1	CHTO	166.14	41	iPKPd	22	18.75	-0.6			
KAF	101.08	28	iPdiff	16	10.60	2.7X				ipP'df	23	57.95		OCP	166.26	298	ePKP	22	29.00	9.5X			
	0.3s	1.40nm				5.0mb				e	24	39.00		BDT	167.28	46	ePKP	22	13.10	-7.1X			
MLR	101.19	45	ePdiff	16	09.00	0.1	CHJJ	140.95	319	PKP	21	39.30	-6.2X		0.8s	72.70nm							
		e		19	54.00		MAJO	141.15	321	ePKP	21	38.63	-7.2X	KHT	168.43	56	iPKPd	22	20.30	-0.7			
ADK	106.00	322	ePdiff	16	26.45	-3 5X				e	23	53.72		LOE	168.93	36	iPKPd	22	21.00	-0.3			
	1 2s	53.03nm				6.3mb	MAT	141.15	321	ePKP	21	38.00	-7.8X	NST	169.12	48	ePKP	22	21.80	0.4			

06d 13h

```
QIZ   169.43 353 iPKPd 22 22.69   1.2
                 ePKPab23 37.51
                 epP'df24 38.10
                 e      25 42.33
TSM   169.82 247 ePKP  22 22.50   0.6
PCT   170.70  48 ePKP  22 22.70   0.4
IPM   171.61 117 ePKPd 22 22.00  -0.8
                 e      23 47.70
KGM   171.76 141 ePKPc 22 22.50  -0.3
KKM   171.99 253 ePKP  22 21.00  -2.0
     1.4s   221.40nm
     S.D. = 1.0  on 555 of 603 obs.
-----------------------------------
%  MAY  06, 1993  13h 39m 30.71± 0.57s
   27.973 S ± 5.2km   26.778 E ± 6.8km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA          (584)
      ML 2.7 (PRE).

SEK     0.83 115 eP    39 47.20  -0.1
                 S     39 56.50
BFS     1.07   0 eP    39 51.00  -0.4
                 S     40 06.70
PRY     1.21  31 iPd   39 54.00   0.2
                 S     40 12.00
BLF     1.24 205 iPc   39 54.50   0.1
                 S     40 13.00
SWZ     1.51 301 eP    39 58.80   0.2
                 S     40 17.90
FRS     2.18 215 eP    40 08.00  -0.2
                 S     40 32.50
SLR     2.60  31 eP    40 14.50   0.2
     S.D. = 0.3  on   7 of   7 obs.
-----------------------------------
%  MAY  06, 1993  13h 44m 12.54± 0.67s
   39.676 N ± 6.6km   27.666 E ± 7.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 3.0 (ISK).

EDC     0.69  13 iPg   44 26.00  -0.1
                 iSg   44 37.00
BNT     0.71  16 iPg   44 25.10  -1.4
KCT     0.78  43 iPg   44 27.30  -0.5
                 eSg   44 38.60
EZN     1.04 279 ePn   44 32.50   0.3
IZM     1.31 194 iPn   44 36.50  -0.4
CTT     1.58  21 iPn   44 41.60   1.0
YLV     1.58  55 ePn   44 41.60   0.8
HRT     1.91  53 ePn   44 46.00   0.5
EYL     2.11  64 ePn   44 48.00  -0.4
DMK     2.14   2 ePn   44 49.00   0.2
     S.D. = 0.8  on  10 of  10 obs.
-----------------------------------
   MAY  06, 1993  13h 53m 56.99± 0.87s
    7.374 N ± 4.1km  126.686 E ± 6.9km
   DEPTH =  78.1 ±  8.2 km
   4.7mb ( 19 obs.)
 MINDANAO, PHILIPPINE ISLANDS      (259)

DAV     1.14 256 iPd   54 17.60  -0.3
CGP     2.25 299 iPc   54 32.50  -0.3
                 iS    55 04.00
CTB     2.47 266 ePc   54 37.00   1.1
                 eS    55 28.00
MAP     3.97 318 iPd   54 58.00   1.3
                 eS    55 46.00
PLP     4.13 336 ePc   54 57.80  -1.2
                 iS    55 26.00
PGP     8.30 318 eP    56 04.00   7.1X
MTN    20.57 168 eP    58 30.30  -1.5
KNA    23.07 175 eP    58 56.50   0.0
IPM    25.67 265 eP    59 24.00   2.5
PCT    25.83 288 eP    59 26.20   3.3X
LOE    26.30 295 eP    59 32.00   4.7X
NST    27.27 290 eP    59 38.50   2.4
TKSJ   27.34  13 P     59 36.10  -0.4
WKYJ   27.95  16 P     59 41.70  -0.5
WB2    28.17 165 eP    59 42.10  -2.1
       0.3s     6.50nm          4.7mb
YONJ   28.37  12 P     59 45.40  -0.5
KMI    28.89 310 Pd    59 51.50   0.6
       1.6s    50.00nm          4.9mb
                 pP    00 02.50  41kmX
                 sP    00 05.00
CHG    29.26 296 eP    00 05.60  11.5X
TSRJ   29.30  16 P     59 53.30  -0.9
CHJJ   30.68  20 P     00 04.30  -2.1
MTMJ   30.80  18 P     00 05.40  -2.1
MAT    30.88  18 eP    00 05.00  -3.2X
       0.8s     8.96nm          4.5mb
ASPA   31.65 167 iPd   00 15.00   0.0
       0.3s     8.60nm          5.0mb
                 iPcP  03 05.30
                 eS    05 14.00
WARB   33.36 180 eP    00 29.00  -0.8
BJI    33.86 345 eP    00 33.50  -0.6
OFUJ   34.33  21 P     00 40.00   1.9
LZH    35.40 327 eP    00 47.50   0.0
       1.0s     17.00nm          4.9mb
     Z  26s     0.87um           4.4MszX
                 sP    01 01.00
MRRJ   37.15  18 P     01 02.60   0.7
MRWA   37.81 195 eP    01 07.00  -0.6
HOOJ   37.83  20 P     01 09.60   2.0
KUSJ   38.95  21 eP    01 18.20   1.2
BAL    38.96 194 eP    01 17.00  -0.2
ASAJ   39.17  18 eP    01 19.80   1.0
KLB    39.67 192 iPd   01 24.00   0.9
MUN    40.39 194 eP    01 29.00   0.0
NWAO   41.07 192 iPd   01 35.00   0.4
STK    41.55 161 eP    01 37.80  -0.7
       0.6s     4.80nm          4.5mb
BRS    42.80 145 iPd   01 38.50 -10.3X
                 e     02 06.50
ADE    43.62 166 e(P)  01 56.00   0.7
GUN    43.63 303 P     01 55.00  -1.0
       0.4s    11.00nm          5.0mb
PKI    43.91 302 P     01 57.40  -0.9
KKN    44.09 303 P     01 58.60  -1.0
DMN    44.18 302 P     01 59.40  -1.0
ARMA   44.55 149 eP    02 03.40   0.3
GKN    44.70 303 P     02 03.40  -1.0
CNB    47.54 155 eP    02 27.40   0.8
       0.5s     7.00nm          4.8mb
HYB    47.94 287 eP    02 29.60  -0.3
TOO    48.04 160 eP    02 31.00   0.6
       0.8s    12.00nm          4.9mb
GBA    48.75 282 Pd    02 37.00   0.9
YAK    54.58   2 iPd   03 18.00  -1.2
       1.0s    40.00nm          5.4mb
QUE    60.23 301 eP    03 58.30  -1.5
MAIO   67.31 306 eP    04 45.00  -1.0
SVW    77.64  29 eP    05 47.31   1.1
       1.0s    14.64nm          4.9mb
TTA    77.70  27 eP    05 47.30   0.7
KDC    78.90  33 eP    05 53.90   0.8
IMA    79.09  24 eP    05 55.30   1.0
       0.7s     6.00nm          4.6mb
SLKM   80.22  30 ePd   06 00.08  -0.2
                 e     06 42.01
PWA    80.44  29 eP    06 01.40   0.1
       1.1s    42.90nm          5.3mb
FBA    81.47  25 iPd   06 06.34  -0.4
       0.6s     4.22nm          4.5mb
KLU    82.33  29 eP    06 12.28   0.9
INK    86.81  22 eP    06 35.00   1.4
       0.5s     1.00nm          4.2mb
KAF    88.37 332 eP    06 40.00  -1.2
MBC    88.43  13 eP    06 42.00   0.7
       1.0s     3.00nm          4.4mb
NUR    89.52 331 eP    06 42.00  -4.6X
N82    95.52 334 P     07 12.80  -1.6
       0.7s     1.10nm          4.4mb
YKA    96.22  24 eP    07 17.10  -0.4
       0.8s     2.60nm          4.8mb
GEC2   99.22 322 P     07 31.40   0.0
       0.6s     1.08nm          4.6mb
LTX   119.37  50 ePKP  12 39.19  -0.5
MIAR  123.56  40 ePKP  12 48.02   0.6
KIC   129.66 285 PKP   12 56.80  -3.0X
ZOBO  163.03 123 PKP   13 54.00   1.3
     S.D. = 1.1  on  63 of  71 obs.
-----------------------------------
*  MAY  06, 1993  15h 02m 20.66± 0.99s
   23.805 S ±10.3km   67.255 W ±10.8km
   DEPTH =  33.0km  (normal)
 CHILE-ARGENTINA BORDER REGION     (127)

SLA     1.85 120 ePd   02 50.80   0.0
YJA     2.29  45 ePd   03 01.80   4.4X
ANT     2.90 271 iP+   03 05.50   0.0
                 iS    03 40.50
CNCB    6.99 354 P     04 04.60   0.7
LPB     7.28 354 P     04 08.00   0.2
ZOBO    7.54 354 P     04 10.80  -0.9
SIV     9.71  38 P     04 48.00   6.8X
     S.D. = 0.8  on   5 of   7 obs.
-----------------------------------
?  MAY  06, 1993  15h 11m 44.71± 1.08s
   39.090 N ± 8.1km   27.596 E ±13.1km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.8 (ISK).

IZM     0.74 201 iPg   11 59.20   0.0
                 iSg   12 11.20
EZN     1.23 307 iPn   12 07.60   0.1
EDC     1.27   9 ePn   12 08.00  -0.3
KCT     1.30  27 ePn   12 09.00   0.3
     S.D. = 0.4  on   4 of   4 obs.
-----------------------------------
*  MAY  06, 1993  15h 25m 41.80± 1.43s
    8.445 N ±10.2km  123.276 E ±20.6km
   DEPTH =  72.6 ± 15.9 km
   4.7mb (  3 obs.)
 MINDANAO, PHILIPPINE ISLANDS      (259)

CGP     1.40  89 iPc   26 04.50  -1.4
                 iS    26 26.00
CTB     1.54 143 ePc   26 09.00   1.2
                 iS    26 28.00
MAP     1.99  20 ePc   26 15.00   1.0
                 iS    26 43.00
PLP     3.18  32 ePc   26 30.50   0.0
PGP     5.52 336 eP    27 02.50  -0.8
ASPA   33.56 162 iPc   32 15.40  -1.7
       0.6s     5.30nm          4.6mb
WARB   34.58 175 eP    32 25.50  -0.2
       0.7s    28.00nm          5.3mb
STK    43.75 157 iPd   33 42.90   1.1
       0.7s     3.10nm          4.2mb
GBA    45.23 281 P     34 06.00  12.1X
MBC    88.12  12 eP    38 26.00   0.8
CLL    95.83 324 eP    38 53.00  -8.4X
     S.D. = 1.4  on   9 of  11 obs.
-----------------------------------
*  MAY  06, 1993  15h 31m 47.71± 0.94s
   67.004 N ± 8.3km   21.190 E ±11.5km
   DEPTH =  10.0km  (geophysicist)
 SWEDEN                            (536)
      MD 2.9 (BER).

MOR7    2.67 257 eP    32 32.04   0.5
TRO     2.77 343 eP    32 33.19   0.3
                 eSg   33 10.39
ARA0    3.01  30 ePn   32 35.10  -1.1
                 eLg   33 15.16
LOF     3.14 295 eP    32 39.10   1.0
FIA0    5.97 157 ePn   33 19.98   1.8
                 eSn   34 28.27
NRA0    7.59 219 ePn   33 39.72  -1.2
                 eSn   35 06.93
HFS     7.66 209 eP    33 40.60  -1.3
       0.2s     0.90nm          4.7mb
     S.D. = 1.5  on   7 of   7 obs.
-----------------------------------
   MAY  06, 1993  15h 50m 18.98± 0.55s
   42.829 N ± 5.0km   18.663 E ± 4.5km
   DEPTH =  10.0km  (geophysicist)
 NORTHWESTERN BALKAN REGION        (383)
      ML 2.4 (TTG).

BRY     0.11 309 iPgc  50 23.05   1.0
                 iSg   50 26.27
NKY     0.25  94 iPgd  50 24.90   0.6
                 iSg   50 29.70
HCY     0.40 198 iPgd  50 27.30   0.1
                 iSg   50 34.08
BDV     0.56 167 iPgd  50 30.15  -0.2
                 iSg   50 39.15
TTG     0.59 132 iPgc  50 30.85  -0.1
                 iSg   50 40.40
PLE     0.73  47 iPgd  50 32.93  -0.5
                 iSg   50 44.09
IVA     0.91  87 iPgd  50 36.32  -0.1
                 iSg   50 50.14
ULC     0.97 153 iPgc  50 37.52   0.1
                 iSg   50 52.33
PVY     0.99 103 iPgc  50 37.87   0.0
                 iSg   50 53.09
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HVAR     1.66 283 ePn    50 47.40   -0.9
                  iSg    51 10.30
      S.D. = 0.6   on  10 of  10 obs.
-------------------------------------------
&  MAY  06, 1993   16h 03m 55.72s
   34.340 N          116.468 W
   DEPTH =   0.8km
 SOUTHERN CALIFORNIA                 ( 43)
      <PAS-P>. ML 2.8 (PAS).

PEC      0.73 232 iPd    04 09.45   -0.8
                  eS     04 19.60
GSC      1.00 344 eP     04 13.54   -2.0
                  eS     04 29.71
SSK      1.02 263 eP     04 14.69   -1.4
                  eS     04 28.70
PLM      1.04 199 ePd    04 15.23   -1.1
                  eS     04 28.91
GLA      1.88 133 ePn    04 27.96   -1.4
ISA      2.11 309 ePn    04 32.45   -0.3
                  ePg    04 35.27
ABL      2.33 283 (P)    04 35.87   -0.2
                  eS     05 06.86
TPNV     2.61   4 (P)    04 41.31    1.4
BCH      3.09 287 (P)    04 46.23   -0.5
                  eS     05 30.39
MSU      5.42  38 (P)    05 17.80   -2.1
      10 obs. ossocioted
-------------------------------------------
%  MAY  06, 1993   16h 08m 14.25± 1.04s
   26.850 S ± 9.8km    26.763 E ± 7.5km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA            (584)
      ML 2.5 (PRE).

BFS      0.05 158 eP     08 15.50   -0.3
                  S      08 16.00
PRY      0.64  97 eP     08 26.00   -1.1
                  S      08 32.50
KSR      0.99   7 eP     08 41.00    7.4X
                  S      08 51.00
SWZ      1.32 255 iPd    08 38.50   -0.8
                  S      08 54.50
SEK      1.65 153 iPc    08 44.80    0.6
                  S      09 04.00
SLR      1.76  51 iPc    08 46.50    0.8
                  S      09 10.00
BLF      2.31 193 eP     08 54.50    0.8
                  S      09 23.00
      S.D. = 1.1   on   6 of   7 obs.
-------------------------------------------
%  MAY  06, 1993   16h 13m 38.24± 0.94s
   39.029 N ± 7.1km    27.078 E ±12.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      ML 2.8 (ISK).

IZM      0.65 167 iPg    13 51.20    0.0
                  iSg    14 01.20
EZN      0.99 324 iPg    13 57.00    0.1
                  iSg    14 09.00
EDC      1.45  24 ePn    14 04.00   -0.5
BNT      1.48  26 ePn    14 05.00    0.1
KCT      1.57  39 ePn    14 06.50    0.3
      S.D. = 0.4   on   5 of   5 obs.
-------------------------------------------
   MAY  06, 1993   16h 22m 03.44± 0.46s
   45.438 N ± 8.6km   151.521 E ± 7.8km
   DEPTH =  33.0km  (normal)
   4.9mb ( 40 obs.)  4.1Msz (  1 obs.)
 KURIL ISLANDS                       (221)

MAT     13.40 233 eP     25 10.00   -3.7X
                  eS     31 30.00
YAK     20.85 331 eP     26 43.00   -1.5
        1.5s     60.00nm          4.8mb
                  eS     30 37.00
BJI     26.37 271 eP     27 39.50    1.3
        1 0s     33.00nm          4.9mb
      Z  20s      0.54um          4.1Msz
                  eS     32 26.00
IMA     35.52  35 iPd    28 58.50   -0.4
LZH     36.83 272 iPc    29 11.00    0.7
        1.4s     66.00nm          5.3mb
      Z  15s      0.24um          4.1MszX
                  pP     29 24.00   49kmX
                  sP     29 29.00
                  PP     32 10.50
FBA     37.88  37 eP     29 19.50    0.9
        0.8s      1.90nm          4.0mb
INK     43.35  32 eP     30 05.50    1.9
        1.0s      4.00nm          4.1mb
KMI     43.91 259 eP     30 09.50    0.5
        1.5s     50.00nm          5.1mb
MBC     46.21  19 eP     30 26.50    0.1
CHG     50.73 256 eP     31 03.50    1.3
YKA     52.64  36 eP     31 15.10   -0.9
        0.9s      2.90nm          4.2mb
GUN     54.01 275 P      31 26.60   -0.4
        0.8s     32.00nm          5.4mb
KKN     54.50 275 P      31 30.40   -0.1
        0.6s     20.00nm          5.3mb
PKI     54.55 275 P      31 30.20   -0.8
DMN     54.74 275 P      31 31.60   -0.7
GKN     54.82 276 P      31 32.40   -0.4
        0.4s     13.00nm          5.3mb
DAG     57.91 357 eP     31 52.10   -1.9
        0.8s      6.72nm          4.8mb
KEV     58.21 340 eP     31 55.00   -1.1
KAF     64.16 335 iP     32 34.80   -1.7
        0.5s      3.70nm          4.7mb
NUR     65.92 334 iP     32 46.20   -1.5
        0.3s      4.80nm          5.1mb
MAIO    66.52 298 eP     32 52.00   -0.1
WB2     66.92 198 eP     32 53.00   -1.5
        0.7s      3.40nm          4.6mb
                  e      33 07.00
WRA     66.92 198 P      32 53.80   -0.8
        0.7s      1.80nm          4.3mb
SRU     68.26  56 iPd    33 02.86   -0.4
UPP     68.49 337 iP     33 02.90   -1.1
NB2     69.11 341 P      33 06.80   -1.0
        0.8s      9.50nm          4.9mb
GBA     69.29 268 P      33 09.00   -0.5
HFS     69.29 339 eP     33 07.50   -1.4
        0.8s     21.60nm          5.3mb
      Z  16s     94.00um          7.1MszX
                  LR     01 02.00
OJC     75.92 330 eP     33 48.20    0.0
                  e      33 52.70
KSP     76.57 333 eP     33 51.50   -0.3
SPC     76.63 330 eP     33 53.30    0.9
CLL     77.19 335 iPc    33 54.40   -0.8
        1.1s     26.00nm          5.2mb
BRG     77.28 334 e(P)   33 55.40   -0.4
VRAC    77.79 332 eP     33 59.10    0.6
PRU     77.87 333 P      33 59.30    0.3
MOX     78.19 335 eP     34 01.20    0.4
        1.5s     14.00nm          4.8mb
ZST     78.58 331 eP     34 03.60    0.7
KHC     78.93 333 Pc     34 05.10    0.2
        1.0s     12.90nm          4.9mb
                  e      34 29.50
GEC2    79.14 333 P      34 06.30    0.2
        1.0s      3.26nm          4.3mb
GRF     79.15 335 ePc    34 06.80    0.7
        1.2s     24.00nm          5.1mb
      Z  16s      0.10um          4.2MszX
KBA     80.81 333 iPd    34 15.90    0.8
WTTA    81.19 334 iPd    34 18.10    1.0
CDF     81.44 337 eP     34 18.40    0.1
        1.3s     14.80nm          4.8mb
VBY     81.54 331 eP     34 18.60   -0.2
BSF     82.10 337 eP     34 22.50    0.7
        0.8s      4.45nm          4.6mb
SKO     82.24 325 iP     34 23.60    1.1
VAY     82.32 324 eP     34 23.40    0.5
LOR     83.40 338 eP     34 28.50    0.0
        0.8s      5.65nm          4.7mb
LBF     83.64 338 eP     34 29.90    0.2
        1.3s     13.00nm          4.9mb
SSF     83.69 339 eP     34 30.20    0.3
        0.9s      5.55nm          4.7mb
LPF     83.86 342 eP     34 30.80    0.1
        0.9s     12.80nm          5.1mb
AVF     83.98 339 eP     34 31.40    0.1
        1.1s     11.50nm          5.0mb
SMF     83.99 338 eP     34 31.40    0.0
        0.9s     10.50nm          5.0mb
LPL     84.23 336 eP     34 34.00    1.1
        1 0s     11.00nm          5.0mb
LPG     84.24 336 eP     34 34.10    1.0
        0.9s      9.00nm          4.9mb
MAF     84.71 339 eP     34 35.50    0.5
        1.0s     18.80nm          5.2mb
TCF     84.74 339 eP     34 35.30    0.1
        1.0s     11.00nm          5.0mb
LSF     84.94 340 eP     34 36.40    0.2
        0.9s     13.25nm          5.1mb
MFF     85.01 341 eP     34 36.70    0.2
        1.0s     10.00nm          5.0mb
RJF     85.83 339 eP     34 41.00    0.4
        1.0s     10.40nm          5.0mb
CAF     86.04 339 eP     34 42.60    0.8
        0.9s      8.20nm          5.0mb
LMR     86.29 335 eP     34 42.80   -0.1
        1.0s     15.60nm          5.2mb
LPO     86.49 339 eP     34 43.70   -0.2
        1.0s      6.80nm          4.8mb
      S.D. = 0.8   on  62 of  63 obs.
-------------------------------------------
%  MAY  06, 1993   16h 38m 27.29± 1.48s
   60.390 N ± 8.3km     5.050 E ±13.7km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN NORWAY                     (535)
      MD 1.6 (BER).

ASK      0.12  38 eP     38 30.22    0.0
BER      0.14  93 iPc    38 30.91    0.3
                  eS     38 33.66
EGD      0.15 144 iPc    38 30.71    0.0
                  eS     38 33.59
SUE      0.68 348 eP     38 40.78    0.0
                  eS     38 50.24
HYA      0.96  35 eP     38 45.61    0.1
                  eS     38 59.76
NRA0     3.22  81 ePn    39 18.44   -0.5
                  ePg    39 27.87
                  eLg    40 10.63
      S.D. = 0.3   on   6 of   6 obs.
-------------------------------------------
&  MAY  06, 1993   16h 53m 08.00s
   40.533 N          124.720 W
   DEPTH =  29.0km
 NEAR COAST OF NORTHERN CALIF.       ( 35)
      <BRK>. ML 3.6 (BRK).

KCTM     0.30 101 P      53 15.61    0.2
EKR      0.47  70 iP     53 17.88    0.0
                  eS     53 24.69
KMPM     0.47 104 iPc    53 17.60   -0.4
                  eS     53 24.28
FOX      0.55  91 iP     53 19.23    0.0
ARC      0.60  55 iP     53 19.65   -0.3
                  iS     53 27.73
FHC      0.62  64 iP     53 20.22   -0.1
KHMM     0.83  65 P      53 23.38   -0.3
KGMM     0.83  74 P      53 23.40   -0.3
KPPM     1.05 100 P      53 26.44   -0.6
KKPM     1.13 110 P      53 26.28   -1.7
KRMM     1.16  32 P      53 28.28   -0.2
KIPM     1.19 127 P      53 27.93   -1.0
KBNM     1.33 118 P      53 30.72   -0.2
KFPM     1.34 132 P      53 29.34   -1.5
KSXM     1.44  26 P      53 32.11   -0.4
LGPM     1.49  75 iPc    53 32.43   -0.7
GBDM     1.54 135 P      53 31.90   -1.9
GNAM     1.58 148 P      53 32.16   -2.1
WDC      1.66  88 eP     53 34.64   -0.9
GROM     1.69 111 P      53 35.52   -0.5
LMPM     2.16  63 P      53 43.88    1.0
LBFM     2.29  68 eP     53 44.81    0.0
MIN      2.38  94 eP     53 44.20   -1.9
LSLM     2.43  91 P      53 45.88   -0.8
LHCM     2.45  83 P      53 47.13    0.1
LRDM     2.49  91 P      53 47.20   -0.3
OSUM     2.54 119 P      53 46.27   -1.9
LHKM     2.63  91 P      53 49.31   -0.3
ORV      2.66 111 (P)    53 46.79   -3.0
AARM     3.11 113 P      53 56.22    0.0
      30 obs. ossocioted
-------------------------------------------
*  MAY  06, 1993   17h 23m 13.47± 0.48s
   34.335 N ± 9.7km   139.192 E ± 8.7km
   DEPTH =  33.0km  (normal)
   4.4mb (  9 obs.)
 NEAR S. COAST OF HONSHU, JAPAN      (230)

MAT      2.34 340 eP     23 51.00    0.5
                  eS     24 24.00
BJI     19.18 294 eP     27 38.00    1.0
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06d 17h

YAK	28.35	351	eP	29	05.00	-1.1
WB2	54.17	186	eP	32	33.10	-4.8X
	0.7s		2.40nm			4.3mb
WRA	54.17	186	P	32	37.00	-0.9
	0.6s		1.10nm			4.1mb
INK	57.61	26	eP	33	02.50	0.4
GBA	59.20	266	P	33	14.00	0.1
MBC	59.62	16	eP	33	15.50	-0.5
	1.0s		3.00nm			4.4mb
YKA	67.04	29	eP	34	03.30	-1.8
	0.8s		2.10nm			4.3mb
KAF	69.87	333	eP	34	21.50	-1.1
NEW	73.33	43	eP	34	44.00	0.4
	1.1s		9.88nm			4.7mb
HFS	75.79	335	eP	34	56.50	-0.9
	0.5s		2.20nm			4.4mb
NB2	75.96	337	P	34	58.00	-0.5
	0.9s		5.80nm			4.6mb
FCC	77.21	25	eP	35	09.50	4.1X
LCCM	77.66	43	eP	35	08.90	0.5
BW06	80.85	44	eP	35	25.70	-0.1
	1.3s		3.55nm			4.2mb
MSU	81.91	49	eP	35	32.22	0.8
SRU	B2.56	47	eP	35	35.00	0.3
PV09	83.79	47	ePc	35	41.90	0.7
KHC	83.87	328	eP	35	41.40	0.4
GEC2	84.02	327	P	35	41.70	-0.2
	0.9s		2.62nm			4.4mb
			e	35	51.80	
GRF	84.48	329	eP	35	44.80	0.8
LTX	93.21	51	eP	36	26.46	0.4
LPB	149.79	61	ePKP	43	01.00	3.4X
CNCB	150.05	61	PKP	42	59.00	0.8
	S.D. = 0.8		on 22 of 25 obs.			

MAY 06, 1993 17h 30m 07.52± 0.69s
27.076 S ± 9.5km 26.551 E ± 6.9km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 3.9 (PRE).

BFS	0.27	50	iPd	30	14.40	1.3
			S	30	14.80	
PRY	0.84	80	iPc	30	24.00	-0.3
			S	30	31.90	
SWZ	1.10	264	eP	30	36.80	8.1X
			S	30	52.60	
KSR	1.25	14	iPd	30	31.00	-0.3
			S	30	44.00	
SLR	2.05	50	iPd	30	44.00	0.8
			S	31	06.10	
BLF	2.05	189	iPd	30	51.00	7.8X
			S	31	20.00	
FRS	2.88	202	iPd	31	02.10	7.3X
			S	31	37.10	
BFT	3.42	67	eP	31	03.00	0.1
			S	31	41.50	
GRM	6.22	180	e(P)	31	31.50	-10.7X
			S	33	01.30	
POF	6.26	247	e(P)	31	37.50	-5.3X
	0.6s		76.67nm			5.7mb X
			S	32	54.00	
POF	6.26	247	e(P)	31	42.50	-0.3
			S	32	54.00	
SUR	7.27	222	eP	32	11.00	13.8X
			S	33	32.50	
CIR	7.59	38	iPnc	31	59.60	-1.9
			eSn	33	23.50	
			iSg	34	00.00	
CER	8.87	223	eP	32	22.80	3.5X
			S	33	57.50	
TUH	8.91	224	e(P)	32	20.00	0.1
			S	33	55.00	
WIN	9.69	296	eP	32	31.50	0.7
			S	34	13.50	
MTD	11.26	25	iPnd	32	51.90	-0.4
			iSn	34	48.00	
			iSg	35	52.60	
	S.D. = 1.0		on 10 of 17 obs.			

MAY 06, 1993 17h 58m 53.55± 0.35s
43.574 N ± 5.0km 16.959 E ± 4.1km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 3.2 (TTG), 3.0 (VIE). MD 3.3 (TRI).

HVAR	0.54	223	iPgd	59	03.90	-0.6
			iSg	59	14.80	
BRY	1.34	120	iPgd	59	16.28	-2.0
			iSg	59	36.12	
HCY	1.59	134	iPgd	59	20.81	-1.0
			iSg	59	43.53	
NKY	1.67	116	iPgd	59	23.23	0.1
			iSg	59	47.25	
PLE	1.79	97	iPnc	59	25.88	1.1
			iSn	59	51.06	
BDV	1.88	133	iPnc	59	26.25	0.2
			iSn	59	51.25	
TTG	2.04	123	iPnd	59	28.81	0.5
			iSn	59	55.65	
IVA	2.26	107	iPnc	59	32.53	0.9
			iSn	00	01.61	
VBY	2.28	328	ePn	59	32.00	0.2
			e(Sn)	00	00.50	
ULC	2.33	133	iPnd	59	32.23	-0.3
			iSn	00	02.43	
ZAG	2.35	343	e(Pn)	59	34.20	1.5
			eSn	00	00.10	
PVY	2.42	113	iPnc	59	34.34	0.5
			iSn	00	05.46	
PTJ	2.43	343	ePn	59	34.50	0.5
			e(Sg)	00	00.70	
RIY	2.55	315	iPn	59	36.80	1.2
			iSn	00	12.00	
BRT	2.70	176	P	00	09.80	32.0X
LACI	2.81	133	ePn	00	04.00	24.8X
CEY	2.82	321	ePn	59	39.50	0.0
			eSn	00	15.40	
ARV	2.92	270	P	59	40.80	-0.1
SDI	2.98	232	P	59	55.00	13.3X
LJU	3.01	326	e(Pn)	59	45.00	2.8X
			e(Pg)	59	51.00	
			eSg	00	30.50	
TIR	3.09	135	ePn	00	06.00	22.7X
TRI	3.12	314	e(Pn)	59	43.40	-0.3
			e(Pg)	59	50.70	
			e	00	23.50	
			e(Sg)	00	33.10	
ASS	3.18	262	P	59	45.00	0.4
PHP	3.19	125	ePn	59	50.90	6.2X
SGO	3.25	203	P	00	10.00	24.4X
VOY	3.29	319	ePn	59	45.70	-0.5
			e	00	11.50	
			e(Sn)	00	27.50	
			e	00	34.50	
MNS	3.36	251	P	59	48.00	0.9
CRE	3.64	273	P	59	53.00	1.8
SKO	3.67	114	ePn	00	27.50	36.0X
	1.3s		47.00nm			
			iSn	00	52.00	
			Lg	00	59.00	
RBL	3.74	321	P	59	51.70	-1.0
OHR	3.76	130	e(Pn)	00	04.00	11.1X
FVI	4.23	317	P	59	58.60	-0.8
KBA	4.33	325	ePn	00	00.00	-1.1
			eSn	00	47.50	
WTTA	5.26	316	iPnc	00	12.40	-1.8
			e(Sn)	01	13.00	
GEC2	5.74	338	Pn	00	17.50	-3.4X
			Sn	01	21.10	
KHC	6.03	338	ePn	00	21.50	-3.4X
			ePg	00	35.00	
			eSg	01	28.50	
			e	02	12.40	
	S.D. = 1.0		on 25 of 36 obs.			

% MAY 06, 1993 18h 43m 39.88± 1.11s
39.618 N ±10.7km 28.862 E ± 8.0km
DEPTH = 5.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

KCT	0.74	329	ePg	43	54.90	0.2
			eSg	44	07.40	
YLV	1.03	22	iPg	43	59.50	-0.3
BNT	1.03	316	ePg	43	59.90	0.0
EDC	1.06	314	ePg	44	00.00	-0.3
ALT	1.12	120	ePg	44	01.40	0.0
			eSg	44	14.40	
EYL	1.37	46	ePn	44	05.90	0.1
	S.D. = 0.3		on 6 of 6 obs.			

MAY 06, 1993 18h 44m 23.59± 0.47s
40.863 N ± 4.0km 22.916 E ± 4.4km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 2.0 (SKO).

THE	0.23	171	ePg	44	28.68	0.1
			eSg	44	31.84	
KNT	0.30	357	ePg	44	30.12	0.3
SOH	0.33	97	ePg	44	30.68	0.1
			eSg	44	35.50	
GRG	0.40	284	ePg	44	31.76	-0.1
			eSg	44	37.52	
VAY	0.53	330	iPg	44	34.30	0.0
			iSg	44	41.60	
SRS	0.57	63	iPg	44	34.60	-0.6
			iSg	44	42.98	
LIT	0.83	203	ePg	44	39.40	-0.2
			eSg	44	51.02	
OUR	0.97	123	ePg	44	42.24	0.3
			eSg	44	55.68	
PAIG	1.10	148	iPg	44	44.24	0.0
			iSg	44	59.72	
	S.D. = 0.3		on 9 of 9 obs.			

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* MAY 06, 1993 19h 27m 58.28± 0.71s
34.243 N ±11.7km 139.189 E ±20.0km
DEPTH = 33.0km (normal)
4.1mb (6 obs.)
NEAR S. COAST OF HONSHU, JAPAN (230)

MAT	2.43	341	eP	28	37.00	0.5
			eS	29	10.00	
WRA	54.08	186	P	37	22.20	0.2
	0.6s		0.90nm			4.0mb
INK	57.69	26	eP	37	48.00	0.5
	0.6s		1.00nm			4.0mb
MBC	59.70	16	eP	38	01.00	-0.4
YKA	67.13	29	eP	38	49.20	-1.2
	0.6s		1.70nm			4.3mb
HFS	75.87	335	eP	39	42.00	-0.7
	0.3s		0.60nm			4.1mb
NB2	76.04	337	P	39	43.40	-0.4
	0.8s		2.10nm			4.2mb
LCCM	77.73	43	eP	39	54.20	0.6
FRB	79.89	12	eP	40	05.50	0.8
GEC2	84.10	327	P	40	27.30	0.2
	0.9s		0.87nm			3.9mb
			e	40	36.80	
ZOBO	149.64	61	PKP	47	48.00	5.6X
LPB	149.83	61	ePKP	47	54.00	11.5X
CNCB	150.10	61	PKP	47	50.00	6.9X
	S.D. = 0.7		on 10 of 13 obs.			

? MAY 06, 1993 19h 53m 12.00± 1.91s
30.620 S ±10.0km 177.674 W ±33.8km
DEPTH = 438.3 ± 13.9 km
4.6mb (3 obs.)
KERMADEC ISLANDS, NEW ZEALAND (178)

RAO	1.38	351	eP	54	09.00	-0.2
			eS	54	31.00	
HBZ	7.72	205	P	55	05.90	0.6
PUZ	8.16	203	eP	55	10.80	0.5
			S	56	34.60	
KUZ	8.22	220	P	55	11.20	0.3
WCZ	8.53	229	P	55	14.10	-0.3
NOZ	8.73	203	P	55	17.20	0.7
	0.2s		45.00nm			5.4mb
URZ	8.75	208	P	55	16.10	-0.7
			eS	56	48.80	
WLZ	9.13	216	eP	55	21.60	0.5
PAHZ	9.29	206	P	55	23.80	0.8
MAHZ	9.29	202	P	55	25.40	2.4
MOH	9.50	205	P	55	25.70	0.5
WHH	9.54	209	eP	55	26.00	0.2
MOZ	10.01	216	eP	55	32.30	1.3
NGZ	10.16	211	P	55	32.70	-0.2
WAHZ	10.29	207	eP	55	33.10	-1.1
TEHZ	10.37	204	eP	55	35.40	0.3
BSZ	10.97	211	eP	55	42.20	0.6
MNG	11.42	207	P	55	44.40	-2.2
			eS	57	44.90	
KIW	11.86	208	P	55	49.90	-1.5
MTW	11.88	206	P	55	51.10	-0.5
CAW	12.00	207	P	55	51.70	-1.2
MOW	12.20	206	eP	55	54.90	-0.2
MRW	12.25	208	eP	55	54.50	-1.1

		S	58 03.00			
SNZO	12.32	208 P	55 57.00	0.7		
		eS	58 02.00			
TCW	12.41	209 P	55 55.60	-1.7		
ORZ	12.92	215 eP	56 01.20	-1.5		
		S	58 16.30			
THZ	13.46	212 P	56 08.40	-0.3		
		S	58 27.40			
KHZ	13.72	208 P	56 11.80	0.5		
		S	58 32.70			
LTZ	14.56	211 P	56 21.40	1.2		
DZM	16.57	297 iPc	56 38.80	-2.1		
WB2	44.37	272 eP	00 44.70	1.3		
	0.4s	9.60nm		4.6mb		
		epP	01 21.40	166kmX		
		eS	06 33.50			
WRA	44.38	272 P	00 45.80	2.3		
	0.7s	2.60nm		3.7mb		
	S.D. = 1.2	on 32 of 32 obs.				

MAY 06, 1993 19h 58m 01.15± 0.27s
37.519 N ± 5.9km 137.323 E ± 5.4km
DEPTH = 33.0km (normal)
4.7mb (37 obs.) 4.5Msz (1 obs.)
NEAR WEST COAST OF HONSHU, JAPAN(226)

MAT	1.21	144 iPc	58 20.50	-1.3		
		iS	58 37.00			
SHK	4.80	233 iP	59 14.50	1.5		
	1.0s	600.00nm				
SSE	14.79	249 eP	01 30.20	0.6		
BJI	16.68	285 eP	01 57.50	3.6X		
	1.5s	57 00nm		4.5mb		
Z	12s	0.91um		3.9MszX		
		eS	05 14.00			
YAK	24.98	351 eP	03 21.00	-1.8		
	1.0s	40 00nm		5.0mb		
		e(S)	07 48.00			
LZH	26.77	277 eP	03 42.00	2.0		
	1.5s	140.00nm		5.4mb		
Z	16s	1.47um		4.6MszX		
E	15s	1.20um				
		pP	03 45.00	11kmX		
		eS	08 24.00			
		esS	08 31.00			
KMI	31.85	257 Pd	04 24.50	-1.0		
	1.5s	30.00nm		5.0mb		
CHG	38.30	252 eP	05 37.20	16.8X		
GUN	43.87	273 P	06 05.40	-1.2		
	0.8s	27.00nm		5.1mb		
PKI	44.39	273 P	06 10.80	0.0		
KKN	44.39	273 P	06 10.60	-0.1		
	0.8s	13.00nm		4.8mb		
DMN	44.61	273 P	06 13.60	1.1		
GKN	44.81	274 P	06 13.80	-0.2		
	0.6s	11.00nm		4.9mb		
SVW	47.10	38 eP	06 31.60	0.1		
IMA	47.94	31 eP	06 37.26	-0.9		
	0.9s	6.43nm		4.7mb		
FBA	50 44	32 e(P)	06 57.10	0.0		
	1.0s	1.00nm		3.8mb		
INK	55.44	27 eP	07 34.50	0.2		
	1.0s	2.00nm		4.1mb		
MBC	56.98	16 ePd	07 44.10	-1.2		
	1.0s	3.00nm		4.3mb		
WRA	57.22	183 P	07 46.30	-1.2		
	0.7s	16.90nm		5.2mb		
GBA	58.02	263 P	07 53.00	-0.3		
ASPA	60.94	184 iPc	08 12.30	-0.9		
	1.0s	16.90nm		5.1mb		
WARB	64.15	191 eP	08 34.00	-0.6		
YKA	65.00	29 eP	08 44.70	5.0X		
	0.8s	0.70nm		3.8mb		
OBN	65.72	322 eP	08 42.00	-2.4		
Z	16s	1.20um		5.2MszX		
N	14s	0.70um				
E	14s	0.90um				
		e	08 51.00			
		e	08 57.00			
KAF	66.35	331 iP	08 46.60	-1.7		
	0.6s	4.20nm		4.7mb		
NUR	67.95	330 iP	08 56.90	-1.6		
	0.6s	3.10nm		4.6mb		
STK	69.16	176 eP	09 05.50	-0.6		
	0.7s	2.30nm		4.4mb		
HFS	72.26	334 eP	09 23.40	-1.3		
	0.4s	1.00nm		4.1mb		
Z	16s	351.00um		7.7MszX		
		LR	38 25.00			
NB2	72.44	336 P	09 24.90	-0.9		
	0.9s	7.90nm		4.7mb		
LBFM	73.32	51 eP	09 32.36	0.8		
LCCM	76.34	42 eP	09 48.70	0.0		
FRB	77.00	11 eP	09 51.00	-0.8		
KVN	77.02	51 eP	09 53.47	0.8		
KSP	77.93	326 eP	09 57.70	0.5		
TNP	78.16	51 eP	09 59.05	0.1		
	0.7s	8.27nm		4.9mb		
BRG	78.93	327 eP	10 02.40	-0.2		
CLL	79.01	328 iPc	10 02.90	-0.1		
	0.9s	13.00nm		4.9mb		
PRU	79.32	326 Pd	10 05.40	0.6		
	0.8s	6.50nm		4.7mb		
DUG	79.46	47 eP	10 06.45	0.5		
	0.8s	5.29nm		4.6mb		
TPNV	79.47	51 (P)	10 06.83	0.8		
	0.4s	8.71nm		5.1mb		
BW06	79.60	44 eP	10 06.55	-0.2		
	0.9s	7.64nm		4.7mb		
MOX	80.08	328 eP	10 09.60	0.7		
DAU	80.22	46 eP	10 11.47	1.2		
KHC	80.38	326 P	10 11.00	0.5		
	1.0s	5.40nm		4.5mb		
		e	13 14.50			
GEC2	80.54	326 P	10 11.50	0.0		
	0.8s	3.25nm		4.4mb		
		e	13 14.60			
GRF	80.97	328 iPc	10 14.70	1.1		
	1.2s	36.00nm		5.2mb		
		e(pP)	10 18.20	11kmX		
RSSD	81.59	40 eP	10 17.70	0.5		
	1.1s	3.42nm		4.3mb		
PV09	82.72	46 eP	10 24.00	0.7		
PV10	82.86	47 eP	10 25.31	1.3		
PV08	82.95	46 eP	10 25.15	0.6		
CDF	83.61	329 eP	10 27.20	-0.2		
	0.9s	6.90nm		4.8mb		
BSF	84.26	329 eP	10 31.00	0.2		
LOR	85.90	330 eP	10 38.30	-0.5		
	1.0s	8.80nm		4.9mb		
Z	22s	0.20um		4.5Msz		
LBF	86.08	330 eP	10 40.10	0.3		
	1.3s	10.10nm		4.9mb		
LPL	86.13	328 eP	10 41.20	0.9		
	0.8s	2.70nm		4.5mb		
LPG	86.14	328 eP	10 42.40	2.0		
	0.8s	3.75nm		4.7mb		
SSF	86.20	330 eP	10 39.90	-0.4		
	1.1s	10.25nm		5.0mb		
SMF	86.41	330 eP	10 41.00	-0.4		
	0.8s	4.05nm		4.7mb		
AVF	86.49	330 eP	10 41.40	-0.3		
	1.1s	11.00nm		5.0mb		
LTX	92.36	50 eP	11 10.09	0.3		
ZOBO	149.14	54 PKP	17 48.20	3.7X		
CNCB	149.63	54 PKP	17 47.10	1.9		
SIV	153.09	42 ePKP	18 01.00	11.4X		
	S.D. = 1.0	on 58 of 63 obs.				

& MAY 06, 1993 20h 22m 46.32s
57.608 N 154.248 W
DEPTH = 50.0km
3.8mb (5 obs.)
KODIAK ISLAND REGION (13)
<AEIC>. ML 3.6 (AEIC).

KDC	0.95	81 ePd	23 02.23	-1.3		
		eS	23 15.28			
CDD	1.36	13 eP	23 08.64	-0.7		
		eS	23 27.56			
SYI	1.41	44 iP	23 08.99	-0.9		
		eS	23 27.18			
MCNL	1.58	358 iP	23 11.34	-1.1		
AUI	1.79	14 eP	23 14.54	-0.7		
		eS	23 36.63			
AUH	1.81	13 eP	23 15.04	-0.6		
AUE	1.82	14 eP	23 15.22	-0.4		
AUL	1.83	13 eP	23 15.46	-0.4		
PDB	2.19	1 iP	23 19.43	-1.5		
		eS	23 44.62			
XLV	2.28	35 eP	23 21.76	-0.4		
CNPM	2.49	38 eP	23 23.59	-1.6		
		eS	23 52.30			
INW	2.53	13 eP	23 24.57	-1.4		
		eS	23 53.68			
INE	2.54	14 eP	23 24.68	-1.3		
BRLK	2.79	38 eP	23 27.30	-2.2		
		eS	23 57.76			
RS1	2.96	14 eP	23 30.52	-1.7		
RSO	2.97	14 eP	23 30.66	-1.6		
		eS	24 05.88			
RS2	2.97	14 eP	23 30.74	-1.5		
RDW	2.98	14 eP	23 30.83	-1.6		
NCT	3.04	12 eP	23 31.57	-1.6		
DFR	3.10	14 eP	23 32.51	-1.5		
NKA	3.51	25 eP	23 39.31	-0.3		
SEW	3.53	43 eP	23 36.54	-3.5		
SLKM	3.58	34 eP	23 37.60	-3.1		
SVW	3.58	349 eP	23 38.16	-2.6		
CKL	3.73	14 eP	23 40.88	-2.1		
CKT	3.75	15 eP	23 41.01	-2.2		
SPU	3.76	16 eP	23 40.93	-2.3		
CKN	3.78	15 eP	23 41.52	-2.0		
BGL	3.79	14 eP	23 41.82	-1.9		
CP2	3.81	15 eP	23 41.69	-2.4		
CPAM	3.81	15 eP	23 41.95	-2.1		
MPA	3.84	39 eP	23 41.33	-3.0		
SDN	4.14	239 eP	23 45.02	-3.6		
PTE	4.23	37 eP	23 46.38	-3.4		
SUA	4.26	23 eP	23 47.69	-2.7		
PMS	4.36	31 P	23 48.70	-3.0		
SKT	4.60	16 eP	23 51.49	-3.5		
PWA	4.62	27 P	23 52.50	-2.8		
PLRM	4.77	31 eP	23 53.56	-3.8		
PMR	4.77	31 eP	23 52.47	-4.9		
		eS	24 38.86			
HIN	4.88	52 iP	23 55.18	-4.0		
GHO	4.97	31 eP	23 56.57	-3.8		
SML	5.17	33 eP	23 59.32	-3.8		
CVA	5.28	53 eP	24 00.22	-4.4		
VLZ	5.37	46 eP	24 01.84	-4.1		
TTA	5.41	351 eP	24 03.45	-3.1		
SCM	5.50	37 eP	24 04.02	-3.7		
KAIM	5.62	61 eP	24 04.92	-4.5		
KLU	5.75	44 eP	24 07.37	-4.0		
TRF	6.18	17 eP	24 13.89	-3.5		
TZL	6.29	41 eP	24 15.83	-3.0		
SNH	6.45	62 eP	24 17.09	-4.0		
CROM	6.52	56 eP	24 18.11	-4.1		
GLB	6.55	50 eP	24 18.28	-4.2		
SDG	6.58	38 eP	24 19.41	-3.4		
TGL	6.66	57 eP	24 19.61	-4.5		
PAX	6.92	35 eP	24 23.36	-4.4		
BALM	6.99	56 eP	24 24.30	-4.4		
YAH	7.03	62 eP	24 25.06	-4.2		
CTGM	7.42	58 eP	24 30.61	-4.1		
HDA	7.68	24 eP	24 33.20	-5.0		
INK	14.18	32 eP	26 10.00	4.3		
YKA	20.14	59 eP	27 16.00	-2.5		
	0.8s	1.30nm		3.3mb		
MBC	22.49	21 eP	27 40.50	-1.5		
	0.6s	1.00nm		3.4mb		
NB2	61.14	8 P	32 52.00	-5.3		
	0.7s	0.90nm		4.0mb		
HFS	62.22	7 eP	32 58.80	-5.6		
	1.1s	7.10nm		4.7mb		
GEC2	73.45	8 P	34 10.80	-3.9		
	0.7s	0.95nm		3.9mb		
	67 obs. associated					

MAY 06, 1993 20h 35m 55.62± 0.39s
14.395 N ± 6.5km 40.126 E ± 4.2km
DEPTH = 10.0km (geophysicist)
5.1mb (55 obs.) 4.7Msz (2 obs.)
ETHIOPIA (558)
Mw 5.3 (HRV). MD 5.1 (ARO).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 23S, 39C
Centroid Location:
Origin Time 20:36: 2.9 0.5
Lat 14.52N 0.06 Lon 40.14E 0.04
Dep 15.0 FIX Half-duration 1.1
Moment Tensor; Scale 10**16 Nm
Mrr=-8.28 0.44 Mtt= 0.53 0.57
Mff= 7.75 0.45 Mrt= 0.00 0.00
Mrf= 0.00 0.00 Mtf=-3.79 0.49
Principal Axes:

T	Val=	9.38	Plg=	0	Azm=	247
N		-1.09		0		157
P		-8.28		90		180

06d 20h

Best Double Couple:Mo=8.8*10**16
NP1:Strike=337 Dip=45 Slip= -90
NP2: 157 45 -90

| | | |

		i	46	14.00		
		sP	46	29.00		
		eS	54	28.00		
BJI	70.27 52	eP	47	11.50	0.3	
	1.0s	11.00nm			4.9mb	
	Z 28s	1.03um			4.9MszX	
	E 18s	1.51um				
		eS	56	24.00		
		eSS	01	00.00		
YAK	77.23 29	eP	47	51.00	-0.3	
FRB	85.22 335	eP	48	33.00	-0.3	
MBC	88.70 355	eP	48	51.00	0.9	
	1.0s	3.00nm			4.5mb	
INK	97.40 358	eP	49	34.00	3.7X	
WRA	98.67 108	P	49	39.00	2.2	
	0.8s	0.60nm			4.3mb	
	S.D. = 1.0	on 163 of 173 obs.				

MAY 06, 1993 20h 40m 40.84± 0.88s
42.982 N ±11.3km 17.809 E ± 6.6km
DEPTH = 10.0km (geophysicist)
ADRIATIC SEA (382)
ML 2.5 (TTG).

BRY	0.55 98	iPgd	40	50.44	-1.5	
		iSg	40	58.44		
HCY	0.74 136	iPgd	40	54.69	-0.6	
		iSg	41	05.32		
NKY	0.89 101	iPgd	40	57.41	-0.6	
		iSg	41	09.94		
HVAR	1.02 282	ePg	40	59.70	-0.4	
		iSg	41	16.00		
BDV	1.03 133	iPgd	41	00.06	-0.2	
		iSg	41	14.75		
TTG	1.20 117	iPgc	41	03.34	0.1	
		iSg	41	20.50		
PLE	1.21 73	iPgc	41	03.37	-0.1	
		iSg	41	20.55		
ULC	1.47 133	iPgd	41	08.29	0.8	
		iSg	41	29.76		
IVA	1.54 93	iPgd	41	09.43	1.0	
		iSg	41	31.53		
PVY	1.64 103	iPnc	41	11.32	1.4	
		iSn	41	34.49		
	S.D. = 1.0	on 10 of 10 obs.				

% MAY 06, 1993 20h 56m 27.74± 0.63s
26.408 S ± 5.5km 27.380 E ± 6.2km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 3.0 (PRE).

PRY	0.53 171	iPc	56	36.90	-1.4	
		S	56	42.80		
KSR	0.69 321	iPd	56	41.00	-0.6	
		S	56	50.00		
BFS	0.72 227	eP	56	42.40	0.2	
		S	56	51.40		
SLR	1.05 51	iPd	56	48.40	0.3	
		S	57	01.70		
SEK	1.92 174	eP	57	02.50	0.9	
		S	57	26.20		
SWZ	1.99 247	eP	57	03.00	0.4	
		S	57	27.10		
BFT	2.50 74	eP	57	10.00	0.0	
		S	57	39.00		
BLF	2.89 201	eP	57	15.60	0.1	
FRS	3.79 208	eP	57	35.00	6.9X	
	S.D. = 0.8	on 8 of 9 obs.				

MAY 06, 1993 21h 01m 36.52± 0.62s
42.572 N ± 4.3km 18.484 E ± 5.3km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 2.2 (TTG).

HCY	0.12 175	iPgc	01	39.25	-0.3	
		iSg	01	41.25		
BRY	0.33 8	iPgd	01	42.81	-0.6	
		iSg	01	47.78		
BDV	0.38 138	iPgc	01	44.32	-0.1	
		iSg	01	50.49		
NKY	0.45 57	iPgc	01	45.58	-0.1	
		iSg	01	52.78		
TTG	0.59 104	iPgc	01	48.20	-0.3	
		iSg	01	57.81		
ULC	0.83 137	iPgc	01	52.61	0.0	
		iSg	02	05.52		
PLE	1.01 41	iPgd	01	55.82	0.1	
		iSg	02	11.05		
IVA	1.08 73	iPgd	01	57.37	0.4	
		iSg	02	14.01		
PVY	1.10 88	iPgc	01	57.73	0.5	
		iSg	02	14.78		
HVAR	1.61 293	eP	02	05.60	0.5	
		iSg	02	28.10		
	S.D. = 0.4	on 10 of 10 obs.				

MAY 06, 1993 22h 40m 30.75± 0.87s
48.354 N ± 5.5km 8.392 E ± 8.9km
DEPTH = 10.0km (geophysicist)
GERMANY (543)
ML 2.4 (LDG).

FEL	0.54 208	ePg	40	42.00	0.3	
SLE	0.59 173	iPc	40	42.70	-0.1	
CDF	0.75 275	Pg	40	45.80	0.4	
		Sg	40	56.20		
ZLA	0.87 180	ePc	40	48.00	0.4	
BSF	1.19 245	Pn	40	52.50	-0.6	
		Pg	40	54.00		
		Sg	41	10.70		
TOD	1.28 12	ePg	40	53.69	-0.8	
HAU	1.41 256	Pn	40	55.50	-1.0	
		Pg	40	58.30		
		Sg	41	17.40		
RUP	1.61 327	ePg	41	00.72	1.4	
TMA	2.27 172	eP	41	14.50	5.4X	
LOR	3.24 252	Pg	41	32.50	9.8X	
		Sg	42	13.30		
LBF	3.28 247	Pg	41	33.80	10.5X	
		Sg	42	15.60		
	S.D. = 0.9	on 8 of 11 obs.				

MAY 06, 1993 22h 43m 27.43± 0.39s
45.486 N ± 4.3km 26.217 E ± 6.5km
DEPTH = 160.2 ± 5.5 km
3.5mb (4 obs.)
ROMANIA (358)

MLR	0.19 272	iPc	43	49.00	0.3	
ISR	0.42 146	iPc	43	49.60	0.3	
VRI	0.52 43	iPc	43	50.00	-0.3	
CMP	0.86 256	iPc	43	55.00	2.6X	
BUC1	1.15 187	iPc	44	13.20	18.5X	
BIR	1.26 51	iP	43	56.00	0.3	
TNR	1.38 278	ePd	43	48.00	-8.9X	
CFR	1.40 102	iPc	43	56.00	-1.0	
PTT	1.45 5	eP	43	58.00	0.4	
IAS	1.95 28	eP	44	10.00	7.1X	
PSN	2.29 141	iPc	44	07.00	0.1	
PVL	2.36 196	iPd	44	09.00	1.3	
GZR	2.42 269	ePd	44	09.00	0.4	
JMB	3.03 175	iPd	44	16.00	-0.1	
BZS	3.23 274	eP	44	17.50	-1.2	
PLD	3.55 198	iP	44	22.00	-0.8	
DMK	3.83 162	ePn	44	26.00	-0.4	
KDZ	3.88 189	iPd	44	27.00	0.0	
RZN	3.95 197	iPd	44	28.00	-0.1	
MMB	4.29 206	iPc	44	33.00	0.5	
VAY	4.94 214	ePn	45	03.70	22.8X	
HFS	16.46 337	eP	47	12.40	2.2X	
	0.4s	1.20nm			3.6mb	
NB2	17.90 336	P	47	26.40	-0.9	
	0.5s	1.10nm			3.5mb	
NSD	20.17 351	eP	47	51.30	0.6	
	0.5s	2.40nm			3.9mb	
YKA	67.90 342	eP	54	10.50	0.5	
	0.6s	0.40nm			3.4mb	
	S.D. = 0.7	on 19 of 25 obs.				

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* MAY 06, 1993 23h 01m 44.40± 1.83s
4.147 N ± 7.3km 128.135 E ±12.5km
DEPTH = 50.1 ± 16.5 km
4.6mb (12 obs.) 3.7Msz (1 obs.)
NORTH OF HALMAHERA, INDONESIA (264)

DAV	3.88 319	eP	02	42.00	-1.0	
BAG	14.27 329	eP	05	07.00	1.5	
MTN	17.14 170	eP	05	42.70	0.6	
KNA	19.78 178	eP	06	13.00	-0.4	
WB2	24.71 166	eP	07	02.30	-0.2	
	0.8s	22 00nm			4.7mb	
		eS	11	19.70		
MBL	26.43 198	eP	07	19.00	0.5	
ASPA	28.21 169	eP	07	34.60	-0.1	
	0.4s	7.10nm			4.6mb	
	Z 21s	0.20um			3.7Msz	
		ePcP	10	47.20		
		eS	12	14.40		
		eScS	18	14.00		
LOE	29.04 299	eP	07	41.00	-1.2	
NANU	29.27 204	iPd	07	45.00	0.8	
NST	29.82 295	eP	07	52.00	2.8	
WARB	30.18 183	eP	07	53.00	0.7	
KHT	30.95 292	eP	08	11.30	12.1X	
MEEK	31.96 196	eP	08	07.50	-0.4	
CHG	32.02 299	eP	08	07.70	-0.9	
KMI	32.10 313	eP	08	09.00	-0.5	
	1.5s	30.00nm			4.9mb	
		pP	08	13.00	14kmX	
		sP	08	16.00		
STK	38.05 161	eP	09	00.20	0.4	
	0.9s	3.90nm			4.3mb	
LZH	38.87 328	iPc	09	07.00	0.0	
	1.2s	43.00nm			5.2mb	
	Z 15s	0.29um			4.2MszX	
	N 15s	0.17um				
		sP	09	13.50		
BRS	39.36 144	iP	09	09.00	-1.9	
	1.0s	3.00nm			4.1mb	
GUN	46.62 305	P	10	09.80	-0.4	
	0.6s	32.00nm			5.4mb	
PKI	46.88 304	P	10	11.20	-1.0	
KKN	47.07 305	P	10	13.40	-0.2	
DMN	47.15 304	P	10	16.80	2.6	
GKN	47.68 305	P	10	17.40	-0.9	
HYB	50.30 289	eP	10	50.00	11.6X	
GBA	50.87 284	P	10	42.00	-0.8	
YAK	57.75 1	eP	11	34.00	1.7	
QUE	63.12 302	eP	12	08.30	-1.4	
MAIO	70.38 307	eP	12	55.00	-0.5	
TTA	79.90 27	(P)	13	49.15	-0.2	
	1.5s	8.14nm			4.4mb	
TAB	81.01 308	eP	14	04.00	8.2X	
IMA	81.44 24	eP	13	56.53	-0.9	
	1.2s	7.34nm			4.5mb	
		e	14	05.18		
OBN	87.51 325	eP	14	30.00	2.1	
		e	14	34.00		
INK	89.26 22	eP	14	44.00	7.9X	
MBC	91.24 13	eP	14	46.00	0.8	
HFS	98.30 333	eP	15	15.40	-2.3	
	0.6s	1.30nm			4.6mb	
YKA	98.54 25	eP	15	18.50	-0.2	
	0.9s	1.10nm			4.4mb	
NB2	99.03 334	P	15	25.80	4.7X	
	1.0s	1.90nm			4.6mb	
TCA	150.42 158	iPKP	21	33.00	5.9X	
CNCB	159.79 130	PKP	21	43.00	2.6X	
LPB	159.86 129	(PKP)	21	40.00	-0.3	
ZOBO	160.00 128	PKP	21	42.20	1.5	
	S.D. = 1.3	on 34 of 41 obs.				

% MAY 07, 1993 00h 27m 51.85± 0.77s
44.421 N ± 6.6km 7.228 E ± 9.5km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.7 (GEN).

PZZ	0.12 313	P	27	55.04	0.0	
		S	27	56.92		
STV	0.19 158	P	27	56.19	0.1	
		S	27	58.66		
ENR	0.24 144	P	27	57.10	0.1	
		S	28	00.26		
BHB	0.42 3	P	28	00.44	0.0	
		S	28	06.48		
ROB	0.48 105	P	28	01.68	0.1	
		S	28	08.73		
IMI	0.70 137	P	28	05.43	-0.3	
		S	28	14.77		
	S.D. = 0.2	on 6 of 6 obs.				

& MAY 07, 1993 00h 52m 37.41s
60.313 N 152.402 W
DEPTH = 90.1km
4.4mb (24 obs.)
SOUTHERN ALASKA (2)
<AEIC>. Felt (IV) at Kodiok;
(III) at Tyonek, Kenai and

07d 00h

Ninilchik; (II) at Anchorage and Chugiak. Felt in the Homer area and throughout much of the Cook Inlet region.

RS1	0.23	310	ePc	52	50.46	1.1
RSO	0.23	311	iPc	52	50.45	1.1
RS2	0.23	311	ePc	52	50.46	1.1
RDW	0.26	310	iPc	52	50.46	-0.7
RDN	0.27	319	ePc	52	50.53	-0.5
			eS	53	01.31	
DFR	0.31	333	iPc	52	50.51	-0.7
NCT	0.36	314	ePc	52	50.42	-1.1
INE	0.42	233	iPd	52	51.03	-0.9
INW	0.44	236	iPd	52	51.31	-0.8
NKA	0.72	53	iPc	52	55.45	1.1
OPT	0.78	212	P	52	57.40	2.4
CKL	0.89	2	iPc	52	55.36	-0.9
SPU	0.89	11	iPc	52	55.31	-0.9
			eS	53	09.83	
CKT	0.90	6	iPc	52	55.37	-1.0
CKN	0.92	7	iPc	52	55.83	-0.7
XLV	0.93	158	iPd	52	55.80	-0.8
			eS	53	11.05	
BRLK	0.94	125	ePd	52	55.87	-0.9
			eS	53	10.93	
BGL	0.95	0	iPc	52	56.22	-0.8
CP2	0.96	5	iPc	52	56.10	-1.1
CRP	0.96	7	iPc	52	55.81	-1.4
CNPM	0.98	143	ePd	52	56.43	-0.8
CGLM	1.02	11	ePc	52	56.96	-0.7
PDB	1.04	240	iPd	52	56.65	-1.2
			eS	53	12.30	
AUL	1.07	210	iPd	52	57.37	-0.8
AUE	1.08	208	iPd	52	57.26	-1.0
AUH	1.09	209	iPd	52	57.65	-0.9
SLKM	1.10	79	ePc	52	57.44	-1.2
			eS	53	13.79	
AUI	1.11	208	iPd	52	57.59	-1.1
			eS	53	13.95	
SUA	1.41	34	iPc	53	01.86	-0.7
			eS	53	21.22	
SEW	1.49	97	ePc	53	01.75	-1.6
MCNL	1.50	222	iPd	53	02.09	-1.4
			eS	53	21.69	
MPA	1.52	82	iPc	53	02.56	-1.2
CDD	1.52	205	iPd	53	02.33	-1.6
PMS	1.68	55	P	53	05.00	-0.9
SYI	1.71	180	iPd	53	05.17	-1.1
SKT	1.73	14	eP	53	05.39	-1.1
PTE	1.76	70	iPc	53	05.22	-1.6
SVW	1 77	298	P	53	05.10	-2.1
PWA	1 82	41	P	53	06.90	-0.8
PLRM	2.05	50	ePc	53	09.01	-1.7
PMR	2.05	50	iPd	53	09.00	-1.8
PWL	2.08	73	P	53	13.10	1.8
GHO	2.24	48	eP	53	11.51	-1.9
CFI	2.44	67	eP	53	12.90	-3.1
SML	2.48	51	iPc	53	14.63	-2.1
KDC	2.57	181	P	53	15.10	-2.8
			S	53	45.80	
SCM	2.90	56	ePc	53	20.08	-2.4
HIN	2.93	86	eP	53	19.01	-3.9
HUR	2.98	25	eP	53	22.38	-1.2
VLZ	3.09	72	ePc	53	22.02	-3.0
			eS	53	57.38	
TTA	3.14	328	P	53	24.00	-1.8
MID	3.18	104	P	53	24.80	-1.4
TRF	3.30	17	eP	53	25.81	-2.3
CVA	3.31	83	ePc	53	24.19	-3.8
KLU	3.38	67	iPc	53	26.11	-3.0
RND	3.53	27	eP	53	28.25	-2.9
TZL	3.80	60	eP	53	32.58	-2.2
MCK	3.80	24	eP	53	33.27	-1.6
RAGM	3.84	86	eP	53	31.09	-4.3
SDG	3.97	53	iPd	53	34.94	-2.3
KAIM	4.01	92	eP	53	33.84	-3.9
PAX	4.25	48	iPd	53	38.99	-2.1
			eS	54	28.03	
GLB	4.35	71	iPc	53	38.94	-3.5
THY	4.43	42	eP	53	41.76	-1.8
NEA	4.55	18	eP	53	42.00	-3.2
CROM	4.60	80	eP	53	42.17	-3.9
WRH	4.63	24	eP	53	43.17	-3.1
TGL	4.75	80	eP	53	43.82	-4.2
SNH	4.77	87	eP	53	45.72	-2.5
MLY	4.80	8	eP	53	45.11	-3.6
HDA	4.83	29	ePd	53	46.02	-3.0
CC8	4.84	24	eP	53	46.00	-3.2
CYK	4.95	88	eP	53	48.54	-2.2
BALM	5.00	77	ePc	53	47.46	-4.1
MDM	5.04	21	eP	53	49.16	-2.9
FBA	5.07	23	P	53	49.70	-2.7
GLM	5.23	24	ePd	53	51.18	-3.5
YAH	5.30	85	eP	53	52.15	-3.6
TMW	5.38	52	eP	53	55.03	-1.8
CTGM	5.49	78	eP	53	55.58	-2.8
IMA	5.81	355	P	53	59.70	-3.1
PCA	6.06	87	iPc	54	03.49	-2.7
PRP	6.09	28	ePd	54	03.65	-3.1
BCPM	6.39	88	eP	54	08.14	-2.5
PNL	6.56	90	ePc	54	09.83	-3.2
SDN	6.60	224	P	54	11.30	-2.1
HQN	6.86	91	eP	54	13.43	-3.7
FYU	7.05	24	ePd	54	15.86	-3.8
SIT	9.47	103	P	54	49.00	-3.7
INK	11.41	37	ePc	55	15.10	-3.6
	0.7s		12.00nm			4.8mb X
ADK	15.88	249	eP	56	15.95	-0.6
	0.6s		24.32nm			4.6mb
YKA	18.05	67	eP	56	40.10	-3.2
	0.5s		10.90nm			4.3mb
MBC	19.62	23	ePc	56	55.70	-4.9
	0.6s		17.00nm			4.5mb
FCC	28.78	67	ePc	58	30.00	1.9
HVU	30.41	110	eP	58	41.71	-1.2
BW06	31.17	105	eP	58	47.51	-2.3
	0.9s		2.88nm			4.0mb
DAU	32.19	109	eP	58	57.05	-1.7
ULM	32.73	82	eP	59	03.50	0.6
			pP	59	28.00	109kmX
RSSD	32.87	97	eP	59	02.43	-2.1
	0.6s		2.30nm			4.2mb
			ePcP	01	42.81	
MSU	33.28	113	eP	59	06.85	-1.3
			epP	59	30.15	103kmX
			iPcP	01	45.02	
SRU	33.57	110	iPc	59	09.39	-1.2
			epP	59	33.22	105kmX
PV09	34.71	109	iPc	59	18.78	-1.7
			epP	59	43.38	109kmX
PV08	34.87	109	eP	59	20.21	-1.8
			epP	59	44.94	110kmX
FRB	36.82	48	ePc	59	34.70	-2.9
	0.6s		7.00nm			4.8mb
JAQ	39.98	64	ePc	00	01.00	-3.1
DAG	40.10	15	eP	00	00.50	-4.3
LTX	44.81	111	eP	00	40.96	-2.8
			epP	01	05.51	105kmX
MIAR	45.39	97	eP	00	45.17	-3.0
	0.8s		2.96nm			4.2mb
			epP	01	09.86	105kmX
GRT	46.09	92	(P)	00	50.42	-3.2
RSNY	47.07	73	eP	00	58.92	-2.4
	1.4s		8.84nm			4.4mb
			epP	01	22.97	101kmX
MYNC	49.66	88	eP	01	18.15	-3.4
	0.9s		2.48nm			4.2mb
			epP	01	43.01	104kmX
LMN	50.59	65	eP	01	27.50	-0.9
GOGA	51.32	89	(P)	01	30.84	-3.2
	0.8s		2.77nm			4.3mb
			epP	01	55.84	104kmX
JSC	51.72	87	eP	01	33.63	-3.5
			epP	01	58.99	106kmX
SDF	52.57	1	iP	01	38.00	-5.0
SGS	52.96	87	(P)	01	44.45	-1.9
KAF	57.90	1	eP	02	16.10	-5.4
	0.5s		2.40nm			4.5mb
NB2	58.32	9	P	02	19.00	-5.5
	0.7s		1.80nm			4.3mb
HFS	59.40	8	eP	02	25.40	-6.6
	0.4s		2.50nm			4.7mb
NUR	59.49	2	iP	02	27.50	-5.0
	0.4s		3.90nm			4.9mb
EKA	62.14	19	P	02	45.00	-5.5
	0.8s		4.00nm			4.5mb
LZH	65.62	300	iPd	03	09.20	-4.5
	1.0s		37.00nm			5.3mb
			sP	03	55.50	
BRG	68.62	9	e(P)	03	49.60	17.5
MOX	68.65	11	eP	03	28.40	-3.9
			e	03	53.80	
KHC	70.32	10	eP	03	40.50	-2.1
			e	04	07.50	
LOR	71.05	17	iPd	03	42.70	-4.3
	0.7s		3.65nm			4.4mb
SSF	71.20	17	iPd	03	43.70	-4.1
	0.7s		3.95nm			4.4mb
LBF	71.34	17	iPd	03	44.30	-4.5
	0.5s		1.25nm			4.0mb
AVF	71.44	17	iPd	03	44.90	-4.4
	0.6s		3.50nm			4.4mb
BGF	71.59	18	iPd	03	45.90	-4.3
	0.5s		2.75nm			4.4mb
LSF	71.69	19	iPd	03	46.30	-4.5
	0.5s		2.25nm			4.3mb
LFF	72.83	20	iPd	03	53 50	-4.0
	0.6s		3.25nm			4.4mb
LPO	73.16	19	iPd	03	55 30	-4.1
	0.6s		2.55nm			4.3mb
MNI	85.16	264	eP	05	11.50	7.0
BFT	145.35	356	ePKP	12	01.50	-4.4
SLR	145.43	359	ePKP	12	01.50	-4.5
	0.7s		22.00nm			
PRY	146.63	0	ePKP	12	04.10	-3.8
	0.6s		9.00nm			
POF	148.64	13	ePKP	12	11.50	0.7
BLF	148.78	2	ePKP	12	10.10	-1.2
FRS	149.40	4	ePKP	12	12.20	0.2
SPA	150.15	180	iPKPc	12	13.50	1.3
	1.0s		22.50nm			
	141 obs. associated					

MAY 07, 1993 01h 02m 59.38± 0.16s
6.396 S ± 3.0km 130.001 E ± 4.6km
DEPTH = 157.4km (2 depth phases)
5.2mb (25 obs.)
BANDA SEA (280)

MTN	6.51	170	iPd	04	30.10	-3.8X
			i	04	30.40	
DAV	14.10	342	eP	06	13.00	-0.4
WB2	14.12	163	iPc	06	07.00	-6.6X
			i	06	08.60	
			eS	08	34.80	
KHKI	14.41	261	eP	06	16.20	-1.1
			e(S)	08	54.40	
			e	12	48.80	
CTB	14.69	337	eP	06	21.00	0.1
CGP	15.67	340	iPd	06	33.00	0.0
TSM	16.10	311	ePc	06	41.70	3.3X
PMG	17.26	101	eP	06	51.00	-1.4
ASPA	17.58	168	iPc	06	52.70	-3.6X
	Z 20s		0.90um			
			eS	09	54.80	
MAP	17.66	340	iPd	06	59.00	1.8
MBL	17.67	213	eP	06	55.70	-1.6
	0.4s		75.00nm			5.4mb
			e	06	57 00	
			eS	10	02.00	
PLP	18.15	344	ePc	07	01.80	-0.7
KKM	18.49	312	ePc	07	05.20	-1.1
	0.9s		170.10nm			5.4mb
WARB	19.94	189	eP	07	20.70	-0.4
	0.4s		71.00nm			5.5mb
CTA	20.84	132	iP	07	30.00	-0.2
	1.0s		70.00nm			5.1mb
			eS	11	15.00	
NANU	21.29	220	iPc	07	35.00	0.4
	0.5s		106.00nm			5.5mb
OCP	22.69	337	eP	07	50.00	1.7
MEEK	22.87	207	eP	07	51.00	1.0
	0.3s		28.00nm			5.2mb
			e	08	11.00	92kmX
			eS	12	07.00	
QLP	24.23	148	iPc	08	02.70	-0.4
			eS	12	35.50	
FORT	24.32	184	eP	08	03.60	-0.3
BAG	24.50	338	eP	08	06.00	0.1
GUMO	24.74	37	eP	08	03.20	-4.7X
			e	08	24.70	99kmX
PJG	24.74	37	eP	08	02.30	-5.6X
COOL	25.74	198	eP	08	18.00	0.9
MRWA	26.27	209	iPd	08	31.80	9.9X
			e	08	57.00	118kmX
			eS	13	23.00	
BAL	27.13	206	eP	08	29.00	-0.7
			e	09	06.50	185kmX
			eS	13	42.00	
STK	27.57	158	iPd	08	32.50	-1.1

0.5s 29.80nm 5.2mb
ipP 09 04.80 155km
KGM 27.92 287 eP 08 37 50 0.6
MUN 28.53 205 iPd 08 42.10 -0.1
e 09 23.00 202kmX
eS 14 17.50
NWAO 28.95 203 iPd 08 46.00 0.0
ADE 29.54 165 iPd 08 51.10 -0.2
BRS 30.07 137 iPc 08 54.50 -1.5
0.5s 13.00nm 4.9mb
e 09 28.00 160km
RKG 30.50 201 eP 09 00.80 1.2
e 09 53.50 268kmX
IPM 30.91 290 ePd 09 02.90 -0.6
0.4s 18.30nm 5.2mb
BWA 32.67 151 iPd 09 19.50 0.8
epP 09 29.70 36kmX
CAN 33.68 151 iPd 09 27.10 -0.2
epP 09 36.60 32kmX
i 10 37.90
TOO 34.09 158 iPd 09 31.60 0.8
0.6s 24.00nm 5.1mb
i 10 36.50 334kmX
eS 15 48.00
i 17 36.00
LOE 36.60 311 eP 09 52.50 0.4
NST 36.82 307 eP 09 54.50 0.5
KHT 37.59 304 iPc 10 00.70 0.2
SSE 38.22 348 Pd 10 06.00 0.5
1.0s 11.00nm 4.5mb
DZM 38.47 118 iPc 10 08.70 0.8
BDT 38.60 308 eP 10 03.50 -5.4X
0.7s 150 40nm 5.8mb
TAU 39.45 160 eP 10 14.00 -1.6
CHG 39.56 310 iPc 10 17.40 0.6
1.0s 115.00nm 5.5mb
TKSJ 40.34 5 eP 10 23.10 0.1
WKYJ 40.74 7 P 10 26.10 -0.2
KMI 41.05 321 Pc 10 30.00 0.8
1.5s 120.00nm 5.3mb
YONJ 41.49 4 P 10 32.70 0.3
TSRJ 42.09 7 eP 10 36.90 -0.4
MTMJ 43.38 9 eP 10 46.90 -1.0
MAT 43.40 10 eP 10 46.00 -1.9
0.7s 29.45nm 5.0mb
(S) 17 05.00
BJI 47.93 346 eP 11 23.00 -0.6
1.0s 20.00nm 4.8mb
LZH 48.87 332 iPc 11 31.50 0.3
1.5s 54.00nm 5.0mb
pP 12 03.50 139kmX
sP 12 19.00
ScP 16 35.00
S 18 20.00
GUN 54.56 311 Pc 12 13.40 -0.7
PKI 54.74 310 Pc 12 14.60 -0.7
KKN 54.95 310 Pc 12 16.00 -0.7
DMN 54.99 310 Pc 12 16.40 -0.6
GKN 55.54 310 Pc 12 20.60 -0.3
GBA 55.84 291 Pc 12 22.00 -1.0
HYB 56.05 296 iPc 12 23.10 -1.5
1.0s 110.00nm 5.7mb
POO 60.64 295 iPc 12 47.20 -9.1X
CSY 61.31 189 eP 12 59.80 -0.2
NDI 61.62 307 iPc 13 01.40 -1.3
0.7s 78.77nm 5.7mb
YAK 68.21 360 iPd 13 44.00 -0.4
0.8s 78.00nm 5.6mb
iS 22 34.00
QUE 70.45 305 eP 13 59.00 0.0
MAW 75.51 201 iP 14 28.50 0.9
0.6s 29.07nm 5.2mb
MAIO 78.31 309 iPc 14 44.70 0.9
0.7s 17.79nm 4.9mb
SPA 83 64 180 iPc 15 11.30 0.0
0.6s 16.26nm 5.0mb
IMA 90.30 23 eP 15 42.40 -0.9
0 9s 2.08nm 4.2mb X
OBN 97.15 325 eP 16 14.00 -0.7
KAF 102.02 332 iPdiff16 35.20 -1.3
0.4s 1.50nm 5.1mb
NUR 103.08 331 ePdiff16 51.00 9.8X
YKA 107.21 26 ePdiff17 02.00 2.5X
0.5s 0.10nm 4.2mb
YKA 107.21 26 ePKP 21 06.50 -1.5
0.7s 1.20nm
NB2 109.24 333 Pdiff 17 07.30 -1.4

0.8s 1.50nm
VBY 111.79 317 ePKP 21 18.40 1.3
KBA 112.68 319 e(PKP)21 22.00 3.0X
WTTA 113.74 319 iPKPd 21 20.50 -0.7
0.6s 12.50nm
i 21 21.20
BSF 116.65 321 iPKPd 21 26.40 -0.2
0.8s 5.65nm
SRU 116.74 49 ePKP 21 27.12 0.0
HAU 116.86 321 iPKPd 21 27.20 0.3
LPG 117.51 318 iPKPd 21 28.80 0.3
0.8s 5.65nm
LPL 117.52 318 iPKPd 21 28.70 0.2
0.7s 6.15nm
FCC 117.81 24 ePKP 21 32.00 3.8X
PV09 117.95 50 ePKP 21 30.71 1.1
FRF 118.24 316 iPKPd 21 29.70 0.1
0.9s 6.20nm
LMR 118.41 316 iPKPd 21 30.10 0.2
0.8s 4.45nm
EKA 118.64 332 PKPc 21 30.80 0.9
1.1s 5.10nm
LOR 118.70 321 iPKPd 21 30.60 0.2
0.9s 5.10nm
LBF 118.74 321 iPKPd 21 30.80 0.3
1.0s 7.20nm
SSF 119.00 321 iPKPd 21 31.40 0.5
0.8s 6.05nm
AVF 119.21 321 iPKPd 21 31.40 0.1
0.8s 3.75nm
BGF 119.62 321 iPKPd 21 32.70 0.6
0.7s 11.90nm
RSSD 119.81 42 ePKP 21 32.21 -0.7
MAF 119.94 320 iPKPd 21 33.70 0.9
0.8s 4.45nm
GOL 120.41 47 ePKP 21 35.04 0.8
LSF 120.58 321 iPKPd 21 34.20 0.2
1 1s 7.35nm
CAF 120.79 319 iPKPd 21 35.30 0.9
0.9s 5.90nm
FRB 121.21 10 ePKP 21 34.00 -0.5
0.9s 5.00nm
LPF 121.34 324 iPKPd 21 35.80 0.5
0.8s 7.00nm
LPO 121.46 319 iPKPd 21 36.60 0.9
1.0s 6.00nm
MFF 121.46 322 iPKPd 21 36.00 0.4
0.7s 11.25nm
LFF 121.64 320 iPKPd 21 36.30 0.3
0.8s 6.30nm
ULM 121.94 33 ePKP 21 38.50 2.1X
EPF 122.71 318 iPKPd 21 38.60 0.4
0.8s 2.55nm
ETOR 125.26 316 ePKP 21 40.00 -3.3X
JAQ 128.33 19 ePKP 21 48.00 -0.6
KIC 135.03 273 PKP 21 50.70 -11.9X
e 22 03.00
GAC 135.05 25 ePKP 22 03.50 1.9
MYNC 137.57 43 ePKP 22 06.65 -0.2
CEH 140.33 38 ePKP 22 13.71 2.0
FSA 144.17 155 ePKPd 22 18.50 -0.2
MBO 146.58 286 iPKPd 22 26.60 3.7X
YJA 147.80 152 e(PKP)22 27.00 1.6
ARE 148.89 137 e(PKP)22 35.00 8.0X
VAO 150.63 186 ePKP 22 36.30 7.1X
CNCB 150.88 143 PKP 22 32.40 2.1X
i 22 38.00
LPB 151.02 142 PKP 22 28.00 -2.4X
i 22 37.00
ZOBO 151.21 142 PKP 22 32.20 1.3
1.2s 40.54nm
CCH 151.50 146 ePKP 22 33.00 2.0X
PPD 151.72 177 ePKP 22 37.60 6.8X
e 22 42.30
SIV 155.20 154 PKP 22 50.40 14.7X
i 23 15.60
S.D. = 0.9 on 99 of 123 obs.
? MAY 07, 1993 01h 48m 07.41± 3.69s
31.203 S ±27.0km 68.437 W ±35.1km
DEPTH = 107.9 ± 29.1 km
SAN JUAN PROVINCE, ARGENTINA (137)
RTLL 0.13 192 iPc 48 22.70 -0.2
S 48 32.00
RTCB 0.42 228 ePd 48 24.00 0.1
S 48 35.20

CFA 0.44 157 iPc 48 24.00 0.1
S 48 36.00
RTPR 1.89 62 ePd 48 39.30 0.0
MRA 2.62 118 ePc 48 39.80 -9.1X
S 49 20.00
TCA 3.30 93 e(P) 48 59.00 0.8X
(S) 49 34.50
RFA 3.56 180 eP 49 01.70 0.0
S 49 42.70
S.D. = 0.3 on 5 of 7 obs.
? MAY 07, 1993 01h 51m 22.27± 1.67s
12.542 N ±20.6km 122.679 E ±21.5km
DEPTH = 10.0km (geophysicist)
4.9mb (3 obs.)
LUZON, PHILIPPINE ISLANDS (249)
OCP 2.60 323 eP 52 04.00 -1.1
BAG 4.35 332 eP 52 30.00 -0.1
LOE 20.80 286 eP 56 12.50 6.1X
KMI 22.60 306 Pc 56 27.50 2.7
1.8s 70.00nm 4.9mb
BJI 27.98 349 eP 57 16.00 0.9
LZH 28.94 327 eP 57 29.00 4.9X
1.5s 16.00nm 4.6mb
Z 17s 0.59um 4.3MszX
N 16s 0.61um
GUN 37.59 300 P 58 39.20 -0.2
0.8s 31.00nm 5.1mb
PKI 37.90 299 P 58 41.40 -0.5
KKN 38.06 299 P 58 42.60 -0.6
DMN 38.16 299 P 58 43.60 -0.5
GKN 38.67 299 P 58 47.60 -0.6
MAIO 61.12 305 eP 01 40.00 0.7
YKA 93.09 23 eP 04 36.80 -0.6
0.6s 0.20nm 3.7mb X
S.D. = 1.2 on 11 of 13 obs.
MAY 07, 1993 03h 00m 21.33± 0.72s
23.118 S ± 7.3km 68.899 W ± 9.5km
DEPTH = 123.7 ± 12.3 km
4.1mb (1 obs.)
NORTHERN CHILE (123)
ANT 1.51 247 iP+ 00 50.00 0.5
iS 01 11.00
YJA 3.28 74 iPc 01 12.00 -0.5
SLA 3.50 118 ePd 01 16.80 1.5
CCH 6.27 25 P 01 52.30 -0.8
CNCB 6.33 8 P 01 54.00 -0.2
LPB 6.59 7 P 01 58.00 0.4
i 02 14.20
ZOBO 6.85 6 P 02 00.80 -0.4
ARE 7.06 339 eP 02 10.00 6.2X
RTCV 8.72 178 ePc 02 24.40 -1.5
SIV 10.23 48 P 02 53.60 7.4X
PPD 16.28 90 eP 04 05.30 1.1
VAQ 20.18 94 eP 04 47.10 -1.2
YKA 92.71 341 eP 13 21.00 1.1
0.6s 0.70nm 4.1mb
WRA 131.56 210 PKP 19 25.50 3.9X
0.7s 0.40nm
GBA 146.75 101 PKP 19 53.00 3.9X
S.D. = 1.2 on 11 of 15 obs.
MAY 07, 1993 03h 02m 22.88± 1.33s
41.749 N ±10.6km 22.810 E ± 7.8km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 2.1 (SKO).
VAY 0.46 203 iPg 02 32.50 0.2
iSg 02 39.70
KNT 0.59 174 ePg 02 34.50 -0.3
eSg 02 42.88
GRG 0.85 201 ePg 02 39.17 -0.1
eSg 02 51.50
SRS 0.86 137 ePg 02 38.62 -0.9
eSg 02 50.84
SOH 1.01 156 iPg 02 41.98 -0.1
eSg 02 56.02
SKO 1.05 283 ePg 02 42.50 -0.1
iSg 02 50.80
THE 1.12 174 ePg 02 43.46 -0.4
eSg 02 59.70
OUR 1.67 148 ePb 02 52.88 0.6
eSb 03 15.02

07d 03h

PAIG 1.94 160 ePb 02 57.22 1.1
S.D. = 0.7 on 9 of 9 obs.

• MAY 07, 1993 03h 03m 41.26± 1.35s
29.211 S ± 9.0km 68.575 W ±15.0km
DEPTH = 33.0km (normal)
SAN JUAN PROVINCE, ARGENTINA (137)

RTPR 2.10 122 iPc 04 15.30 0.6
RTLL 2.11 178 iPc 04 15.60 0.6
S 04 40.50
RTCB 2.28 185 ePd 04 17.70 0.3
S 04 43.00
ZON 2.33 182 eP 04 17.60 -0.5
CFA 2.41 173 ePd 04 19.20 0.0
S 04 48.50
CYA 2.56 73 ePc 04 21.50 0.2
S 04 48.80
FSA 3.86 37 iP 04 39.50 -0.2
MRA 4.03 143 e(P) 04 41.30 -0.9
S.D. = 0.6 on 8 of 8 obs.

% MAY 07, 1993 03h 28m 53.87± 1.33s
40.674 N ±14.6km 29.976 E ± 8.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

EYL 0.18 128 iPg 28 57.60 -0.3
HRT 0.28 302 iPg 28 59.80 0.1
eSg 29 03.60
GPA 0.46 146 ePg 29 03.40 0.1
YLV 0.47 257 iPg 29 02.50 -1.0
KCT 1.31 252 ePn 29 19.00 0.9
S.D. = 1.0 on 5 of 5 obs.

? MAY 07, 1993 03h 58m 18.13± 0.75s
15.908 N ±11.2km 42.626 E ±18.1km
DEPTH = 10.0km (geophysicist)
4.4mb (6 obs.)
WESTERN ARABIAN PENINSULA (555)

ARO 4.36 177 eP 59 26.00 0.0
ZST 38.43 332 eP 05 48.60 7.1X
GEC2 40.46 331 P 06 01.80 3.2X
0.9s 4.42nm 4.1mb
GKN 40.59 65 P 06 00.00 0.0
KHC 40.72 331 eP 06 04.00 3.4X
GRF 42.23 330 eP 06 18.00 5.1X
BSF 43.37 325 eP 06 23.60 1.1
HAU 43.72 325 eP 06 23.80 -1.3
LBF 44.52 322 eP 06 31.40 -0.3
1.0s 7.60nm 4.5mb
LOR 44.73 323 eP 06 33.40 0.0
0.5s 2.25nm 4.3mb
SSF 44.83 322 eP 06 34.60 0.4
1.0s 6.00nm 4.5mb
HFS 48.91 341 eP 07 12.20 6.2X
0.8s 3.20nm 4.4mb
NB2 50.39 341 P 07 23.70 6.3X
1 0s 3.90nm 4.3mb
S.D. = 0.9 on 7 of 13 obs.

% MAY 07, 1993 05h 26m 16.59± 0.82s
26.230 S ± 7.7km 28.147 E ± 8.9km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.5 (PRE).

SLR 0.51 14 iPd 26 26.20 -0.6
S 26 34.10
PRY 0.92 221 iPc 26 34.00 -0.8
S 26 45.30
KSR 1.18 288 eP 26 39.90 0.7
S 26 51.00
BFT 1.79 73 e(P) 26 49.00 0.4
S 27 18.00
SEK 2.14 192 eP 26 53.80 0.3
S 27 22.20
S.D. = 0.9 on 5 of 5 obs.

• MAY 07, 1993 07h 31m 00.20± 0.99s
8.957 S ±16.2km 75.181 W ±24.8km
DEPTH = 100.0km (geophysicist)
4.2mb (3 obs.)
CENTRAL PERU (116)

ARE 8.28 155 eP 33 13.00 13.3X
ZOBO 10.01 137 P 33 24.10 0.8
LPB 10.22 138 P 33 26.00 0.0
CNCB 10.50 139 eP 33 32.00 2.2
CCH 12.15 134 eP 34 03.00 11.5X
SIV 15.44 118 P 34 46.00 12.1X
SDV 18.29 14 eP 35 11.30 2.0
PPD 26.37 122 eP 36 27.10 -1.9
ULM 61.66 345 ePc 41 11.20 1.6
JAO 62.52 360 eP 41 13.50 -1.7
FCC 69.20 350 eP 42 01.50 3.8X
pP 42 33.50 130kmX
LIC 71.53 80 P 42 12.50 -0.2
TIC 71.62 80 P 42 12.00 -1.3
KIC 71.84 80 P 42 13.60 -1.0
0.7s 15.50nm 4.9mb
FRB 72.67 3 eP 42 18.00 -0.4
YKA 77.45 342 eP 42 44.50 -1.2
0.6s 0.80nm 3.7mb
ETOR 83.28 47 eP 43 14.20 -3.1X
INK 87.18 342 eP 43 37.00 1.1
MBC 88.89 350 ePc 43 45.00 1.1
0.6s 1.00nm 4.1mb
WRA 139.14 225 PKP 50 17.00 -0.9
0.7s 0.80nm
GBA 152.76 78 PKP 50 47.00 6.7X
S.D. = 1.5 on 15 of 21 obs.

MAY 07, 1993 08h 04m 12.80± 0.22s
44.342 N ± 1.7km 7.277 E ± 2.4km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.8 (LDG), 2.4 (GEN).

STV 0.10 161 Pd 04 15.49 -0.2
S 04 16.75
ENR 0.15 138 Pd 04 16.40 -0.1
S 04 18.42
DOI 0.16 352 P 04 17.00 0.4
eSg 04 19.50
PZZ 0.21 323 Pd 04 17.39 0.0
S 04 20.46
TOUF 0.33 184 Pg 04 19.68 0.0
SURF 0.36 293 Pg 04 20.16 -0.1
Sg 04 26.00
AUTN 0.36 163 Pg 04 20.48 0.1
Sg 04 24.92
SAOF 0.41 150 Pg 04 21.20 0.0
Sg 04 26.35
ROB 0.43 96 P 04 22.13 0.6
S 04 27.56
AURF 0.46 175 Pg 04 22.04 -0.1
SBF 0.49 167 Pg 04 22.63 -0.2
BHB 0.50 359 P 04 22.57 -0.4
S 04 28.26
REVF 0.61 174 Pg 04 24.64 -0.4
IMI 0.62 134 Pd 04 25.02 -0.3
S 04 33.00
CALN 0.65 205 Pg 04 25.92 0.0
Sg 04 34.68
RRL 0.68 329 P 04 25.81 -0.6
S 04 34.18
FIN 0.68 101 Pc 04 26.34 0.0
S 04 35.42
CKI 0.72 83 P 04 28.00 1.0
eSg 04 37.00
RSP 0.81 359 P 04 27.47 -1.1
S 04 37.68
FRF 0.90 210 Pg 04 30.10 0.0
Sg 04 41.70
PCP 0.93 77 P 04 31.17 0.6
S 04 42.79
LRG 1.11 217 Pg 04 33.80 0.2
Sg 04 48.90
LSD 1.12 356 P 04 33.29 -0.7
S 04 46.98
LMR 1.15 209 Pn 04 34.80 0.5
Pg 04 35.10
Sn 04 49.20
LPG 1.21 342 Pn 04 35.90 0.3
Sg 04 51.60
LPL 1.24 342 Pg 04 36.30 0.4
Sg 04 52.70
CDR 1.28 239 e(Pg) 04 36.80 0.3
e(Sg) 04 52.50
PGF 2.19 144 Pn 04 48.41 -1.4
BGF 3.82 307 Pn 05 14.10 1.1
S.D. = 0.6 on 29 of 29 obs.

• MAY 07, 1993 08h 21m 19.87± 2.24s
18.131 N ±19.2km 102.791 W ±17.0km
DEPTH = 65.9 ± 14.8 km
3.9mb (2 obs.)
MICHOACAN, MEXICO (57)

CGX 1.69 338 iPc 21 46.81 -1.1
iS 22 09.80
MRX 2.18 44 iP 21 55.63 1.2
iS 22 23.00
ACX 3.07 114 (P) 22 08.52 1.5
III 3.17 85 iP 22 07.00 -1.6
CRX 3.21 66 iP 22 09.00 -0.3
(S) 22 57.50
UNM 3.62 70 (P) 22 21.00 6.0X
AGX 3.76 7 iP 22 18.00 1.4
IIA 4.05 75 iP 22 19.00 -1.7
PPM 4.06 76 iP 22 21.50 0.1
(S) 23 14.00
IIT 4.34 78 (P) 22 34.52 9.3X
IISM 5.21 80 iP 22 38.33 1.3
OXX 5.88 99 iP 22 46.20 -0.5
(S) 23 59.40
LTX 11.18 356 (P) 24 03.13 3.8X
ARUT 21.69 337 eP 26 10.85 3.7X
JAO 41.30 24 eP 29 00.00 -0.3
YKA 45.08 352 eP 29 29.20 -1.6
1.0s 1.20nm 3.7mb
INK 53.77 346 eP 30 38.50 1.1
0.9s 2.00nm 4.1mb
MBC 58.77 355 eP 31 13.50 0.5
S.D. = 1.4 on 14 of 18 obs.

% MAY 07, 1993 08h 24m 41.13± 0.80s
44.357 N ± 7.0km 7.294 E ± 9.3km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.5 (GEN).

STV 0.12 169 P 24 43.99 -0.1
S 24 45.36
ENR 0.16 145 P 24 44.90 0.0
S 24 46.96
PZZ 0.20 317 P 24 45.82 0.2
S 24 49.52
ROB 0.42 98 P 24 49.80 0.1
BHB 0.48 357 P 24 50.80 -0.2
S.D. = 0.2 on 5 of 5 obs.

? MAY 07, 1993 08h 28m 23.54± 0.76s
40.465 N ± 6.1km 21.830 E ± 6.4km
DEPTH = 10.0km (geophysicist)
GREECE (364)

FNA 0.47 313 iPg 28 33.00 -0.1
eSg 28 40.22
LIT 0.62 126 ePg 28 35.24 -0.8
eSg 28 43.82
GRG 0.66 41 ePg 28 36.44 -0.2
eSg 28 45.70
KNT 1.07 49 ePg 28 43.80 0.1
eSg 28 59.18
SOH 1.21 72 ePb 28 46.20 0.0
AGG 1.49 165 ePb 28 50.76 0.4
PAIG 1.52 110 iPb 28 50.84 0.1
OUR 1.65 94 ePb 28 53.12 0.5
S.D. = 0.5 on 8 of 8 obs.

? MAY 07, 1993 08h 33m 13.47± 4.85s
18.178 N ±19.7km 76.699 W ±37.2km
DEPTH = 10.0km (geophysicist)
JAMAICA REGION (86)
MD 2.4 (HOJ).

GWJ 0.11 200 iPd 33 16.49 0.1
S 33 18.91
STH 0.15 228 iPd 33 17.30 0.4
S 33 20.37
HOJ 0.18 195 iPd 33 17.17 -0.4
S 33 19.91
BBJ 0.58 291 Pd 33 25.05 -0.1
S 33 32.31
PCJ 0.62 226 ePd 33 25.67 -0.3
S.D. = 0.4 on 5 of 5 obs.

% MAY 07, 1993 08h 35m 23.56± 0.76s
44.359 N ± 6.6km 7.320 E ± 8.7km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.6 (GEN).

STV	0.12	178	P	35	26.35	-0.2
			S	35	27.77	
ENR	0.15	151	P	35	27.28	0.1
			S	35	29.32	
PZZ	0.21	313	P	35	28.48	0.2
			S	35	31.75	
ROB	0.40	99	P	35	31.85	0.1
BHB	0.48	355	P	35	33.21	-0.2

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

& MAY 07, 1993 09h 07m 47.07s
58.292 N 152.536 W
DEPTH = 30.2km
KODIAK ISLAND REGION (13)
<AEIC>. ML 3.2 (AEIC).

SYI	0.33	13	iP	07	54.27	-0.7
KDC	0.55	178	ePc	07	57.05	-1.2
			eS	08	05.55	
CDD	0.86	318	iP	08	01.53	-1.6
			eS	08	13.88	
AUI	1.14	336	eP	08	05.88	-1.2
			eS	08	21.11	
AUE	1.16	338	eP	08	06.39	-0.8
AUL	1.19	337	eP	08	06.84	-0.9
XLV	1.24	20	eP	08	07.69	-0.7
MCNL	1.30	314	iP	08	08.00	-1.2
CNPM	1.41	28	eP	08	09.70	-1.2
BRLK	1.71	29	eP	08	13.45	-1.7
			eS	08	35.79	
PDB	1.73	331	eP	08	13.64	-1.8
			eS	08	34.82	
INE	1.80	352	eP	08	14.99	-1.6
			eS	08	37.92	
INW	1.81	350	eP	08	15.31	-1.4
			eS	08	38.71	
RS1	2.18	357	eP	08	20.53	-1.6
RSO	2.18	357	eP	08	20.27	-1.9
RS2	2.18	357	eP	08	20.42	-1.7
RDW	2.20	356	eP	08	20.63	-1.8
REF	2.21	358	eP	08	20.85	-1.7
			eS	08	47.98	
NCT	2.29	355	eP	08	21.11	-2.4
RDT	2.29	2	eP	08	22.72	-0.9
DFR	2.31	358	eP	08	22.11	-1.8
SEW	2.41	40	eP	08	22.06	-3.2
SLKM	2.52	27	eP	08	24.22	-2.6
NKA	2.55	15	eP	08	27.54	0.4
MPA	2.74	35	eP	08	27.20	-2.6
SPU	2.91	5	eP	08	29.97	-2.4
CKL	2.92	2	eP	08	30.51	-2.0
CKT	2.92	3	eP	08	30.76	-1.8
CKN	2.95	3	eP	08	31.34	-1.5
CPAM	2.98	4	eP	08	31.41	-2.0
BGL	2.98	1	eP	08	31.61	-1.8
CP2	2.99	3	eP	08	31.02	-2.6
CRP	2.99	4	eP	08	31.14	-2.5
PTE	3.14	33	eP	08	32.64	-2.9
SVW	3.23	332	eP	08	33.83	-3.1
SUA	3.31	15	eP	08	36.61	-1.5
PMS	3.32	26	P	08	35.40	-2.8
PLRM	3.73	26	eP	08	41.30	-2.6
PMR	3.73	26	(P)	08	42.82	-1.1
SKT	3.73	7	eP	08	41.84	-2.2
HIN	3.74	53	eP	08	40.66	-3.5
GHO	3.93	26	eP	08	45.05	-1.9
SML	4.11	29	eP	08	46.85	-2.5
CVA	4.14	54	eP	08	45.61	-4.1
VLZ	4.24	45	eP	08	47.88	-3.3
SCM	4.41	34	eP	08	50.50	-3.2
KLU	4.63	43	eP	08	53.13	-3.6
TTA	4.96	341	eP	08	56.66	-4.8
FBA	7.00	17	eP	09	24.86	-5.3
YKA	19.00	61	eP	12	04.20	-4.3
	0.6s		0.30nm			2.7mb
MBC	21.52	21	eP	12	34.00	-1.1

51 obs. associated

? MAY 07, 1993 09h 17m 08.87± 0.77s
7.065 N ±24.8km 73.315 W ±28.9km
DEPTH = 146.1 ± 16.2 km
4.2mb (1 obs.)
NORTHERN COLOMBIA (99)

BMG	0.24	88	iPc	17	30.50	0.2
BOG	2.54	197	eP	17	51.00	-0.1
			eS	18	20.00	
SDV	3.21	56	iPnc	17	59.50	-0.1
			iSn	18	37.20	
TOV	4.41	52	ePn	18	15.30	0.0
YKA	62.97	340	eP	27	20 60	-1.2
	0.6s		1.80nm			4.2mb
INK	72.74	340	eP	28	23.50	1.1
M8C	73.53	350	eP	28	27.00	0.1
WB2	150.27	242	ePKP	36	42.40	2.9X
	0.5s		1.60nm			

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

? MAY 07, 1993 09h 25m 17.40± 0.85s
33.716 S ±10.1km 70.492 W ±12.2km
DEPTH = 80.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)
MD 3.4 (SAN).

PCH	0.10	349	iP	25	29.39	0.1
			iS	25	41.57	
CHCH	0.25	212	iP	25	29.61	-0.1
			iS	25	41.72	
TACH	0.38	279	iP	25	30.89	0.5
			iS	25	43.91	
FCH	0.42	24	iP	25	30.91	-0.2
			iS	25	45.04	
PEL	0.59	344	iP	25	32.64	0.4
			iS	25	46.40	
LNV	0 80	252	iP	25	33.94	-0.4
			iS	25	49.07	
ROCH	0 86	330	iP	25	35.19	-0.1
			iS	25	51.95	
LCCH	0.93	285	iP	25	35.85	0.0
			iS	25	52.84	
JACH	1 03	355	iP	25	36.93	-0.3
			iS	25	54.67	

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

% MAY 07, 1993 10h 00m 48.20± 0.84s
44.374 N ± 7.7km 7.417 E ± 8.8km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.6 (GEN).

STV	0.15	207	P	00	52.27	0.6
			S	00	54.69	
ENR	0.15	179	P	00	52.31	0.6
			S	00	55.15	
PZZ	0.26	300	P	00	53.64	-0.1
			S	00	57.85	
ROB	0.34	104	P	00	56.25	1.1
			S	01	02.93	
BHB	0.48	347	P	00	57.76	-0.2
			S	01	04.21	
IMI	0.58	144	P	00	57.99	-1.9
			S	01	05.35	

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

% MAY 07, 1993 10h 13m 35.82± 1.35s
45.444 N ±21.3km 25.416 E ±10.3km
DEPTH = 10.0km (geophysicist)
ROMANIA (358)

CMP	0.32	237	ePd	13	43.00	0.5
MTUR	0.33	229	iPc	13	42.00	-0.7
MLR	0.37	82	iPc	13	42.50	-1.1
TNR	0.83	285	ePc	13	44.00	-7.9X
ISR	0.85	111	eP	13	53.00	0.7
VRI	1.01	65	eP	13	55.50	0.5
GZR	1.86	269	ePd	14	11.00	3.0X

S.D. = 1.2 on 5 of 7 obs.

• MAY 07, 1993 10h 16m 31.05± 1.02s
24.207 S ±11.1km 179.771 W ±15.3km
DEPTH = 500.0km (geophysicist)
4.6mb (10 obs.)
SOUTH OF FIJI ISLANDS (171)

DZM	12.86	277	iPc	19	23.50	3.7X
MNG	16.84	193	eP	19	59.40	-0.4
ORZ	17.79	199	P	20	10.30	1.3
THZ	18.54	197	eP	20	16.90	0.5
DSZ	18.85	200	eP	20	20.40	1.1
KHZ	18.99	195	eP	20	20.00	-0.6
	0.4s		8.00nm			4.7mb
LTZ	19.66	198	eP	20	25.90	-1.3
	0.4s		15.00nm			5.0mb
ARMA	26.11	250	eP	21	27.00	1.0
	0.6s		5.00nm			4.2mb
CAN	29.17	240	iPd	21	53.10	0.4
BWA	29.44	242	iPd	21	53.30	-1.7
CTA	31.69	271	iPd	22	15.50	1.2
	0.7s		10.27nm			4.5mb
STK	34.81	249	eP	22	40.90	0.5
	0.4s		7.40nm			4.6mb
ASPA	42.19	261	iPd	23	41.00	0.3
	0.3s		10.80nm			4.9mb
WB2	42.58	266	iPc	23	43.50	-0.3
	0.4s		25.20nm			5.1mb
WRA	42.59	266	P	23	44.20	0.3
	0.4s		5.60nm			4.4mb
FORT	46.40	250	eP	24	12.60	-0.8
	0.5s		8.00nm			4.5mb
WARB	48.24	256	eP	24	26.40	-1.1
	0.3s		5.00nm			4.4mb
MBL	55.43	260	eP	25	19.00	-0.8
NANU	58.92	257	iPd	25	43.90	0.3
NB2	142.41	351	PKP	35	07.30	0.1
	0.7s		1.60nm			
HFS	142.89	349	ePKP	35	08.00	0.1
	0.4s		8.50nm			

S.D. = 0.9 on 20 of 21 obs.

MAY 07, 1993 10h 53m 20.30± 1.00s
32.328 S ± 4.7km 71.794 W ± 9.9km
DEPTH = 10.0km (geophysicist)
NEAR COAST OF CENTRAL CHILE (135)
MD 4.2 (SAN).

ROCH	0.92	134	iP	53	38.14	0.1
			iS	53	49.50	
JACH	1.07	109	iP	53	40.68	0.1
			iS	53	54.57	
LCCH	1.16	171	iP	53	41.66	-0.3
			iS	53	55.37	
PEL	1.24	131	iP	53	43.22	-0.1
			iS	53	58.66	
SAN	1.47	140	iP	53	46.82	-0.1
			iS	54	05.03	
TACH	1.50	152	iP	53	47.18	-0.2
			iS	54	05.04	
FCH	1.61	129	iP	53	48.88	-0.3
			iS	54	08.98	
LNV	1.65	169	iP	53	49.21	-0.2
PCH	1.68	140	iP	53	50.00	0.1
			iS	54	11.13	
CHCH	1.87	149	iP	53	52.87	0.3
			iS	54	15.97	
MDZ	2.55	103	eP	54	08.20	5.8X
			iS	54	39.90	
ZON	2.76	74	eP	54	09.60	4.1X
			eS	54	47.60	
RTCV	2.80	81	ePc	54	09.30	3.2X
RTRS	2.94	44	ePd	54	11.80	4.0X
			S	54	54.00	
RFA	3.70	132	eP	54	19.70	0.9
			(S)	55	19.40	
RTPR	4.95	67	ePc	54	37.40	1.0
MRA	5.15	93	ePd	54	39.00	-0.2
			S	55	42.60	
CYA	6.47	55	eP	54	56.40	-1.5
			S	56	13.70	
FSA	8.01	41	e(P)	55	25.00	5.5X
CNCB	15.83	14	P	57	12.10	6.7X
LPB	16.08	13	P	57	15.00	6.5X
ZOBO	16.33	13	Pc	57	12.40	0.5
SIV	18.96	33	P	57	54.60	10.5X

S.D. = 0.6 on 15 of 23 obs.

? MAY 07, 1993 11h 33m 06.85± 5.62s
42.400 N ±46.7km 23.879 E ±18.4km
DEPTH = 10.0km (geophysicist)
BULGARIA (359)

SRS	1.30	190	eP	33	31.72	0.8
			eS	33	45.32	
KNT	1.44	211	eP	33	33.32	0.4
			eS	33	49.46	
SOH	1.63	194	eP	33	35.12	-0.5

07d 11h

			eS	33 52.78			1.0s	8.20nm	4.1mb	SMF	49.82	304 eP	55 02.30	-0.1	STK	94.83	126 P	59 37.09	9.7X
OUR	2.06	178 eP	33 41.00	-1.0			0.9s	21.95nm	4.6mb		0.9s	21.95nm	4.6mb		RSSD	99.53	356 P	59 50.07	1.1
ALN	2.21	132 eP	33 44.44	0.3												0.4s	1.10nm	4.6mb	
S.D. = 1.0 on 5 of 5 obs.															ZOBO	138.59	288 PKP	05 23.00	-8.7X
										SSF	49.94	304 eP	55 03.10	-0.3	LPB	138.73	288 ePKP	05 33.00	1.2
MAY 07, 1993 11h 46m 33.30± 0.19s											1.0s	17.60nm	4.4mb		CNCB	138.80	287 PKP	05 32.50	0.4
36.606 N ± 5.2km 71.031 E ± 4.3km										AVF	50.11	304 eP	55 04 50	-0.1	S.D. = 0.9 on 85 of 96 obs.				
DEPTH = 252.6km (6 depth phases)											1.0s	27.80nm	4 6mb						
4.7mb (54 obs.)										MAF	50.78	304 eP	55 09.90	0.2					
AFGHANISTAN-TAJIKISTAN BORD REG.(717)											1.1s	22.95nm	4.5mb		? MAY 07, 1993 11h 47m 01.25± 1.98s				
										TCF	51.00	304 eP	55 11.50	0.1	45.738 N ±17.7km 25.124 E ± 8.2km				
MAIO	9.30	272 iPnd	48 42.40	-1.6							1.1s	31.25nm	4.7mb		DEPTH = 14.4 ± 6.6 km				
	0.7s	39.71nm	4.6mb							LSF	51.46	304 eP	55 14.40	-0.5	3.6mb (1 obs.)				
		eSn	50 14.00								0.9s	15.55nm	4 4mb		ROMANIA				(358)
GKN	14.34	123 P	49 45.60	-1.2						CAF	51.46	302 eP	55 15.10	0.2					
DMN	14.91	123 P	49 52.80	-1.0							0.9s	12.60nm	4.3mb		CMP	0.47	187 iPc	47 11.00	0.2
KKN	14.91	122 P	49 52.40	-1.4						RJF	51.73	303 eP	55 17.20	0.4	MTUR	0.51	185 iPc	47 12.10	0.5
PKI	15.14	122 P	49 55.60	-1.1							0.8s	10.35nm	4.3mb		TNR	0.60	262 iPd	47 13.00	0.0
GUN	15.25	120 P	49 56.80	-1.2						LDF	51.93	307 eP	55 17.60	-0.7	MLR	0.63	113 iPc	47 12.60	-0.9
POO	18.17	171 eP	50 23.50	-6.3X							1.0s	24.60nm	4.6mb				e	50 04.00	
TAB	19.69	282 eP	50 53.00	7.8X						FLN	52.12	307 eP	55 18.90	-0.7	VRI	1.13	83 iPc	47 25.90	3.9X
HYB	20.24	159 eP	50 53.50	2.9							1.1s	33.20nm	4.7mb				e	53 03.00	
GBA	23.61	164 P	51 25.00	1.9						LPO	52.13	302 eP	55 19.70	-0.1	ISR	1.17	120 iPc	47 23.80	1.1
	0.6s	18.00nm	4 8mb								1.1s	17.55nm	4.4mb		DRA	1.22	210 ePc	47 29.00	5.4X
		S	56 19.00							EKA	52.23	316 Pd	55 20.10	-0.2	PTT	1.48	36 eP	47 38.00	10.6X
MJMA	24.41	251 eP	51 31.00	0.5							1.1s	18.60nm	4.4mb		BUC1	1.53	155 eP	47 29.00	0.9
LZH	26.37	81 eP	51 51.00	2.6						LFF	52.36	302 eP	55 21.50	0.1	DEV	1.56	276 iPc	47 39.50	11.0X
	1.5s	16.00nm	4.4mb								1.0s	18.80nm	4.5mb		GZR	1.68	259 iPc	47 40.00	9.6X
OBN	29.85	319 iPc	52 19.00	0.0						GRR	52.46	307 eP	55 21.40	-0.7	PPE	1.80	74 eP	47 41.00	9.0X
	0.9s	84.00nm	5.4mb								1.0s	29.00nm	4.7mb		CFR	2.20	103 eP	47 22.00	-15.8X
		ipP	53 32.00	398kmX						MFF	52.48	305 eP	55 21.70	-0.6	BMR	2.24	331 ePd	47 53.00	14.7X
		esP	54 09.00								0.9s	10.80nm	4.3mb		BZS	2.46	268 ePc	47 19.00	-22.5X
		ePcP	55 00.00							EPF	53.22	300 eP	55 27.10	-0.7	SSR	2.54	251 iPd	48 00.00	17.4X
		eS	56 57.00								0.7s	4.65nm	4.0mb		CEI	2.68	318 eP	48 22.00	37.4X
CHG	30.25	118 eP	52 23.00	0.2						DAG	54.66	344 eP	55 37.40	-0.4	SKO	4.61	217 e(Pn)	48 15.30	3.2X
		e	53 14.30	260km							0.7s	17.81nm	4.7mb		SRS	4.75	194 ePn	48 13.14	-0.9
BDT	31.34	120 eP	52 27.00	-5.3X						GUD	57.20	299 eP	55 56.30	0.0	KNT	4.85	200 ePn	48 16.50	1.0
	0.6s	17.90nm	4.9mb							EPLA	58.78	299 eP	56 07.70	0.5			eSn	48 46.82	
NST	33.21	121 eP	52 50.00	1.5						MBC	67.23	3 ePc	57 02.30	0.5	ALN	4.88	172 ePn	48 14.80	-1.1
MLR	34.75	299 ePd	53 04.50	3.0X							0.7s	63.00nm	5 5mb				eSn	48 44.22	
KAF	37.55	327 iP	53 25.00	0.5						BUL	69.21	223 iPd	57 14.00	-0.9	GRG	5.17	204 ePn	48 21.60	1.6
	0.9s	43.50nm	5.0mb								1.0s	36.50nm	5.1mb		OUR	5.47	189 ePn	48 21.68	-2.4
NUR	37.76	324 iP	53 26.80	0.6						IMA	72.01	18 iPc	57 30.52	-0.5	KSP	7.79	314 eP	49 13.00	16.2X
	0.6s	68.40nm	5.4mb								0.8s	26.48nm	5.0mb				e	53 54.50	
SDF	39 76	335 iP	53 42.40	-0.2						NANU	72.30	137 iPc	57 33.20	0.2			e	55 33.80	
KEV	40.71	338 iP	53 51.30	0.9							0.4s	12.00nm	5.0mb		YKA	67 41	341 eP	58 03.00	5.3X
	0.7s	40.00nm	4.9mb							MBL	73.64	133 iPc	57 40.90	0.0		0.8s	0.40nm	3.6mb	
UPP	41.00	322 iPc	53 53.00	0.1							0.4s	59.00nm	5.7mb		S.D. = 1.5 on 11 of 25 obs.				
IPM	42.11	132 ePc	54 03.50	1.0						INK	73 80	9 ePc	57 42.50	1.4					
	0.5s	23.70nm	4.9mb								0.5s	20.00nm	5.1mb		MAY 07, 1993 12h 31m 07.27± 0.79s				
PRU	42 25	307 P	54 04.00	0.8						TTA	73.92	20 eP	57 41.82	-0.2	39.557 N ± 6.6km 28.808 E ± 6.4km				
		e	55 49.00	601kmX							0.9s	13.55nm	4.7mb		DEPTH = 10.0km (geophysicist)				
BRG	42.58	308 iP	54 06.80	1.0								epP	58 39.97	248km	TURKEY				(366)
	1.2s	22.00nm	4.4mb							FBA	74.36	16 iPc	57 44.45	0.0	ML 3.0 (ISK).				
		i	54 10.00	11kmX							0.8s	45.09nm	5.3mb						
GEC2	42.89	305 P	54 09.50	1.0								ipP	58 44.18	255km	KCT	0.77	333 iPg	31 22.30	-0.1
	0.9s	1.66nm	3.4mb X							KIC	74.82	267 P	57 47.40	-0.5			eSg	31 35.80	
		e	54 12.80	11kmX						TIC	74.87	267 P	57 47.60	-0.6	BNT	1.05	320 ePn	31 27.30	0.2
KHC	42.94	306 eP	53 53.00	-15.9X						FRB	74.97	343 ePc	57 47.70	-0.2	EDC	1.07	318 iPn	31 28.00	0.6
		e	54 10.00	68kmX							0.7s	9.00nm	4.6mb		YLV	1.10	23 iPn	31 27.30	-0.6
		e	55 36.00							LIC	75.13	267 P	57 48.80	-0.8	GBZT	1.32	21 ePn	31 32.00	0.3
HFS	43.00	322 eP	54 08.50	-0.6						SVW	75.48	21 ePc	57 51.49	0.6			eSg	31 51.80	
	0.7s	64.50nm	5.1mb								0.8s	3.03nm	4.1mb		KHL	1.35	155 ePn	31 32.00	-0.2
CLL	43.14	309 iPd	54 09.80	-0.6						RSO	76.83	21 eP	57 56.20	-2.4	GPA	1.37	57 ePn	31 33.00	0.6
	1.6s	20.00nm	4.2mb							PMR	76.86	18 eP	57 57.75	-0.7	HRT	1.42	27 iPn	31 33.30	0.1
TRO	43.18	336 eP	54 10.80	0.3							0.8s	24.95nm	5.0mb		EYL	1.45	45 ePn	31 33.70	0.1
YAK	43.88	36 eP	54 15.50	-0 6						MEEK	77 23	137 eP	58 00.00	-1.0	CTT	1.61	350 ePn	31 34.80	-1.1
	0.8s	104.00nm	5 2mb							SLKM	77.49	20 ePc	58 01.21	-0.8	S.D. = 0.6 on 10 of 10 obs.				
		e(S)	00 28 00							KLU	77.74	17 iPc	58 03.72	0.3					
MOX	44.07	308 eP	54 18.90	1.1						BALM	78 96	16 iPd	58 10.48	0.4	MAY 07, 1993 12h 50m 42.41± 0.37s				
	2.0s	35.00nm	4.3mb									epP	59 09.10	246km	52.157 N ± 3.4km 2.500 W ± 3.2km				
NB2	44 31	323 P	54 19.00	-0.6						KDC	79.15	22 eP	58 10.93	0.0	DEPTH = 10.0km (geophysicist)				
	0.8s	45 60nm	4.9mb								0.6s	20.07nm	5.0mb		UNITED KINGDOM				(533)
NAO	44.48	323 P	54 18.90	-2.0						WRA	82.03	122 P	58 26.00	-0.6	ML 2.3 (BGS).				
KONO	45.02	321 eP	54 25.50	0.3							0.8s	37.50nm	5.2mb						
BSF	47.60	305 eP	54 45.50	-0.1						WB2	82 03	122 iPd	58 25.70	-0.9	HAE	0.12	194 iPgc	50 46.40	1.0
	0.8s	12.75nm	4.3mb								0.6s	40.90nm	5.3mb		HBL2	0.35	252 iPgc	50 50.00	0.4
HAU	47.86	305 eP	54 47.50	0.0								ipP	59 26.70	255km	HTR	0.48	261 iPgc	50 52.30	0.1
SBF	48.03	299 eP	54 49.10	0.2						FCC	84.18	352 ePc	58 42.00	5.2X	HGH	0.55	200 ePg	50 53.30	-0.3
	1.2s	40.45nm	4.6mb							ASPA	84.29	125 iPc	58 37.20	-0.8	HCG	0.73	284 iPgc	50 57.10	0.3
LPG	48.11	302 eP	54 50.40	0.6							0.9s	30.90nm	5.1mb				eSg	51 07.20	
	0.9s	12.30nm	4.2mb									epP	59 37.80	252km	CWF	0.93	51 ePnc	50 59.90	-0.3
LPL	48.12	302 eP	54 50.20	0.4						JAQ	85.48	341 eP	58 44.00	0.5			eSn	51 12.00	
	0.9s	13.10nm	4.3mb							FORT	85.72	134 eP	58 44.80	0.0	KWE	0.95	25 ePn	51 00.80	0.3
FRF	48.66	299 eP	54 53.60	0.0						CBM	89.13	333 eP	59 04.32	3.2X	WFB	1.08	300 ePn	51 03.20	0.5
	1.0s	11.20nm	4.2mb							GAC	92.68	337 eP	59 19.50	2.1	HSA	1.10	249 ePn	51 02.90	-0.2
LBF	49.64	304 eP	55 00.70	-0.5						ULM	92.75	352 eP	59 21.00	3.3X	HEX	1.36	217 ePn	51 07.30	-0.1
										EEO	92.89	340 eP	59 22.50	4.1X	KUF	1.37	70 ePn	51 07.50	0.0

YLL	1.42	315	ePn	51 08.30	0.1
HPE	1.42	262	ePn	51 08.20	-0.1
YRE	1.44	306	ePn	51 08.60	0.1
YRH	1.47	298	ePnd	51 09.00	0.1
HTL	1.70	228	ePn	51 11.90	-0.3
			eSn	51 33.40	
ECP	2.38	272	eP	51 22.00	-0.1
			eS	51 52.90	
ECB	2.64	276	eP	51 24.70	-1.0
			eS	51 59.80	
DLF	2.70	297	eP	51 26.00	-0.7
			eS	51 57.40	
DMU	3.18	305	eP	51 33.60	0.2
			eS	52 11.20	

S.D. = 0.5 on 20 of 20 obs.

• MAY 07, 1993 12h 52m 03.38± 1.47s
29.798 S ± 9.1km 70.148 W ±15.1km
DEPTH = 181.6 ± 29.6 km
CENTRAL CHILE (136)

RTCB	2.05	146	ePd	52 40.70	-0.8
			S	53 14.60	
RTLL	2.10	137	ePc	52 41.80	-0.3
			S	53 15.50	
ZON	2.15	144	eP	52 44.00	1.3
CFA	2.44	138	ePd	52 46.00	0.1
			S	53 21.50	
RTPR	3.19	100	iPc	52 55.00	0.1
CYA	4.04	72	ePd	53 05.00	-0.7
			S	53 55.00	
TCA	5.03	109	iPd	53 19.50	0.9
			S	54 21.00	
RFA	5.16	164	eP	53 19.60	-0.6
FSA	5.20	46	e(P)	53 20.30	-0.4
ANT	6.07	358	eP	53 32.50	0.4

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

• MAY 07, 1993 13h 23m 26.54± 1.31s
23.611 S ± 9.5km 17.343 E ±14.5km
DEPTH = 10.0km (geophysicist)
NAMIBIA (578)
ML 3.7 (PRE).

WIN	1.06	348	iPd	23 47.30	0.6
			S	24 00.50	
POF	6.20	158	eP	24 59.90	-0.4
			S	26 34.00	
KSR	8.97	106	e(P)	25 40.90	1.6
			S	27 15.00	
SUR	9.26	161	eP	25 49.00	5.8X
			S	27 28.00	
FRS	9.39	132	eP	25 37.10	-7.8X
			S	27 20.70	
BLF	9.64	127	eP	25 44.00	-4.4X
			S	27 15.00	
PRY	9.74	112	eP	25 51.50	1.5
			S	27 23.50	
TUH	9.78	171	e(P)	26 22.00	31.8X
			(S)	28 05.00	
CER	9.86	170	eP	25 51.00	-0.4
			(S)	27 34.00	
SLR	10.17	104	eP	25 56.40	0.6
			S	27 29.00	
BUL	11.02	74	iPnc	26 04.70	-2.7
			iSn	28 02.50	
			i	28 16.00	
			iSg	29 09.50	
BFT	11.73	103	eP	26 16.90	-0.4
			S	28 20.50	
GRM	12.62	142	eP	26 28.50	-0.4
CIR	13.43	82	iPn	26 15.00	-24.7X
			iSn	28 38.00	
			iSg	29 35.50	
MTD	14.99	66	iP	27 02.40	2.1X
			iSn	29 42.50	
			iLg	31 15.50	

S.D. = 1.5 on 9 of 15 obs.

MAY 07, 1993 13h 59m 59.66± 0.31s
44.354 N ± 2.5km 7.292 E ± 3.5km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.2 (LDG), 2.1 (GEN).

STV	0.11	168	P	00 02.14	-0.5
			S	00 03.40	
ENR	0.16	144	P	00 03.05	-0.3
			S	00 05.11	
PZZ	0.20	318	P	00 04.03	-0.2
			S	00 07.35	
ROB	0.42	98	P	00 08.79	0.5
			S	00 14.54	
BHB	0.49	358	P	00 09.29	-0.3
			S	00 15.96	
SBF	0.50	168	Pg	00 09.50	-0.4
			Sg	00 15.80	
IMI	0.62	136	P	00 11.68	-0.5
			S	00 19.80	
RRL	0.67	328	P	00 12.75	-0.4
			S	00 21.74	
FIN	0.67	102	P	00 13.03	0.0
			S	00 22.50	
RSP	0.80	358	P	00 14.17	-1.1
			S	00 24.22	
PCP	0.92	78	P	00 17.88	0.6
			S	00 29.91	
FRF	0.92	211	Pn	00 17.50	0.3
			Pg	00 17.90	
			Sg	00 28.30	
LSD	1.11	355	P	00 21.36	0.7
			S	00 34.80	
LRG	1.12	217	Pg	00 21.40	0.7
			Sg	00 36.30	
LMR	1.17	209	Pg	00 21.60	0.2
			Sg	00 35.80	
LPG	1.21	342	Pg	00 22.80	0.5
			Sg	00 38.20	
LPL	1.23	341	Pg	00 22.80	0.1
			Sg	00 39.10	

S.D. = 0.5 on 17 of 17 obs.

% MAY 07, 1993 14h 25m 52.80± 0.66s
26.426 S ± 5.7km 27.400 E ± 7.0km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.9 (PRE).

PRY	0.50	173	eP	26 03.20	0.3
			S	26 10.10	
KSR	0.72	321	eP	26 07.40	0.2
			S	26 13.00	
SLR	1.05	49	eP	26 12.10	-1.1
			S	26 23.90	
SEK	1.90	174	eP	26 26.00	-0.3
			S	26 50.10	
SWZ	2.00	247	eP	26 27.90	0.1
			S	26 49.40	
BFT	2.49	73	eP	26 36.00	1.2
			S	27 05.50	
BLF	2.88	202	eP	26 40.00	-0.4
			S	27 14.50	

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

MAY 07, 1993 14h 57m 08.16± 0.43s
43.074 N ± 5.6km 0.753 W ± 3.3km
DEPTH = 10.0km (geophysicist)
PYRENEES (378)
ML 1.0 (STR).

ATE	0.04	73	Pg	57 09.85	-0.4
			Sg	57 10.79	
ISSF	0.06	214	Pg	57 10.29	-0.2
			Sg	57 11.64	
MADF	0.09	326	Pg	57 10.70	0.0
			Sg	57 12.20	
ESCF	0.13	88	Pg	57 11.25	-0.1
			Sg	57 13.56	
LHE	0.19	149	Pg	57 12.57	0.2
			Sg	57 15.73	
BOH	0.19	279	Pg	57 12.59	0.1
			Sg	57 15.67	
ELYF	0.20	299	Pg	57 12.65	0.1
			Sg	57 15.77	
OGE	0.23	65	Pg	57 13.28	0.3
JAU	0.28	97	Pg	57 14.24	0.1
			Sg	57 18.89	
EPF	0.80	93	Pn	57 23.80	0.0
			Pg	57 24.80	
			Sg	57 35.70	
LPO	2.13	40	Pg	57 49.40	5.1X
			Sg	58 14.70	
RJF	2.76	35	Pg	58 01.60	8.3X
			Sg	58 34.70	

S.D. = 0.2 on 10 of 12 obs.

• MAY 07, 1993 15h 02m 21.62± 0.62s
11.702 S ±13.8km 14.256 W ±14.5km
DEPTH = 10.0km (geophysicist)
4.9mb (19 obs.) 4.9Msz (11 obs.)
ASCENSION ISLAND REGION (408)

LIC	20.04	28	P	06 58.30	0.5
	Z 20s		2.50um		4.6Msz
KIC	20.29	28	P	07 00.00	-0.4
	0.9s		35.00nm		4.7mb
TIC	20.41	27	P	07 00.40	-1.3
PPD	36.83	249	eP	09 32.50	0.5
BLF	41.42	121	e(P)	10 30.00	19.7X
SLR	42.44	115	iPc	10 04.00	-14.7X
	1.5s		40.00nm		
	Z 20s		8.00um		5.6Msz
TIO	42.91	9	iP	10 24.20	1.8
AVE	45.22	8	eP	10 41.00	0.2
			i	10 52.50	
SIV	45.58	259	(P)	11 03.00	18.9X
EJIF	48.60	9	eP	11 09.30	1.9
EVAL	49.53	8	eP	11 18.50	4.0X
ELUO	49.89	10	eP	11 14.00	-3.4X
CCH	50.41	257	eP	11 28.00	6.0X
FSA	50.70	246	e(P)	11 22.00	-1.7
NAI	51.69	82	eP	11 40.00	8.3X
	Z 20s		0.35um		4.4Msz
ZOBO	52.35	258	P	11 36.00	-1.0
	Z 21s		0.50um		4.5Msz
			LR	27 44.00	
MDZ	54.10	238	eP	11 51.20	2.1
			i	11 55.40	
ECRI	55.11	11	eP	11 38.00	-18.3X
ARE	55.57	258	eP	12 05.50	5.1X
LPO	57.84	13	eP	12 15.60	-0.1
	1.2s		20.85nm		5.0mb
LRG	58.03	18	eP	12 17.10	0.1
	1.2s		27.05nm		5.2mb
FRF	58.21	18	eP	12 17.90	-0.4
	1.0s		9.60nm		4.8mb
RJF	58.50	13	eP	12 20.10	-0.2
	1.2s		22.90nm		5.1mb
	Z 20s		0.70um		4.8Msz
SBF	58.72	18	eP	12 21.80	-0.2
	1.1s		19.55nm		5.1mb
LSF	59.40	13	eP	12 26.70	0.1
TCF	59.59	13	eP	12 28.10	0.2
	1.1s		16.10nm		5.1mb
MAF	59.61	13	eP	12 28.50	0.5
SDV	59.67	288	eP	12 28.00	-1.2
LPG	60.01	17	eP	12 31.60	0.5
	1.0s		11.60nm		5.0mb
LPL	60.02	17	eP	12 31.40	0.3
	0.9s		10.50nm		5.0mb
BOB	60.17	19	P	12 32.50	0.5
SMF	60.31	14	eP	12 32.60	-0.2
SSF	60.62	14	eP	12 34.80	-0.1
	0.9s		10.15nm		5.0mb
LBF	60.66	14	eP	12 34.80	-0.4
	1.1s		10.25nm		4.9mb
HAU	62.20	15	eP	12 45.00	-0.6
	1.1s		14.15nm		5.1mb
SKO	62.68	29	iP	12 49.30	0.4
	Z 16s		1.02um		5.1MszX
			i	12 55.30	
			LR	40 23.00	
CDF	62.82	16	eP	12 49.10	-0.7
FVI	62.89	21	P	12 51.80	1.7
PTJ	63.46	23	eP	12 40.40	-13.6X
GRF	65.10	18	eP	13 04.00	-0.6
	Z 21s		0.60um		4.8Msz
GEC2	65.15	20	P	13 04.10	-1.0
	0.9s		1.42nm		4.2mb
			e	13 09.30	
			e	15 33.80	
KHC	65.36	20	eP	13 06.00	-0.3
	Z 18s		1.30um		5.2Msz
	N 18s		0.50um		
	E 18s		0.70um		
			e	13 34.50	
			e	15 27.00	
ZST	65.80	22	eP	13 09.20	0.1
SRO	65.95	23	eP	13 13.10	3.1X
MOX	66.07	18	eP	13 11.50	0.7
	Z 18s		0.70um		4.9Msz

07d 15h

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                    eS     22 08.00
PRU     66.41   20 eP     13 11.00   -2.0
      Z  17s       1.00um            5.1MszX
      N  14s       0.30um
      E  15s       0.60um
                   e      13 28.00
BRG     66.98   19 eP     13 22.00    5.4X
CLL     67.07   18 eP     13 26.00    8.9X
      Z  18s       1.00um            5.1Msz
EKA     67.43    7 P      13 28.00    8.7X
       1.1s       11.00nm           5.0mb
MLR     67.48   29 eP     13 17.50   -2.5
KSP     67.73   20 eP     13 25.50    4.1X
SPC     67.82   24 eP     13 22.70    0.5
VRI     68.13   30 eP     13 22.50   -1.4
                   e      19 32.00
LMN     73.09  326 eP     13 55.00    1.0
HFS     75.01   14 eP     14 04.60   -0.2
       0.6s       1.60nm            4 2mb
      Z  17s     336.00um            7.7MszX
                   LR     40 25.00
NB2     75.27   12 P      14 06.70    0.4
       0.9s       2.50nm            4.3mb
NUR     78.35   19 eP     14 24.00    0.6
       0.5s       2.00nm            4.4mb
SPA     78.38  180 iPc    14 23.90    0.1
       0.8s       9.17nm            4.9mb
OBN     79.02   27 eP     14 37.00    9.8X
      Z  18s       1.20um            5.3Msz
      N  20s       0.60um
      E  20s       0.70um
                   e      14 53.00
                   e      15 40.00
                   LQ     42 00.00
GAC     79.24  321 eP     14 36.00    7.4X
EEO     81.89  321 eP     14 51.00    8.4X
JAQ     83.38  328 eP     14 49.00   -1.2
MAIO    84.11   51 eP     14 56.00    1.6
                   eS     25 36.00
SDF     84.20   15 eP     15 01.00    6.9X
FRB     85.77  339 eP     15 03.50    1.5
       1.0s       9.00nm            4.9mb
QUE     88 35   59 eP     15 19.50    4.0X
DAG     88.35  359 eP     15 06.10   -8.1X
FCC     94 70  329 eP     15 55.00   11.0X
BJI    128.08   48 ePKP   21 36.00    6.1X
      Z  20s       0.60um            5.3Msz
ASPA   133.04  139 ePKP   21 47.10    7.2X
       1.2s       4 50nm
WRA    135.90  135 PKP    21 42.30   -3.1X
       0.8s       0.40nm
MAT    144.98   40 ePKP   22 04.00    2.8X
       0.9s       6.72nm
DZM    146.43  181 iPKPd  22 11.50    7.4X
     S.D. = 1.0   on  46 of  73 obs.
--------------------------------------
?  MAY  07, 1993  15h 24m 03.69± 5.66s
   20.394 S ±50.3km  172.909 W ±75.2km
   DEPTH = 210.0km  (geophysicist)
   4.5mb (  8 obs.)
 TONGA ISLANDS REGION              (174)

DZM     19.32  261 iPc    28 17.00    1.9
BRS     32.07  251 iPd    30 11.20   -1.7
       0.7s       3.00nm            4.0mb
ARMA    33.43  245 iPc    30 23.30   -1.5
CNB     36.28  238 iPd    30 49.20    0.5
CAN     36.57  238 eP     30 51.20    0.1
CTA     38.25  263 iPd    31 05.00   -0.3
       0.7s       6.85nm            4.4mb
TOO     39.85  235 iPc    31 19.90    1.6
       0.3s      17.00nm            5.0mb
STK     42 15  245 iPd    31 36.50   -0.6
       0.4s       4.50nm            4.3mb
ASPA    49.18  256 iPd    32 32.00   -0.7
       0.7s      16.40nm            4.6mb
WB2     49.32  261 iPc    32 33.20   -0.5
       0.3s      12.40nm            4.8mb
WRA     49.34  261 P      32 33.70   -0.1
       0.9s       3.50nm            3.8mb
WARB    55.41  252 eP     33 18.40   -0.3
       0.4s      10.00nm            4.9mb
MBL     62.43  256 eP     34 08.70    1.8
     S.D. = 1.3   on  13 of  13 obs.
--------------------------------------
   MAY  07, 1993  15h 34m 43.91± 0.38s
   35 625 N ± 4.0km  112.173 W ± 3.9km
    DEPTH =  10.0km  (geophysicist)
 WESTERN ARIZONA                   ( 42)
       ML 3.8 (GS).

ARUT    2.39  335 ePn    35 24.08    0.2
                   ePg    35 25.90
                   eS     35 53.87
MSU     2.88  360 ePn    35 30.91    0.0
                   ePg    35 33.33
                   eS     36 06.50
GLA     3.38  221 ePnc   35 38.42    0.6
                   ePg    35 47.35
TUC     3.50  160 ePn    35 39.92    0.3
                   ePg    35 48.66
                   eS     36 31.91
TPNV    3.55  293 ePn    35 40.69    0.4
                   ePg    35 51.03
PV10    3.72   41 ePn    35 42.64   -0.2
SRU     3.72   20 ePn    35 42.51   -0.3
                   eS     36 34.27
PV09    3.76   39 ePn    35 44.10    0.6
GSC     3.79  266 ePn    35 43.30   -0.5
                   eS     36 39.50
PV08    4.08   43 ePn    35 48.24    0.3
                   ePg    35 57.52
                   eS     36 43.31
EMUT    4.32   14 ePn    35 51.51    0.2
                   eS     36 52.75
PEC     4.46  249 eP     35 52.55   -0.5
PLM     4.49  241 ePn    35 53.80    0.1
DUG     4.59  354 ePn    35 56.08    1.0
                   ePg    36 05.60
TNP     4.73  303 (Pn)   35 56.83   -0.4
SSK     4.75  254 ePn    35 57.05   -0.4
DAU     4 83    8 (Pn)   35 58.50   -0.2
                   ePg    36 10.01
BONR    5.44  297 ePn    36 07.36    0.0
                   ePg    36 28.43
                   eS     37 33.42
GOL     6.76   51 ePn    36 24.45   -1.4
                   ePg    36 45.05
BW06    7.43   15 ePn    36 35.28    0.1
                   ePg    36 56.64
                   eSg    38 34.44
     S.D. = 0.5   on  20 of  20 obs.
--------------------------------------
?  MAY  07, 1993  16h 13m 54.60± 0.95s
   26.429 S ± 7.0km   27.396 E ±11.8km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA          (584)
       ML 2.3 (PRE).

PRY     0.50  172 e(P)   14 03.90   -0.8
                   S      14 08.20
KSR     0.72  321 eP     14 08.90   -0.1
                   S      14 18.00
SLR     1.05   49 eP     14 15.00   -0.1
                   S      14 28.10
SEK     1.90  174 eP     14 29.00    0.9
                   S      14 54.00
SWZ     2.00  248 eP     14 33.09    3.6X
                   S      14 53.00
     S.D. = 1.2   on   4 of   5 obs.
--------------------------------------
*  MAY  07, 1993  16h 33m 02.39± 1.05s
    5.366 S ± 7.5km   151.981 E ±13.6km
   DEPTH =  60.9 ±  9.3 km
   4.4mb (  6 obs.)
 NEW BRITAIN REGION, P.N.G.        (192)

RAB     1.18    9 iPd    33 23.00    0.0
                   iS     33 40.00
PMG     6.24  230 eP     34 34.00    0.0
                   eS     35 46.00
BRS    21.92  178 eP     37 52.00   -0.2
WB2    22.45  228 eP     37 57.40   -0.1
       0.4s       6.30nm            4.4mb
WRA    22.46  228 P      38 07.20    9.6X
       0.9s       4.20nm            3.9mb
ASPA   25.19  222 eP     38 24.50    0.6
       1.2s      10.70nm            4.2mb
                   eS     43 09.30
KMI    56.63  305 eP     42 43.00    0.9
                   sP     42 49.50
GUN    71.72  302 P      44 20.60   -0.2
       0.6s      10.00nm            4.9mb
PKI    72.02  301 P      44 22.00   -0.6
KKN    72.19  301 P      44 23.00   -0.4
       0.5s       4.00nm            4.6mb
DMN    72.29  301 P      44 24.20    0.1
GKN    72.80  301 P      44 26.60   -0.3
YKA    96.30   28 eP     46 25.50    0.3
       0.9s       0.90nm            4.3mb
     S.D. = 0.5   on  12 of  13 obs.
--------------------------------------
*  MAY  07, 1993  16h 40m 06.00± 1.35s
   19.470 S ±12.2km  168.971 E ±17.9km
   DEPTH = 125.5 ±  8.8 km
   4.5mb (  4 obs.)
 VANUATU ISLANDS                   (186)

PVC     1.83  340 iPd    40 38.00   -0.1
                   iS     41 06.00
BKM     1.92  339 iP     40 39.20    0.0
                   iS     41 06.50
DZM     3.50  222 iPd    41 00.00    0.1
                   iS     41 40.20
ARMA   19.11  232 eP     44 36.80   15.0X
WB2    32.56  263 eP     46 27.20   -0.2
       0.4s       2.20nm            4.3mb
WRA    32.57  263 P      46 27.90    0.4
       0.6s       1.10nm            3.8mb
ASPA   32.83  256 eP     46 29.80    0.1
       0.4s       7.00nm            4.8mb
                   ipP    46 54.20  109kmX
BONR   88.94   49 iPc    52 40.92   -7.1X
INK    96.84   18 eP     53 24.00    0.8
YKA   100.99   27 ePdiff 53 42.10    0.0
       0 6s       1.00nm            4.6mb
SKO   144.52  316 i(PKP) 59 28.80   -0.4
GEC2  144.57  332 PKP    59 28.00   -1.2
       0.6s       3.60nm
GRF   144.99  335 ePKP   59 30.40    0.6
DOU   147.00  341 PKP    59 35.90    2.9X
CDF   147.55  337 ePKP   59 37.00    2.9X
       0.6s       3.80nm
BSF   148.22  337 ePKP   59 40.10    4.9X
       0.6s       2.70nm
FLN   149.56  346 ePKP   59 41.90    4.8X
       0.5s       3.50nm
LDF   149.64  346 ePKP   59 41.90    4.7X
LOR   149.72  340 ePKP   59 42.40    5.0X
       0.4s       3.30nm
GRR   150.00  346 ePKP   59 43.20    5.5X
       0.3s       2.80nm
SSF   150.02  340 ePKP   59 43.30    5.5X
       0.5s       4.10nm
LPL   150.15  334 ePKP   59 44.40    6.0X
LPG   150.16  334 ePKP   59 44.40    5.9X
LPF   150.38  346 ePKP   59 44.20    5.9X
       0.3s       3.20nm
TCF   151.12  341 ePKP   59 45.70    6.1X
       0.4s       1.25nm
LSF   151.36  342 ePKP   59 46.00    6.1X
       0.5s       3.80nm
PGF   151.44  328 ePKP   59 46.80    6.5X
       0.5s       9.90nm
FRF   151.77  332 ePKP   59 47.20    6.6X
       0.4s       1.90nm
LRG   151.98  332 ePKP   59 47.80    6.9X
       0.7s       3.75nm
     S.D. = 0.6   on  11 of  29 obs.
--------------------------------------
?  MAY  07, 1993  17h 13m 53.58± 1.34s
    9.696 N ±23.2km   83.782 W ±16.5km
   DEPTH =  10.0km  (geophysicist)
 COSTA RICA                         ( 78)
       MD 3.9 (UPA). Felt ot Tres Rios
       ond Cachi.

DVD     1.82  133 eP     14 25.12    0.0
                   iS     14 48.74
ECO     4.05   94 ePc    14 57.07    0.1
                   eS     15 43.23
UPA     4.25   99 ePd    14 59.72   -0.1
                   eS     15 48.52
LBFM   46.04  320 eP     22 19.49    0.0
     S.D. = 0.2   on   4 of   4 obs.
--------------------------------------
%  MAY  07, 1993  18h 26m 32.13± 1.11s
   45.706 N ± 5.4km     0.654 W ±10.1km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                            (538)
       ML 3.2 (LDG).
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MFF	0.96	21	Pg	26	52.30	1.9
			Sg	27	05.00	
LFF	1.25	127	Pn	26	55.70	0.4
			Pg	26	56.90	
			Sg	27	13.50	
RJF	1.58	104	Pg	27	02.50	2.3X
			Sg	27	23.00	
LSF	1.62	70	Pn	27	01.60	0.8
			Pg	27	04.20	
			Sg	27	24.70	
LPO	1.66	128	Pn	27	02.60	1.3
			Pg	27	03.70	
			Sg	27	25.60	
CAF	2.07	111	Pn	27	08.10	0.7
			Pg	27	11.50	
			Sg	27	37.40	
TCF	2.08	73	Pn	27	07.80	0.3
			Pg	27	11.30	
			Sg	27	37.40	
MAF	2.30	76	Pn	27	10.70	-0.1
			Pg	27	16.50	
			Sn	27	37.40	
			Sg	27	45.30	
LPF	2.34	354	Pg	27	16.10	4.9X
			Sg	27	45.60	
BGF	2.58	69	Pn	27	14.60	0.0
			Pg	27	22.00	
			Sg	27	54.30	
GRR	2.69	357	Pg	27	22.60	6.4X
			Sg	27	56.40	
HYF	2.76	54	Pn	27	17.00	-0.2
			Pg	27	25.00	
			Sg	28	01.80	
EPF	2.77	165	Pn	27	16.30	-1.1
			Pg	27	24.00	
			Sg	27	59.90	
LBL	2.79	98	Pg	27	18.20	0.5
			Sg	28	01.44	
LDF	2.91	7	Pn	27	19.00	-0.3
			Pg	27	26.80	
			Sg	28	04.90	
AVF	2.98	67	Pn	27	19.50	-0.8
			Pg	27	26.50	
			Sg	28	07.60	
FLN	3.06	2	Pn	27	21.50	0.1
			Pg	27	29.20	
			Sn	27	55.60	
			Sg	28	09.50	
SSF	3.18	63	Pn	27	22.30	-0.9
			Pg	27	33.10	
			Sn	27	57.40	
			Sg	28	11.50	
SMF	3.26	72	Pn	27	23.90	-0.4
			Pg	27	34.30	
			Sg	28	15.60	
LBF	3.45	67	Pn	27	25.90	-1.2
			Pg	27	37.60	
			Sg	28	20.40	
LOR	3.49	62	Pn	27	26.60	-0.9
			Pg	27	36.90	
			Sg	28	21.20	

S.D. = 0.9 on 18 of 21 obs.

? MAY 07, 1993 19h 13m 42.93± 8.65s
18.917 N ±35.7km 65.398 W ±54.4km
DEPTH = 10.0km (geophysicist)
PUERTO RICO REGION (90)

LPR	0.75	217	P	13	58.00	0.3
			S	14	11.50	
CPD	1.00	209	P	14	02.00	0.1
SJG	1.07	222	iP	14	02.90	-0.2
APR	1.34	250	P	14	08.00	0.3
CLLP	1.39	234	P	14	08.20	-0.2
PORP	1.46	234	P	14	09.00	-0.3
MGP	1.84	241	P	14	14.80	0.0

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

? MAY 07, 1993 19h 14m 22.75± 3.73s
25.681 S ±34.1km 178.946 E ±47.7km
DEPTH = 685.3 ± 21.9 km
4.6mb (10 obs.)
SOUTH OF FIJI ISLANDS (171)

WCZ	10.96	200	P	16	52.90	1.0
	0.7s		58.00nm			4.7mb
DZM	11.99	285	iPc	17	01.00	-0.6
WLZ	12.48	192	P	17	06.90	0.9
	0.9s		36.00nm			4.4mb
MOZ	13.26	194	P	17	14.90	1.6
	0.8s		142.00nm			5.1mb
MNG	15.17	190	P	17	29.40	-1.7
KIW	15.51	192	P	17	33.80	-0.4
MTW	15.70	190	P	17	35.20	-0.7
MRW	15.90	192	P	17	37.00	-0.8
TCW	15.97	193	P	17	38.30	-0.1
QRZ	16.02	198	P	17	39.60	0.7
THZ	16.80	196	P	17	46.30	0.2
DSZ	17.08	198	P	17	49.30	0.6
LTZ	17.92	196	P	17	55.40	-0.9
BRS	23.46	260	iPd	18	46.00	0.0
	1.0s		4.00nm			3.8mb
ARMA	24.54	253	iPc	18	55.60	0.1
	0.8s		13.00nm			4.4mb
CAN	27.45	242	iPc	19	20.70	0.2
BWA	27.74	244	iPc	19	21.20	-1.9
STK	33.20	250	eP	20	09.50	0.6
	0.6s		4.40nm			4.3mb
ASPA	40.83	263	iPc	21	11.40	0.7
	1.1s		45.50nm			4.9mb
			iS	26	33.00	
WB2	41.35	269	iPc	21	14.80	0.0
	0.4s		23.10nm			5.0mb
			eS	26	42.20	
WRA	41.36	269	P	21	15.40	0.5
	0.8s		6.90nm			4.2mb
WARB	46.77	257	eP	21	55.20	-1.1
	0.3s		9.00nm			4.7mb
NANU	57.47	259	eP	23	13.50	1.3
KAF	139.22	341	ePKP	32	33.00	-2.2X
NUR	140.97	340	ePKP	32	49.00	10.6X
UPP	143.46	344	iPKP	32	49.10	6.5X
NB2	143.67	350	PKP	32	50.30	7.3X
	0.7s		5.80nm			
HFS	144 08	347	ePKP	32	50.50	6.8X
	0.4s		6.60nm			
Z	17s		105.00um			7.7MszX
			LR	23	32.00	
EKA	150.34	2	PKP	33	11.00	17.3X
	0.5s		1.20nm			
KSP	151.57	337	iPKP	33	11.80	16.1X
CLL	152.24	341	iPKPc	33	12.90	16.3X
BRG	152.34	339	i(PKP)	33	13.10	16.3X
GEC2	154.16	337	PKP	33	06.20	6.8X
	1.1s		1.14nm			
			e	33	17.10	

S.D. = 1.0 on 23 of 33 obs.

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* MAY 07, 1993 19h 55m 08.85± 0.51s
21.348 N ±11.0km 45.682 W ± 9.1km
DEPTH = 10.0km (geophysicist)
4.7mb (22 obs.) 3.9Msz (1 obs.)
NORTHERN MID-ATLANTIC RIDGE (403)

EVAL	37.26	56	eP	02	23.00	0.4
MAL	38.89	58	iPd	02	38.20	2.0
EGUA	39.57	58	eP	02	42.60	0.6
JAQ	39.64	332	eP	02	43.00	0.7
ECOG	39.66	57	eP	02	44.10	1.3
SIV	40.06	203	P	02	59.40	13.2X
ENIJ	40.67	58	eP	02	51.80	0.8
ECRI	41.75	49	eP	02	54.00	-5.9X
ZOBO	43.38	212	P	03	14.10	0.1
	1.7s		29.07nm			4.8mb
Z	20s		0.15um			3.9Msz
			LR	16	32.00	
LPB	43.59	212	P	03	21.00	5.4X
CNCB	43.78	212	P	03	17.00	-0.2
MFF	44.57	45	eP	03	22.80	0.1
	1.0s		10.00nm			4.7mb
LFF	44.67	47	eP	03	23.10	-0.4
	1.1s		17.85nm			4.9mb
FRB	45.08	346	eP	03	28.50	2.0
	1.2s		13.00nm			4.7mb
LSF	45.57	45	eP	03	30.40	-0.3
	1.2s		12.20nm			4.7mb
CAF	45.57	47	eP	03	30.20	-0.6
	1.3s		9.75nm			4.6mb
TCF	46.03	46	eP	03	34.20	-0.2
	1.1s		11.70nm			4.8mb
AVF	46.93	45	eP	03	41.10	-0.3
	1.1s		16.10nm			5 0mb
SSF	47.10	45	eP	03	42.40	-0.4
	1.1s		8.30nm			4.7mb
SMF	47.22	46	eP	03	43.40	-0.3
	0.8s		3.65nm			4.5mb
LBF	47.39	45	eP	03	44.50	-0.7
	0.9s		4.60nm			4.6mb
LMR	48.36	50	eP	03	52.40	-0.3
	1.4s		14.80nm			4.9mb
FRF	48.50	50	eP	03	53.70	-0.1
LPL	48.92	48	eP	03	57.60	0.3
	1.0s		5.60nm			4.6mb
LPG	48.93	48	eP	03	57.70	0.3
	1.0s		7.20nm			4.7mb
HAU	49.21	44	eP	03	58.20	-1.0
	0.9s		4.90nm			4.5mb
BSF	49.46	45	eP	04	00.20	-1.0
	1.1s		10.00nm			4.7mb
CDF	49.91	44	eP	04	03.70	-1.0
	1.5s		17.75nm			4.8mb
VAI	50.39	48	P	04	08.50	0.3
FCC	50.85	330	eP	04	22.00	10.5X
CTI	52.40	48	P	04	23.20	-0.5
MOX	53.15	42	e(P)	04	30.80	1.8
FVI	53.25	47	P	04	30.60	0.8
RBL	53.77	47	P	04	32.70	-1.0
KHC	54.14	44	eP	04	35.50	-0.8
			e	04	43.50	
CLL	54.14	41	e(P)	04	36.00	-0.2
GEC2	54.17	45	P	04	35.80	-0.9
	1.0s		3.60nm			4.4mb
			e	04	42.90	
			e	04	48.80	
MGR	54.81	55	P	04	42.00	0.6
ZST	56.34	46	eP	04	52.80	0.5
NSD	60.17	26	eP	05	17.30	-1.5
	0.4s		1.10nm			4.3mb
YKA	61.56	330	eP	05	26.50	-1.8
	0.8s		1.60nm			4.2mb
MLR	62.36	49	ePd	05	34.50	0.4
			e	09	13.50	
MBC	65.54	345	eP	06	04.00	9.7X
OBN	68.40	38	ePd	06	07.00	-5.7X
	1.0s		21.00nm			5.3mb
INK	69.57	337	eP	06	20.50	0.9
	1.2s		4.00nm			4.4mb

S.D. = 0.9 on 39 of 45 obs.

MAY 07, 1993 20h 16m 37.82± 0.65s
0.830 N ± 3.6km 124.459 E ± 6.9km
DEPTH = 194.9 ± 6.9 km
5.0mb (24 obs.)
MINAHASSA PENINSULA, SULAWESI (265)

MNI	0.72	32	ePd	17	04.50	-1.1
			eS	17	25.50	
MAP	9.44	357	iPc	18	53.00	2.2
PLP	10.28	3	ePd	19	01.50	-0.3
PGP	13.06	345	ePd	19	39.00	1.6
MTN	15.11	154	eP	20	01.00	-1.9
BCP	15.95	346	eP	20	14.00	0.7
MBL	22.32	191	eP	21	19.00	-1.0
	0.5s		26.00nm			5.0mb
WRA	22.81	155	P	21	25.20	0.4
	0.5s		32.50nm			5.2mb
WB2	22.81	155	iPc	21	24.40	-0.4
	0.5s		121.20nm			5.7mb
			eS	25	23.00	
IPM	23.70	279	eP	21	34.50	1.1
NANU	24.83	200	iPd	21	43.70	-0.1
	0.4s		23.00nm			5.1mb
ASPA	26.02	160	eP	21	53.70	-1.1
	0.6s		33.50nm			5.2mb
			ePP	22	51.30	
			eS	26	10.80	
WARB	26.94	176	eP	22	03.00	-0.1
	0.4s		16.00nm			5.1mb
MEEK	27.88	191	eP	22	10.40	-1.2
SSE	30.26	354	eP	22	32.00	-0.5
CHG	30.75	307	eP	22	37.70	0.6
	1.0s		14.25nm			4.7mb
KAGJ	30.80	11	P	22	36.50	-0.8
FORT	31.62	174	iPd	22	44.10	-0.3
	0.5s		50.00nm			5.5mb
KMI	31.99	321	Pc	22	50.00	2.0
KUMJ	32.10	10	P	22	47.80	-0.8
SHNJ	33.70	10	P	23	01.60	-0.8
TKSJ	34.18	14	P	23	06.20	-0.3
TKSJ	34.18	14	P	23	06.50	0.0
WKYJ	34.81	16	P	23	11.70	-0.2

07d 20h

YONJ	35.20	13	P	23	15.00	-0.1
TSRJ	36.16	16	P	23	22.70	-0.4
STK	36.36	155	iPd	23	24.90	0.1
	0.6s	22.80nm				5.0mb
CHJJ	37.55	19	P	23	33.30	-1.5
MTMJ	37.66	18	P	23	35.60	-0.3
MAT	37.75	18	iPc	23	35.10	-1.4
	0.8s	47.76nm				5.2mb
BRS	39.10	138	iPd	23	48.00	0.2
	0.8s	6.00nm				4.3mb
BJI	39.75	350	eP	23	52.00	-0.9
	1.0s	44.00nm				5.0mb
LZH	39.96	334	iPd	23	56.00	1.1
	1.4s	81.00nm				5.1mb
			pP	24	28.00	144kmX
ARMA	40.43	143	iPc	24	00.10	1.3
	0.6s	17.00nm				4.8mb
OFUJ	41.20	20	eP	24	05.10	0.3
BWA	41.65	150	iPd	24	11.00	2.3
CAN	42.65	150	iPd	24	18.10	1.4
CNB	42.83	150	eP	24	20.10	1.9
	0.7s	27.00nm				4.9mb
TOO	42.88	155	iPd	24	20.00	1.4
	0.5s	30.00nm				5.1mb
MRRJ	44.02	18	eP	24	27.90	0.3
HOOJ	44.70	20	P	24	34.30	1.3
GUN	45.70	310	P	24	41.20	-0.4
KUSJ	45.82	21	P	24	42.40	0.5
PKI	45.90	309	P	24	43.00	-0.2
ASAJ	46.04	18	P	24	44.10	0.5
KKN	46.10	309	P	24	44.60	-0.1
DMN	46.15	309	P	24	45.00	-0.1
GKN	46.70	309	P	24	49.40	0.1
	0.6s	11.00nm				4.5mb
GBA	48.23	287	P	25	01.00	-0.1
YAK	61.16	3	iPc	26	32.80	-0.8
	1.0s	136.00nm				5.7mb
			e(S)	34	38.00	
QUE	61.82	304	eP	26	37.80	-1.0
CSY	67.71	186	eP	27	15.90	0.2
	0.7s	25.10nm				5.1mb
IMA	85.94	24	eP	28	57.35	0.5
	0.6s	2.12nm				4.1mb
OBN	88.10	325	iP	29	06.50	-0.8
	0.9s	19.00nm				5.0mb
			i	29	10.00	
BALM	90.84	29	eP	29	20.70	0.6
KAF	93.09	332	iP	29	28.90	-1.4
	0.4s	2.00nm				4.6mb
NB2	100.34	333	Pdiff	30	01.40	-1.9
	0.9s	1.50nm				4.5mb
GEC2	102.90	321	ePdiff	30	14.90	-0.1
	0.7s	0.37nm				4.2mb
			e	30	18.30	

S.D. = 1.0 on 58 of 58 obs.

• MAY 07, 1993 21h 09m 16.72± 1.22s
8.484 S ±15.8km 118.098 E ± 8.6km
DEPTH = 10.0km (geophysicist)
4.2mb (1 obs.)
SUMBAWA REGION, INDONESIA (285)

KHKI	2.47	273	ePd	09	57.50	-0.1
			eS	10	28.50	
			e	14	38.80	
MBL	12.71	173	eP	12	20.00	-0.4
	0.3s	6.00nm				5.3mb X
			eS	14	35.00	
MTN	13.52	110	eP	12	31.00	-0.1
NANU	14.21	190	eP	12	40.50	0.3
			eS	15	19.00	
MEEK	18.06	179	eP	13	25 00	-4.6X
			eS	16	33.00	
WB2	19.42	128	eP	13	46.00	-0.3
	0.3s	4.80nm				4.2mb
			eS	17	19.30	
ASPA	21.38	137	eP	14	07.40	0.6

S.D. = 0.5 on 6 of 7 obs.

• MAY 07, 1993 21h 32m 01.80± 1.86s
31.202 S ±17.1km 68.288 W ±11.4km
DEPTH = 94.6 ± 21.7 km
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.20	231	iPc	32	15.70	-0.2
			S	32	26.50	
CFA	0.41	174	ePc	32	16.70	0.1
			S	32	28.00	
RTCB	0.52	237	ePd	32	17.50	0.0
			S	32	28.50	
RTBS	1.10	245	ePc	32	23.20	0.0
RTPR	1.77	60	ePd	32	31.90	0.2
			S	32	55.10	
MRA	2.51	119	ePc	32	41.70	0.2
			S	33	10.00	
TCA	3.17	93	ePc	32	50.20	-0.4
			S	33	26.00	

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

? MAY 07, 1993 21h 44m 54.28± 4.42s
35.434 S ±34.2km 71.380 W ±26.2km
DEPTH = 100.0km (geophysicist)
CENTRAL CHILE (136)
MD 3.9 (SAN).

LNV	1.47	359	iP	45	20.91	0.3
			iS	45	39.44	
CHCH	1.61	22	iP	45	22.25	-0.1
			iS	45	42.65	
TACH	1.81	12	iP	45	24.69	-0.3
			iS	45	46.52	
PCH	1.94	22	iP	45	26.75	0.0
			iS	45	50.35	
LCCH	1.96	355	iP	45	26.59	-0.2
			iS	45	50.19	
FCH	2.29	24	iP	45	31.79	0.3
			iS	45	59.16	
PEL	2.36	14	iP	45	32.31	0.2
			iS	45	59.93	
ROCH	2.47	7	iP	45	34.01	0.1
			iS	46	03.10	
RFA	2.48	75	iP	45	33.80	0.0
JACH	2.82	14	iP	45	38.18	-0.3
			iS	46	10.74	

S.D. = 0.3 on 10 of 10 obs.

? MAY 07, 1993 22h 12m 31.35± 9.36s
47.413 N ±66.2km 7.684 E ±26.8km
DEPTH = 10.0km (geophysicist)
SWITZERLAND (544)
ML 1.6 (LDG).

FEL	0.51	26	ePg	12	41.78	0.0
BSF	0.73	305	Pg	12	45.60	-0.2
			Sg	12	56.00	
CDF	1.04	345	Pg	12	51.00	0.0
			Sg	13	05.20	
HAU	1.08	304	Pg	12	51.90	0.2
			Sg	13	05.50	

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

• MAY 07, 1993 22h 29m 20.45± 2.34s
17.406 S ±20.7km 179.024 W ±16.3km
DEPTH = 539.1 ± 28.4 km
4.4mb (10 obs.)
FIJI ISLANDS REGION (181)

DZM	14.44	249	iPc	32	25.20	0.7
BRS	27.84	244	iPc	34	28.50	0.1
ARMA	29.69	239	iPd	34	44.40	-0.1
	0.4s	13.00nm				4.9mb
CNB	33.27	231	iPc	35	14.20	-0.5
	0.3s	9.00nm				4.9mb
TOO	37.04	230	iPc	35	45.90	0.1
	0.7s	24.00nm				4.9mb
WB2	44.14	259	eP	36	42.40	-0.5
	0.5s	6.40nm				4.4mb
WRA	44.15	259	P	36	43.30	0.3
	0.7s	1.30nm				3.6mb
ASPA	44.37	254	iPd	36	44.50	-0.2
	0.6s	37.10nm				5.1mb
WARB	50.90	250	eP	37	33.20	-0.7
PLM	77.85	49	eP	40	23.96	0.0
CP2	81.28	13	eP	40	40.50	-0.7
CRP	81.30	13	eP	40	40.61	-0.6
MSU	83.68	47	eP	40	54.44	0.7
IMA	85.38	10	(P)	41	01.20	-0.1
	1.0s	1.50nm				3.6mb
LTX	86.22	58	eP	41	05.77	-0.4
LCCM	87.33	40	eP	41	11.50	0.4
BW06	87.40	44	eP	41	11.07	-0.6
	0.4s	1.54nm				4.1mb
INK	91.56	15	eP	41	31.50	1.6
RSSD	91.61	44	eP	41	30.79	-0.2
	1.0s	1.90nm				4.1mb
YKA	94.12	25	eP	41	40.90	-0.9
	0.8s	1.00nm				4.0mb
KSP	144.46	343	iPKP	47	56.80	0.3
CLL	144.84	347	iPKPc	47	57.50	0.4
	0.8s	14.00nm				
BRG	145.04	346	i(PKP)	47	58.40	0.9
	0.8s	10.00nm				
KHC	146.74	345	ePKP	48	03.60	3.2X
GEC2	146.98	345	PKP	48	04.00	3.2X
	0.5s	3.40nm				
			e	48	07.70	
CDF	148.65	352	ePKP	48	08.10	4.6X
	0.6s	5.30nm				
FLN	148.70	2	ePKP	4B	08.00	4.6X
	0.6s	4.70nm				
LDF	148.88	1	ePKP	48	08.00	4.3X
	0.4s	2.25nm				
GRR	149.06	2	ePKP	48	08.70	4.7X
	0.4s	3.30nm				
HAU	149.17	353	ePKP	48	09.20	5.0X
	0.5s	2.75nm				
BSF	149.28	352	ePKP	48	09.40	4.9X
	0.7s	3.95nm				
LPF	149.41	3	ePKP	48	09.50	5.0X
	0.4s	7.00nm				
LOR	150.13	356	ePKP	4B	11.40	5.8X
	0.5s	5.85nm				
SSF	150.35	357	ePKP	48	12.10	6.1X
	0.5s	5.30nm				
LBF	150.40	356	ePKP	48	11.90	5.8X
	0.4s	1.60nm				
AVF	150.63	357	ePKP	48	12.20	5.8X
SMF	150.75	356	ePKP	48	12.80	6.2X
OHR	150.86	328	ePKP	48	13.20	6.2X
MFF	150.87	2	ePKP	48	12.90	6.1X
	0.5s	3.50nm				
BGF	150.89	357	ePKP	48	13.20	6.4X
	0.4s	2.05nm				
TCF	151.18	358	ePKP	48	13.60	6.3X
	0.8s	4.05nm				
LSF	151.23	359	ePKP	48	13.50	6.2X
	0.8s	5.50nm				
MAF	151.24	358	ePKP	48	14.20	6.9X
	0.7s	3.65nm				

S.D. = 0.6 on 23 of 43 obs.

% MAY 07, 1993 22h 47m 35.93± 2.47s
38.512 N ±20.3km 22.589 E ± 8.9km
DEPTH = 10.0km (geophysicist)
GREECE (364)

AGG	0.55	338	ePg	47	46.76	-0.3
			eSg	47	57.60	
LIT	1.59	357	ePb	48	04.80	0.6
			iSb	48	29.28	
PAIG	1.65	31	ePb	48	04.90	-0.1
			eSb	48	29.54	
IGT	2.03	301	ePn	48	10.52	-0.1
OUR	2.12	30	ePn	48	11.48	-0.3
SOH	2.38	14	ePn	48	15.76	0.1
GRG	2.45	357	iPn	4B	16.70	0.2
SRS	2.71	16	ePn	48	20.18	-0.2

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

% MAY 07, 1993 23h 37m 46.17± 0.67s
42.374 N ± 5.4km 19.417 E ± 4.9km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 1.8 (TTG).

TTG	0.13	296	iPgd	37	50.55	1.3
			iSg	37	54.14	
ULC	0.43	197	iPgc	37	54.78	-0.2
			iSg	3B	01.46	
BDV	0.45	258	iPgd	37	55.28	0.0
			iSg	38	01.87	
PVY	0.47	62	iPgd	37	55.76	0.1
			iSg	38	03.84	
NKY	0.54	325	ePg	37	56.74	-0.3
			iSg	38	05.41	
IVA	0.61	35	iPgd	37	58.52	0.0
			iSg	3B	08.34	
HCY	0.68	276	iPgd	37	59.37	-0.4
			iSg	38	09.55	
BRY	0.83	310	ePg	38	01.87	-0.5
			iSg	38	14.71	

```
PLE      0.96 359 iPgd  38 04.41   0.0
                  iSg   38 19.17
      S.D. = 0.6   on   9 of   9 obs.
-------------------------------------------
    MAY  07, 1993  23h 50m 21.49± 0.48s
    38.554 S ± 4.8km  175.569 E ± 5.2km
    DEPTH = 208.7 ±  5.4 km
    2.5mb (  1 obs.)
 NORTH ISLAND, NEW ZEALAND          (159)

MOZ      0.60 274 P     50 50.40   0.4
                  S     51 08.60
NGZ      0.62 178 P     50 49.70  -0.6
CNZ      0.65 181 P     50 50.00  -0.6
WLZ      0.68   2 P     50 51.20   0.6
                  S     51 10.00
WHH      0.80 115 P     50 50.10  -1.2
PAHZ     1.20 105 P     50 53.60  -0.3
URZ      1.25  77 P     50 53.60  -0.5
                  S     51 13.20
WAHZ     1.30 152 Pc    50 54.50  -0.1
BSZ      1.34 202 Pc    50 55.40   0.5
MOH      1.36 116 P     50 55.40   0.3
TEHZ     1.73 146 P     50 58.40   0.1
MAHZ     1.91 110 P     51 00.60   0.5
NOZ      1.93  93 P     51 01.00   0.7
MNG      2.06 182 Pc    51 01.70   0.1
                  S     51 26.60
PUZ      2.17  78 P     51 03.10   0.4
                  S     51 29.30
KIW      2.36 192 Pc    51 04.80   0.0
CAW      2.58 188 P     51 07.10  -0.1
MTW      2.60 181 Pc    51 07.10  -0.3
MRW      2.76 194 Pc    51 09.20   0.0
                  S     51 40.80
WEL      2.80 192 P     51 09.70   0.1
BLW      2.81 181 Pc    51 09.60  -0.2
TCW      2.84 200 Pc    51 10.30   0.2
MOW      2.88 185 P     51 10.20  -0.3
ORZ      3.26 225 P     51 15.40   0.3
                  S     51 54.10
THZ      3.80 212 P     51 21.90   0.2
KHZ      4.16 201 Pc    51 26.50   0.5
DSZ      4.30 221 P     51 27.90   0.0
LTZ      4.91 210 P     51 35.40  -0.2
BWZ      7.34 214 P     52 06.80  -0.1
ODZ      7.46 208 P     52 08.70   0.2
WRA     40.07 286 P     57 37.50  -0.5
        1.2s      0.20nm          2.5mb
      S.D. = 0.4   on  31 of  31 obs.
-------------------------------------------
%  MAY  08, 1993  00h 02m 12.23± 0.89s
    44.338 N ± 7.6km     7.277 E ±10.1km
    DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                     (545)
      ML 1.8 (GEN).

STV      0.10 160 P     02 14.91  -0.1
                  S     02 16.27
ENR      0.15 137 P     02 15.87   0.0
                  S     02 17.92
PZZ      0.21 323 P     02 17.06   0.2
                  S     02 20.33
ROB      0.43  96 P     02 21.13   0.1
BHB      0.50 359 P     02 22.23  -0.2
      S.D. = 0.2   on   5 of   5 obs.
-------------------------------------------
%  MAY  08, 1993  00h 52m 40.64± 0.82s
    44.423 N ± 6.9km     7.236 E ± 9.8km
    DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                     (545)
      ML 1.7 (GEN).

PZZ      0.13 310 P     52 43.82   0.0
                  S     52 45.61
STV      0.19 161 P     52 44.91   0.0
                  S     52 47.44
ENR      0.24 146 P     52 45.81   0.1
                  S     52 49.05
BHB      0.42   3 P     52 49.26   0.1
                  S     52 54.91
ROB      0.47 106 P     52 50.20  -0.1
      S.D. = 0.1   on   5 of   5 obs.
-------------------------------------------
    MAY  08, 1993  01h 27m 08.02± 0.28s
    44.349 N ± 2.1km     7.289 E ± 3.3km
    DEPTH =  10.0km  (geophysicist)

 NORTHERN ITALY                     (545)
      ML 2.1 (GEN). 2.0 (LDG).

STV      0.11 166 P     27 10.60  -0.3
                  S     27 11.91
ENR      0.15 142 P     27 11.50  -0.2
                  S     27 13.59
PZZ      0.21 319 P     27 12.60   0.0
                  S     27 15.98
TOUF     0.34 185 Pg    27 14.72  -0.3
                  Sg    27 19.37
AUTN     0.37 164 Pg    27 15.46  -0.2
                  Sg    27 19.73
SAOF     0.41 152 Pg    27 16.25  -0.2
                  Sg    27 22.04
ROB      0.42  97 P     27 17.27   0.6
                  S     27 22.94
AURF     0.46 177 Pg    27 16.95  -0.5
                  Sg    27 23.08
BHB      0.49 358 P     27 17.68  -0.3
                  S     27 24.40
SBF      0.50 168 Pg    27 17.90  -0.2
                  Sg    27 24.00
IMI      0.62 135 P     27 20.08  -0.4
                  S     27 28.15
FIN      0.67 102 P     27 21.47   0.0
                  S     27 30.35
RRL      0.68 328 P     27 21.15  -0.4
RSP      0.80 358 P     27 22.43  -1.3
                  S     27 31.91
FRF      0.91 211 Pg    27 26.40   0.9
                  Sg    27 46.80
PCP      0.92  77 P     27 26.43   0.8
                  S     27 37.86
LSD      1.11 355 P     27 29.92   0.9
LRG      1.12 217 Pg    27 29.60   0.6
                  Sg    27 44.10
LMR      1.16 209 Pg    27 30.00   0.3
                  Sg    27 44.30
LPG      1.21 342 Pg    27 30.90   0.1
                  Sg    27 46.40
LPL      1.23 341 Pg    27 31.30   0.2
      S.D. = 0.6   on  21 of  21 obs.
-------------------------------------------
*  MAY  08, 1993  03h 10m 48.18± 0.52s
    6.971 N ± 8.5km  123.919 E ±12.5km
    DEPTH =  33.0km  (normal)
    4.3mb (  6 obs.)
 MINDANAO, PHILIPPINE ISLANDS       (259)

CGP      1.66  27 ePd    11 15.50   0.1
                  eS    11 35.00
MAP      3.33   1 iPd    11 32.00  -7.2X
                  eS    11 59.00
PLP      4.30  14 ePd    11 31.00 -21.9X
                  eS    11 49.20
WRA     28.64 159 P     16 44.00  -0.1
        0.5s      1.80nm          4.0mb
WB2     28.65 159 iPd   16 43.30  -0.8
        0.6s      5.50nm          4.4mb
ASPA    31.97 163 eP    17 14.40   0.8
        0.3s      4.60nm          4.9mb
PKI     41.83 304 P     18 37.20   0.0
KKN     42.02 304 P     18 38.60   0.0
DMN     42.10 304 P     18 39.40   0.1
STK     42.16 157 eP    18 38.30  -1.0
        0.5s      1.90nm          4.1mb
GKN     42.63 304 P     18 43.40  -0.1
ADE     43.99 162 iPc   18 56.20   1.9
TOO     48.67 157 iPc   19 30.60  -0.7
        0.4s     10.00nm          5.2mb
MBC     89.41  12 eP    23 23.00 -19.6X
YKA     97.69  24 eP    24 27.30   6.5X
        0.8s      0.40nm          4.0mb
      S.D. = 0.9   on  11 of  15 obs.
-------------------------------------------
    MAY  08, 1993  03h 29m 05.27± 0.67s
    43.677 N ± 6.6km    12.332 E ± 5.9km
    DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                      (381)

RSM      0.26  19 P     29 11.40   0.5
                  eSg   29 17.00
CRE      0.28 260 P     29 13.10   1.9
                  eSg   29 18.10
SFI      0.42 305 P     29 13.30  -0.6
                  eSg   29 20.10

ARV      0.48 112 P     29 15.00   0.0
                  eSg   29 23.90
PGD      0.48 294 P     29 14.50  -0.7
                  eSg   29 22.80
ASS      0.65 158 P     29 19.00   0.7
                  eSg   29 28.30
BDI      1.31 288 P     29 29.00  -0.6
PII      1.31 273 P     29 25.40  -4.1X
MNS      1.32 169 P     29 28.00  -1.6
AQU      1.54 149 P     29 33.00   0.2
VOY      2.60  25 ePn   29 40.30  -7.9X
                  eSn   30 09.50
                  e     30 27.30
PGF      2.69 246 Pn    29 45.20  -4.3X
                  Sn    30 16.00
SBF      3.55 275 Pn    29 56.50  -5.1X
                  Sn    30 36.20
FRF      4.13 270 Pn    30 04.20  -5.5X
LMR      4.25 267 Pn    30 05.90  -5.6X
LRG      4.35 269 Pg    30 08.10  -4.7X
LPL      4.40 297 Pn    30 09.60  -4.3X
CDF      5.90 325 Pn    30 25.50  -9.3X
HAU      6.02 318 Pn    30 28.00  -8.4X
      S.D. = 1.2   on   9 of  19 obs.
-------------------------------------------
%  MAY  08, 1993  03h 49m 06.84± 0.78s
    31.668 S ±10.0km   68.045 W ± 7.7km
    DEPTH =  33.0km  (normal)
 SAN JUAN PROVINCE, ARGENTINA       (137)

CFA      0.18 290 iPc   49 12.20  -1.1
                  S     49 25.00
RTLL     0.50 313 iPc   49 17.50   0.1
                  S     49 26.50
RTCB     0.67 286 ePd   49 21.00   1.1
                  S     49 33.20
RTPR     1.89  44 e(P)c 49 36.90  -0.5
MRA      2.12 111 ePd   49 37.00  -3.6X
                  S     50 02.10
TCA      2.97  85 ePc   49 53.50   0.7
                  S     50 34.20
RFA      3.11 186 e(P)  49 54.60  -0.2
                  S     50 40.20
      S.D. = 1.0   on   6 of   7 obs.
-------------------------------------------
?  MAY  08, 1993  03h 55m 12.52± 3.33s
    17.346 N ±29.3km  103.582 W ±21.6km
    DEPTH =  33.0km  (normal)
    3.6mb (  1 obs.)
 NEAR COAST OF MICHOACAN, MEXICO ( 56)

CGX      2.35   3 eP    55 49.27  -0.5
                  iS    56 14.86
MRX      3.26  44 iP    56 02.60   0.1
                  (S)   56 23.80
ACX      3.59  97 (P)   56 14.53   7.2X
                  (S)   56 51.79
III      4.05  75 iP    56 15.20   1.2
                  (S)   57 02.00
CRX      4.23  60 iP    56 19.50   2.8X
                  iS    57 08.50
UNM      4.62  64 (P)   56 25.00   2.8X
IIA      5.01  68 (P)   56 22.00  -5.4X
PPM      5.01  69 iP    56 29.30   1.4
                  (S)   57 34.46
IISM     6.12  74 (P)   56 41.00  -2.1
OXX      6.56  91 iP    56 49.00  -0.5
                  (S)   58 17.00
YKA     45.76 353 eP    03 32.70   0.4
        1.0s      0.80nm          3.6mb
      S.D. = 1.4   on   7 of  11 obs.
-------------------------------------------
    MAY  08, 1993  04h 07m 15.24± 0.33s
    44.356 N ± 2.6km     7.302 E ± 3.7km
    DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                     (545)
      ML 2.1 (GEN), 1.7 (LDG).

STV      0.11 172 P     07 17.72  -0.5
                  S     07 19.05
ENR      0.16 147 P     07 18.63  -0.3
                  S     07 20.70
PZZ      0.21 316 P     07 19.82   0.0
                  S     07 22.83
ROB      0.41  98 P     07 24.49   0.8
                  S     07 29.97
BHB      0.49 357 P     07 25.02  -0.1
```

08d 04h

		S	07 31.50			
SBF	0.50	169 Pg	07 25.00	-0.4		
		Sg	07 32.50			
IMI	0.61	136 P	07 27.25	-0.4		
		S	07 35.38			
FIN	0.67	102 P	07 27.88	-0.7		
		S	07 37.16			
RRL	0.67	327 P	07 28.19	-0.6		
RSP	0.80	358 P	07 29.73	-1.1		
		S	07 39.96			
PCP	0.91	78 P	07 33.62	0.9		
		S	07 45.91			
FRF	0.93	211 Pg	07 33.40	0.5		
		Sg	07 44.00			
LSD	1.11	355 P	07 36.71	0.5		
LRG	1.13	217 Pg	07 37.00	0.6		
		Sg	07 51.80			
LMR	1.17	210 Pg	07 37.30	0.2		
		Sg	07 51.40			
LPG	1.21	341 Pg	07 38.30	0.4		
		Sg	07 56.00			
LPL	1.23	341 Pg	07 38.40	0.2		

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

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* MAY 08, 1993 04h 19m 40.26± 0.71s
29.047 N ± 9.0km 142.118 E ±13.4km
DEPTH = 33.0km (normal)
4.3mb (6 obs.)
SOUTH OF HONSHU, JAPAN (211)

IIDJ	7.34	332 P	21 28.20	0.4		
CHJJ	7.46	340 P	21 28.40	-1.2		
		S	22 50.00			
MAT	8.16	337 eP	21 38.00	-1.4		
	1.0s	15.00nm		5.1mb		
		(S)	23 06.00			
CHTO	40.56	265 eP	27 19.40	1.0		
GUN	49.04	283 P	28 27.00	0.4		
WB2	49.28	190 iPc	28 26.30	-1.7		
	0.7s	8.00nm		4.9mb		
WRA	49.28	190 P	28 27.00	-1.0		
	0.7s	3.90nm		4.5mb		
PKI	49.53	283 P	28 31.40	1.0		
KKN	49.58	283 P	28 30.80	0.2		
DMN	49.78	283 P	28 33.00	0.8		
GKN	50.07	284 P	28 34.60	0.3		
INK	61.29	25 eP	29 55.50	1.2		
	1.0s	1.00nm		3.9mb		
MBC	64.03	15 eP	30 12.00	-0.4		
LCCM	79.83	43 eP	31 49.20	2.1		
HFS	81.61	337 eP	31 54.90	-1.1		
	0.4s	0.50nm		3.9mb		
NB2	81.78	338 P	31 56.40	-0.5		
	0.9s	1.70nm		4.1mb		
ZOBO	149.43	72 PKP	39 28.00	3.7X		
LPB	149.58	72 PKP	39 35.00	10.7X		
CNCB	149.82	73 PKP	39 30.00	5.2X		

S.D. = 1.2 on 16 of 19 obs.

& MAY 08, 1993 04h 37m 27.63s
34.638 N 116.516 W
DEPTH = 7.9km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 2.9 (PAS), 2.7 (GS).
Felt.

GSC	0.70	340 iPc	37 40.79	-1.0		
		eS	37 50.15			
PEC	0.92	216 iPd	37 44.24	-1.1		
		eS	37 59.56			
SSK	1.06	247 ePd	37 46.93	-1.0		
		eS	38 01 56			
PLM	1.31	193 eP	37 51.43	-0.8		
		eS	38 09.08			
ISA	1.90	303 ePn	37 58.53	-2.2		
GLA	2.12	138 eP	38 00.65	-3.2		
TPNV	2.32	5 (Pn)	38 05.48	-1.4		
BCH	2.98	282 ePn	38 14.56	-1.7		
TNP	3.48	351 (Pn)	38 23.79	0.4		
	9 obs. associoted					

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* MAY 08, 1993 05h 00m 20.54± 0.90s
42.438 S ±17.1km 82.934 W ±14.7km
DEPTH = 10.0km (geophysicist)
WEST CHILE RISE (686)

RTCB	15.70	50 ePd	04 04.00	0.6		
RTLL	16.00	51 ePc	04 05.50	-1.8		
RTRS	16.34	46 iPd	04 15.00	3.5X		
CYA	19.69	50 ePd	04 51.60	-1.3		
FSA	21.42	46 e(P)	05 11.50	0.8		
SLA	22.79	45 ePc	05 25.80	1.2		
YJA	24.92	41 ePd	05 46.00	0.4		
ARE	27.68	24 eP	06 13.00	2.0		
CNCB	28.56	31 P	06 04.00	-15.3X		
		i	06 20.20			
LPB	28.78	31 P	06 21.00	0.0		
	Z 24s	4.65um		5.0MszX		
		LR	14 38.00			
CCH	28.79	35 eP	06 22.00	0.9		
NVL	52.13	155 e(P)	09 34.00	1.5		
LTX	73.93	341 (P)	11 58.20	0.6		
KIC	85.61	77 P	12 59.50	-1.1		
DAU	86.36	339 (P)	12 58.04	-6.1X		
GAC	88.01	5 eP	13 09.00	-2.4		
HVU	88.05	338 (P)	13 11.14	-0.9		
LGPM	90.47	331 (P)	13 22.15	-1.3		
LBFM	90.52	332 (P)	13 24.85	1.1		
BGMT	91.07	340 eP	13 27.50	1.2		
CLL	124.85	50 e(PKP)	19 20.00	-1.5		
PRU	125.15	52 ePKP	19 34.50	12.4X		
		eSg	19 37.60			
GBA	146.62	144 PKP	20 00.00	-2.6X		
MAIO	150.49	89 ePKP	20 13.00	4 8X		
YAK	152.48	327 ePKP	20 20.00	9.8X		
	1.0s	30.00nm				
QUE	152.97	107 ePKP	20 23.50	11.3X		

S.D. = 1.4 on 18 of 26 obs.

MAY 08, 1993 05h 16m 56.61± 0.46s
49.126 N ± 4.1km 6.921 E ± 5.1km
DEPTH = 10.0km (geophysicist)
GERMANY (543)
ML 2.8 (STR).

LANF	0.60	104 Pg	17 08.56	-0.2		
SRBF	0.65	109 Pg	17 09.04	-0.5		
HOFF	0.71	105 Pg	17 10.66	0.1		
WLF	0.74	317 iPc	17 10.23	-0 8		
		iS	17 19.33			
CDF	0.75	162 Pg	17 10.66	-0.7		
		Sg	17 22.82			
WLS	0.77	158 Pg	17 11.01	-0.6		
ABH	0.86	28 ePg	17 12.29	-0.9		
ECH	0.92	170 Pg	17 13.81	-0.5		
		Sg	17 27.59			
VITF	1.10	215 Pg	17 16.28	-1.0		
		Sg	17 31.43			
MOF	1.28	174 Pg	17 20.96	0.5		
		Sg	17 38.91			
BSF	1.30	184 Pg	17 20.79	0.1		
FEL	1.45	149 Pg	17 24.19	1.2		
TNS	1.48	42 ePgc	17 24.60	1.3		
		eSn	17 43.20			
		iSg	17 51.00			
ENN	1.77	339 iPc	17 29.40	2.0		
		eS	17 52.00			
LOMF	1.78	182 Pg	17 29.80	2.1		
DOU	1.80	304 P	17 27.80	-0.1		
		iS	17 48.40			
SNF	2.20	310 P	17 32.70	-1.0		
KHC	4.37	87 ePg	18 24.80	20.2X		
	0.5s	1.70nm				
		eSn	18 53.50			
		eSg	19 16.00			
GEC2	4.47	91 Pn	18 05.10	-1.0		
		Sn	18 54.00			
		Sg	19 19.70			

S.D. = 1.1 on 18 of 19 obs.

MAY 08, 1993 05h 44m 38.35± 0.38s
44.305 N ± 2.8km 7.319 E ± 3.6km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.0 (LDG), 1.9 (GEN).

STV	0.06	176 P	44 41.69	1.0		
		S	44 43.54			
ENR	0.11	137 P	44 42.04	0.8		
		S	44 44.22			
PZZ	0.25	322 P	44 44.51	0.7		
		S	44 48.75			
TOUF	0.30	190 Pg	44 43.43	-1.2		
AUTN	0.32	166 Pg	44 45.16	0.1		
		Sg	44 49.35			
SAOF	0.36	152 Pg	44 45.35	-0.4		
		Sg	44 50.37			
ROB	0.40	91 P	44 46.80	0.3		
		S	44 51.33			
AURF	0.42	179 Pg	44 46.69	-0.2		
		Sg	44 52.47			
SBF	0.45	169 Pg	44 48.20	0.7		
		Sg	44 53.20			
BHB	0.54	356 P	44 48.40	-0.8		
		S	44 55.41			
IMI	0.57	134 P	44 49.45	-0.5		
		S	44 56.68			
FIN	0.65	98 P	44 51.20	-0.1		
		S	44 59.11			
RRL	0.72	328 P	44 52.85	0.1		
FRF	0.89	213 Pg	44 55.10	-0.3		
		Sg	45 06.90			
PCP	0.91	74 P	44 55.63	-0.2		
		S	45 07.67			
LRG	1.10	220 Pg	44 59.00	0.1		
		Sg	45 13.90			
LMR	1.13	211 Pg	44 59.60	0.0		
		Sg	45 14.40			

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

MAY 08, 1993 06h 09m 39.75± 0.99s
5.434 S ± 4.8km 152.019 E ± 6.6km
DEPTH = 59.2 ± 8.8 km
5.1mb (15 obs.)
NEW BRITAIN REGION, P.N.G. (192)

RAB	1.24	7 iPd-	10 01.00	-0.2		
PMG	6.23	230 eP	11 12.00	0.8		
		eS	12 23.00			
CTA	15.61	201 iPc	13 21.00	3.4X		
GUA	20.13	340 e(P)	13 54.50	-17.1X		
GUMO	20.19	339 e(P)	14 11.00	-1.2		
	1.1s	177.90nm		5.3mb		
DZM	21.64	141 iPc	14 26.60	-0.5		
BRS	21.85	178 iPc	14 28.00	-1.0		
	1.0s	3.00nm		3.7mb X		
		e	14 42.00			
MTN	21.89	249 eP	14 31.00	1.6		
OLP	22.31	199 eP	14 34.00	0.5		
WB2	22.44	228 iPc	14 34.90	0.0		
	0.6s	27.80nm		4.9mb		
		i	14 37.90			
		eS	18 37.20			
		eScP	22 16.90			
WRA	22.44	228 P	14 35.70	0.7		
ASPA	25.16	222 eP	15 01.40	0.2		
	0.8s	29.40nm		4.8mb		
	Z 20s	0.60um		4.1Msz		
		i	15 09.00			
		PP	15 19.20			
		eS	19 25.10			
STK	28.06	199 eP	15 27.10	-0.6		
	0.7s	1.70nm		3.8mb X		
WARB	31.84	227 eP	16 00.50	-0.8		
MBL	34.89	240 eP	16 27.00	-0.8		
		e	16 30.00			
MEEK	38.20	233 eP	16 55.00	-0.7		
		e	17 00.00			
SSE	46.76	323 P	18 01.40	-3.7X		
	Z 20s	0.60um		4.5Msz		
		i	19 38.00			
		S	25 16.00			
BJI	55.99	327 eP	19 13.50	-1.0		
	Z 20s	0.54um		4.6Msz		
KMI	56.70	305 Pd	19 21.00	0.8		
	1.5s	70.00nm		5.5mb		
		pP	19 31.50	35kmX		
CHTO	57.56	296 eP	19 26.60	0.6		
	1.4s	28.85nm		5.2mb		
LZH	61.14	316 iPc	19 51.00	0.3		
	1.4s	29.00nm		5.2mb		
	Z 20s	0.35um		4.5Msz		
		sP	20 09.60			
		ePP	21 44.50			
YAK	69.42	349 eP	20 42.00	-1.2		
GUN	71.78	302 P	20 58.80	0.1		
PKI	72.09	301 P	21 00.20	-0.3		
KKN	72.26	301 P	21 01.00	-0.4		
	0.8s	43.00nm		5.4mb		
DMN	72.36	301 P	21 02.00	0.0		
	1.1s	93.00nm		5.6mb		

GKN	72.87	301	P	21 04.80	-0.1
KDC	77.11	27	eP	21 28.30	0.1
SVW	77.70	23	eP	21 32.60	1.1
RSO	78.48	25	P	21 35.93	-0.1
TTA	78.64	22	eP	21 37.19	0.5
	0.8s	13.30nm		4.9mb	
CP2	79.13	24	eP	21 38.95	-0.7
CRP	79.17	24	eP	21 38.65	-1.1
SLKM	79.57	25	eP	21 41.16	-0.6
PMR	80.58	25	eP	21 46.89	-0.1
	0.8s	41.12nm		5.4mb	
IMA	81.31	20	ePc	21 50.99	0.0
	1.0s	10.23nm		4.7mb	
KLU	81.88	25	ePc	21 54.08	0.1
FBA	82.76	22	eP	21 57.63	-0.7
	0.9s	27.52nm		5.2mb	
BALM	83.24	27	ePd	22 01.43	0.4
BRW	83.57	15	eP	22 04.00	1.7
INK	89.32	21	eP	22 32.00	1.5
BONR	93.05	52	(P)	22 50.37	1.6
TNP	93.91	52	(P)	22 54.11	1.5
	0.8s	2.82nm		4.7mb	
MBC	94.91	14	eP	22 56.50	0.3
	1.0s	4.00nm		4.8mb	
YKA	96.35	28	eP	23 02.50	-0.4
	1.0s	4.50nm		5.0mb	
APO	116.62	338	ePKP	28 17.40	-1.1
	0.3s	1.40nm			
GEC2	124.18	328	PKP	28 37.20	3.7X
	0.6s	1.04nm			
CNCB	134.70	120	ePKP	28 52.00	-3.1X
LPB	134.72	120	ePKP	28 52.00	-2.9X
ZOBO	134.81	119	ePKP	28 55.00	-0.3
IFR	144.90	326	iPKPc	29 18.00	5.4X
			i	29 52.00	
AVE	146.31	328	iPKP	29 17.00	2.3X
TIO	148.03	325	iPKP	29 22.00	4.3X
	S.D. = 0.8	on	44 of	53 obs.	

& MAY 08, 1993 06h 51m 57.85s
57.785 N 156.322 W
DEPTH = 109.8km
3.7mb (1 obs.)
ALASKA PENINSULA (12)
<AEIC>.

MCNL	1.75	36	iP	52 26.71	-1.4
			eS	52 49.69	
CDD	1.82	50	iP	52 27.83	-1.2
			S	52 51.08	
KDC	2.05	89	ePc	52 30.22	-1.7
AUI	2.17	43	iP	52 32.14	-1.4
			eS	52 59.18	
AUW	2.18	42	iP	52 32.38	-1.3
AUL	2.20	42	iP	52 32.66	-1.3
AUE	2.21	43	iP	52 32.85	-1.1
SYI	2.24	67	iP	52 32.68	-1.7
			S	52 59.74	
PDB	2.29	28	iP	52 33.28	-1.9
			eS	53 00.97	
OPT	2.47	39	iP	52 35.97	-1.6
INW	2.82	34	iP	52 40.13	-2.2
INE	2.84	35	iP	52 40.40	-2.2
CNPM	3.18	55	iP	52 44.97	-2.0
			eS	53 20.12	
RS1	3.25	33	iP	52 45.89	-2.3
RS2	3.25	33	iP	52 45.95	-2.3
RDW	3.26	32	iP	52 45.85	-2.3
RSO	3.25	33	iP	52 45.90	-2.3
NCT	3.29	31	eP	52 46.16	-2.4
SVW	3.35	6	ePd	52 46.29	-3.1
SDN	3.37	225	eP	52 42.63	-6.8
			e	52 47.71	
SDN	3.37	225	eP	52 47.96	-1.5
			S	53 28.34	
DFR	3.38	32	eP	52 47.54	-2.3
BRLK	3.46	53	eP	52 47.86	-2.9
			eS	53 24.71	
NKA	3.95	39	eP	52 57.49	0.1
CKL	3.98	29	iP	52 56.13	-1.8
CKT	4.02	30	iP	52 55.80	-2.7
BGL	4.02	28	iP	52 56.25	-2.3
SPU	4.04	31	iP	52 55.95	-2.8
CKN	4.04	30	iP	52 56.94	-1.8
CP2	4.06	29	(P)	52 54.61	-4.6
CPAM	4 08	30	eP	52 57.23	-2.1
CRP	4.09	30	eP	52 56.55	-2.9
SLKM	4.16	46	eP	52 57.48	-2.9
SEW	4.25	54	eP	52 58.00	-3.5
MPA	4.49	50	iP	53 01.50	-3.4
SUA	4.65	35	iP	53 04.25	-2.9
PTE	4.85	47	eP	53 05.71	-4.0
SKT	4.85	28	iP	53 07.12	-2.7
PMS	4.89	42	P	53 06.60	-3.7
PWA	5.07	37	P	53 08.60	-4.1
PWL	5.12	50	eP	53 14.21	0.7
TTA	5.17	2	eP	53 08.73	-5.4
PLRM	5.28	41	eP	53 10.41	-5.2
PMR	5.28	41	eP	53 10.17	-5.4
			eS	54 03.65	
GHO	5.47	40	eP	53 13.32	-5.1
MID	5.47	68	P	53 14.60	-3.7
HIN	5.70	59	iP	53 17.47	-4.0
SML	5.70	42	iP	53 16.36	-5.2
SCM	6.09	44	iP	53 21.79	-5.1
VLZ	6.10	52	eP	53 22.59	-4.3
CVA	6.10	59	iP	53 22.59	-4.3
HUR	6.17	30	eP	53 23.92	-4.0
TRF	6.41	25	iP	53 27.12	-4.3
KLU	6.45	50	iP	53 27.26	-4.6
KAIM	6.54	66	eP	53 28.91	-4.0
RAGM	6.54	62	iP	53 29.10	-4.0
RND	6.73	30	iP	53 30.40	-5.2
TZL	6.94	47	eP	53 34.84	-3.6
MCK	6.97	28	iP	53 34.27	-4.7
SDG	7.17	44	iP	53 37.52	-4.1
GLB	7.33	55	iP	53 39.42	-4.3
SNH	7.37	65	eP	53 40.90	-3.4
CROM	7.38	61	iP	53 40.46	-4.2
PAX	7.48	41	eP	53 40.63	-5.2
TGL	7.52	61	iP	53 42.62	-3.9
NEA	7.66	24	eP	53 42.67	-5.5
MLY	7.75	18	eP	53 45.17	-4.3
WRH	7.80	27	eP	53 44.06	-6.0
BALM	7.84	60	iP	53 46.55	-4.2
YAH	7.94	65	iP	53 48.49	-3.8
CCB	8.01	27	iP	53 47.02	-6.0
MDM	8.17	25	eP	53 49.48	-5.8
FBA	8.22	26	eP	53 48.96	-6.9
CTGM	8.29	61	iP	53 53.08	-3.8
IMA	8.41	7	eP	53 53.21	-5.3
PRP	9.29	29	eP	54 04.79	-5.7
INK	14.65	35	eP	55 17.00	-3.5
YKA	21.01	60	eP	56 29.40	-4.3
	0.6s	2.40nm		3.7mb	
MBC	22.73	22	eP	57 09.50	19.0
	79 obs. ossociated				

MAY 08, 1993 07h 00m 20.74± 0.29s
35.614 N ± 7.3km 78.414 E ± 6.8km
DEPTH = 25.1km (2 depth phases)
4 6mb (28 obs.) 3.8Msz (1 obs.)
EASTERN KASHMIR (302)

GKN	9.25	143	P	02 35.10	-0.6
KKN	9.75	141	P	02 40.40	-2.2
DMN	9.81	143	P	02 43.00	-0.5
GUN	9.96	138	P	02 45.80	0.0
PKI	9.99	141	P	02 44.80	-1.3
QUE	11.05	244	eP	03 03.00	2.6
			eS	07 27.70	
MAIO	15.34	278	eP	04 07.00	9.7X
			e	06 50.00	
POO	17.49	195	eP	04 17.00	-7.6X
LZH	20.61	81	eP	05 02.00	1.2
	1.5s	32.00nm		4.5mb	
Z	12s	0.26um		3.8MszX	
E	10s	0 23um			
			pP	05 08.50	24km
GBA	21.93	183	P	05 18.00	3.9X
			S	09 18.00	
CHTO	24.68	127	eP	05 42.70	1.7
	1.2s	22.92nm		4.6mb	
OBN	34.57	318	eP	07 09.00	-0.2
	0.9s	28.00nm		5.2mb	
			e	07 25.00	65kmX
MLR	40.43	301	ePc	08 01.00	2.3
KAF	41.67	326	iP	08 08.30	-0.1
	0.5s	1.90nm		4.1mb	
NUR	42.09	323	iP	08 12.40	0.5
	0.4s	5.70nm		4.7mb	
UPP	45.48	322	eP	08 39.00	-0.3
HFS	47.46	322	eP	08 54.20	-0.8
	0.6s	6.90nm		4.8mb	
PRU	47.59	308	eP	08 56.00	-0.2
GEC2	48.31	307	P	09 02.80	0.9
	0.8s	1.98nm		4.2mb	
			e	09 10.60	26km
KHC	48.34	307	eP	09 02.50	0.4
CLL	48.39	310	iP	09 03.40	1.1
	1.6s	14.00nm		4.7mb	
NB2	48.69	323	P	09 03.90	-0.7
	0.9s	7.00nm		4.7mb	
GRF	49.76	308	eP	09 14.50	1.5
Z	21s	0.10um		3.8Msz	
PGF	52.97	300	eP	09 36.60	-0.8
	0.8s	4.05nm		4.4mb	
BSF	53.02	307	iPc	09 37.20	-0.6
	0.9s	9.65nm		4.7mb	
HAU	53.27	307	eP	09 39.00	-0.5
LPG	53.67	304	iPc	09 42.70	-0.1
	0.8s	6.45nm		4.7mb	
SBF	53.67	302	iPc	09 42.30	-0.2
	0.7s	9.50nm		4.9mb	
LPL	53.68	304	iPc	09 42.70	0.0
	0.7s	7.05nm		4.8mb	
FRF	54.31	302	eP	09 46.60	-0.5
	0.6s	2.00nm		4.3mb	
LRG	54.54	302	eP	09 48.30	-0.5
LOR	55.09	307	eP	09 51.60	-1.2
LBF	55.09	306	eP	09 51.70	-1.2
	0.7s	2.10nm		4.3mb	
SMF	55.28	306	iPc	09 53.30	-0.9
	0.6s	5.25nm		4.7mb	
SSF	55.38	307	iPc	09 53.90	-1.0
	0.6s	3.45nm		4.6mb	
AVF	55.56	306	iPc	09 55.30	-0.9
	0.5s	2.50nm		4.5mb	
MAF	56.25	306	iPc	10 00.80	-0.4
CAF	57.00	305	eP	10 06.30	-0.3
	0.5s	1.60nm		4.3mb	
LDF	57.25	309	iPc	10 07.20	-1.0
	0.7s	11.00nm		5.0mb	
LPO	57.67	305	eP	10 10.70	-0.5
GRR	57.77	309	iPc	10 11.00	-0.9
	0.8s	17.05nm		5.1mb	
MFF	57.91	307	eP	10 11.70	-1.1
	0.6s	3.05nm		4.5mb	
MBC	67.84	5	ePd	11 18.20	-0.1
	0.5s	3.00nm		4.7mb	
IMA	71.03	20	eP	11 38.70	0.5
	1.0s	2.00nm		4.2mb	
FBA	73.51	19	eP	11 54.40	1.7
	0.8s	2.59nm		4.3mb	
INK	73.68	12	eP	11 55.00	1.4
SLKM	76.27	22	(P)	12 08.44	-0.2
WRA	76.53	127	P	12 12.90	2.3
	0.8s	1.50nm		4.1mb	
FRB	77.56	346	eP	12 07.00	-8.6X
KIC	80.77	271	P	12 34.80	0.8
TIC	80.84	272	P	12 34.90	0.6
LIC	81.09	271	P	12 36.20	0.6
YKA	81.67	6	eP	12 37.20	-0.5
	0.6s	1.00nm		4.0mb	
	S.D. = 1.1	on	49 of	53 obs.	

% MAY 08, 1993 07h 44m 03.91± 0.74s
26.371 S ± 5.9km 27.397 E ± 8.1km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.6 (PRE).

PRY	0.56	173	eP	44 14.50	-0.6
			S	44 22.00	
KSR	0.68	318	eP	44 17.50	0.1
			S	44 25 10	
SLR	1.02	52	eP	44 23.00	-0.7
			S	44 34.60	
SEK	1.96	174	eP	44 39.00	0.8
			S	45 02.00	
BFT	2.48	75	eP	44 46.50	0.7
			S	45 16.00	
BLF	2.93	201	eP	44 52.00	-0.2
	S.D. = 0.8	on	6 of	6 obs.	

% MAY 08, 1993 07h 52m 21.72± 0.68s
44.450 N ± 5.9km 7.322 E ± 7.3km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.6 (GEN).

08d 07h

PZZ 0.17 289 P 52 25.59 0.0
S 52 27.79
STV 0.21 180 P 52 26.28 0.0
S 52 29.12
ENR 0.23 162 P 52 27.10 0.3
S 52 30.40
BHB 0.39 354 P 52 29.85 0.0
S 52 34.20
ROB 0.42 111 P 52 30.49 0.1
S 52 37.26
IMI 0.68 143 P 52 34.75 -0.4
S 52 44.54
S.D. = 0.3 on 6 of 6 obs.

? MAY 08, 1993 08h 10m 51.73± 1.90s
35.368 S ± 9.7km 179.847 E ±18.5km
DEPTH = 10.0km (geophysicist)
4.1mb (3 obs.)
OFF E. COAST OF N. ISLAND, N.Z. (160)
ML 4.1 (WEL).

PUZ 2.99 205 P 11 40.80 0.8
eS 12 11.40
NOZ 3.55 204 eP 11 48.00 0.0
KUZ 3.62 246 P 11 48.70 -0.2
URZ 3.63 216 P 11 48.60 -0.5
eS 12 22.90
WLZ 4.23 233 eP 11 57.00 -0.7
WCZ 4.52 261 eP 12 02.10 0.4
MOZ 5.11 231 eP 12 10.30 0.2
OUZ 5.11 270 P 12 10.60 0.4
MNG 6.27 212 eP 12 21.30 -5.3X
eS 13 25.50
ASPA 41.32 274 eP 18 39.70 0.5
0.8s 3.00nm 4.1mb
WB2 42.75 279 eP 18 49.70 -1.3
0.5s 5.70nm 4.6mb
WRA 42.76 279 P 18 51.50 0.4
0.6s 1.60nm 3.9mb
GBA 107.79 274 PKP 29 38.00 16.7X
S.D. = 0.7 on 11 of 13 obs.

? MAY 08, 1993 08h 46m 38.05± 0.72s
28.731 N ±15.4km 95.872 E ± 8.1km
DEPTH = 33.0km (normal)
4.7mb (6 obs.)
EASTERN XIZANG-INDIA BORDER REG.(313)

KMI 7.10 119 eP 48 31.50 8.9X
pP 48 37.00
GUN 8.85 267 P 48 46.80 -0.1
PKI 9.31 265 P 48 52.80 -0.5
KKN 9.39 267 P 48 54.00 -0.3
DMN 9.57 266 P 48 57.00 0.2
GKN 9.92 268 P 49 00.60 -1.0
LZH 9.96 41 iPc 48 59.80 -2.3
1.2s 33.00nm 5.5mb
Z 12s 0.31um 3.7Msz
E 10s 0.23um
WRA 61.00 138 P 56 51.00 0.2
0.6s 3.30nm 4.6mb
WB2 61.01 138 iPc 56 50.60 -0.2
0.4s 10.90nm 5.3mb
APO 61.54 326 eP 56 58.20 4.2X
0.4s 0.60nm 4.0mb
NB2 62.77 327 P 57 04.00 1.8
0.7s 0.80nm 4.0mb
ASPA 63.68 141 eP 57 08.40 -0.2
0.6s 5.50nm 4.8mb
YKA 85.87 14 eP 59 17.80 2.4
0.4s 0.10nm 3.4mb X
S.D. = 1.4 on 11 of 13 obs.

• MAY 08, 1993 08h 46m 43.73± 0.90s
26.374 S ± 7.1km 27.434 E ± 9.5km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.4 (PRE).

PRY 0.55 176 eP 46 53.90 -0.9
S 46 59.90
KSR 0.70 316 eP 46 56.90 -0.9
S 47 06.00
SLR 0.99 50 eP 47 03.50 0.4
S 47 15.90
SEK 1.95 175 eP 47 18.20 0.2
S 47 43.50
SWZ 2.05 246 eP 47 20.60 1.2
S 47 46.00
S.D. = 1.3 on 5 of 5 obs.

? MAY 08, 1993 08h 57m 57.87± 1 87s
45.546 N ± 9.0km 21.205 E ±14.7km
DEPTH = 10.0km (geophysicist)
ROMANIA (358)

TIM 0.19 4 iPc 58 02.00 -0.1
BZS 0.30 76 iPc 58 03.00 -1.1
SSR 0.78 151 iPc 58 13.00 -0.1
GZR 1.12 97 iPd 58 19.00 0.1
DEV 1.24 74 iPd 58 22.00 1.1
TNR 2.16 86 ePc 58 38.00 3.6X
MLR 3.33 89 eP 59 00.50 9.3X
S.D. = 1.1 on 5 of 7 obs.

• MAY 08, 1993 09h 17m 13.61± 1.09s
22.033 S ± 6.8km 70.343 W ±13.1km
DEPTH = 58.5 ± 18.5 km
4.1mb (1 obs.)
NEAR COAST OF NORTHERN CHILE (122)

ANT 1.67 182 iP+ 17 41.30 0.4
iS 18 05.00
YJA 4.49 93 ePc 18 20.20 -0.9
SLA 5.20 122 ePc 18 30.60 -0.3
ARE 5.65 349 eP 18 36.00 -1.3
e 19 38.00
CNCB 5.65 24 P 18 38.70 1.1
FSA 5.65 136 e(P) 18 40.00 3.0X
LPB 5.87 22 P 18 41.20 0.7
1.0s 100.00nm 5.1mb X
CCH 6.09 41 P 18 44.00 0.5
ZOBO 6.10 20 P 18 43.40 -0.5
1.0s 42.50nm 4.8mb X
SIV 10.63 57 P 19 53.00 7.2X
YKA 91.25 341 eP 30 13.30 0.0
0.6s 0.50nm 4.1mb
S.D. = 1.0 on 9 of 11 obs.

? MAY 08, 1993 09h 30m 31.06± 4 54s
55.299 N ±90.0km 158.388 E ±18.7km
DEPTH = 33.0km (normal)
4.4mb (13 obs.)
KAMCHATKA (217)

YKA 42.23 44 eP 38 22.10 0.0
0.4s 0.20nm 3.2mb X
NB2 61.14 342 P 40 44.00 0.0
0.5s 1.00nm 4.2mb
HFS 61.54 341 eP 40 46.80 0.2
0.5s 2.00nm 4.5mb
CDF 73.85 340 iPd 42 03.70 -0.2
0.6s 1.70nm 4.2mb
HAU 74.42 341 eP 42 06.80 -0.3
0.4s 1.90nm 4.4mb
LOR 75.58 342 iPd 42 13.20 -0.5
0.6s 2.80nm 4.4mb
AVF 76.13 343 iPd 42 16.60 -0.2
0.8s 4.05nm 4.5mb
LPL 76.74 340 iPd 42 20.80 0.3
0.5s 2.05nm 4.4mb
LPG 76.75 340 iPd 42 21.00 0.3
0.6s 3.00nm 4.5mb
TCF 76.81 343 iPd 42 20.50 -0.2
0.7s 3.00nm 4.4mb
MAF 76.81 343 iPd 42 20.90 0.2
0.6s 4.35nm 4.7mb
LSF 76.95 344 iPd 42 21.90 0.4
0.6s 2.80nm 4.5mb
CAF 78.15 343 eP 42 28.30 0.2
0.7s 3.00nm 4.4mb
LPO 78.53 344 iPd 42 30.30 0.1
0.5s 1.95nm 4.4mb
S.D. = 0.3 on 14 of 14 obs.

? MAY 08, 1993 09h 32m 47.58± 6.19s
34.790 N ±37.3km 26.763 E ±40.1km
DEPTH = 10.0km (geophysicist)
CRETE (370)
ML 3.7 (CSS), 3.5 (ISK).

YER 2.64 27 iPn 33 30.00 -1.1
CIN 3.00 21 eP 33 37.00 1.0
ELL 3.22 52 iPn 33 39.60 0.3
IZM 3.62 6 ePn 33 45.00 0.1
BCK 4.09 48 ePn 33 52.00 0.5
KHL 4.17 31 ePn 33 52.00 -0.7
CSS 5.40 86 eP 34 10.00 -0.2
eS 35 07.70
S.D. = 0.9 on 7 of 7 obs.

% MAY 08, 1993 10h 31m 53.28± 1.70s
41.819 N ±18.6km 27.842 E ±10.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 3.0 (ISK).

DMK 0.06 272 iPg 31 55.60 0.0
iSg 31 59.10
CTT 0.80 146 iPg 32 09.00 0.1
iSg 32 23.30
ISK 1.19 129 iPn 32 15.50 0.1
BNT 1.46 178 ePn 32 19.50 -0.2
EDC 1.47 179 ePn 32 20.00 0.2
YLV 1.70 137 ePn 32 23.00 -0.3
S.D. = 0.2 on 6 of 6 obs.

• MAY 08, 1993 10h 39m 47.60± 1.26s
50.458 N ±17.2km 18.840 E ± 7.1km
DEPTH = 10.0km (geophysicist)
POLAND (548)
ML 3.2 (WAR).

RAC 0.56 228 ePg 39 59.00 0.1
eSg 40 06.00
OJC 0.66 111 ePg 40 00.00 -0.7
iSg 41 28.80
SPC 1.56 144 iPn 40 16.60 1.0
iSn 40 36.30
Lg 40 38.00
KSP 1.67 284 ePn 40 18.00 1.0
0.7s 72.00nm
iPg 40 19.80
iSg 40 42.40
ZST 2.53 207 eP 40 38.10 8.7X
e 41 07.30
e 41 24.20
SRO 2.67 188 eP 40 42.70 11.3X
PRU 2.80 262 ePn 40 32.50 -0.7
ePg 40 43.00
eSg 41 17.50
BRG 3.14 280 ePg 40 45.10 7.1X
iSg 41 28.30
KHC 3.66 251 ePn 40 44.40 -1.1
0.5s 2.30nm
ePg 40 57.00
eSn 41 24.00
eSg 41 38.50
GEC2 3.71 246 Pn 40 46.70 0.5
Pg 40 57.00
Sg 41 44.60
S.D. = 1.1 on 7 of 10 obs.

& MAY 08, 1993 10h 54m 02.79s
35.015 N 116.964 W
DEPTH = 5.9km
CENTRAL CALIFORNIA (39)
<PAS-P>. ML 3.0 (PAS).

GSC 0.31 24 iPd 54 08.78 -0.4
SSK 1.00 217 iPd 54 21.10 -1.2
eS 54 34.25
PEC 1.13 188 ePd 54 23.36 -1.0
eS 54 37.53
ISA 1.39 298 ePc 54 27.30 -1.5
PLM 1.66 177 eP 54 31.56 -1.2
eS 54 54.47
ABL 1.86 266 (P) 54 35.80 0.1
TPNV 2.01 17 eP 54 37.40 -0.5
GLA 2.64 137 ePn 54 48.11 1.4
TNP 3.07 356 (Pn) 54 53.35 0.4
MMPM 3.08 328 (Pn) 54 52.45 -0.7
ePg 54 59.22
MEMM 3.09 330 (Pn) 54 52.73 -0.2
ePg 55 01.24
BONR 3.13 340 (Pn) 54 52.43 -1.4
ePg 55 01.92
ARUT 3.97 45 ePn 55 05.34 -0.3
13 obs. associated

% MAY 08, 1993 11h 15m 02.94± 1.22s

39.566 N ±11.7km 28.823 E ± 8.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

KCT	0.77	332	iPg	15 18.50	0.5
			eSg	15 29.50	
BNT	1.05	319	ePn	15 22.50	-0.3
EDC	1.07	317	ePn	15 23.00	-0.1
YLV	1.08	23	iPn	15 23.00	-0.4
ALT	1.12	117	ePn	15 24.00	0.0
			eSg	15 39.00	
EYL	1.43	45	ePn	15 29.30	0.3

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

? MAY 08, 1993 11h 18m 40.87± 2.49s
18.240 N ±21.8km 103.254 W ±19.9km
DEPTH = 77.7 ± 18.9 km
3.1mb (1 obs.)
NEAR COAST OF MICHOACAN, MEXICO (56)

CGX	1.47	352	iP	19 06.50	0.2
MRX	2.44	53	iP	19 18.20	-1.0
			(S)	19 47.00	
ACX	3.51	112	(P)	19 34.00	-0.3
CRX	3.58	71	(P)	19 36.20	0.7
III	3.60	87	iP	19 32.30	-3.3X
			iS	20 19.00	
IIA	4.45	78	(P)	19 57.50	10.1X
PPM	4.46	79	(P)	19 48.50	0.4
IISM	5.62	81	(P)	20 12.50	8.8X
YKA	44.91	353	eP	26 49.20	-0.1
	0.6s		0.20nm		3.1mb

S.D. = 1.0 on 6 of 9 obs.

& MAY 08, 1993 11h 57m 48.40s
34.953 N 116.929 W
DEPTH = 0.0km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 3.6 (PAS), 3.3 (GS).
Felt at Borstow.

GSC	0.36	16	iPd	57 55.70	0.1
SSK	0.97	221	iPd	58 06.64	-1.3
			eS	58 18.29	
PEC	1.08	190	iPd	58 08.47	-1.1
			eS	58 22.79	
ISA	1.45	300	eP	58 14.37	-1.5
			eS	58 34.69	
PLM	1.60	178	eP	58 17.47	-0.7
			eS	58 38.38	
ABL	1.89	268	ePnc	58 21.97	-0.4
			ePg	58 23.31	
			eS	58 47.32	
TPNV	2.07	15	ePn	58 24.23	-0.7
			ePg	58 26.82	
			eS	58 53.14	
GLA	2.58	137	(Pn)	58 29.26	-2.9
BCH	2.60	276	ePn	58 30.55	-2.0
PHAM	2.97	288	eP	58 35.90	-1.8
MRCM	3.00	335	ePn	58 37.40	-0.9
TNP	3.13	356	ePn	58 38.70	-1.5
MMPM	3.15	328	(Pn)	58 38.46	-2.0
			eS	59 27.42	
BONR	3.19	340	ePn	58 40.24	-0.9
ARUT	3.99	44	ePn	58 51.06	-1.3
CMB	4.15	319	ePn	58 53.35	-1.1
			eS	59 54.55	
ARN	4.43	304	ePn	58 56.17	-2.3
COE	4.48	302	(P)	58 57.33	-1.8
MSU	5.22	46	ePn	59 08.37	-1.5
			ePg	59 23.77	
DUG	6.17	31	(Pn)	59 22.28	-0.9
			ePg	59 43.69	
SRU	6.59	49	(Pn)	59 29.19	0 0
PV10	7.20	59	(Pn)	59 36.91	-0.9
PV08	7.57	59	(Pn)	59 41.94	-1.1
			ePg	00 02.99	

23 obs. ossocioted

MAY 08, 1993 12h 01m 54.89± 0.52s
21.047 S ± 7.6km 66.667 W ± 9.5km
DEPTH = 253.3 ± 8.1 km
3.4mb (1 obs.)
SOUTHERN BOLIVIA (125)

YJA	1.56	136	iPd	02 34.60	-0.2
			S	03 04.00	
CCH	3.68	8	P	02 52.90	-3.0X
			i	03 41.30	
SLA	3.82	164	ePd	02 58.50	1.1
ANT	4.36	232	iP	03 02.70	-0.9
			iS	03 53.50	
CNCB	4.39	343	P	03 05.00	0.4
LPB	4.69	343	eP	03 08.00	0.0
ZOBO	4.95	344	P	03 11.00	-0.3
SIV	7.31	47	Pd	03 52.80	12.5X
PPD	14.32	97	(P)	05 08.00	-0.1
VAO	18.37	100	(P)	05 53.00	-0.5
CACB	18.58	96	eP	05 55.80	0.1
LIC	66.25	73	P	12 17.70	-0.6
YKA	91.47	340	eP	14 34.00	0.9
	0.6s		0.30nm		3.4mb

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

? MAY 08, 1993 12h 04m 31.44± 1.23s
39.104 N ± 8.8km 27.724 E ±14.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

IZM	0.79	207	iPg	04 46.80	-0.1
			iSg	04 59.80	
KCT	1.24	23	ePn	04 55.00	0.4
EDC	1.25	5	ePn	04 54.00	-0.6
EZN	1.30	304	ePn	04 55.70	0.2

S.D. = 0.8 on 4 of 4 obs.

% MAY 08, 1993 13h 03m 06.00± 0.70s
41.101 N ± 6.9km 28.765 E ± 4.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

ISK	0.23	99	iPg	03 10.90	0.1
			iSg	03 15.90	
YLV	0.71	139	ePg	03 19.90	-0.1
			eSg	03 29.40	
HRT	0.74	112	iPn	03 20.40	-0.1
KCT	0.91	200	ePn	03 22.90	-0.5
BNT	0.98	221	ePn	03 24.40	-0.3
EDC	1.02	223	ePn	03 26.00	0.7
DMK	1.04	314	iPn	03 25.60	-0.1
EYL	1.18	116	ePn	03 28.40	0.2

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

? MAY 08, 1993 13h 20m 36.28± 1.79s
40.435 N ±13.3km 21.664 E ±11.9km
DEPTH = 10.0km (geophysicist)
GREECE (364)

FNA	0.41	328	iPg	20 44.72	0.0
			eSg	20 50.78	
LIT	0.71	118	ePg	20 50.36	0.0
			eSg	21 00.58	
GRG	0.77	47	ePg	20 50.92	-0.3
			eSg	21 02.00	
KNT	1.19	52	ePg	20 58.72	0.3
			eSg	21 15.22	

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

? MAY 08, 1993 13h 21m 29.13± 3.77s
39.117 N ±33.3km 64.350 E ±26.3km
DEPTH = 180.8 ± 44.8 km
4.0mb (7 obs.)
NORTHWESTERN UZBEKISTAN (339)

MAIO	4.77	235	iPnc	22 40.70	-0.2
	0.8s		19.03nm		
			eSn	23 39.00	
PKI	20.97	117	P	26 00.00	0.5
KAF	32.58	327	iP	27 44.50	-0.4
	0.4s		1.80nm		4.1mb
GEC2	37.10	302	P	28 24.40	0.9
	0.7s		0.61nm		3.4mb
			e	28 32.90	
HFS	37.74	321	eP	28 28.30	-0.2
	0.7s		5.00nm		4.3mb
NB2	39.10	322	P	28 39.80	-0.1
	0.5s		1.90nm		4.0mb
MBC	64.90	1	eP	31 57.00	6.6X
FBA	73.30	14	eP	32 50.70	8.8X
	0.8s		2.41nm		4.0mb
YKA	78.73	360	eP	33 20.50	8.3X
	0.6s		1.20nm		3.8mb
WB2	87.87	118	eP	33 58.60	-0.6
	0.5s		2.40nm		4.4mb

S.D. = 0.8 on 7 of 10 obs.

MAY 08, 1993 13h 30m 13.29± 0.31s
47.141 N ± 4.2km 10.547 E ± 2.6km
DEPTH = 10.0km (geophysicist)
AUSTRIA (546)
ML 2.8 (LDG), 2.7 (FUR), 2.6 (VIE).

OGA	0.43	130	iPgd	30 22.20	0.1
MOTA	0.43	62	iPgc	30 21.30	-0.8
			iSg	30 28.80	
SOTA	0.46	80	iPgc	30 22.10	-0.6
			iSg	30 30.20	
OSS	0.53	211	iPc	30 23.30	-0.8
WATA	0.73	74	iPgc	30 26.90	-0.8
			iSg	30 38.20	
WTTA	0.75	80	iPgc	30 27.40	-0.8
			iSg	30 39.40	
SCE	0.80	97	iPgd	30 28.50	-0.5
VDL	0.99	229	ePc	30 31.40	-0.8
LLS	1.09	256	ePc	30 34.20	0.2
FUR	1.14	25	iPnc	30 35.60	1.0
CTI	1.33	145	P	30 38.00	0.1
ZLA	1.51	284	ePd	30 42.10	1.7
SLE	1.53	295	ePc	30 41.20	0.5
TMA	1.55	229	ePd	30 42.00	0.9
FVI	1.63	109	P	30 46.00	4.0X
FEL	1.87	294	ePn	30 45.13	-0.6
KBA	1.91	91	iPnc	30 48.30	1.9
			iPg	30 50.30	
			i	30 58.60	
			iSg	31 18.20	
GRC1	1.97	19	iPnc	30 46.10	-0.9
			ePg	30 50.20	
			eSg	31 14.40	
MMK	2.09	239	iPd	30 51.90	2.9X
RBL	2.19	108	P	30 51.00	0.7
DIX	2.41	245	eP	30 58.20	4 6X
WET	2.54	37	iPd	30 55.00	-0.3
CDF	2.55	301	Pn	30 53.90	-1.5
			Pg	31 01.80	
			Sg	31 33.60	
BSF	2.64	287	Pn	30 56.40	-0.3
			Pg	31 03.80	
			Sn	31 26.10	
			Sg	31 37.30	
KHC	2.84	44	ePn	31 01.00	1.4
	0.6s		4.00nm		
			ePg	31 10.00	
			eSn	31 34.00	
			Sg	31 44.00	
HAU	2.97	288	Pn	31 01.60	0 2
			Sg	31 47.70	
LPG	3.10	239	Pn	31 06.60	3.2X
LPL	3.10	240	Pn	31 06.40	3.0X
SMF	4.62	266	Pn	31 25.40	0.6
SSF	4.81	272	Pn	31 26.80	-0.7
AVF	4.94	269	Pn	31 29.10	-0.1

S.D. = 0.9 on 26 of 31 obs.

& MAY 08, 1993 13h 48m 19.70s
37.935 N 121.982 W
DEPTH = 10.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 3.0 (BRK), 2.6 (GS).
Felt at Concord and Walnut Creek.

CRPM	0.06	110	P	48 21.79	-0.2
CPIM	0.19	286	P	48 23.98	0.0
BKS	0.21	254	iPc	48 24.15	-0.1
			iS	48 27.49	
CMCM	0.22	225	P	48 24.45	0.1
ZSP	0.22	273	iPc	48 24.30	-0.1
HMR	0.26	33	eP	48 25.67	0.4
			eS	48 28.17	
CPMM	0.34	273	P	48 26.15	-0.5
CVAL	0.36	151	P	48 27.94	0.8
CCYM	0.39	193	P	48 27.54	-0.2
JPRM	0.41	250	P	48 27.75	-0.4
MSJ	0.42	168	P	48 28.62	0.3
MGA	0.49	233	P	48 29.05	-0.6
PCC	0.54	216	ePc	48 29.96	-0.6

08d 13h

STAN	0.55	196	ePd	48	30.55	-0.4
BBR	0.55	306	P	48	30.02	-0.9
JEGM	0.57	222	ePc	48	30.35	-0.8
			eS	48	38.28	
CMMM	0.62	141	P	48	32.08	-0.1
LOC	0.62	291	P	48	30.95	-1.2
JBMM	0.63	192	P	48	32.02	-0.4
MHC	0.65	155	iPd	48	32.34	-0.4
ARN	0.68	148	iPd	48	32.91	-0.4
			eS	48	43.80	
LT3	0.69	195	P	48	33.31	-0.1
NTYM	0.70	310	ePc	48	32.45	-1.1
			eS	48	43.18	
COE	0.72	160	ePd	48	33.73	-0.1
JSTM	0.74	169	P	48	34.25	0.0
NCFM	0.75	301	P	48	33.11	-1.2
NBPM	0.75	347	P	48	34.04	-0.3
SOS	0.77	177	P	48	34.74	0.0
LT15	0.77	183	P	48	34.81	0.0
NPRM	0.82	275	P	48	31.72	-3.8
JHLM	0.83	172	P	48	35.65	-0.2
JRRM	0.90	167	P	48	36.56	-0.4
GCC	0.90	181	iPd	48	36.22	-0.8
			eS	48	48.87	
JUCM	0.93	183	P	48	37.25	-0.3
GHS	0.94	153	P	48	36.91	-0.8
MNHM	0.95	77	P	48	35.93	-1.8
GAXM	0.98	322	P	48	36.77	-1.6
JELM	1.01	173	P	48	40.38	1.5
GCRM	1.02	326	P	48	37.60	-1.4
ADWM	1.03	60	P	48	37.38	-1.7
PCL	1.04	148	P	48	38.86	-0.4
SFL	1.06	154	P	48	38.68	-0.9
MCUM	1.08	88	P	48	38.20	-1.8
FTR	1.10	303	P	48	38.90	-1.4
APRM	1.12	32	P	48	39.60	-1.0
SKG	1.12	314	P	48	40.06	-0.6
GCVM	1.16	316	P	48	40.24	-1.2
HJSM	1.24	154	P	48	41.31	-1.5
SAO	1.24	160	eP	48	41.09	-1.7
CMB	1.27	85	iPc	48	41.38	-1.9
BVYM	1.27	159	P	48	41.93	-1.3
GDCM	1.29	310	P	48	43.74	0.1
BCWM	1.66	168	P	48	46.75	-2.4
ORV	1.66	13	eP	48	47.38	-1.6
MMPM	2.36	97	eP	48	58.98	-0.5
MEMM	2.43	95	eP	48	59.92	-0.1
BONR	2.91	88	ePn	49	07.43	0.3

57 obs. associated

% MAY 08, 1993 13h 52m 47.14± 0.63s
26.378 S ± 5.6km 27 416 E ± 6.3km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.6 (PRE).

PRY	0.55	175	eP	52	57.90	-0.3
			S	53	03.30	
KSR	0.69	317	eP	53	00.90	-0.1
			S	53	08.00	
BFS	0.77	227	eP	53	03.30	0.7
			S	53	14.20	
SLR	1.01	51	eP	53	07.50	0.7
			S	53	19.60	
SEK	1.95	175	eP	53	22.30	1.0
			S	53	46.50	
SWZ	2.03	246	eP	53	22.30	-0.3
			S	53	47.00	
BFT	2.46	74	eP	53	28.00	-0.8
			S	53	57.50	
BLF	2.93	202	eP	53	34.50	-0.9
			S	54	08.00	

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

? MAY 08, 1993 14h 09m 30.72±13.82s
19.099 N ±91.5km 67.285 W ±65.5km
DEPTH = 33.0km (normal)
MONA PASSAGE (89)

APR	0.83	141	P	09	46.00	0.0
LRS	0.90	152	P	09	46.80	-0.3
MGP	1.10	170	P	09	50.00	0.1
PORP	1.21	149	P	09	51.10	-0.3
CLLP	1.22	146	P	09	51.60	0.1
SJG	1.46	132	iP	09	55.50	0.5
LPR	1.55	120	P	09	56.20	-0.2

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

% MAY 08, 1993 14h 21m 07.15± 3.08s
38.696 N ±10.9km 15.467 E ±20.4km
DEPTH = 114.6 ± 41.2 km
SICILY (398)

ATN	0.53	180	P	21	24.70	-0.3
CZI	0.74	45	P	21	26.80	0.3
SOI	0.78	143	P	21	27.00	0.2
			eSn	21	45.00	
ROI	1.22	44	P	21	31.20	-0.3
CSI	1.25	30	P	21	31.70	-0.1
MGR	1.44	3	P	21	33.90	0.0
SGO	1.86	356	P	21	39.10	0.1
FAI	2.00	226	P	21	40.90	0.0

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

• MAY 08, 1993 14h 39m 42.38± 1.08s
18.902 S ±10.1km 70.081 W ±12.2km
DEPTH = 81.4 ± 13.1 km
4.4mb (1 obs.)
NEAR COAST OF NORTHERN CHILE (122)
Felt (IV) at Iquique, Arica and Putre; (II) at Parinacota. Landslides occurred at Arica Hills and along the A-5 south highway. Also felt (IV) at Tocna, Peru.

ARE	2.77	331	iP	40	26.90	1.1
			iS	40	48.60	
CNCB	2.88	44	iPc	40	28.10	0.5
LPB	3.02	39	Pc	40	28.90	-0.4
	1.2s	1000.00nm				
ZOBO	3.22	36	iPc	40	30.80	-1.4
CCH	4.05	69	P	40	43.80	0.3
ANT	4.79	184	eP	40	53.00	-0.6
YJA	5.38	128	ePc	41	07.80	5.5X
SLA	7.19	144	ePc	41	37.50	10.4X
			S	42	48.00	
SIV	9.07	73	Pd	42	03.80	11.0X
NNA	9.47	316	eP	42	09.30	11.1X
			eS	44	07.80	
CACB	22.07	101	(P)	44	34.00	2.0
KIC	69.07	75	P	50	41.00	-1.0
YKA	88.38	341	eP	52	25.60	-0.4
	0.6s	1.70nm			4.4mb	
WB2	134.56	213	ePKP	58	58.00	4.3X
	0.4s	1.90nm				
WRA	134.57	213	PKP	58	59.50	5.8X
	0.6s	0.70nm				

S.D. = 1.3 on 9 of 15 obs.

• MAY 08, 1993 14h 40m 06.20± 0.79s
23.274 N ±11.2km 37.358 E ±10.9km
DEPTH = 10.0km (geophysicist)
4.6mb (6 obs.)
RED SEA (554)

WAJH	2.98	346	eP	40	53.00	-1.3
AYN	5.70	348	iP	41	32.33	-0.7
HQL	6.32	341	iPc	41	41.67	0.0
MJMA	7.66	69	eP	42	01.00	0.4
DHJN	8.01	133	eP	42	05.00	-0.8
GEC2	31.64	330	P	46	31.80	0.2
	0.9s	2.09nm			4.0mb	
OBN	31.79	359	eP	46	34.00	1.3
	1.5s	28.00nm			5.0mb	
KHC	31.90	330	eP	46	34.60	0.7
BRG	33.00	332	iP	46	44.20	0.8
	1.0s	10.00nm			4.7mb	
GRF	33.39	329	eP	46	46.00	-0.9
CLL	33.73	332	eP	46	50.00	0.3
	1.5s	11.00nm			4.6mb	
MOX	33.87	330	eP	46	51.30	0.4
	1.3s	11.00nm			4.6mb	
HYB	38.97	91	eP	47	34.70	0.2
NB2	41.84	341	P	47	57.20	-0.5
	1.1s	5.90nm			4.2mb	

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

MAY 08, 1993 14h 42m 59.28± 0.26s
4.352 S ± 5.7km 79.300 W ± 6.8km
DEPTH = 98.8km (3 depth phases)
4.7mb (37 obs.)
PERU-ECUADOR BORDER REGION (110)

NNA	7.97	162	eP	44	45.30	-8.9X
	0.6s	26.67nm			5.0mb	
			eS	46	20.00	
ZOBO	16.15	138	P	46	40.60	-1.8
LPB	16.35	139	P	46	44.00	-0.8
CNCB	16.63	139	P	46	48.00	-0.4
TOV	16.94	34	eP	46	49.40	-2.3
CCH	18.28	136	P	47	11.30	2.9X
SIV	21.32	124	P	47	53.00	13.1X
YJA	22.19	144	ePc	47	50.70	1.7
JSC	38.47	357	eP	50	12.44	-0.8
			ePcP	52	23.41	
TKL	40.02	354	eP	50	25.30	-0.8
GBTN	40.07	354	eP	50	25.84	-0.7
MIAR	40.96	342	eP	50	34.00	0.2
	0.8s	17.97nm			5.0mb	
			e	50	41.98	27kmX
OLY	41.26	345	eP	50	36.04	-0.2
ELC	42.44	348	ePd	50	44.55	-1.4
			ePcP	52	36.11	
FVM	43.37	347	ePd	50	52.50	-0.9
	0.5s	44.13nm			5.5mb	
			ePcP	52	40.11	
ALQ	46.69	329	iPc	51	23.90	3.7X
	1.0s	29.75nm			5.1mb	
			pP	51	53.00	127kmX
TUC	47.16	323	ePd	51	24.45	0.7
	0.8s	7.09nm			4.6mb	
BNH	49.25	8	eP	51	40.06	0.4
GAC	49.95	3	eP	51	45.00	0.1
EEO	50.77	0	eP	51	52.50	1.3
LMN	51.62	13	eP	52	01.00	3.3X
SRU	51.97	329	eP	52	00.25	-0.4
MSU	52.39	327	iPd	52	03.96	0.1
			ePcP	53	13.13	
RSSD	53.13	338	ePc	52	08.95	-0.3
	0.8s	16.66nm			5.1mb	
DAU	53.32	330	ePd	52	10.98	0.2
			ePcP	53	15.37	
DUG	53.96	328	ePc	52	15.62	0.4
	0.7s	7.45nm			4.8mb	
BW06	54.33	333	iPd	52	17.18	-0.9
	0.7s	5.64nm			4.7mb	
			epP	52	50.61	144kmX
			ePcP	53	19.33	
TNP	54.94	324	eP	52	22.80	0.3
	0.7s	7.67nm			4.8mb	
			epP	52	56.81	146kmX
BONR	55.50	323	eP	52	27.62	0.9
MEMM	55.70	322	eP	52	28.70	1.0
ULM	56.24	347	eP	52	33.00	1.6
LCCM	57.76	334	ePd	52	42.00	-0.4
JAQ	58.02	3	eP	52	41.50	-2.4
ORV	58.45	322	eP	52	47.75	0.6
LBFM	59.79	324	eP	52	56.45	-0.2
NEW	61.95	332	ePd	53	10.40	-0.5
	0.7s	21.29nm			5.3mb	
			epP	53	45.71	148kmX
FCC	64.02	351	eP	53	27.00	2.8
FRB	68.40	5	eP	53	50.50	-1.4
	0.8s	4.00nm			4.4mb	
YKA	71.88	344	eP	54	11.80	-1.3
	0.6s	5.60nm			4.6mb	
LIC	74.89	82	P	54	31.60	0.0
TIC	74.95	82	P	54	32.20	0.2
KIC	75.19	82	P	54	33.70	0.4
	0.6s	13.00nm			4.9mb	
AVE	77.38	55	eP	54	46.50	1.3
			i	55	12.50	100km
BALM	81.13	334	ePc	55	05.17	0.2
INK	81.56	342	ePd	55	08.10	1.2
	0.5s	2.00nm			4.2mb	
KLU	82.89	334	ePd	55	13.35	-0.8
ETOR	83.22	48	iPd	55	17.00	0.8
MBC	83.72	351	ePd	55	18.40	0.5
	0.8s	14.00nm			4.9mb	
PMS	84.44	333	eP	55	22.00	0.1
	1.2s	17.80nm			4.9mb	
FBA	84.97	337	eP	55	23.57	-0.8
	0.6s	3.48nm			4.5mb	
LPF	85.39	41	iPd	55	27.00	0.2
	0.9s	19.50nm			5.1mb	
GRR	85.58	41	iPd	55	28.00	0.2
	0.6s	7.95nm			4.9mb	
SPA	85.68	180	iPd	55	28.70	0.6
	1.1s	47.62nm			5.4mb	
			i	55	54.40	97km

MFF	85.71	43	iPd	55	28.90	0.5
	0.6s	3.95nm			4.6mb	
EKA	85.72	34	P	55	31.00	2.7
	0.7s	3.30nm			4.4mb	
FLN	85.90	41	iPd	55	29.80	0.5
	0.6s	8.50nm			4.9mb	
LFF	86.02	45	eP	55	29.90	-0 1
LDF	86.10	41	iPd	55	30.70	0.4
	0.8s	11.30nm			5.0mb	
LPO	86.29	45	eP	55	31.30	0.0
	0.7s	5.85nm			4.7mb	
RJF	86.62	44	iPd	55	32.70	-0.3
	0.8s	6.30nm			4.7mb	
CAF	86.94	45	eP	55	34.40	-0.2
	0.6s	3.00nm			4.5mb	
SVW	87.21	332	eP	55	34.80	-0.7
TCF	87.26	43	iPd	55	35.70	-0.3
	0.8s	2.55nm			4.3mb	
MAF	87.50	43	iPd	55	37.00	-0.1
	0.8s	3.65nm			4.5mb	
IMA	87.67	337	eP	55	37.70	0.0
	0.7s	7.50nm			4.8mb	
DAG	87.73	12	eP	55	36.80	-0.9
	0.9s	10.92nm			4.9mb	
TTA	87.83	334	eP	55	37.80	-0.7
AVF	88.12	43	eP	55	39.70	-0.4
	0.7s	2.10nm			4.3mb	
SSF	88.26	43	iPd	55	41.00	0.2
	0.7s	3.00nm			4.5mb	
LPL	90.29	45	iPd	55	51.30	0.7
	0 8s	2.70nm			4.5mb	
LPG	90.30	45	iPd	55	51.40	0.6
	0.9s	4.90nm			4.7mb	
CDF	90.95	42	iPd	55	53.30	-0.1
	0.8s	4.55nm			4.8mb	
GRF	93.62	41	eP	56	07.00	1.4
		e(pP)		56	33.80	100km
GEC2	95.23	41	P	56	13.50	0.4
	0.5s	0.73nm			4.4mb	
		e		56	16.60	10kmX
TOO	121.10	221	iPKPc	01	42.30	-0.1
	0.5s	9.00nm				
STK	126.99	224	ePKP	01	53.30	-0.6
	0.7s	2.90nm				
ASPA	137.30	228	iPKP	02	12.80	-1.0
W82	139.05	233	iPKP	02	16.20	-0.8
		iPP		02	42.50	
WRA	139.06	233	PKP	02	09.10	-8.0X
	0 6s	1.10nm				
MTN	145.28	240	ePKP	02	27.10	-0.9
NDI	147.09	40	ePKP	02	31.00	0.4
SSE	147.14	326	PKPc	02	31.50	0.9
	1.0s	21.00nm				
LZH	148.29	355	PKPd	02	35.50	2.9X
	1.5s	54.00nm				
		pP		03	02.50	
M8L	148.46	216	ePKP	02	32.00	-1.0
		e		02	35.00	
GKN	151.95	31	PKP	02	39.60	1.3
KKN	152.45	31	PKP	02	39.20	0.1
	0.6s	32.00nm				
DMN	152.51	31	PKP	02	39.60	0.3
	0.6s	22.00nm				
GUN	152.65	30	PKP	02	39.00	-0.6
	0.7s	24.00nm				
PKI	152.69	31	PKP	02	39.40	-0 2
	0.6s	14.00nm				

S.D. = 0.9 on 82 of 89 obs.

? MAY 08, 1993 14h 47m 15.58± 1.79s
39.061 N ±10.6km 27.801 E ±23.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

IZM	0.79	213	ePg	47	30.90	0.0
		iSg		47	43.40	
EDC	1.29	2	ePn	47	40.00	0.6
8NT	1.30	4	ePn	47	39.00	-0.6
EZN	1.37	304	iPn	47	40.70	0.0

S.D. = 0.8 on 4 of 4 obs.

MAY 08, 1993 15h 05m 49.77± 0.69s
24.245 S ± 5.8km 179.830 E ± 9.1km
DEPTH = 515.8 ± 10.0 km
4.8mb (10 obs.)
SOUTH OF FIJI ISLANDS (171)

SVA	6.23	348	iPd	07	29.80	0.0
VUN	6.34	348	eP	07	30.00	-0.9
OUZ	12.20	205	P	08	34.60	3.4X
DZM	12.50	277	iPd	08	36.20	1.7
WCZ	12.58	201	P	08	38.50	3.4X
KUZ	12.95	195	eP	08	38.80	-0.1
HBZ	13.38	185	eP	08	43.70	0.4
WLZ	14 06	194	eP	08	51.70	1.5
URZ	14.16	189	eP	08	49.40	-1.9
			eS	11	18.20	
NOZ	14.41	186	eP	08	54.00	0.2
MOZ	14.85	196	eP	08	59.90	1.7
NGZ	15.31	193	eP	09	02.80	-0.2
WAHZ	15.69	190	eP	09	05.60	-1.0
MNG	16.73	192	eP	09	14.40	-2.4
			eS	12	02.60	
KIW	17.08	193	eP	09	19.80	-0.4
CAW	17.28	192	eP	09	22.00	-0.2
MRW	17.47	193	eP	09	24.00	0.0
TCW	17.55	194	eP	09	24.60	-0.1
SNZO	17.55	193	P	09	25.00	0.3
			eS	12	25.00	
QRZ	17.63	199	P	09	27.40	1.8
THZ	18.40	197	eP	09	33.50	0.4
DSZ	18.69	199	eP	09	36.50	0.6
KHZ	18.86	195	eP	09	36.90	-0.5
LTZ	19.52	197	eP	09	43.00	-0.8
WVZ	20.23	200	eP	09	49.60	-0.7
ARMA	25.76	250	iPd	10	41.90	1.2
	0.6s	12.00nm			4.6mb	
CNB	28.55	240	iPd	11	06.80	1.8
	0.5s	14.00nm			4.8mb	
CAN	28.84	240	eP	11	08.20	0.7
BWA	29.10	242	iPd	11	06.70	-3.1X
CTA	31.32	271	iPc	11	29.00	0.0
	0.5s	28.17nm			5.1mb	
TOO	32.13	237	iPd	11	36.80	1.1
	0.4s	12.00nm			4.8mb	
OLP	32.17	258	eP	11	36.20	0.1
STK	34.45	249	iPc	11	55.60	0.4
	0.4s	5.40nm			4.5mb	
ASPA	41.83	261	iPc	12	54.90	-0.6
	0.6s	19.80nm			4.8mb	
			eS	18	30.20	
W82	42.22	267	iPd	12	57.20	-1.4
	0.5s	46.10nm			5.3mb	
WRA	42.23	267	P	12	57.70	-0.9
	0.5s	9.50nm			4.6mb	
FORT	46.05	250	iPc	13	27.00	-1.3
	0.5s	17.00nm			4.8mb	
MBL	55.07	260	iPc	14	33.10	-1.6
NANU	58.56	258	iPc	14	57.90	-0.7
	0.4s	15.00nm			4.7mb	
SRU	90.55	47	eP	17	58.57	1.1
LTX	90.74	58	eP	17	59.15	0.7
ALQ	91.29	52	eP	18	05.00	4.0X
	0.7s	0.60nm			3.7mb X	
PV08	91.54	48	eP	18	03.14	0.9
FRB	121.02	29	ePKP	23	43.00	-0.9
UPP	142.29	345	iPKP	24	19.20	-4.8X
NB2	142.40	351	PKP	24	19.50	-4.8X
	0.8s	2.90nm				
HFS	142.85	349	ePKP	24	20.70	-4.3X
	0.4s	14.00nm				
HRI	147.39	294	ePKP	24	37.00	3.5X
JVI	147.85	292	ePKP	24	38.20	4.0X
MBH	148.37	288	ePKP	24	39.50	4.4X
EKA	148.87	3	PKPd	24	41.20	6.2X
	0.5s	2.80nm				
KSP	150.55	339	iPKPc	24	43.80	6.1X
	0.6s	28.00nm				
CLL	151.14	343	iPKPc	24	44.90	6.4X
	0.9s	26.00nm				
BRG	151.26	341	iPKPc	24	45.60	6.9X
	0.6s	16.00nm				
GEC2	153.12	339	PKP	24	48.80	7.2X
	0.8s	1.35nm				
		e		25	03.50	

S.D. = 1.1 on 40 of 55 obs.

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* MAY 08, 1993 15h 34m 57.27± 0.65s
9.732 S ±10.8km 106.431 E ±11.6km
DEPTH = 33.0km (normal)
4.6mb (4 obs.)
SOUTH OF JAWA, INDONESIA (282)

LEM	3.12	22	iPd	35	46.20	0.8
		iS		36	21.80	
KHKI	9.17	82	ePd	37	09.80	-0.5
		eS		38	47.10	
		e		40	56.00	
NANU	15.45	147	eP	38	24.00	-10.5X
		eS		41	00.00	
MBL	17.19	133	eP	38	54.00	-2.6
		eS		41	50.00	
NST	26.00	346	eP	40	31.00	1.9
WB2	28.79	114	iPc	40	55.10	0.6
	0.9s	9.00nm			4.5mb	
CHTO	29.31	345	eP	40	58.00	-1.2
ASPA	29.66	121	iPd	41	02.70	0.3
	1.1s	11.00nm			4.5mb	
STK	39.29	129	iPd	42	26.50	1.5
	0.7s	8.20nm			4.6mb	
PKI	42.31	332	P	42	51.00	0.9
GUN	42.38	333	P	42	49.00	-1.7
DMN	42.48	331	P	42	51.40	-0.1
KKN	42.55	332	P	42	52.40	0.4
GKN	43.04	331	P	42	54.80	-1.1
LZH	45.64	357	eP	43	16.50	-0.2
	1.5s	16.00nm			4.7mb	
8RS	47.00	118	iP	43	29.00	1.5
8JI	50.34	10	eP	43	52.00	-1.0
LSZ	76.24	257	iPc	46	45.80	0.8
YKA	119.60	21	ePKP	53	44.60	-0.3
	0.7s	0.70nm				
CNC8	153.05	192	PKP	54	56.00	9.1X
LPB	153.35	192	PKP	54	56.70	9.5X
ZOBO	153.61	192	PKP	54	54.00	6.2X

S.D. = 1.3 on 18 of 22 obs.

MAY 08, 1993 16h 34m 53.37± 0.31s
11.868 N ± 5.3km 143.193 E ± 6.2km
DEPTH = 33.0km (normal)
4.4mb (7 obs.)
SOUTH OF MARIANA ISLANDS (210)

GUA	2.36	45	eP	35	30.90	0.3
		eS		35	59.20	
GUMO	2.36	44	eP	35	30.40	-0.3
		eS		35	58.50	
PJG	2.36	44	eP	35	30.50	-0.2
CHJJ	24.37	352	P	40	09.50	-0.2
KAKJ	24.38	354	P	40	10.00	0.3
MAT	24.97	350	iPd	40	14.60	-0.9
	0.9s	10.08nm			4.4mb	
		eS		44	57.00	
NIIJ	25.54	352	P	40	20.00	-0.8
W82	32.79	195	iPc	41	25.10	-0.8
	0.8s	7.10nm			4.6mb	
ASPA	36.47	194	eP	41	57.70	0.3
	0.5s	3.60nm			4.5mb	
BRS	40.12	167	eP	42	28.00	0.1
DZM	40.72	146	iPc	42	32.80	-0.1
GUN	55.74	296	P	44	30.40	0.5
PKI	56.13	295	P	44	32.80	0.1
KKN	56.26	295	P	44	33.20	-0.3
DMN	56.40	295	P	44	35.20	0.6
GKN	56.84	296	P	44	38.40	0.8
KLU	70.55	29	iPd	46	06.86	-0.1
BALM	72.17	30	iPc	46	16.28	-0.5
INK	76.57	22	eP	46	43.00	1.2
	1.0s	3.00nm			4.3mb	
MBC	80.33	14	eP	47	03.00	0.7
	0.8s	2.00nm			4.2mb	
YKA	85.13	27	eP	47	27.20	0.1
	1.0s	3.00nm			4.4mb	
DPW	86.99	42	iPc	47	37.96	1.2
APO	97.39	337	eP	48	24.00	-0.7
	0.4s	0.60nm			4.5mb	
LIC	143.64	298	PKP	54	26.40	-1.2
ZOBO	149.33	102	PKP	54	43.00	5.4X
LPB	149.33	102	PKP	54	45.80	8.4X
CNCB	149.42	103	PKP	54	44.00	6.3X

S.D. = 0.7 on 24 of 27 obs.

MAY 08, 1993 16h 38m 38.72± 0.85s
31.624 S ± 9.1km 69.064 W ± 7.4km
DEPTH = 128.9 ± 9.9 km
SAN JUAN PROVINCE, ARGENTINA (137)
MD 4.0 (SAN).

RTCB	0.26	59	iPd	38	57.00	-0.2
		S		39	09.00	
RTBS	0.33	263	iPd	38	57.30	0.0

08d 16h

ZON	0.34	77	iPd	38 57.00	-0.4
			eS	39 09.00	
RTCV	0.51	118	iPd	38 57.60	-0.4
			S	39 09.30	
RTLL	0.59	60	iPc	38 58.50	0.0
			S	39 11.00	
CFA	0.70	89	iPc	38 59.30	0.0
			S	39 12.50	
JACH	1.67	230	iP	39 10.09	0.9
			iS	39 33.77	
FCH	1.99	211	iP	39 14.60	1.3
			iS	39 40.53	
PEL	2.04	222	iP	39 14.16	0.5
			iS	39 40.02	
ROCH	2.13	230	iP	39 14.78	-0.1
			iS	39 41.89	
PCH	2.34	211	iP	39 18.15	0.7
			iS	39 48.00	
RTPR	2.56	60	iPc	39 20.80	0.7
			(S)	39 48.90	
TACH	2.57	217	iP	39 19.92	-0.4
			iS	39 51.53	
CHCH	2.66	210	iP	39 21.92	0.3
			iS	39 54.83	
LCCH	2.81	228	iP	39 22.83	-0.6
MRA	2.96	106	iPc	39 25.90	0.6
			S	39 54.00	
LNV	3.05	220	iP	39 25.00	-1.6
RFA	3.18	171	ePc	39 27.40	-1.0
			(S)	40 03.00	
CYA	4.25	43	ePd	39 42.30	-0.4
			(S)	40 29.80	

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

% MAY 08, 1993 16h 56m 01.34± 0.87s
26.205 S ± 8.1km 28.164 E ± 9.4km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.0 (PRE).

SLR	0.48	13	iPd	56 10.20	-0.8
			S	56 18.10	
PRY	0.95	221	eP	56 19.00	-1.0
			S	56 33.50	
KSR	1.19	286	eP	56 25.00	0.9
			S	56 42.50	
BFT	1.77	73	eP	56 33.60	0.6
			S	56 56.00	
SEK	2.16	193	eP	56 39.00	0.3
			S	57 06.00	

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

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* MAY 08, 1993 16h 57m 40.89± 3.58s
51.263 N ±26.1km 16.035 E ±21.7km
DEPTH = 10.0km (geophysicist)
POLAND (548)

KSP	0.45	159	iP	57 50.00	-0.1
			iS	57 58.90	
			eLR	58 06.00	
BRG	1.37	254	iPg	58 05.50	-0.6
			iSg	58 25.40	
PRU	1.59	217	ePn	58 09.50	0.3
			Pg	58 12.50	
			i	58 15.00	
			eSn	58 27.50	
			eSg	58 33.50	
CLL	1.90	273	ePg	58 14.00	0.3
			eSg	58 39.00	
KHC	2.65	217	ePn	58 24.50	0.0
	0.5s		2.50nm		
			ePg	58 30.00	
			e	58 35.00	
			eSn	58 56.40	
			eSg	59 13.00	
MOX	2.86	259	ePg	58 33.50	6.1X
			iSg	59 12.60	
GRF	3.45	245	ePn	58 35.80	0.0
			ePg	58 41.10	
			eSg	59 31.60	

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

MAY 08, 1993 18h 38m 12.82± 0.32s
11.097 N ± 4.8km 62.306 W ± 4.5km
DEPTH = 120.7 ± 5.3 km
3.8mb (3 obs.)
WINDWARD ISLANDS (95)

MD 3.9 (TRN).

TCE	0.67	126	eP	38 32.11	-0.2
			eS	38 44.53	
TRN	0.99	117	eP	38 35.07	0.0
			eS	38 49.17	
TPP	1.14	133	eP	38 37.32	0.7
			eS	38 53.05	
GRW	1.23	31	eP	38 38.17	0.5
			eS	38 53.26	
TBH	1.36	116	eP	38 39.13	0.1
			eS	38 54.66	
PIG	1.44	87	eP	38 39.83	-0.1
			eS	38 56.99	
BOT	1.56	87	eP	38 40.74	-0.6
SVB	2.39	25	eP	38 51.38	-0.5
			eS	39 20.82	
SVV	2.45	26	eP	38 52.40	-0.2
			eS	39 21.96	
SLB	2.98	24	eP	38 59.36	-0.3
			eS	39 20.82	
GUAN	3.48	251	iPd	39 07.40	1.1
			eS	39 47.30	
BIM	3.61	19	eP	39 07.93	-0.1
MVM	3.70	22	iPd	39 09.29	0.0
FDF	3.79	17	iPd	39 10.22	-0.2
CRM	3.88	20	eP	39 12.50	0.9
OLLA	4.55	257	eP	39 21.00	0.1
			eS	40 13.30	
CEOS	6.28	251	eP	39 43.40	-1.1
			eS	40 52.80	
TOV	7.48	261	eP	40 01.90	1.1
SDV	8.49	256	eP	40 13.20	-1.4
SIV	26.94	177	P	43 59.80	14.9X
NAV	30.95	331	(P)	44 15.59	-4.9X
YKA	63.38	336	eP	48 27.10	-4.1X
	0.4s		0.30nm		3.6mb
NB2	72.39	29	P	49 27.70	0.4
	0.8s		1.50nm		3.8mb
HFS	73.48	30	eP	49 33.50	-0.1
	0.4s		1.50nm		4.1mb
Z	22s		0.04um		3.7Msz
			LR	20 42.00	
WRA	161.72	239	PKP	58 01.10	0.1
	0.9s		0.60nm		

S.D. = 0.7 on 22 of 25 obs.

? MAY 08, 1993 19h 17m 24.21± 6.45s
34.554 S ±55.2km 71.126 W ±12.4km
DEPTH = 60.0km (geophysicist)
NEAR COAST OF CENTRAL CHILE (135)
MD 3.5 (SAN).

LNV	0.64	338	iP	17 38.33	0.5
			iS	17 49.89	
CHCH	0.73	32	iP	17 38.99	0.0
			iS	17 50.74	
TACH	0.91	10	iP	17 41.15	-0.1
			iS	17 54.73	
PCH	1.06	29	iP	17 43.99	0.7
			iS	17 58.25	
LCCH	1.14	341	iP	17 44.39	0.2
			iS	18 00.37	
FCH	1.41	30	iP	17 48.58	0.3
			iS	18 06.97	
PEL	1.45	15	iP	17 48.68	0.0
			iS	18 07.70	
ROCH	1.58	3	iP	17 50.85	0.3
			iS	18 10.46	
JACH	1.92	14	iP	17 55.82	0.7

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

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* MAY 08, 1993 19h 29m 52.75± 2.87s
65.175 N ± 8.0km 161.565 W ±30.3km
DEPTH = 10.0km (geophysicist)
3.2mb (1 obs.)
NORTHERN ALASKA (676)

TTA	3.32	130	eP	30 46.27	0.4
			eS	31 40.28	
IMA	3.39	71	ePn	30 46.65	-0.2
			eS	31 43.45	
SVW	4.89	144	eP	31 07.62	-0.5
CRP	5.78	128	eP	31 20.67	-0.1
RSO	6.21	135	eP	31 26.75	-0.1
PWA	6.32	119	eP	31 28.60	0.4
BRW	6.41	14	(P)	31 39.68	10.3X
PMS	6.70	120	eP	31 34.20	0.6
MBC	17.25	33	eP	33 55.50	0.7
YKA	20.50	76	eP	34 31.80	-1.2
	0.6s		0.80nm		3.2mb

S.D. = 0.7 on 9 of 10 obs.

MAY 08, 1993 19h 46m 45.09± 0.46s
44.310 N ± 3.9km 7.459 E ± 3.9km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.1 (LDG), 1.9 (GEN).

ENR	0.09	198	P	46 46.68	-1.1
			S	46 48.05	
STV	0.12	236	P	46 47.18	-0.9
			S	46 49.06	
ROB	0.30	93	P	46 51.90	0.6
			S	46 56.11	
PZZ	0.32	307	P	46 52.35	0.5
			S	46 56.79	
SBF	0.45	182	Pg	46 53.90	-0.3
			Sg	47 00.50	
IMI	0.51	142	P	46 55.10	-0.3
			S	47 02.33	
FIN	0.55	100	P	46 55.88	-0.3
			S	47 04.48	
BHB	0.55	345	P	46 55.56	-0.6
			S	47 03.11	
PCP	0.81	73	P	47 01.64	0.8
			S	47 12.35	
FRF	0.95	218	Pg	47 04.60	1.4
			Sg	47 17.80	
LRG	1.17	223	Pg	47 07.70	0.8
			Sg	47 23.70	
LMR	1.19	215	Pg	47 07.30	0.0
			Sg	47 24.00	
LPL	1.31	337	Pg	47 09.10	-0.4

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

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* MAY 08, 1993 20h 30m 25.31± 0.83s
7.321 S ± 8.7km 128.276 E ±12.8km
DEPTH = 141.6 ± 10.1 km
4.7mb (2 obs.)
BANDA SEA (280)

TLE	4.75	70	iPc	31 38.00	1.9
			iS	32 25.00	
MTN	6 17	153	eP	31 54.00	-1.3
			eS	32 58.00	
WB2	13.86	155	eP	33 32.30	-4.7X
			eS	35 58.30	
MBL	16.00	210	eP	34 04.00	0.3
			eS	36 55.00	
ASPA	17.13	162	iPd	34 15.90	-1.7
			eS	37 12.40	
WARB	18.82	185	eP	34 36.60	-0.2
	0.3s		8.00nm		4.5mb
NANU	19.50	218	eP	34 44.80	1.0
OLP	24.44	143	eP	35 33.20	0.8
			e	35 54.00	
MRWA	24.66	206	eP	35 37.00	2.5
GUN	53.89	312	P	39 36.40	-0.3
PKI	54.05	312	P	39 37.60	-0.3
KKN	54.26	312	P	39 39.00	-0.3
DMN	54.29	312	P	39 39.60	0.0
GKN	54.85	312	P	39 43.60	0.1
	0.4s		8.00nm		4.9mb
YKA	108.79	26	ePKP	48 37.20	-1.6
	0.5s		0.30nm		
GEC2	111.56	320	PKP	48 43.70	-0.9
	0.7s		0.50nm		
CNCB	151.13	146	PKP	50 05.30	6.7X
LPB	151.29	146	(PKP)	50 02.00	3.4X
ZOBO	151.49	145	PKP	50 05.80	6.7X

S.D. = 1.3 on 15 of 19 obs.

MAY 08, 1993 20h 50m 30.09± 0.29s
44.569 N ± 2.1km 7.023 E ± 3.1km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.6 (LDG), 2.3 (GEN).

PZZ	0.09	139	Pc	50 33.12	0.4
			S	50 34.90	
DOI	0.17	112	P	50 34.50	0.4
			eSg	50 37.00	
BHB	0.32	32	Pd	50 37.14	0.4

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                    S     50 41.70
RRL      0.39 334   Pc    50 37.86   -0.3
                    S     50 43.11
STV      0.39 146   Pc    50 38.06   -0.1
                    S     50 43.39
ENR      0.45 140   Pc    50 39.15    0.0
                    S     50 45.26
RSP      0.61  16   Pd    50 42.25   -0.2
                    S     50 50.19
ROB      0.67 114   Pd    50 43.52    0.1
                    S     50 52.02
S8F      0.77 157   Pg    50 45.00   -0.1
                    Sg    50 55.50
LSD      0.89   6   P     50 47.19   -0.2
                    S     50 58.63
IMI      0.91 136   P     50 47.41   -0.1
                    S     50 58.96
FIN      0.92 113   Pd    50 47.81    0.1
                    S     50 59.52
LPG      0.95 348   Pg    50 48.50    0.1
                    Sg    50 59.60
LPL      0.97 348   Pg    50 48.60   -0.1
FRF      1.04 195   Pn    50 49.80    0.0
                    Pg    50 50.80
                    Sg    51 02.60
PCP      1.09  91   Pc    50 50.77    0.2
                    S     51 04.54
LRG      1.21 203   Pn    50 52.40   -0.2
                    Pg    50 53.70
                    Sg    51 08.90
CDR      1.27 226   e(Pg) 50 54.50    0.8
                    e(Sg) 51 11.00
LMR      1.29 197   Pn    50 54.00    0.0
                    Pg    50 54.80
                    Sg    51 10.40
PGF      2.48 144   Pn    51 10.00   -1.2
                    Sn    51 39.40
     S.D. = 0.4   on  20 of  20 obs.
-----------------------------------------
   MAY  08, 1993  21h 45m 40.61± 0.38s
   31.586 S ± 5.6km   68.729 W ± 6.9km
   DEPTH = 113.7 ±  5.7 km
 SAN JUAN PROVINCE, ARGENTINA      (137)
     MD 4.3 (SAN).

ZON      0.06  47   iPd   45 56.60   -0.1
RTCV     0.32 149   iPd   45 57.50    0.3
RTLL     0.34  41   iPc   45 56.80   -0.5
CFA      0.42  93   iPc   45 58.00    0.3
RTBS     0.62 263   iPd   45 58.80   -0.1
RTRS     1.54 336   ePd   46 08.50    0.0
JACH     1.92 235   iP    46 13.56    0.2
                    iS    46 40.03
FCH      2.18 217   iP    46 18.26    1.3
PEL      2.27 226   iP    46 18.35    0.6
                    iS    46 47.44
RTPR     2.29  57   iPc   46 18.30    0.3
ROCH     2.38 234   iP    46 18.57   -0.8
                    iS    46 49 03
SAN      2.48 221   iP    46 20 97    0.5
PCH      2.53 216   iP    46 22 48    1.3
                    iS    46 54.55
TACH     2 78 222   iP    46 24.16   -0.3
CHCH     2.85 214   iP    46 25.81    0.4
LCCH     3.05 231   iP    46 26.95   -1.1
RFA      3.18 176   iPc   46 30 00    0.0
                    S     46 56.70
LNV      3.27 223   iP    46 29.14   -1.9
TCA      3.54  87   iPc   46 35.00    0.1
                    S     46 56.50
CYA      4.03  40   ePd   46 40.00   -1.5
                    S     47 19.00
FSA      5.98  24   e(P)  47 07.00   -1.0
CNCB    14.72   3   P     49 07.00    2.1
LPB     15.00   2   eP    49 10.00    1.8
ZOBO    15.26   2   P     49 11.00   -0.7
SIV     17.02  26   P     49 46.00   12.9X
TUC     74.97 324   (P)   57 10.00   -1.1
WRA    124.19 206   PKP   04 27.90    0.1
       0.6s       0.50nm
     S.D. = 1.0   on  26 of  27 obs.
-----------------------------------------
?  MAY  08, 1993  21h 50m 05.28± 2.17s
   16.254 N ±32.9km   94.670 W ± 9.7km
   DEPTH =  10.0km  (geophysicist)
   3.6mb (  1 obs.)
 OAXACA, MEXICO                    ( 60)
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SCX      2.01  76   iP    50 39.48   -0.1
                    iS    51 09.61
OXX      2.13 293   iPc   50 41.65    0.0
                    iS    51 13.26
IISM     3.75 317   (P)   51 03.23   -1.2
IIT      4.43 309   iP    51 18.17    3.9X
PPM      4.70 307   iP    51 21.77    3.4X
ACX      5.01 278   (P)   51 29.22    6.9X
III      5.04 295   iP    51 23.00    0.0
LTX     15.43 329   eP    53 45.59    0.9
PV08    25.40 334   (P)   55 34.23   -0.6
YKA     48.27 348   eP    58 44.00   -4.2X
        0.8s      0.50nm          3.6mb
     S.D. = 0.9   on   6 of  10 obs.
-----------------------------------------
&  MAY  08, 1993  21h 52m 37.58s
   63.249 N          150.956 W
   DEPTH =  14.0km
 CENTRAL ALASKA                    (  1)
      <AEIC>. ML 2.5 (AEIC), 2.9
      (PMR).

TRF      0.36  56   iP    52 44.75   -0.6
                    eS    52 50.95
HUR      0.66 114   iP    52 50.41    0.1
                    eS    52 59.92
RND      0.96  80   eP    52 55.47   -0.1
                    eS    53 09.13
MCK      1.03  61   iP    52 56.70    0.0
                    eS    53 11.43
SKT      1.30 192   iP    53 00.57   -0.7
                    eS    53 17.61
NEA      1.57  31   eP    53 05.23    0.2
                    S     53 25.98
PWA      1.68 162   P     53 06.90    0.3
GHO      1.76 147   eP    53 08.14    0.3
WRH      1.77  45   eP    53 07.62   -0.3
MLY      1.79   3   eP    53 06.05   -2.3
                    eS    53 31.80
SUA      1.79 177   iP    53 09.03    0.6
                    eS    53 33.31
PLRM     1.87 152   eP    53 09.33    0.0
PMR      1.87 152   eP    53 08.74   -0.6
SML      1.89 139   eP    53 09.40   -0.3
CCB      1.98  43   eP    53 09.45   -1.5
CRP      2.07 196   eP    53 11.24   -1.2
                    eS    53 38.63
CPAM     2.08 196   eP    53 11.92   -0.6
CP2      2.08 197   eP    53 11.81   -0.8
                    eS    53 39.96
MDM      2.09  34   eP    53 13.28    0.6
BGL      2.10 199   iP    53 12.59   -0.3
PMS      2.12 161   P     53 14.10    1.1
CKT      2.14 196   iP    53 13.30   -0.1
SPU      2.14 194   iP    53 12.90   -0.4
CKL      2.16 198   iP    53 13.61   -0.1
FBA      2.16  39   (P)   53 13.59   -0.1
                    eS    53 43.44
SCM      2.20 129   eP    53 14.80    0.5
TTA      2.32 264   eP    53 15.29   -0.7
                    eS    53 44.38
PAX      2.51  94   eP    53 19.17    0.5
PTE      2.56 158   eP    53 20.11    0.9
SDG      2.58 104   iP    53 20.26    0.6
SLKM     2.77 172   eP    53 23.02    0.6
TZL      2.83 113   eP    53 24.22    1.2
MPA      2.87 164   eP    53 24.30    0.6
RDW      2.91 198   eP    53 25.51    1.1
RS2      2.92 198   eP    53 24.94    0.3
RSO      2.92 198   eP    53 25.32    0.7
RS1      2.93 198   eP    53 25.32    0.7
KLU      2.93 125   eP    53 25.05    0.4
VLZ      3.04 132   iP    53 26.18    0.2
IMA      3.06 339   eP    53 23.93   -2.6
SVW      3.07 228   eP    53 24.70   -1.8
BALM     4.61 115   eP    53 47.94   -0.6
        42 obs. associated
-----------------------------------------
   MAY  08, 1993  22h 35m 02.57± 0.91s
   37.114 N ±10.3km   28.918 E ± 5.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 3.2 (ISK).

YER      0.51 272   iPg   35 12.00   -0.9
                    iSg   35 20.00
CIN      0.82 306   ePg   35 20.00    1.6
                    iSg   35 31.00
ELL      0.87 114   iPg   35 19.60    0.1
                    iSg   35 33.10
KHL      1.30  21   ePn   35 26.00   -0.7
BCK      1.38  75   ePn   35 28.10    0.2
IZM      1.83 315   iPn   35 34.10   -0.3
ALT      2.15  26   ePn   35 39.00   -0.1
     S.D. = 1.0   on   7 of   7 obs.
-----------------------------------------
?  MAY  08, 1993  22h 36m 03.04± 0.97s
   37.158 N ±11.3km   28.965 E ± 6.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 3.1 (ISK).

YER      0.55 268   iPg   36 14.00   -0.1
                    iSg   36 24.00
ELL      0.86 118   ePg   36 20.00    0.3
                    eSg   36 33.10
KHL      1.24  21   ePn   36 26.50    0.3
BCK      1.33  76   ePn   36 27.10   -0.5
     S.D. = 0.7   on   4 of   4 obs.
-----------------------------------------
?  MAY  08, 1993  22h 37m 00.34± 0.94s
   37.360 N ±10.2km   28.881 E ± 7.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 3.0 (ISK).

YER      0.53 245   iPg   37 11.00    0.0
                    eSg   37 22.00
ELL      1.02 126   ePg   37 20.00    0.2
KHL      1.09  28   ePn   37 21.00    0.2
BCK      1.36  85   ePn   37 25.10   -0.3
     S.D. = 0.4   on   4 of   4 obs.
-----------------------------------------
?  MAY  08, 1993  22h 40m 53.10± 8.12s
   15.201 N ±114.km   39.920 E ±20.8km
   DEPTH =  10.0km  (geophysicist)
   4.1mb (  3 obs.)
 ETHIOPIA                          (558)

ABHA     4.07  41   eP    41 56.67   -0.3
DHJN     4.21  54   eP    41 59.50    0.5
SPC     37.53 339   e(P)  48 13.00    3.8X
ZST     37.90 335   eP    48 13.80    1.7
GEC2    39.85 333   P     48 29.30    0.8
        0.7s      1.79nm          3.9mb
                    e     48 34.60
KHC     40.11 333   eP    48 31.00    0.4
GRF     41.57 332   eP    48 42.00   -0.5
HFS     48.77 343   eP    49 38.70   -1 2
        0.5s      0.90nm          4.1mb
NB2     50.23 342   P     49 49.80   -1.3
        1.0s      3.70nm          4.3mb
     S.D. = 1.2   on   8 of   9 obs.
-----------------------------------------
*  MAY  08, 1993  22h 58m 27.49± 0.81s
    7.411 N ±18.1km   75.988 W ±10.3km
   DEPTH = 114.4 ± 20.1 km
   3.8mb (  1 obs.)
 NORTHERN COLOMBIA                 ( 99)

FUQ      2.95 131   eP    59 14.00    0.0
BOG      3.37 145   eP    59 23.50    3.9X
                    eS    00 08.00
UPA      3.84 294   eP    59 26.00    0.3
                    eS    00 19.71
ECO      4.15 298   iPd   59 29.64   -0.3
                    eS    00 32.04
SDV      5.50  74   eP    59 48.60    0.0
PSO      6.32 192   eP    00 28.00   27.9X
TOV      6.57  68   eP    00 05.20    2.1X
ZOBO    24.78 162   P     03 40.00   -0.9
     Z  20s       0.15um          3.5Msz
                    LR    13 14.00
LPB     25.04 162   eP    03 53.00    9.9X
CNCB    25.34 162   P     03 47.00    0.9
SIV     27.55 148   P     04 22.00   16.4X
YKA     61.75 341   eP    08 39.70    3.9X
        0.9s      0.90nm          3.8mb
     S.D. = 1.0   on   6 of  12 obs.
-----------------------------------------
   MAY  08, 1993  23h 16m 00.15± 0.74s
   37.151 N ± 8.4km   28.963 E ± 4.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
```

08d 23h

ML 3.2 (ISK).

YER	0.54	268	iPg	16	11.00	-0.2
			eSg	16	21.00	
CIN	0.83	303	ePg	16	16.00	-0.2
			iSg	16	29.00	
ELL	0.86	118	iPg	16	16.60	-0.2
			iSg	16	30.10	
KHL	1.25	21	ePn	16	23.00	-0.5
BCK	1.33	76	iPn	16	25.10	0.3
IZM	1.83	313	ePn	16	32.60	0.6
ALT	2.11	25	ePn	16	36.00	0.0

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

% MAY 09, 1993 00h 26m 16.58± 0.38s
39.263 N ± 3.4km 28.621 E ± 4.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ML 3.4 (ISK).

KCT	1.01	348	iPg	26	35.60	0.0
			eSg	26	50.60	
KHL	1.17	143	iPn	26	38.60	0.0
ALT	1.18	100	iPn	26	39.00	0.4
BNT	1.22	334	iPn	26	39.00	-0.2
EDC	1.23	332	iPn	26	40.00	0.6
			eSg	26	57.00	
IZM	1.37	231	iPn	26	41.10	-0.6
YLV	1.42	24	iPn	26	42.40	-0.2
GPA	1.66	51	ePn	26	45.00	-0.8
HRT	1.75	27	ePn	26	47.10	-0.1
EYL	1.76	42	ePn	26	48.00	0.6
ISK	1.83	10	ePn	26	48.50	0.2
MFT	1.84	326	ePn	26	48.00	-0.5
EZN	1.86	288	iPn	26	49.50	0.7
ITU	1.87	9	ePn	26	54.00	5.2X
			iSg	27	18.00	
CTT	1.89	356	iPn	26	48.80	-0.3
YER	2.14	187	ePn	26	53.00	0.1
DMK	2.64	346	ePn	27	00.10	0.2

S.D. = 0.5 on 16 of 17 obs.

MAY 09, 1993 01h 28m 07.54± 0.21s
39.030 N ± 2.6km 15.922 E ± 1.8km
DEPTH = 123.1 ± 3.0 km
4.2mb (10 obs.)
SOUTHERN ITALY (390)

MD 4.4 (TTG).

CZI	0.25	41	P	28	24.30	-0.3
ACI	0.39	34	P	28	25.40	-0.1
TDS	0.71	27	Pd	28	27.90	0.4
ROI	0.74	43	P	28	28.90	1.1
CSI	0.80	21	P	28	29.30	1.0
MMN	0.86	3	P	28	27.50	-1.3
ATN	0.94	203	Pd	28	28.30	-1.3
SOI	0.96	174	Pd	28	29.40	-0.3
			eSg	28	42.00	
MGR	1.14	346	Pc	28	31.60	0.1
			eSg	28	44.00	
MNO	1.46	222	Pd	28	35.00	-0.3
			eSg	28	52.00	
SGO	1.60	343	Pc	28	37.00	0.4
			eSn	28	56.00	
GIB	1.81	236	Pc	28	38.30	-1.1
			eSg	28	59.00	
LCI	2.04	50	Pc	28	43.00	1.0
			eSn	29	07.70	
MEU	2.08	202	P	28	43.00	0.3
			eSg	29	08.00	
BRT	2.09	28	Pc	28	41.40	-1.4
			eSn	29	11.00	
BAI	2.21	19	Pc	28	43.00	-1.2
			eSg	29	09.00	
MCT	2.28	233	P	28	46.60	1.3
FAI	2.49	226	Pc	28	49.00	1.1
ERC	2.80	250	Pc	28	51.20	-0.8
CVT	2.81	242	Pc	28	52.30	0.3
DUI	2.86	337	P	28	53.00	0.2
KEK	3.08	76	ePb	28	56.50	0.8
VLO	3.11	61	iPn	28	57.60	1.6
			iSn	29	31.00	
SDI	3.12	330	P	28	56.40	0.2
SRN	3.27	74	iPnc	28	58.30	0.2
			iSn	29	27.80	
TPE	3.40	67	iPnc	29	04.20	4.3X
			iSn	29	42.20	
IGT	3.46	80	ePg	29	01.84	1.1
			eSg	29	16.84	
RDP	3.66	319	P	29	04.00	0.5
RMP	3.71	320	P	29	04.20	0.1
VLS	3.75	102	ePn	29	05.00	0.3
TIR	3.80	51	iPnd	29	05.50	0.1
			iSn	29	48.20	
PTS	3.82	236	Pc	29	04.10	-1.4
AQU	3.83	331	P	29	05.00	-0.8
ULC	3.88	40	iPnc	29	05.05	-1.3
			iSn	29	41.05	
LACI	3.89	47	ePn	29	07.00	0.5
			iSn	29	49.90	
BDV	3.93	33	iPnc	29	05.52	-1.5
			iSn	29	41.90	
HCY	3.93	29	iPnc	29	05.31	-1.8
			iSn	29	41.83	
SDA	4.07	41	iPnd	29	09.40	0.5
			iSn	29	54.80	
MNS	4.16	325	Pc	29	10.90	0.7
HVAR	4.16	5	iPnc	29	08.70	-1.5
TTG	4.24	36	iPnc	29	10.19	-1.0
			iSn	29	48.86	
OHR	4.28	59	iPnc	29	12.80	0.9
			i	29	21.20	
			i	29	51 20	
			i	30	00.20	
			i	30	04.70	
			Lg	30	06.70	
BRY	4.35	26	iPnc	29	11.57	-1.2
			iSn	29	51.24	
PHP	4.35	51	iPnc	29	12.90	0.1
			iSn	30	00.90	
NKY	4.44	31	iPnc	29	12.90	-1.1
			iSn	29	53.92	
FNA	4.55	66	iPn	29	16.70	1.2
			eSn	29	41.72	
KZN	4.69	72	ePn	29	18.00	0.6
PVY	4.70	40	iPnc	29	17 02	-0.6
			iSn	30	00.80	
ASS	4.73	330	P	29	18.00	0.1
IVA	4.88	37	iPnc	29	19.28	-0.7
			iSn	30	04.66	
ARV	5.00	334	Pd	29	22.00	0.5
PLE	5.03	30	iPnd	29	21.12	-1.0
			iSn	30	07.95	
SKO	5.13	53	iPnc	29	23.80	0.5
	0.6s	206.00nm				5.5mb X
			ePb	29	30.50	
			ePg	29	35.00	
			iSg	30	03.90	
			iSb	30	14.90	
			i	30	18.60	
			Lg	30	24.00	
LIT	5.19	76	ePn	29	24.76	0.6
			iSn	29	55.28	
GRG	5.33	67	iPn	29	26.45	0.3
			eSn	30	00.78	
CRE	5.48	328	P	29	29.50	1.3
VAY	5.58	64	iPnc	29	29.60	0.1
			iSg	30	29 60	
			Lg	30	32.70	
THE	5.65	71	ePn	29	30.00	-0.4
			eSn	30	06.76	
KNT	5.76	66	iPn	29	32.06	0.1
			eSn	30	11.12	
SFI	5.76	329	P	29	33.30	1.4
PGD	5.78	328	P	29	33.60	1.2
SOH	5.99	70	iPn	29	35.25	0.1
VLI	6.01	110	ePn	29	36.00	0.6
PAIG	6.07	79	iPn	29	35.74	-0 5
			eSn	30	15.04	
ATH	6.20	97	ePn	29	38.00	0.0
SRS	6.24	68	ePn	29	38.12	-0.5
PGF	6.32	306	eP	29	39.60	-0.1
	0.6s	22.00nm				4.6mb X
OUR	6.35	76	ePn	29	39.64	-0.4
BDI	6.42	323	P	29	42.00	0 9
VBY	6.49	356	eP	29	42.40	0.5
ZAG	6.78	0	e(Pn)	29	48.30	2.4
CEY	6.80	351	e(P)	29	45.50	-0.6
TRI	6.86	347	P	29	45.80	-1.1
PTJ	6.87	0	iPnc	29	46.80	-0.3
			eSn	30	53 30	
LJU	7.08	352	eP	29	49.90	-0.1
VOY	7.16	349	iPc	29	50.50	-0.5
			e	30	19.60	
			e	31	13.00	
			e	32	11.00	
BOB	7.49	322	P	29	57.90	2.3
VAM	7.53	116	ePn	29	55.50	-0.5
RBL	7.61	348	P	29	56.50	-0.6
RDO	7.67	71	ePn	29	56.70	-1.2
CTI	7.69	337	Pd	29	56.90	-1.4
IMI	7.75	312	P	30	00.04	0.9
FIN	7.75	314	P	30	00.73	1.6
PCP	7.79	317	P	30	00.23	0 6
FVI	7.90	344	P	30	01.90	0.9
SAOF	7.99	311	P	30	02.12	-0.3
ROB	8.00	314	P	30	02.93	0.5
AURF	8.07	310	P	30	02.12	-1.4
EZN	8.09	81	eP	30	03.50	-0.2
GZR	8.14	36	ePc	30	03.50	-0.9
TOUF	8.19	310	P	30	04.51	-0.7
ENR	8.21	312	P	30	08.69	3.3X
KBA	8.26	348	iPd	30	05.70	-0.4
	0.6s	10.50nm				4.7mb X
			ic	30	05.90	
			i	30	14.30	
STV	8.28	312	P	30	09.15	2.9X
LMR	8.30	304	eP	30	05.20	-1.2
	0.8s	7.00nm				4.4mb X
LRG	8.45	305	eP	30	07.80	-0.7
	1.0s	13.40nm				4.6mb X
DOI	8.48	313	P	30	12.20	3.2X
PZZ	8.56	313	P	30	12.17	2.0
BHB	8.68	315	P	30	10.80	-0.8
OSS	8.75	333	ePc	30	13.20	0.6
TMA	8.77	326	ePc	30	12.40	-0.6
WTTA	8.80	341	iPd	30	14.20	0.8
	0.7s	7.30nm				4.5mb X
RRL	8.99	314	P	30	17.07	1.0
LSD	9.13	317	P	30	16.84	-1.1
MMK	9.15	323	ePc	30	20.50	2.4
ZST	9.20	5	eP	30	18.60	0.1
			e	31	34.80	
			e	31	55.40	
LLS	9.33	329	ePc	30	20.90	0.4
LPG	9.38	317	eP	30	23.00	1.8
	0.8s	5.65nm				4.4mb X
LPL	9.40	317	eP	30	22.70	1.3
	0.9s	6.70nm				4.4mb X
DIX	9.43	321	ePc	30	23.50	1.6
EMS	9.67	320	Pc	30	25.70	0.8
MLR	9.84	46	ePc	30	30.00	2.8X
GEC2	9.94	351	Pn	30	27.80	-0.7
			Pg	30	52.20	
ISR	9.97	49	eP	30	30.00	1.0
ESEL	10.11	278	eP	30	32.00	1.3
KHC	10.24	351	eP	30	32.00	-0.4
			e	30	41.00	
			e	31	42.50	
SLE	10.26	331	ePc	30	31.70	-1.0
VRI	10.50	46	eP	30	37.50	1.6
FEL	10.54	330	eP	30	34.91	-1.6
LOMF	10.63	324	P	30	36.67	-1.0
MOF	10.88	327	P	30	39.81	-1.1
PRU	11.00	355	eP	30	42.50	0.1
BSF	11.01	326	eP	30	39.30	-3.4X
	0.8s	19.90nm				4.9mb X
ECH	11.16	328	P	30	43.81	-0.7
GRF	11.17	344	eP	30	43.00	-1.7
WLS	11.23	329	P	30	45.00	-0.5
CDF	11.27	329	P	30	44.74	-1.2
HAU	11.34	325	eP	30	43.80	-3.1X
	1.0s	21.60nm				4.8mb X
VITF	11.66	325	P	30	50.59	-0.5
SMF	11.68	315	eP	30	56.90	5.6X
CAF	11.87	304	eP	31	02.20	8.3X
	0.9s	10.00nm				4.5mb X
BRG	11.93	354	e(P)	31	03.80	9.3X
MOX	12.01	347	eP	31	03.40	7.8X
	1.2s	19.00nm				4.6mb X
			i	31	05.40	
AVF	12.03	314	eP	31	00.00	4.0X
	1.1s	9.30nm				4.3mb X
LOR	12.05	317	eP	31	01.50	5.3X
	0.7s	3.65nm				4.1mb X
SSF	12.11	316	eP	31	01.70	4.7X
	0.7s	3.75nm				4.1mb X
MAF	12.17	310	eP	31	02.70	4.9X
	0.8s	3.75nm				4.1mb X
BGF	12.19	312	eP	31	03.60	5.5X
LPO	12.35	302	eP	31	08.30	8.2X

	0.6s	16.25nm		4.8mb X		
RJF	12.38	305 eP	31	08.10	7.5X	
	0.8s	8.35nm		4.4mb X		
CLL	12.45	351 iP	31	10.30	8.9X	
	1.5s	20.00nm		4.5mb X		
EGRA	12.74	290 eP	30	59.10	-6.1X	
LFF	12.74	302 eP	31	12.60	7.4X	
	0.7s	12.55nm		4.6mb X		
LSF	12.81	309 eP	31	11.00	4.9X	
	0.9s	6.90nm		4.2mb X		
ENN	13.69	332 ePKP	31	20.00	2.5	
	1.0s	16.00nm		4.3mb X		
ETOR	13.92	283 eP	31	24.00	3.4X	
MFF	14.00	308 eP	31	25.70	4.2X	
	1.0s	16.60nm		4.3mb X		
EVIA	14.37	274 eP	31	30.00	3.6X	
ECRI	14.41	290 eP	31	25.00	-1.8	
WTS	14.44	337 ePKP	31	32.50	5.5X	
	1.0s	14.10nm		4.2mb X		
ENIJ	14.44	267 eP	31	26.20	-1.1	
CSS	14.49	101 eP	31	25.50	-2.3	
		iS	34	02.50		
LDF	14.99	315 eP	31	37.10	3.0X	
	0.6s	11.65nm		4.3mb		
LPF	15.22	312 eP	31	37.10	0.2	
	0.8s	18.00nm		4.4mb		
GRR	15.29	313 eP	31	37.30	-0.5	
	0.8s	11.15nm		4.2mb		
ECOG	15.43	270 eP	31	39.50	-0.3	
GUD	15.51	282 eP	31	43.50	2.7X	
EGUA	15.53	268 eP	31	41.00	0.0	
EJIF	17.11	268 eP	32	02.10	1.6	
ERUA	17.79	288 eP	32	08.50	-0.3	
STS	18.86	290 eP	32	19.20	-1.4	
EKA	20.72	328 Pd	32	41.10	1.5	
	0.6s	3.90nm		4.0mb		
HFS	21.17	357 eP	32	42.80	-1.3	
	0.5s	16.90nm		4.7mb		
OBN	21.24	34 eP	32	46.00	1.2	
	0.9s	12.00nm		4.3mb		
		e	36	31.00		
NUR	22.19	11 iP	32	53.80	-0.2	
	0.5s	3.30nm		4.0mb		
NB2	22.23	354 P	32	52.80	-1.7	
	0.7s	16.80nm		4.5mb		
KAF	23.97	12 iP	33	10.80	-0.5	
	0.5s	2.20nm		3.9mb		
MAIO	34.36	81 eP	34	46.00	1.6	
KIC	37.50	215 P	35	10.10	-0.8	
LIC	37.75	215 P	35	12.20	-0.8	
GKN	57.12	79 P	37	44.00	0.4	
DMN	57.67	79 P	37	48.60	1.0	
KKN	57.72	79 P	37	49.20	1.4	
PKI	57.92	79 P	37	49.80	0.3	
GUN	58.11	78 P	37	51.40	0.6	
MBC	61.55	349 eP	38	12.50	-0.7	
INK	70.56	348 eP	39	10.50	0.1	
YKA	71.31	338 eP	39	13.50	-1.5	
	0.6s	1.40nm		4.0mb		
LCCM	83.41	326 eP	40	23.00	0.7	

S.D. = 1.0 on 151 of 179 obs.

% MAY 09, 1993 01h 49m 13.61± 0.79s
27.935 S ± 5.7km 26.747 E ±10.2km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.4 (PRE).

SEK	0.87	117 eP	49	31.00	0.1	
		S	49	41.00		
8FS	1.03	2 eP	49	33.60	-0.1	
PRY	1.19	33 iPc	49	36.10	-0.3	
		S	49	53.00		
BLF	1.27	203 iPc	49	37.60	-0.1	
		S	49	55.00		
KSR	2.07	4 eP	49	50.00	0.4	
		S	50	15.00		
SLR	2.58	32 eP	49	56.90	0.0	
		S	50	29.00		

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

& MAY 09, 1993 01h 58m 24.13s
63.281 N 151.057 W
DEPTH = 15.9km
CENTRAL ALASKA (1)
<AEIC>. ML 2.9 (AEIC), 3.2 (PMR).

TRF	0.39	63 P	58	32.00	-0.3	
		S	58	37.50		
HUR	0.71	115 P	58	37.70	0.0	
		S	58	47.50		
RND	1.00	82 P	58	42.70	0.0	
		S	58	56.20		
MCK	1.05	64 P	58	43.70	0.1	
		S	58	58.30		
SKT	1.32	190 P	58	47.90	0.0	
NEA	1.57	33 P	58	52.20	0.8	
		S	59	13.20		
PWA	1.73	161 P	58	54.00	0.4	
		S	59	17.20		
MLY	1.76	4 P	58	53.50	-0.7	
		S	59	18.90		
WRH	1.78	46 P	58	53.90	-0.5	
GHO	1.81	146 eP	58	54.75	-0.2	
SUA	1.83	175 eP	58	55.48	0.2	
		eS	59	20.85		
PLRM	1.92	151 eP	58	56.50	0.1	
PMR	1.92	151 eP	58	55.97	-0.4	
		eS	59	17.63		
SML	1.94	138 eP	58	56.51	-0.4	
CCB	1.98	45 eP	58	56.43	-1.0	
CGLM	2.03	193 eP	59	00.13	2.0	
CRP	2.09	195 eP	58	58.43	-0.6	
		eS	59	24.30		
MDM	2.09	35 eP	58	58.10	-0.9	
CPAM	2.10	194 eP	58	59.06	-0.1	
		eS	59	27.89		
CP2	2.10	196 eP	58	58.98	-0.3	
		eS	59	26.88		
BGL	2.12	198 eP	58	59.91	0.4	
CKN	2.13	195 eP	59	00.29	0.7	
CKT	2.16	195 eP	59	00.66	0.7	
SPU	2.16	193 eP	58	59.82	-0.2	
PMS	2.16	160 P	59	00.80	0.8	
FBA	2.17	40 eP	58	59.29	-0.8	
		eS	59	30.70		
CKL	2.18	197 eP	59	00.66	0.3	
SCM	2.26	128 eP	59	01.26	-0.2	
TTA	2.28	263 eP	58	59.51	-2.2	
NKA	2.55	182 eP	59	08.72	3.3	
PAX	2.56	94 eP	59	06.48	0.8	
PTE	2.61	158 eP	59	07.33	1.0	
		eS	59	40.68		
SDG	2.63	104 eP	59	07.55	0.8	
DFR	2.81	197 eP	59	11.88	2.6	
SLKM	2.81	172 eP	59	09.87	0.6	
NCT	2.87	199 eP	59	10.91	0.8	
TZL	2.88	113 eP	59	11.54	1.4	
MPA	2.91	163 eP	59	12.72	2.1	
		eS	59	46.27		
RDW	2.93	197 eP	59	12.19	1.2	
RS2	2.94	197 eP	59	12.50	1.3	
RSO	2.94	197 eP	59	12.61	1.4	
RS1	2.94	197 eP	59	11.97	0.7	
KLU	2.99	125 eP	59	12.65	0.9	
IMA	3.02	339 eP	59	10.27	-1.9	
SVW	3.05	226 ePn	59	10.63	-2.0	
		ePg	59	17.09		
VLZ	3.09	132 eP	59	13.57	0.5	
SEW	3.28	166 eP	59	17.88	2.1	
HIN	3.61	141 eP	59	21.19	0.6	
CVA	3.72	135 eP	59	22.43	0.4	
CNPM	3.77	181 eP	59	23.70	0.9	
PDB	3.81	205 eP	59	23.43	0.0	
GLB	3.85	115 eP	59	24.98	1.0	
AUW	4.09	198 P	59	25.20	-2.2	
FYU	4.13	34 eP	59	28.59	0.8	
RAGM	4.19	131 eP	59	29.68	0.8	
CROM	4.51	121 eP	59	34.52	1.1	
CDD	4.54	197 eP	59	34.01	0.2	
TGL	4.63	119 eP	59	35.29	0.2	
BALM	4.66	115 eP	59	35.24	-0.4	
CTGM	5.12	113 eP	59	42.31	0.2	
YAH	5.29	119 eP	59	44.72	0.1	

61 obs. associated

& MAY 09, 1993 02h 01m 15.88s
63.209 N 150.905 W
DEPTH = 25.8km
CENTRAL ALASKA (1)
<AEIC>. ML 2.5 (AEIC).

SKT	1.27	193 eP	01	37.54	-0.5	
		eS	01	54.19		
NEA	1.59	30 eP	01	42.09	-0.6	
		eS	02	02.70		
PWA	1.64	163 eP	01	43.77	0.5	
GHO	1.71	147 eP	01	42.72	-1.7	
SUA	1.75	177 eP	01	45.47	0.3	
WRH	1.78	43 eP	01	45.37	0.0	
PLRM	1.82	152 eP	01	46.27	0.3	
MLY	1.83	2 eP	01	46.34	0.2	
		eS	02	08.45		
SML	1.84	139 eP	01	46.32	0.0	
CCB	1.99	42 eP	01	47.25	-1.2	
CRP	2.04	197 eP	01	49.21	0.0	
CPAM	2.05	197 eP	01	49.12	-0.2	
CP2	2.05	198 eP	01	49.24	-0.3	
PMS	2.07	162 eP	01	50.66	1.0	
BGL	2.07	200 eP	01	49.11	-0.6	
CKN	2.08	197 eP	01	50.18	0.4	
SPU	2.11	195 eP	01	49.76	-0.4	
CKT	2.11	197 eP	01	50.18	0.0	
SCM	2.16	128 eP	01	51.12	0.2	
FBA	2.18	37 eP	01	52.11	1.0	
PAX	2.48	93 eP	01	56.40	0.8	
PTE	2.51	159 eP	01	57.91	2.0	
SDG	2.55	103 eP	01	57.36	0.9	
SLKM	2.73	173 eP	01	59.43	0.4	
KLU	2.89	124 eP	02	02.59	1.3	

25 obs. associated

• MAY 09, 1993 03h 00m 04.18± 0.85s
18.005 N ± 9.3km 98.530 W ± 8.7km
DEPTH = 76.4 ± 10.7 km
3.5mb (1 obs.)
CENTRAL MEXICO (523)

III	0.97	293 iPc	00	22.58	-0.5	
		iS	00	34.50		
IIT	1.03	12 iPc	00	23.09	-0.9	
PPM	1.06	355 iPd	00	23.95	-0.6	
		(S)	00	37.30		
IIA	1.14	354 iPc	00	24.67	-0.4	
UNM	1.46	335 iP	00	29.00	-0.5	
IISM	1.47	48 iPc	00	29.38	0.1	
ACX	1.70	229 iP	00	31.34	-1.1	
		(S)	00	47.72		
CRX	1.77	322 iP	00	35.70	2.0	
OXX	1.95	118 iPd	00	37.24	1.1	
		(S)	00	53.85		
MRX	3.04	304 iP	00	52.26	1.4	
LCCM	29.89	341 eP	06	07.70	0.8	
YKA	45.84	350 eP	08	18.50	-1.5	
	0.5s	0.30nm		3.5mb		

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

% MAY 09, 1993 03h 04m 25.88± 1.79s
36.754 N ±17.1km 2.941 W ± 5.8km
DEPTH = 5.0km (geophysicist)
STRAIT OF GIBRALTAR (385)
mbLg 3.1 (MDD).

EGUA	0.51	279 iPgc	04	36.20	0.2	
		eSg	04	41.50		
ENIJ	0.63	70 iPgc	04	38.30	-0.1	
		eSg	04	46.80		
ECOG	0.72	316 iPgc	04	40.00	-0.4	
		eSg	04	47.00		
EHUE	1.10	15 ePg	04	47.30	0.3	
		eSg	05	01.00		
ELUO	1.33	308 ePn	04	51.00	0.0	
		eSn	05	09.00		
EVIA	1.91	10 ePn	05	02.20	2.7X	
		eS	05	25.90		

S.D. = 0.4 on 5 of 6 obs.

• MAY 09, 1993 03h 59m 18.68± 1.40s
17.452 S ±10.7km 64.394 W ±10.6km
DEPTH = 38.5 ± 16.7 km
4.5mb (1 obs.)
CENTRAL BOLIVIA (120)

CCH	1.66	272 Pd	59	45.00	-1.1	
SIV	3.50	66 iPd	00	28.80	16.7X	
LPB	3.66	284 Pc	00	15.00	0.3	
ZOBO	3.76	288 iPc	00	16.20	-0.1	
YJA	4.81	192 iPd	00	32.10	1.1	
ARE	6.86	277 eP	01	01.00	1.2	
SLA	7.31	188 ePd	01	04.50	-1.4	
		i	01	34.80		

09d 04h

		i	03 02.70		
FSA	8.72	190 eP	01 24.00	-1.3	
CYA	11.02	186 eP	01 58.70	1.8	
PPD	13.13	112 eP	02 24.40	-0.9	
TCA	13.83	181 ePd	02 34.00	-0.4	
CACB	17.17	107 (P)	03 19.00	1.5	
VAO	17.26	112 eP	03 22.70	4.1X	
		e	03 27.10		
YKA	88.87	339 eP	12 09.50	-0.3	
	0.6s	1.60nm		4.5mb	
WRA	138.53	207 PKP	18 44.50	1.5	
	0.7s	0.50nm			
GKN	149.65	64 PKP	19 00.00	-1.8	
	S.D. = 1.4	on 14 of 16 obs.			

? MAY 09, 1993 05h 19m 19.36± 3.21s
31.389 S ±43.1km 68.665 W ±18.6km
DEPTH = 96.5 ± 33.2 km
SAN JUAN PROVINCE, ARGENTINA (137)

RTCB	0.15	230 ePd	19 33.50	-0.1	
		S	19 45.50		
RTLL	0.18	71 iPc	19 33.60	0.0	
		S	19 44.70		
CFA	0.42	121 eP	19 34.50	0.0	
		S	19 46.40		
RTBS	0.73	248 ePd	19 36.90	0.0	
		S	19 51.90		
RTPR	2.15	60 ePd	19 54.20	0.0	
		S	20 21.10		
	S.D. = 0.1	on 5 of 5 obs.			

% MAY 09, 1993 05h 24m 30.41± 1.19s
40.390 N ±14.6km 28.872 E ± 5.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.6 (ISK).

YLV	0.42	65 iPg	24 39.40	0.4	
		eSg	24 45.40		
HRT	0.74	54 iPg	24 44.80	-0.2	
		iSg	24 55.80		
EDC	0.77	267 ePg	24 45.50	0.0	
CTT	0.83	336 iPg	24 46.40	0.0	
EYL	1.00	79 ePn	24 49.20	-0.2	
	S.D. = 0.3	on 5 of 5 obs.			

* MAY 09, 1993 06h 22m 19.03± 0.97s
35.272 N ±10.5km 27.250 E ± 8.6km
DEPTH = 109.7 ± 33.7 km
DODECANESE ISLANDS (369)
MD 3 8 (ATH).

NPS	1.34	270 ePb	22 44.30	0.0	
		eSb	23 04.40		
YER	2.04	24 iPn	22 52.00	-1.0	
KSL	2.08	65 ePb	22 56.40	2.9X	
VAM	2.50	274 ePb	23 05.20	6.2X	
ELL	2.61	55 ePn	23 01.60	1.0	
IZM	3.12	0 ePn	23 06.30	-1.1	
BCK	3.47	50 ePn	23 13.00	0.8	
KHL	3.55	30 ePn	23 13.70	0.4	
VLI	3.78	294 ePn	23 17.00	0.6	
CSS	4.99	92 eP	23 28.00	-5.0X	
		eS	24 31.50		
JVI	7.53	114 eP	24 07.20	-0.6	
DSI	7.73	116 eP	24 10.40	-0.1	
	S.D. = 1.0	on 9 of 12 obs.			

& MAY 09, 1993 06h 27m 48.61s
35.011 N 116.964 W
DEPTH = 3.5km
CENTRAL CALIFORNIA (39)
<PAS-P>. ML 2.8 (PAS), 2.6 (GS).

GSC	0.32	24 iPd	27 54.79	-0.2	
SSK	1.00	217 eP	28 07.10	-1.2	
		eS	28 20.49		
PEC	1.13	188 iPd	28 09.37	-1.0	
		eS	28 24.08		
ISA	1.40	298 eP	28 13.47	-1.5	
		eS	28 32.59		
PLM	1.66	177 eP	28 17.94	-0.8	
		eS	28 39.32		
ABL	1.86	266 eP	28 21.75	-0.1	
TPNV	2.02	16 eP	28 23.76	-0.3	
GLA	2.64	137 eP	28 32.82	0.0	
TNP	3.07	356 eP	28 37.81	-1.3	
MEMM	3.09	330 (P)	28 39.00	-0.1	
BONR	3.13	340 ePn	28 40.17	0.2	
ARUT	3.97	45 eP	28 51.02	-0.8	
	12 obs. associated				

MAY 09, 1993 07h 51m 59.60± 1.08s
7.918 N ± 4.8km 125.996 E ± 7.3km
DEPTH = 46.3 ± 9.9 km
4.9mb (32 obs.) 4.7Msz (4 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)
Mw 5.2 (HRV).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 18S, 26C
Centroid Location:
Origin Time 07:51:59.7 0.7
Lat 8.16N 0.07 Lon 126.23E 0.08
Dep 33.7 6.1 Half-duration 1.0
Moment Tensor; Scale 10**16 Nm
Mrr= 0.60 0.37 Mtt= 5.19 0.56
Mff=-5.78 0.74 Mrt=-1.29 1.12
Mrf= 0.93 1.10 Mtf=-5.49 0.39
Principal Axes:

	Val=	Plg=	Azm=
T	7.79	12	203
N	0.28	78	11
P	-8.07	2	112

Best Double Couple:Mo=7.9*10**16
NP1:Strike=247 Dip=80 Slip= 173
NP2: 338 83 10

DAV	0.92	207 iP-	52 17.60	1.2	
CGP	1.39	293 iPd	52 22.00	-1.0	
CTB	1.92	248 iPc	52 34.00	3.6X	
		iS	52 59.00		
PLP	3.38	343 ePd	52 48.50	-2.7X	
MNI	6.53	190 ePd	53 37.00	1.3	
		eS	54 47.00		
PPR	7.41	285 ePd	53 53.00	5.0X	
PGP	7.44	319 eP	53 54.60	5.6X	
QCP	8.24	325 eP	54 28.00	28.6X	
KKM	9.89	260 ePc	54 23.90	1.7	
BCP	9.95	329 eP	54 33.80	10.6X	
BAG	9.96	328 eP	54 22.00	-1.3	
SWI	10.18	149 eP	54 24.50	-1.6	
		eS	56 15.50		
MKS	14.58	207 iPc	55 35.00	10.2X	
HKC	18.28	323 eP	56 12.00	0.4	
KHKI	19.20	213 eP	56 18.20	-4.5X	
		e	59 12.30		
GUMO	19.37	71 eP	56 34.40	9.8X	
SJI	21.05	223 iPc	56 47.80	5.7X	
		e	59 06.00		
MTN	21.25	166 eP	56 44.00	-0.1	
LEM	23.46	232 iPc	57 11.50	5.4X	
SSE	23.49	350 P-	57 04.00	-2.1	
	6.0s	0.40nm		2.1mb X	
Z	20s	1.80um		4.5Msz	
N	14s	0.70um			
E	14s	0.80um			
		sP	57 20.00		
		S	01 16.00		
		sS	01 33.00		
		i	01 48.00		
LOE	25.46	294 eP	57 27.50	2.4	
NNT	26.25	282 eP	57 32.20	-0.2	
NST	26.44	289 eP	57 35.00	0.8	
PMG	27.21	129 eP	57 46.00	4.7X	
KMI	28.02	310 Pd	57 48.50	-0.3	
	2.0s	90.00nm		5.1mb	
Z	28s	3.70um		4.8MszX	
N	12s	0.70um			
E	12s	0.50um			
		sP	57 58.00		
		eS	02 30.00		
CHTO	28.41	295 eP	57 52.00	-0.2	
WRA	28.88	164 P	57 55.50	-0.8	
	1.4s	10.20nm		4.3mb	
WB2	28.88	164 eP	57 54.80	-1.5	
		eS	03 15.90		
MAT	30.59	20 eP	58 12.00	0.6	
	0.8s	6.72nm		4.4mb	
		eS	03 05.00		
ASPA	32.33	166 P	58 27.10	0.3	
BJI	33.17	346 eP	58 33.00	-0.9	
	1.6s	47.00nm		5.1mb	
Z	16s	47.00um		6.3MszX	
		eS	03 42.00		
WARB	33.90	179 eP	58 38.20	-2.2	
	0.4s	11.00nm		5.1mb	
CTA	34.23	145 iPc	58 45.60	2.3	
	1.0s	10.00nm		4.7mb	
Z	24s	5.04um		5.2MszX	
		eS	04 09.00		
LZH	34.57	327 eP	58 45.00	-1.3	
	1.2s	18.00nm		4.9mb	
Z	24s	1.06um		4.5MszX	
N	18s	2.14um			
		pP	58 49.00	14kmX	
MEEK	35.09	192 eP	58 49.00	-1.6	
MRWA	38.16	194 eP	59 15.50	-0.9	
FORT	38.53	177 eP	59 19.60	0.2	
COOL	38.86	187 eP	59 21.00	-1.3	
BAL	39.33	193 eP	59 25.00	-1.1	
KLB	40.07	191 eP	59 31.00	-1.2	
MUN	40.76	193 eP	59 39.00	1.1	
NWAO	41.46	191 eP	59 43.00	-0.7	
STK	42.29	160 eP	59 50.60	0.2	
	1.3s	8.50nm		4.3mb	
		e	01 30.20		
GUN	42.77	303 P	59 55.40	0.5	
PKI	43.05	302 P	59 57.20	0.0	
	0.8s	34.00nm		5.1mb	
KKN	43.23	302 P	59 58.60	0.1	
DMN	43.31	302 P	59 59.40	0.2	
	0.9s	53.00nm		5.3mb	
BRS	43.64	145 iP	00 02.00	0.4	
	1.0s	7.00nm		4.4mb	
		e	00 04.00		
		i	00 17.00		
		e(PP)	01 50.00		
GKN	43.83	302 P	00 03.20	-0.1	
	0.8s	26.00nm		5.0mb	
ADE	44.31	165 e(P)	00 08.10	1.2	
ARMA	45.37	148 iPd	00 10.20	-5.3X	
	1.0s	16.00nm		4.9mb	
HYB	47.13	286 eP	00 31.00	1.5	
BWA	47.16	155 eP	00 34.50	5.0X	
		i	00 47.80		
		e	01 18.70		
GBA	47.98	281 P	00 37.00	0.8	
CAN	48.17	155 eP	00 43.10	5.7X	
		i	00 54.80		
		e	01 19.20		
CNB	48.32	154 eP	00 43.00	4.4X	
	0.8s	17.00nm		5.1mb	
TOO	48.78	159 eP	00 45.60	3.5X	
	0.8s	32.00nm		5.4mb	
DZM	49.60	128 iPc	00 49.30	0.6	
NDI	50.29	301 eP	00 53.00	-0.8	
YAK	54.06	2 eP	01 19.00	-2.4	
	1.8s	63.00nm		5.3mb	
Z	18s	0.30um		4.4Msz	
		e	03 36.00		
QUE	59.36	300 eP	01 51.80	-8.2X	
MAIO	66.44	306 eP	02 46.00	-0.7	
CSY	74.87	186 eP	03 37.40	0.6	
	0.5s	12.00nm		5.1mb	
		i	03 42.10		
SVW	77.50	29 (P)	03 52.35	0.5	
	1.0s	11.71nm		4.9mb	
TTA	77.53	27 eP	03 54.40	2.4	
BRW	78.46	19 eP	03 56.59	-0.3	
IMA	78.88	24 eP	03 59.38	-0.1	
	1.2s	7.89nm		4.5mb	
CP2	79.14	29 eP	04 03.74	2.7X	
CRP	79.18	29 eP	04 03.59	2.4	
PWA	80.29	29 eP	04 09.30	2.4X	
	0.8s	20.60nm		5.1mb	
PMR	80.65	29 (P)	04 09.47	0.7	
	1.0s	13.16nm		4.8mb	
FBA	81.28	26 eP	04 13.11	1.0	
	0.9s	3.15nm		4.3mb	
KLU	82.19	29 eP	04 18.51	1.5	
OBN	83.22	325 eP	04 26.00	3.7X	
	2.0s	48.00nm		5.2mb	
Z	20s	0.40um		4.8Msz	
		e	05 05.00		
		e	05 26.00		
		LQ	31 16.00		
		LR	35 48.00		
BALM	83.94	29 eP	04 27.64	1.6	
INK	86.56	21 eP	04 42.50	3.7X	
	1.0s	2.00nm		4.3mb	

```
KAF     87.57 332 eP     04 43.20  -0.6
        0.9s      9.40nm          5 0mb
MBC     88.05  13 eP     04 45.50  -0.4
        0.9s      6.00nm          4.8mb
NUR     88.71 331 eP     04 48.70  -0.5
        0.8s     11.50nm          5.2mb
DAG     93.05 352 eP     05 04.30  -4.8X
        0.7s      4.79nm          5.0mb
HFS     93.99 332 eP     05 12.50  -1.3
        0.9s      9.70nm          5.2mb
      Z  17s     0.21um           4.7MszX
                  LR     40 20.00
NB2     94.74 334 P      05 16.90  -0.3
        1.1s      3.90nm          4.7mb
YKA     96.00  24 eP     05 21.40  -1.6
        1.0s      2.90nm          4.7mb
KSP     96.08 323 eP     05 23.00  -0.5
BRG     97.46 324 eP     05 34.70   5.0X
CLL     97.84 324 eP     05 33.00   1.6
KHC     98.33 322 eP     05 33.50  -0.3
                  e      05 39.00
GEC2    98.37 322 P      05 37.70   3.7X
        1.1s      2.77nm          4 7mb
                  e      05 43.40
                  e      05 49.00
                  e      05 54.00
GRF     99.53 323 eP     05 43.00   3.8X
      Z  19s     0.30um           4.8Msz
KIC    128.86 285 PKP    11 11.10   6.2X
LPB    163.79 123 PKP    12 06.00   6.1X
ZOBO   163.90 122 PKP    12 04.70   4.5X
PPD    165.73 190 (PKP)  12 10.00   9.0X
SIV    169.41 140 ePKP   12 18.00  14.3X
                  e      12 26.00
      S.D. = 1.2  on  63 of  94 obs.
-------------------------------------
?  MAY  09, 1993  07h 55m 44.01± 1.08s
   39.129 N ±15.8km   27.628 E ±44.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.8 (ISK).

IZM     0.78 202 iPg     55 59.30   0.0
                 iSg     56 11.30
EDC     1.23   8 iPn     56 07.00   0.1
BNT     1.25  10 ePn     56 07.00  -0.2
KCT     1.25  26 iPn     56 07.30   0.0
      S.D. = 0.2  on   4 of   4 obs.
-------------------------------------
?  MAY  09, 1993  08h 04m 31.33± 1.16s
   39.105 N ± 8.5km   27.652 E ±13.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.8 (ISK).

IZM     0.77 203 iPg     04 46.30  -0.1
                 iSg     04 58.80
EDC     1.25   7 ePn     04 54.00  -0.6
EZN     1.25 305 ePn     04 54.80   0.2
KCT     1.27  25 ePn     04 55.30   0.5
      S.D. = 0.8  on   4 of   4 obs.
-------------------------------------
%  MAY  09, 1993  08h 22m 31.13± 1.35s
   41.114 N ±14.8km   29.196 E ±10.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.8 (ISK).

ISK     0.11 245 iPg     22 34.80   0.8
                 iSg     22 38.30
HRT     0.46 129 iPg     22 41.00   0.5
YLV     0.56 166 iPg     22 41.80  -0.8
                 iSg     22 49.00
CTT     0.58 274 iPg     22 42.80  -0.1
DMK     1.29 304 ePn     22 54.60  -0.5
      S.D. = 0.9  on   5 of   5 obs.
-------------------------------------
%  MAY  09, 1993  08h 33m 15.19± 0.98s
   40.456 N ± 8.1km   21.896 E ± 7.0km
   DEPTH =  10.0km  (geophysicist)
 GREECE                            (364)

FNA     0.51 310 iPg     33 25.52  -0.1
                 eSg     33 32.56
LIT     0.58 128 ePg     33 27.04   0.1
                 eSg     33 35.38
GRG     0.63  37 iPg     33 28.48   0.6
                 eSg     33 37.26
KNT     1.04  47 ePg     33 34 72  -0.1
SOH     1.17  71 iPb     33 36.64  -0.4
SRS     1.45  62 iPb     33 41.12  -0.3
PAIG    1.46 111 ePb     33 41.74   0.1
      S.D. = 0.4  on   7 of   7 obs.
-------------------------------------
*  MAY  09, 1993  08h 45m 32.44± 2.27s
   61.273 N ± 8.7km    4.694 E ±21.9km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN NORWAY                   (535)
      MD 1.5 (BER).

FOO     0.37  27 eP     45 40.20   0.2
                 eS     45 50.32
HYA     0.73  98 eP     45 47.88   1.1
                 eS     46 04.25
ASK     0.83 163 eP     45 48.75   0.3
                 eS     46 01.71
EGD     1.04 165 eP     45 51.95  -0.1
                 eS     46 04.95
NRA0    3.38  96 ePn    46 24.69  -1.6
                 eS     47 07.86
      S.D. = 1.4  on   5 of   5 obs.
-------------------------------------
   MAY  09, 1993  09h 17m 57.19± 0.75s
   13.514 N ± 6.6km   90.719 W ± 4.4km
   DEPTH =  61.6 ±  6.1 km
   4.6mb ( 15 obs.)
 NEAR COAST OF GUATEMALA           ( 71)
      Felt (II) at Son Solvodor, El
      Solvodor.

CUSS    0.85  62 iPc     18 13.40  -0.1
YPE     1.18  59 iPc     18 18.80   0.8
TME     1.42  69 iPd     18 22.20   1.1
LFU     1.58  81 iPd     18 24.60   1.2
TPX     2.04 313 iPc     18 25.70  -4.0X
                 iS     18 41.00
SCX     3.70 330 iP      18 54.30   1.2
                 (S)    19 40.00
OXX     6.79 302 iP      19 36.50  -0.2
                 (S)    20 48.18
IISM    8.39 311 iP      19 54.00  -4.6X
                 (S)    21 32.37
IIT     9.11 308 iP      20 08.14  -0.7
PPM     9.39 307 iP      20 13.14   0.3
ACX     9.43 292 (P)     20 10.50  -2.4
                 (S)    22 12.85
IIA     9.46 307 iP      20 13.60   0.3
III     9.70 301 iP      20 15.15  -1.7
UNM     9.97 307 (P)     20 21.00   0.5
MRX    11.77 303 iPc     20 44.47  -0.1
LTX    19.80 325 ePd     22 24.08  -1.3
                 e      22 28.90
SDV    20.23 101 eP      22 28.20  -1.9
TOV    20.82  98 eP      22 35.90  -0.2
GOGA   20.88  17 eP      22 36.30  -0.1
       0.5s     24.36nm          4.8mb
                 e      22 43.02
MiAR   21.10 353 eP      22 37.07  -1.6
       0.8s     46.55nm          4.9mb
SGS    21.69  24 eP      22 45.55   1.0
PRM    21.84  19 eP      22 46.70   0.7
OLY    21.90 358 eP      22 45.40  -1.3
MYNC   22.28  14 P       22 51.77   1.3
       0.5s     20.34nm          4.8mb
JSC    22.38  21 eP      22 52.08   0.7
FNO    22.47 346 iPc     22 51.10  -1.2
GRT    22.68   3 eP      22 54.25  -0.1
GBTN   22.82  14 eP      22 56.25   0.5
TKL    22.92  15 eP      22 57.27   0.6
ELC    23.71   3 eP      23 03.69  -0.6
                 e      23 28.32
ACO    24.29 343 iPd     23 07.80  -2.2
CEH    24.61  23 eP      23 12.60  -0.5
       0.5s     17.88nm          4.8mb
NAV    25.31  19 P       23 20.82   1.2
GOL    29.10 336 ePd     23 54.47   0.0
       0.7s      4.74nm          4.2mb
PV08   29.59 331 eP      23 59.69   0.7
PV10   29.62 330 eP      23 58.06  -1.1
PV09   29.76 330 eP      23 59.77  -0.7
SRU    30.92 329 ePc     24 09.65  -0.9
MSU    31.33 327 P       24 14.81   0.6
ARUT   31.52 324 P       24 16.68   0.9
EMUT   31.61 330 P       24 17.04   0.4
GSC    31.99 317 P       24 20.77   0.9
DAU    32.28 330 P       24 23.22   0.7
RSSD   32.56 342 eP      24 22.04  -2.8
       0.5s      3.25nm          4.4mb
BW06   33.39 334 P       24 30.93  -1.2
       0.6s      1.28nm          4.0mb
TNP    33.95 321 P       24 37.48   0.5
       0.8s      9.89nm          4.8mb
HVU    34.07 330 P       24 37.81   0.0
BONR   34.54 320 P       24 43.51   1.4
PHAM   34.71 315 P       24 45.34   2.0
KVN    35.09 321 P       24 48.06   1.3
LCCM   36.85 335 eP      25 02.40   1.0
                 e      27 24.40
ZOBO   37.07 142 P       25 03.90  -0.1
     Z  22s     0.92um           4.5Msz
                  LR     36 12.00
LPB    37.30 142 eP      24 56.00  -9.7X
                 e      27 25.00
CCH    39.14 141 P       25 20.20  -0.8
SSOR   41.27 325 P       25 38.20   0.1
RNO    41.42 323 P       25 41.18   1.9
SIV    41.46 134 iPc     25 53.60  13.8X
SAW    41.62 331 P       25 41.61   0.8
EBG    41.63 329 P       25 42.12   1.2
ASR    41.64 328 P       25 42.60   1.5
WTV    41.88 330 P       25 43.77   0.8
JAO    41.91  13 ePd     25 40.60  -2.4
LON    42.15 328 P       25 45.74   0.5
BMW    42.72 327 P       25 50.54   0.7
JCW    43.18 330 P       25 52.98  -0.6
YJA    43.23 145 ePc     25 55.00   0.3
MCW    43.95 329 P       26 00.05   0.2
STW    44.02 328 P       26 01.27   0.9
YKA    51.79 346 eP      26 58.40  -2.1
       0.8s      4.20nm          4.5mb
PPD    52.36 132 eP      27 04.00  -1.4
FRB    52.51  12 eP      27 03.50  -2.5
       1.0s      6.00nm          4.6mb
INK    61.26 343 eP      28 07.00  -0.9
       0.7s      3.00nm          4.5mb
MBC    64.55 353 eP      28 27.50  -2.0
       0.6s      4.00nm          4.6mb
EKA    77.63  36 P       29 48.00  -0.3
       0.7s      5.80nm          4.7mb
NB2    83.98  29 P       30 22.30   0.5
       0.8s      1.30nm          4.0mb
TIC    84.31  85 P       30 23.20  -1.2
LIC    84.40  85 P       30 24.10  -0.7
     Z  22s     0.19um           4.4Msz
KIC    84.64  85 P       30 25.20  -0.8
       0.4s     25.00nm          5.6mb X
HFS    85.42  29 eP      30 27.60  -1.4
       0.4s      0.90nm          4.3mb
GRF    87.37  39 eP      30 39.70   0.9
     Z  18s     0.30um           4.7Msz
GEC2   89.18  40 PKP     30 47.80   0.2
                 e      30 50.20
                 e      30 58.50
LZH   128.78 345 PKPd    37 00.80   0.9
       1.5s     30.00nm
STK   128.90 240 ePKP    37 00.10   0.1
       0.6s      1.90nm
WB2   136.47 255 ePKP    37 03.90 -10.8X
       0.6s      2.20nm
                  i      37 15.10
WRA   136.48 255 PKP     37 15.80   1.1
       0.7s      3.50nm
ASPA  136.67 250 iPKPd   37 15.10   0.0
       0.6s      5.60nm
GKN   138.49   6 PKP     37 00.00 -18.5X
CHTO  146.49 343 iPKPd   37 33.60   1.2
LOE   146.91 338 ePKP    37 34.00   0.9
HYB   147.49  19 ePKP    37 34.50   0.4
BDT   147.97 342 ePKP    37 30.50  -4.2X
       0.8s     13.00nm
NST   149.08 339 ePKP    37 42.00   5.5X
MUN   149.25 229 ePKP    37 40.50   4.1X
MBL   149.90 251 ePKP    37 42.00   4.3X
       0.6s     21.00nm
KHT   150.41 342 ePKP    37 40.50   1.9
NNT   152.07 338 ePKP    37 42.60   1.5
      S.D. = 1.2  on  86 of  96 obs.
-------------------------------------
   MAY  09, 1993  09h 45m 41.67± 0.55s
   45.760 N ± 6 3km   15.079 E ± 4.4km
   DEPTH =  10.0km  (geophysicist)
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09d 09h

NORTHWESTERN BALKAN REGION (383)
ML 2.5 (VIE).

VBY	0.28	154	ePgd	45	48.50	0.9
			eSg	45	53.00	
CEY	0.46	268	iPgc	45	50.70	-0.3
			eSg	45	57.00	
LJU	0.47	307	iPgc	45	50.50	-0.8
			eSg	45	56.40	
PTJ	0.63	77	iPgc	45	53.50	-0.9
			iSg	46	02.90	
ZAG	0.64	85	ePg	45	53.70	-0.7
			iSg	46	02.60	
RIY	0.64	230	iPgc	45	54.50	0.0
			iSg	46	03.70	
VOY	0.87	289	ePgc	45	57.70	-0.8
			eSg	46	10.30	
TRI	0.92	267	P	45	59.00	-0.3
RBL	1.25	303	P	46	04.30	-0.7
			eSg	46	21.80	
KBA	1.78	318	iPgc	46	14.00	1.1
			iSg	46	36.70	
FVI	1.80	298	P	46	13.00	0.1
			eSn	46	36.40	
VVI	1.87	278	P	46	15.50	1.5
CTI	2.41	278	P	46	21.00	-0.9
WTTA	2.81	304	iP	46	27.60	-0.1
GEC2	3.23	344	Pn	46	35.40	2.0
			Sn	47	07.30	
			Sg	47	22.20	

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

% MAY 09, 1993 10h 06m 38.78± 1.15s
43.034 N ± 7.1km 13.084 E ±11.7km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ASS	0.31	277	P	06	44.60	-0.7
			eSg	06	48.70	
ARV	0.48	347	P	06	48.00	-0.5
			eSg	06	55.70	
MNS	0.71	205	P	06	52.90	0.0
			eSg	07	03.90	
AQU	0.72	161	P	06	53.00	0.0
			eSn	07	05.00	
CRE	1.02	306	P	06	59.20	1.1
			eSg	07	12.00	

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

• MAY 09, 1993 10h 26m 09.52± 0.57s
18.252 S ±17.5km 178.140 W ±13.5km
DEPTH = 470.0km (geophysicist)
4.4mb (14 obs.)
FIJI ISLANDS REGION (181)

DZM	14.96	253	iPd	29	21.70	0.8
BRS	28.25	246	iPd	31	16.00	-9.1X
	1.0s		5.00nm			3.9mb
ARMA	29.99	240	iPd	31	40.80	0.5
	0.5s		8.00nm			4.4mb
CTA	33.64	261	iPd	32	12.00	0.8
	1.0s		17.50nm			4.5mb
QLP	35.65	250	eP	32	28.30	0.3
TOO	37.15	231	iPc	32	40.90	0.6
	0.8s		19.00nm			4.6mb
STK	38.69	242	iPd	32	53.80	0.8
	0.4s		4.50nm			4.3mb
WB2	44.81	260	iPc	33	41.40	-0.6
	0.6s		15.20nm			4.6mb
WRA	44.82	260	P	33	41.70	-0.4
	0.7s		3.40nm			3.9mb
ASPA	44.95	255	iPd	33	42.90	-0.2
	0.6s		75.90nm			5.3mb
			iS	39	45.50	
FORT	50.09	245	iPc	34	21.40	-0.7
	0.5s		8.00nm			4.3mb
WARB	51.41	251	iPd	34	29.50	-2.3
	0.6s		19.00nm			4.6mb
MBL	58.14	256	eP	35	19.00	-0.4
NANU	61.87	254	eP	35	44.50	0.3
SPA	71.86	180	iPd	36	44.90	-0.2
	1.0s		45.00nm			5.0mb
BALM	84.07	17	eP	37	50.97	0.5
FBA	86.09	12	(P)	38	00.20	0.2
	1.0s		5.00nm			4.2mb
			epP	39	45.79	469kmX
BW06	87.43	43	eP	38	07.30	0.1
	0.7s		0.68nm			3.5mb
YKA	94.54	25	eP	38	38.50	-0.7
	0.6s		0.30nm			3.6mb
KSP	145.51	344	ePKP	44	55.00	0.6
CLL	145.85	348	ePKP	44	57.00	2.1X
GEC2	148.01	345	PKP	45	03.60	5.0X
	0.9s		1.68nm			
			e	45	07.60	
			e	45	13.10	
			e	45	18.70	

S.D. = 0.8 on 19 of 22 obs.

% MAY 09, 1993 10h 42m 55.63± 0.79s
41.066 N ± 7.3km 23.222 E ± 5.2km
DEPTH = 10.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)

KNT	0.26	292	iPg	43	01.36	0.2
			eSg	43	04.94	
SOH	0.26	158	ePg	43	00.96	-0.3
			iSg	43	05.14	
SRS	0.28	79	ePg	43	01.48	-0.1
			eSg	43	05.46	
THE	0.47	204	ePg	43	05.32	0.0
GRG	0.63	260	ePg	43	08.14	-0.2
			eSg	43	17.32	
OUR	0.93	141	ePg	43	13.78	0.4

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

% MAY 09, 1993 10h 50m 00.66± 0.89s
44.798 N ± 6.8km 7.633 E ± 7.0km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.1 (GEN).

BHB	0.27	280	P	50	07.70	1.4
			S	50	12.51	
PZZ	0.48	233	P	50	10.17	-0.3
			S	50	16.99	
ROB	0.53	161	P	50	12.00	0.6
			S	50	19.69	
ENR	0.59	195	P	50	12.23	-0.5
			S	50	20.15	
STV	0.60	202	P	50	12.05	-0.7
			S	50	19.78	
PCP	0.70	111	P	50	14.84	0.3
			S	50	24.59	
LSD	0.74	333	P	50	14.48	-0.9
			S	50	23.67	

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

MAY 09, 1993 11h 05m 18.38± 0.86s
8.445 N ± 8.1km 123.064 E ± 7.0km
DEPTH = 49.3 ± 10.2 km
4.6mb (6 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

CGP	1.61	90	iPd	05	44.00	-0.9
			iS	06	03.00	
CTB	1.67	138	eP	05	16.00	-29.7X
DAV	2.83	118	eP	06	04.10	2.0
PLP	3.30	35	ePc	06	08.50	-0.3
PPR	4.48	288	iPc	06	23.50	-1.9
			iS	07	16.00	
PGP	5.44	338	iPd	06	40.00	1.0
			iS	06	59.00	
TSM	6.60	232	iPd	06	56.00	0.6
KKM	7.20	251	ePc	07	03.00	-0.8
			e	08	23.40	
NST	23.53	290	eP	10	27.50	2.4X
BDT	25.01	293	eP	10	34.80	-4.6X
CHTO	25.57	296	eP	10	45.60	0.9
BJI	32.06	350	eP	11	41.50	-1.2
LZH	32.62	330	eP	11	46.50	-1.4
	1.4s		16.00nm			4.7mb
WARB	34.60	174	eP	12	02.80	-2.0
	0.4s		4.00nm			4.7mb
GUN	40.05	304	P	12	52.40	1.3
	0.7s		33.00nm			5.3mb
PKI	40.32	303	P	12	54.40	1.1
KKN	40.50	303	P	12	55.60	0.9
	0.6s		12.00nm			4.8mb
DMN	40.58	303	P	12	56.80	1.4
STK	43.84	157	eP	13	21.60	0.1
	0.7s		2.20nm			4 0mb
GBA	45.03	281	P	13	44.00	12.7X
ARMA	47.39	146	eP	13	50.30	0.4
MBC	88.16	12	eP	18	05.00	0.2
YKA	96.69	23	eP	18	43.10	-1.4
	0.8s		0.20nm			3.7mb

S.D. = 1.3 on 19 of 23 obs.

% MAY 09, 1993 11h 15m 21.47± 0.94s
31.504 S ±13.5km 68.865 W ± 8.8km
DEPTH = 33.0km (normal)
SAN JUAN PROVINCE, ARGENTINA (137)

RTCB	0.06	73	ePc	15	26.70	-0.5
RTLL	0.38	63	iPc	15	30.90	0.5
RTBS	0.53	252	iPd	15	32.40	0.0
			S	15	39.50	
CFA	0.54	101	iPc	15	32.20	-0.6
			S	15	40.00	
RTPR	2.35	60	ePc	16	04.40	5.8X
RFA	3.28	174	ePc	16	12.00	0.2
			i	16	18.60	
			S	17	00.30	
TCA	3.66	89	ePd	16	28.00	10.8X
			S	17	13.50	

S.D. = 0.7 on 5 of 7 obs.

& MAY 09, 1993 11h 53m 12.09s
61.747 N 150.862 W
DEPTH = 53.8km
SOUTHERN ALASKA (2)
<AEIC>. ML 2.7 (AEIC).

SUA	0.29	169	iPd	53	21.96	0.2
			eS	53	30.28	
SKT	0.39	307	iPc	53	21.90	-0.7
			eS	53	30.36	
PWA	0.48	101	P	53	23.20	-0.2
			S	53	33.00	
CGLM	0.70	232	eP	53	25.90	-0.4
			eS	53	36.72	
CRP	0.79	233	ePc	53	26.13	-1.3
			eS	53	37.66	
CPAM	0.79	232	iPc	53	26.77	-0.6
			eS	53	39.19	
PMS	0.80	128	P	53	26.70	-0.8
SPU	0.81	226	iPc	53	26.87	-0.7
			eS	53	38.74	
CP2	0.82	234	eP	53	26.80	-1.1
			eS	53	38.82	
CKN	0.82	231	ePc	53	27.32	-0.4
PLRM	0.84	100	iPc	53	27.00	-0.9
			eS	53	39.87	
PMR	0.84	100	ePc	53	26.62	-1.3
			eS	53	39.59	
CKT	0.85	230	iPc	53	27.32	-0.8
			eS	53	39.49	
BGL	0.88	237	ePc	53	27.82	-0.7
CKL	0.90	233	iPc	53	28.03	-0.8
			eS	53	40.73	
GHO	0.92	88	ePc	53	28.52	-0.6
			S	53	42.78	
NKA	1.02	190	eP	53	31.67	1.3
SML	1.20	86	iPc	53	31.85	-1.1
PTE	1.25	134	ePc	53	32.58	-1.0
			eS	53	49.51	
SLKM	1.28	166	ePd	53	32.79	-1.2
			eS	53	50.22	
HUR	1.36	24	eP	53	34.52	-0.6
			eS	53	52.47	
DFR	1.46	218	eP	53	35.87	-0.7
MPA	1.46	149	ePc	53	35.36	-1.0
			S	53	55.66	
REF	1.55	216	eP	53	37.26	-0.6
			eS	53	57.20	
NCT	1.56	221	eP	53	37.10	-0.8
			eS	53	57.12	
RDW	1.58	218	eP	53	37.78	-0.6
			eS	53	57.98	
RSO	1.58	216	ePc	53	37.84	-0.5
			eS	53	57.30	
RS2	1.58	216	eP	53	37.78	-0.6
			eS	53	58.38	
RS1	1.59	216	eP	53	37.82	-0.6
			eS	53	59.16	
SCM	1.68	85	ePc	53	38.30	-1.3
TRF	1.73	9	eP	53	39.05	-1.4
SEW	1.79	157	eP	53	40.22	-0.8
BRLK	1.99	180	eP	53	44.05	0.1
			eS	54	10.67	

INE	2.00	213	eP	53 43.03	-1.2
			eS	54 09.38	
MCK	2.18	23	eP	53 46.08	-0.5
CNPM	2.24	185	eP	53 46.92	-0.5
VLZ	2.26	104	eP	53 45.20	-2.5
			eS	54 13.14	
KLU	2.37	94	ePc	53 47.07	-2.3
SVW	2.38	256	P	53 47.00	-2.4
HIN	2.52	121	eP	53 48.38	-2.9
SDG	2.62	70	eP	53 50.63	-2.1
TTA	2.68	299	P	53 51.90	-1.8
CVA	2.76	114	eP	53 51.55	-3.2
PAX	2.80	62	eP	53 53.43	-2.0
CCB	3.22	24	eP	54 00.30	-1.1
GLB	3.38	92	eP	54 02.04	-1.7
FBA	3.45	22	eP	54 01.26	-3.4
CROM	3.86	102	eP	54 09.69	-0.9
TGL	4.01	101	eP	54 09.91	-2.6
BALM	4.16	96	eP	54 11.68	-3.0
IMA	4.51	345	eP	54 15.57	-4.1
YAH	4.64	103	eP	54 18.27	-3.3
CTGM	4.65	96	eP	54 19.39	-2.2

53 obs. associated

& MAY 09, 1993 11h 57m 08.06s
62.821 N 149.267 W
DEPTH = 81.1km
CENTRAL ALASKA (1)
<AEIC>.

HUR	0.23	313	iPc	57 20.05	-0.3
			eS	57 29.32	
RND	0.62	18	iPd	57 22.96	-0.3
			eS	57 34.26	
TRF	0.78	324	iPd	57 25.03	-0.1
			eS	57 37.80	
MCK	0.93	9	ePd	57 26.44	-0.2
			eS	57 40.99	
GHO	1.06	171	iPc	57 28.24	-0.1
			eS	57 44.36	
SML	1.11	156	iPc	57 28.51	-0.3
			eS	57 44.83	
PWA	1.21	194	P	57 30.20	0.2
			S	57 47.90	
PLRM	1.24	177	eP	57 29.97	-0.4
			eS	57 48.91	
PMR	1.24	177	eP	57 29.73	-0.6
SCM	1.34	137	ePc	57 31.49	-0.3
			eS	57 50.60	
SKT	1.35	232	iPd	57 31.71	-0.2
			eS	57 49.70	
SUA	1.53	208	ePd	57 34.30	0.0
			eS	57 54.96	
PMS	1.59	185	P	57 34.90	-0.1
THY	1.71	68	eP	57 37.26	0.7
WRH	1.74	17	ePd	57 36.15	-0.8
			eS	57 57.13	
SDG	1.74	98	iPd	57 36.94	-0.2
			eS	58 00.36	
PAX	1.75	83	ePd	57 36.67	-0.5
			eS	57 59.45	
NEA	1.77	3	eP	57 36.51	-0.8
			S	57 57.63	
CCB	1.94	19	ePd	57 38.80	-1.0
TZL	1.95	112	ePd	57 39.95	0.1
PTE	1.97	177	eP	57 40.26	0.2
KLU	2.06	129	ePd	57 40.23	-1.2
CRP	2.07	222	eP	57 41.50	-0.1
CPAM	2.07	222	eP	57 41.46	-0.2
CP2	2.10	223	eP	57 42.13	0.0
SPU	2.11	220	eP	57 41.38	-0.7
CKN	2.11	222	eP	57 42.41	0.3
CKT	2.14	222	eP	57 41.90	-0.6
BGL	2.15	225	eP	57 42.46	-0.2
CKL	2.18	223	eP	57 42.54	-0.6
FBA	2.19	17	ePd	57 41.99	-1.1
			eS	58 05.81	
VLZ	2.19	139	eP	57 41.42	-1.7
			eS	58 08.46	
MDM	2.20	12	ePd	57 42.50	-0.7
			eS	58 08.08	
NKA	2.29	205	eP	57 47.83	3.4
MPA	2.34	181	eP	57 45.39	0.2
SLKM	2.37	192	eP	57 45.72	0.1
SEW	2.73	182	eP	57 50.55	0.1
HIN	2.77	150	eP	57 49.23	-1.9
CVA	2.83	142	eP	57 50.95	-1.0
REF	2.86	217	eP	57 53.91	1.4
RDW	2.89	217	eP	57 52.84	-0.1
RSO	2.89	217	eP	57 53.32	0.3
RS1	2.90	217	eP	57 53.48	0.4
TMW	2.90	77	eP	57 51.96	-0.9
GLB	2.91	116	ePd	57 52.01	-1.1
TTA	3.09	275	P	57 55.00	-0.6
PRP	3.17	30	eP	57 55.73	-1.0
			S	58 31.76	
CNPM	3.44	197	eP	57 59.57	-0.9
SVW	3.46	243	P	57 59.50	-1.2
CROM	3.57	123	eP	58 00.83	-1.6
TGL	3.69	121	eP	58 02.00	-2.0
BALM	3.73	116	ePd	58 02.52	-2.0
IMA	3.78	332	eP	58 03.63	-1.6
PDB	3.86	220	eP	58 06.33	0.1
CTGM	4.19	113	eP	58 09.48	-1.5
YAH	4.36	121	eP	58 11.26	-2.2
MCNL	4.40	216	eP	58 12.85	-1.0
CDD	4.45	211	eP	58 13.17	-1.4
SYI	4.49	201	eP	58 13.26	-1.8

59 obs. associated

MAY 09, 1993 12h 00m 31.07± 0.52s
36.717 N ± 5.2km 116.282 W ± 4.5km
DEPTH = 5.0km (geophysicist)
CALIFORNIA-NEVADA BORDER REGION (40)
ML 3.0 (GS).

TPNV	0.23	6	ePc	00 36.53	0.7
			eS	00 39.43	
GSC	1.47	197	eP	00 59.17	0.8
TNP	1.55	332	eP	00 59.73	0.1
			eS	01 20.19	
MRCM	2.02	299	ePn	01 06.33	0.0
BONR	2.03	308	ePn	01 06.41	-0.2
			ePg	01 08.42	
			eS	01 36.31	
ISA	2.06	240	ePn	01 06.49	-0.4
			ePg	01 10.12	
MMPM	2.37	293	ePn	01 11.04	-0.5
ARUT	2.51	64	ePn	01 12.90	-0.4
			ePg	01 19.07	
KVN	2.74	329	(Pn)	01 16.98	0.3
			ePg	01 21.39	
SSK	2.75	205	eP	01 23.35	6.5X
CMB	3.52	293	ePn	01 27.51	-0.1
			ePg	01 35.04	
MSU	3.72	60	ePn	01 30.45	-0.2
			ePg	01 40.07	
DUG	4.41	37	ePn	01 40.24	-0.1
			ePg	01 54.07	
			eSg	02 49.22	
PV09	5.95	70	(Pg)	02 18.46	16.2X
PV10	5.99	72	ePg	02 14.42	11.7X

S.D. = 0.5 on 12 of 15 obs.

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* MAY 09, 1993 12h 52m 59.43± 1.76s
1.884 N ±14.3km 122.760 E ±13.3km
DEPTH = 69.9 ± 17.1 km
4.4mb (3 obs.)
MINAHASSA PENINSULA, SULAWESI (265)

MNI	2.12	102	eP	53 33.30	-0.1
			eS	53 56.40	
TSM	5.44	296	eP	54 28.00	8.2X
MKS	7.78	205	iPd	54 52.50	0.2
WB2	24.49	153	iPc	58 13.40	-0.2
	0.5s		14.70nm	4.7mb	
NANU	25.30	196	eP	58 21.50	0.4
ASPA	27.61	158	eP	58 43.30	0.9
	0.5s		3.90nm	4.3mb	
	Z 21s		0.10um	3.4Msz	
WARB	28.15	173	eP	58 45.40	-1.8
STK	38.04	154	eP	00 13.50	0.7
	0.4s		1.90nm	4.4mb	
GUN	43.72	310	P	01 00.00	0.0

S.D. = 1.1 on 8 of 9 obs.

? MAY 09, 1993 14h 40m 11.36± 0.77s
37.371 N ±11.8km 70.773 E ±12.4km
DEPTH = 33.0km (normal)
3.9mb (4 obs.)
AFGHANISTAN-TAJIKISTAN BORD REG.(717)

QUE	7.84	205	eP	42 06.00	-0.1
			eS	43 24.00	
NDI	10.21	146	e(P)	42 38.00	-0.7
GKN	14.94	125	P	43 45.00	3.1X
KKN	15 50	124	P	43 49.40	0.1
DMN	15.51	125	P	43 53.20	3.7X
PKI	15.73	124	P	43 54.00	1.6
GUN	15.82	122	P	43 53.20	-0.4
HFS	42.27	321	eP	48 03.70	0.8
	0.4s		2.20nm	4.2mb	
	Z 47s		0.78um	4.2MszX	
			LR	08 00.00	
NB2	43.58	323	P	48 14.40	0.8
	0.7s		3.20nm	4.2mb	
YKA	80.39	3	eP	52 18.50	-1.9
	0.6s		0.40nm	3.6mb	
WRA	82.61	122	P	52 24.60	-8.1X
	1.0s		0.50nm	3.5mb	
WB2	82.61	122	eP	52 21.90	-10.9X
	0.4s		2.40nm		

S.D. = 1.3 on 8 of 12 obs.

? MAY 09, 1993 14h 45m 48.43± 4.24s
31.658 S ±53.3km 68.729 W ±19.9km
DEPTH = 105.9 ± 33.4 km
SAN JUAN PROVINCE, ARGENTINA (137)

RTCB	0.18	341	iPd	46 03.80	-0.1
			S	46 16.00	
RTLL	0.40	34	iPc	46 04.50	0.0
			S	46 16.70	
CFA	0.42	83	iPc	46 04.60	0.0
			S	46 17.50	
RTBS	0.62	270	ePd	46 05.90	0.0
			S	46 19.00	
RTPR	2.34	55	ePc	46 26.10	0.0

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

% MAY 09, 1993 14h 53m 01.08± 0.86s
44.343 N ± 7.2km 7.274 E ± 8.9km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.0 (GEN).

STV	0.11	160	P	53 03.55	-0.4
			S	53 05.19	
ENR	0.16	138	P	53 04.92	0.1
			S	53 06.93	
PZZ	0.20	323	P	53 06.02	0.4
			S	53 09.18	
ROB	0.43	96	P	53 09.82	-0.1
			S	53 16.45	
BHB	0.50	359	P	53 10.78	-0.4
			S	53 17.87	
FIN	0.68	101	P	53 15.00	0.3
			S	53 24.20	

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

& MAY 09, 1993 14h 56m 40.21s
34.963 N 116.948 W
DEPTH = 0.0km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 2.9 (PAS).

GSC	0.36	19	iPd	56 47.37	0.0
SSK	0.97	220	eP	56 58.62	-1.1
			eS	57 11.54	
PEC	1.08	189	eP	57 00.23	-1.3
PLM	1.61	177	ePd	57 09.34	-0.8
ABL	1.87	267	ePn	57 12.13	-1.9
			ePg	57 14.75	
TPNV	2.06	16	(P)	57 19.06	2.4
MMPM	3.13	328	(P)	57 30.65	-1.4
BONR	3.18	340	(Pn)	57 32.28	-0.4
MSU	5.22	46	(P)	58 00.34	-1.4

9 obs. associated

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* MAY 09, 1993 15h 17m 55.32± 1.98s
32.188 S ±10.6km 68.492 W ±14.1km
DEPTH = 116.2 ± 23.1 km
MENDOZA PROVINCE, ARGENTINA (139)

CFA	0.62	20	iPc	18 14.00	0.0
			S	18 29.00	
RTCB	0.75	339	iPc	18 15.00	-0.1
			S	18 30.00	
MDZ	0.76	203	iP	18 15.20	0.1
			i	18 23.70	
			iS	18 30.00	

09d 15h

RTLL	0.86	1	iPd	18	16.00	0.0
			S	18	31.50	
RTBS	0.97	302	ePc	18	16.90	-0.1
RTPR	2.53	43	ePc	18	36.00	0.1
TCA	3.43	77	iPd	18	47.90	-0.2
			S	19	27.00	
CYA	4.40	33	e(P)	19	01.30	0.1

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

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* MAY 09, 1993 15h 32m 21.55± 0.59s
49.552 N ±12.5km 156.197 E ± 7.0km
DEPTH = 33.0km (normal)
4.4mb (20 obs.)
KURIL ISLANDS (221)

ADK	17.29	72	iPc	36	22.34	0.6
YAK	19.25	320	eP	36	44.20	-1.4
FBA	32.69	41	iPc	38	52.25	-0.2
	0.6s	5.30nm			4.6mb	
INK	38.17	34	eP	39	41.00	2.0
	0.8s	3.00nm			4.2mb	
MBC	41.25	21	eP	40	05.50	1.1
YKA	47.44	39	eP	40	53.90	-0.5
	0.9s	1.90nm			4.1mb	
GUN	56.81	275	P	42	00.00	-5.4X
BW06	61.45	57	iPc	42	36.42	-0.7
FRB	61.71	21	eP	42	36.50	-1.8
MSU	62.87	62	eP	42	46.63	0.0
RSSD	63.46	53	iPd	42	50.09	-0.4
PV08	64.83	60	iPc	42	59.10	-0.5
WRA	71.86	202	P	43	43.20	0.3
	0.8s	0.80nm			3.8mb	
LTX	74.35	63	iPc	43	56.48	-1.2
GAC	75.03	35	eP	44	01.00	-0.2
GEC2	76.80	336	P	44	11.00	-0.3
	0.5s	0.33nm			3.6mb	
		e		44	13.50	
		e		44	15.80	
CDF	78.80	339	eP	44	22.10	-0.2
	0.7s	1.85nm			4.2mb	
LDF	80.13	344	eP	44	29.00	-0.3
	0.8s	9.00nm			4.8mb	
GRR	80.45	345	eP	44	31.30	0.3
	0.6s	7.20nm			4.8mb	
LOR	80.63	341	eP	44	32.00	0.0
	0.4s	0.95nm			4.1mb	
LPF	80.83	345	eP	44	32.80	-0.2
	0.5s	3.05nm			4.6mb	
LBF	80.88	341	eP	44	33.10	-0.3
	0.6s	1.25nm			4.1mb	
SSF	80.90	341	eP	44	33.40	0.0
	0.6s	1.55nm			4.2mb	
AVF	81.19	341	eP	44	35.10	0.2
LPL	81.65	339	eP	44	38.50	0.8
	0.7s	5.85nm			4.7mb	
LPG	81.67	339	eP	44	38.70	0.9
	0.6s	4.70nm			4.7mb	
MAF	81.90	342	eP	44	39.30	0.6
	0.8s	3.75nm			4.5mb	
TCF	81.90	342	eP	44	38.60	-0.1
	0.8s	2.15nm			4.2mb	
MFF	82.05	344	eP	44	40.00	0.6
	0.6s	3.50nm			4.6mb	
LSF	82.07	343	eP	44	39.90	0.3
LRG	83.69	338	eP	44	48.50	0.6
	0.7s	5.30nm			4.8mb	
LMR	83.76	338	eP	44	48.70	0.4
	0.8s	4.45nm			4.7mb	
PGF	83.87	336	eP	44	49.00	0.0
	0.6s	2.45nm			4.5mb	

S.D. = 0.8 on 32 of 33 obs.

MAY 09, 1993 16h 21m 18.26± 1.78s
58.300 N ±13.6km 142.823 W ± 8.2km
DEPTH = 10.0km (geophysicist)
GULF OF ALASKA (15)
ML 2.5 (AEIC).

CYK	1.80	5	eP	21	49.79	0.3
			S	22	10.60	
KAIM	1.83	334	eP	21	50.81	0.9
			eS	22	10.87	
SNH	1.89	360	eP	21	51.17	0.3
			eS	22	13.38	
YAH	2.14	14	eP	21	54.79	0.0
			S	22	18.48	
RAGM	2.30	336	eP	21	57.01	0.2
TGL	2.46	360	eP	21	59.11	-0.1
CROM	2.47	356	iP	21	59.12	-0.2
CVA	2.70	328	eP	22	02.07	-0.5
BALM	2.76	5	iP	22	03.28	-0.1
			S	22	34.00	
CTGM	2.78	15	eP	22	03.25	-0.5
			eS	22	34.95	
HIN	2.82	320	eP	22	04.52	0.3
GLB	3.19	351	eP	22	09.20	-0.3
VLZ	3.35	329	eP	22	11.38	-0.3
KLU	3.56	335	eP	22	14.67	-0.1
SEW	3.86	301	eP	22	18.74	-0.1
MPA	4.00	306	eP	22	20.11	-0.7
PTE	4.07	312	eP	22	21.29	-0.5
SCM	4.20	329	eP	22	23.84	0.0
SML	4.47	324	eP	22	27.54	-0.1
CNPM	4.53	289	eP	22	28.97	0.5
PLRM	4.58	319	eP	22	29.20	0.1
GHO	4.63	321	eP	22	30.20	0.2
PAX	4.86	346	eP	22	34.00	0.7
SYI	5.04	278	eP	22	35.74	0.2
CP2	5.61	306	(P)	22	43.69	-0.2

S.D. = 0.4 on 25 of 25 obs.

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* MAY 09, 1993 17h 15m 55.27± 1.36s
31.264 S ±11.9km 68.005 W ±15.6km
DEPTH = 106.1 ± 19.4 km
SAN JUAN PROVINCE, ARGENTINA (137)

CFA	0.40	210	iPc	16	11.20	-0.1
			S	16	21.50	
RTLL	0.40	261	iPc	16	11.00	-0.4
			S	16	22.50	
RTCB	0.72	252	iPd	16	13.50	-0.2
			S	16	25.50	
RTCV	0.75	217	iPd	16	13.50	-0.5
			S	16	26.50	
RTBS	1.30	252	ePd	16	20.40	0.6
			S	16	39.00	
RTPR	1.60	54	iPc	16	24.50	1.0
MDZ	1.77	204	eP	16	26.80	1.2
CYA	3.40	35	eP	16	46.70	-0.7
			S	17	24.60	
RFA	3.52	186	ePc	16	48.20	-0.8
			(S)	17	22.00	

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

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* MAY 09, 1993 17h 26m 17.12± 0.84s
31.100 S ±11.9km 67.725 W ± 9.4km
DEPTH = 33.0km (normal)
SAN JUAN PROVINCE, ARGENTINA (137)

CFA	0.67	221	eP	26	29.00	-1.2
			S	26	39.00	
RTLL	0.68	250	ePd	26	29.80	-0.5
			S	26	40.00	
RTCB	1.00	247	eP	26	36.20	1.3
			S	26	50.50	
MDZ	2.02	208	eP	26	52.90	3.3X
TCA	2.70	96	iPc	26	59.30	0.1
			S	27	36.30	
CYA	3.13	33	ePd	27	05.20	-0.2
			(S)	27	42.30	
RFA	3.71	189	eP	27	14.00	0.4
			i	27	22.80	
			S	28	11.70	

S.D. = 1.1 on 6 of 7 obs.

% MAY 09, 1993 17h 32m 29.88± 2.02s
38.678 N ± 6.5km 15.100 E ±20.1km
DEPTH = 10.0km (geophysicist)
SICILY (398)

ATN	0.59	151	P	32	41.30	-0.5
SOI	0.96	129	P	32	49.00	0.8
			eSg	33	02.00	
CZI	0.97	56	P	32	48.70	0.4
ACI	1.09	52	P	32	50.60	0.2
TDS	1.37	44	P	32	54.10	-0.9
CSI	1.43	40	P	32	56.30	0.4
ROI	1.45	52	P	32	55.10	-1.1
MGR	1.50	13	P	32	57.50	0.7

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

MAY 09, 1993 17h 42m 04.61± 0.35s
35.177 N ± 9.1km 59.194 E ± 5.4km
DEPTH = 10.0km (geophysicist)
4.9mb (34 obs.)
NORTHERN IRAN (348)
Several houses damaged at Torbat-e Heydariyeh.

MAIO	1.15	12	iPnd	42	26.00	-0.1
			eSn	42	43.00	
TEH	6.40	277	eP	43	42.50	1.1
QUE	8.21	125	eP	44	06.90	0.1
			eS	46	35.70	
TAB	10.74	289	eP	44	46.00	4.4X
HRI	19.48	271	eP	46	40.10	5.4X
SALJ	19.83	268	P	46	39.80	1.4
SHWJ	20.47	263	P	46	44.90	-0.4
MKT	20.57	265	eP	46	50.90	4.7X
KAS	20.86	295	eP	46	51.00	1.9
CSS	21.16	277	eP	46	52.00	-0.2
SAGI	21.21	263	eP	46	58.00	5.2X
GKN	22.78	101	P	47	07.40	-1.2
	1.0s	66.00nm			5.1mb	
DMN	23.33	102	P	47	15.40	1.4
KKN	23.39	101	P	47	14.00	-0.6
	1.0s	38.00nm			4.9mb	
PKI	23.59	101	P	47	16.40	-0.2
	1.0s	42.00nm			5.0mb	
ELL	23.72	282	iP	47	18.60	1.0
GUN	23.82	100	P	47	18.00	-1.0
	1.0s	52.00nm			5.1mb	
HYB	24.70	131	eP	47	27.60	0.4
OBN	25.31	329	iPc	47	34.00	1.4
	1.5s	77.00nm			5.2mb	
Z	16s	0.40um			4.0MszX	
N	16s	0.10um				
E	16s	0.40um				
		i		47	52.00	
		i		48	08.80	
		iPP		48	17.00	
		e		49	05.00	
		eS		52	02.00	
		LO		56	34.00	
		LR		59	12.00	
GBA	27.06	138	P	47	50.00	0.9
CMP	27.78	302	ePc	47	58.00	2.5
SRO	32.74	305	eP	48	42.40	3.0X
ZST	33.60	306	eP	48	47.80	0.9
KSP	34.52	310	eP	48	56.00	1.2
DUI	35.33	294	P	49	03.60	1.6
RBL	35.86	302	P	49	07.70	1.3
GEC2	35.91	307	P	49	06.90	0.0
	1.0s	1.53nm			3.8mb X	
BRG	35.99	310	eP	49	09.20	1.8
	1.6s	25.00nm			4.8mb	
KHC	36.02	307	eP	49	08.00	0.3
			e	50	32.50	
			e	51	39.00	
KBA	36.04	304	i(P)	49	10.10	2.0
LZH	36.06	75	eP	49	11.20	2.8X
	1.8s	24.00nm			4.8mb	
Z	20s	0.84um			4.5Msz	
E	12s	0.71um				
CLL	36.64	311	e(P)	49	18.00	5.2X
CTI	37.19	302	P	49	18.50	0.9
PGD	37.20	298	P	49	18.30	0.5
WTTA	37.21	304	iPc	49	16.10	-1.8
	1.6s	48.10nm			5.0mb	
		i		49	17.10	
		i		49	18.70	
MOX	37.43	309	e(P)	49	21.50	2.0
	2.2s	31.00nm			4.7mb	
FIR	37.54	298	eP	49	21.00	0.5
GRF	37.60	308	eP	49	20.50	-0.5
Z	16s	0.20um			4.0MszX	
HFS	38.38	325	eP	49	25.40	-1.9
	0.8s	5.50nm			4.4mb	
CHTO	38.70	104	iPc	49	29.80	-0.7
KMI	38.70	93	Pd	49	31.00	0.2
	1.6s	50.00nm			5.0mb	
Z	20s	0.90um			4.6Msz	
		pP		49	39.50	29kmX
BOB	38.78	300	P	49	32.80	1.8
VAI	39.20	302	P	49	34.90	0.6
PGF	39.29	296	eP	49	33.60	-1.7
	1.2s	19.95nm			4.7mb	
BDT	39.62	106	eP	49	31.20	-6.9X
NB2	39.83	326	P	49	37.80	-1.7
	0.9s	2.40nm			3.9mb	
CDF	40.15	306	eP	49	42.10	-0.3

	1.1s	6.60nm		4.2mb		
SBF	40.29	299 eP	49 42.30	-1.2		
	0.9s	13.60nm		4.6mb		
LPG	40.63	301 eP	49 45.20	-1.4		
	2.0s	61.80nm		5.0mb		
LPL	40.65	301 eP	49 45.30	-1.3		
HAU	40.78	305 eP	49 45.80	-1.7		
	1.1s	9.50nm		4.4mb		
FRF	40.89	298 eP	49 47.00	-1.4		
	1.6s	37.95nm		4.9mb		
LRG	41.11	298 eP	49 49.00	-1.1		
	1.5s	17.75nm		4.6mb		
LBF	42.44	304 eP	49 59.70	-1.4		
	1.4s	19.15nm		4.6mb		
LOR	42.50	304 eP	50 00.10	-1.5		
	0.9s	4.60nm		4.2mb		
Z	21s	0.13um		3.8Msz		
SMF	42.56	303 eP	50 01.00	-1.1		
	1.6s	67.80nm		5.1mb		
SSF	42.76	304 eP	50 02.50	-1.1		
	1.7s	58.80nm		5.0mb		
AVF	42.88	303 eP	50 03.50	-1.2		
	1.7s	64.70nm		5.1mb		
MAF	43.48	303 eP	50 08.90	-0 6		
	1.7s	56.60nm		5.1mb		
TCF	43.72	303 eP	50 10.80	-0.7		
	1.6s	44.80nm		5.0mb		
CAF	43.99	301 eP	50 12.90	-0.8		
	1.8s	50.05nm		5.0mb		
LSF	44.19	303 eP	50 14.00	-1.3		
	1.2s	14.90nm		4.7mb		
RJF	44.32	301 eP	50 15.70	-0.7		
	1.8s	50.95nm		5.1mb		
Z	21s	0.10um		3.7Msz		
LPO	44.64	301 eP	50 17.90	-1.0		
	1.8s	35.40nm		5.0mb		
MFF	45.30	303 eP	50 22.60	-1.6		
	1.3s	28.15nm		5.1mb		
YAK	50.61	35 eP	51 05.80	0.5		
	1 0s	30.00nm		5.2mb		
MBC	68.85	360 eP	53 12.00	1.3		
FBA	78.03	11 eP	54 06.50	2.0		
YKA	82.54	357 eP	54 30.60	2.1		
	0.9s	0.80nm		3.9mb		
WRA	89.82	115 P	55 04.70	-0.3		
	0.6s	0.70nm		4.1mb		
S.D. = 1.3 on 62 of 70 obs.						

% MAY 09, 1993 17h 45m 12.85± 0.78s
42.746 N ± 6.0km 13.058 E ± 9.4km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ASS	0.44	318 Pd	45 21.80	0.0		
		eSg	45 29.10			
MNS	0.46	218 Pc	45 22.10	-0.1		
		eSg	45 30.00			
AOU	0.47	147 P	45 22.10	-0.3		
		eSg	45 30.10			
ARV	0.76	354 P	45 27.60	-0.1		
		eSg	45 39.00			
SDI	1.18	151 P	45 35.30	0.4		
S.D. = 0.3 on 5 of 5 obs.						

MAY 09, 1993 17h 52m 10.47± 0.34s
57.679 N ± 3.3km 143.118 W ± 2.9km
DEPTH = 10.0km (geophysicist)
4.0mb (5 obs.)
GULF OF ALASKA (15)
ML 4.1 (PGC), 3.6 (PMR), 3.3 (AEIC).

KAIM	2.35	344 eP	52 50.25	0.5		
		eS	53 17.26			
CYK	2.43	7 eP	52 51.14	0.3		
		eS	53 19.74			
MID	2.43	317 P	52 51.70	0.8		
SNH	2.51	3 eP	52 52.15	0.1		
		eS	53 22.03			
YKU	2.58	42 eP	52 52.50	-0.5		
YAH	2.78	14 iP	52 55.99	-0.1		
RAGM	2.83	344 eP	52 56.70	0.1		
CROM	3.09	360 eP	52 59.96	-0.4		
TGL	3.09	3 eP	53 00.04	-0.2		
CVA	3.18	336 eP	53 01.06	-0.4		
		eS	53 38.06			
HIN	3.24	329 eP	53 02.51	0.2		
		eS	53 38.61			
BALM	3.39	6 eP	53 04.26	-0.3		
CTGM	3.42	15 eP	53 04.57	-0.5		
GLB	3.79	355 eP	53 09.89	-0.4		
VLZ	3.83	336 eP	53 10.62	-0.1		
KLU	4.08	341 eP	53 13.94	-0.4		
SEW	4.09	309 eP	53 14.29	0.0		
SIT	4.27	95 eP	53 10.66	-6.2X		
		Sg	53 50.40			
MPA	4.28	314 eP	53 17.03	0.0		
PTE	4.40	319 eP	53 18.38	-0.4		
TZL	4.53	346 eP	53 20.83	0.2		
BRLK	4.56	301 eP	53 21 49	0.4		
CNPM	4.63	297 eP	53 22.46	0.3		
SLKM	4.63	311 eP	53 20.22	-1.9		
SCM	4.68	335 eP	53 22.62	-0.2		
PMS	4.86	320 P	53 25.00	-0.3		
SML	4.91	330 eP	53 24.77	-1.3		
PLRM	4.97	325 eP	53 27.74	0.9		
PMR	4.97	325 eP	53 27.39	0.6		
SDG	5.01	347 eP	53 27.73	0.2		
KDC	5.03	275 eP	53 26.91	-0.7		
GHO	5.05	327 eP	53 29.26	1.2		
NKA	5.18	310 eP	53 30.60	0.8		
PWA	5.25	322 P	53 32.50	1.6		
SUA	5.42	318 eP	53 33.09	-0.3		
PAX	5.44	349 eP	53 34.57	1.0		
INE	5.68	299 eP	53 36.16	-1.0		
CDD	5.69	287 eP	53 37.73	0.6		
RSO	5.70	303 eP	53 37.56	0.2		
RS2	5.70	303 eP	53 37.82	0.4		
SPU	5.75	311 eP	53 37.43	-0.6		
CRP	5.84	312 eP	53 38.82	-0.5		
		eS	54 43.83			
CP2	5.88	312 eP	53 39.85	0.0		
		eS	54 44.53			
CKL	5.88	311 eP	53 39.64	-0.1		
SVW	7.25	304 eP	53 57.91	-1 1		
FBA	7.59	345 eP	54 05.00	1 3		
	0.8s	1.20nm		4.1mb		
TTA	8.28	315 eP	54 12.70	-0.8		
IMA	9.77	334 (P)	54 33.93	-0.1		
	0.7s	1.15nm		4.4mb X		
SDN	9.89	264 (P)	54 35.35	-0.2		
INK	11.50	18 eP	54 57.50	-0.1		
YKA	14.94	59 eP	55 48.00	4.9X		
	0.8s	5.90nm		4.1mb		
NEW	1B.17	110 eP	56 24.37	0.2		
	1.1s	15.98nm		4.1mb		
MBC	20.51	16 eP	56 51.50	0.7		
	0.8s	2.00nm		3.5mb		
LBFM	21.23	131 (P)	56 59.37	0.6		
BONR	25.57	130 (P)	57 40.18	-1.1		
BW06	25.80	111 (P)	57 42.66	-0.6		
	0.8s	1.53nm		3.7mb		
MHA	38.60	199 (P)	59 36.61	1.4		
S.D. = 0.7 on 55 of 57 obs.						

% MAY 09, 1993 18h 02m 42.22± 0.73s
26.828 S ± 6.3km 26.777 E ± 7.1km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.5 (PRE).

BFS	0.07	174 iPd	02 45.00	0.9		
PRY	0.63	99 eP	02 53.90	-0.9		
		S	03 12.00			
KSR	0.96	6 eP	03 01.00	-0.2		
		S	03 14.00			
SWZ	1.34	254 eP	03 07.00	-0.6		
		S	03 25.30			
SEK	1.67	153 eP	03 12.00	-0.4		
		S	03 30.50			
SLR	1.73	51 eP	03 14.40	1.1		
		S	03 36.90			
BLF	2.33	193 eP	03 22.00	0.0		
		S	03 51.50			
S.D. = 0.9 on 7 of 7 obs.						

% MAY 09, 1993 18h 42m 05.60± 0.46s
39.569 N ± 4.0km 28.858 E ± 4.4km
DEPTH = 5.0km (geophysicist)
TURKEY (366)
ML 3.1 (ISK).

KCT	0.78	331 iPg	42 21.50	0 2		
		eSg	42 32.00			
BNT	1.07	318 iPn	42 26.40	0.2		
YLV	1.07	21 iPn	42 26.70	0.4		
EDC	1.09	316 iPn	42 27.00	0.5		
ALT	1.10	117 iPn	42 27.00	0.2		
		eSg	42 42.00			
GPA	1.33	57 ePn	42 31.00	0.4		
KHL	1.35	157 ePn	42 31.40	0.4		
HRT	1.40	26 iPn	42 32.50	0.7		
EYL	1.41	45 ePn	42 33.00	1.0		
ISK	1.50	6 ePn	42 33.40	0.2		
IZM	1.71	227 ePn	42 37.00	0.8		
S.D. = 0.3 on 11 of 11 obs.						

? MAY 09, 1993 19h 56m 26.54± 7.51s
3.523 S ±72.0km 152.854 E ±37.8km
DEPTH = 73.2 ± 20.6 km
4.6mb (2 obs.)
NEW IRELAND REGION, P.N.G. (190)

RAB	0.96	226 iPc+	56 45.00	0.1		
	0.5s	2028.17nm				
		iS	56 56.00			
PMG	8.13	224 eP	58 24.00	-0.2		
BRS	23.73	180 iPd	01 33.00	0.0		
WB2	24.33	226 iPc	01 39.60	0.7		
	0.5s	20.80nm		4.8mb		
ASPA	27.14	221 eP	02 05.20	0.3		
	0.4s	4.10nm		4.3mb		
WARB	33.75	226 eP	03 02.50	-0.9		
S.D. = 0.9 on 6 of 6 obs.						

? MAY 09, 1993 20h 46m 25.61± 3.64s
37.910 S ±26.3km 175.948 E ±14.2km
DEPTH = 224.3 ± 27.3 km
NORTH ISLAND, NEW ZEALAND (159)

URZ	0.98	111 eP	46 57.10	-0.9		
		S	47 15.70			
WHH	1.06	156 P	46 58.00	-0.7		
PAHZ	1.29	138 P	46 59.90	-0.3		
MOH	1.54	143 eP	47 02.60	0.5		
TTH	1.77	157 eP	47 04.20	0.1		
NOZ	1.79	114 P	47 04.70	0.4		
WAHZ	1.81	170 P	47 04.70	0.1		
MAHZ	1.98	131 eP	47 06.90	0.8		
BSZ	2.05	203 P	47 07.90	1.2		
TEHZ	2.18	162 P	47 08.20	0.1		
MNG	2.73	187 P	47 13.90	0.0		
		eS	47 45.00			
KIW	3.06	195 P	47 17.60	0.0		
MTW	3.26	186 P	47 19.50	-0.5		
CAW	3.27	192 P	47 19.90	-0.1		
DIW	3.29	208 P	47 20.90	0.6		
MRW	3.45	196 P	47 22.00	-0.2		
BLW	3.47	186 eP	47 22.10	-0.4		
TCW	3.54	201 eP	47 23.00	-0.3		
MOW	3.55	188 P	47 22.90	-0.5		
KHZ	4.87	202 eP	47 39.50	0.1		
S.D. = 0.5 on 20 of 20 obs.						

? MAY 09, 1993 21h 49m 15.28± 1.14s
50.246 N ±18.7km 18.920 E ± 7.5km
DEPTH = 10.0km (geophysicist)
POLAND (548)
ML 2.7 (WAR).

RAC	0.49	251 ePg	49 24.50	-0.8		
		eSg	49 31.50			
OJC	0.56	92 iPgc	49 26.00	-0.7		
		iSg	49 43.30			
SPC	1.36	140 ePn	49 41.30	0.8		
		iSn	50 02.20			
		Lg	50 06.00			
KSP	1.78	291 iPg	49 47.00	0.7		
		iSg	50 10.50			
ZST	2.37	211 eP	50 35.20	40.4X		
SRO	2.47	190 eP	50 37.80	41.6X		
PRU	2.83	266 ePn	50 03.40	2.1X		
		ePg	50 09.10			
		Sg	50 40.00			
KHC	3.64	254 ePn	50 21.50	8.6X		
		ePg	50 30.00			
		e	51 03.00			
		e	51 09.00			
		eSg	51 21.00			
S.D. = 1.5 on 4 of 8 obs.						

09d 21h

% MAY 09, 1993 21h 53m 08.47± 1.41s
39.335 N ± 9.7km 16.334 E ±11.2km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

ACI	0.10	279	P	53 11.10	-0.1
CZI	0.19	233	P	53 12.90	0.2
ROI	0.30	38	P	53 14.60	-0.1
TDS	0.32	1	P	53 14.60	-0.6
			eSg	53 19.60	
CSI	0.44	356	P	53 18.50	1.0
MGR	1.00	323	P	53 27.10	-0.3
			eSg	53 34.10	

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

MAY 09, 1993 22h 16m 43.16± 0.26s
43.815 N ± 2.9km 128.033 W ± 3.6km
DEPTH = 10.0km (geophysicist)
4.9mb (49 obs.) 4.2Msz (3 obs.)
OFF COAST OF OREGON (30)

FHC	4.25	134	iPd	17 48.09	-1.4
BMW	4.32	50	iPc	17 50.18	-0.2
KMPM	4.47	138	(P)	17 52.65	0.1
SHW	4.75	58	iPc	17 57.42	0.8
LGPM	4.82	125	eP	17 55.98	-1.7
LBFM	5.16	116	eP	18 01.25	-1.3
WDC	5.21	127	eP	18 01.76	-1.2
GMW	5.24	43	eP	18 02.88	-0.5
LON	5.28	54	iPc	18 04.36	0.3
VGB	5.45	69	iPc	18 06.55	0.1
LMEM	5.81	122	eP	18 13.23	1.6
MCW	6.06	35	iPc	18 15.07	0.2
ORV	6.48	129	eP	18 20.45	-0.5
NTYM	6.77	141	eP	18 22.56	-2.4
HMR	7.36	138	eP	18 33.30	0.1
DPW	7.97	56	iPc	18 41.16	-0.7
ARN	8.13	140	eP	18 43.13	-1.0
COE	8.14	141	eP	18 42.02	-2.2
CMB	8.17	132	iPd	18 45.01	0.3
NEW	8.80	56	iPc	18 52.13	-1.2
KVN	8.85	119	eP	18 55.55	1.4
EBI	8.92	66	eP	18 53.67	-1.5
MMPM	9.22	129	iPc	19 00.03	0.5
MEMM	9.24	129	eP	19 00.81	1.5
BONR	9.41	125	eP	19 02.57	0.6
MRCM	9.48	127	eP	19 03.65	0.7
TNP	9.98	121	iPd	19 10.54	0.7
BCH	10.58	142	(P)	19 18.89	1.0
ABL	11.25	140	(P)	19 27.33	0.2
TPNV	11.30	123	(P)	19 28.81	1.0
HVU	11.40	95	eP	19 28.89	-0.2
LCCM	11.65	74	eP	19 32.00	-0.6
DUG	11.89	102	iPd	19 34.97	-0.8
GSC	12.13	131	eP	19 40.71	1.7
SSK	12.50	137	(P)	19 44.58	0.5
ARUT	12.58	114	eP	19 45.61	0.5
DAU	12.91	100	eP	19 49.49	-0.2
PEC	13.02	136	eP	19 51.11	0.2
MSU	13.07	108	eP	19 51.73	0.1
EMUT	13.45	101	(P)	19 56.71	0.0
BW06	13.50	88	iPc	19 57.81	0.4
PLM	13.60	136	eP	19 59.68	1.0
SRU	13.94	104	eP	20 03.46	0.3
GLA	14.90	132	eP	20 15.85	0.3
PV09	15.19	104	iPd	20 19.93	0.4
PV10	15.31	104	eP	20 22.76	1.7
PV08	15.49	103	eP	20 24.79	1.2
RSSD	17.27	81	eP	20 44.89	-1.2
	1.1s	109.68nm		4.9mb	
GOL	17.39	96	eP	20 47.05	-0.6
	1.6s	187.08nm		5.0mb	
GLD	17.48	96	iPc	20 48.38	-0.3
	1.6s	216.52nm		5.0mb	
TUC	17.75	125	iPd	20 53.58	1.6
	1.2s	28.86nm		4.3mb	
BALM	19.25	339	iPc	21 09.89	-0.4
YKA	20.29	18	eP	21 21.00	-0.4
	1.0s	21.60nm		4.4mb	
KLU	20.64	335	iPd	21 25.19	0.0
SLKM	21.38	329	iPd	21 32.59	-0.1
PMR	21.74	332	iPc	21 36.51	0.3
	1.3s	99.31nm		5.1mb	
RSO	22.32	327	eP	21 42.19	-0.1
ULM	22.72	62	ePc	21 56.00	9.9X
ACO	23.09	98	iPd	21 48.30	-1.6
SVW	23.84	326	eP	21 56.95	0.0
	0.9s	52.47nm		5.1mb	
FBA	23.85	339	eP	21 56.54	-0.4
	0.8s	7.07nm		4.3mb	
MEO	24.40	102	iPd	22 03.70	1.0
INK	24.72	355	eP	22 07.00	1.7
	1.0s	3.00nm		3.9mb	
FNO	25.01	100	iPd	22 09.10	0.6
TTA	25.05	330	eP	22 08.03	-0.6
	0.9s	14.31nm		4.7mb	
FCC	25.61	42	eP	22 19.00	5.2X
IMA	26.35	337	eP	22 20.65	-0.2
	2.3s	81.77nm		5.0mb	
UYO	27.66	99	iPc	22 32.60	-0.3
MIAR	28.10	97	eP	22 36.70	-0.2
	1.2s	48.64nm		5.2mb	
FVM	28.84	89	eP	22 42.38	-1.2
	0.8s	40.95nm		5.3mb	
ELC	29.99	89	eP	22 52.60	-1.3
BRW	30.93	342	eP	23 01.64	-0.2
MBC	32.74	4	eP	23 18.00	0.4
	0.9s	8.00nm		4.6mb	
EEO	34.16	68	eP	23 32.00	1.7
GBTN	34.33	88	eP	23 30.91	-1.0
JAO	35.12	55	ePc	23 38.20	-0.2
NAV	36.07	84	eP	23 46.55	-0.2
BLA	36.38	84	eP	23 49.62	0.2
	0.8s	44.92nm		5.4mb	
PRM	36.42	90	iPc	23 49.22	-0.4
GAC	36.81	68	ePc	23 53.60	0.8
JSC	37.13	89	iPc	23 55.03	-0.5
CVL	37.46	81	iPc	23 58.92	0.6
CEH	37.93	85	iPc	24 01.97	-0.3
	0.8s	45.13nm		5.3mb	
CBN	38.15	81	eP	24 04.30	0.2
	1.0s	39.00nm		5.1mb	
SGS	38.20	90	eP	24 04.29	-0.3
FRB	38.61	38	eP	24 09.00	1.3
	1.0s	10.00nm		4.5mb	
GPD	39.08	75	eP	24 11.56	-0.3
BNH	40.00	68	iPc	24 19.74	0.2
CBM	41.31	64	ePc	24 30.10	-0.1
	0.7s	21.64nm		5.0mb	
LMN	43.84	64	ePd	24 55.50	4.7X
DAG	51.95	16	eP	25 54.00	0.2
	0.8s	8 21nm		4.7mb	
YAK	57.60	327	eP	26 30.00	-5.1X
	0.8s	30.00nm		5.4mb	
SDF	67.41	10	iP	27 39.80	-0.5
MAT	68.24	300	(P)	27 54.00	8.0X
	1.6s	50.00nm		5.5mb	
NB2	70.38	20	P	27 58.40	-0.4
	0.9s	6.20nm		4.7mb	
HFS	71.77	19	eP	28 06.00	-1.1
	0.4s	0.70nm		4.1mb	
Z	18s	0.10um		4.1Msz	
		LR	53 31.00		
KAF	72.42	12	iP	28 09.60	-1.3
	0.8s	4.90nm		4.6mb	
UPP	72.91	17	iP	28 20.40	6.6X
NUR	73.66	14	iP	28 17.70	-0.5
	0.9s	9.30nm		4.8mb	
GRR	77.13	33	eP	28 38.70	0.5
	1.1s	27.85nm		5.3mb	
LPF	77.35	33	eP	28 39.90	0.5
	0.9s	8.70nm		4.8mb	
CLL	79.41	24	eP	28 51.00	0.4
	1.0s	9.00nm		4.7mb	
MOX	79.59	25	eP	28 52.00	0.4
	0.9s	10.00nm		4.8mb	
LOR	79.86	31	eP	28 53.40	0.2
	1.4s	24.40nm		5.0mb	
Z	21s	0.17um		4.4Msz	
SSF	79.90	31	eP	28 53.60	0.2
	1.1s	9.30nm		4.7mb	
TCF	80.05	33	eP	28 54.20	0.0
	1.3s	13.70nm		4.8mb	
BRG	80.07	23	iP	28 54.60	0.4
	0.8s	10 00nm		4.8mb	
AVF	80.07	32	eP	28 54.20	-0.1
	0.9s	7.85nm		4.7mb	
BGF	80.07	32	eP	28 54.30	0.0
	0.9s	6.70nm		4.6mb	
CDF	80.12	28	eP	28 54.90	0.3
	0.9s	13.10nm		4.9mb	
HAU	80.14	29	eP	28 55.00	0.3
	1.1s	6.85nm		4.5mb	
LBF	80.15	31	eP	28 54.90	0.2
	1.3s	10.85nm		4.7mb	
MAF	80.25	32	eP	28 55.70	0.5
	1.2s	12.20nm		4.8mb	
GRF	80.30	25	eP	28 57.00	1.5
Z	22s	0.10um		4.1Msz	
		e	29 03.20		
SMF	80.38	31	eP	28 55.80	-0.1
	1.0s	9.50nm		4.7mb	
BSF	80.45	29	eP	28 56.50	0.1
	1.0s	12.40nm		4.9mb	
OBN	80.60	9	eP	28 56.00	-0.9
		e	29 03.00		
		e	29 15.00		
KSP	80.75	22	eP	28 58.20	0.4
ZOBO	81.00	123	P	28 58.40	-1.8
	0.9s	30.71nm		5.3mb	
Z	24s	0.10um		4.1MszX	
		LR	58 48.00		
PRU	81.03	23	eP	28 58.90	-0.4
		e	29 05.30		
CAF	81.12	33	eP	28 59.80	-0.1
	1.3s	12.25nm		4.8mb	
LPB	81.21	123	P	29 00.00	-1.2
CNCB	81.50	123	P	29 02.30	-0.5
KHC	81.52	24	P	29 02.60	0.7
		e	29 09.60		
GEC2	81.81	24	PKP	29 02.70	-0.8
	0.7s	1.98nm		4.3mb	
		e	29 08.30		
		e	29 14.00		
		e	29 18.70		
WTTA	B2.57	26	iPc	29 08.10	0.5
CCH	B3.07	122	P	29 09.50	-1.2
KBA	B3.28	25	iPc	29 11.70	0.4
	1.2s	12.20nm		5.0mb	
SPC	83.30	20	eP	29 13.70	2.3
ZST	83.38	23	eP	29 12.30	0.8
LRG	84.03	32	eP	29 15.40	0.5
	1.2s	17.55nm		5.2mb	
Z	24s	0.20um		4.4MszX	
FRF	84.05	31	eP	29 15.30	0.3
	1.0s	11.60nm		5.1mb	
SRO	84.06	22	eP	29 18.10	3.1X
LMR	84.19	32	eP	29 16.00	0.3
	1.0s	10.40nm		5.0mb	
SIV	85.20	117	eP	29 31.00	9.9X
LSZ	145.08	43	iPKPd	36 22.00	-0.8
NVL	146.55	157	iPKPc	36 29.00	5.6X
	1.0s	17.00nm			

S.D. = 0.9 on 128 of 137 obs.

? MAY 09, 1993 22h 40m 28.68± 4.72s
36.295 N ±34.7km 29.891 E ±20.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 3.5 (ISK).

ELL	0.45	2	iPg	40 37.60	-0.3
			iSg	40 49.60	
BCK	1.29	25	iPn	40 52.40	-0.3
YER	1.54	303	ePn	40 56.00	-0.3
CIN	1.95	313	ePn	41 02.00	-0.1
			iSg	41 30.00	
KHL	2.05	352	ePn	41 04.50	0.9

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

• MAY 09, 1993 23h 14m 25.76± 1.22s
37.283 N ±14.3km 30.744 E ± 9.7km
DEPTH = 159.9 ± 15.1 km
TURKEY (366)
MD 4.3 (HLW).

BCK	0.22	325	iPg	14 47.90	0.4
			eSg	14 56.90	
ELL	0.86	232	iPn	14 51.10	0.3
KHL	1.42	317	iPn	14 55.00	-0.7
ALT	1.84	344	ePn	15 06.00	5.9X
YER	1.97	266	iPn	15 02.50	0.9
CIN	2.14	279	ePn	15 03.00	-0.5
			iSg	15 30.00	
PPCY	2.72	151	eP	15 10.00	-0.5
			eS	15 41.60	
CSS	3.12	137	eP	15 14.70	-0.9
			eS	15 50.00	
ATZ	5.80	139	eP	15 50.60	-0.1
			eS	16 51.80	
SHMJ	6.13	136	P	15 55.70	0.5

ZNT 6.15 144 eP 15 55.10 -0.3
eS 16 58.10
SALJ 6.65 141 P 16 03.00 0.8
DSI 6.87 145 eP 16 05.20 0.1
MASJ 6.90 142 P 16 06.00 0.5
KOT 7.39 173 ePn 16 11.00 -1.0
eSn 17 25.00
SAGI 7.76 154 eP 16 17.50 0.4
eS 17 38.70
S.D. = 0.7 on 15 of 16 obs.

% MAY 09, 1993 23h 30m 52.41± 0.68s
44.380 N ± 6.2km 7.325 E ± 8.1km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.9 (GEN).

STV 0.14 180 P 30 55.50 -0.2
S 30 57.19
ENR 0.17 156 P 30 56.14 -0.2
S 30 58.38
PZZ 0.20 308 P 30 57.37 0.4
S 31 00.26
ROB 0.40 102 P 31 00.90 0.3
S 31 06.80
BHB 0.46 355 P 31 01.45 -0.4
S 31 07.58
IMI 0.62 139 P 31 05.06 0.1
S 31 12.15
S.D. = 0.4 on 6 of 6 obs.

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* MAY 09, 1993 23h 31m 04.22± 2.49s
45.228 N ±21.7km 14.455 E ± 7.6km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)

RIY 0.13 337 iPgc 31 07.30 0.0
iSg 31 11.00
CEY 0.51 358 ePg 31 14.50 -0.1
eSg 31 23.00
VBY 0.63 64 e(Pg) 31 17.30 0.4
e 31 22.50
TRI 0.68 315 e(Pg) 31 18.40 0.6
e(Sg) 31 30.10
VOY 0.90 334 ePg 31 21.20 -0.2
eSg 31 36.40
PTJ 1.25 57 ePg 31 27.10 -0.4
eSg 31 43.00
RBL 1.36 333 P 31 30.30 1.0
eSn 31 48.10
FVI 1.80 320 P 31 34.10 -1.3
eSn 32 03.00
S.D. = 0.9 on 8 of 8 obs.

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* MAY 10, 1993 00h 16m 20.02± 0.78s
32.559 S ±11.5km 70.024 W ± 9.2km
DEPTH = 100.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)
MD 3.6 (SAN).

JACH 0.50 255 iP 16 36.29 0.2
iS 16 49.31
FCH 0.80 196 iP 16 39.68 0.7
iS 16 55.09
PEL 0.81 223 iP 16 38.82 0.1
iS 16 53.40
ROCH 0.93 243 iP 16 39.82 -0.4
iS 16 55.51
RTBS 1.02 29 ePd 16 41.90 1.0
S 16 58.30
MDZ 1.04 108 eP 16 43.50 2.2
iS 16 59.60
PCH 1.14 201 iP 16 43.45 1.1
iS 17 00.91
TACH 1.33 215 iP 16 44.43 -0.2
CHCH 1.47 201 iP 16 46.58 0.3
iS 17 07.73
LCCH 1.59 234 iP 16 47.10 -0.7
iS 17 07.75
LNV 1.81 219 iP 16 49.73 -0.9
iS 17 13.59
RFA 2.56 150 ePd 16 59.80 -0.9
S 17 29.70
TCA 4.78 77 iPd 17 28.50 -2.5
S 18 20.50
S.D. = 1.3 on 13 of 13 obs.

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* MAY 10, 1993 00h 17m 42.51± 1.19s
36.614 N ±18.7km 70.093 E ± 6.8km
DEPTH = 33.0km (normal)
4.5mb (2 obs.)
HINDU KUSH REGION, AFGHANISTAN (718)

QUE 6.93 203 eP 19 24.50 0.0
eS 20 37.00
MAIO 8.55 271 iPnd 19 47.00 0.0
eSn 21 16.00
GKN 14.98 121 P 21 13.20 -0.5
0.9s 31.00nm 4.6mb
DMN 15.55 121 P 21 21.40 0.2
KKN 15.56 120 P 21 21.80 0.5
0.6s 17.00nm 4.4mb
PKI 15.79 120 P 21 24.00 -0.3
GUN 15.91 119 P 21 26.00 0.1
S.D. = 0.4 on 7 of 7 obs.

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* MAY 10, 1993 01h 06m 00.51± 0.98s
18.896 S ± 7.7km 69.492 W ±17.3km
DEPTH = 135.4 ± 12.3 km
4.4mb (1 obs.)
NORTHERN CHILE (123)

CNCB 2.52 35 iPc 06 42.70 0.4
LPB 2.70 30 iPc 06 44.30 -0.2
1.0s 440.00nm
ZOBO 2.92 27 iPc 06 46.90 -0.6
ARE 3.08 321 eP 06 41.00 -8.3X
iS 07 19.40
CCH 3.53 65 P 06 56.00 0.8
ANT 4.86 190 eP 07 13.00 0.3
YJA 4.96 132 ePc 07 13.80 -0.7
SIV 8.54 72 P 08 14.40 11.8X
NNA 9.87 313 eP 09 12.00 51.7X
eS 10 19.50
PPD 17.32 103 (P) 10 03.00 7.5X
YKA 88.56 341 eP 18 38.20 -0.4
0.5s 1.80nm 4.4mb
WRA 134.88 212 PKP 25 06.20 0.5
0.6s 0.90nm
S.D. = 0.7 on 8 of 12 obs.

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* MAY 10, 1993 02h 01m 10.83± 0.51s
35.536 S ±15.9km 103.950 W ±12.3km
DEPTH = 10.0km (geophysicist)
4.7mb (3 obs.) 5.1Msz (2 obs.)
SOUTHERN PACIFIC OCEAN (692)
Mw 5.4 (HRV).
CENTROID, MOMENT TENSOR (HRV)
Doto Used: GDSN
L.P.B.: 37S, 65C
Centroid Location:
Origin Time 02:01:14.6 0.3
Lat 35.71S 0.03 Lon 103.80W 0.03
Dep 15.0 FIX Half-durotion 1.3
Moment Tensor; Scale 10**17 Nm
Mrr= 0.09 0.03 Mtt=-0.53 0.04
Mff= 0.44 0.04 Mrt= 0.00 0.00
Mrf= 0.00 0.00 Mtf=-1.53 0.04
Principal Axes:
T Val= 1.56 Plg= 0 Azm=234
N 0.09 90 180
P -1.66 0 144
Best Double Couple:Mo=1.6*10**17
NP1:Strike=279 Dip=90 Slip=-180
NP2: 9 90 0

CNCB 37.01 69 P 08 23.10 0.0
LPB 37 09 69 P 08 25.00 1.4
Z 22s 3.33um 5.1Msz
LR 18 53.00
ZOBO 37.23 68 P 08 26.00 1.0
1.7s 65.41nm 5.1mb
S 14 20.00
LR 18 18.00
CCH 38.09 72 P 08 33.00 1.1
PPD 47.54 88 eP 09 46.60 -1.9
VAO 50.63 92 eP 10 12.30 0.0
NVL 64.64 161 eP 11 50.00 -0.4
UYO 69.91 8 iPc 12 23.20 -0.6
MEO 70.14 5 iPc 12 24.10 -1.1
LCCM 81.31 354 eP 13 29.10 0.5
ARMA 83.34 237 eP 13 40.20 0.6
0.9s 6.00nm 4.8mb
ULM 85.71 5 eP 13 57.50 6.8X

WRA 101.95 235 Pdiff 15 07.60 1.0
1.1s 0.40nm 4.0mb
GEC2 133.19 53 PKP 20 29.20 1.0
1.1s 1.32nm
e 20 35.20
SAGI 145.02 87 ePKP 20 48.40 -1.7
MBH 145.05 88 ePKP 20 48.90 -1.4
CSS 145.31 78 ePKP 20 49.80 -0.7
OBN 146.66 42 iPKPd 20 52.00 0.0
1.2s 26.00nm
Z 20s 0.40um 5.2Msz
i 21 02.00
HRI 146.82 82 ePKP 20 53.80 0.7
BJI 148.16 290 ePKP 20 58.00 3.1X
1.4s 48.00nm
MAIO 166.56 82 ePKP 21 18.00 0.6
S.D. = 1.1 on 19 of 21 obs.

? MAY 10, 1993 02h 01m 24.21± 2.01s
3.862 S ±18.0km 145.477 E ±21.4km
DEPTH = 102.2 ± 17.0 km
4.2mb (5 obs.)
NEAR N COAST OF NEW GUINEA, PNG.(200)

MDG 1.41 168 iPc 01 49.70 -0.1
MNDI 2.91 218 eP 02 10.00 0.2
eS 02 37.00
PMG 5.76 163 eP 02 43.00 -5.7X
eS 03 33.00
CTA 16.15 177 iPd 05 07.00 0.5
0.8s 7.46nm 4.0mb
WB2 19.32 213 iPc 05 42.30 -1.8
0.5s 50.10nm 5.1mb
eS 10 48.60
ARMA 27 05 168 iPd 07 02.10 3.1X
0.8s 17.00nm 4.6mb
STK 28.11 187 eP 07 09.50 1.1
0.6s 2.70nm 4.1mb
GUN 65.44 303 P 12 00.00 1.0
YKA 97.99 28 eP 14 48.90 -0.8
0.8s 0.40nm 4.0mb
S.D. = 1.4 on 7 of 9 obs.

% MAY 10, 1993 02h 22m 52.65± 1.33s
39.250 N ± 9.3km 17.338 E ± 9.5km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

ROI 0.68 299 P 23 05.20 -0.9
TDS 0.87 298 P 23 08.90 -0.6
CZI 0.94 268 P 23 11.80 1.3
CSI 0.97 303 P 23 11.50 0.5
LCI 1.18 23 P 23 15.40 0.7
SOI 1.55 221 P 23 19.70 -0.5
BRT 1.63 356 P 23 20.60 -0.9
MGR 1.64 303 P 23 21.50 -0.1
SGO 2.04 311 P 23 27.70 0.4
S.D. = 0.9 on 9 of 9 obs.

& MAY 10, 1993 02h 48m 12.88s
61.650 N 148.143 W
DEPTH = 39.0km
SOUTHERN ALASKA (2)
<AEIC>. ML 2.5 (AEIC).

SML 0.18 330 iP 48 19.53 -0.5
iS 48 24.91
GHO 0.39 289 iP 48 21.67 -0.6
eS 48 28.45
SCM 0.43 64 iP 48 22.19 -0.6
eS 48 29.50
PLRM 0.48 263 iP 48 22.35 -0.9
eS 48 29.75
PMR 0.48 263 iPc 48 22.04 -1.2
eS 48 28.88
PMS 0.79 240 iP 48 27.11 -0.6
eS 48 37.60
PWA 0.83 271 eP 48 27.76 -0.4
PTE 0.90 209 eP 48 28.01 -1.1
eS 48 39.92
VLZ 1.02 120 eP 48 29.36 -1.4
eS 48 43.29
eS 48 43.83
KLU 1.08 97 iP 48 30.97 -0.8
eS 48 46.13
SUA 1.26 263 eP 48 34.51 0.1
eS 48 51.85

10d 02h

MPA	1.31	207	eP	48	34.43	-0.5
			eS	48	50.91	
TZL	1.35	72	eP	48	36.63	1.1
HIN	1.49	147	iP	48	37.42	-0.2
			eS	48	56.38	
HUR	1.50	333	eP	48	39.19	1.4
SDG	1.51	53	eP	48	38.27	0.4
SLKM	1.53	222	eP	48	38.27	0.1
			S	48	57.43	
CVA	1.61	133	eP	48	39.13	0.0
SKT	1.64	283	eP	48	39.49	-0.3
			eS	49	01.82	
SEW	1.68	203	eP	48	40.18	0.0
			eS	49	00.03	
RND	1.79	350	eP	48	43.57	1.6
PAX	1.82	42	eP	48	44.18	1.8
SPU	1.94	258	eP	48	44.83	0.7
			eS	49	09.21	
CPAM	1.96	260	eP	48	45.65	1.2
CRP	1.96	260	eP	48	45.27	0.7
CKN	1.99	259	eP	48	46.13	1.4
			eS	49	10.34	
CKT	2.00	259	eP	48	46.15	1.1
			eS	49	10.97	
CP2	2.01	261	eP	48	46.25	1.1
TRF	2.06	332	eP	48	47.89	1.9
CKL	2.07	259	eP	48	46.49	0.5
BGL	2.08	261	eP	48	46.26	0.2
GLB	2.09	94	eP	48	46.30	0.1
			eS	49	12.68	
RAGM	2.11	125	eP	48	47.16	0.6
MCK	2.12	350	eP	48	48.88	2.2
DFR	2.45	246	eP	48	51.39	0.0
REF	2.50	244	eP	48	51.47	-0.8
			eS	49	22.61	
KAIM	2.52	132	eP	48	50.82	-1.4
RSO	2.54	244	eP	48	53.18	0.4
RDW	2.55	245	eP	48	52.85	-0.1
NCT	2.57	247	eP	48	53.14	0.0
CROM	2.58	108	eP	48	53.91	0.5
CNPM	2.62	217	eP	48	53.54	-0.3
TGL	2.72	107	eP	48	55.34	0.0
BALM	2.86	100	eP	48	56.61	-0.6
FBA	3.27	3	eP	49	03.55	0.7
CTGM	3.36	99	eP	49	02.73	-1.6
YAH	3.37	110	eP	49	03.75	-0.9
IMA	5.06	334	eP	49	28.24	-0.2

48 obs. associated

? MAY 10, 1993 03h 13m 19.19± 0.93s
39.252 N ± 8.1km 29.378 E ±10.8km
DEPTH = 5.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

ALT	0.60	109	ePg	13	31.20	-0.1
			eSg	13	40.20	
KHL	0.93	173	iPg	13	37.60	0.1
KCT	1.27	322	iPn	13	43.10	-0.1
YLV	1.31	360	ePn	13	44.10	0.1

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

& MAY 10, 1993 03h 47m 00.74s
59.194 N 153.726 W
DEPTH = 103.3km
SOUTHERN ALASKA (2)
<AEIC>.

AUI	0.21	47	eP	47	14.70	0.7
			eS	47	25.97	
AUW	0.22	36	eP	47	14.98	0.9
AUH	0.22	40	P	47	14.60	0.4
AUL	0.24	38	eP	47	15.07	0.9
AUE	0.25	48	eP	47	15.04	0.9
CDD	0.27	171	iP	47	14.93	0.6
			eS	47	26.20	
MCNL	0.31	269	iP	47	15.27	-0.7
			eS	47	26.23	
OPT	0.53	29	iP	47	16.43	-0.9
			eS	47	29.05	
PDB	0.64	338	eP	47	17.20	-1.0
			eS	47	30.07	
SYI	0.91	130	eP	47	19.57	-1.1
INW	0.93	19	eP	47	19.99	-1.1
			S	47	34.39	
INE	0.93	21	eP	47	20.05	-1.1
			eS	47	34.98	
CNPM	1.32	74	eP	47	23.62	-1.7
			eS	47	41.69	
RSO	1.36	21	eP	47	24.96	-1.1
RDW	1.37	19	eP	47	25.92	-0.3
REF	1.40	21	eP	47	24.90	-1.6
			eS	47	44.31	
NCT	1.43	16	eP	47	25.73	-1.1
DFR	1.50	20	eP	47	26.53	-1.1
CKL	2.13	18	eP	47	34.39	-1.3
BGL	2.18	17	eP	47	35.29	-1.1
SLKM	2.21	52	eP	47	35.39	-1.3

21 obs. associated

• MAY 10, 1993 04h 03m 41.26± 0.31s
53.024 S ±14.1km 118.037 W ± 8.8km
DEPTH = 10.0km (geophysicist)
5.1mb (11 obs.) 5.6Msz (9 obs.)
SOUTHERN EAST PACIFIC RISE (684)
Mw 5.8 (HRV).
CENTROID, MOMENT TENSOR (HRV)
Doto Used: GDSN
L.P.B.: 42S, 91C
Centroid Locotion:
Origin Time 04:03:51.4 0.1
Lot 53.38S 0.02 Lon 117.96W 0.03
Dep 15.0 FIX Half-durotion 2.1
Moment Tensor; Scole 10**17 Nm
Mrr=-0.60 0.09 Mtt=-3.34 0.10
Mff= 3.94 0.09 Mrt= 0.34 0.27
Mrf=-1.97 0.34 Mtf=-4.21 0.11
Principol Axes:
T Vol= 6.40 Plg=15 Azm= 66
N -1.07 73 222
P -5.33 7 334
Best Double Couple:Mo=5.9*10**17
NP1:Strike=109 Dip=74 Slip= 174
NP2: 201 84 16

SPA	37.16	180	iPc	10	55.60	1 8
	1.0s		15.00nm			4.7mb
	Z 24s		4.94um			5.2MszX
			i	21	40.30	
MDZ	40.29	80	eP	11	21.30	1.3
RTBS	40.80	78	ePd	11	25.80	1.7
RTCB	41 31	79	iPd	11	29.00	0.5
CFA	41.56	79	ePc	11	30.00	-0.4
RTLL	41.62	79	iPc	11	31.00	0.1
TCA	43.92	82	ePc	11	49.00	-0.8
FSA	46.94	76	ePd	12	14.20	0.5
SNA	48.63	156	iPc	12	26.90	0.5
	0.7s		40.00nm			5.6mb
NVL	51.42	161	iPd	12	47.00	-0.8
	1.5s		46.00nm			5.2mb
	Z 18s		10.00um			5.9Msz
	N 18s		5.00um			
	E 18s		5.50um			
			e	13	36.00	
			(S)	20	19.00	
CNCB	53.09	67	iPc	13	01.00	-0.6
LPB	53.25	66	P	13	03.00	0.4
	1.9s		315.79nm			5.9mb
			PS	20	43.00	
			LR	29	00.00	
ZOBO	53.45	66	iPc	13	03.90	-0.4
	1.8s		183.50nm			5.8mb
	Z 20s		4.29um			5.5Msz
			LR	29	10.00	
SIV	57.66	73	Pc	13	46.00	11.9X
PPD	58.76	86	eP	13	40.50	-1.2
VAO	60.65	90	eP	13	53.90	-0.8
			e	14	00.70	
RIFB	62.54	87	ePc	14	06.40	-1.1
PSO	63.81	47	eP	14	17.50	1.2
CNB	64.14	245	eP	14	19.00	1.1
	0.5s		12.00nm			5.3mb
CAN	64.33	245	eP	14	22.70	3.6X
TOO	64.55	241	eP	14	22.60	2.1
BWA	65.32	245	eP	14	23.50	-2.0
ARMA	66.52	250	eP	14	40.00	6.7X
	1.3s		23.00nm			5.2mb
BRS	68.14	253	iPd	14	50.00	6.5X
BOG	68.31	48	e(P)	14	46.00	1.0
STK	70.95	242	eP	15	00.50	-0.1
	0.6s		2.50nm			4.5mb
CTA	77 55	253	eP	15	40.00	1.2
ASPA	81.58	242	eP	15	58.60	-2.0
	0.8s		6.20nm			4.7mb
	Z 22s		5.40um			5.9Msz
WB2	84.36	244	iPc	16	14.10	-0.7
	1.1s		4.90nm			4.6mb
WRA	84.37	244	P	16	14.90	0.0
	0.8s		7.50nm			5.0mb
MEO	89.07	16	iPc	16	38.50	1.2
YKA	115.20	2	ePKP	22	23.60	0.6
	0.7s		0.50nm			
MBC	128.99	360	ePKP	22	49.50	0.4
	0.8s		5.00nm			
BJI	141.43	273	ePKP	23	17.00	3.6X
	Z 24s		0.70um			5.3MszX
			e	29	40.00	
LOR	143.22	75	ePKP	23	19.80	3.4X
	1.2s		8.35nm			
	Z 23s		1.95um			5.8MszX
LPL	143.99	79	ePKP	23	15.20	-2.8X
	1.4s		20.50nm			
LPG	143.99	79	ePKP	23	15.70	-2.4X
	1.7s		41.15nm			
YAK	144.15	312	ePKP	23	16.00	-1.4
	1.0s		40.00nm			
	Z 18s		0.70um			5.5Msz
	N 20s		0.50um			
	E 21s		0.60um			
EMS	144.40	79	ePKPd	23	17.00	-1.6
DIX	144.69	79	ePKPd	23	18.30	-0.9
MAO	144.91	87	PKP	23	18.30	-1.1
ViTF	144.94	75	PKP	23	16.63	-2.6X
LOMF	145.00	77	PKP	23	16.14	-3.3X
MMK	145.00	79	ePKPd	23	19.40	-0.3
SNF	145.04	70	PKP	23	18.50	-0.8
HAU	145.04	75	ePKP	23	17.70	-1.8
	1.0s		25.60nm			
SOI	145.20	97	PKP	23	18.00	-1.9
BOB	145.20	82	PKP	23	19.40	-0.5
UCC	145.21	70	PKP+	23	19.00	-0.6
BSF	145.22	76	ePKP	23	18.40	-1.5
	1.3s		62.10nm			
VAI	145.39	80	PKP	23	18.70	-1.3
MOF	145.43	76	PKP	23	17.09	-3.1X
BBS	145.46	77	PKP	23	17.33	-2.9X
BDI	145.51	84	PKP	23	18.70	-1.7
TMA	145.57	80	ePKPd	23	20.20	-0.4
ECH	145.62	75	PKP	23	18.21	-2.2X
WLF	145.72	73	iPKPc	23	18.70	-1.8
	2.3s		68.00nm			
			id	23	27.98	
FIR	145.74	85	ePKP	23	15.50	-5.2X
CDF	145.78	75	PKP	23	18.52	-2.3X
MNS	145.81	88	PKP	23	20.50	-0.5
WLS	145.83	75	PKP	23	18.00	-2.8X
LIBD	145.85	76	PKP	23	18.46	-2.3X
FEL	145.96	76	PKP	23	18.75	-2.4X
CZI	145.98	95	PKP	23	23.70	2.5X
ZLA	145.98	77	ePKPd	23	22.20	1.1
PGD	146.08	85	PKP	23	27.20	5.7X
SDI	146.10	90	PKP	23	22.00	0.5
SLE	146.18	77	ePKPd	23	22.50	1.1
MGR	146.20	93	PKP	23	22.70	1.1
LZH	146.27	257	ePKP	23	23.50	1.4
	1.0s		50.00nm			
	Z 40s		1.22um			5.4MszX
	E 20s		0.96um			
			pP	23	28.50	
			PP	26	45.00	
SGO	146.31	93	PKP	23	23.70	2.0
TDS	146.38	95	PKP	23	23.80	1.9
CSI	146.42	95	PKP	23	24.20	2.2X
ROI	146.46	95	PKP	23	24.90	2.8X
OSS	146.62	80	ePKPd	23	23.70	1.4
CTI	147.20	82	PKP	23	25.40	2.2
MOTA	147.52	79	iPKPd	23	26.00	2.3X
	1.6s		40.90nm			
			i	23	37.80	
SQTA	147.52	79	iPKPd	23	26.00	2.3X
	1.6s		40.00nm			
			i	23	32.80	
WATA	147.80	79	iPKPd	23	27.00	2.9X
WTTA	147.80	80	iPKPd	23	26.90	2.7X
	2.0s		91.10nm			
			i	23	33.90	
			i	23	44.30	
FVI	148.15	81	PKP	23	27.70	3.2X
TRI	148.29	84	ePKP	23	34.50	9.8X
VOY	148.53	83	ePKP	23	30.40	5.1X
RBL	148.54	82	PKP	23	28.70	3.4X

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GRF    148.68   75 iPKPc 23 29.10    3.8X
     Z  22s       0.70um          5 4Msz
                    e     23 36.70
KBA    148.72   81 iPKPd 23 28.70    3.0X
        2.0s     36.10nm
                    i     23 35.30
                    i     23 49.30
PKI    149.19  224 PKP   23 30.60    3.4X
        1.2s     89.00nm
GUN    149.29  225 PKP   23 32.00    4.6X
MOX    149.31   74 iPKPd 23 31 30    5.0X
        1.6s     59.00nm
     Z  22s       1.40um          5.7Msz
DMN    149.35  223 PKP   23 31 80    4.4X
KKN    149.44  224 PKP   23 32 00    4.6X
PTJ    149.70   85 ePKP  23 31.50    4.4X
GEC2   149.76   78 e(PKP)23 35.60    8.5X
        0.7s     3.10nm
KHC    149.82   78 PKP   23 32.00    4.9X
        1.4s     25.70nm
     Z  20s       1.40um          5.8Msz
     N  20s       0.80um
     E  20s       0.80um
                    e     23 38.50
                    e     24 10.00
                    e     27 06.50
GKN    149.89  223 PKP   23 32.60    4.6X
RMN    149.95  128 ePKP  23 33.00    5.0X
OHR    149.95   97 ePKP  23 33.00    5.4X
        1.1s     98.00nm
                    i     23 39.70
CLL    150.38   73 iPKPd 23 33.20    5.4X
        2.1s     42.00nm
     Z  21s       1.00um          5.6Msz
                    i     23 39.70
PRU    150.75   77 PkPd  23 34.50    6.1X
        1.8s     40.50nm
     Z  20s       0.80um          5 5Msz
     N  20s       0.50um
     E  20s       0.70um
                    e     23 40.70
                    e     23 56.00
BRG    150.76   75 ePkP  23 34.30    5.9X
        1.3s     34.00nm
                    i     23 40.80
                    e     27 12.00
SKO    150.85   96 iPKP  23 34.00    5.2X
        1.1s     37.00nm
                    i     23 41.00
VAY    151.14   98 ePKP  23 26.00   -3.2X
        1.3s     90.00nm
                    i     23 34.60
                    i     23 42.30
DSI    151.20  128 ePKP  23 35.30    5.7X
ZST    151.49   81 ePKP  23 34.20    4.6X
                    e     27 20.90
HMDT   151.83  127 ePKP  23 36.80    6.2X
NB2    151.91   53 PKP   23 36.50    6.6X
        0.7s     1.70nm
SRO    152.04   83 ePKP  23 43.00   12.6X
KSP    152.12   76 ePKP  23 37.70    7.3X
APO    153.18   55 ePKP  23 38.00    6.4X
        0.4s     1.80nm
SPC    153.80   81 ePKP  23 41.70    8.6X
MAIO   163.19  173 ePKP  23 45.00    0 8
OBN    164.99   72 ePKPd 23 51.50    6.3X
        2.0s     80.00nm
     Z  22s       1.60um
     N  24s       0.50um
     E  24s       1.10um
                    e     24 26.00
                    e     24 49.00
                    (SKSP)39 00.00
                    ePPS  42 00.00
                    eSS   49 00.00
                    LR    23 30.00
     S.D. = 1.2  on  55 of 112 obs.
-------------------------------------
?  MAY  10, 1993  04h 09m 50.37± 0.94s
   45.507 N ±14.0km   26.681 E ±14.8km
   DEPTH = 130.0km  (geophysicist)
 ROMANIA                          (358)

VRI      0.36    5 iPc    10 08.60    0.3
MLR      0.52  269 iPc    10 10.00    0.0
                   e      23 36.50
CFR      1.09  107 iPd    10 14.00   -0.4
PVL      2.49  203 iPd    10 32.00    1.1
VTS      3.84  222 iP     10 48.00   -1.0
RZN      4.08  201 iP     10 52.00   -0.1
      S.D. = 0.9   on   6 of   6 obs.
-------------------------------------
%  MAY  10, 1993  04h 26m 36.88± 0.59s
   38.912 S ± 4.5km  173.747 E ± 5.1km
   DEPTH =  10.0km  (geophysicist)
 OFF W. COAST OF N. ISLAND, N.Z. (158)
      ML 3.9 (WEL).

NRZ      0.45  161 Pc     26 46.40    0.4
                   eS     26 51.10
MOZ      0.92   64 Pd     26 54.90    0.4
                   eS     27 06.90
BSZ      1.28  134 P      26 59.70   -0.8
CNZ      1.43  102 P      27 02.10   -0.9
NGZ      1.47  101 P      27 02.80   -0.7
WLZ      1.79   55 P      27 08.50    0.5
                   eS     27 29.80
DIW      1.89  176 P      27 09.30   -0.2
ORZ      2.13  206 P      27 12.70   -0.3
                   S      27 38.60
WHH      2.14   90 eP     27 13.60    0.3
KIW      2.15  156 eP     27 13.30    0.1
MNG      2.17  142 eP     27 14.20    0.7
                   eS     27 39.70
WAHZ     2.17  112 eP     27 12.90   -0.7
TCW      2.33  170 eP     27 16.20    0.3
CAW      2.42  156 eP     27 17.30    0.2
MRW      2.43  163 eP     27 17.20   -0.1
                   eS     27 46.10
MTW      2.62  150 eP     27 21.10    1.2
KUZ      2.67   36 eP     27 20.60    0.0
                   eS     27 51.10
THZ      2.92  192 eP     27 24.50    0.2
DSZ      3.20  207 P      27 28.00   -0.2
KHZ      3.51  182 eP     27 32.60    0.1
LTZ      4.03  196 P      27 40.00    0.1
WVZ      4.74  208 eP     27 49.40   -0.7
      S.D. = 0.6   on  22 of  22 obs.
-------------------------------------
%  MAY  10, 1993  04h 51m 34.98± 1.33s
   30.402 S ±13 8km   68.671 W ±10.8km
   DEPTH =  33.0km  (normal)
 SAN JUAN PROVINCE, ARGENTINA     (137)

RTRS     0.72  289 iPc    51 48.50   -0.2
                   S      52 18.00
RTLL     0.94  169 iPc    51 55.00    3.1X
                   S      52 06.00
RTCB     1.09  186 iPd    51 55.20    1.2
                   S      52 06.50
CFA      1.26  163 iPc    51 55.00   -1.4
                   (S)    52 06.00
RTBS     1.42  208 ePd    51 58.70    0.0
                   S      52 12.40
RTCV     1.46  176 iPd    51 55.30   -4.0X
                   S      52 06.50
TCA      3.63  106 iPc    52 30.70    0.4
                   S      53 10.30
      S.D. = 1.3   on   5 of   7 obs.
-------------------------------------
*  MAY  10, 1993  05h 18m 47.42± 1.64s
   39.533 N ±12.5km   23.454 E ±12.6km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                       (365)

PAIG     0.43   24 ePg     18 55.72   -0.5
                   eSg    19 02.28
OUR      0.90   27 ePg     19 04.62    0.0
LIT      0.93  308 ePg     19 04.80   -0.5
                   eSg    19 18.62
AGG      1.01  240 ePg     19 06.56    0.0
                   eSg    19 21.24
SOH      1.29  357 ePb     19 11.32    0.0
KNT      1.68  346 ePb     19 17.90    0.9
                   eSb    19 41.22
      S.D. = 0.6   on   6 of   6 obs.
-------------------------------------
?  MAY  10, 1993  05h 46m 23.72± 0.63s
   53.067 S ±21.3km  117.607 W ±18.4km
   DEPTH =  10.0km  (geophysicist)
   4.1mb (  1 obs.)
 SOUTHERN EAST PACIFIC RISE       (684)

NVL     51.30  161 eP     55 30.00    0.7
LPB      53.03   66 P      55 43.00   -0.5
ZOBO     53.23   66 P      55 46.00    0.9
                   LR     12 08.00
SIV      57.43   72 (P)    56 32.00   17.1X
PPD      58.50   85 (P)    56 22.00   -0.3
WRA      84.58  244 P      58 57.80   -0.6
         0.9s     1.20nm          4.1mb
MEO      89.04   16 iPd    59 20.90    1.2
MBC     129.04  359 ePKP   05 31.00   -0.6
         1.0s     3.00nm
LPL     143.74   79 ePKP   06 04.10    4.0X
         1.0s     3.80nm
HAU     144.80   75 ePKP   06 00.30   -1.2
         1.1s     14.40nm
BSF     144.98   76 ePKP   06 00.90   -1.0
         1.2s     17.55nm
CDF     145.54   75 ePKP   06 02.80   -0.1
         1.2s     12.50nm
LZH     146.51  256 iPKPc  06 06.50    1.6
         1.5s     40.00nm
                    pP     06 10.50
GRF     148.44   75 ePKP   06 12.40    5.0X
MOX     149.08   74 ePKP   06 13.70    5.4X
         1.1s     13.00nm
PKI     149.34  223 PKP    06 12.80    2.9X
GUN     149.44  224 PKP    06 14.20    4.1X
DMN     149.49  222 PKP    06 12.80    2.8X
GEC2    149.52   78 PKP    06 14.00    4.8X
         1.4s     10.86nm
                    e      06 19.00
                    e      06 22.40
                    e      06 27.60
KHC     149.57   77 ePKP   06 13.50    4.3X
                    e      06 46.00
KKN     149.58  223 PKP    06 13.20    3.1X
GKN     150 03  222 PKP    06 13.60    2.9X
CLL     150.15   73 iPKPc  06 15.90    6.0X
         1.3s     15.00nm
BRG     150.52   74 ePKP   06 16.60    6.1X
         1.3s     14.00nm
                    e      06 20.80
NB2     151.73   53 PKP    06 18.60    6.5X
         1.0s     3.10nm
      S.D. = 1.1   on  11 of  25 obs.
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&  MAY  10, 1993  06h 48m 47.04s
   40.416 N          124.524 W
   DEPTH =  26.7km
 NEAR COAST OF NORTHERN CALIF.    ( 35)
      <GM-P>. MD 3.3 (GM). ML 3.6
      (BRK).

KMPM     0.31   90 iPc    48 54.17   -0.3
KSMM     0.35  131 P      48 54.61   -0.5
EKR      0.40   46 iPd    48 55.35   -0.4
                   eS     49 01.48
FOX      0.42   75 iPc    48 55.94   -0.1
KCRM     0.54   89 P      48 57.50   -0.5
FHC      0.56   47 iPc    48 57.62   -0.7
ARC      0.57   36 iPd    48 57.34   -1.1
                   eS     49 05.00
KHMM     0.76   53 P      49 00.64   -1.0
KBSM     0.87  125 P      49 02.27   -1.2
KCPM     1.03  135 P      49 04.23   -1.6
KBNM     1.15  117 P      49 06.73   -0.8
KFPM     1.15  132 P      49 05.84   -1.6
KOMM     1.18   43 P      49 06.53   -1.5
GBDM     1.35  136 P      49 08.42   -1.9
LGPM     1.38   68 iPc    49 09.28   -1.5
                   S      49 25.44
KSXM     1.50   19 P      49 10.60   -1.9
GROM     1.51  109 P      49 11.63   -1.0
WDC      1.52   83 eP     49 09.47   -3.3
GCWM     1.70  139 P      49 13.35   -2.1
LDBM     2.09   89 P      49 19.53   -1.6
LHEM     2.12   54 P      49 21.14   -0.6
LBFM     2.20   64 ePc    49 21.77   -1.0
MIN      2.23   91 ePc    49 20.95   -2.2
                   eS     49 46.74
LMEM     2.26   86 eP     49 22.28   -1.2
LPDM     2.28   69 P      49 22.77   -1.0
LCFM     2.29   87 P      49 22.76   -1.3
ORV      2.48  109 iPc    49 23.99   -2.5
LHKM     2.48   89 P      49 25.81   -0.9
NOLM     2.73  150 P      49 27.54   -2.4
MGA      3.20  149 P      49 33.95   -2.8
ARN      3.85  142 eP     49 43.66   -2.3
```

10d 06h

MSU 9.74 97 (P) 51 07.62 -1.1
YKA 22.90 12 eP 53 54.10 4.7
0.7s 0.20nm 2.7mb
33 obs. associated

% MAY 10, 1993 07h 09m 36.22± 0.61s
40.386 N ± 4.9km 23.299 E ± 5.4km
DEPTH = 10.0km (geophysicist)
GREECE (364)

THE	0.35	314	ePg	09 43.30	-0.2
			eSg	09 48.48	
SOH	0.44	6	ePg	09 45.00	-0.2
			eSg	09 51.30	
OUR	0.52	95	ePg	09 46.90	0.1
			eSg	09 54.40	
PAIG	0.54	147	ePg	09 47.10	-0.1
			eSg	09 55.18	
LIT	0.68	246	ePg	09 49.84	0.1
SRS	0.76	17	ePg	09 51.20	0.1
			eSg	10 02.16	
KNT	0.83	339	ePg	09 52.56	0.2
			eSg	10 04.34	

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

% MAY 10, 1993 08h 15m 11.94± 1.04s
39.106 N ± 7.7km 27.664 E ±12.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

IZM	0.77	204	iPg	15 27.00	-0.1
			iSg	15 39.50	
EDC	1.25	7	ePn	15 35.00	-0.1
			iSg	16 37.00	
EZN	1.26	305	iPn	15 35.50	0.1
KCT	1.26	25	ePn	15 35.80	0.4
BNT	1 26	9	ePn	15 35.00	-0.4

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

% MAY 10, 1993 08h 16m 24.42± 0.85s
40.200 N ± 8.6km 27.465 E ± 5.4km
DEPTH = 5.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

EDC	0.34	64	iPg	16 32.00	0.8
BNT	0.38	66	iPg	16 32.00	-0.1
			eSg	16 38.00	
MFT	0.60	347	iPg	16 36.50	0.0
			eSg	16 43.50	
KCT	0.68	86	iPg	16 37.50	-0.6
			eSg	16 48.00	
EZN	0.95	247	iPg	16 43.00	0.0
			iSg	16 55.00	
CTT	1.20	37	iPn	16 46.70	-0.5
YLV	1.50	75	ePn	16 52.50	0.4

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

? MAY 10, 1993 08h 23m 38.48± 1.18s
39.085 N ± 8.5km 27.704 E ±13.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

IZM	0.77	207	iPg	23 53.50	0.0
			iSg	24 05.50	
EDC	1.27	6	ePn	24 02.00	0.0
KCT	1.27	23	ePn	24 02.00	0.0
EZN	1.30	305	iPn	24 02.50	0.0

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

MAY 10, 1993 09h 15m 08.60± 0.73s
40.347 N ± 5.2km 76.018 W ± 6.4km
DEPTH = 5.0km (geophysicist)
PENNSYLVANIA (473)
mbLg 2.8 (GS). One person in the Reading area lost his balance because of the earthquake, fell off his bicycle and was injured. Felt (IV) at Reading and (III) at Hamburg and Shillington. Also felt at West Reading, Whitfield and Wyomissing. This is believed to be one of the smallest earthquakes in the United States for which confirmed casualty reports have been received.

MVL	0.43	216	P	15 17.50	0.3
			S	15 22.50	
BWD	0.64	148	iPc	15 21.70	0.2
NED	0.68	160	iPc	15 22.00	-0.3
BVD	0.70	145	iPc	15 22.50	0.0
			iS	15 31.89	
GPD	1.36	60	eP	15 33.74	-0.4
			eS	15 52.03	
TBR	1.58	59	eP	15 37.14	-0.2
			eS	15 58.66	
PAL	1.73	67	eP	15 39.81	0.3
			eS	16 02.50	
CRNY	2.11	62	eP	15 45.30	0.4
			eS	16 12.34	
CVL	3.03	220	eP	15 57.90	-0.2
			eS	16 33.46	
BLA	4.65	229	(P)	16 29.97	8.8X
			eS	17 25.96	
NAV	4.80	232	(P)	16 30.26	6.9X
			eS	17 30.93	
CEH	5.07	210	eP	16 25.39	-1.6X
			eS	17 22.05	
BNH	5.51	38	(P)	16 41.32	8.0X
EEO	6.67	342	eP	16 52.50	2.8X

S.D. = 0.3 on 9 of 14 obs.

% MAY 10, 1993 09h 19m 01.60± 1.47s
31.065 S ±11.0km 68.369 W ±11.9km
DEPTH = 108.3 ± 17.3 km
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.28	198	iPc	19 17.00	-0 6
			(S)	19 29.00	
CFA	0.55	168	iPc	19 19.00	0.1
			S	19 32.50	
RTCB	0.56	221	ePd	19 19.00	0.0
			S	19 30.50	
RTBS	1.10	237	ePc	19 24.80	0.8
			S	19 40.80	
MRA	2.63	121	ePd	19 43.80	0.5
			S	20 09.00	
TCA	3.25	96	iPc	19 52.00	0.3
			S	20 21.00	
CYA	3.44	41	ePd	19 54.00	-0.3
			S	20 33.00	
RFA	3.70	181	ePc	19 57.10	-0.7
			S	20 39.00	

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

MAY 10, 1993 09h 27m 24.20± 1.10s
39.345 N ± 9.5km 23.806 E ± 7.3km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

PAIG	0.59	351	ePg	27 36.40	0.3
			eSg	27 45.02	
OUR	1.00	8	iPg	27 43.10	0.0
			eSg	27 56.64	
AGG	1.19	255	iPb	27 46.44	0.0
			eSb	28 02.00	
LIT	1.26	307	ePb	27 47.80	0.1
			eSb	28 04.74	
SOH	1.52	347	ePb	27 50.98	-0.4
EZN	2 01	75	ePn	27 58.50	0.0
VAY	2.19	335	ePn	28 08.30	7.2X
OHR	2.90	308	ePn	28 34.00	22.7X

S.D. = 0.3 on 6 of 8 obs.

% MAY 10, 1993 09h 49m 01.99± 1.00s
39.115 N ± 7.5km 27.625 E ±12.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

IZM	0.77	202	iPg	49 17.00	0.0
			iSg	49 29.50	
EZN	1.23	306	ePn	49 25.00	0.1
EDC	1.24	8	ePn	49 25.00	-0.1
BNT	1.26	10	ePn	49 25.00	-0.4
KCT	1.27	26	iPn	49 25.90	0.4

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

MAY 10, 1993 10h 20m 38.58± 0.33s
36.579 N ± 6 2km 138.495 E ± 7.4km
DEPTH = 172.6 ± 3.4 km
4.3mb (18 obs.)
EASTERN HONSHU, JAPAN (227)

MAT	0.23	261	iPc	21 01.70	-0.2
			iS	21 18.40	
MTMJ	0.56	271	iPd	21 03.20	0.1
CHJJ	0.67	143	iP+	21 03.50	-0.1
			S	21 21.60	
NIIJ	0.77	31	iPd	21 03.60	-0.6
IIDJ	1.19	204	iP+	21 08.00	0.5
			S	21 30.10	
KAKJ	1.40	105	iP+	21 08.30	-1.0
			S	21 30.10	
YAMJ	2.01	37	iPd	21 15.70	0.1
			S	21 46.30	
TSRJ	2.29	244	iP+	21 19.90	1.2
			iS	21 50.90	
WKYJ	3.34	226	iP+	21 32.20	0.5
OFUJ	3.54	44	P	21 33.20	-1.0
			eS	22 14.20	
AOMJ	4.24	20	P	21 44.20	1.1
YONJ	4.32	253	P	21 45.20	1.0
			S	22 35.70	
TKSJ	4.47	236	P	21 46.40	0.3
MRRJ	6.17	18	P	22 07.20	-1.2
			eS	23 18.20	
HOOJ	6.88	31	eP	22 14.70	-3.2X
			eS	23 26.10	
KUSJ	8.07	34	eP	22 28.80	-5.0X
			eS	23 55.60	
ASAJ	8.17	22	eP	22 30.60	-4.4X
YAK	26.05	351	eP	25 56.30	-0.9
	1.6s		47.00nm		4.9mb
SVW	47.28	37	eP	28 57.09	1.1
	0.6s		6.90nm		4.4mb
IMA	48.27	30	eP	29 04.09	0.5
	0.9s		4.58nm		4.1mb
PMR	50.38	36	eP	29 19.00	-0.6
	0.8s		12.41nm		4.6mb
FBA	50.73	32	eP	29 22.27	0.1
	0.5s		2.54nm		4.1mb
BALM	53.70	36	ePd	29 44.40	-0.1
WB2	56.35	185	iPc	30 01.90	-1.9
	0.6s		12.00nm		4.9mb
WRA	56.35	185	P	30 01.20	-2.6
	0.7s		5.30nm		4.5mb
MBC	57.62	16	eP	30 11.50	-0.6
	0.7s		2.00nm		4.1mb
MBL	60.07	200	eP	30 29.00	-0.5
ASPA	60.08	185	eP	30 29.00	-0.5
	0.5s		5.90nm		4.7mb
WARB	63.42	192	eP	30 51.40	-0.4
BRS	65.03	166	iPd	31 03.50	1.3
YKA	65.36	29	eP	31 02.50	-1.4
	0.9s		1.80nm		3.9mb
KAF	67.62	332	eP	31 16.80	-1.4
	0.4s		2.60nm		4.4mb
NUR	69.23	331	eP	31 27.00	-1.0
	0.3s		3.70nm		4.6mb
HFS	73.52	335	eP	31 52.30	-1.2
	0.4s		1.50nm		4.1mb
Z	14s		0.03um		3.7MszX
			LR	56 11.00	
NB2	73.68	336	P	31 53.90	-0.7
	0.8s		5.50nm		4.3mb
BGMT	76.68	43	ePc	32 13.10	1.0
FRB	77.73	12	eP	32 17.00	-0.1
	0.6s		3.00nm		4.2mb
TNP	78.01	51	eP	32 21.10	1.6
	0.7s		1.56nm		3.8mb
BW06	79.63	44	eP	32 28.95	0.7
	0.8s		3.81nm		4.2mb
CLL	80.30	329	iPd	32 31.40	0.2
SRU	81.46	47	eP	32 39.06	1.3
GEC2	81.84	327	P	32 39.70	0.3
	0.6s		1.01nm		3.7mb
PV09	82.68	47	eP	32 45.99	1.7
PV10	82.82	47	eP	32 46.75	1.8
PV08	82.91	47	eP	32 46.97	1.4
ZOBO	148.91	56	ePKP	40 09.00	4.9X
LPB	149.12	57	PKP	40 09.00	4.8X
CNCB	149.39	57	PKP	40 12.00	7.2X

S.D. = 1.1 on 42 of 48 obs.

% MAY 10, 1993 10h 32m 44.15± 0.71s
40.010 N ± 5.4km 23.633 E ± 7.5km
DEPTH = 10.0km (geophysicist)

GREECE (364)

PAIG	0.09	156	ePg	32	46.70	0.0
			eSg	32	48.38	
OUR	0.42	39	iPg	32	52.78	0.1
			iSg	32	59.32	
THE	0.80	321	ePg	32	59.26	-0.5
SOH	0.84	345	ePg	33	00.02	-0.3
KNT	1.28	334	ePb	33	07.92	0.0
GRG	1.33	316	ePb	33	09.50	0.8
AGG	1.41	226	ePb	33	09.74	-0.1

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

? MAY 10, 1993 10h 34m 51.78± 6.83s
18.840 N ±60.6km 145.124 E ±122.km
DEPTH = 114.3 ± 47.8 km
4.1mb (4 obs.)

MARIANA ISLANDS (216)

GUMO	5.23	183	eP	36	09.00	0.0
	0.3s	33.90nm			5.1mb	
			eS	37	04.60	
PJG	5.23	183	eP	36	09.20	0.2
GUA	5.28	182	eP	36	09.30	-0.3
			eS	37	04.20	
WB2	39.96	196	eP	42	15.40	-1.3
	0.3s	2.40nm			4.5mb	
WRA	39.97	196	P	42	18.00	1.3
	0.9s	0.90nm			3.6mb	
YKA	78.12	28	eP	46	39.30	0.0
	0.6s	0.90nm			3.7mb	
BGMT	85.50	44	eP	47	18.50	0.1
			e	47	54.50	
ZOBO	148.22	91	PKP	54	23.00	-0.9
LPB	148.29	91	(PKP)	54	20.00	-3.8X
CNCB	148.44	92	PKP	54	25.00	0.8

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

& MAY 10, 1993 10h 35m 30.54s
63.009 N 150.486 W
DEPTH = 103.0km
CENTRAL ALASKA (1)
<AEIC>.

HUR	0.39	94	iP	35	45.86	-0.3
			eS	35	57.47	
TRF	0.45	11	iP	35	46.52	-0.3
			eS	35	58.69	
RND	0.84	61	iP	35	49.55	-0.4
			eS	36	03.62	
MCK	1.01	43	eP	35	51.52	-0.1
SKT	1.14	206	iP	35	52.64	-0.4
			eS	36	09.01	
PWA	1.39	168	P	35	56.20	0.2
			S	36	17.30	
GHO	1.44	149	eP	35	56.68	0 0
			eS	36	17.07	
SUA	1.56	185	eP	35	58.27	0.1
			eS	36	19.76	
PLRM	1.56	155	eP	35	57.88	-0 1
PMR	1.56	155	eP	35	57.15	-0.9
			eS	36	17.14	
SML	1.57	139	iP	35	57.75	-0.5
			eS	36	19.49	
NEA	1.69	21	eP	35	59.02	-0 8
WRH	1.81	35	eP	36	00.52	-0.8
PMS	1.82	166	P	36	01.10	-0.4
SCM	1.88	127	eP	36	01.32	-1.0
CRP	1.92	205	eP	36	01.90	-0.9
CPAM	1.92	205	eP	36	02.63	-0.2
CP2	1.94	206	eP	36	02.61	-0.5
CKN	1.96	205	eP	36	03.98	0.7
BGL	1.97	208	eP	36	03.62	0.2
SPU	1.98	203	eP	36	02.82	-0.7
CKT	1.99	205	eP	36	03.73	0.1
CKL	2.02	206	eP	36	04.74	0.7
CCB	2.03	35	eP	36	03.13	-0.9
MLY	2.03	357	eP	36	03.59	-0.6
THY	2.18	77	eP	36	07.27	1.1
FBA	2.24	31	eP	36	05.60	-1.3
PTE	2.26	162	eP	36	06.40	-0.7
PAX	2.29	89	iP	36	07.54	-0.1
			eS	36	35.67	
NKA	2.30	189	P	36	11.80	4.1
SDG	2.32	100	eP	36	07.64	-0.4
			S	36	37.09	
SLKM	2.51	177	eP	36	10.14	-0.4
TTA	2.53	271	eP	36	09.06	-1.7
MPA	2.59	168	eP	36	10.74	-0.7
KLU	2.62	123	eP	36	10.52	-1.6
			eS	36	43.51	
DFR	2.64	204	eP	36	12.71	0.4
VLZ	2.72	132	eP	36	11.44	-1.8
NCT	2.72	206	eP	36	13.62	0.2
REF	2.74	204	eP	36	14.28	0.5
			eS	36	47.51	
RDW	2.77	205	eP	36	14.12	0.0
RS2	2.77	204	eP	36	13.09	-1.2
RSO	2.77	204	eP	36	13.06	-1.2
RS1	2.78	204	eP	36	14.45	0.2
SEW	2.96	170	eP	36	15.68	-0.8
SVW	3.08	234	eP	36	16.98	-1.3
INE	3.21	204	eP	36	18.49	-1.6
HIN	3.24	142	eP	36	18.40	-1.9
CVA	3.34	136	eP	36	21.07	-0.6
IMA	3.37	337	P	36	21.50	-0.7
GLB	3.50	114	eP	36	22.38	-1.6
CNPM	3.51	186	eP	36	23.55	-0.6
RAGM	3.82	131	eP	36	27.98	-0.3
CROM	4.15	120	eP	36	31.19	-1.8
TGL	4.27	119	eP	36	32.40	-2.2
BALM	4.32	114	eP	36	32.96	-2.2
CDD	4.37	202	eP	36	35.89	0.0
SYI	4.51	193	eP	36	37.23	-0.5
CTGM	4.78	111	eP	36	40.11	-1.5
YAH	4.94	119	eP	36	41.17	-2.7

59 obs. associated

% MAY 10, 1993 10h 37m 04.43± 6.51s
39.675 N ±39.3km 23.986 E ±26.9km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

PAIG	0.35	317	iPg	37	10.70	-0.9
			eSg	37	16.50	
OUR	0.66	360	ePg	37	16.86	-0.7
			eSg	37	27.38	
LIT	1.23	291	ePb	37	26.80	-0.5
			eSb	37	44.40	
THE	1.24	321	ePb	37	28.66	1.3
SOH	1.24	337	ePb	37	27.60	0.0
KNT	1.70	331	ePb	37	34.94	0.6
			eSb	37	58.66	

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

% MAY 10, 1993 10h 46m 16.30± 0.78s
40.144 N ± 6.5km 23 409 E ± 6.1km
DEPTH = 10.0km (geophysicist)
GREECE (364)

PAIG	0.30	136	ePg	46	22.72	0.2
			eSg	46	24.88	
OUR	0.48	66	ePg	46	26.08	0.1
			eSg	46	33.08	
THE	0.59	325	ePg	46	28.64	0.4
			eSg	46	37.64	
SOH	0.68	356	ePg	46	29.88	0.1
			eSg	46	39.56	
LIT	0.71	267	ePg	46	29.84	-0.4
SRS	0.98	8	ePg	46	33.92	-1.0
			eSg	46	47.92	
KNT	1.09	339	ePg	46	37.48	0.7
			eSg	46	51.56	

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

MAY 10, 1993 10h 54m 59.55± 0.18s
14.449 N ± 3.1km 40.194 E ± 3.3km
DEPTH = 10.0km (geophysicist)
5.1mb (57 obs.) 4 2Msz (3 obs.)
ETHIOPIA (558)
MD 5.4 (ARO).

HLD	3.58	142	ePc	55	56.01	-0.2
DAF	3.63	141	ePc	55	56.77	-0.2
KSU	3.65	143	ePc	55	56.90	-0.4
SGH	3.82	141	ePc	55	59.39	-0.5
ARO	3.89	138	ePc	56	00.32	-0.4
			S	57	02.00	
GBR	3.95	146	ePc	56	01.53	-0.1
ATA	4.18	135	ePc	56	02.96	-1.8
DHJN	4.50	44	eP	56	10.40	0.8
ABHA	4.51	33	eP	56	08.33	-1.3
AAE	5.57	195	Pn	56	26.50	1.7
RYD	11.87	30	eP	58	08.00	16.1X
QASM	12.00	15	eP	57	55.64	2.0
MJMA	12.31	22	eP	57	58.67	0.8
BADA	14.81	342	eP	58	34.67	3.8X
AYN	14.87	346	eP	58	31.00	-0.6
DHR	15.02	37	eP	58	36.00	2.4
SAGI	16.50	343	eP	58	53.70	0.9
DSI	17.60	346	eP	59	06.60	0.0
HRI	19.17	349	eP	59	23.50	-2.5
BHL	19.80	349	P	59	32.00	-1.2
			S	06	00.00	
TEH	23.46	23	e(P)	00	14.00	3.8X
TAB	24.14	12	iP-	00	18.00	1.2
			i	05	09.00	
BCK	24.46	341	eP	00	21.50	1.7
CIN	25.44	337	eP	00	29.00	-0.1
MAIO	27.78	35	eP	00	52.00	1.3
			eS	05	52.00	
FAI	32.75	319	P	01	37.40	2.6
ULC	32.86	331	iPc	01	34.45	-1.3
GIB	32.97	320	P	01	37.60	0.8
PVY	33.02	332	iPc	01	37.63	0.4
MLR	33.20	342	eP	01	41.00	2.2
TTG	33.22	331	iPc	01	38.95	0.2
IVA	33.27	332	iPc	01	39.51	0.2
CMP	33.29	340	ePc	01	40.00	0.6
BDV	33.31	331	eP	01	38.78	-0.8
VRI	33.32	343	ePc	01	40.50	0.9
MGR	33.46	325	P	01	41.20	0.3
HCY	33.59	330	iPc	01	41.34	-0.7
NKY	33.64	331	iPc	01	43.11	0.6
PLE	33.86	332	iPc	01	44.81	0.3
SGO	33.88	325	P	01	45.40	0.9
BRY	33.92	331	iPc	01	45.54	0.5
GZR	34.18	338	ePd	01	47.50	0.3
GBA	36.12	87	Pd	02	05.00	1.1
RDP	36.14	324	P	02	05.40	1.5
BUL	36.21	199	iPd	02	05.90	1.1
	1.1s	25.32nm			5.0mb	
			i	14	10.30	
MNS	36.57	325	P	02	07.60	0.1
UZD	36.81	335	eP	02	09.60	0.2
HYB	36.96	80	eP	02	12.10	1.0
ASS	37.04	326	P	02	11.40	-0.1
ARV	37.17	327	P	02	13.20	0.7
ZAG	37.33	332	eP	02	14.00	0.2
PTJ	37.40	332	eP	02	15.20	0.7
VBY	37.43	331	eP	02	15.00	0.3
MAO	37.46	324	P	02	15.40	0.5
SRO	37.90	336	eP	02	09.90	-8.6X
CEY	38.00	330	eP	02	20.00	0.5
LJU	38.17	331	e(P)	02	21.80	0.9
TRI	38.30	330	P	02	22.70	0.8
SPC	38.32	339	eP	02	23.70	1.4
VOY	38.47	330	iPd	02	24.10	0.6
			e	02	56.00	
SOP	38.51	334	eP	02	24.00	0.3
ZST	38.69	335	iP	02	25.90	0.7
	1 2s	66.50nm			5.2mb	
PGF	38.79	322	iPd	02	26.10	-0.2
	1.2s	35.70nm			4.9mb	
RBL	38.92	330	P	02	27.80	0.6
VKA	39.07	335	e(P)	02	28.00	-0.4
	3.0s	269.00nm			5.4mb	
OJC	39.35	339	eP	02	30.20	-0.5
FVI	39.41	330	P	02	32.20	1.0
KBA	39.49	331	iPd	02	32.40	0.3
	1.2s	30.90nm			4.9mb	
			i	02	50.50	
			i	04	08.10	
CTI	39.59	329	P	02	33.40	0.6
BHG	40.17	331	iPc	02	37.80	0.3
	1.2s	37.00nm			4.9mb	
WTTA	40.44	330	iPd	02	40.20	0.3
	1.4s	74.30nm			5.2mb	
			i	02	50.20	
			i	04	19.50	
			i	04	22.20	
OGA	40.47	329	iPc	02	41.40	1.2
	1.3s	92.00nm			5.3mb	
SBF	40.49	323	iPd	02	40.20	-0.1
	1.2s	36.60nm			5.0mb	
WATA	40.52	330	iPd	02	40.60	0.1
AURF	40.57	323	P	02	41.37	0.4
SQTA	40.62	330	iPd	02	41.50	0.2
	1.3s	51 80nm			5.1mb	
GEC2	40.63	333	e(P)	02	41.40	0.0
	1.1s	31.50nm			4.9mb	

10d 11h

OBN 40.66 357 iPd 02 41.50 0.1
1.2s 88.00nm 5.3mb
e 03 31.00
e 04 19.00
e 04 44.00
TOUF 40.69 323 P 02 41.98 -0.1
LMR 40.73 322 iPd 02 41.90 -0.3
1.5s 50.65nm 5.0mb
MOTA 40.76 330 iPd 02 42.00 -0.5
1.1s 30.80nm 4.9mb
i 02 53.40
FRF 40.78 322 iPd 02 42.30 -0.3
1.3s 45.15nm 5.0mb
OSS 40.79 328 ePc 02 44.00 1.2
KHC 40.90 333 Pd 02 43.10 -0.4
e 03 17.00
VAI 40.97 326 P 02 43.70 -0.3
TMA 41.07 327 iPc 02 45.60 0.5
KSP 41.12 337 iP 02 45.40 0.1
PRU 41.14 335 P 02 44.90 -0.5
1.4s 38.40nm 4.9mb
WET 41.22 333 iPc 02 45.80 -0.3
1.3s 36.00nm 4.9mb
FUR 41.25 331 eP 02 46.40 0.1
LLS 41.50 328 iPc 02 48.90 0.2
MMK 41.53 326 ePc 02 48.50 -0.4
DIX 41.85 326 ePc 02 51.70 0.1
LPG 41.86 324 iPd 02 50.80 -0.9
1.4s 57.95nm 5.1mb
LPL 41.88 324 iPd 02 50.90 -0.9
1.3s 50.20nm 5.1mb
BRG 42.07 335 iPd 02 52.60 -0.4
1.3s 14.00nm 4.5mb
EMS 42.10 325 iPc 02 53.10 -0.5
ZLA 42.21 328 ePc 02 54.10 -0.2
SLE 42.35 328 ePc 02 55.30 -0.1
GRF 42.36 332 iPd 02 54.80 -0.6
1.3s 43.00nm 5.0mb
Z 19s 0.10um 3.7Msz
BBS 42.66 327 P 02 57.41 -0.6
FEL 42.66 328 P 02 57.41 -0.7
CLL 42.79 335 iPd 02 58.00 -0.9
1.4s 41.00nm 5.0mb
MOX 42.87 333 iPc 02 59.60 0.0
1.5s 57.00nm 5.1mb
LOMF 42.95 327 P 03 00.13 -0.3
MOF 43.10 327 P 03 00.82 -0.8
BSF 43.27 327 iPd 03 02.50 -0.5
1.3s 84.10nm 5.3mb
ECH 43.32 328 P 03 02.77 -0.6
GkN 43.33 64 P 03 03.80 -0.1
1.4s 126.00nm 5.5mb
CDF 43.39 328 P 03 03.20 -0.7
LANF 43.49 329 P 03 04.10 -0.6
HAU 43.61 327 iPd 03 05.10 -0.6
1.2s 34.50nm 5.0mb
DMN 43.69 65 P 03 07.00 0.1
1.1s 76.00nm 5.4mb
LBL 43.74 322 P 03 06.74 -0.1
KKN 43.86 65 P 03 08.20 -0.1
PLDF 43.92 323 P 03 07.69 -0.6
VITF 43.93 327 P 03 07.54 -0.7
PKI 43.95 65 P 03 08.60 -0.5
TNS 44.01 331 ePd 03 08.30 -0 6
SMF 44.17 324 iPd 03 09.30 -0 9
1.1s 14.00nm 4 7mb
AGO 44.25 323 P 03 10.27 -0.6
CAF 44.29 321 iPd 03 11.40 0 2
1.3s 0.45nm 3.2mb X
LBF 44.29 325 iPd 03 10.40 -0.8
1.0s 39.60nm 5.2mb
GUN 44.41 65 P 03 12.60 -0.2
LOR 44.52 325 iPd 03 12.30 -0.7
1.2s 53.85nm 5.3mb
Z 23s 0.10um 3.7MszX
AVF 44.53 324 iPd 03 12.20 -0.9
0.9s 13.60nm 4.8mb
SSF 44.60 324 iPd 03 12.70 -1.0
1.1s 21.00nm 4.9mb
MAF 44.67 323 iPd 03 13.90 -0.4
1.1s 11.00nm 4.7mb
BGF 44.69 323 iPd 03 14.10 -0.3
LPO 44.70 320 iPd 03 14.80 0.3
1.3s 40.45nm 5.2mb
RJF 44.81 321 iPd 03 15.30 -0.1
1.3s 31.05nm 5.1mb
KIC 44.85 264 P 03 17.10 0.9

1.3s 63.00nm 5.4mb
TCF 44.92 323 iPd 03 16.30 0.0
1.4s 18.30nm 4.8mb
TIC 45.05 265 P 03 19.30 1.5
LFF 45.10 320 iPd 03 18.00 0.2
1.2s 50.30nm 5.3mb
LIC 45.16 264 P 03 19.50 0.9
Z 19s 0.29um 4.2Msz
LSF 45.30 322 iPd 03 19.10 -0.2
1.1s 23.20nm 5.0mb
MFF 46.47 322 eP 03 27.70 -0.8
1.3s 16.25nm 4.9mb
NUR 47.37 350 iP 03 34.70 -0.7
0.9s 37.80nm 5.5mb
LDF 47.48 324 iPd 03 35.20 -1.3
1.4s 30.50nm 5.2mb
LPF 47.72 323 iPd 03 37.00 -1.3
1.5s 49.60nm 5.4mb
FLN 47.77 324 iPd 03 37.40 -1.4
1.2s 34.80nm 5.3mb
Z 26s 0.10um 3.7MszX
GRR 47.79 324 iPd 03 37.50 -1.4
1.3s 36.10nm 5.3mb
MUD 48.16 337 ePd 03 41.50 -0.1
1.3s 33.00nm 5.3mb
UPP 48.28 345 iP 03 42.00 -0.5
KAF 48.62 351 iP 03 44.10 -1.1
1.1s 27.00nm 5.2mb
HFS 49.56 343 eP 03 50.70 -1.8
0.4s 1.00nm 4.2mb
Z 17s 0.08um 3.8MszX
LR 29 09.00
NB2 51.02 342 P 04 02.30 -1.3
1.3s 76.90nm 5.5mb
SDF 53.70 353 iP 04 22.90 -0.6
KMI 59.36 69 Pd 05 04.00 -1.0
1.5s 50.00nm 5.4mb
pP 05 12.00 26kmX
LZH 60.42 57 Pd 05 11.50 -0.5
1.8s 60.00nm 5.4mb
Z 20s 0.65um 4.8Msz
N 14s 0.37um
pP 05 17.50 20kmX
sP 05 21.00
IRK 62.90 38 ePd- 05 27.00 -1.2
4.0s 0.21nm 2.7mb X
LR 34 00.00
DAG 69.13 348 eP 06 06.80 -0.8
1.2s 10.94nm 4.9mb
BJI 70.18 52 eP 06 15.50 0.9
1.6s 67.00nm 5.5mb
Z 16s 0.88um 5.1MszX
SSE 75.08 61 Pc 06 44.00 0.3
1.0s 11.00nm 4.8mb
YAK 77.15 29 eP 06 54.00 -0.8
1.5s 61.00nm 5.5mb
e 09 49.00
FRB 85.20 335 eP 07 37.00 -0.2
NVL 87.22 189 iPc 07 50.00 3.2X
1.5s 35.00nm 5.4mb
MBC 88.65 355 eP 07 55.00 1.2
1.0s 3.00nm 4.5mb
INK 97.34 358 eP 08 26.00 -8.0X
YKA 100.80 348 ePdiff08 50.70 1.2
1.1s 0.60nm 4.1mb X
S.D. = 0.9 on 155 of 161 obs.

MAY 10, 1993 11h 11m 47.02± 0.84s
39.293 S ± 5.4km 177.288 E ± 9.0km
DEPTH = 31.5 ± 4.7 km
4.2mb (1 obs.)
OFF E. COAST OF N. ISLAND, N.Z. (160)
ML 3.9 (WEL).

MOH 0.19 326 Pd 11 51.40 -2.0
TTH 0.44 235 Pc 11 58.30 1.8
TAHZ 0.45 290 P 11 55.90 -1.1
PAHZ 0.47 337 Pc 11 55.20 -1.9
MAHZ 0.47 77 P 12 00.70 3.6X
WHH 0.74 303 Pd 11 59.80 -1.4
TEHZ 0.79 208 P 12 04.50 2.7X
WAHZ 0.83 240 P 12 04.20 1.8
NOZ 0.89 41 P 12 05.10 1.8
URZ 1.04 352 Pc 12 05.10 -0.3
S 12 17.80
PATZ 1.21 318 Pc 12 08.60 0.6
TAZ 1.22 330 eP 12 08.30 0.3

NGZ 1.32 274 P 12 10.80 1.3
DRZ 1.34 270 P 12 11.70 1.7
CNZ 1.35 273 P 12 11.50 1.5
HBZ 1.87 26 eP 12 18.10 0.8
BSZ 1.89 254 eP 12 19.80 2.1X
MNG 1.92 226 eP 12 19.10 1.0
eS 12 42.40
WLZ 1.94 316 eP 12 18.80 0.4
MOZ 2.09 291 P 12 20.90 0.3
MTW 2.31 216 eP 12 23.60 -0.1
KIW 2.41 229 P 12 25.00 -0.1
CAW 2.49 222 eP 12 25.40 -0.8
BLW 2.49 213 eP 12 26.00 -0.3
NRZ 2.60 268 eP 12 29.50 1.7
MOW 2.63 216 eP 12 27.20 -1.1
MRW 2.77 225 P 12 29.20 -0.9
eS 13 03.00
DIW 2.99 239 eP 12 32.80 -0.6
TCW 3.00 229 eP 12 32.10 -1.3
ORZ 3.96 246 eP 12 45.00 -2.1
KHZ 4.22 221 eP 12 47.70 -3.0X
S 13 36.20
LTZ 5.15 226 eP 13 00.20 -3.9X
eS 13 57.50
ODZ 7.57 218 eP 13 33.20 -4.8X
WB2 41.55 285 eP 19 32.10 -1.3
0.4s 1.90nm 4.2mb
S.D. = 1.3 on 28 of 34 obs.

& MAY 10, 1993 11h 46m 07.06s
34.970 N 116.937 W
DEPTH = 0.1km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 2.8 (PAS).

GSC 0.35 18 iPd 46 14.06 0.0
eS 46 18.84
SSK 0.98 220 eP 46 25.37 -1.4
eS 46 38.50
PEC 1.09 190 ePd 46 27.44 -1.1
eS 46 41.22
PLM 1.61 178 eP 46 36.06 -1.0
eS 46 56.28
TPNV 2.05 16 (P) 46 42.84 -0.6
BCH 2.59 276 eP 46 48.94 -2.1
GLA 2.59 137 ePn 46 50.89 -0.2
ePg 46 55.15
eS 47 29.16
BONR 3.18 340 (Pn) 46 56.85 -2.7
CMB 4.13 319 (P) 47 13.46 0.6
eS 48 10.29
MSU 5.21 46 (P) 47 27.55 -0.8
10 obs. associoted

% MAY 10, 1993 11h 47m 09.21± 0.81s
40.132 N ± 6.6km 23.597 E ± 7.4km
DEPTH = 10.0km (geophysicist)
GREECE (364)

PAIG 0.21 163 ePg 47 13.58 -0.3
OUR 0.36 55 ePg 47 16.94 0.4
eSg 47 21.00
SOH 0.71 345 ePg 47 22.80 -0.5
LIT 0.85 268 ePg 47 26.02 0.4
eSg 47 37.90
KNT 1.16 333 ePg 47 30.82 0.0
eSg 47 47.06
S.D. = 0.6 on 5 of 5 obs.

• MAY 10, 1993 11h 49m 34.13± 0.75s
39.117 N ± 5.7km 27.626 E ±10.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

IZM 0.77 202 iPg 49 49.10 -0.1
iSg 50 01.10
EZN 1.23 306 iPn 49 57.10 0.1
EDC 1.24 8 ePn 49 57.00 -0.2
KCT 1.26 26 ePn 49 57.70 0.1
CIN 1.56 166 ePn 50 02.00 0.1
iSg 50 27.00
S.D. = 0.2 on 5 of 5 obs.

% MAY 10, 1993 12h 19m 08.89± 0.69s
43.047 N ± 7.5km 0.532 W ± 5.6km
DEPTH = 10.0km (geophysicist)

PYRENEES (378)
ML 1 0 (STR).

ESCF	0.04	315	Pg	19 10.27	-0.8
			Sg	19 10.87	
JAU	0.12	94	Pg	19 12.11	0.1
OGE	0.13	19	Pg	19 11.98	0.0
ATE	0.13	287	Pg	19 12.02	0.0
			Sg	19 13.71	
LHE	0.15	206	Pg	19 12.37	-0.1
			Sg	19 14.69	
ISSF	0.19	264	Pg	19 13.49	0.2
			Sg	19 16.14	
MADF	0.23	295	Pg	19 13.99	0.1
			Sg	19 17.61	

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

MAY 10, 1993 12h 51m 00.21± 0.98s
39.747 N ± 8.4km 23.532 E ± 7.1km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

PAIG	0.21	32	ePg	51 04.86	0.0
			eSg	51 10.24	
OUR	0.68	30	iPg	51 11.78	-1.9
			eSg	51 22.04	
LIT	0.88	294	ePg	51 17.86	0.8
			eSg	51 33.48	
THE	0.98	334	iPb	51 19.44	0 6
			eSb	51 35.52	
SOH	1.08	353	ePb	51 20.84	0.3
			eSb	51 36.84	
AGG	1.18	233	ePb	51 21.26	-1.0
			eSb	51 37.98	
GRG	1.49	325	ePb	51 27.20	0.2
KNT	1.49	341	ePb	51 26.66	-0.4
EZN	2.15	87	ePn	51 3B.00	1.4

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

& MAY 10, 1993 12h 57m 40.17s
59.796 N 152.749 W
DEPTH = 93.3km
SOUTHERN ALASKA (2)
<AEIC>.

OPT	0.28	240	iPc	57 53.38	-0.8
			eS	58 03.36	
INE	0.31	329	eP	57 53.82	-0.6
			eS	58 04.81	
INW	0.33	325	eP	57 53.67	-0.8
			eS	58 04.61	
AUE	0.54	216	eP	57 55.12	-0.6
AUL	0.54	220	eP	57 55.38	-0.4
AUH	0.56	219	P	57 55.70	-0.3
AUW	0.56	221	ePc	57 55.42	-0.5
AUI	0.58	217	eP	57 55.47	-0.6
			eS	58 06.13	
RS1	0.67	360	ePd	57 56.35	-0.8
			eS	58 09.51	
RSO	0.67	360	ePd	57 56.30	-0.9
			eS	58 08.96	
RS2	0.67	360	ePd	57 56.36	-0.8
			eS	58 09.85	
RDW	0.69	358	ePd	57 56.47	-0.9
			eS	58 10.19	
PDB	0.73	270	eP	57 56.77	-0.7
NCT	0.77	353	ePd	57 57.20	-0.9
			eS	58 10.23	
DFR	0.80	2	ePd	57 57.54	-0.8
CNPM	0.81	109	iPc	57 57.53	-0.9
BRLK	0.94	91	eP	57 58.99	-0.8
			eS	58 12.90	
CDD	0.98	208	ePd	57 59.24	-1.0
			eS	58 14.29	
MCNL	1.02	234	ePd	57 59.60	-1.0
			eS	58 14.33	
SYI	1.20	171	eP	58 02.15	-0.6
NKA	1.21	38	ePd	58 03.84	1.0
CKL	1.42	8	ePd	58 04.92	-0.7
SPU	1.43	14	iPd	58 04.98	-0.7
			eS	58 24.26	
CKT	1.44	11	ePd	58 05.02	-0.7
SLKM	1.45	59	ePc	58 05.56	-0.3
CKN	1.46	11	eP	58 05.66	-0.4
BGL	1 48	7	ePd	58 05.85	-0.5
CP2	1.49	9	iPd	58 05.87	-0.8
CPAM	1.49	11	ePd	58 06.01	-0.5
CRP	1.50	11	eP	58 05.45	-1.3
SEW	1.69	78	eP	58 08.26	-0.6
MPA	1.83	66	eP	58 09.71	-1.0
SVW	1.94	314	eP	58 10.74	-1.5
SUA	1.94	30	ePd	58 11.97	-0.4
KDC	2.06	176	(P)	58 11.45	-2.3
PTE	2.14	58	ePc	58 13.95	-0.9
PMS	2.14	46	P	58 14.30	-0.7
SKT	2.27	15	ePd	58 15.79	-0.9
PWA	2.34	36	P	58 17.30	-0.2
PLRM	2.53	43	eP	58 18.87	-1.3
PMR	2.53	43	(P)	58 18.04	-2.1
GHO	2.73	42	eP	58 22.45	-0.5
SML	2.96	45	eP	58 24.40	-1.7
HIN	3.19	76	eP	58 26.54	-2.6
SCM	3.35	50	eP	58 29.80	-1.7

45 obs. associated

% MAY 10, 1993 13h 12m 08.61± 0.73s
26.385 S ± 6.4km 27 461 E ± 7.3km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.6 (PRE).

PRY	0.54	179	eP	12 19.50	0.0
			S	12 25.40	
KSR	0.72	315	eP	12 23.00	-0.1
			S	12 32.50	
SLR	0.98	49	eP	12 27.00	-0.8
			S	12 39.00	
SEK	1.94	176	eP	12 42.00	-0.7
			S	13 07.50	
SWZ	2.07	247	iPd	12 45.00	0.5
			S	13 08.90	
BFT	2.43	74	eP	12 50.90	1.1
			S	13 20.00	

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

MAY 10, 1993 13h 22m 34.91± 0.96s
33.247 S ± 5.7km 70.242 W ± 7.3km
DEPTH = 10.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)
MD 3.7 (SAN).

FCH	0.09	207	iP	22 38.11	0.3
			iS	22 41.44	
PEL	0.39	285	iP	22 43.74	0.9
			iS	22 51.25	
SAN	0.41	240	(P)	22 41.62	-1.6
			iS	22 52.04	
PCH	0.44	211	iP	22 44.07	0.2
			iS	22 51.98	
JACH	0.64	332	iP	22 46.83	-0.9
			iS	22 57.15	
ROCH	0.70	293	iP	22 49.28	0.4
			iS	23 01.18	
TACH	0.71	235	iP	22 49.21	0.3
			iS	23 01.28	
CHCH	0.77	206	iP	22 49.51	-0.4
			iS	23 02.07	
LCCH	1.13	258	iP	22 56.80	0.7
			iS	23 14.15	
LNV	1.21	234	iP	22 57.28	-0.1
			iS	23 15.47	
RFA	2.12	136	ePd	23 11.20	0.3
			S	23 39.60	

S.D. = 0.8 on 11 of 11 obs.

• MAY 10, 1993 14h 00m 04.04± 0.48s
15.240 S ±18.8km 174.294 W ±16.1km
DEPTH = 170.0km (geophysicist)
4.7mb (10 obs.)
TONGA ISLANDS (173)

DZM	19.46	247	iPc	04 25.20	5.1X
CTA	37.84	257	eP	07 06.00	0.0
CNB	38.17	232	iPd	07 08.30	-0.4
	0.7s		12.00nm		4.7mb
TOO	41.90	230	iPd	07 38.80	-0 5
	0.8s		22 00nm		4.8mb
WB2	49.03	257	eP	08 35.10	-0.7
	0.6s		29.10nm		5.1mb
WRA	49.04	257	P	08 35.80	-0.1
	0.6s		14.20nm		4 8mb
ASPA	49.34	252	iPd	08 38.00	-0.2
	0.7s		81 60nm		5.5mb
SPA	74.86	180	iPd	11 27.00	-0.4
	1.0s		35.00nm		5.0mb
TNP	75.31	43	eP	11 29.29	-1.2
	1.1s		7.79nm		4.4mb
CRP	78.27	11	eP	11 44.85	-1.4
PV09	81.01	46	eP	12 01.50	-0.1
PV08	81.39	46	eP	12 02.91	-0.7
FBA	82.40	11	eP	12 07.25	-0.6
	0.7s		6.99nm		4.5mb
BW06	82.73	42	eP	12 09.30	-1.0
	0.9s		2.40nm		4.0mb
INK	88.32	14	eP	12 38.50	1.5
YKA	90.30	24	eP	12 45.20	-1.1
	0.8s		1.40nm		4.0mb
MBC	96.94	11	eP	13 16.50	0.0
PRU	144.61	350	ePKP	19 21.00	-0.7
GRF	145.35	354	ePKPd	19 24.00	1.0
KHC	145.59	351	ePKP	19 25.00	1.5
GEC2	145.85	351	PKP	19 25.40	1.4
	0.8s		2.65nm		
FLN	146.19	7	ePKP	19 25.40	1.0
	0.8s		8.35nm		
LDF	146.40	7	ePKP	19 25.90	1.1
	0.5s		2.85nm		
GRR	146.51	8	ePKP	19 26.60	1.7
	0.7s		9.25nm		
LPF	146.83	8	ePKP	19 27.60	2.2X
	0.7s		15.00nm		
CDF	146.90	358	ePKP	19 28.10	2.4X
	0.8s		5.65nm		
HAU	147.33	359	ePKP	19 29.30	3.0X
	0.7s		11.45nm		
BSF	147.49	359	ePKP	19 29.40	2.7X
	0.6s		3.00nm		
LOR	148.03	2	ePKP	19 31.10	3.6X
	0.7s		6.40nm		
SSF	148.22	3	ePKP	19 31.70	4.0X
	0.7s		6.40nm		
LBF	148.32	2	ePKP	19 31.90	3.9X
	0.6s		6.75nm		
MFF	148.35	8	ePKP	19 31.60	3.7X
	0.6s		3.80nm		
AVF	148.48	3	ePKP	19 32.10	4.0X
	0.9s		7.85nm		
LSF	148.89	6	ePKP	19 32.90	4.1X
MAF	149.00	4	ePKP	19 33.70	4.7X
	0.8s		6.05nm		
LPL	149.81	359	ePKP	19 36.70	6.2X
	0.7s		4.95nm		
LPG	149.83	359	ePKP	19 36.90	6.2X
	0.6s		4.80nm		
CAF	150.25	5	ePKP	19 37.10	6.1X
	0.8s		5.65nm		
OHR	151.08	336	e(PKP)	19 39.20	6.8X

S.D. = 1.0 on 23 of 39 obs.

% MAY 10, 1993 14h 24m 56.63± 0.77s
26.892 S ± 7.8km 26.716 E ± 6.1km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.3 (PRE).

BFS	0.06	96	iPd	24 57.70	-0.7
			S	24 58.20	
PRY	0.68	93	eP	25 10.20	0.0
			S	25 18.40	
KSR	1.04	9	eP	25 17.00	0.2
			S	25 29.00	
SWZ	1.27	257	eP	25 20.50	-0.3
			S	25 34.70	
SEK	1.64	151	eP	25 27.00	0.7
			S	25 47.50	
SLR	1.82	51	eP	25 29.00	0.1
			S	25 51.00	
BFT	3.22	69	eP	25 55.00	6.0X
			S	26 33.50	

S.D. = 0.6 on 6 of 7 obs.

& MAY 10, 1993 15h 40m 09.46s
37.866 N 122.234 W
DEPTH = 10.8km
CENTRAL CALIFORNIA (39)
<GM-P>. MD 2.6 (GM). ML 2.4 (BRK). Felt ot Berkeley, Oakland and Walnut Creek.

BKS	0.01	356	iPd	40 11.24	-0.2
			eS	40 12.31	

10d 15h

ZSP	0.08	347	iPd	40	12.24	0.2
			eS	40	14.59	
PCC	0.38	198	iPd	40	17.16	-0.2
			eS	40	22.14	
JEGM	0.40	207	iPd	40	17.17	-0.4
			eS	40	20.63	
HMR	0.45	50	eP	40	19.24	0.6
NTYM	0.62	327	eP	40	21.56	-0.3
			eS	40	31.46	
MHC	0.70	138	ePc	40	23.10	-0.3
			eS	40	33.57	
COE	0.75	144	eP	40	24.21	0.1
			eS	40	36.30	
ARN	0.76	133	eP	40	23.75	-0.5
			eS	40	34.73	
GCC	0.86	167	iPd	40	25.15	-0.7
			eS	40	37.29	
SAO	1.27	150	eP	40	30.98	-1.9
CMB	1.47	83	iPd	40	35.47	-0.5
			eS	40	53.95	
ORV	1.78	19	(P)	40	40.29	-0.1
MEMM	2.62	93	(P)	40	52.85	0.5

14 obs. associated

& MAY 10, 1993 15h 49m 58.67s
59.738 N 153.144 W
DEPTH = 108.1km
SOUTHERN ALASKA (2)
<AEIC>.

INE	0.33	7	eP	50	14.05	-0.7
INW	0.33	1	eP	50	13.92	-0.8
			eS	50	25.86	
AUL	0.39	203	eP	50	14.27	-0.6
			eS	50	26.58	
AUH	0.41	202	eP	50	14.15	-0.9
AUI	0.43	200	eP	50	14.66	-0.4
			eS	50	26.09	
RS1	0.75	15	eP	50	17.08	-0.7
			eS	50	30.66	
RSO	0.75	15	eP	50	16.98	-0.8
			eS	50	30.79	
RS2	0.75	15	eP	50	17.05	-0.8
			eS	50	30.65	
RDW	0.77	12	eP	50	17.02	-0 9
			eS	50	30.92	
XLV	0.78	111	eP	50	16.83	-1.0
REF	0.79	16	eP	50	17.23	-0.9
			eS	50	31.37	
MCNL	0.82	228	eP	50	17.15	-1.1
			eS	50	31.33	
NCT	0.83	7	eP	50	17.52	-0.9
			eS	50	31.99	
CDD	0.85	198	eP	50	17.50	-1.0
			eS	50	32.83	
DFR	0.89	15	iP	50	18.07	-0.9
			eS	50	32.86	
RDT	0.92	23	eP	50	18.31	-0.9
CNPM	0.99	102	eP	50	18.82	-1.1
BRLK	1.14	88	eP	50	20.81	-0.8
			eS	50	37.47	
SYI	1.20	161	eP	50	21.41	-0.7
NKA	1.39	42	eP	50	25.28	1.0
CKL	1.52	15	eP	50	24.72	-1.4
CKT	1.54	17	eP	50	25.35	-1.0
SPU	1.55	20	eP	50	25.36	-1.0
CKN	1.57	17	eP	50	26.14	-0.5
BGL	1.58	13	eP	50	26.14	-0.6
CP2	1.60	16	eP	50	26.55	-0.6
CPAM	1.60	18	eP	50	26.41	-0.7
CRP	1.61	17	eP	50	26.71	-0.6
			S	50	49.01	
SLKM	1.65	61	eP	50	26.94	-0.8
SVW	1.84	319	eP	50	29.18	-0.9
SEW	1.90	77	eP	50	29.37	-1.3
MPA	2.04	67	eP	50	31.32	-1.2
SUA	2.10	33	eP	50	32.98	-0.5
PMS	2.33	48	eP	50	35.82	-0.6
			eS	51	02.28	
PTE	2.34	59	eP	50	35.44	-1.1
SKT	2.38	19	eP	50	36.13	-1.0
PWA	2.50	39	eP	50	37.92	-0.7
GHO	2.91	44	eP	50	42.64	-1.5
SML	3.14	47	eP	50	45.07	-2.3
HIN	3.39	76	eP	50	48.73	-2.0
SCM	3.54	51	eP	50	50.67	-2.1
VLZ	3.65	65	eP	50	52.47	-1.7
TRF	3.97	19	eP	50	57.11	-1.6
KLU	3.97	61	eP	50	56.29	-2.3
GLB	4.91	66	eP	51	09.80	-1.6

45 obs. associated

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* MAY 10, 1993 15h 54m 16.94± 0.48s
49.661 S ± 9.2km 8.083 W ±12.9km
DEPTH = 10.0km (geophysicist)
5.2mb (5 obs.)
SOUTHERN MID-ATLANTIC RIDGE (410)

SNA	20.90	175	iPc	59	01.30	-0.1
	1.1s		159.49nm		5.3mb	
NVL	23.13	163	eP	59	24.00	0.3
	2.0s		249.00nm		5.4mb	
			e	59	56.00	
			e	04	34.00	
SPA	40.53	180	iPc	01	58.10	0.5
	0.9s		40.91nm		5.1mb	
BUL	41.43	58	iPd	02	04.00	-1.3
	1.0s		10.00nm		4.5mb	
LSZ	45.20	54	iPd	02	35.00	-1.0
SIV	54.24	289	eP	03	55.00	9.8X
			i	03	58.80	
LIC	55.72	4	P	03	56.00	0.2
Z	20s		0.10um		3.9Msz	
KIC	55.86	4	P	03	57.00	0.1
	1.0s		30.00nm		5.3mb	
TIC	56.13	4	P	03	59.00	0.2
CNCB	57.95	282	P	04	12.20	-0.2
LP8	58.23	282	eP	04	14.00	-0.3
ZOBO	58.45	282	iPc	04	14.50	-1.4
			S	12	26.00	
			LR	22	52.00	
TDS	91.51	19	P	07	26.30	2.0
MGR	91.81	18	P	07	26.80	1.1
FRB	122.57	333	ePKP	13	14.00	1.3
YKA	139.37	317	ePKP	13	39.30	-5 5X
	0.9s		1.60nm			
BJI	140.16	82	ePKP	13	45.50	-1.4
MBC	142.60	338	ePKP	13	46.00	-4.2X
INK	147.74	325	ePKPc	14	02.60	3.6X
	0.6s		3.00nm			
MAT	152.37	106	ePKP	14	14.00	6.9X
	1.0s		13.00nm			
YAK	153.80	46	ePKP	14	16.60	8.4X

S.D. = 1.1 on 15 of 21 obs.

% MAY 10, 1993 16h 08m 19.97± 0 67s
44.344 N ± 6.2km 7.371 E ± 6.7km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.7 (GEN).

STV	0.10	199	P	08	22.99	0.2
			S	08	24.73	
ENR	0.12	163	P	08	23.26	0.2
			S	08	25.46	
PZZ	0.25	310	P	08	25.86	0.5
			S	08	29.85	
ROB	0.36	98	P	08	28.20	0.8
			S	08	33.74	
BHB	0.50	351	P	08	29.54	-0.7
IMI	0.57	139	P	08	30.54	-1.1
FIN	0.62	102	P	08	32.55	0.1

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

% MAY 10, 1993 16h 32m 14.19± 1.27s
38.873 N ± 8.0km 26.921 E ±15.6km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
ML 2.8 (ISK).

IZM	0.55	150	iPg	32	25.20	0.0
			eSg	32	32.20	
EZN	1.06	334	iPn	32	34.20	0.1
EDC	1.64	26	ePn	32	43.00	-0.2
BNT	1.67	27	ePn	32	43.00	-0.6
KCT	1.77	38	ePn	32	45.70	0.7

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

MAY 10, 1993 16h 43m 46.46± 1.01s
43.147 N ± 7.8km 20.930 E ± 8 4km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 2.5 (TTG), 2.5 (TIR).

IVA	0.81	250	iPgc	44	00.29	-1.9
			iSg	44	06.82	
PVY	0.89	232	iPgc	44	02.34	-1.3
			iSg	44	11.31	
PLE	1.14	280	iPgc	44	07.22	-0.6
			iSg	44	19.40	
SKO	1.23	162	iPn	44	08.60	-0.8
TTG	1.42	240	iPgc	44	12.25	-0.1
			iSg	44	27.87	
NKY	1.46	257	ePg	44	12.32	-0.6
			iSg	44	28.17	
PHP	1.51	194	ePn	44	14.00	0.5
			iSn	44	33.00	
ULC	1.72	227	iPgd	44	18.35	1.8
			iSg	44	39.06	
LACI	1.76	211	ePn	44	21.00	3.9X
			iSn	44	44.00	
BRY	1.77	263	iPgd	44	17.88	0.5
			iSg	44	39.05	
BDV	1.77	242	iPgc	44	18.79	1.4
			iSg	44	39.34	
HCY	1.92	249	iPgc	44	20.91	1.4
			iSg	44	43.63	
TIR	1.96	204	ePn	44	25.50	5.4X
			iSn	44	49.50	
OHR	2.04	183	ePn	44	21.00	-0.3
VAY	2.19	146	ePn	44	27.40	3.9X
BZS	2.52	11	ePc	44	28.00	0.0

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

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* MAY 10, 1993 16h 48m 14.47± 1.56s
44.416 N ± 7.6km 8.553 E ±12.1km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.0 (GEN).

PCP	0.13	357	Pc	48	17.53	-0.1
			S	48	19.83	
FIN	0.32	230	Pd	48	21.29	0.1
			S	48	26.39	
ROB	0.50	256	Pd	48	24.50	-0.2
			S	48	31.59	
IMI	0.70	224	P	48	28.32	0.0
			S	48	37.52	
ENR	0.83	257	Pc	48	30.56	-0.1
			S	48	41.98	
STV	0.90	259	P	48	31.74	0.0
			S	48	43.87	
BHB	1.01	295	P	48	33.94	0.3
			S	48	47.42	
PZZ	1.04	275	P	48	34.25	0.0
			S	48	48.23	

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

MAY 10, 1993 16h 50m 56.93± 0.38s
40.639 S ± 4.6km 174.673 E ± 5.9km
DEPTH = 87.7 ± 7.5 km
4.3mb (2 obs.)
COOK STRAIT, NEW ZEALAND (163)

KIW	0.29	141	Pc	51	09.70	-0.5
			S	51	18.00	
CAW	0.56	148	P	51	12.90	0.8
MRW	0.59	178	P	51	13.20	0.8
			S	51	23.20	
DIW	0.59	254	Pd	51	10.90	-1.6
MNG	0.62	88	P	51	13.10	0.4
			S	51	23.80	
TCW	0.65	208	P	51	13.30	0.4
WEL	0.65	174	P	51	13.90	0.9
			S	51	25.50	
MTW	0.82	130	P	51	15.30	0.6
BSZ	0.86	13	Pd	51	14.90	-0.3
MOW	0.90	151	eP	51	16.70	1.1
BLW	0.95	140	P	51	17.30	1.1
NRZ	1.42	336	P	51	21.90	0.0
CNZ	1.59	25	P	51	24.60	0.4
WAHZ	1.59	54	Pc	51	24.70	0.4
NGZ	1.63	26	eP	51	25.20	0.4
QRZ	1.64	263	Pc	51	24.60	-0.2
			S	51	43.90	
THZ	1.74	229	P	51	27.50	1.3
			S	51	49.40	
KHZ	1.97	205	Pd	51	30.50	1.3
			S	51	52.90	
MOZ	2.13	3	P	51	31.60	0.2
			S	51	55.80	

WHH	2.25	39	P	51	33.20	0.2
DSZ	2.43	242	P	51	35.90	0.4
TAZ	2.79	31	eP	51	41.80	1.4
LTZ	2.80	219	P	51	40.80	0.3
WLZ	2.86	15	eP	51	42.10	0.8
MAHZ	2.86	61	P	51	40.90	-0.5
URZ	3.03	39	Pc	51	42.40	-1.3
NOZ	3.29	53	P	51	45.70	-1.5
MQZ	3.41	205	P	51	47.70	-1.2
			S	52	23.90	
PUZ	3.78	48	P	51	51.80	-2.3
WVZ	3.82	229	eP	51	54.40	-0.1
KUZ	3.97	12	P	51	56.60	-0.1
EWZ	4.04	223	P	51	57.40	-0.2
HBZ	4.14	44	eP	51	57.90	-1.2
WCZ	4.70	357	P	52	06.40	-0.4
BWZ	5.26	221	eP	52	12.30	-2.2
ODZ	5.31	213	eP	52	13.30	-1.9
			S	53	09.20	
MSZ	6.40	229	eP	52	29.20	-1.2
TUZ	6.46	213	eP	52	29.90	-1.3
WB2	40.02	289	eP	58	26.80	2.0
	0.3s		3.70nm			4.7mb
WRA	40.03	289	P	58	27.50	2.6
	0.5s		0.80nm			3.9mb
LIC	145.73	181	PKP	10	31.60	4.5X
KIC	145.87	181	PKP	10	32.40	5.1X
TIC	146.15	181	PKP	10	34.00	6.2X
S.D. = 1.2			on	40	of	43 obs.

MAY 10, 1993 17h 08m 09.58± 0.36s
42.828 S ± 4.5km 171.663 E ± 4.3km
DEPTH = 21.0 ± 4.1 km
4.3mb (7 obs.)
SOUTH ISLAND, NEW ZEALAND (162)
Felt at Christchurch and Westport.

LTZ	0.45	84	Pd	08	19.50	0.7
			S	08	26.00	
WVZ	0.72	250	Pd	08	23.30	-0.1
EWZ	0.91	221	Pd	08	27.20	0.8
DSZ	1.08	6	Pc	08	29.60	0.1
MQZ	1.14	141	Pd	08	31.70	1.4
			eS	08	46.70	
THZ	1.41	41	P	08	34.70	0.6
			eS	08	54.60	
KHZ	1.44	74	Pd	08	36.40	1.8
LMZ	1.96	242	eP	08	43.50	1.4
ORZ	2.10	18	Pc	08	44.30	0.2
BWZ	2.14	217	Pd	08	45.20	0.6
ODZ	2.34	198	Pc	08	47.90	0.5
TCW	2.53	51	Pd	08	51.10	0.9
SNZO	2.72	57	P	08	53.70	0.7
			S	09	36.00	
MRW	2.77	56	Pd	08	53.90	0.3
WEL	2.78	57	eP	08	54.50	0.8
LRCZ	2.79	216	P	08	53.60	-0.5
MHZ	2.82	217	P	08	53.70	-0.7
LSCZ	2.82	215	Pc	08	53.90	-0.5
SBCZ	2.83	216	Pc	08	53.90	-0.6
CMCZ	2.89	216	P	08	54.70	-0.7
TLC	3.01	217	P	08	56.30	-0.9
MOW	3.02	63	P	08	56.60	-0.5
CAW	3.06	57	Pd	08	57.50	-0.3
KIW	3.12	52	P	08	59.00	0.4
BLW	3.19	64	P	08	58.60	-1.0
MSZ	3.28	235	P	09	00.60	-0.3
TUZ	3.45	204	P	09	02.60	-0.6
MNG	3.61	54	eP	09	04.90	-0.7
NRZ	3.89	27	Pc	09	10.50	1.1
BSZ	3.90	40	P	09	11.20	1.6
BCZ	4.20	219	P	09	12.70	-1.2
CNZ	4.67	40	P	09	20.70	0.0
NGZ	4.71	41	P	09	21.10	-0.2
WAHZ	4.72	50	eP	09	19.90	-1.5
MOZ	4.93	30	P	09	23.80	-0.5
TTH	5.09	52	eP	09	23.20	-3.4X
URZ	6.17	44	eP	09	37.80	-3.9X
NOZ	6.41	51	eP	09	42.70	-2.5
KUZ	6.83	29	P	09	49.40	-1.6
OUZ	7.74	12	P	10	02.70	-1.1
CNB	18.84	286	eP	12	36.00	5.6X
			eTT	2B	57.00	
CAN	19.09	286	eP	12	35.10	1.6
			eTT	28	33.00	
BWA	19.96	287	eP	12	42.60	-0.6
			eTT	29	28.20	
ARMA	20.24	301	eP	12	50.20	4.0X
	1.1s		10.00nm			4.1mb
TOO	20.63	276	eP	12	54.10	3.9X
	1.0s		30.00nm			4.6mb
			e(TT)	30	13.50	
BRS	21.74	309	iPc	13	07.00	5.5X
	1.3s		3.00nm			3.6mb
CTA	31.15	309	iPd	14	37.00	7.9X
	0.8s		5.60nm			4.5mb
ASPA	36.52	289	eP	15	16.70	1.2
	1.3s		7.20nm			4.4mb
WB2	38.73	294	eP	15	33.70	-0.3
	0.6s		5.60nm			4.5mb
WRA	38.73	294	P	15	34.70	0.7
	0.7s		1.90nm			3.9mb
YKA	120.28	31	ePKP	27	01.30	1.8
	0.5s		0.20nm			
OBN	148.60	309	ePKP	28	03.00	11.2X
	2.0s		80.00nm			
			e	28	34.00	
KAF	151.93	325	ePKP	28	03.40	6.8X
	0.8s		4.10nm			
NSD	152.90	335	ePKP	28	04.20	6.3X
	0.4s		0.70nm			
NUR	153.37	323	ePKP	28	10.80	12.1X
S.D. = 1.0			on	44	of	55 obs.

MAY 10, 1993 17h 28m 23.89± 0.44s
26.348 S ± 4.1km 27.396 E ± 5.4km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 3.7 (PRE). mbLg 3 B (BUL).

PRY	0.58	173	iPc	28	35.50	-0.1
			S	28	40.60	
KSR	0.66	317	eP	28	37.90	0.8
			S	28	46.00	
BFS	0.77	225	iPc	28	39.70	0.2
			S	28	49.10	
SLR	1.00	53	iPc	28	43.70	0.2
			S	28	56.00	
SEK	1.98	174	iPc	28	59.50	1.0
			S	29	25.00	
SWZ	2 03	245	eP	28	59.90	0.6
			S	29	25.00	
BFT	2.47	75	iPd	29	06.00	0.3
			S	29	35.00	
BLF	2.95	201	eP	29	12.00	-0.4
			S	29	46.00	
FRS	3.85	208	eP	29	24.20	-0.9
			S	30	07.20	
BUL	6.28	11	iPnd	29	59.00	-0.6
			iSn	31	07.30	
			iSg	31	40.50	
CIR	6.55	37	iPn	29	58.50	-4.8X
			iSn	31	08.50	
			iSg	31	38.50	
GRM	6.98	186	eP	30	06.50	-2.8X
			S	31	20.00	
POF	7.25	244	e(P)	30	11.00	-2.1X
			S	31	32.00	
SUR	8.31	222	eP	30	36.50	8.3X
			S	32	05.00	
CER	9.91	223	eP	30	45.50	-4.6X
			S	32	30.50	
TUH	9.96	224	e(P)	30	34.00	-16.7X
			e	32	59.00	
WIN	10.11	290	eP	30	50.00	-2.9X
			S	32	37.00	
MTD	10.29	23	iPnc	30	51.70	-3.6X
			iSn	32	41.50	
			iSg	33	35.80	
KIC	45.04	312	P	36	42.00	-0.6
TIC	45.43	312	P	36	45.30	-0.5
S.D. = 0.7			on	12	of	20 obs.

? MAY 10, 1993 17h 38m 27.07± 5.39s
30.349 S ±43.2km 68.874 W ±27.2km
DEPTH = 33.0km (normal)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	1.04	160	iPc	38	46.80	1.4
			S	38	58.50	
RTCB	1.14	177	iPd	38	47.00	0.2
			S	38	59.50	
CFA	1.37	157	iPc	38	48.50	-1.6
			S	39	01.70	
RTBS	1.40	201	e(P)d	38	50.30	-0.2
MRA	3.40	12B	ePd	39	15.10	-4.0X
TCA	3.81	106	ePd	39	25.00	0.0
			S	40	05.50	
S.D. = 1.5			on	5	of	6 obs.

MAY 10, 1993 18h 30m 17.09± 0.46s
38.131 N ± 5.1km 14.132 E ± 4.2km
DEPTH = 10.0km (geophysicist)
SICILY (398)

GIB	0.16	210	Pd	30	19.60	-1.3
			eSg	30	23.00	
MNO	0.49	114	P	30	26.30	-0.7
			eSg	30	33.80	
FAI	0.93	203	P	30	37.10	2.3
			eSg	30	43.20	
ATN	1.05	88	P	30	36.90	0.0
			eSg	30	51.00	
CVT	1.15	247	P	30	39.20	0.6
			eSn	30	53.00	
MEU	1.21	148	P	30	37.90	-1.8
			eSg	30	54.30	
ERC	1.22	266	P	30	40.90	1.0
LVI	1.42	265	P	30	44.00	1.0
SOI	1.52	92	P	30	44.60	0.3
CZI	1.91	55	P	30	49.60	-0.3
MGR	2.29	28	P	30	55.70	0.2
TDS	2.30	48	P	30	56.20	0.6
CSI	2.35	45	P	30	57.00	0.6
ROI	2.39	52	P	30	57.40	0.5
SGO	2.59	20	P	31	01.20	1.5
PGF	5.90	320	Pn	31	47.50	0.8
			Sn	32	55.30	
SBF	7.64	321	Pn	32	10.30	-0.9
LMR	7.78	314	Pn	32	11.10	-1.9
FRF	7.85	316	Pn	32	12.80	-1.2
LRG	7.94	315	Pn	32	13.70	-1.5
S.D. = 1.2			on	20	of	20 obs.

MAY 10, 1993 19h 19m 46.42± 0.45s
44.324 N ± 3.0km 7.333 E ± 4.8km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.9 (GEN).

STV	0.08	184	P	19	49.61	0.6
			S	19	51.30	
ENR	0.12	147	P	19	50.02	0.6
			S	19	52.08	
PZZ	0.25	31B	P	19	52.49	0.8
			S	19	56.56	
TOUF	0.32	191	Pg	19	52.60	-0.5
			Sg	19	57.02	
AUTN	0.34	168	Pg	19	53.06	-0.4
			Sg	19	57.24	
SAOF	0.37	155	Pg	19	54.64	0.5
			Sg	19	58.39	
ROB	0.39	94	P	19	54.73	0.4
			S	20	00.50	
AURF	0.44	181	Pg	19	54.79	-0.6
			Sg	20	00.27	
SBF	0.47	171	Pg	19	56.18	0.3
			Sg	20	01.44	
BHB	0.52	355	P	19	56.06	-0.9
			S	20	03.34	
IMI	0.58	136	P	19	57.34	-0.8
			S	20	04.57	
FIN	0.64	100	P	19	58.83	-0.4
			S	20	07.07	
RSP	0.83	356	P	20	02.49	-0.1
			S	20	13.29	
PCP	0.90	75	P	20	04.14	0.5
			S	20	15.26	
S.D. = 0.6			on	14	of	14 obs.

MAY 10, 1993 19h 24m 45.76± 0.93s
15.650 N ± 4.0km 60.544 W ± 9.1km
DEPTH = 10.0km (geophysicist)
LEEWARD ISLANDS (92)
ML 3.3 (FDF). MD 3.5 (TRN).

MGG	0.79	290	ePc	25	01.50	0.4
DEG	0.82	323	ePc	25	01.55	-0.2
SFG	0.87	314	ePc	25	02.40	0.0
MDN	0.89	248	eP	25	03.24	0.4

10d 19h

DPMT	0.90	244	eP	25 03.31	0.3
			eS	25 14.54	
CRM	0.96	202	iPd	25 03.78	-0.3
			S	25 15.60	
FDF	1 08	213	iPd	25 05.84	-0.3
			S	25 19.10	
DOG	1.10	290	eP	25 06.14	-0.3
MVM	1.14	197	iPd	25 06.83	-0.3
			S	25 21.30	
PAG	1.16	289	ePc	25 06.90	-0.5
			S	25 21.00	
BIM	1.24	204	iPd	25 08.16	-0.6
			S	25 24.10	
SLW	1.66	193	eP	25 14.46	-0.7
			eS	25 34.39	
BPA	1.87	318	eP	25 18.00	-0.2
SLB	1.88	195	eP	25 17.90	-0.3
			eS	25 40.41	
MGH	1.93	304	eP	25 19.50	0.6
			S	25 43.30	
SOA	2.34	195	eP	25 26.42	1.6
			eS	25 53.63	
SVV	2.41	196	eP	25 26.12	0.3
SVB	2.46	196	eP	25 27.02	0.4
			eS	25 55.96	
GRW	3.64	197	eP	25 43.22	-0.1

S.D. = 0.6 on 19 of 19 obs.

? MAY 10, 1993 19h 28m 14.41± 3.06s
3.555 S ±79.8km 103.409 E ±86.7km
DEPTH = 160.4 ± 19.0 km
4.5mb (6 obs.)
SOUTHERN SUMATERA, INDONESIA (274)

LEM	5.30	128	ePc	29 33.00	0.0
WRA	34.28	121	P	34 48.00	0.6
	0.5s		1.00nm	3.8mb	
WB2	34.29	121	iPc	34 46.80	-0.6
	0.4s		5.70nm	4.6mb	
PKI	35.48	332	P	34 56.20	-1.6
GUN	35.55	333	P	34 58.60	0.2
ASPA	35.59	127	iPc	34 58.40	-0.1
	0.3s		8.90nm	5.0mb	
DMN	35.66	331	P	35 00.00	0.8
KKN	35.73	332	P	34 59.80	0.1
GKN	36.21	331	P	35 04.00	0.3
KAF	87.11	333	iP	40 43.70	0.8
	0.6s		3.10nm	4.4mb	
NUR	87.55	331	eP	40 44.20	-0.8
	0.6s		3.20nm	4.4mb	
APO	92.81	330	ePKP	41 09.60	0.1
	0.4s		1.10nm	4.4mb	

S.D. = 0.8 on 12 of 12 obs.

? MAY 10, 1993 19h 38m 27.43± 2.38s
28.974 N ±23.0km 52.431 E ±35.4km
DEPTH = 33.0km (normal)
4.4mb (5 obs.)
SOUTHERN IRAN (353)

RYD	6.71	232	eP	40 06.50	0.3
KER	7.02	321	eP	40 47.00	36.3X
MJMA	7.07	246	eP	40 11.00	-0.3
MAIO	9.42	37	eP	41 05.00	21.0X
NUR	36.64	337	eP	45 31.90	-0.5
	0.4s		5.30nm	4.8mb	
KAF	37.32	340	eP	45 38.90	0.8
	0.4s		1.60nm	4.2mb	
HFS	40.60	331	eP	46 05.40	0.1
	0.4s		7.80nm	4.8mb	
NB2	42.12	331	P	46 17.70	-0.2
	0.5s		2.30nm	4.2mb	
YKA	88.26	354	eP	51 16.10	-0.3
	0.8s		0.70nm	4.0mb	

S.D. = 0.5 on 7 of 9 obs.

% MAY 10, 1993 19h 56m 09.19± 0.76s
26.396 S ± 6.0km 27.402 E ± 8.5km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.6 (PRE).

PRY	0.53	173	eP	56 20.30	0.4
			S	56 25.90	
KSR	0.70	319	eP	56 23.50	0.4
			S	56 32.00	
SLR	1.03	50	eP	56 29.00	-0.2
			S	56 41.50	
SEK	1.93	174	eP	56 44.00	0.8
			S	57 06.50	
BFT	2.48	74	eP	56 51.00	-0.1
			S	57 20.00	
BLF	2.91	201	eP	56 55.90	-1.3

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

MAY 10, 1993 20h 24m 42.88± 0.69s
20.724 S ± 6.5km 68.902 W ± 9.4km
DEPTH = 133.8 ± 9.8 km
4.1mb (1 obs.)
CHILE-BOLIVIA BORDER REGION (124)

ANT	3.28	205	eP	25 33.50	-0.4
			iS	26 20.70	
YJA	3.48	115	ePc	25 37.50	0.5
CNCB	3.99	13	P	25 44.90	1.0
CCH	4.23	39	P	25 46.10	-0.8
LPB	4.24	10	P	25 48.20	1.1
ZOBO	4.49	10	P	25 50.00	-0.7
ARE	4.90	329	eP	25 55.00	-0.9
			eS	26 50.00	
SLA	5.08	142	ePc	25 58.90	0.7
SIV	8.80	59	iPc	26 57.40	9.0X
PPD	16.44	98	eP	28 27.10	0.0
CACB	20.69	97	eP	29 12.70	-1.6
			e	29 16.40	
			e	29 19.00	
JAQ	74.45	356	eP	36 08.00	0.3
FCC	81.88	347	eP	36 53.00	4.9X
YKA	90.46	341	eP	37 30.90	0.9
	0.7s		1.30nm	4.1mb	
WRA	133.62	211	PKP	43 48.80	2.9X
	0.6s		0.70nm		

S.D. = 1.0 on 12 of 15 obs.

MAY 10, 1993 21h 02m 45.97± 0.54s
42.466 N ± 4.8km 19.744 E ± 4.6km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 2.4 (TTG), 2.3 (TIR).

PVY	0.21	53	iPgc	02 49.53	-1.1
			iSg	02 53.30	
TTG	0.36	264	iPgc	02 52.77	-0.6
			iSg	02 59.74	
IVA	0.42	16	iPgc	02 54.41	-0 2
			iSg	03 01.12	
SDA	0.45	204	iPgc	03 06.60	11.4X
			iSg	03 13.60	
ULC	0.62	216	iPgc	02 56.77	-1.7
			iSg	03 06.23	
NKY	0.65	302	iPgc	02 59.33	0.3
			iSg	03 10.24	
BDV	0.70	255	iPgd	02 59.50	-0.4
			iSg	03 10.73	
LACI	0.83	182	ePg	03 03.50	1.5
			iSg	03 10.50	
PLE	0.90	344	iPgc	03 03.80	0.5
			iSg	03 17.97	
HCY	0.92	269	iPgc	03 03.91	0.3
			iSg	03 18.63	
PHP	0.94	146	ePg	03 03.70	-0.2
BRY	0.99	297	iPgd	03 05.63	0.9
			iSg	03 21.23	
SKO	1.35	111	ePg	03 11.60	0.8
			iSg	03 27.30	
			Lg	03 30.00	

S.D. = 1.0 on 12 of 13 obs.

• MAY 10, 1993 21h 08m 56.19± 0.90s
7.867 N ±19.2km 76.297 W ±10.5km
DEPTH = 115.1 ± 21.8 km
3.8mb (1 obs.)
NORTHERN COLOMBIA (99)

UPA	3.39	289	eP	09 47.04	-1.2
FUQ	3.48	133	iP	09 50.00	0.1
ECO	3.67	294	iP	09 53.42	1.2
			eS	10 32.54	
BOG	3.91	145	e(P)	10 00.00	4.3X
			eS	10 46.00	
SDV	5.69	79	ePn	10 27.30	7.3X
TOV	6.71	73	eP	10 33.60	-0.1
ZOBO	25.31	161	P	14 15.10	0.6
LPB	25.56	162	P	14 16.00	-0.6
YKA	61.22	341	eP	19 10.50	9.6X
	0.7s		0.70nm	3.8mb	

S.D. = 1.4 on 6 of 9 obs.

% MAY 10, 1993 21h 29m 51.71± 0.74s
40.343 N ± 7.8km 27.614 E ± 5.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

EDC	0.19	89	iPg	29 56.00	0.1
			iSg	29 59.00	
BNT	0.23	87	iPg	29 56.50	-0.2
			iSg	29 59.50	
MFT	0.51	330	iPg	30 01.50	-0.6
			eSg	30 08.00	
KCT	0.58	99	iPg	30 02.50	-0.9
			eSg	30 10.50	
CTT	1.01	37	iPn	30 11.50	0.6
EZN	1.12	243	iPn	30 12.90	0.3
ISK	1.31	56	ePn	30 16.00	0.0
YLV	1.36	80	ePn	30 17.50	0.7

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

MAY 10, 1993 21h 42m 07.58± 0.42s
44.902 N ± 3.2km 7.343 E ± 4.9km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.4 (GEN), 2.4 (LDG).

BHB	0.08	223	Pd	42 09.52	-0.6
			S	42 10.76	
RSP	0.26	346	P	42 12.65	-0.4
			S	42 16.73	
RRL	0.40	273	Pd	42 14.76	-1.0
			S	42 20.10	
DOI	0.40	190	P	42 16.00	0.1
			eSg	42 21.00	
PZZ	0.43	204	Pc	42 15.85	-0.6
			S	42 21.84	
LSD	0.57	347	P	42 18.61	-0.7
			S	42 26.00	
STV	0.66	181	P	42 19.69	-1.1
			S	42 27.88	
ENR	0.68	175	Pc	42 19.97	-1.1
			S	42 29.02	
ROB	0.71	148	P	42 21.65	0.0
			S	42 31.22	
LPG	0.73	325	Pg	42 21.50	-0.6
			Sg	42 30.30	
LPL	0.75	325	Pg	42 22.00	-0.4
			Sg	42 31.20	
FIN	0.93	138	P	42 25.71	0.4
			S	42 37.59	
PCP	0.93	112	P	42 25.68	0.3
			S	42 37.35	
SBF	1.04	176	Pg	42 27.30	0.0
			Sg	42 41.00	
IMI	1.07	158	P	42 27.38	-0.3
			S	42 40.28	
FRF	1.43	201	Pg	42 34.50	0.9
			Sg	42 53.00	
LRG	1.61	206	Pg	42 36.80	0.7
			Sg	42 59.00	
LMR	1.6B	201	Pg	42 38.60	1.5
			Sg	42 59.80	
SMF	3.01	307	Pn	42 56.80	0.7
LBF	3.14	313	Pn	42 59.50	1.5
BGF	3.56	299	Pn	43 04.90	0.9

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

% MAY 10, 1993 22h 57m 48.98± 0.78s
26.419 S ± 6.1km 27.423 E ± 8.8km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.3 (PRE).

PRY	0.51	175	eP	57 58.60	-0.6
			S	58 05.00	
KSR	0.73	319	eP	58 03.70	0.2
			S	58 13.50	
SLR	1.03	49	eP	58 08.50	-0.5
			S	58 21.00	
SEK	1.91	175	eP	58 24.00	1.4
			S	58 47.50	
BFT	2.47	73	eP	58 31.00	0.3
			S	59 00.50	

BLF	2.89	202	eP	58	36.00	-0.7
			S	59	10.00	
S.D. = 1.0 on 6 of 6 obs.						

? MAY 10, 1993 23h 17m 22.50±11.50s
36.313 N ±90.4km 14.245 E ±20.4km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MEU	0.96	35	P	17	40.50	-0.3
			eSg	17	48.00	
FAI	1.06	335	P	17	41.60	-0.9
			eSg	17	55.40	
MNO	1.65	12	P	17	52.40	0.5
GIB	1.68	354	P	17	53.20	1.0
ATN	2.08	27	P	17	57.00	-0.9
SOI	2.27	39	P	18	00.80	0.2
S.D. = 1.0 on 6 of 6 obs.						

? MAY 10, 1993 23h 25m 10.61± 2.37s
18.041 N ±59.0km 63.543 W ±21.7km
DEPTH = 70.0km (geophysicist)
LEEWARD ISLANDS (92)

BPA	1.89	121	eP	25	42.00	0.7
			S	26	05.00	
LPR	2.23	277	P	25	46.30	0.2
CPD	2.26	270	P	25	46.80	0.4
SJG	2.48	272	iP	25	49.90	0.3
CLLP	2.89	271	P	25	55.00	-0.2
DEG	2.93	126	eP	25	55.00	-0.9
PORP	2.94	271	P	25	55.90	-0.1
MGG	3.00	134	eP	25	57.00	0.2
LRS	3.15	275	P	25	58.30	-0.6
S.D. = 0.6 on 9 of 9 obs.						

MAY 10, 1993 23h 51m 53.88± 0.42s
44.166 N ± 3.1km 6.907 W ± 3.9km
DEPTH = 22.2 ± 5.0 km
3.3mb (1 obs.)
NORTH ATLANTIC OCEAN (402)
ML 3.8 (LDG). mbLg 3.5 (MDD).

STS	1.75	224	iPnd	52	22.60	-0.7
			eSn	52	43.50	
ERUA	1.78	186	iPnd	52	23.90	0.2
			eSn	52	44.70	
ECRI	3.56	114	ePn	52	50.50	1.3
			eSn	53	31.50	
GUD	4.07	149	iPnc	52	56.70	0.3
			eSn	53	41.60	
EPLA	4.14	171	ePn	52	57.00	-0.4
			eSn	53	43.50	
ETOR	4.90	131	ePn	53	08.00	-0.2
			eSn	54	03.00	
EGRA	5.21	110	ePn	53	19.90	7.6X
			eSn	54	22.00	
MFF	5.35	61	Pn	53	14.80	0.4
			Sn	54	11.70	
EPF	5.38	100	Pn	53	15.60	0.6
			Sn	54	14.00	
LFF	5.52	79	Pn	53	17.30	0.5
			Sn	54	17.00	
LPF	5.62	44	Pn	53	18.90	0.7
			Sn	54	18.00	
LPO	5.82	82	Pn	53	21.40	0.4
			Sn	54	23.30	
GRR	5.95	43	Pn	53	22.70	-0.1
			Sn	54	26.00	
RJF	6.11	76	Pn	53	24.80	-0.3
			Sn	54	30.50	
LSF	6.31	68	Pn	53	28.40	0.4
			Sn	54	34.70	
EROO	6.36	119	ePn	53	28.90	0.3
			eSn	54	39.50	
FLN	6.39	42	Pn	53	28.90	-0.1
			Sn	54	36.80	
EVIA	6.44	148	ePn	53	29.80	-0 1
			eSn	54	39.00	
LDF	6.45	44	Pn	53	30.10	0.2
			Sn	54	38.30	
CAF	6.46	80	Pn	53	29.90	-0.2
			Sn	54	37.30	
TCF	6.78	69	Pn	53	35.00	0.4
			Sn	54	45.60	
MAF	7.00	70	Pn	53	37.30	-0.4
			Sn	54	50.20	
BGF	7.27	67	Pn	53	41.20	-0.3
			Sn	54	57.60	
HYF	7.37	62	Pn	53	43.30	0.5
			Sn	55	00.20	
AVF	7.67	66	Pn	53	46.50	-0.6
			Sn	55	06.30	
SSF	7.85	65	Pn	53	49.10	-0.5
			Sn	55	10.30	
SMF	7.96	68	Pn	53	50.90	-0.2
			Sn	55	14.60	
ECP	8.03	2	eP	53	51.90	0.0
			eS	55	15.00	
LBF	8.14	66	Pn	53	53.20	-0.4
			Sn	55	17.70	
LOR	8.15	64	Pn	53	53.40	-0.3
			Sn	55	17.10	
ECB	8.21	1	eP	53	54.30	-0.2
			eS	55	19.00	
ETA	8.55	3	eP	53	59.40	0.2
DLF	9.14	1	eP	54	08.00	0.6
HAU	9.98	63	Pn	54	16.90	-2.1
			Sn	56	00.90	
YKA	59.11	329	eP	01	55.00	0.5
	0.8s		0.20nm		3.3mb	
S.D. = 0.6 on 34 of 35 obs.						

MAY 11, 1993 00h 35m 12.66± 0.72s
45.038 N ± 6.1km 3.018 E ± 5.1km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.9 (STR), 2.7 (LDG).

LBL	0.25	40	Pg	35	18.49	0.4
			Sg	35	21.65	
COLF	0.68	45	Pg	35	26.09	0.0
CAF	0.69	261	Pg	35	26.50	0.2
			Sg	35	36.60	
PYM	0.71	359	Pg	35	26.71	0.0
			Sg	35	35.37	
AGO	1.02	4	Pg	35	32.37	0.5
			Sg	35	45.12	
PLDF	1.02	24	Pg	35	32.56	0.5
			Sg	35	45.27	
RJF	1.09	285	Pn	35	33.70	0.5
			Pg	35	34.60	
			Sg	35	47.90	
MAF	1.22	345	Pg	35	36.10	0.6
			Sg	35	51.00	
TCF	1.37	336	Pn	35	37.40	-0.4
			Pg	35	39.00	
			Sg	35	55.10	
BGF	1.52	356	Pn	35	39.50	-0.5
			Pg	35	42.00	
			Sg	36	00.20	
LSF	1.60	320	Pn	35	40.60	-0.4
			Pg	35	43.10	
			Sn	36	00.50	
			Sg	36	02.70	
LFF	1.62	267	Pn	35	41.60	0.3
			Pg	35	43.90	
			Sg	36	04.90	
SMF	1.71	19	Pn	35	42.40	-0.2
			Pg	35	44.80	
			Sg	36	05.80	
AVF	1.77	7	Pn	35	42.50	-1.0
			Pg	35	45.60	
			Sg	36	07.20	
SSF	2.05	9	Pg	35	51.70	4.1X
			Sg	36	16.40	
LBF	2.06	19	Pg	35	50.50	2.8X
			Sg	36	16.30	
LOR	2 31	14	Pg	35	56.10	4.8X
			Sg	36	24.00	
MFF	2.71	306	Pn	35	56.80	-0.2
			Pg	36	03.30	
			Sg	36	38.40	
EPF	2.79	225	Pn	35	57.90	-0.3
			Pg	36	06.80	
			Sn	36	29.10	
			Sg	36	43.30	
S.D. = 0.5 on 16 of 19 obs.						

& MAY 11, 1993 01h 00m 47.13s
63.277 N 148.162 W
DEPTH = 83.7km
CENTRAL ALASKA (1)
<AEIC>.

RND	0.34	293	iP	01	00.18	-0.2
			eS	01	09.75	
MCK	0.57	323	iP	01	01.96	-0.1
			eS	01	13.22	
HUR	0.73	247	iP	01	03.11	-0.6
			eS	01	15.23	
TRF	0.97	281	iP	01	06.78	0.2
			eS	01	21.70	
THY	1.10	82	iP	01	08.01	0.1
WRH	1.20	1	iP	01	08.75	-0.4
			S	01	24.48	
HDA	1.25	25	iP	01	09.43	-0.4
			eS	01	25.56	
PAX	1.26	103	iP	01	09.61	-0.4
			eS	01	26.85	
NEA	1.37	343	iP	01	10.78	-0.5
			eS	01	28.52	
CCB	1.38	6	iP	01	10.94	-0.5
			eS	01	28.51	
SDG	1.42	121	iP	01	11.61	-0.3
			eS	01	31.06	
SML	1.48	183	iP	01	12.13	-0.6
			S	01	31.76	
SCM	1.50	165	iP	01	12.41	-0.7
			eS	01	33.24	
GHO	1.55	194	iP	01	13.41	-0.3
			S	01	33.58	
FBA	1.64	6	iP	01	14.45	-0.3
			eS	01	34.10	
MDM	1.69	359	iP	01	15.23	-0.3
			eS	01	35.09	
PLRM	1.75	195	eP	01	16.61	0.3
GLM	1.75	11	iP	01	15.84	-0.5
PWA	1.82	207	eP	01	17.62	0.5
SKT	2.03	232	iP	01	19.75	-0.3
KLU	2.07	149	iP	01	19.66	-1.1
MLY	2.09	328	iP	01	20.73	-0.2
PMS	2.14	198	eP	01	22.69	1.0
SUA	2.18	215	eP	01	22.95	0.7
PTE	2.46	190	eP	01	25.50	-0.3
CPAM	2.75	224	eP	01	30.60	0.5
CP2	2.78	225	eP	01	31.44	0.9
SPU	2.78	223	eP	01	31.48	1.0
CKN	2.79	224	eP	01	32.71	2.2
CKT	2.81	224	eP	01	31.28	0.4
BGL	2.83	226	eP	01	30.38	-0.7
MPA	2.86	192	eP	01	31.90	0.5
CKL	2 86	225	eP	01	32.60	1.0
SLKM	2 95	200	eP	01	32.50	-0.2
HIN	3.00	164	eP	01	31.47	-1.9
SGAM	3.12	152	eP	01	33.22	-1.8
DFR	3 44	220	eP	01	40.53	1.0
37 obs. associoted						

% MAY 11, 1993 01h 04m 44.69± 1.21s
37.923 N ±12.0km 14.093 E ± 9.5km
DEPTH = 10.0km (geophysicist)
SICILY (398)

GIB	0.08	322	P	04	47.20	-0.1
			eSg	04	49.20	
MNO	0.48	89	P	04	54.00	-0.4
			eSg	05	02.00	
FAI	0.73	207	P	05	04.50	5.6X
MEU	1.06	141	P	05	04.60	-0.1
			eSg	05	24.30	
ATN	1.11	77	P	05	05.30	-0.2
SOI	1.56	84	P	05	13.20	0.8
CZI	2.06	50	P	05	24.60	4.9X
S.D. = 0.6 on 5 of 7 obs.						

? MAY 11, 1993 01h 33m 41.70± 5.31s
39.603 N ±38.6km 23.530 E ±15.1km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

PAIG	0.34	20	iPg	33	48.52	-0.3
			iSg	33	52.12	
OUR	0.81	25	ePg	33	56.88	-0.5
LIT	0.94	302	ePg	33	58.96	-0.7
THE	1.12	337	ePg	34	02.33	-0.3
			eSg	34	16.52	
SOH	1.22	354	ePg	34	04.28	-0.2
			eSg	34	19.96	
SRS	1.51	2	ePb	34	09.24	0.4
			iSb	34	30.20	
GRG	1.60	328	iPb	34	10.48	0.3

11d 01h

```
KNT      1.63 343 ePb    34 11.76    1.2
                  eSb    34 32.33
      S.D. = 0.7  on    8 of    8 obs.
-------------------------------------
*  MAY  11, 1993  02h 00m 19.77± 0.38s
   49.601 S ±12.0km  114.199 E ±13.2km
   DEPTH =  10.0km  (geophysicist)
   4.7mb (  5 obs.)  4.8Msz (  1 obs.)
 SOUTH OF AUSTRALIA                (437)

STK     27.05  59 eP     06 04.00    0.0
        0.5s      2.00nm          4.1mb
ASPA    30.15  38 eP     06 31.50   -0.5
        1.1s      7.60nm          4.4mb
MAW     30.99 216 P      06 38.70   -0.3
WRA     33.68  36 P      06 58.50   -4.4X
        0.8s      8.50nm          4.7mb
WRA     33.68  36 P      07 21.00   18.1X
        1.2s      1.60nm
WB2     33.68  36 iPc    07 01.00   -1.9
        0.6s     12.10nm          5.0mb
                  e      07 08.30
ARMA    34.01  70 eP     07 05.40   -0.5
NVL     47.91 206 eP     08 58.00   -1.4
PKI     80.99 334 PKP    12 35.60   -0.6
DMN     81.11 334 PKP    12 38.00    1.3
GUN     81.18 335 PKP    12 36.00   -1.2
KKN     81.24 334 PKP    12 36.60   -0.7
GKN     81.62 334 PKP    12 38.40   -0.8
LZH     85.81 352 Pc     13 02.50    2.2
        1.5s     32.00nm          5.3mb
                  pP     13 08.00   17kmX
BJI     89.28   2 eP     13 18.00    1.3
GEC2   130.42 301 PKP    19 30.50   -0.9
        1.3s      1.38nm
PMR    134.67  42 PKP    19 50.00   11.1X
     Z  21s       0.17um          4.8Msz
INK    142.81  35 ePKP   19 55.00    1.4
ARUT   144.16  91 ePKP   19 56.49   -0.6
MSU    145.40  91 ePKP   19 59.00   -0.3
                  ePKPab 20 00.80
                  i      20 05.86
DUG    145.89  88 ePKP   19 59.66   -0.3
                  ePKPab 20 01.68
                  e      20 06.70
DPW    145.97  72 ePKP   19 59.59   -0.1
                  iPKPab 20 01.11
                  e      20 05.86
MBC    146.08  20 ePKP   19 59.00    0.0
        1.0s      2.00nm
HVU    146.73  85 ePKP   20 02.56    1.3
                  e      20 08.98
SRU    146.80  91 ePKP   20 01.49    0.0
                  e      20 08.92
ALQ    146.98 101 ePKP   20 02.47    0.5
                  ePKPbc 20 04.44
DAG    147.26 342 ePKP   20 01.00    0.2
        0.9s      6.72nm
PV10   147.36  93 ePKP   20 03.66    1.2
                  ePKPbc 20 05.05
                  e      20 10.42
PV09   147.36  93 ePKP   20 03.88    1.3
                  ePKPbc 20 05.59
                  e      20 10.11
PV08   147.72  93 (PKP)  20 04.30    1.1
                  ePKPbc 20 06.22
LCCM   149.15  79 ePKP   20 09.50    4.5X
BW06   149.30  86 iPKP   20 09.28    3.8X
                  ePKPab 20 14.48
YKA    150.64  45 ePKP   20 04.90   -1.5
        0.8s      4.90nm
MEO    151.82 109 iPKPc  20 15.90    6.7X
     S.D. = 1.1  on   28 of   34 obs.
-------------------------------------
*  MAY  11, 1993  02h 07m 47.81± 1.43s
   38.527 N ± 8.3km   26.966 E ±15.2km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                        (365)
      ML 3.3 (ISK).

IZM      0.27 119 iPg    07 53.50    0.1
                  eSg    07 58.50
CIN      1.28 136 ePg    08 10.00   -1.5
                  iSg    08 28.00
EZN      1.39 339 iPn    08 12.60   -0.6
YER      1.74 143 iPn    08 20.00    1.7
EDC      1.95  21 ePn    08 22.00    0.8
BNT      1.97  22 ePn    08 21.00   -0.6
KHL      2.02  95 ePn    08 22.00   -0.4
KCT      2.03  32 ePn    08 22.90    0.5
YLV      2.76  42 ePn    08 33.00    0.0
      S.D. = 1.1  on   9 of   9 obs
-------------------------------------
%  MAY  11, 1993  02h 11m 53.45± 0.87s
   38.433 S ±11.3km  176.092 E ±10.4km
   DEPTH = 160.0km  (geophysicist)
 NORTH ISLAND, NEW ZEALAND         (159)

WHH      0.55 145 P      12 17.10    0.6
URZ      0.82  78 P      12 17.30   -0.7
                  S      12 35.70
NGZ      0.84 207 P      12 19.70    1.3
PAHZ     0.87 120 P      12 19.30    0.9
CNZ      0.88 209 P      12 19.90    1.3
MOZ      1.01 265 P      12 20.10    0.6
MOH      1.08 131 P      12 21.30    1.2
WAHZ     1.28 171 Pc     12 23.30    1.3
                  S      12 45.30
NOZ      1.54  98 P      12 24.60    0.2
MAHZ     1.59 119 P      12 26.10    1.1
TEHZ     1.65 160 P      12 26.70    1.0
PUZ      1.74  79 eP     12 25.30   -1.4
                  S      12 49.20
HBZ      1.93  65 P      12 27.20   -1.6
MNG      2.23 192 P      12 32.40    0.1
                  S      13 01.40
KIW      2.59 200 P      12 36.00   -0.6
MTW      2.76 189 P      12 37.70   -1.0
CAW      2.79 196 P      12 38.30   -0.7
BLW      2.97 189 P      12 40.30   -1.0
MRW      2.99 200 P      12 40.40   -1.2
                  eS     13 17.20
MOW      3.05 192 P      12 41.10   -1.3
KHZ      4.43 205 eP     12 58.30   -1.9X
      S.D. = 1.1  on  20 of  21 obs.
-------------------------------------
&  MAY  11, 1993  02h 36m 16 20s
   40.350 N            76.020 W
   DEPTH =   5.0km  (geophysicist)
 PENNSYLVANIA                      (473)
      <MACRO>. mbLg 2.0 (GS). Felt in
      the Reading area.

BWD      0.65 148 iPd    36 30.60    1.5
                  iS     36 39.20
NED      0.69 160 eP     36 30.50    0.5
                  iS     36 39.20
BVD      0.70 145 eP     36 31.10    0.9
                  iS     36 40.60
GPD      1.36  60 (P)    36 40.02   -1.8
                  eS     37 00.04
TBR      1.58  59 (P)    36 44.44   -0.5
                  eS     37 05.89
      5 obs. associated
-------------------------------------
&  MAY  11, 1993  02h 41m 47.60s
   40.350 N            76.020 W
   DEPTH =   5.0km  (geophysicist)
 PENNSYLVANIA                      (473)
      <MACRO>. mbLg 2.3 (GS). Felt (V)
      at Reading.

BWD      0.65 148 iPd    42 00.70    0.2
                  iS     42 09.80
NED      0.69 160 iPd    42 01.10   -0.3
                  iS     42 10.30
BVD      0.70 145 iPd    42 02.10    0.5
                  iS     42 11.60
GPD      1.36  60 eP     42 13.09   -0.1
                  eS     42 30.53
TBR      1.58  59 eP     42 15.81   -0.5
                  eS     42 37.57
PAL      1.73  67 eP     42 18.91    0.4
                  eS     42 42.72
      6 obs. associated
-------------------------------------
&  MAY  11, 1993  02h 42m 32.50s
   40.350 N            76.020 W
   DEPTH =   5.0km  (geophysicist)
 PENNSYLVANIA                      (473)
      <MACRO>. mbLg 1.6 (GS). Felt in
      the Reading orea.

BWD      0.65 148 eP     42 45.40    0.0
                  iS     42 53.80
NED      0.69 160 iP     42 46.20   -0.1
                  iS     42 54.90
BVD      0.70 145 iP     42 46.70    0.2
                  iS     42 55.50
      3 obs. associated
-------------------------------------
&  MAY  11, 1993  02h 43m 57.40s
   40.350 N            76.020 W
   DEPTH =   5.0km  (geophysicist)
 PENNSYLVANIA                      (473)
      <MACRO>. mbLg 2.2 (GS). Felt in
      the Reading area.

BWD      0.65 148 iPd    44 10.30    0.0
                  iS     44 20.10
NED      0.69 160 iPd    44 11.10   -0.1
                  iS     44 19.80
BVD      0.70 145 iPd    44 11.60    0.2
                  iS     44 20.40
GPD      1.36  60 eP     44 22.82   -0.2
                  eS     44 40.09
TBR      1.58  59 eP     44 26.05    0.0
                  eS     44 46.85
PAL      1.73  67 eP     44 28.94    0.6
      6 obs. associated
-------------------------------------
%  MAY  11, 1993  02h 51m 00.87± 0.59s
   38.030 S ± 7.6km  176.461 E ± 8.4km
   DEPTH = 150.0km  (geophysicist)
 NORTH ISLAND, NEW ZEALAND         (159)

TAZ      0.21 170 P      51 22.20    1.0
PATZ     0.39 204 P      51 23.10    1.2
URZ      0.56 114 Pc     51 22.30   -0.4
                  S      51 38.30
WLZ      0.70 283 P      51 24.60    1.0
                  eS     51 42.50
WHH      0.85 178 P      51 25.50    0.7
PAHZ     0.95 151 P      51 26.20    0.7
MOH      1.23 154 eP     51 28.70    0.8
NGZ      1.33 210 eP     51 30.10    1.0
NOZ      1.37 116 P      51 29.40    0.0
KUZ      1.41 335 Pd     51 29.00   -0.8
PUZ      1.42  92 P      51 28.70   -1.2
                  eS     51 49.30
HBZ      1.52  74 P      51 29.90   -1.0
TTH      1.54 169 P      51 32.20    1.1
MAHZ     1.60 137 P      51 32.20    0.3
WAHZ     1.67 183 P      51 33.20    0.6
TEHZ     1.98 172 eP     51 36.40    0.3
MNG      2.69 196 eP     51 44.10   -0.8
                  eS     52 17.70
KIW      3.07 202 eP     51 48.50   -1.2
CAW      3.26 199 P      51 50.60   -1.5
MRW      3.47 202 P      51 53.10   -1.8
WEL      3.50 201 eP     51 52.30   -3.0X
      S.D. = 1.0  on  20 of  21 obs.
-------------------------------------
   MAY  11, 1993  02h 51m 41.77± 0.44s
    2.345 N ± 7.3km   99.885 W ± 8.3km
   DEPTH =  10.0km  (geophysicist)
   5.0mb ( 22 obs.)  4.9Msz ( 20 obs.)
 WEST OF GALAPAGOS ISLANDS         (695)
      Mw 5.6 (HRV).
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 37S, 63C
      Centroid Location:
      Origin Time        02:51:49.2 0.3
      Lat  2.31N 0.04 Lon  99.66W 0.04
      Dep  15.0 FIX Half-duration  2.1
      Moment Tensor;   Scale 10**17 Nm
        Mrr=-0.37 0.07  Mtt= 2.34 0.07
        Mff=-1.97 0.10  Mrt= 0.44 0.26
        Mrf=-0.64 0.22  Mtf= 1.43 0.07
       Principal Axes:
        T  Val=  2.80  Plg= 4   Azm=344
        N       -0.15       72       87
        P       -2.65       18      252
      Best Double Couple:Mo=2.7*10**17
       NP1:Strike= 29 Dip=74 Slip=-170
       NP2:       297      81       -16

ECO     21.25  70 ePc    56 31.69    1.1
UPA     21.29  71 iPc    56 31.60    0.7
PSO     22.58  93 eP     56 46.00    1.7
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```
LTX     27.08 353 ePd   57 25.48  -1.2
SDV     29.81  76 eP    57 51.60  -0.1
TOV     30.80  75 eP    58 02.30   2.0
TUC     31.52 342 iP    58 06.51   0.1
        1.1s     23.58nm          5 0mb
     Z  19s      4.14um           5.1Msz
UYO     32.06   8 iPc   58 11.30   0.3
MEO     32.30   2 iPc   58 13.10   0.0
MIAR    32.57  10 eP    58 14.67  -0.8
        1.0s     22.42nm          5.1mb
     Z  19s      1.30um           4.6Msz
ALQ     33.00 350 eP    58 17.08  -2.4
        1.1s     13.82nm          4.8mb
OCO     33.09   4 iPc   58 23.30   3.4X
GLA     33.61 337 eP    58 24.27  -0.3
ARE     33.70 125 eP    58 28.00   2.2
OLY     33.90  12 eP    58 26.80  -0.2
GOGA    34.52  25 eP    58 33.01   0.7
        1.2s     12.18nm          4.7mb
     Z  20s      1.46um           4.7Msz
PLM     34.71 335 eP    58 33.81  -0.4
PEC     35.29 335 P     58 40.61   1.6
        2 1s     98.87nm          5.3mb
HBF     35.51  29 eP    58 39.00  -1.8
PRM     35.56  25 eP    58 40.70  -0.6
SGS     35.66  29 eP    58 43.04   1.0
SSK     35.80 334 eP    58 44.09   0.6
ELC     36.13  14 eP    58 46.14   0.1
GBTN    36.20  22 eP    58 47.09   0.4
JSC     36.21  27 eP    58 46.88   0.1
GSC     36.36 336 (P)   58 50.44   2.3
ZOBO    36.42 122 iPc   58 48.70  -0.7
        1.1s    101.51nm          5.6mb
     Z  24s      3.30um           5.0MszX
                  S     04 36.00
                  LR    07 10.00
FVM     36.51  13 eP    58 47.55  -1.7
        1.1s     31.47nm          5.0mb
     Z  20s      1.64um           4.8Msz
LPB     36.57 122 Pc    58 50.50   0.0
        1.0s    100.00nm          5 6mb
     Z  20s      4.61um           5 3Msz
                  LR    07 20.00
CNCB    36.80 122 P     58 52.20  -0.4
PV10    36.83 348 eP    58 51.47  -0.7
PV08    36.94 349 eP    58 53.49   0.2
PV09    36.96 348 eP    58 52.79  -0.6
SLM     37.18  13 P     59 00.00   5.2X
     Z  18s      0.54um           4 4Msz
ARUT    37.40 342 eP    58 58.06   1.1
GOL     37.52 353 eP    58 57.58  -0.4
        0 9s     17.68nm          4.8mb
     Z  19s      7.16um           5.5Msz
GLD     37.55 353 eP    58 58.85   0.7
        1.8s     95.26nm          5.3mb
     Z  19s      5.13um           5.3Msz
TPNV    37.59 338 (P)   59 01.33   2.8
     Z  19s      4.44um           5.3Msz
CEH     38.54  28 eP    59 05.72  -0.5
        0.8s     10.51nm          4.6mb
     Z  20s      1.26um           4.7Msz
CCH     38.63 122 P     59 08.30   0.6
SAO     39.61 332 P     59 30.00  14.8X
     Z  20s      4.16um           5.3Msz
COE     40.11 333 eP    59 20.74   1.3
ARN     40.12 333 eP    59 21.28   1.7
KVN     40.14 338 eP    59 21.46   1.7
CMB     40.19 335 eP    59 21.52   1.5
        1 0s     9.53nm           4.4mb
     Z  20s      1.90um           4.9Msz
CVL     40.54  26 eP    59 21.10  -1.8
HVU     40.93 345 eP    59 26.43   0.2
BW06    41.17 349 ePc   59 27.30  -1.0
        1 0s     27.12nm          4.9mb
MCWV    41.37  24 P     59 40.00  10.3X
     Z  21s      1.43um           4.8Msz
YJA     41.49 128 ePd   59 30.60  -0.8
RSSD    41.76 356 eP    59 32.61  -0.5
        1 0s     42.60nm          5.1mb
     Z  22s      2.53um           5.1Msz
ORV     41.93 335 eP    59 34.82   0.5
SIV     42.47 117 eP    59 47.00   8.0X
                  i     59 51.60
WDC     43.23 335 P     59 50.00   5.1X
     Z  19s      1.30um           4.9Msz
LBFM    43 59 336 eP    59 47.66  -0.4
LGPM    43.63 335 eP    59 48.74   0.5

LCCM    44.57 348 eP    59 56.50   0.6
CYA     44.81 136 ePd   59 55.30  -2.6
TBR     45.02  28 eP    59 59.25  -0.1
HRV     47.33  29 P     00 30.00  12.4X
     Z  19s      0.61um           4.6Msz
TCA     47.41 138 ePd   00 16.30  -2.2
EEO     47.70  19 eP    00 24.50   4.0X
ULM     47.85   3 eP    00 23.00   1.4
DPW     48.03 343 eP    00 21.57  -1.6
NEW     48.09 345 eP    00 21.92  -1.7
        0.9s     17.86nm          5.2mb
     Z  21s      7.69um           5.6Msz
LON     48.17 340 eP    00 23.57  -0.7
GAC     48.19  23 eP    00 26.00   1.7
PGC     50.37 340 eP    00 41.00   0.0
CBM     52.28  27 P     01 00.00   4.5X
     Z  21s      0.62um           4.6Msz
LMN     53.09  30 eP    01 06.00   4.4X
PPD     53.25 120 eP    01 02.30  -0.9
JAO     55.01  17 eP    01 14.50  -1.1
FCC     56.44   4 eP    01 29.00   3.2X
HON     59.55 293 P     02 00.00  11.8X
     Z  20s      0.24um           4.3Msz
YKA     61.01 352 eP    01 54.00  -3.5X
        1.0s     11.10nm          4.9mb
FRB     65.42  15 eP    02 25.50  -1.1
        1.0s      7.00nm          4.8mb
KLU     68.38 338 eP    02 43.76  -1.8
SLKM    69.46 336 eP    02 50.40  -1.8
PMR     69.66 337 eP    02 53.04  -0.2
        1.3s     26.90nm          5.2mb
     Z  19s      0.66um           4.9Msz
INK     69.70 347 eP    02 53.00  -0.4
        1.0s     10.00nm          4.9mb
CRP     70.67 336 eP    02 58.43  -1.3
FBA     71.19 340 eP    03 00.98  -1.6
        1.2s      6.62nm          4.6mb
MBC     74.64 355 eP    03 22.00  -0.6
        1.0s      9.00nm          4.8mb
DAG     85.69  13 eP    04 22.00   0.3
SPA     92.33 180 eP    04 55.90   2.4
        1.1s      6.55nm          4.9mb
ASPA   123.88 243 iPKPd 10 42.90   0.3
        0.9s      5.50nm
WB2    124.27 247 ePKP  10 41.40  -2.0
        0.7s      2.90nm
WRA    124.28 247 PKP   10 43.20  -0.3
        0.7s      1.30nm
GUN    149.41 350 PKP   11 31.60   2.3
GKN    149.52 352 PKP   11 31.60   2.4
KKN    149.63 351 PKP   11 33.80   4.4X
PKI    149.82 351 PKP   11 32.80   2.9X
DMN    149.84 351 PKP   11 36.40   6.6X
      S.D. = 1.3  on  77 of  93 obs.
-----------------------------------------
&  MAY  11, 1993  02h 58m 54.93s
    62.183 N          150.449 W
    DEPTH =   9.8km
 CENTRAL ALASKA                    ( 1)
      <AEIC>. ML 2.5 (AEIC).

CUT      0.24  21 iP    59 00.14   0.2
                 eS    59 03.65
SKT      0.55 249 iP    59 05.54  -0.5
                 eS    59 14.43
PWA      0.60 153 P     59 06.80  -0.2
SUA      0.74 191 eP    59 09.26  -0.2
                 eS    59 20.57
GHO      0.83 119 eP    59 09.77  -1.3
                 eS    59 21.71
PLRM     0 86 133 iP    59 10.66  -0.8
                 eS    59 22.83
PMR      0.86 133 eP    59 10.31  -1.2
HUR      0.88  25 iP    59 10.77  -1.1
PMS      1 03 155 P     59 13.80  -0.7
                 S     59 27.90
SML      1.07 110 iP    59 13.89  -1.2
                 eS    59 28.39
CGLM     1.15 221 eP    59 16.48   0.0
CRP      1.23 222 eP    59 16.79  -1.1
                 eS    59 33.29
CPAM     1.23 222 eP    59 17.37  -0.6
CP2      1.26 224 eP    59 17.38  -1.1
SPU      1.26 218 eP    59 17.29  -1.2
CKN      1.27 221 eP    59 18.41  -0.1
TRF      1.28   3 eP    59 17.71  -1.0
                 eS    59 34.54

CKT      1.29 221 eP    59 18.57  -0.4
BGL      1.31 226 eP    59 18.74  -0.4
CKL      1.34 223 eP    59 19.16  -0.5
RND      1.43  30 eP    59 19.73  -1.3
PTE      1.49 152 iP    59 22.02   0.3
NKA      1.49 195 eP    59 23.73   1.9
SCM      1.51 102 eP    59 20.76  -1.4
SLKM     1.68 176 eP    59 23.62  -1.0
MCK      1.70  23 eP    59 24.09  -0.8
MPA      1.78 162 eP    59 26.39   0.5
DFR      1.93 215 eP    59 28.34   0.2
NCT      2.02 217 eP    59 29.75   0.2
RSO      2.05 214 (P)   59 29.17  -0.9
                 eS    59 57.31
VLZ      2.23 116 eP    59 32.87   0.4
KLU      2.26 106 eP    59 32.57  -0.4
SDG      2.31  79 iP    59 33.16  -0.6
TZL      2.37  91 eP    59 34.51   0.1
PAX      2.44  69 eP    59 35.18  -0.3
WRH      2.53  24 eP    59 35.12  -1.6
HIN      2.62 132 eP    59 37.58  -0.4
TTA      2.68 289 eP    59 42.06   3.0
CNPM     2.69 189 eP    59 39.92   0.8
SVW      2.69 249 P     59 38.50  -0.6
HDA      2.73  34 eP    59 37.63  -2.0
CCB      2.74  25 eP    59 38.26  -1.5
FBA      2.98  22 eP    59 41.63  -1.4
GLB      3.24 100 iP    59 46.86   0.0
BALM     4.04 103 eP    59 57.17  -1.1
IMA      4.15 341 eP    59 56.95  -2.9
       46 obs. associoted
-----------------------------------------
?  MAY  11, 1993  03h 32m 49.31± 8.89s
    10.631 N ±38.6km   62.455 W ±73.6km
    DEPTH =  33.0km  (normal)
 NEAR COAST OF VENEZUELA           ( 97)
      MD 3.3 (TRN).

TCE      0.69  85 eP    33 03.06   0.4
                 eS    33 14.16
TRN      1.03  89 eP    33 07.02  -0.5
                 eS    33 22.71
TPP      1.04 107 eP    33 07.60   0.1
                 eS    33 23.33
GRW      1.71  27 eP    33 17.26   0.0
                 eS    33 40.46
      S.D. = 0.6  on   4 of   4 obs.
-----------------------------------------
   MAY  11, 1993  03h 44m 10.56± 0.41s
   14.516 N ± 6.4km   40.242 E ± 5.0km
   DEPTH =  25.2km  (  2 depth phases)
   4.5mb ( 17 obs.)  4.8Msz (  1 obs.)
 ETHIOPIA                          (55B)

DHJN     4.42  45 eP    45 19.33   1.4
ABHA     4.42  33 eP    45 17.33  -0.7
AAE      5.64 195 ePn   45 35.00  -0.3
PTJ     37.37 332 eP    51 23.90   0.9
SPC     38.27 339 eP    51 31.70   1.0
ZST     38.65 335 eP    51 33.60  -0.1
KBA     39.45 331 i(P)  51 41.60   1.0
WTTA    40.41 330 i(P)  51 49.30   0.8
        1.1s     14.50nm          4.6mb
                 i     51 57.30  27km
GEC2    40.59 333 Pd    51 50.20   0.3
        0.6s      3.52nm          4.2mb
                 e     51 52.50   8kmX
OBN     40.59 357 eP    51 44.00  -5.6X
                 e     51 51.00  24km
KHC     40.86 333 eP    51 52.00   0.0
                 e     52 24.00 144kmX
PRU     41.10 335 eP    51 54.80   0.9
LPG     41.83 324 eP    51 59.50  -0.8
        0.8s      2.70nm          4.0mb
LPL     41 85 324 eP    51 59.50  -0.9
        1.1s      6.10nm          4.2mb
BRG     42.03 335 e(P)  52 01.60   0.1
GRF     42.32 332 ePd   52 03.80  -0.1
        1.0s     11.00nm          4.5mb
CLL     42.75 335 eP    52 07.00  -0.4
        1.6s     14.00nm          4.4mb
MOX     42.84 333 eP    52 08.10   0.0
BSF     43.24 327 eP    52 11.50  -0.1
        1.1s     14.40nm          4.6mb
GKN     43.26  65 P     52 12.20   0.1
CDF     43.35 328 eP    52 12.30  -0.2
        1.0s      5.40nm          4.3mb
```

11d 03h

DMN	43.62	65	P	52	16.40	1.3
KKN	43.79	65	P	52	16.60	0.1
PKI	43.88	65	P	52	16.80	-0.5
LBF	44.26	325	eP	52	19.30	-0.5
	1.0s	11.80nm				4.7mb
GUN	44.34	65	P	52	20.20	-0.9
LOR	44.49	325	eP	52	21.10	-0.5
	1.0s	10.00nm				4.6mb
AVF	44.50	324	eP	52	21.10	-0.6
	0.8s	3.65nm				4.3mb
SSF	44.57	324	eP	52	21.70	-0.5
	0.7s	2.75nm				4.3mb
MAF	44.65	323	eP	52	22.90	0.0
BGF	44.67	323	eP	52	23.00	0.0
	0.9s	9.65nm				4.7mb
RJF	44.79	321	eP	52	24.10	0.0
KIC	44.91	264	P	52	26.60	1.2
LFF	45.08	320	eP	52	26.90	0.5
NUR	47.31	350	eP	52	44.00	0.3
	0.7s	5.80nm				4.7mb
UPP	48.22	345	eP	52	50.00	-0.9
HFS	49.51	343	eP	52	59.60	-1.3
	0.5s	1.30nm				4.2mb
NB2	50.97	342	P	53	11.10	-0.9
	0.9s	7.30nm				4.6mb
LZH	60.34	57	eP	54	19.00	-1.2
	1.5s	19.00nm				5.0mb
Z	22s	0.71um				4.8Msz
E	15s	0.34um				
BBP	77.45	72	ePc	56	00.50	-5.4X
MBC	88.59	355	eP	57	03.50	1.4
S.D. = 0.8		on	39 of	41	obs.	

& MAY 11, 1993 03h 45m 29.39s
36 824 N 121.598 W
DEPTH = 6.0km
CENTRAL CALIFORNIA (39)
<GM-P> MD 3.2 (GM).

COE	0.44	352	eP	45	38.40	0.2
ARN	0.53	6	eP	45	39.53	-0.4
MOP	0.89	133	P	45	45.99	-0.8
PRCM	0.97	125	P	45	45.88	-2.4
JEGM	0.98	315	eP	45	46.62	-1.7
PSAM	0.98	144	P	45	47.86	-0.5
PTV	1.00	135	P	45	48.24	-0.6
PSMM	1.11	133	P	45	51.43	0.9
PARM	1.16	119	P	45	51.86	0.4
PANM	1.18	152	P	45	51.41	-0.4
PCRM	1.19	128	P	45	51.97	0.1
HMR	1.34	353	eP	45	54.10	-0.3
PHAM	1.38	135	eP	45	53.95	-1.3
PKEM	1.42	122	(P)	45	55.76	0.0
CMB	1.55	38	eP	45	55.98	-1.6
NTYM	1.78	332	eP	45	58.73	-2.1
BCH	2.04	143	eP	46	03.25	-1.6
MMPM	2.20	68	eP	46	06.56	-0.7
MEMM	2.28	68	eP	46	08.72	0.6
			eS	46	36.95	
ORV	2.73	2	eP	46	15.17	0.6
GSC	4.17	110	(P)	46	34.41	-0.6
TPNV	4.29	87	(P)	46	37.25	0.4
ARUT	6.57	79	(Pn)	47	08.94	-0.2
			ePg	47	34.07	

23 obs. associated

MAY 11, 1993 03h 57m 43.17± 0.64s
26.823 S ± 6.6km 26.722 E ± 6.5km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 4.0 (PRE).

BFS	0.09	143	iPc	57	47.10	1.7
PRY	0.68	99	iPc	57	55.20	-1.6
			S	58	02.00	
KSR	0.97	9	iPd	58	03.00	0.8
			S	58	16.00	
SWZ	1.30	254	eP	58	10.20	2.5
			S	58	27.10	
SEK	1.70	152	iPd	58	13.90	0.2
			S	58	34.50	
SLR	1.77	53	iPd	58	15.60	0.8
			S	58	37.00	
BLF	2.33	192	iPd	58	24.60	1.7
			S	58	50.90	
FRS	3.17	203	iPd	58	35.50	0.9
			SS	59	06.00	
BFT	3.19	70	ePd	58	34.90	-0.3
			S	59	14.00	
GRM	6.47	181	eP	59	19.90	-1.6
			S	00	18.00	
POF	6.50	245	iPc	59	22.00	0.1
			S	00	36.00	
BUL	6.87	15	iPnc	59	27.00	-0.2
			iSn	00	43.30	
			i	00	56.10	
			iSg	01	16.50	
SUR	7.56	221	eP	59	35.00	-1.9
			S	01	02.00	
CER	9.15	223	eP	59	51.00	-7.9X
			S	01	32.00	
CER	9.15	223	eP	59	57.00	-1.9
			S	01	34.00	
TUH	9.20	224	e(P)	59	48.00	-11.5X
			S	01	22.00	
WIN	9.72	294	iPc	00	05.51	-1.4
			S	01	49.00	
S.D. = 1.5		on	15 of	17	obs.	

? MAY 11, 1993 05h 11m 24.08± 2.36s
31.705 S ±41.8km 69.683 W ±27.0km
DEPTH = 120.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTBS	0.20	77	ePd	11	41.10	0.0
			S	11	52.90	
RTCB	0.78	74	iPc	11	44.50	0.0
			S	12	02.00	
RTLL	1.10	70	iPd	11	47.50	0.0
			S	12	04.80	
CFA	1.23	86	e(P)	11	52.00	3.1X
			S	12	08.00	
MRA	3.45	103	ePd	12	17.00	0.0
S.D. = 0.0		on	4 of	5	obs.	

? MAY 11, 1993 05h 18m 54.87± 0 90s
38.166 N ±10.8km 15.728 E ± 6 4km
DEPTH = 10.0km (geophysicist)
SICILY (398)

ATN	0.21	269	Pc	18	59.20	-0.2
			eSg	19	02.60	
SOI	0.27	110	Pc	19	00.60	0.0
			eSg	19	04.20	
MNO	0 85	254	P	19	11.60	0.2
CZI	1.10	17	P	19	15.50	0.0
S.D. = 0.3		on	4 of	4	obs.	

? MAY 11, 1993 05h 20m 55.67± 3 56s
34.356 S ±31.1km 71.279 W ±11.4km
DEPTH = 60.0km (geophysicist)
NEAR COAST OF CENTRAL CHILE (135)
MD 3.6 (SAN).

LNV	0.41	345	iP	21	07.01	0.2
			iS	21	16.40	
CHCH	0.67	51	iP	21	09.68	0.0
			iS	21	20.97	
TACH	0.76	22	iP	21	10.59	-0.1
			iS	21	22.55	
LCCH	0.91	345	iP	21	12.40	-0.3
			iS	21	25.67	
PCH	0.97	41	iP	21	13.48	-0.1
			iS	21	28.02	
SAN	1.04	30	iP	21	14.56	0.2
			iS	21	29.33	
PEL	1.31	22	iP	21	18.39	0.3
			iS	21	35.93	
FCH	1.32	39	iP	21	18.30	-0.2
			iS	21	36.52	
ROCH	1.40	9	iP	21	19.56	0.1
			iS	21	38.13	
JACH	1.77	19	iP	21	24.40	-0.1
S.D. = 0.2		on	10 of	10	obs.	

& MAY 11, 1993 06h 10m 04.15s
60.588 N 152.395 W
DEPTH = 102.5km
SOUTHERN ALASKA (2)
<AEIC>.

RDT	0.02	201	iP	10	17.85	0.8
DFR	0.14	272	iP	10	17.98	0.8
			eS	10	28.99	
REF	0.18	237	eP	10	18.28	0.9
			eS	10	29.50	
RSO	0.22	235	iP	10	18.45	0.9
RS2	0.22	235	iP	10	18.47	0.9
RS1	0.22	235	eP	10	18.48	0.9
			eS	10	29.90	
RDW	0.23	243	eP	10	18.61	1.0
NCT	0.27	265	iP	10	18.48	0.9
			eS	10	29.94	
NKA	0.59	74	iP	10	22.34	1.3
CKL	0.61	3	eP	10	20.70	-0.7
			eS	10	34.16	
SPU	0.62	15	eP	10	20.85	-0.6
			eS	10	34.23	
CKT	0.62	8	eP	10	21.00	-0.5
			S	10	34.21	
INE	0.62	212	eP	10	20.34	-1.2
			eS	10	33.22	
INW	0.64	215	eP	10	20.49	-1.1
CKN	0.65	9	eP	10	21.05	-0.6
BGL	0.68	0	eP	10	21.71	-0.3
CPAM	0.68	10	eP	10	21.52	-0.5
CP2	0.68	6	eP	10	22.11	0.0
CRP	0.69	10	eP	10	21.56	-0.6
OPT	1.03	204	iP	10	24.42	-1.0
			eS	10	40.97	
SLKM	1.08	93	iP	10	25.05	-0.9
BRLK	1.12	137	eP	10	25.73	-0.7
			S	10	41.69	
SUA	1.19	42	iP	10	27.21	-0.1
			eS	10	45.17	
CNPM	1.21	151	iP	10	26.50	-1.0
			eS	10	43.88	
AUW	1.34	204	eP	10	27.64	-1.3
SKT	1.46	16	eP	10	29.66	-0.8
MPA	1.50	92	iP	10	29.66	-1.3
PMS	1.53	63	iP	10	30.97	-0.4
SEW	1.54	107	iP	10	29.87	-1.5
PTE	1.68	79	eP	10	31.75	-1.4
MCNL	1.71	216	eP	10	32.18	-1.4
CDD	1.78	201	iP	10	33.01	-1.5
PLRM	1.88	56	eP	10	33.99	-1.7
SYI	1.98	180	eP	10	35.68	-1.4
GHO	2.06	53	eP	10	36.48	-1.7
KLU	3.28	71	eP	10	52.02	-2.6
36 obs. associated						

? MAY 11, 1993 06h 34m 09.37± 6.15s
38.806 N ±49.6km 22.846 E ±13.3km
DEPTH = 10.0km (geophysicist)
GREECE (364)

AGG	0.46	298	iPg	34	18.52	-0.2
			eSg	34	27.68	
PAIG	1.29	30	ePb	34	32.32	-1.0
			eSb	34	52.80	
LIT	1.32	348	ePb	34	34.12	0.3
			eSb	34	52.84	
OUR	1.76	30	ePb	34	40.36	0.3
SOH	2.05	11	ePn	34	46.20	1.9
KNT	2.35	1	ePn	34	47.28	-1.4
S.D. = 1.5		on	6 of	6	obs.	

% MAY 11, 1993 07h 01m 44.95± 0.63s
38.102 S ± 8.3km 176.021 E ± 8.2km
DEPTH = 190.0km (geophysicist)
NORTH ISLAND, NEW ZEALAND (159)

WLZ	0.41	304	P	02	11.30	0.7
WHH	0.87	155	eP	02	13.90	0.8
URZ	0.87	101	P	02	12.60	-0.4
			eS	02	33.20	
MOZ	1.04	247	eP	02	15.60	1.4
PAHZ	1.11	133	eP	02	15.30	0.5
NGZ	1.12	197	P	02	16.70	1.7
CNZ	1.16	199	P	02	16.70	1.4
MOH	1.36	140	eP	02	17.90	1.1
KUZ	1.37	350	eP	02	15.60	-1.3
TTH	1.57	157	P	02	20.30	1.6
WAHZ	1.62	171	Pd	02	20.40	1.2
NOZ	1.67	109	eP	02	19.60	0.0
PUZ	1.76	90	P	02	19.30	-1.4
			eS	02	45.10	
HBZ	1.87	75	eP	02	20.40	-1.3
BSZ	1.90	206	P	02	23.30	1.4
TEHZ	1.98	162	eP	02	23.80	0.9
NRZ	2.05	232	eP	02	25.60	2.0

```
MNG      2.55 189 P      02 29.30   0.1
                  eS     03 02.30
KIW      2.89 197 P      02 32.80  -0.4
MTW      3.08 187 P      02 34.80  -0.7
CAW      3.09 193 P      02 35.20  -0.4
DIW      3.15 210 P      02 35.90  -0.4
MRW      3.29 198 P      02 37.20  -0.8
BLW      3.29 187 P      02 37.10  -0.9
WEL      3.32 197 eP     02 37.80  -0.6
MOW      3.37 190 P      02 37 90  -1.1
TCW      3.39 203 P      02 38.40  -0.8
ORZ      3.84 224 eP     02 43.10  -1.7
THZ      4.37 212 eP     02 50.80  -0.9
KHZ      4.71 203 P      02 54.50  -1.5
LTZ      5.48 210 P      03 03.30  -2.7X
ODZ      8.02 208 eP     03 36.70  -2.8X
      S.D. = 1.2   on  30 of  32 obs.
-----------------------------------------
%  MAY  11, 1993  07h 05m 55.07± 2.85s
   44.884 N ±13.2km   10.035 E ±20.7km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                    (545)

BOB      0.43 255 P      06 04.10   0.2
                  eSg    06 10.00
BORS     0.66 193 P      06 08.26   0.1
                  S      06 17.12
PCP      1.12 253 P      06 16.01   0.0
                  S      06 30.38
FIN      1.47 243 P      06 21.73   0.1
                  S      06 38.30
ROB      1.65 250 P      06 24.48   0.2
                  S      06 43.41
IMI      1.82 238 P      06 25.94  -0.8
                  S      06 46.56
BHB      1.97 270 P      06 29.47   0.6
ENR      1.98 252 P      06 29.70   0.6
RSP      1.99 279 P      06 27.48  -1.7
LSD      2.12 287 P      06 31.48   0.3
PZZ      2.13 261 P      06 30.43  -0.8
RRL      2.31 272 P      06 35.44   1.4
      S.D. = 0.9   on  12 of  12 obs.
-----------------------------------------
?  MAY  11, 1993  07h 11m 23.55± 1.39s
   0.019 S ±37.2km  124.953 E ±46.6km
   DEPTH =  33.0km  (normol)
   4.3mb (  2 obs.)
 SOUTHERN MOLUCCA SEA              (269)

TSM      8.27 301 eP     13 24.00  -0.2
WB2     21.84 156 eP     16 14.20  -1.0
        0.6s      6.80nm          4.2mb
ASPA    25.06 160 iPd    16 47.60   1.0
        1.2s      9.70nm          4.3mb
                  i      17 01.00
GUN     46.62 310 P      19 51.40   0.3
        0.6s     17.00nm          5.2mb X
PKI     46.81 309 P      19 52.40  -0.3
KKN     47.02 309 P      19 54.00  -0.2
DMN     47.07 309 P      19 55.00   0.4
GKN     47.62 309 P      19 58.80   0.0
        0.4s      6.00nm          5.0mb X
      S.D. = 0.7   on   8 of   8 obs.
-----------------------------------------
%  MAY  11, 1993  09h 14m 10.07± 1.09s
   39 138 N ± 8.1km   27.660 E ±13.1km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.8 (ISK).

IZM      0.80 203 iPg    14 25.60  -0.1
                  iSg    14 3B.10
EDC      1.22   7 ePn    14 33.00   0.3
8NT      1.23   9 ePn    14 32.00  -1.0
KCT      1.23  26 ePn    14 33.60   0.6
EZN      1.24 304 iPn    14 33.30   0.2
      S.D. = 0.9   on   5 of   5 obs.
-----------------------------------------
%  MAY  11, 1993  09h 41m 07.61± 1.08s
   39.125 N ± 8.0km   27.690 E ±13.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.8 (ISK).

IZM      0.80 205 iPn    41 23.10  -0.1
                  eSg    41 36.00
EDC      1.23   6 ePn    41 30.50   0.1
KCT      1.24  24 ePn    41 31.10   0.5
BNT      1.24   8 ePn    41 30.00  -0.7
EZN      1.27 304 ePn    41 31.30   0.2
      S.D. = 0.6   on   5 of   5 obs.
-----------------------------------------
&  MAY  11, 1993  12h 13m 21.53s
   60.357 N          152.284 W
   DEPTH =  82.7km
   2.7mb (  1 obs.)
 SOUTHERN ALASKA                   (  2)
      <AEIC>.

RSO      0.26 295 iPc    13 33.80  -0.5
                  eS     13 43.78
RS1      0.26 294 iPc    13 33.84  -0.5
RS2      0.26 295 iPc    13 33.82  -0.5
RDN      0.28 304 iPc    13 33.78  -0.6
                  eS     13 43.87
RDW      0.29 296 iPc    13 33.81  -0 7
DFR      0.31 320 iPc    13 33.74  -0.7
NCT      0.38 303 iPc    13 33.95  -1.0
                  eS     13 44.83
INE      0.49 233 iPc    13 34.89  -0.9
INW      0.51 236 iPd    13 35.11  -0.9
NKA      0.65  53 iPc    13 38.19   1.2
SPU      0.84   8 iPc    13 38.28  -0.9
                  eS     13 51.64
CKL      0.84 358 iPc    13 38.46  -0.8
CKT      0.85   3 ePc    13 38.39  -0.9
OPT      0.85 214 iPd    13 38.64  -0.7
                  eS     13 51.97
CKN      0.87   3 iPd    13 38.90  -0.7
CPAM     0.90   4 iPd    13 39.34  -0.6
BGL      0.91 357 iPd    13 39.38  -0.7
CP2      0.91   1 eP     13 38.79  -1.4
CRP      0.92   4 iPd    13 38.93  -1.3
BRLK     0.92 130 eP     13 39.34  -0.8
                  eS     13 53.88
XLV      0.95 162 ePc    13 39.77  -0.6
CGLM     0.96   8 eP     13 39.98  -0.7
                  eS     13 55.14
CNPM     0.99 147 iPd    13 40.08  -0.8
                  eS     13 55.28
SLKM     1.03  81 iPc    13 40.39  -1 1
PDB      1.11 240 eP     13 41.10  -1.3
                  eS     13 56.63
AUL      1.14 211 eP     13 41.87  -0.8
AUE      1.14 209 ePd    13 41.63  -1.1
AUH      1.16 211 iPd    13 42.07  -0.9
AUW      1.16 212 iPd    13 42.02  -0.9
AUI      1.18 210 eP     13 42 12  -1.0
                  eS     14 01.13
SUA      1.34  33 iPc    13 44.73  -0.7
SEW      1.44  99 iPc    13 45.02  -1.5
MPA      1.46  84 iPc    13 45.53  -1.2
MCNL     1.57 222 iPd    13 46.82  -1.4
                  eS     14 06.53
CDD      1.59 206 iPd    13 46.99  -1.6
PMS      1.61  55 P      13 47.90  -0.9
SKT      1.67  12 iPd    13 48.19  -1.4
                  eS     14 11.09
PTE      1.69  71 iPc    13 48.33  -1.5
PWA      1.75  41 P      13 49.90  -0.7
SYI      1.75 182 iPd    13 49.74  -0.9
SVW      1.80 296 eP     13 4B.63  -2.8
PLRM     1.97  50 ePc    13 51.87  -1.8
PMR      1.97  50 ePd    13 51.56  -2.1
                  S      14 14.45
GHO      2.16  48 iPc    13 54.60  -1.8
                  eS     14 20.50
SML      2.41  51 iPc    13 57.73  -2.0
KDC      2.62 182 eP     13 59.12  -3.4
SCM      2.83  56 ePc    14 03.22  -2.2
HIN      2.87  87 eP     14 02.28  -3.8
HUR      2.92  24 eP     14 05.97  -0.7
VLZ      3.02  73 ePc    14 05 05  -3.0
TTA      3.14 327 eP     14 06.85  -2.9
MID      3.14 105 P      14 08.60  -1.0
CVA      3.24  84 eP     14 07.49  -3.6
TRF      3.25  16 ePc    14 09.30  -2.0
KLU      3.31  67 iPc    14 09.22  -2.9
RND      3.46  26 eP     14 12.66  -1.6
SGAM     3.51  85 eP     14 10.42  -4.4
TZL      3.73  60 eP     14 15.41  -2.4
MCK      3.74  24 eP     14 17.41  -0.6
RAGM     3.78  86 eP     14 15.37  -3.2
SDG      3.90  53 eP     14 18 22  -2.1
KAIM     3.96  93 eP     14 18.26  -2.8
PAX      4.17  48 eP     14 22.14  -2.1
GLB      4.28  72 iPc    14 22.04  -3.6
THY      4.36  42 eP     14 25.88  -0.8
NEA      4.49  18 eP     14 26.18  -2.3
CROM     4.53  81 eP     14 26.59  -2.7
WRH      4.57  23 eP     14 26.54  -3.0
TGL      4.68  81 eP     14 28.37  -3.0
SNH      4.71  88 eP     14 29.33  -2.3
MLY      4.75   8 eP     14 29.60  -2.5
HDA      4.76  29 iPd    14 29.72  -2.6
CCB      4.78  24 eP     14 29.50  -3.0
CYK      4.90  89 eP     14 31.67  -2.4
BALM     4.93  78 eP     14 30.49  -4.3
MDM      4.98  20 eP     14 32.81  -2.6
FBA      5.01  22 eP     14 32.02  -3.7
        0.3s      8.15nm          4.4mb X
GLM      5.16  24 eP     14 35.13  -2.8
CTGM     5.42  79 eP     14 39.16  -2.5
IMA      5.77 354 eP     14 43.00  -3.4
        0.7s      8.87nm          4.2mb X
PRP      6.03  28 eP     14 47.43  -2.6
INK     11.34  37 eP     16 01.00  -1.1
YKA     17.98  67 eP     17 24.00  -3.0
        0.6s      0.30nm          2.7mb
MBC     19.55  23 eP     17 43.00  -1.6
        84 obs. associoted
-----------------------------------------
%  MAY  11, 1993  12h 33m 50.28± 1.05s
   39.140 N ± 7.9km   27.652 E ±12.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.8 (ISK).

IZM      0.80 202 iPg    34 05.B0  -0.1
                  iSg    34 18.30
EDC      1.22   8 ePn    34 13.00   0.1
BNT      1.23  10 ePn    34 12.40  -0.8
EZN      1.23 304 ePn    34 13.40   0.2
KCT      1.23  26 iPn    34 13.80   0.6
      S.D. = 0.7   on   5 of   5 obs.
-----------------------------------------
•  MAY  11, 1993  13h 20m 54.47± 1.65s
   50.501 N ±19.2km   18.991 E ± 9.6km
   DEPTH =  10.0km  (geophysicist)
 POLAND                            (548)
      ML 3.4 (WAR), 3.2 (VIE).

OJC      0.59 118 ePg    21 06.60   0.2
                  iSg    21 14.90
SPC      1.54 148 iPn    21 21.70  -0.5
                  i(Sn)  21 40.50
                  Lg     21 43.00
KSP      1.75 282 ePn    21 25.40   0.4
        0.4s     66.00nm
                  iPg    21 28.00
                  iS     21 51.30
ZST      2.62 209 eP     21 37.50   0.0
                  i      21 44.30
SRO      2.73 190 eP     21 43.30   4.2X
VKA      2.84 219 iPgc   21 42.00   1.3
                  e      22 21.00
                  i      22 31.50
PRU      2.90 262 ePn    21 42.50   1.0
                  iPg    21 47.20
                  Sg     22 23.30
KHC      3.76 251 ePn    21 51.50  -2.3
                  Pg     22 06.00
                  e      22 32.00
                  Sg     22 50.50
CLL      3.88 284 ePg    22 08.00  12.7X
                  eSg    23 01.80
KBA      5.07 230 i(Pn)  22 22.B0  10.4X
                  i      22 31.40
                  iSg    23 36.40
      S.D. = 1.5   on   7 of  10 obs.
-----------------------------------------
%  MAY  11, 1993  14h 18m 18.79± 1.24s
   38.109 N ±15.0km   14.163 E ± 9.2km
   DEPTH =  10.0km  (geophysicist)
 SICILY                            (398)

GIB      0.16 222 P      18 21.50  -1.1
                  eSg    18 24.50
MNO      0.46 113 P      18 27.60  -0.5
                  eSg    18 36.00
MCT      0.63 221 P      18 32.70   1.0
```

11d 14h

```
ATN      1.03   87 P      18 38.10   -0.1
SOI      1.49   91 P      18 46.50    0.9
CZI      1.90   54 P      18 51.20   -0.3
      S.D. = 1.1  on   6 of   6 obs.
-----------------------------------------
?  MAY  11, 1993  14h 21m 52.37± 0.95s
   71.981 N ±14.8km     1.939 W ±15.2km
   DEPTH =  10.0km  (geophysicist)
   3.7mb (  5 obs.)
 JAN MAYEN ISLAND REGION          (639)

DAG      6.59 324 eP     23 27.80   -3.7X
       0.2s     50.00nm          6.1mb X
ARA0     9.33   92 Pn     24 09.79    0.0
NB2     12.13 148 P      24 42.90   -5.1X
       0.7s      0 30nm          3.7mb
NRA0    12.47 148 Pn     24 48.60   -3.9X
                Sn     26 54.83
KAF     14.62 118 eP     25 19.50   -1.2
       0.3s      0.80nm          3.8mb
FIA0    15.10 120 Pn     25 25.42   -1.6
                Sn     28 01.37
NUR     15.52 124 eP     25 34.70    2.3
       0.2s      0.70nm          3.6mb
CLL     21.79 154 e(P)   26 47.00    1.2
MOX     22.26 157 eP     26 49.60   -1.0
BRG     22.35 153 e(P)   26 52.20    0.8
KSP     22.73 149 eP     26 54.80   -0.4
PRU     23.30 152 eP     27 00.00   -0.7
GEC2    24.30 154 P      27 11.10    0.6
       1.4s     4.69nm          3.9mb
                e     27 16.70
                e     27 23.10
YKA     38.19 316 eP     29 11.10   -1.9
       1.1s     1.40nm          3.6mb
FBA     41.44 339 (P)    29 41.90    2.0
      S.D. = 1.5  on  12 of  15 obs.
-----------------------------------------
   MAY  11, 1993  14h 35m 42.52± 0.44s
   27.807 N ± 7.4km    99.478 E ± 6.2km
   DEPTH =  33.0km  (normal)
   4.6mb ( 21 obs.)
 YUNNAN, CHINA                    (318)

KMI      3.96 132 ePn    36 44.50    1.8
                Pg     36 53.50
                Sn     37 22.50
                Sg     37 34.50
CHTO     8.97 183 iPc    37 57.50    4.8X
       1.1s     29.45nm          5.4mb
                e     40 35.00
LZH      9.05   23 Pd     37 54 00    0.0
       1.5s     30.00nm          5.2mb
                sP     38 09.00
BDT     10.52 182 eP     38 12.50   -1.6
GUN     12.03 274 P      38 33.40   -1.6
PKI     12.47 272 P      38 38.80   -2.1
KKN     12.57 273 P      38 40.40   -1.7
DMN     12.74 272 P      38 42.60   -1.7
KHT     12.98 184 eP     38 54.50    7.1X
GKN     13.13 274 P      38 47.80   -1.6
BJI     18.43   44 eP    39 55.50   -1.4
       1.2s     23.00nm          4.2mb
SSE     19.18   75 Pc    40 04.50   -1.7
       1.0s     19.00nm          4.3mb
     Z  12s      0.90um          4.1Msz
     E  10s      0.50um
NDI     19.63 278 eP     40 14.00    2.7
HYB     21.88 246 eP     40 35.50    1.0
PRZ     22.53 316 eP     40 42.50    1.6
       0.8s     30.00nm          4.8mb
ZAK     22.73    6 eP     40 42.50   -0.1
       1.7s     21.00nm          4.3mb
     Z  12s      0.49um          4.2MszX
     E  11s      0.19um
MOY     23.87    2 eP     40 54.00    0.3
IRK     24.70    7 eP     41 03.60    1.8
       2.0s     35.00nm          4.6mb
     Z  11s      0.66um          4.4MszX
     N  11s      0.42um
GBA     24.94 240 P      41 09.00    4.8X
FRU     25.10 313 eP     41 08.00    2.3
                e     41 43.00
CIT     26.39   20 eP    41 17.00   -0.6
BOD     31.76   15 eP    42 03.70   -1.9
MAIO    34.73 294 iPc    42 33.20    1.4
YSS     38.74   49 (P)   43 03.00   -2.3

                e     43 11.20
KIV     47.83 305 eP     44 23.70    4.6X
       1.2s     19.00nm          5.0mb
KAF     57.99 328 eP     45 35.60    1.7
WRA     58.24 141 P      45 36.70    0.5
       0.6s     7.40nm          4.9mb
WB2     58.24 141 iPc    45 36.30    0.1
       0.6s     17.30nm          5.3mb
NUR     58.80 326 eP     45 40.20    0.5
ASPA    61.00 144 iPc    45 55.70    0.5
       0.8s     6.10nm          4.8mb
OIS     61.79 137 eP     46 01.60    1.0
UPP     62.36 326 iP     46 03.50   -0.3
HFS     64.26 326 eP     46 16.00   -0.4
       0.5s     1.50nm          4.3mb
NB2     65.26 328 P      46 21.20   -1.8
       0.8s     2.40nm          4.3mb
GEC2    66.95 314 Pd     46 34.70    0.7
       0.7s     0.65nm          3.9mb
                e     46 36.70
                e     46 45.40
                e     46 48.10
LPG     72.53 313 eP     47 09.10    0.7
       0.8s     9.65nm          4.8mb
LPL     72.53 313 eP     47 09.10    0.7
       0.9s     8.50nm          4.7mb
MBC     73.42   9 eP     47 12.50   -0 2
       0.9s     2.00nm          4.1mb
SSF     74.00 315 eP     47 19.10    2 5
       0.8s     4.85nm          4.6mb
FBA     74.11  24 ePc    47 16.27   -0.7
       0.9s     7.63nm          4.7mb
INK     76.55  18 eP     47 31.50    0.8
       1.0s     3.00nm          4.3mb
BUL     83.46 243 iPd    48 12.00    3 4X
YKA     85.97  15 eP     48 19.60   -0 8
       0.9s     1.20nm          4.1mb
      S.D. = 1.5  on  38 of  43 obs.
-----------------------------------------
%  MAY  11, 1993  15h 01m 30.10± 0 98s
   26.881 S ±12.3km    26.728 E ± 6.6km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA         (584)
      ML 2.2 (PRE).

BFS      0.05 109 iPd    01 31.00   -0.7
                S     01 31.50
PRY      0.67  94 eP     01 43.50    0.0
                S     01 51.00
KSR      1.02   9 eP     01 56.00    6.0X
                S     02 05.50
SWZ      1.29 256 eP     01 54.30   -0.2
                S     02 09.10
SEK      1.64 151 eP     02 00.40    0.5
                S     02 21.00
SLR      1.80  51 eP     02 02.50    0.3
                S     02 25.00
BLF      2.27 192 eP     02 01.50   -7.5X
      S.D. = 0.7  on   5 of   7 obs.
-----------------------------------------
   MAY  11, 1993  15h 28m 04.93± 0.68s
   46.468 N ± 4.7km    11.614 E ± 6.5km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                   (545)
      ML 2.4 (VIE).

CTI      0.42 177 P      28 13.40   -0.2
                eSg    28 19.40
SCE      0.57   7 iPgc   28 16.60   -0.1
WTTA     0.80   1 iPgc   28 20.70    0.2
                iSg    28 31.20
SQTA     0.80 340 iPgd    28 20.70    0.1
                iSg    28 31.40
FVI      0.82  81 P      28 20.60   -0.1
                eSg    28 29.80
WATA     0.87 358 iPgd    28 22.00    0.3
                iSg    28 33.40
MOTA     0.94 338 iPgc    28 23.10    0.1
                iSg    28 36.30
KBA      1.34  62 iPnd    28 29.70    0.0
                iPg    28 30.20
                iSg    28 48.20
RBL      1.35  90 P      28 30 50    0.7
                eSg    28 48.80
GEC2     2.77  30 Pn     28 49.30   -0.9
                Sn     29 22.70
                Sg     29 31.80

KHC      2.98  26 ePn    29 01.00    7.9X
                ePg    29 08.00
                Sn     29 28.40
                eSg    29 38.00
      S.D. = 0.4  on  10 of  11 obs.
-----------------------------------------
   MAY  11, 1993  16h 24m 59.58± 0.17s
   24.919 S ± 3.4km    70.464 W ± 5.0km
   DEPTH =  46.6km  ( 38 depth phases)
   5.4mb ( 49 obs.)  4.9Msz ( 30 obs.)
 NEAR COAST OF NORTHERN CHILE     (122)
      Mw 5.7 (HRV), Ms 4.8 (BRK). Felt
      (IV) at Antofagasta and Taltal;
      (III) at Mejillones; (II) at
      Calama and Tocopilla.
      CENTROID, MOMENT TENSOR      (HRV)
      Data Used: GDSN
      L.P.B.: 37S, 79C
      Centroid Location:
      Origin Time        16:25: 7.2 0.2
      Lat 24.71S 0.02 Lon  70.45W 0.03
      Dep  62.4  3.3 Half-duration  1.8
      Moment Tensor;    Scale 10**17 Nm
        Mrr=-0.05 0.06  Mtt=-0.19 0.11
        Mff= 0.24 0.11  Mrt=-0.22 0.08
        Mrf=-4.16 0.12  Mtf=-0.57 0.09
       Principal Axes:
        T  Val=  4.27  Plg=44  Azm= 85
        N       -0.13       8      183
        P       -4.15      45      281
      Best Double Couple:Mo=4.2*10**17
       NP1:Strike= 99 Dip= 8 Slip=-175
       NP2:         3     89      -82

ANT      1.21    2 iPd    25 21.30    1.0
FSA      4.19  107 iPc    26 07.20    4.6X
SLA      4.52   89 P      26 12.00    4.6X
                e     26 31.50
HJA      4.92   71 iPc    26 19.10    6.2X
RTRS     5.31  171 eP     26 19.50    1.2
YJA      5.31   60 ePc    26 22.50    3.6X
CYA      5 46  131 ePc    26 22.40    1.9
RTPR     6.41  148 iPc    26 33.70   -0.1
RTLL     6.62  165 ePd    26 36.00   -0.9
RTCB     6.71  168 eP     26 37.40   -0.7
RTBS     6.78  173 ePd    26 38.80   -0.1
ZON      6.79  167 eP     26 39.50    0.3
CFA      6.95  164 ePc    26 40.20   -1.2
RTCV     7.12  167 iPc    26 42.50   -1.3
MDZ      8.06  170 eP     26 57.30    0.4
                e     27 07.80
                e     27 37.10
                e     28 01.10
                e(S)  28 44.30
PEL      8.20  181 iP     26 54.00   -4.8X
TCA      8.23  142 iPc    26 57.70   -1.6
CNCB     8.39   17 iPc    27 02.70    0.7
ARE      8.47  353 eP     27 00.00   -2.8
                iS     28 28.50
CCH      8.52   29 P      27 24.60   21.1X
LPB      8.63   15 P      27 05.80    0.6
       1.0s    640.00nm          6.6mb X
     Z  18s     15.12um          4.5Msz
                S     29 29.00
                LR    30 19.00
ZOBO     8.88   15 iPc    27 08.20   -0.6
                S     29 08.00
                LR    30 28.00
SIV     12.50   46 Pc     28 06.60    9.2X
NNA     14.21  334 eP     28 19.20   -0.8
       0.7s     27.40nm          5.0mb
     Z  20s      4.61um          3.7Msz
                eS    30 50.00
LPA     14.72  135 iP+    28 26.40   -0.1
       0.8s   1074.63nm          6.3mb
                ePP   28 42.00
PPD     17.80   85 eP     29 05.00   -0.7
                e     29 06.90
VAO     21.55   90 eP     29 46.20   -0.9
                e     29 47.00    3kmX
                e     30 04.80
RIFB    21.75   82 iPc    29 48.60   -0.4
                e     29 52.00   12kmX
                e     30 03.40
                e     30 07.60
                eS    33 45.90
                e     34 12.40
```

CACB	22.03	86	eP	29	50.70	-1.2
			e	29	51.80	4kmX
			i	29	54.40	
			e	30	10.90	
			eS	33	51.00	
			e	34	17.40	
BAO	22.99	71	iPd	30	01.00	-0.3
			i	30	11.00	37km
			i	30	44.50	
			e	37	54.10	
PSO	26.79	345	eP	30	39.00	1.2
BOG	29.57	353	e(P)	31	06.00	3.2X
			eS	36	04.00	
SDV	33.60	360	eP	31	36.30	-1.6
TOV	34.50	1	eP	31	43.90	-1.6
CAR	35.38	6	iP	31	52.00	-1.1
BIM	40.25	14	eP	32	32.10	-1.6
MVM	40.33	14	iPc	32	32.63	-1.7
FDF	40.44	14	eP	32	33.07	-2.3
PPM	51.61	325	(P)	34	05.00	0.7
HBF	58.30	350	(P)	34	51.41	-0.5
GOGA	59.31	347	eP	34	56.72	-2.3
	0.6s		9.27nm			5.1mb
	Z 22s		0.87um			4.8Msz
			S	42	57.85	
			e	50	13.24	
SNA	59.42	159	iPc	34	58.00	-1.4
	0.7s		218.00nm			6.4mb
PRM	59.76	349	eP	35	00.49	-1.6
JSC	59.76	350	eP	35	00.49	-1.5
			epP	35	12.99	44km
CEH	61.03	352	eP	35	09.51	-1.1
	0.8s		34.19nm			5.5mb
	Z 22s		0.84um			4.8Msz
MYNC	61.05	347	eP	35	09.69	-1.2
	1.0s		47.94nm			5.6mb
	Z 21s		0.77um			4.8Msz
			epP	35	22.53	45km
TKL	61.55	348	eP	35	12.32	-1 9
			epP	35	25.17	45km
GBTN	61.64	347	eP	35	12.81	-2.1
LTX	62.67	327	eP	35	19 61	-2.3
CVL	63.02	353	eP	35	23.38	-0.5
MIAR	63.07	339	eP	35	22.82	-1.6
	0.9s		31.14nm			5.4mb
	Z 21s		0.49um			4.7Msz
			S	43	49.78	
NVL	64.17	159	iPc	35	31.00	-0.2
	1.6s		231.00nm			6.0mb
			epP	35	56.00	99kmX
			ePcP	36	10.00	
			ePP	37	53.00	
			ePPP	39	31.00	
			iS	44	03.00	
			e	44	36.00	
			e	04	21.00	
			e	04	24.00	
ELC	64.34	343	ePd	35	30.56	-2.1
MEO	65.09	335	iPd	35	36.90	-0.7
MBO	65.18	59	iPc	35	38 60	0 1
SPA	65.23	180	iPc	35	37.60	-0.8
	0.8s		79.17nm			5.8mb
FVM	65.32	343	iPd	35	37.98	-1 0
	0.8s		122.85nm			6.0mb
	Z 19s		0.86um			5.0Msz
			epP	35	51.38	47km
OCO	65.32	336	iPd	35	39.80	0 8
ACO	66.99	335	iPd	35	49.30	-0.4
HRV	67.09	359	P	35	47.16	-3 0X
	Z 20s		0.67um			4.8Msz
			S	44	50.49	
KDS	67.92	64	iPc	35	55.30	-0.7
ALQ	68.62	329	ePd	36	00.06	-0.1
	0.7s		15.01nm			5.1mb
			epP	36	13.49	47km
TUC	68.69	324	ePd	36	00.31	-0.2
	1.5s		77.23nm			5.5mb
	Z 20s		1.21um			5.1Msz
			epP	36	13.63	46km
			S	45	02.23	
GAC	70.43	356	eP	36	11.50	0.8
			pP	36	25.50	49km
LMN	70.62	4	ePd	36	14.50	2.6
LIC	70.72	73	Pc	36	12.80	-0.4
	Z 20s		3.00um			5.5Msz
TIC	70.93	73	Pc	36	14.00	-0.5
KIC	71.04	73	Pc	36	14.80	-0.3
	0.6s		112.00nm			6.0mb
			PcP	36	22.60	
GLA	71.47	322	eP	36	17.07	-0.3
			epP	36	29.94	44km
C8M	71.54	2	ePc	36	17.22	-0.2
	0.8s		33.13nm			5.3mb
	Z 20s		0.63um			4.9Msz
EEO	71.65	354	eP	36	20.50	2.4
			pP	36	35.00	51km
GOL	72.07	332	eP	36	20.90	-0.2
	1.4s		60.56nm			5.3mb
	Z 21s		0.56um			4.8Msz
			epP	36	34.04	45km
			S	45	46.30	
PV08	72.59	329	eP	36	24.53	0.2
PV10	72.61	329	eP	36	23.59	-0.7
PV09	72.75	329	eP	36	25.33	0.1
			epP	36	38.59	46km
PLM	72.85	321	eP	36	25.97	0.2
			epP	36	39.23	46km
PEC	73.41	321	eP	36	28.84	0.0
	0.6s		19.99nm			5.2mb
			epP	36	41.65	44km
SRU	73.89	329	ePd	36	31.64	0.0
			epP	36	45.21	47km
MSU	74.22	327	ePd	36	34.05	0.4
			epP	36	47.58	47km
GSC	74.24	322	eP	36	34.20	0.6
			epP	36	47.90	48km
ARUT	74.30	326	ePd	36	34.93	0.9
			epP	36	48.37	47km
EMUT	74.59	329	eP	36	35.47	-0.3
			epP	36	50.04	51km
TPNV	75.14	324	eP	36	39.25	0.3
	1.0s		39.88nm			5.3mb
DAU	75.27	329	ePd	36	40.31	0.5
			ipPc	36	53.93	47km
RSSD	75.27	336	eP	36	39.38	-0.2
	0.8s		22.27nm			5.2mb
	Z 21s		0.43um			4.7Msz
			epP	36	52.77	46km
			S	46	17.30	
DUG	75.84	328	eP	36	43.75	1.0
	1.0s		25.17nm			5.1mb
	Z 19s		0.47um			4.8Msz
			epP	36	57.14	46km
			S	46	21.41	
BCH	76.03	320	ePd	36	44.55	0.6
			ipPc	36	58.21	47km
BW06	76.39	331	eP	36	45.13	-0.8
	1.3s		30.05nm			5.1mb
			epP	36	58.84	48km
TUH	76.46	121	iPc	36	36.00	-10.4X
	0.5s		33.00nm			
TNP	76.49	324	eP	36	47.00	0.4
	0.8s		16.57nm			5.1mb
CER	76.55	121	iPc	36	46.90	-0.1
	0.8s		133.00nm			6.0mb
HVU	77.05	329	ePd	36	49.42	-0.1
			ipP	37	03.39	49km
MEMM	77.13	322	eP	36	51.08	1.3
MMPM	77.14	322	eP	36	50.46	0.1
SAO	77.92	320	eP	36	55.93	1.7
	Z 21s		0.50um			4.8Msz
			eS	46	51.93	
			eScS	47	14.93	
			ePPS	47	42.93	
			eLR	02	19.93	
SAO	77.92	320	P	37	00.70	6.5X
	Z 19s		0.49um			4.8Msz
SUR	78.10	120	iPc	37	07.50	11.7X
	1.0s		22.00nm			
ULM	78.15	344	ePd	36	57.60	2.4
CMB	78.20	322	eP	37	02.68	6.9X
	Z 20s		0.30um			4.6Msz
			eS	46	52.68	
			eScS	47	16.68	
			ePPS	48	27.68	
			eSS	51	47.68	
			eLR	02	53.68	
CMB	78.20	322	eP	36	55.89	0.1
	0.8s		7.47nm			4.8mb
	Z 19s		0.48um			4.8Msz
			epP	37	09.96	49km
			S	46	47.76	
ARN	78.37	321	eP	36	57.66	0.9
COE	78.39	321	(P)	36	57.54	0.7
MHC	78.43	321	eP	37	05.14	7.9X
	Z 22s		0.60um			4.9Msz
			eS	46	56.14	
			eScS	47	18.14	
			ePPS	48	02.14	
			eLR	02	40.14	
JAQ	78.52	357	ePd	36	56.00	-1.1
			pP	37	11.00	53km
POF	78.53	117	iPc	36	59.00	1.1
	0.5s		41.00nm			5.7mb
WIN	78.72	110	iPc	37	00.10	0.8
	1.5s		90.00nm			5.5mb
	Z 20s		8.66um			6.1MszX
STAN	78.78	320	eP	36	49.71	-9.2X
	Z 20s		0.40um			4.7Msz
			eLR	03	10.71	
BKS	79.14	321	eP	37	08.09	7.2X
	Z 21s		0.50um			4.8Msz
			eS	46	45.09	
			eScS	47	03.09	
			ePPS	47	43.09	
			eSS	52	09.09	
			eLR	03	08.09	
LCCM	79.84	332	eP	37	05.50	0.8
ORV	79.88	322	eP	37	05.46	0.6
			epP	37	18.93	46km
WDC	81.17	323	ePc	37	31.00	19.4X
	Z 20s		0.30um			4.6Msz
			eS	47	13.00	
			ePPS	48	07.00	
			eSS	52	43.00	
			eLQ	59	19.00	
			eLR	04	08.00	
WDC	81.17	323	eP	37	10.41	-1.2
	0.6s		24.36nm			5.3mb
	Z 21s		0.34um			4.7Msz
			S	47	15.62	
LBFM	81.34	323	iPd	37	12.85	0.0
			epP	37	25.94	44km
MAW	81.48	164	iPc	37	13.10	0.2
	0.9s		86.67nm			5.7mb
LGPM	81.56	323	eP	37	13.59	-0.2
KMPM	81.94	322	eP	37	16.98	1.2
TIO	82.10	51	iPc	37	18.50	1.6
			i	37	31.90	46km
GRM	82.19	123	eP	37	16.50	-0.8
	0.6s		37.00nm			5.6mb
	Z 20s		6.00um			6.0MszX
ARC	82.22	322	ePc	37	33.89	16.8X
	Z 21s		0.40um			4.8Msz
			eLQ	01	33.89	
			eLR	04	52.89	
FRS	82.69	119	iPc	37	20.10	0.2
	0.7s		105.00nm			6.0mb
BLF	83.64	119	iPc	37	25.10	0.1
	0.6s		104.00nm			6.1mb
VGB	83.70	327	eP	37	25.26	0.6
NEW	83.99	331	eP	37	25.56	-0.5
	0.8s		19.27nm			5.2mb
			epP	37	38.82	45km
DPW	84.18	330	eP	37	27.49	0.4
			epP	37	40.80	45km
ASR	84.55	327	P	37	30.47	1.5
NAC	84.59	328	P	37	30.34	1.2
MTMW	84.77	327	P	37	31.07	1.0
TBM	84.79	328	P	37	31.59	1.4
WTV	84.87	329	P	37	31.34	0.9
FL2	84.96	327	P	37	31.61	0.5
IFR	85.05	50	iP	37	34.00	2.1
			i	37	49.00	52km
SEK	85.12	119	eP	37	32.50	0.0
	0.6s		42.00nm			5.8mb
KSR	85.58	116	eP	37	46.50	11.7X
	0.8s		26.00nm			
BMW	85.59	327	P	37	35.00	0.9
PRY	85.60	118	eP	37	35.00	0.1
	1.5s		50.00nm			5.5mb
FCC	85.64	348	ePd	37	37.30	3.3X
			pP	37	50.50	44km
CPW	85.89	327	P	37	35.75	0.2
CNIL	86.04	47	eP	37	38.00	1.5
PLAT	86.09	47	iP	37	39.00	2.2
JCW	86.15	328	P	37	36.13	-0.7
EVAL	86.28	46	eP	37	39.50	1.8
HDW	86.32	327	P	37	38.78	1.1
EJIF	86.47	47	iPd	37	40.20	1.6
ALJ	86.50	47	eP	37	40.50	1.6

11d 16h

SLR	86.77	117	eP	37	38.20	-2.4
	0.6s		23.00nm			5.6mb
	Z 22s		3.96um			5.8Msz
EPRU	86.92	47	eP	37	42.50	1.7
PGC	87.20	328	eP	37	42.50	0.7
MAL	87.33	47	iPd	37	45.00	2.3
			iS	48	24.00	
EHOR	87.39	46	iPc	37	44.00	1.0
ELUQ	87.89	47	eP	37	46.40	0.9
EGUA	87.95	48	eP	37	45.50	-0.3
ECOG	88.20	47	eP	37	50.00	2.9
BFT	88.21	117	eP	37	47.00	-0.7
	0.5s		8.00nm			5.2mb
STS	88.28	40	eP	37	47.50	0.3
FRB	88.38	1	ePd	37	47.00	-0.1
	0.8s		6.00nm			4.9mb
			pP	38	02.00	51km
ERUA	88.82	41	eP	37	50.00	0.2
ENIJ	88.94	48	eP	37	49.90	-0.6
CSY	89.08	180	eP	37	51.50	0.8
	0.5s		29.60nm			5.9mb
			e	38	06.00	49km
BUL	89.49	112	iPd	37	54.00	0.3
			i	38	07.30	44km
EVIA	89.64	47	eP	37	53.50	-0.4
GUD	89.67	44	eP	37	55.00	1.0
ETOR	91.10	45	eP	38	01.00	0.4
LSZ	91.27	107	iPd	38	04.00	2.1
			i	38	17.50	45km
			i	41	38.40	
CIR	91.58	114	iPd	37	59.60	-3.6X
ECRI	91.78	43	eP	38	04.80	1.2
EGRA	92.94	44	eP	38	11.50	2.7
MTD	93.52	110	iPd	37	52.90	-19.3X
			i	38	10.40	61kmX
YKA	93.93	341	eP	38	12.60	-0.4
	0.7s		13.60nm			5.5mb
LFF	95.00	42	eP	38	18.60	0.3
	0.8s		11.55nm			5.4mb
MFF	95.31	41	eP	38	19.00	-0.7
	0.9s		11.95nm			5.4mb
CAF	95.81	43	eP	38	21.60	-0.4
GRR	95.82	39	eP	38	20.80	-1.1
FLN	96.23	39	eP	38	22.20	-1.6
	1.0s		11.20nm			5.3mb
	Z 21s		0.63um			5.1Msz
LDF	96.35	39	eP	38	23.30	-1.0
	1.1s		16.10nm			5.5mb
TCF	96.57	42	eP	38	24.60	-0.8
	0.8s		4.15nm			5.0mb
HON	96.61	290	P	38	32.81	6.8X
	Z 22s		2.16um			5.6Msz
			SP	51	23.66	
AVF	97.50	42	eP	38	28.80	-0.7
	0.9s		5.40nm			5.1mb
SSF	97.72	42	eP	38	29.60	-1.0
	0.9s		4.10nm			5.0mb
SMF	97.73	42	eP	38	30.10	-0.5
	1.1s		16.10nm			5.5mb
LRG	97.84	46	eP	38	31.60	0.5
	1.0s		17.80nm			5.6mb
	Z 20s		0.77um			5.2Msz
LOR	98.03	41	eP	38	30.30	-1.7
	0.9s		4.10nm			5.0mb
	Z 21s		0.88um			5.2Msz
LPG	99.01	44	eP	38	37.20	0.4
	0.8s		4.45nm			5.0mb
GRF	103.49	41	ePdiff	38	54.00	-2.5
	Z 22s		0.40um			4.9Msz
			e(PP)	43	08.00	
			e	49	42.00	
			e	52	20.00	
INK	103.65	340	ePdiff	38	57.50	0.8
MBC	105.30	349	ePdiff	39	04.50	0.5
ZST	106.59	44	ePKP	43	25.50	4.6X
			e	43	31.90	
OHR	106.83	52	ePKP	43	03.80	-17.9X
SRO	107.24	45	ePKP	43	27.50	5.4X
			e	43	38.80	
VAY	108.17	52	ePKP	43	40.00	15.9X
KAF	114.84	31	ePKP	43	32.90	-3.3X
ILT	119.69	336	ePKP	43	45.00	-0.2
			e	45	12.00	
			e	50	36.00	
			eSS	01	32.00	
OIS	126.16	216	iPKPd	43	58.70	-0.5
			ipP	44	13.90	
ASPA	126.24	208	iPKPc	43	57.80	-1.5
ASPA	126.24	208	iPKP	44	13.10	13.8X
	Z 20s		0.70um			5.3Msz
WARB	126.58	199	ePKP	43	57.60	-2.3
	0.6s		3.00nm			
WB2	129.29	211	iPKPc	44	04.50	-0.7
	0.6s		13.60nm			
WB2	129.29	211	ePKP	44	17.90	12.7X
WRA	129.30	211	PKP	43	59.70	-5.5X
	0.7s		8.50nm			
ARU	131.79	35	ePKP	43	52.00	-16.8X
	Z 23s		1.50um			5.6MszX
TIK	131.99	352	ePKP	44	22.00	13.3X
	2.0s		61.00nm			
	Z 20s		0.50um			5.2Msz
SVE	132.71	34	ePKPd	44	11.20	0.7
	2.0s		40.00nm			
NRI	133.71	10	ePKP	44	12.00	0.0
	2.2s		53.00nm			
			e	44	28.00	
			e	46	48.00	
			e	49	38.00	
ASH	134.95	61	ePKP	44	34.00	18.6X
MAIO	135.89	63	ePKP	44	17.00	-0.4
			i	46	56.00	
			eS	57	18.00	
YAK	140.48	345	ePKP	44	16.20	-8.7X
	0.8s		37.00nm			
KLD	143.62	58	ePKP	44	41.00	9.9X
			e	44	48.00	
			e	07	37.00	
GUA	144.84	258	ePKP	44	31.20	-2.6
GUMO	144.90	258	ePKP	44	31.60	-2.3
PJG	144.90	258	ePKP	44	31.20	-2.7
YSS	145.64	318	iPKPd	44	34.20	0.0
	1.0s		50.00nm			
			e	48	02.50	
KUSJ	145.99	311	ePKP	44	33.70	-1.2
FRU	146.25	49	iPKPc	44	36.20	0.7
	2.6s		820.00nm			
			e	48	01.20	
ELT	146.74	26	ePKP	44	35.00	-0.8
	1.8s		72.00nm			
BOD	146.93	355	ePKP	44	35.00	-1.0
	0.6s		51.00nm			
BOD	146.93	355	ePKP	44	52.30	16.3X
	0.7s		61.00nm			
ASAJ	146.98	314	ePKP	44	37.60	1.1
HOOJ	147.22	311	ePKP	44	39.80	2.9
GBA	147.76	104	PKP	44	39.00	0.4
LEM	148.39	176	iPKPd	44	44.00	4.1X
PRZ	148.97	48	ePKP	44	42.00	2.0
	1.8s		270.00nm			
OFUJ	149.49	305	ePKP	44	45.50	4.8X
HY8	150.21	98	iPKPc	44	47.50	5.1X
	0.8s		84.60nm			
			e	48	25.00	
YAMJ	150.99	304	ePKP	44	49.20	6.3X
IRK	152.40	7	ePKP	44	44.20	-0.4
			e	45	01.50	
MOY	152.49	12	ePKP	44	46.90	2.2
CIT	152.78	355	ePKP	44	53.50	8.3X
MAT	152.87	302	ePKP	44	53.00	7.2X
ZAK	154.12	9	iPKP	44	48.00	1.0
	2.2s		45.00nm			
			e	45	10.50	
			ePPS	02	00.00	
GKN	157.51	77	PKP	44	52.40	0.0
DMN	157.94	78	PKP	44	53.20	0.2
KKN	158.08	77	PKP	44	53.00	-0.2
IPM	158.18	157	ePKPd	44	55.10	1.7
PKI	158.21	78	PKP	44	52.80	-0.7
GUN	158.61	77	PKP	44	54.00	0.1
BJI	163.92	341	ePKP	45	13.00	14.5X
	Z 20s		0.84um			
			ePP	49	40.00	
			eSKKS	56	24.00	
			e	00	24.00	
			eSS	09	50.00	
LZH	167.84	22	PKPc	45	03.00	1.0
	Z 28s		1.53um			
	E 20s		0.96um			
			sPKP	45	18.00	
			ePP	49	50.00	
			eSKKS	56	27.00	
SSE	168.01	303	ePKP	45	02.00	0.0
	Z 20s		0.90um			
			e	46	24.00	
			ePP	50	07.00	
KMI	173.83	87	PKPc	45	07.50	2.1
			pPKP	45	18.00	
			sPKP	45	22.00	

S.D. = 1.2 on 194 of 238 obs.

% MAY 11, 1993 16h 47m 22.02± 0.55s
40.636 S ± 3.7km 174.444 E ± 4.2km
DEPTH = 76.2 ± 10.3 km
COOK STRAIT, NEW ZEALAND (163)

KIW	0.42	123	Pc	47	34.70	-0.2
			eS	47	43.40	
DIW	0.43	247	P	47	33.90	-1.1
			S	47	41.60	
TCW	0.59	192	Pc	47	36.50	0.1
			S	47	45.00	
MRW	0.63	162	P	47	37.10	0.3
			eS	47	47.30	
WEL	0.69	159	eP	47	37.80	0.3
			eS	47	48.90	
MNG	0.79	89	P	47	39.00	0.4
			eS	47	50.60	
BSZ	0.92	24	P	47	40.70	0.6
MTW	0.96	123	P	47	40.50	-0.1
MOW	0.99	142	P	47	40.80	-0.3
BLW	1.07	134	P	47	42.00	0.0
NRZ	1.36	343	eP	47	46.10	0.4
ORZ	1.47	262	Pc	47	46.90	-0.3
			eS	48	04.70	
THZ	1.62	225	P	47	50.10	0.9
CNZ	1.67	31	eP	47	50.20	0.3
WAHZ	1.74	58	P	47	50.70	-0.2
KHZ	1.91	201	P	47	53.40	0.4
			eS	48	14.30	
MOZ	2.15	8	eP	47	56.70	0.3
			eS	48	21.10	
DSZ	2.28	240	eP	47	58.40	0.1
WHH	2.36	43	eP	47	58.40	-1.0
LTZ	2.69	216	eP	48	03.30	-0.7
NOZ	3.43	55	eP	48	11.80	-2.4X
PUZ	3.91	50	eP	48	17.80	-3.1X
KUZ	4.01	15	eP	48	22.00	-0.3

S.D. = 0.5 on 21 of 23 obs.

? MAY 11, 1993 17h 07m 28.45± 4.24s
6.042 S ±43.6km 131.121 E ±18.5km
DEPTH = 33.0km (normal)
4.4mb (2 obs.)
TANIMBAR ISLANDS REG., INDONESIA(281)

WB2	14.17	167	eP	10	47.90	-1.1
			eS	13	26.30	
OIS	16.61	151	eP	11	20.60	0.0
			eS	14	20.30	
ASPA	17.73	172	iPc	11	35.90	1.4
	0.5s		29.80nm			4.7mb
			eS	14	51.20	
MBL	18.59	215	eP	11	45.10	0.0
CTA	20.28	135	iPc	12	04.50	0.3
			i	12	11.00	
			e(S)	15	52.00	
STK	27.51	160	iPc	13	13.40	-0.6
	0.3s		1.80nm			4.2mb
			e	13	51.60	

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

% MAY 11, 1993 17h 15m 51.10± 3.23s
40.207 N ±26.8km 28.003 E ±12.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

BNT	0.16	337	iPg	15	54.90	0.1
			iSg	15	56.90	
EDC	0.18	323	iPg	15	55.00	-0.1
			iSg	15	57.00	
KCT	0.27	81	iPg	15	56.90	0.0
CTT	0.99	19	ePn	16	09.90	0.0
YLV	1.11	71	ePn	16	11.90	0.0

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

MAY 11, 1993 17h 39m 22.45± 0.73s
26.838 S ± 6.7km 26.645 E ± 7.3km
DEPTH = 5 0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)

ML 3.4 (PRE). mbLg 3.2 (BUL).

BFS	0.14	116	iPd	39	25.70	0.3
PRY	0.75	97	iPc	39	36.90	-0.5
			S	39	46.20	
KSR	1.00	13	eP	39	43.90	2.0
			S	39	56.50	
SWZ	1.23	254	eP	39	46.40	0.6
			S	40	04.00	
SEK	1.72	150	iPd	39	53.90	0.6
			S	40	13.50	
SLR	1.83	54	iPd	39	56.20	1.2
			S	40	20.00	
BLF	2.30	190	iPc	40	01.90	0.2
			S	40	27.50	
FRS	3.13	202	iPd	40	12.20	-1.1
			S	40	45.00	
BFT	3.26	70	eP	40	16.00	0.5
			S	40	54.00	
GRM	6.45	181	e(P)	40	16.00	-44.5X
BUL	6.90	16	iPn	41	05.20	-1.8
			iSn	42	21.50	
			iSg	42	55.00	
CIR	7.35	39	iPn	41	11.00	-2.1
			iSn	42	34.00	
			iSg	43	05.50	
SUR	7.50	221	eP	41	27.00	11.6X
			S	42	46.00	
CER	9.10	223	e(P)	41	47.00	9.6X
TUH	9.14	223	e(P)	41	54.00	16.0X
			S	43	30.00	
WIN	9.66	294	eP	41	31.00	-14.4X
			S	43	05.00	

S.D. = 1.4 on 11 of 16 obs.

% MAY 11, 1993 18h 16m 07 39± 0.86s
40.649 N ±11.8km 29.194 E ± 6.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ML 2.5 (ISK).

YLV	0.16	121	iPg	16	10.90	-0.2
HRT	0.40	64	iPg	16	16.50	0.9
EYL	0.74	96	ePg	16	21.30	-0.7
			eSg	16	32 80	
CTT	0.76	311	ePg	16	21.60	-0.7
			eSg	16	32.30	
EDC	1.06	254	ePn	16	28.00	0.7

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

MAY 11, 1993 18h 26m 51.32± 0.09s
7.219 N ± 2.4km 126.570 E ± 2.6km
DEPTH = 58.7km (geophysicist)
6.1mb (137 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)
Mw 7 0 (GS), 7.0 (HRV). Ms 6.5 (BRK). Mo=6.3•10••19 Nm (PPT).
Felt (V RF) at Bislig ond Davao; (IV RF) ot Cagoyon de Oro ond Kidapawan; (III RF) at Cotabato. Also felt (III RF) oi Polo, Leyte and (II RF) an Comiguin Island. Depth from broodbond displacement seismagrams.
FAULT PLANE SOLUTION: P-Waves

NP1: Strike= 10	Dip=63	Slip=	90
NP2:	190	27	90

Principal Axes:

T		Plg=72	Azm=280
P		18	100

Comment: The focol mechanism is poorly controlled ond corresponds to reverse foulting. The preferred fault plane is NP2.
RADIATED ENERGY
No. of sta: 12 Focal mech. M
Energy 1.0±0.3•10••14 Nm
MOMENT TENSOR SOLUTION
Dep 43 No. of sta: 25
Moment Tensor; Scole 10••19 Nm

Mrr= 2.67	Mtt= 0.87
Mff=-3.54	Mrt= 1.56
Mrf= 0.85	Mtf= 0.90

Principal oxes:

T	Val= 3.76	Plg=58	Azm=342
N	0.00	32	174
P	-3.77	5	81

Best Double Couple: Mo=3.8•10••19
NP1: Strike=141 Dip=48 Slip= 46
NP2: 17 58 128
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 45S, ••C M.W.: 44S, ••C
Centroid Location:
Origin Time 18:26:59.7 0.1
Lat 7.07N 0.01 Lon 127.00E 0.01
Dep 46.5 0.3 Half-durotion 7.1
Moment Tensor; Scole 10••19 Nm

Mrr= 3.01	0.02	Mtt= 0.12	0.01
Mff=-3.13	0.01	Mrt= 1.12	0.03
Mrf= 0.12	0.03	Mtf=-0.77	0.01

Principol Axes:

T	Val= 3.39	Plg=71	Azm= 4
N	-0.06	19	195
P	-3.33	3	104

Best Double Couple: Mo=3.4•10••19
NP1: Strike=175 Dip=45 Slip= 63
NP2: 31 51 114

DAV	1 00	263	iP+	27	14.00	4.6X
CGP	2.23	304	iPc	27	30.50	4.0X
CTB	2.35	270	iPd	27	34.00	5.8X
			eS	27	58.00	
MAP	4.01	320	ePc	27	53.00	1.4
			iS	28	24.00	
PLP	4.22	338	ePd	27	55.00	0.3
TSM	9.13	252	ePc	29	06.90	3.9X
			e	30	45.50	
OCP	9.13	324	eP	28	31.00	-32.0X
KKM	10.35	264	ePd	29	24.00	4.2X
	1.6s	3948.90nm				7.2mb X
			e	29	51.50	
			e	31	27.00	
BCP	10.84	328	eP	29	30.00	3.4X
			eS	31	55.00	
BAG	10.85	328	eP	29	24.40	-2.3
SZP	11.88	330	iPd	29	50.00	9.7X
			eS	29	56.00	
PIP	12.47	333	iPc	29	56.00	7.8X
BBP	13.88	342	ePc	30	08.00	1.3
TATO	18.31	345	eP	31	02.83	-0.1
	0.8s	150.26nm				5.2mb
GUMO	19.07	69	(P)	31	10.18	-1.8
	1.0s	495.40nm				5.7mb
			e	31	26.40	
			eS	34	39.00	
GUA	19.10	69	P	31	10.00	-2.3
	1.0s	495.40nm				5.7mb
			S	34	39.00	
HKC	19.18	323	iP	31	13.20	0.1
			iS	34	44.00	
MCO	19.42	321	eP	31	15.80	0.1
QIZ	20.05	307	ePc	31	23.76	1.3
MNDI	21.61	128	eP	31	40.00	1.4
MDG	22.82	122	eP	31	48.80	-1.5
LEM	23.50	234	ePc	31	59.00	2.0
			eS	36	12.00	
KGM	23.74	259	ePc	32	02.80	3.6X
	1.2s	714.40nm				6.0mb
KAGJ	24.18	9	P	32	02.70	-0.7
SSE	24.28	349	iPc+	32	03.50	-0.8
	1.2s	83.00nm				5.1mb X
Z	24s	74.80um				6.1MszX
N	17s	53.60um				
E	16s	43.30um				
			pP	32	09.00	20kmX
			PcP	35	45.00	
			S	36	24.00	
			sS	36	32.00	
			ScP	39	17.40	
KLM	25.15	262	eP	32	10.50	-2.3
	0.6s	470.60nm				6.2mb
KUMJ	25.50	8	P	32	14.20	-1.6
IPM	25.54	266	ePc	32	18.00	1.6
			e	39	22.00	
PCT	25.77	289	eP	32	22.20	3.7X
	1.0s	17.50nm				4.5mb X
KSI	26 25	247	ePc	32	27.50	4.6X
			e	37	00.00	
LOE	26.26	295	eP	32	23.50	0.4
PMG	26.34	129	eP	32	22.00	-1.7
SHNJ	27 10	8	P	32	29.60	-0.9
NST	27.21	290	eP	32	33.00	1.3
TKSJ	27.52	14	P	32	33.10	-1.2
TKSJ	27.52	14	P	32	33.20	-1.1
SHK	27.76	11	ePc	32	35.00	-1.5
RAB	27.94	113	iPd-	32	37.00	-1.4
	1.0s	320.00nm				5.9mb
			iS	37	22.00	
ENH	27.98	327	ePc	32	36.69	-1.9
WRA	28.05	164	P	32	37.70	-1.6
WB2	28.06	164	iPc	32	37.20	-2.2
	0.7s	103.50nm				5.6mb
			eS	37	08.40	
			e	05	01.80	
WKYJ	28.13	16	P	32	38.60	-1.4
KHT	28.45	288	eP	32	46.40	3.5X
YONJ	28.55	12	P	32	42.60	-1.0
BDT	28.68	293	eP	32	40.00	-5.0X
	0.8s	321.90nm				6.0mb
KMI	28.90	311	ePc	32	48.36	1.1
	1.4s	820.00nm				6.2mb
Z	35s	299.50um				6.7MszX
N	20s	215.10um				
E	20s	1690.00um				
			ec	32	50.02	
			sP	33	03.00	
			PPP	34	00.00	
			iS	37	40.00	
			sS	37	56.00	
			SS	39	18.00	
MBL	28.97	193	eP	32	46.50	-1.0
CHTO	29.23	296	ePc	32	50.89	0.9
	1.2s	208.33nm				5.7mb
			ec	32	52.55	
			ec	32	55.61	
TSRJ	29.48	16	P	32	50.40	-1.6
IIDJ	29.99	19	P	32	55.60	-1.0
QIS	30.43	155	iPc	32	58.20	-2.4
			iS	37	54.50	
CHJJ	30.87	20	eP	33	01.40	-2.9
MTMJ	30.98	18	P	33	03.80	-1.6
MAJO	31.06	18	iPc	33	03.33	-2.7
	0.8s	680.61nm				6.4mb
MAT	31.06	18	iPc	33	03.10	-2.9
			eS	38	03.00	
XAN	31.28	331	iPc	33	05.37	-2.6
			epPd	33	21.26	66kmX
KAKJ	31.42	21	P	33	05.90	-3.2X
NANU	31.51	200	eP	33	09.70	-0.3
ASPA	31.52	167	iPc	33	08.00	-2.2
	0.7s	232.60nm				6.1mb
Z	22s	181.40um				6.7Msz
			eS	38	11.70	
			eScS	43	34.30	
NIIJ	31.95	19	eP	33	10.60	-3.2X
YAMJ	33.14	20	eP	33	23.00	-1.1
WARB	33.20	180	iPc	33	22.70	-2.0
CTA	33.34	145	iPd+	33	24.50	-1.5
	1.1s	148.73nm				5.8mb
			ipP	33	40.00	63kmX
			e	34	14.00	
			e	34	30.00	
			eS	38	38.00	
			iScP	39	46.00	
			iScS	43	48.00	
CTAO	33.34	145	P	33	31.80	5.8X
	1.3s	187.42nm				5.8mb
CTAO	33.34	145	ePc	33	24.92	-1.1
	1.3s	187.42nm				5.8mb
			ec	33	29.39	
			epPd	33	40.57	64kmX
BJI	33.98	346	iPc	33	29.11	-2.2
	1.0s	186.00nm				6.0mb
Z	24s	47.10um				6.1MszX
N	18s	29.90um				
			ec	33	30.93	
			ePP	34	40.00	
			ePcP	36	09.00	
			eS	38	40.00	
			eScP	39	57.00	
			eScS	43	54.50	
OFUJ	34 52	21	eP	33	34.50	-1.5
MEEK	34.53	193	eP	33	35.00	-1.2
			eS	39	04.00	
AOMJ	35.42	18	eP	33	43.20	-0.4
LZH	35.46	327	ePc	33	43.81	-0.5
	1.0s	186.00nm				6.0mb
Z	30s	225 92um				6.7MszX
E	23s	237.54um				

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ILT	70.59	19	iPc+	38	00.00	-1.9				iPS	49	26.20		KVT	85.71	311	iP	39	26.70	1.3
	1.4s	345.00nm			6.1mb					eSS	54	00.00		ARTJ	85.98	302	P	39	25.40	-1.6
			i	40	34.00		RSO	79.16	30	ePc	38	50.29	-1.1	BNN	86.07	308	iP	39	28.10	0.7
			iS	47	16.00		IMA	79.28	24	eP	38	51.70	-0.2	AFR	86.14	108	iPd	39	32.20	4.4X
			ePS	47	37.00			0.7s	88.30nm				5.8mb		1.2s	626.00nm				6.7mb
SVE	70 93	328	iPc+	38	04.00	-0.2	ERE	79.33	309	iP+	38	53.00	0.4	PPT	86.34	108	iPd	39	33.30	4.5X
	2.8s	1400.00nm			6.4mb		Z	25s	22.50um				6.4MszX		1.8s	1560.60nm				6.9mb
			iS	47	09.00					i	41	56.00		PAE	86 35	108	iPd	39	33.20	4.4X
			e	54	51.00					iPPP	43	50.00			1.9s	756.90nm				6.5mb
ARU	71.90	327	iPc	38	08.60	-1.4				iS	48	52.00		PPN	86.47	108	iPd	39	33.70	4.3X
	0.8s	600.00nm			6.6mb		CP2	79.47	29	ePc	38	52.49	-0.6		1.2s	334.40nm				6.4mb
Z	25s	46.50um			6.7MszX		CRP	79.51	29	ePc	38	51.87	-1.4	MDSJ	86.53	301	P	39	28.04	-1.7
N	23s	20.00um								e	39	04.60		KEV	86.58	340	iP	39	29.00	-0.1
E	26s	46.00um					PYA	80.37	313	iPc	38	57.00	-1.0		0.9s	49.00nm				5.7mb
			epPd	38	24.74	58kmX	Z	24s	60.20um				6.9MszX	Z	22s	41.40um				6.8Msz
			e	40	51.00		N	24s	32.20um								i	39	37.50	
			iS	47	25.00		E	24s	51.80um								e	43	00.00	
			ePS	47	59.00					i	39	05.00					eS	50	00.00	
			eSS	52	11.00					i	42	01.00					e	51	00.00	
TEH	73.80	305	eP	38	25.50	3.7X				iS	49	00.00					e	56	44.00	
OPA	73.85	70	eP	38	24.20	2.1				ePS	49	50.00					LR	24	00.00	
KIP	73.85	70	(P)	38	23.22	1.1				iPPS	50	09.00		GHZJ	86.59	300	P	39	28.06	-2.0
	0.8s	132.36nm			5.9mb		SLKM	80.41	30	eP	38	56.53	-1.4	TVO	86.67	108	iPd	39	35.10	4.6X
			ec	38	28.85		OASM	80.63	295	eP	38	59.00	-0.8		1.1s	656.40nm				6.7mb
			epPd	38	36.80	47kmX	KIV	80.64	313	iPc	38	59.44	-0.1	SIM	86.69	315	iP	39	31.00	0.9
HON	73.87	70	P+	38	27.56	5.4X				ec	39	00.84					eS	49	50.00	
Z	21s	28.54um			6.5Msz					ic	39	04.32		AAE	86.73	279	eP	39	33.00	1.7
			e	40	18.85					epPd	39	15.41	57kmX	HRI	86.78	303	iPc	39	31.60	0.6
			S	48	00.28					iS	49	03.00		BHL	86.78	304	P	39	32.00	1.1
			SS	52	51.21					ePS	49	47.00					S	49	48.00	
DHH	74.05	70	eP	38	25.58	2.3	PMR	80.98	29	eP	39	00.20	-0.6	SHMJ	86.82	302	P	39	31.33	0.3
CSY	74.25	187	iPc	38	23.40	-0.1		0.8s	311.10nm				6.3mb	WAJH	86.87	296	iPc	39	32.27	1.0
	0 6s	174.30nm			6.2mb		Z	20s	38.50um				6.8Msz	MAW	86.95	200	P	39	31.50	0.7
DRV	74.34	174	iP	38	23.50	-0.5	DHJN	81.28	287	iPc	39	04.33	0.8		1.0s	116.67nm				6.0mb
			PP	41	27.00		FBA	81.66	25	eP	39	03.10	-1.2	Z	12s	11.46um				6.5MszX
			S	47	44.00			0.8s	135.50nm				6.0mb	PUL	86.96	330	ePc+	39	30.00	-1.1
			SS	51	25.00		ABHA	81.93	287	iPc	39	09.00	2.1		3.6s	1250.00nm				6.5mb X
SDN	74.41	35	eP	38	23.70	-0 9	MID	82.36	31	eP	39	08 60	0.7	Z	22s	45.00um				6.8Msz
	0.9s	908.10nm			6.7mb		ARO	82.47	281	eP+	39	11.00	1.5	N	22s	30.00um				
Z	20s	15.00um			6.3Msz		KLU	82.52	29	iPc	39	08.64	-0.3	E	22s	22 00um				
PAF	74.63	214	iP	38	34.20	8 2X	SOC	82.80	313	iPc+	39	10.00	-0.6				i	39	40.00	
			ePP	41	27.00			3.0s	1300.00nm				6.4mb				e	42	54.00	
			iS	48	06.00		Z	24s	39.50um				6.7MszX				ePPP	44	58.00	
			eSS	52	24.00		N	26s	16.00um								e	49	54.00	
DHR	74.69	295	iPc	38	26 80	-0.1	E	26s	10.00um								eS	50	00.00	
BAK	75.21	310	iPc	38	32.00	2.4				e	42	15.00					ePS	51	06.00	
			iS	48	09.00					iS	49	18.00					e	51	40.00	
HKL	75 51	71	(P)	38	32.24	0.1				ePS	50	13.00		SALJ	86.97	302	P	39	30.05	-1.8
MHA	75.87	71	(P)	38	34.08	0.4	MOS	83.50	325	iPc	39	14.00	0.1	MASJ	86.98	301	P	39	30.22	-1.7
SHE	76.19	310	iPc+	38	36.00	0.9	Z	23s	85.00um				7.1MszX	KFNJ	87.00	302	P	39	29.91	-1.9
	1.0s	400.00nm			6.3mb		N	24s	49.00um					INK	87.00	22	eP	39	31.50	0.4
			i	41	20.00		E	24s	81.00um						0.6s	26.00nm				5.6mb
			iS	48	14.00					e	39	29.00		MKRJ	87.06	301	P	39	30.18	-2.1
MAK	77.17	312	iP+	38	40.00	-0.6				e	42	30.00		MDRJ	87.15	299	P	39	30.93	-1.8
			e	41	35.00					eS	49	30.00		LISJ	87.23	301	P	39	31.10	-1.8
			ePPP	43	23 00					ePS	50	18.00		SDF	87.28	338	iP	39	32.30	-0.2
			iS	48	23.00		OBN	84.12	325	iPc	39	16.50	-0.6	SHWJ	87.32	300	P	39	31.85	-1.9
			i	48	56.00			1.8s	1152.00nm				6.6mb	DHLJ	87.35	301	P	39	30.09	-3.4X
			ePS	49	08.00		Z	24s	78.60um				7.0MszX	NAQJ	87.36	300	P	39	33.43	-0.5
KER	77.28	304	eP	38	42 00	0.5	N	23s	23.20um					KAS	87.38	311	iPc	39	34.30	0.7
RAR	77.55	114	ePc	38	43.90	0.9	E	24s	65.50um					BGIO	87.51	301	iPc	39	35.00	0.6
	1 2s	166.21nm			5.9mb					iPcP	39	23.00		MRSJ	87.55	299	P	39	32.78	-1.9
SVW	77.83	29	eP	38	44.30	0.4				e	40	28.00		PMO	87.56	105	iPd	39	36.90	2.2
TTA	77.88	27	eP	38	43.90	-0.3				ePP	42	27.00			1.2s	52.13nm				5.6mb
TAB	77.92	307	iPc+	38	46.00	1.0				e	42	56.00		JRSJ	87.56	300	P	39	29.99	-4.6X
GRS	77.92	309	iPc+	38	45 80	0.8				iPPP	44	34.00		KBS	87.57	350	eP	39	33.50	-0.2
	1 2s	620.00nm			6.5mb					iS	49	36.00		AQBJ	87.78	300	P	39	35.30	-0.4
			eS	48	27 00					eScS	50	06.00		SBA	87.79	172	iPc	39	36.00	1.3
RYD	77.92	294	iPc	38	44.80	-0.3				iPS	50	46.00		TPT	87.82	105	iPd	39	38.20	2.2
GRO	78 46	313	iPc+	38	48.00	0.3				ePPS	51	24.00			2.3s	2451.60nm				7.0mb
	1 0s	1100.00nm			6.8mb					iSS	55	24.00		VAH	87.85	106	iPd	39	38.10	2.0
			iPPP	43	32.00					eSSS	58	46.00			1.1s	363.40nm				6.5mb
			iS	48	40.00		BALM	84.27	29	iPd	39	17.85	0.0	RMN	88.05	300	iPc	39	37.60	0.5
			iPS	49	40.00		ANN	84.45	314	iPc-	39	18.00	-0.9	RUV	88.08	105	iPd	39	39.30	2.1
			iSSS	56	58.00		Z	25s	37.00um				6.7MszX		1.1s	404.40nm				6.5mb
MJMA	79.07	295	iPc	38	51.69	0.3	N	23s	26.00um					ANTO	88.31	310	eP	39	47.41	9.3X
KDC	79.10	33	eP	38	50.70	-0 1	E	27s	48.00um						0.6s	91.64nm				6.2mb
MTA	79.10	311	iPc+	38	51.20	0.0				i	39	26.00		SIT	88.39	33	eP	39	38.67	0.7
	1.0s	770.00nm			6.6mb					e	42	38.00			1.0s	67.43nm				5.8mb
Z	20s	10.00um			6.1Msz					iS	49	40.00		KAF	88.45	332	iP	39	37.10	-1.1
N	20s	9.00um					RUWJ	84.63	302	P	39	18.81	-1.5		0.7s	114.50nm				6.2mb
E	20s	26.00um					CRZF	84.79	222	iPc	39	33.00	12.4X	CSS	88.56	305	eP	39	38.90	-0.4
			i	38	58.80					ePP	42	50 00		MBC	88.60	13	eP	39	38.50	-0.2
			i	41	56.20					iS	49	45.00			1.0s	127.00nm				6.1mb
			iPPP	43	46.20					eSS	55	27.00		TRO	89.33	341	eP	39	41.45	-0.8
			iS	48	48.20		SHBJ	85.13	302	P	39	22.46	-0.3	PPCY	89.37	305	eP	39	43.60	0.5
			e	49	04.20		GAZ	85.18	307	iP	39	24.40	1.6	MNK	89.50	324	iP	39	42.00	-1.3

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KMR	99.29	321	iP+	40	28.90	0.6				SS	58	52.62					1.1s	89.70nm		6.4mb									
			iPP	44	37.50		WDC	100.87	46	ePdiff	40	33.00	-2.6X		BLF	102.53	242	ePdiff	40	33.50	-9.9X
LCI	99.30	313	P	40	28.20	-0.2		Z 21s		16.00um			6.5Msz		MHC	102.60	49	ePdiff	40	41.14	-2.4
GLK	99.45	40	P	40	29.40	0.2				ePP	44	40.00				Z 22s		20.00um			6.6Msz
HVAR	99.47	316	e(P)	40	30.30	1.1				eS	52	06.00						ePP	44	59.14								
VBY	99.49	318	ePDIF	40	29.20	0.0				ePPS	54	41.00						eS	51	46.14								
VLMM	99.53	42	P	40	30 16	0.6				eSS	59	13.00						ePPS	54	04.14								
DBO	99.54	44	P	40	30.45	0.8				eSSS	02	33.00						eSS	59	17.14								
WET	99.65	322	eP	40	30.00	0.0				eSSSS	06	27.00						eSSS	03	15.14								
	Z 21s		42.00um			6.9Msz				eLQ	08	16.00						eSSSS	06	41.14								
ARC	99.67	47	eP	40	30.89	0.8				eLR	12	01.00						eLQ	08	41.14								
	Z 21s		10.00um			6.3Msz	ACI	100.89	312	Pdiff	40	37.70	2.0					eLR	13	19.14								
			ePP	44	34.89		GRI	100.90	312	Pdiff	40	35.86	0.1		COE	102.60	49	(Pdiff	40	46.13	2.8
			eS	51	35.89			0.8s		67.20nm			6.3mb		HOFF	102.67	324	Pdiff	40	44.39	1.1
			ePPS	53	35.89		OD2	100.97	39	Pdiff	40	36.11	0.2		ARN	102.68	49	ePdiff	40	43.83	0.1
			eSS	58	11.89		CZI	100.98	312	Pdiff	40	36.00	0.0		DBN	102.74	327	iPdiff	40	44.00	0.5
			eLQ	08	00.89		JBO	101.00	41	Pdiff	40	37.95	1.9			Z 24s		35.40um			6.8MszX
			eLR	12	43.89		FUR	101.02	322	ePdiff	40	36.00	0.0					iPP-	44	54.00			
BRT	99.68	313	P	40	29.50	-0.7		Z 25s		48.00um			6.9MszX					eSKS	51	24.00			
NLW	99.69	39	P	40	31.07	0.7	LBFM	101.08	46	ePdiff	40	36.66	-0.1					ePS	54	00.00			
LJU	99.77	319	ePDIF	40	29.00	-1.5	DPW	101.09	38	ePdiff	40	36.39	-0.1					eSS	00	50.00			
			e	43	22.50		MGR	101.11	313	Pdiff	40	34.90	-1.7		LANF	102.75	324	Pdiff	40	44.57	0.8
			ePP	44	37.00		WTTA	101.16	321	iPdiff	40	36.10	-0.8		FIR	102.78	318	ePdiff	40	45.00	1.1
			e	46	48.00			0.8s		48.30nm			6.2mb					iPP	45	10.00			
			eSKS	51	10.00					i	40	37.50						iS	51	27.00			
			eSDIF	52	00.00					i	40	43.20			SLE	102.88	322	ePdiff	40	43.60	-0.8
MOX	99.80	324	ePc+	40	30.60	0.0				iPP	44	45.40			LBTB	102.93	246	ePdiff	40	44.90	-0.3
	1.8s		126.00nm			6.2mb				i	44	51.10						ec	40	48.55			
	Z 21s		33.00um			6.8Msz				iSKS	51	16.20						ed	40	55.17			
			eSKS	51	11.00		WATA	101.16	321	iPdiff	40	36.10	-0.8					ed	41	00.47			
			eS	52	11.00					i	40	37.30			LBTB	102.93	246	ePdiff	40	45.15	-0.1
NAC	99.89	40	P	40	31.48	0.4				i	40	47.70						ec	40	48.46			
LSZ	99.92	256	iP	40	31.00	-0.8	SEK	101.24	243	ePdiff	40	37.00	-0.7					e	40	55.09			
			i	45	03.00		SOI	101.41	311	Pdiff	40	38.60	0.6					e	41	00.05			
			i	47	04.00		SOTA	101.44	321	iPdiff	40	37.30	-0.8		SAO	102.94	50	ePdiff	40	44.93	0.1
			i	51	11.00			0.7s		28.60nm			6.0mb			Z 22s		11.00um			6.3Msz
CEY	99.95	319	ePDIF	40	30.60	-0.8				i	40	38.60						ePP	44	53.93			
VBEM	100.00	42	P	40	31.92	0.1				i	40	44.40						eS	51	33.93			
BPO	100.07	42	Pdiff	40	33.23	1.0	MOTA	101.46	321	iPdiff	40	37.10	-1.1					ePPS	54	00.93			
WTV	100.08	39	Pdiff	40	31.79	-0.1		1.1s		67.00nm			6.2mb					eSS	58	46.93			
RIY	100.12	318	e(Pdif	40	27.90	-4.1X				i	40	38.50						eSSS	03	24.93			
KBA	100.15	320	iPdiff	40	31.50	-0.9				i	40	44.30						eSSSS	06	39.93			
	0.8s		30.50nm			5.9mb	GMB	101.52	311	Pdiff	40	39.25	0.6					eLQ	08	57.93			
			i	40	32.70			1.8s		199.00nm			6.5mb					eLR	13	19.93			
			iPP	44	40.80		NEW	101.59	38	ePdiff	40	38.42	-0.2		SAO	102.94	50	Pdiff	41	00.00	15.1X
			iSKS	51	09.50			0.8s		75.52nm			6.4mb			Z 21s		14.26um			6.5Msz
GL2	100.17	41	Pdiff	40	32.39	0.0		Z 21s		22.05um			6.7Msz		LLS	102.96	321	ePdiff	40	44.90	-0.1
VOY	100.19	319	ePdiff	40	31.80	-0.7	WIT	101.60	328	e(Pdif	40	45.50	7.1X		ENN	102.99	326	iPdiff	40	45.80	1.1
			eSKS	51	14.00		CTI	101.63	320	Pdiff	40	39.20	0.3			0.9s		14.20nm			5.7mb
BHG	100.20	321	ePdiff	40	32.90	0.5	ARV	101.76	317	Pdiff	40	39.30	-0.2					e	40	50.00			
	1.2s		44.00nm			5.9mb	KSR	101.79	245	ePdiff	40	41.00	0.8					e	43	53.00			
RBL	100.25	320	Pdiff	40	32.80	0.1	SDI	101.81	315	Pdiff	40	39.40	-0.4		ZLA	103.07	322	ePdiff	40	44.90	-0.3
TCO	100.32	43	Pdiff	40	34.63	1.3	AOU	101.86	316	Pdiff	40	39.40	-0.6		BDI	103.11	318	Pdiff	40	49.70	4.2X
VGB	100.37	41	ePdiff	40	33.07	-0.2	WTS	101.91	327	ePdiff	40	41.00	1.2		FEL	103.12	323	Pdiff	40	45.93	0.4
TRI	100.39	319	ePdiff	40	33.30	0.0		1.0s		12.80nm			5.5mb		WLS	103.27	323	Pdiff	40	46.18	0.1
			ePP	44	34.70					e	40	45.50			PII	103.29	318	Pdiff	40	45.50	-0.7
			ePPP	46	52.00		RSM	101.93	318	Pdiff	40	42.00	1.9		FRS	103.29	241	ePdiff	40	46.10	-0.4
			eSKS	51	14.50		ORV	101.96	47	ePdiff	40	40.47	0.0		CMB	103.30	48	ePdiff	40	38.68	-7.8X
			eSKKS	51	28.00		AZI	101.97	316	Pdiff	40	40.40	0.0			Z 22s		21.00um			6.6Msz
			eSP	53	32.00		BKS	101.98	49	ePdiff	40	38.09	-2.5					ePP	45	03.68			
			eSS	58	48.00			Z 22s		16.00um			6.5Msz					eS	51	41.68			
			e	00	40.00					ePP	44	52.09						ePPS	54	09.68			
SAW	100.42	39	Pdiff	40	33.33	-0.1				eS	51	27.09						eSS	58	53.68			
CROR	100.42	42	Pdiff	40	33.91	0.4				ePPS	54	00.09						eSSS	03	05.68			
GRF	100.42	323	ePdiff	40	33.80	0.4				eSS	58	36.09						eSSSS	06	52.68			
	1.0s		47 00nm			6.0mb				eSSS	03	05.09						eLQ	09	10.68			
	Z 22s		35.00um			6.8Msz				eSSSS	06	28.09						eLR	13	48.68			
			e	40	41.00					eLQ	08	35.09			CMB	103.30	48	ePdiff	40	47.18	0.7
			e	41	05.80					eLR	13	10.09				1.0s		13.38nm			5.7mb
			ePP	44	38.50		ASS	102.11	317	Pdiff	40	41.90	0.8			Z 21s		18.76um			6.6Msz
EPH	100.43	39	Pdiff	40	33.59	0.1	STAN	102.18	49	ePdiff	40	35.71	-5.7X					PP	45	04.31			
SLR	100.54	245	ePdiff	40	36.50	1.9		Z 22s		18.00um			6.5Msz					PS	54	07.18			
	Z 20s		26.00um			6.7Msz				ePP	44	48.71						e	55	13.34			
ROI	100.55	312	Pdiff	40	34.40	0.2				eS	54	08.71						SS	59	15.21			
LGPM	100.55	46	(Pdiff	40	35.01	0.7				eLR	13	08.71						PKKS	03	23.95			
CSI	100.69	313	Pdiff	40	34.60	-0.2	BNS	102.20	326	iPdiff	40	42.70	1.5					P'P'	09	17.14			
TDS	100.69	313	Pdiff	40	34.30	-0.5		Z 22s		94.00um			7.3Msz		CDF	103.32	323	Pdiff	40	46.69	0.3
FVI	100.70	320	Pdiff	40	33.70	-0.9				e+	44	45.50			TMA	103.37	321	ePdiff	40	47.20	0.4
CRF	100.77	40	Pdiff	40	35.36	0.4	GRM	102.27	238	e(Pdif	40	47.00	5.0X		WLF	103.39	325	iPdiff	40	48.30	1.8
GBL	100.81	40	Pdiff	40	35.60	0.5		Z 20s		42.20um			7.0Msz			1.3s		29.00nm			5.9mb
VIPM	100.84	42	Pdiff	40	35.49	-0.1	OSS	102.32	321	ePdiff	40	42.20	0.1					id	40	54.59			
WDC	100.87	46	Pdiff	40	50.00	14.4X	SFI	102.33	318	Pdiff	40	43.80	1.9		FAI	103.45	311	Pdiff	40	49.30	2.2
	Z 22s		22.72um			6.6Msz	MNS	102.35	316	Pdiff	40	40.80	-1.3		ECH	103.48	323	Pdiff	40	47.22	0.2
WDC	100.87	46	Pdiff+	40	37.83	2.3	CRE	102.37	317	Pdiff	40	42.00	-0.3		VAI	103.53	321	Pdiff	40	46.70	-0.5
	Z 22s		22.72um			6.6Msz	PGD	102.43	318	Pdiff	40	44.20	1.5		BOB	103.57	319	Pdiff	40	50.70	3.1X
			PP	44	44.03			1.0s		38.70nm			6.1mb		MOF	103.66	323	Pdiff	40	48.23	0.3
			PS	54	39.91		MNO	102.47	311	Pdiff	40	43.90	0.9		UCC	103.84	326	Pdiff+	40	49.00	0.5

11d 18h

			e	45	10.00			DUG	107.87	44	PKP	45	30.00	15.7X		EGUA	116.02	317	ePKP	45	28.70	-1.1	
			S	51	29.00				Z 21s		12.29um			6.4Msz		ELUO	116.09	318	ePKP	45	30.00	0.1	
			e	54	12.00			DUG	107.87	44	PKP	45	06.98	-7.3X		JAQ	116.36	15	ePKP	45	28.50	-1.4	
BSF	103.87	323	ePdiff	40	49.00	0.1			Z 21s		12.29um			6.4Msz		EHOR	116.59	319	ePKP	45	31.50	0.7	
	0.8s		18.55nm			6.0mb					PS	54	48.41			MAL	116.64	317	Pdiff	41	46.00	0.2	
MMK	103.96	321	ePdiff	40	49.70	0.2					P'P'	03	21.25			EPRU	117.06	318	ePKP	45	32.50	0.7	
SNF	104.02	326	Pdiff	40	50.60	1.3		DUG	107.87	44	ePdiff	41	07.62	0.7		EJIF	117.51	318	ePKP	45	33.30	0.7	
PHAM	104.04	50	(Pdiff	40	48.24	-1.6					e	41	11.18			EVAL	117.71	319	ePKP	45	34.20	1.3	
HAU	104.06	323	ePdiff	40	49.60	0.0		CAF	108.15	322	ePdiff	41	07.20	-0.7		ACO	118.85	41	iPKPc	45	35.50	0.3	
	0.7s		8.25nm			5.7mb			1.4s		21.80nm			6.1mb		IFR	118.87	315	iPKP	45	37.00	1.5	
	Z 28s		46.00um			6.9MszX		RJF	10B.28	323	ePdiff	41	09.40	1.0		LTX	119.56	51	ePKP	45	36.79	0.0	
LOMF	104.07	323	Pdiff	40	49.84	0.1			0.9s		16.05nm			6.2mb					ePKKP	355	46.59		
DIX	104.29	321	ePdiff	40	50.90	-0.1		LPF	108.29	326	ePdiff	41	09.80	1.4					ePKKP	255	50.13		
BCH	104.50	51	ePdiff	40	53.59	1.6			1.2s		29.15nm			6.3mb		MEO	120.33	43	iPKPd	45	38.10	0.0	
EMS	104.60	321	ePdiff	40	53.30	1.1		FRB	108.31	7	ePdiff	41	14.50	6.5X		OCO	120.63	41	iPKPd	45	41.20	2.6	
PGF	104.79	317	ePdiff	40	49.00	-4.1X			1.0s		4.00nm			5.5mb		FNO	120.84	41	iPKPd	45	39.10	0.1	
	0.7s		22.95nm			6.2mb		FRB	108.31	7	ePKP	45	14.50	0.4		EEO	121.72	21	ePKP	45	42.50	2.2	
NVL	104.80	198	(Pdiff	40	54.00	1.7			0.9s		9.00nm					TIO	121.78	313	iPKP	45	40.50	-0.6	
	Z 22s		25.00um			6.7Msz		BW06	108.83	40	ePKP	45	16.46	0.3		CCM	122.83	35	ePKPd	45	42.92	0.3	
	N 22s		10.00um								ePKKP	356	15.66			CCM	122.83	35	ePdiff	42	14.26	0.9	
	E 22s		20.00um								ePKKP	56	32.80			SLM	122.99	34	Pdiff	42	09.34	-4.7X	
			ePP	45	10.00			BW06	108.83	40	(Pdiff	41	11.64	0.4		SLM	122.99	34	PKP	45	33.57	-9.4X	
			ePPP	47	18.00				1.6s		4.21nm			5.4mb			Z 21s		44.59um			7.1Msz	
			iSKS	51	31.00			DAU	108.83	43	ePdiff	41	15.22	3.8X					PP	47	11.85		
			e	52	16.00						ePKKP	356	25.30						PS	57	09.87		
			ePS	54	16.00						ePKKP	56	40.26			FVM	123.34	35	Pdiff	42	18.32	2.7	
			eSS	59	06.00			MSU	109.05	45	ePdiff	41	13.71	1.4		FVM	123.34	35	ePKPc	45	42.55	-1.1	
			eSSS	03	50.00			MSU	109.05	45	ePKP	45	17.32	0.6			Z 20s		29.11um			6.9Msz	
PTS	104.88	311	Pdiff	40	52.27	-1.2					ePKKP	356	26.06			UYO	123.42	41	iPKPd	45	43.50	-0.4	
	0.1s		22.90nm			7.1mb					ePKKP	56	40.26			GAC	123.74	18	ePKP	45	44.50	0.3	
LPG	104.97	321	ePdiff	40	54.30	0.2		SNA	109.18	196	e(PKP)	45	19.50	3.9X		MIAR	123.75	40	ePdiff	42	17.57	0.1	
	0.8s		33.60nm			6.4mb			1.3s		60.00nm					MIAR	123.75	40	ePKPd	45	44.60	0.0	
LPL	104.97	321	ePdiff	40	54.30	0.3		GLA	109.34	51	ePdiff	41	15.04	1.6			Z 19s		14.15um			6.6Msz	
	0.8s		28.05nm			6.3mb		GLA	109.34	51	ePKP	45	18.11	0.9					PP	47	21.45		
ESK	105.10	333	ePdiff	40	54.10	0.1		EMUT	109.41	43	ePKP	45	18.25	0.9					PS	57	11.78		
			ec	40	58.24			SRU	109.93	44	ePdiff	41	16.11	-0.1					PKKS	58	59.12		
			ed	41	05.27			SRU	109.93	44	ePKP	45	18.46	0.1		ELF	123.80	24	PKP	45	44.35	-0.1	
SBF	105.26	319	ePdiff	40	54 60	-0.5					ePKKP	356	23.97			ACTO	123.95	23	PKP	45	44.79	0.1	
	0.9s		24.10nm			6.2mb		ESEL	110.15	317	ePKP	45	19.20	0.8		DLA	123.97	25	PKP	45	44.60	-0.1	
ISA	105.57	50	Pdiff+	40	58.67	2.0		VAL	110.48	333	Pdiff	41	20.00	2.0		LDN	123.98	24	PKP	45	44.60	-0.2	
ISA	105.57	50	PKP	45	19.34	9.3X		WIN	110.69	249	e(Pdiff	41	03.00	-16.9X		WLVO	124.31	22	PKP	45	45.33	0.0	
	Z 20s		18.28um			6.6Msz			Z 22s		120.00um			7.4Msz		OLY	124.43	38	ePKP	45	44.70	-1.2	
			PS	54	35.22						e	45	20.00			TYNO	124.46	23	PKP	45	45.40	-0.3	
			PKKS	59	48.41			EGRA	111.04	320	ePKP	45	24.00	4.0X		ELC	124.51	34	ePKP	45	44.29	-1.7	
			SKKS	03	58.27			PV09	111.18	44	ePKP	45	21.63	0.8		CBM	124.53	12	ePKP	45	45.64	0.0	
CGL	105.88	314	Pdiff	40	59.29	1.3					ePKKP	356	18.94				Z 21s		15.10um			6.6Msz	
	0.7s		4.40nm			5.6mb		PV09	111.18	44	ePdiff	41	22.65	0.8		STCO	124.63	23	PKP	45	45.90	-0.1	
LCCM	105.88	38	ePdiff	40	59.30	1.3		EBR	111.23	319	ePdiff	41	21.00	-0.6		GRT	125.12	35	(PKP)	45	48.00	0.9	
LOR	105.89	323	ePdiff	40	57.70	0.0		PV10	111.30	44	ePdiff	41	22.13	-0.3		HNME	125.29	12	ePKP	45	47.77	0.6	
	0.9s		10.15nm			5.8mb					e	44	55.77			MIM	125.93	14	ePKP	45	49.16	0.7	
	Z 26s		45.00um			6.9MszX		PV10	111.30	44	ePKP	45	21.54	0.5		BNH	125.9B	16	ePKP	45	45.07	-3.6X	
FRF	105.91	319	ePdiff	40	56.80	-1.1					ePKKP	356	19.29			BNH	125.9B	16	ePKP	45	49.33	0.7	
	0.8s		10.90nm			5.9mb		PV08	111.48	44	(Pdiff	41	27.40	4.1X		LMN	126.20	10	ePKP	45	51.50	2.5	
LBF	105.96	323	ePdiff	40	58.30	0.2		PV08	111.48	44	ePKP	45	21.77	0.3		MCWV	127.35	26	PKP-	45	58.27	6.9X	
	0.7s		14.75nm			6.1mb					ePKKP	356	16.31				Z 21s		13.59um			6.6Msz	
LRG	106.14	319	ePdiff	40	57.40	-1.5					ePKKP	56	28.49						PP	47	52.32		
	0.9s		16.40nm			6.1mb		RSSD	111.53	37	ePKP	45	20.73	-0.5					PS	57	58.59		
	Z 26s		70.00um			7.1MszX					PP	46	08.47			HRV	127.82	17	ePdiff	42	39.37	3.9X	
SSF	106.20	323	ePdiff	40	59.50	0.4					PS	55	40.04						ec	42	44.67		
	0.8s		13.85nm			6.1mb		RSSD	111.53	37	(Pdiff	41	24.21	1.0		HRV	127.82	17	ePKPc	45	50.63	-1.5	
SMF	106.21	323	ePdiff	40	59.30	0.1		ULM	111.98	28	ePKP	45	23.50	2.0		III	127.95	60	(PKP)	45	53.00	-0.4	
	0.9s		17.85nm			6.1mb		ECRI	112.18	322	ePKP	45	24.90	2.6		CRNY	128.30	19	ePKP	45	53.02	-0.1	
PAS	106.34	51	iPdiff	40	59.75	-0.3		TUC	112.76	51	ePdiff	41	31.38	2.6		GBTN	12B.44	32	ePKP	45	53.54	-0.1	
			ec	41	09.11			TUC	112.76	51	ePKP	45	24.18	0.5					e	49	20.25		
CDR	106.43	319	ePKP	45	19.20	7.9X			Z 21s		22.00um			6.7Msz		GBTN	128.44	32	ePKP	45	44.54	-9.1X	
AVF	106.43	323	ePdiff	41	00.20	0.1					PP	46	14.51			PAL	128.45	20	ePKP	45	51.99	-1.4	
	0.7s		16.85nm			6.2mb					PS	55	44.29			PNJ	128.46	20	PKP	45	54.50	1.1	
FCC	106.60	21	ePdiff	41	08.00	7.4X		ECHE	112.82	318	ePKP	45	24.00	0.4		GMTN	128.47	20	iPKP	45	55.00	1.5	
FCC	106.60	21	ePKP	45	15.50	4.4X		ETOR	112.88	320	ePKP	45	24.50	0.8		NAV	12B.84	28	ePKP	45	44.04	-10.3X	
TPNV	106.76	48	Pdiff	41	18.20	16.1X		GOL	113.11	41	Pdiff+	41	32.01	1.6		NAV	12B.84	28	ePKP	45	54.21	-0.2	
	Z 21s		16.27um			6.6Msz		GOL	113.11	41	iPKPd	45	24.7B	0.4					eSKP	49	09.45		
TPNV	106.76	48	(Pdiff	41	04.57	2.5			Z 18s		8.17um			6.4Msz		BLA	129.10	28	ePKP	45	41.29	-13.6X	
	Z 21s		16.27um			6.6Msz					PP	46	15.93			BLA	129.10	28	ePKP	45	54.96	0.1	
GSC	106.97	50	ePdiff	41	04.07	1.1					e	55	42.54						ePP	47	55.10		
GSC	106.97	50	ePKP	45	13.75	1.1					PKKP	07	38.97						eSKP	49	10.80		
SUR	107.13	238	ePdiff	41	23.00	19.1X		GLD	113.18	41	(PKP)	45	23.29	-1.2					ePKKP	55	59.95		
MAF	107.18	323	ePdiff	41	04.00	0.5			Z 18s		12.02um			6.5Msz		CVL	129.34	26	ePKP	45	41.47	-13.7X	
	1.1s		14.90nm			6.0mb		GUD	114.30	321	ePKP	45	28.00	1.4		CVL	129.34	26	ePKP	45	55.41	0.2	
HVU	107.19	42	ePdiff	41	04.93	1.1		EVIA	114.34	318	ePKP	45	26.00	-0.7		IISM	129.46	58	(PKP)	45	56.00	0.1	
HVU	107.19	42	ePKP	45	13.38	0.4		ANMO	114.77	46	ePdiff	41	37.92	0.1		KIC	129.59	284	PKP	45	39.40	-17.0X	
PEC	107.22	51	ePdiff	41	04.79	0.8		ENIJ	115.02	316	ePKP	45	27.50	-0.4		KIC	129.59	284	PKP	45	56.80	0.4	
	1.2s		19.94nm			6.1mb		PAB	115.04	320	ePdiff	41	38.91	0.1			0.6s		84.00nm				
TCF	107.36	323	ePdiff	41	04.90	0.6					ec	41	43.54						PKS	49	12.00		
	0.7s		9.50nm			6.0mb		ERUA	115.09	324	ePKP	45	29.00	1.2		CBN	129.61	25	e(PKP)	45	56.00	0.3	
PFO	107.87	51	ePdiff	41	08.10	1.1		STS	115.60	325	ePKP	45	30.50	1.7					e	49	16.00		
			ec	41	13.48			ECOG	115.78	317	ePKP	45	29.50	0.1		TIC	129.78	285	PKP	45	57.20	0.4	
			ed	41	21.76			EPLA	115.84	321	ePKP	45	29.00	-0.4					PKS	49	14.50		

LIC	129.90	284	PKP	45	57.30	0.3
	Z 20s		13.20um			6.6Msz
			PKS	49	15.00	
TBT	130.54	318	(Pdiff	42	52.06	4.1X
GOGA	130.54	33	(PKP)	45	58.38	0.7
	Z 21s		11.97um			6.6Msz
PRM	130.62	32	(PKP)	45	45.22	-12.6X
PRM	130.62	32	ePKP	45	58.43	0.6
			iSKP	49	15.89	
CEH	130.79	28	ePKPc	45	57.08	-1.0
	Z 21s		10.85um			6.5Msz
			ec	46	01.06	
			PP	48	06.45	
			e	49	16.79	
			PKKS	59	00.39	
CEH	130.79	28	ePKP	45	45.95	-12.1X
OXX	130.86	60	iPKP	46	01.20	2.3
JSC	131.04	31	ePKP	45	43.36	-15.2X
JSC	131.04	31	ePKP	45	58.31	-0.2
			ePP	48	14.79	
SGS	132.28	31	(PKP)	46	02.28	1.4
			e	48	23.76	
			iSKP	49	23.01	
HBF	132.55	31	(PKP)	46	04.25	2.8
			e	48	29.79	
			e	49	24.84	
PMM	133.48	58	(PKP)	45	55.20	-8.4X
MBO	137.93	301	ePKP	46	11.60	-0.5
PCJ	145.87	43	iPKPd	46	26.65	0.7
GWJ	145.93	42	iPKPd	46	27.94	1.7
HOJ	145.97	42	iPKPd	46	28.16	2.0
YHJ	146.22	42	iPKPd	46	27.91	1.3
DVD	147.16	62	ePKP	46	38.38	10.2X
ECO	149.08	58	iPKPd	46	35.19	3.9X
RFA	149.28	155	ePKPc	46	31.50	0.4
UPA	149.41	59	iPKPc	46	31.41	-0.3
			e	46	42.23	
UPA	149.41	59	ePKPc	46	35.70	4.0X
APR	151.32	27	(PKP)	46	40.00	5.6X
LRS	151.40	27	(PKP)	46	35.00	0.4
RTBS	151.45	150	ePKPc	46	41.10	6.8X
MGP	151.54	28	(PKP)	46	36.00	1.2
RTCV	151.72	152	e(PKP)	46	35.00	0.2
LPR	151.82	26	(PKP)	46	40.00	4.7X
RTCB	151.91	151	ePKPc	46	35.40	0.2
ZON	151.92	152	iPKPd	46	42.40	7.3X
CPD	152.04	26	PKP	46	35.50	-0.1
CFA	152.07	152	ePKPc	46	42.20	6.9X
LPA	152.13	172	ePKP+	46	36.00	0.8
	0.8s		453.73nm			
	Z 20s		17.02um			6.9Msz
			ePP	50	28.00	
RTLL	152.20	152	ePKPd	46	36.50	1.0
MRA	152.45	157	ePKP	46	36.20	0.5
RTPR	153.96	154	e(PKP)	46	38.10	0.2
BPA	154.49	19	ePKP	46	38.00	-1.0
PSO	154.74	72	ePKP	46	41.00	1.1
PAG	155.50	19	ePKP	46	40.00	-0.4
CYA	155.87	153	ePKPd	46	41.00	0.4
FUQ	156.14	59	ePKP	46	43.00	1.2
BOG	156.28	61	ePKP	46	44.00	2.0
DPMT	156.32	19	ePKP	46	46.00	4.6X
NNA	156.44	103	iPKPc	46	42.00	0.3
	1.0s		90.00nm			
	Z 22s		12.96um			6.7Msz
			e	50	50.00	
TOV	156.53	44	ePKP	46	43 00	1.1
SDV	156.55	47	iPKPd	46	42.60	0.5
ANT	156.88	137	ePKP	46	46.00	4.0X
FDF	156.89	19	ePKPc	46	44.70	2.5
FSA	157.73	149	ePKP	46	44.60	1.7
CAR	157.85	38	iPKPd	46	44.00	0.4
ARE	160.10	119	ePKP	46	48.00	1.8
TPR	160.31	22	ePKP	46	48 00	1.9
HJA	160.37	145	ePKPc	46	50.00	4.1X
TRN	160 56	24	ePKP	46	47.00	0.7
YJA	161.12	143	ePKPc	46	49.00	1.7
CNCB	162.88	125	iPKPc	46	50.80	1.5
			i	56	49.20	
LPB	162.93	124	PKPc	46	49.30	0.1
	1.0s		280.00nm			
ZOBO	163.05	123	iPKPc	46	50.42	0.9
			ec	46	54.56	
			ePKPab	47	39.99	
VAO	163.12	201	ePKP	46	51.00	2.2
			e	47	45.00	
CCH	164.01	130	PKP	46	55.60	5.5X
CACB	164.24	204	ePKP	46	50.80	0.8
			e	46	57.40	
			e	47	18.90	
			e	47	46.70	
			e	48	18.70	
			eS	58	20.90	
PPD	165.13	188	ePKP	46	51.80	1.2
			e	47	52.10	
RIFB	165.99	204	ePKP	46	46.10	-5 3X
			e	46	52.00	
			e	47	58.00	
SIV	168.51	140	iPKPc	47	07.00	13.7X
BAO	170.08	212	ePKP	46	53.90	-0.4
			i	46	59.80	
			i	48	10.80	
			e	48	28.90	
			i	52	13.30	
			e	52	17.40	
			e	58	50.90	

S.D. = 1.1 on 630 of 726 obs.

% MAY 11, 1993 19h 09m 15.39± 1.49s
47.064 N ±22.6km 5.396 E ±11.9km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.1 (LDG).

LBF	0.97	266	Pg	09	34.20	0.3
			Sg	09	47.40	
LOR	1.07	282	Pg	09	35.70	0.2
			Sg	09	50.60	
HAU	1.14	34	Pg	09	36.10	-0.7
			Sg	09	51.20	
SMF	1.15	249	Pg	09	36.30	-0.6
			Sg	09	52.80	
BSF	1.22	50	Pg	09	37.40	-0.8
			Sg	09	52.80	
SSF	1.29	271	Pn	09	38.80	-0.5
			Pg	09	39.70	
AVF	1.43	260	Pg	09	41.90	0.6
			Sg	10	00.80	
CDF	1.85	43	Pg	09	49.00	1.5
			Sg	10	12.10	

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

• MAY 11, 1993 20h 19m 28.76± 0.50s
28.809 S ± 5.1km 67.263 W ± 9.0km
DEPTH = 153.2 ± 13.9 km
LA RIOJA PROVINCE, ARGENTINA (138)

CYA	1.34	75	ePc	19	56.70	-0.6
			S	20	15.70	
RTPR	1.63	156	eP	20	01.00	0.8
			S	20	22.10	
RTLL	2.72	202	iPd	20	13.00	-0.3
			S	20	45.50	
CFA	2.91	197	iPd	20	15.50	-0.2
			S	20	50.50	
FSA	2.93	23	iPc	20	16.10	0.2
RTCB	2.98	206	iPc	20	16.80	0.2
			S	20	51.00	
ZON	2.99	204	eP	20	16.80	0.1
			eS	20	52.80	
RTCV	3.23	200	iPc	20	19.70	-0.1
RTBS	3.42	213	ePc	20	22.70	0.6
			S	21	02.30	
TCA	3.42	138	ePc	20	22.20	-0.1
			S	21	01.50	
MRA	3.83	160	ePc	20	27.80	0.3
			S	21	11.00	
SLA	4.36	22	ePc	20	34.80	0.1
RFA	6.03	189	ePc	20	56.00	-0.9
YJA	6.80	14	ePc	21	07.00	-0.7
SIV	13.98	25	eP	22	42.00	0.6
			i	22	53.00	

S.D. = 0.5 on 15 of 15 obs.

• MAY 11, 1993 20h 22m 58.18± 0.82s
6.694 N ±12.9km 127.047 E ±16.1km
DEPTH = 33.0km (normal)
4.1mb (3 obs.)
PHILIPPINE ISLANDS REGION (248)

CTB	2.87	280	eP	23	43.00	0.4
CGP	2.92	307	iPc	23	42.50	-0.8
			iS	24	17.00	
PLP	4.89	335	ePd	24	11.80	0.5
WRA	27.43	165	P	28	43.20	0.1
	0.5s		0.90nm			3.7mb
QIS	29.76	156	iPc	29	03.40	-0.7
ASPA	30.91	168	eP	29	14.70	0.5
	0.4s		3.80nm			4.5mb
STK	40.79	161	iPd	30	38.30	0.1
	0.8s		3.30nm			4.1mb

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

% MAY 11, 1993 20h 45m 44.00± 0.99s
38.164 S ±12.7km 175.975 E ± 9.8km
DEPTH = 190.0km (geophysicist)
NORTH ISLAND, NEW ZEALAND (159)

URZ	0.90	96	P	46	11.50	-0.8
			S	46	31.60	
MOZ	0.98	249	eP	46	14.00	1.1
NGZ	1.05	196	P	46	15.20	1.6
CNZ	1.09	198	P	46	15.00	1.2
PAHZ	1.10	130	P	46	14.20	0.5
MOH	1.33	137	P	46	16.60	1.0
TTH	1.53	154	P	46	18.90	1.6
WAHZ	1.56	169	P	46	18.90	1.2
NOZ	1.68	106	P	46	18.80	0.0
PUZ	1.80	88	P	46	18.70	-1.4
			S	46	43.70	
MAHZ	1.81	125	eP	46	20.70	0.6
BSZ	1.82	206	P	46	21.60	1.3
HBZ	1.93	74	P	46	19.80	-1.5
TEHZ	1.94	161	P	46	22.30	0.8
MNG	2.48	189	P	46	27.70	0.2
			S	47	00.00	
KIW	2.82	197	P	46	31.10	-0.3
MTW	3.01	187	P	46	33.00	-0.7
CAW	3.02	193	P	46	33.60	-0.2
DIW	3.08	210	P	46	34.00	-0.5
MRW	3.22	197	P	46	35.60	-0.6
			S	47	15.20	
BLW	3.22	187	P	46	35.50	-0.8
MOW	3.30	189	P	46	36.30	-0.9
TCW	3.32	203	P	46	36.90	-0.5
THZ	4.30	212	eP	46	49.50	-0.4
			eS	47	40.40	
KHZ	4.64	203	P	46	53.10	-1.0
			eS	47	45.70	
LTZ	5.41	210	eP	47	02.70	-1.5

S.D. = 1.0 on 26 of 26 obs.

% MAY 11, 1993 21h 22m 10.83± 0.49s
38.086 N ± 5.8km 14.192 E ± 4.2km
DEPTH = 10.0km (geophysicist)
SICILY (398)
MD 3.1 (ROM).

GIB	0.16	234	P	22	12.80	-1.8
			eSg	22	14.90	
MNO	0.43	111	P	22	19.00	-0.6
			eSg	22	27.40	
MCT	0.63	224	P	22	24.39	0.7
ATN	1.00	85	P	22	29.80	-0.1
MEU	1.14	149	P	22	31.40	-0.9
CVT	1.18	250	P	22	33.60	0.8
PZI	1.20	151	P	22	34.75	1.5
ERC	1.27	268	P	22	34.50	0.1
GMB	1.32	86	P	22	35.58	0.3
SOI	1.47	90	P	22	38.10	0.8
CZI	1.89	53	P	22	42.50	-1.0
GRI	1.90	67	P	22	42.77	-0.8
MGR	2.31	27	P	22	49.60	0.1
CSI	2.35	43	P	22	51.30	1.2
ROI	2.38	51	P	22	50.20	-0.3

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

% MAY 11, 1993 21h 29m 16.34± 0.55s
31.391 S ±11.2km 68.015 W ± 6.6km
DEPTH = 100.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

CFA	0.29	222	ePc	29	31.00	-0.1
			S	29	42.00	
RTLL	0.39	279	iPd	29	31.80	0.1
			S	29	42.00	
RTCB	0.68	262	iPc	29	33.80	-0.1
			S	29	45.70	
RTBS	1.26	257	ePd	29	40.10	0.1
			S	29	58.60	
RTPR	1.69	50	iPd	29	46.30	1.0

11d 21h

		S	30 09.00			
MRA	2.21	118 ePc	29 52.20	0.0		
		S	30 18.30			
TCA	2.93	90 iPd	30 01.70	-0.3		
		S	30 34.60			
CYA	3.51	34 ePd	30 09.20	-0.7		
S.D. = 0.6 on 8 of 8 obs.						

? MAY 11, 1993 22h 13m 41.27± 4.01s
30.217 S ±103.km 178.452 W ±43.3km
DEPTH = 172.5 ± 22.1 km
4.4mb (4 obs.)
KERMADEC ISLANDS, NEW ZEALAND (178)

RAO	1.07	26 iP	14 09.00	0.0		
		iS	14 31.00			
STK	34.14	257 iPc	20 11.80	0.2		
	0.5s	11.80nm		4.8mb		
ASPA	42.73	267 eP	21 22.50	-0.6		
	0.6s	3.00nm		4.1mb		
WB2	43.69	272 iPc	21 30.60	-0.2		
	0.4s	8.10nm		4.7mb		
WRA	43.70	272 P	21 31.50	0.6		
	0.7s	1.90nm		3.8mb		
KAF	144.25	340 iPKP	32 57.30	0.0		
	0.5s	1.90nm				
NUR	146.01	340 iPKP	33 03.20	2.9X		
	0.3s	1.80nm				
NB2	148.51	351 PKP	33 09.80	5.4X		
	0 6s	1.30nm				
HFS	148.99	348 ePKP	33 10.90	5.8X		
	0.5s	1.40nm				
S.D = 0.6 on 6 of 9 obs.						

MAY 11, 1993 22h 46m 37.87± 0.51s
39.271 N ± 4.8km 22.763 E ± 4.5km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 3.3 (ATH).

AGG	0.42	234 ePg	46 43.92	-2.5		
		eSg	46 50.40			
LIT	0.85	346 iPg	46 52.84	-1.5		
		eSg	47 06.48			
PAIG	0.96	47 ePg	46 56.04	-0.2		
		eSg	47 11.32			
KZN	1.29	324 ePb	47 01.10	-0.7		
THE	1.37	6 ePb	47 01.80	-1.1		
		eSb	47 22.16			
OUR	1.42	41 ePb	47 03.08	-0.6		
		eSb	47 23.80			
ATH	1.50	150 ePb	47 05.50	0.7		
		eSb	47 26.50			
SOH	1.61	16 iPb	47 05.97	-0.5		
		iSb	47 29.57			
GRG	1.71	351 iPb	47 08.44	0.6		
		eSb	47 31.80			
FNA	1.85	325 ePb	47 11.28	1.4		
		eSb	47 35.32			
KNT	1.89	3 iPb	47 09.52	-1 0		
		eSb	47 36.56			
IGT	1.90	279 ePb	47 10.96	0.3		
		eSb	47 36.48			
SRS	1.95	19 ePb	47 10.48	-0.9		
		eSb	47 37.92			
VLS	2.02	238 ePn	47 18.00	5.6X		
VAY	2.05	356 iPn	47 13.50	0.7		
SRN	2.22	287 ePn	47 19.20	4.0X		
KEK	2.34	282 ePn	47 15.50	-1.4		
TPE	2.35	297 iPn	47 25.00	7.8X		
OHR	2.37	321 iPn	47 20.10	2.6X		
		i	47 25.10			
		i	47 50.30			
		i	47 58.90			
		i	48 03.60			
		Lg	48 08.80			
VLI	2.55	177 ePn	47 20.60	0.6		
PRK	2.72	89 ePb	47 32.00	9.6X		
RDO	2.83	48 ePn	47 24.52	0.6		
SKO	2.88	340 iPn	47 26.00	1.4		
		iPg	47 36.20			
		iSb	48 13.30			
		iSg	48 18.50			
		Lg	48 26.60			
PHP	2.99	324 ePn	47 27.10	0.9		
ALN	3.00	56 ePn	47 26.44	0.2		
TIR	3.03	314 ePn	47 30.70	3.9X		
		iSn	48 14.00			
LACI	3.32	316 ePn	47 40.00	9.2X		
SDA	3.73	319 ePn	47 43.80	7.2X		
BRT	4.56	292 P	47 49.60	1.2		
ROI	4.81	276 P	47 52.50	0.4		
TDS	4.99	276 P	47 59.10	4.6X		
CSI	5.03	278 P	47 56.70	1.5		
CZI	5.15	271 P	47 55.80	-1.0		
MGR	5.63	281 P	48 05.50	1.9X		
SGO	5.87	285 P	48 07.70	0.7		
MLR	6.65	20 eP	48 20.00	1.9X		
CVO	7.01	20 eP	48 25.50	2.4X		
VRI	7.21	23 ePc	48 28.50	2.6X		
S.D. = 1.1 on 25 of 38 obs.						

• MAY 11, 1993 23h 48m 50.94± 0.64s
51.410 N ±14.8km 178.536 W ± 6.1km
DEPTH = 33.0km (normol)
4.5mb (23 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS. (7)

ADK	1.25	67 eP	49 13.78	1.7		
		eS	49 29.16			
SLKM	18.14	49 (P)	52 55.11	-6.6X		
IMA	19.34	31 eP	53 16 26	0.1		
	0.8s	3.84nm		3.7mb		
KLU	20.43	48 (P)	53 23.67	-4.1X		
INK	27.34	35 eP	54 39.50	5.2X		
M8C	33.52	22 eP	55 29.50	0.6		
	0.6s	1.00nm		3.9mb		
YKA	35.09	47 eP	55 41.20	-1.4		
	0.6s	1.00nm		3.9mb		
BW06	46.14	72 ePc	57 13.93	-0.1		
	0.5s	3.05nm		4.5mb		
SRU	47.76	77 (P)	57 26.89	0.1		
PV09	48.99	77 eP	57 36 25	-0.2		
MIAR	60.96	70 eP	59 01 74	-1.2		
	0.8s	2.53nm		4.4mb		
KAF	65.12	347 iP	59 28.20	-1.8		
	0.4s	1.80nm		4.5mb		
GBTN	65.54	63 eP	59 32.18	-1.0		
GPD	66.77	53 (P)	59 41.36	0.4		
NB2	67.63	355 P	59 44.60	-1.5		
	0.6s	0.80nm		4.0mb		
JSC	68.20	62 eP	59 49.31	-0.7		
HFS	68.37	353 eP	59 48.20	-2.5		
	0.4s	1.00nm		4.3mb		
GUN	72.00	292 P	00 13.60	0.0		
KKN	72.44	293 P	00 16.20	0.1		
	0.8s	51.00nm		5.6mb X		
PKI	72.53	292 P	00 16.60	-0.1		
	0.4s	17.00nm		5.4mb		
GKN	72.65	293 P	00 17.20	0.0		
DMN	72.67	293 P	00 17.60	0.1		
GEC2	79.58	352 P	00 56.10	0.2		
	0.9s	0.95nm		3.8mb		
		e	01 00.50			
FLN	80.19	1 eP	01 00.10	1.1		
LDF	80.37	1 eP	01 00.80	0.9		
	0.5s	2.40nm		4.4mb		
GRR	80.56	2 eP	01 02.10	1.2		
	0.5s	4.10nm		4.7mb		
LPF	80.92	2 eP	01 03.90	1.1		
K8A	81.36	352 iPd	01 06.20	0.8		
	0.8s	7.40nm		4.7mb		
SSF	81.89	359 eP	01 07.60	-0.4		
	0.5s	1.25nm		4.2mb		
R8L	81.97	352 P	01 08.60	0.1		
AVF	82.17	359 eP	01 09.90	0.5		
SMF	82.30	358 eP	01 09.60	-0.5		
	1.0s	7.60nm		4.7mb		
MFF	82.36	1 eP	01 10.90	0.5		
BGF	82.41	359 eP	01 11.10	0.5		
LSF	82.72	360 eP	01 12.60	0.3		
	0.6s	5.25nm		4.8mb		
MAF	82.75	359 eP	01 12.30	-0.1		
	0.5s	1.40nm		4.3mb		
RJF	83.67	360 eP	01 17.50	0.3		
BOB	83.96	354 P	01 19.30	0.6		
LFF	84.03	1 eP	01 18.90	-0.1		
	0.6s	6.95nm		5.0mb		
CAF	84.04	360 eP	01 19.10	0.0		
LPO	84.29	0 eP	01 20.10	-0.2		
	0.6s	4.50nm		4.8mb		
PGD	84.68	353 P	01 23.80	1.3		
HVAR	84.90	349 eP	01 22.50	-0.9		
SBF	84.97	356 eP	01 23.30	-0.5		
	0.6s	5.95nm		5.0mb		
FRF	85.30	356 eP	01 25.10	-0.3		
ASS	85.40	352 P	01 26.60	0.6		
LRG	85.42	356 eP	01 25.80	-0.2		
	0.6s	3.05nm		4.7mb		
LMR	85.54	356 eP	01 26.30	-0.2		
	0.4s	1.30nm		4.5mb		
AQU	86.04	351 P	01 29.40	0.2		
PGF	86.19	354 eP	01 29.40	-0.6		
	0.6s	7.05nm		5.1mb		
GBA	88.02	289 P	01 40.00	1.0		
S.D. = 0.8 on 48 of 51 obs.						

& MAY 12, 1993 00h 46m 55.45s
34.973 N 116.965 W
DEPTH = 0.1km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 3.8 (PAS), 3.6 (GS).
Felt (III) at Yucco Volley. Also
felt at Barstow, Fort Irwin and
Highland.

GSC	0.35	22 iPd	47 02.46	0.0		
SSK	0.97	219 iPd	47 13.59	-1.3		
PEC	1.09	189 iPd	47 15.85	-1.0		
		eS	47 29.67			
ISA	1.41	300 iPnc	47 21.10	-1.3		
		iPg	47 22.09			
		eS	47 39.55			
PLM	1.62	177 iPnd	47 24.53	-1.0		
		iPg	47 25.78			
		S	47 44.02			
		eSg	47 46.40			
ABL	1.86	267 ePn	47 27.07	-2.0		
		ePg	47 30.58			
		eSg	47 55.38			
TPNV	2.06	16 (Pn)	47 31.29	-0.5		
		ePg	47 34.20			
		eSg	48 00.81			
BCH	2.57	276 ePnc	47 36.97	-2.1		
		eS	48 17.94			
GLA	2.61	137 ePn	47 36.13	-3.6		
PKEM	2.79	294 (Pn)	47 42.88	0.7		
PHAM	2.93	288 (Pn)	47 42.98	-1.3		
MRCM	2.97	336 (Pn)	47 46.61	1.7		
		ePg	47 52.84			
TNP	3.11	356 ePn	47 45.63	-1.3		
		ePg	47 53.19			
		eSg	48 38.02			
MMPM	3.11	328 ePn	47 47.90	0.8		
		ePg	47 53.14			
		eSg	48 33.73			
MEMM	3.12	330 ePg	47 53.60	6.7		
BONR	3.17	340 (Pn)	47 48.02	0.3		
		ePg	47 56.43			
ARUT	4.00	44 iPnd	47 58.30	-1.2		
		ePg	48 10.25			
		eS	49 01.47			
CMB	4.11	319 ePnd	48 00.34	-0.7		
		ePg	48 09.12			
		eS	49 00.74			
ARN	4.39	304 ePn	48 03.90	-1.1		
MSU	5.22	46 ePn	48 15.66	-1.3		
		ePg	48 32.32			
TUC	5.80	116 ePn	48 20.40	-4.5		
	0.3s	3.90nm		4.6mb X		
		e	48 26.77			
DUG	6.17	31 ePg	48 50.44	20.3		
SRU	6.60	49 ePg	49 02.11	25.7		
		S	50 22.01			
PV09	7.20	58 ePn	48 43.74	-1.2		
		ePg	49 11.23			
		eS	50 43.69			
HVU	7.55	25 (Pn)	48 51.21	1.6		
		ePg	49 19.00			
		eS	50 52.56			
PV08	7.58	59 (P)	48 55.62	5.4		
		S	50 49.00			
26 obs. associated						

? MAY 12, 1993 00h 48m 43.53± 1.16s
39.330 N ±17.3km 22.868 E ±27.6km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 3.3 (ATH).

KZN	1.29	319 ePn	49 06.40	-1.1		

		eSn	49	28.00		
ATH	1.51	154 ePn	49	10.50	-0.1	
VAY	2.00	354 ePn	49	17.70	0.0	
OHR	2.38	319 ePn	49	24.50	1.2	
SKO	2.85	338 ePn	49	35.00	5.1X	
		i	50	21.00		
FEL	13.72	313 ePg	52	14.69	14.1X	
S.D. = 1.6		on 4 of 6 obs.				

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* MAY 12, 1993 00h 58m 49.60± 0.84s
30.835 S ± 9.2km 179.960 E ±15.9km
DEPTH = 375.1 ± 9.1 km
4.3mb (5 obs.)
KERMADEC ISLANDS REGION (177)

RAO	2.42	50 iPd	59	46.50	-0.1	
		S	00	32.20		
KUZ	6.87	210 P	00	37.80	6.1X	
		S	02	05.50		
HBZ	6.89	191 eP	00	33.70	1.8	
WCZ	6.93	221 Pd	00	40.10	7.7X	
PUZ	7.36	191 P	00	37.70	0.3	
		S	02	03.30		
URZ	7.77	197 P	00	42.20	0.1	
		S	02	14.40		
WLZ	7.89	206 P	00	48.20	4.6X	
		S	02	25.80		
NOZ	7.92	191 P	00	44.10	0.2	
PAHZ	8 35	196 P	00	50.90	1.9	
WHH	8.52	199 eP	00	51.80	0.8	
MOH	8.59	195 P	00	52.80	1.0	
MOZ	8.75	208 eP	00	58.60	5.0X	
NGZ	9.06	202 eP	00	57.80	0.4	
CNZ	9.09	202 eP	00	59.20	1.4	
WAHZ	9 32	197 eP	00	59.50	-1.0	
BSZ	9.84	203 eP	01	08.50	2.0	
MNG	10.42	199 eP	01	11.20	-2.2	
		S	03	07.20		
KIW	10.81	201 eP	01	17.80	-0.3	
CAW	10.99	200 eP	01	18.80	-1.5	
DIW	11.08	205 eP	01	21.10	-0.3	
MRW	11.21	201 eP	01	20.70	-2.2	
MOW	11.23	198 eP	01	22.60	-0.5	
SNZO	11.28	201 P	01	22.00	-1.7	
		S	03	27.00		
TCW	11.33	202 P	01	23.90	-0.4	
QRZ	11.65	209 eP	01	28.80	0.7	
THZ	12.30	206 eP	01	34.40	-1.4	
KHZ	12.65	202 eP	01	37.90	-1.9	
DSZ	12.71	209 eP	01	41.10	0.4	
LTZ	13.41	205 P	01	47.70	-0.7	
WVZ	14.26	208 eP	01	57.70	0.3	
DZM	14.91	303 iPd	02	05.10	0.5	
STK	32.67	258 iPc	04	53.70	3.8X	
	0 6s	5.20nm		4.0mb		
ASPA	41.34	268 iPc	06	03.80	1.9	
	0.6s	4.50nm		3.9mb		
WRA	42.36	274 P	06	09.20	-1.0	
	1.0s	4.20nm		3.7mb		
CSY	53.94	208 eP	07	38.10	0.5	
	0.7s	41.40nm		4.9mb		
SPA	59.33	180 iPd	08	17.40	2.0	
	0.8s	60.42nm		5.1mb		
NVL	78.33	184 eP	10	11.00	1.1	
FBA	98.68	13 eP	11	45.30	-2.0	
KAF	144.35	339 iPKP	17	40.70	-1.4	
	0.6s	14.00nm				
OBN	144.49	324 iPKPd	17	42.70	0.1	
	1.6s	152.00nm				
		e	17	47.00		
NUR	146.09	338 iPKP	17	46.20	1.1	
	0.3s	6.90nm				
UPP	148.64	343 iPKP	17	52.80	3.7X	
		i	17	57.90		
NB2	148.88	349 PKP	17	53.60	4.0X	
	1.1s	15.90nm				
HFS	149.29	347 ePKP	17	53.90	3.7X	
	0.4s	3.50nm				
S.D. = 1.3		on 36 of 44 obs.				

MAY 12, 1993 01h 38m 16.72± 0.29s
44.357 N ± 2.3km 7.285 E ± 3.1km
DEPTH = 5.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.4 (GEN), 2.1 (LDG).

STV	0.12	166 Pc	38	19.59	0.3	
		S	38	20.90		
ENR	0.16	143 Pd	38	20.50	0.4	
		S	38	22.51		
PZZ	0.20	318 Pd	38	21.44	0 6	
		S	38	24.52		
ROB	0.42	98 P	38	25.98	0.7	
		S	38	31.70		
BHB	0.49	358 P	38	26.63	0.2	
		S	38	33.04		
SBF	0.51	168 Pg	38	26.90	0.0	
		Sg	38	32.90		
IMI	0.62	136 Pd	38	29.08	-0.1	
		S	38	37.64		
RRL	0.67	328 P	38	30.16	0.1	
		S	38	39.16		
FIN	0.68	102 P	38	30.11	-0.2	
		S	38	39.02		
RSP	0.80	359 P	38	31.85	-0.9	
		S	38	42.37		
FRF	0.92	210 Pg	38	34.30	-0.5	
		Sg	38	45.80		
PCP	0.92	78 Pd	38	35.41	0.6	
		S	38	46.92		
LSD	1.10	355 P	38	38.04	-0.1	
		S	38	51.92		
LRG	1.12	217 Pg	38	38.10	-0.1	
		Sg	38	52.90		
LMR	1.17	209 Pg	38	39.20	0.2	
		Sg	38	53.40		
LPG	1.20	342 Pg	38	40.00	0.2	
		Sg	38	54.80		
LPL	1.22	341 Pg	38	39.60	-0.5	
		Sg	38	54.90		
CDR	1.29	239 eP	38	41.60	0.5	
		e	38	44.40		
		e	38	57.70		
PGF	2.20	145 Pn	38	53.00	-1.5	
		Sn	39	19.20		
S.D. = 0.6		on 19 of 19 obs.				

MAY 12, 1993 01h 54m 19.87± 0.48s
38.606 N ± 5.0km 20.467 E ± 3.5km
DEPTH = 10.0km (geophysicist)
3 4mb (1 obs.)
GREECE (364)
MD 3.5 (ATH). ML 3.3 (TIR).

VLS	0.44	167 iPgc	54	27.30	-1.5	
IGT	0.93	354 ePb	54	38.92	1.3	
		eSb	54	55.52		
KEK	1.22	335 ePb	54	44.50	1.9	
SRN	1.32	344 iPgd	54	46.70	2.4	
		iSg	54	59.70		
AGG	1.51	73 ePb	54	46.64	-0.4	
		eSb	55	10.36		
TPE	1.72	348 iPnd	54	54.50	4.5X	
KZN	1.98	30 ePn	54	55.40	1.6	
LIT	2.17	46 ePn	54	57.76	1.3	
		eSn	55	29.64		
FNA	2.29	18 ePn	54	59.60	1.3	
OHR	2.51	6 iPnc	55	03.10	1.6	
		i	55	09.60		
		i	55	35.10		
		i	55	47.10		
		i	55	54.50		
LCI	2.60	312 P	55	01.60	-1.0	
ATH	2.63	103 ePn	55	03.30	0.2	
VLI	2.72	133 ePb	55	06.00	1.6	
TIR	2.78	351 ePn	55	05.50	0.3	
		iSn	55	41.20		
GRG	2.78	32 ePn	55	05.44	0.2	
THE	2.80	43 ePn	55	06.04	0.6	
		eSn	55	43.32		
PAIG	2.82	61 ePn	55	04.60	-1.2	
PHP	3.07	360 ePn	55	09.70	0.3	
		iSn	55	48.70		
LACI	3.08	349 ePn	55	09.50	0.1	
		iSn	55	47.50		
SOH	3.14	44 ePn	55	10.44	0.1	
VAY	3.16	30 iPn	55	10.40	-0.1	
KNT	3.16	35 iPn	55	10.70	0.1	
GRI	3.17	275 P	55	11.52	0.7	
ROI	3.18	289 P	55	12.20	1.2	
OUR	3.22	57 ePn	55	11.32	-0.1	
TDS	3.38	289 P	55	15.40	1.7	
BRT	3.39	313 Pd	55	14.20	0.4	
CZI	3.43	282 P	55	15.40	0.9	
SKO	3.44	12 iPn	55	14.60	0.0	
	0.8s	175.00nm				
		iPg	55	24.70		
		iSn	55	55.00		
CSI	3.45	291 P	55	17.00	2.2	
SRS	3.47	43 ePn	55	14.08	-1.0	
SOI	3.51	263 P	55	15.00	-0.5	
SDA	3.52	348 ePn	55	14.50	-1.2	
GMB	3.64	265 P	55	17.87	0.2	
BAI	3.74	313 P	55	18.50	-0.3	
ATN	3.96	265 P	55	21.80	-0.1	
MGR	4.10	293 P	55	24.60	0.6	
SGO	4.44	298 P	55	30.10	1.4	
HVAR	5.49	328 iPd	55	41.00	-2.6	
RFI	5.66	300 P	55	46.74	0.7	
SDI	5.96	303 P	55	51.00	0.7	
AQU	6.56	307 P	55	59.40	0.6	
MNS	7.03	305 P	56	05.40	0.0	
ASS	7.41	309 P	56	11.10	0.4	
ARV	7.50	313 Pd	56	10.50	-1.4	
VBY	7.91	332 ePn	56	15.00	-2.5	
		eSn	57	45.50		
CRE	8.15	311 P	56	20.50	-0.6	
SFI	8.38	312 P	56	23.40	-0.8	
CEY	8.42	330 ePn	56	22.00	-2.7	
		e(Sn)	57	56.00		
PGD	8.43	311 Pd	56	24.90	-0.2	
LJU	8.63	331 e(Pn)	56	25.00	-2.7	
TRI	8.67	327 eP	56	24.70	-3.4X	
VOY	8.87	329 ePn	56	27.30	-3.8X	
		e(Sn)	58	07.20		
RBL	9.34	329 P	56	34.40	-3.1X	
FVI	9.78	327 P	56	42.20	-1.3	
CTI	9.89	322 P	56	41.50	-3.6X	
BOB	10.28	310 P	56	49.90	-0.6	
GEC2	11.34	337 Pn	57	01.10	-3.8X	
		Sn	59	05.50		
LPG	12.29	308 eP	57	18.10	0.0	
	0.8s	3.35nm		4.7mb X		
LPL	12.31	308 eP	57	17.50	-0.8	
	0.8s	2.15nm		4.5mb X		
HFS	21.97	351 eP	59	12.50	-2.9	
	0.4s	0.70nm		3.4mb		
S.D. = 1.3		on 55 of 61 obs.				

MAY 12, 1993 02h 12m 28.95± 0.31s
6.732 N ± 5.2km 127.117 E ± 7.4km
DEPTH = 33.0km (normal)
4.8mb (24 obs.) 4.3Msz (6 obs.)
PHILIPPINE ISLANDS REGION (248)

DAV	1.57	283 iPc+	12	57.00	2.1	
CTB	2.93	279 ePd	13	18.00	3.7X	
		eS	13	52.00		
CGP	2.95	306 iPd	13	17.00	2.5	
		iS	13	43.00		
		eS	14	28.00		
PLP	4.89	335 ePc	13	42.70	0.7	
MNI	5.72	203 eP	13	35.00	-18.9X	
TSM	9.51	256 eP	14	48.00	1.2	
KKM	10.86	267 ePd	15	06.00	0.7	
BAG	11.55	327 eP	15	23.00	8.1X	
IPM	26.05	267 eP	18	02.80	1.5	
WRA	27.44	165 P	18	16.50	2.5	
	0.8s	4.00nm		4.1mb		
WB2	27.45	165 iPd	18	16.10	2.1	
	0.4s	13.30nm		5.0mb		
TKSJ	27.87	12 P	18	18.50	0.8	
WKYJ	28.45	15 P	18	23.80	0.7	
YONJ	28.92	11 P	18	27.30	0.1	
KMI	29.63	311 eP	18	42.50	8.5X	
Z 20s		1.10um		4.5Msz		
		pP	18	48.00	19kmX	
TSRJ	29.80	15 P	18	35.00	-0.1	
CHTO	29.93	296 eP	18	54.30	17.8X	
ASPA	30.93	168 eP	18	46.00	0.8	
	0.4s	4.50nm		4.6mb		
Z 20s		0.40um		4.1Msz		
		eS	23	42.90		
CHJJ	31.14	19 P	18	46.10	-0.8	
MTMJ	31.28	17 P	18	48.00	-0.3	
MAT	31.36	17 eP	18	47.00	-1.8	
	0.7s	20.55nm		5.1mb		
		eS	23	57.00		
WARB	32.72	181 eP	18	59.00	-1.8	
YAMJ	33.42	19 eP	19	07.60	0.8	
MEEK	34.18	194 eP	19	12.10	-1.4	

12d 02h

0.6s 8.00nm 4.8mb
BJI 34.59 345 eP 19 14.50 -2.3
Z 20s 0.36um 4.1Msz
OFUJ 34.78 20 eP 19 19.10 0.6
LZH 36.16 327 eP 19 30.00 -0.5
1.5s 30.00nm 5.0mb
Z 22s 0.61um 4.3Msz
N 15s 0.35um
sP 19 49.50
MRWA 37.31 196 eP 19 39.00 -1.0
MRRJ 37.63 17 eP 19 44.70 2.2
HOOJ 38.28 19 eP 19 50.50 2.5
BAL 38.44 195 eP 19 48.60 -0.9
KUSJ 39.40 20 eP 19 59.50 2.2
ASAJ 39.64 18 eP 20 01.30 1.9
MUN 39.87 195 iPd 20 01.00 -0.4
NWAO 40.54 193 eP 20 06.70 -0.2
STK 40.81 161 iPd 20 08.80 -0.2
0.4s 5.20nm 4.6mb
RKG 42.17 192 eP 20 21.00 0.8
YSS 42.31 16 iPd 20 22.00 0.8
0.8s 20.00nm 4.9mb
e 20 29.20
ADE 42.89 166 e(P) 20 27.00 0.8
CIT 46.48 349 eP 20 50.00 -4.8X
DZM 48.00 128 iPd 21 23.70 16.5X
GBA 49.30 282 P 21 16.00 -1.2
BOD 51.98 351 eP 21 35.30 -1.6
1.4s 12.00nm 4.7mb
MGD 56.19 14 eP 22 07.50 -0.3
0.8s 30.00nm 5.4mb
e 22 25.00
MAIO 68.03 306 eP 23 26.00 -1.6
ILT 70.87 19 iPc 23 44.00 -0.3
1.5s 18.00nm 4.9mb
SVE 71.62 328 ePc 23 47.00 -2.0
2.0s 60.00nm 5.3mb
e 24 08.00
HON 73.52 70 P 24 10.00 9.2X
Z 20s 0.24um 4.5Msz
CSY 73.83 187 eP 24 01.30 -0.4
0.7s 18.90nm 5.2mb
GRS 78.65 309 eP 24 28.00 -1.7
1.2s 20.00nm 5.0mb
KDC 79.21 33 eP 24 31.73 -0.4
0.6s 11.94nm 5.1mb
IMA 79.50 24 eP 24 33.87 0.1
0.5s 2.45nm 4.5mb
CP2 79.63 29 (P) 24 32.37 -2.3
CRP 79.67 29 eP 24 35.65 0.8
SLKM 80.56 30 (P) 24 39.42 0.0
KIV 81.36 313 (P) 24 43.60 -0.4
FBA 81.86 25 eP 24 45.33 -0.7
0.8s 4.35nm 4.5mb
BALM 84.42 29 eP 25 00.32 0.9
OBN 84.83 325 eP 25 01.00 -0.4
INK 87.25 22 eP 25 14.00 0.9
0.9s 3.00nm 4.5mb
MBC 88.96 13 eP 25 21.50 0.3
0.9s 3.00nm 4.6mb
KAF 89.13 332 iP 25 19.30 -2.9
0.8s 4.70nm 4.9mb
NUR 90.28 331 eP 25 26.90 -0.7
0.4s 1.70nm 4.7mb
HFS 95.55 333 eP 25 48.60 -3.3X
0.4s 0.80nm 4.5mb
Z 18s 0.10um 4.3Msz
LR 06 06.00
NB2 96.28 334 P 25 52.50 -2.8
0.8s 1.80nm 4.6mb
YKA 96.62 24 eP 25 56.20 -0.5
0.7s 2.90nm 4.9mb
KIC 130.23 284 PKP 31 38.20 -0.3
TIC 130.43 285 PKP 31 38.40 -0.5
LIC 130.54 284 PKP 31 38.60 -0.5
TCA 153.18 157 ePKPc 32 25.50 7.6X
CNCB 162.16 125 PKP 32 32.00 2.5
LPB 162.21 125 ePKP 32 28.00 -1.4
ZOBO 162.33 124 PKP 32 30.80 1.1
SIV 167.79 140 ePKP 32 48.00 14.2X
S.D. = 1.4 on 63 of 74 obs.

? MAY 12, 1993 02h 16m 26.18± 1.17s
44.393 N ± 6.8km 7.375 E ±16.2km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.4 (GEN).

STV 0.15 194 P 16 29.86 0.1
S 16 32.37
ENR 0.17 169 P 16 30.04 -0.1
S 16 32.69
PZZ 0.23 300 P 16 31.09 0.0
S 16 34.16
BHB 0.46 350 P 16 35.48 0.0
S 16 41.75
S.D. = 0.1 on 4 of 4 obs.

? MAY 12, 1993 02h 23m 28.74± 3.16s
20.649 S ±21.6km 169.535 E ±35.8km
DEPTH = 139.0 ± 15.0 km
4.6mb (3 obs.)
VANUATU ISLANDS (186)

BKM 3.21 337 iP 24 19.00 0.0
iS 24 58.50
DZM 3.21 243 iPc 24 19.10 0.0
iS 24 58.00
WB2 32.97 265 iPd 29 51.90 -0.5
0.4s 4.70nm 4.6mb
WRA 32.98 265 P 29 52.80 0.3
0.4s 1.40nm 4.1mb
ASPA 33.09 258 iPd 29 53.60 0.2
0.4s 9.70nm 4.9mb
GEC2 145.86 331 PKP 42 52.40 0.0
0.5s 1.26nm
e 42 54.00
LPL 151.44 334 ePKP 43 06.70 5.3X
0.6s 1.80nm
LPG 151.45 334 ePKP 43 07.00 5.5X
0.7s 2.75nm
S.D. = 0.4 on 6 of 8 obs.

MAY 12, 1993 04h 08m 24.87± 1.30s
36.189 N ±11.8km 1.392 E ± 6.2km
DEPTH = 10.0km (geophysicist)
3.6mb (1 obs.)
NORTHERN ALGERIA (396)
mbLg 3.1 (MDD).

ACU 2.73 329 ePn 09 09.20 -0.3
eSn 09 41.00
EALH 2.80 307 ePn 09 10.00 -0.5
eSn 09 41.00
ENIJ 3.00 286 ePn 09 13.30 0.0
eSn 09 46.70
ESEL 3.76 18 ePn 09 25.00 0.8
eSn 10 08.00
ECHE 3.88 332 ePn 09 25.30 -0.5
eSn 10 07.00
EVIA 3.95 309 ePn 09 26.00 -0.9
eSn 10 10.00
EGUA 4.05 281 ePn 09 28.10 -0.1
eSn 10 11.90
ECOG 4.13 287 ePn 09 29.90 0.5
eSn 10 14.60
EROO 4.69 351 ePn 09 37.80 0.4
eSn 10 28.60
IFR 5.99 245 iP 10 46.00 50.2X
EPF 6.88 354 Pn 10 09.00 0.7
Sn 11 18.90
LMR 8.15 27 Pn 10 26.10 0.1
Sn 11 53.80
LRG 8.20 26 Pn 10 26.20 -0.4
FRF 8.40 27 Pn 10 28.30 -1.1
LPO 8.49 359 Pn 10 30.50 -0.2
Sn 12 02.10
PGF 8.66 41 Pn 10 32.30 -0.9
Sn 12 04.60
CAF 8.74 3 Pn 10 34.80 0.5
Sn 12 08.50
LFF 8.76 357 Pn 10 34.10 -0.3
Sn 12 09.40
RJF 9.11 1 Pn 10 39.70 0.5
Sn 12 18.10
MAF 10.06 5 Pn 10 52.90 0.5
TCF 10.11 3 Pn 10 52.80 -0.3
BGF 10.42 6 Pn 10 57.70 0.4
GEC2 15.54 32 P 12 13.40 7.8X
0.6s 0.39nm 2.9mb X
e 12 16.00
YKA 69.14 333 eP 19 34.20 1.2
0.7s 0.30nm 3.6mb
S.D. = 0.6 on 22 of 24 obs.

% MAY 12, 1993 04h 32m 32.19± 2.13s
39.174 N ±20.2km 22.966 E ±15.2km
DEPTH = 10.0km (geophysicist)
GREECE (364)

AGG 0.52 253 ePg 32 42.82 0.1
eSg 32 50.38
PAIG 0.93 36 ePg 32 51.58 1.6
LIT 1.00 338 ePg 32 51.50 0.4
eSg 33 05.98
OUR 1.40 34 ePb 32 56.66 -1.0
SOH 1.67 10 ePb 33 00.54 -1.1
S.D. = 1.6 on 5 of 5 obs.

MAY 12, 1993 04h 44m 43.21± 0.55s
40.261 N ± 5.6km 21.115 E ± 4.8km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 3.3 (TIR).

FNA 0.56 21 ePg 44 53.04 -1.6
eSg 45 02.12
TPE 0.85 273 iPn 45 10.20 10.7X
iSn 45 31.50
OHR 0 88 344 iPgd 44 59.20 -1.0
iSg 45 11.60
Lg 45 15.80
SRN 0.94 246 iPgd 45 00.50 -0.5
iSg 45 16.10
IGT 0.94 220 ePg 45 00.52 -0.7
eSg 45 15.56
LIT 1.07 98 iPg 45 03.50 0.2
iSg 45 20.40
GRG 1.20 54 ePb 45 05.40 -0.2
THE 1.46 75 ePb 45 09.20 -0.4
PHP 1.51 340 iPnc 45 10.50 0.2
iSn 45 31.00
VAY 1.53 46 iPn 45 11.40 0.8
AGG 1.55 142 ePb 45 11.82 0.9
eSb 45 32.72
KNT 1.63 56 ePb 45 11.56 -0.4
SKO 1.73 8 iPn 45 15.00 1.6
i 45 22.00
i 45 34.50
Lg 45 44.00
LACI 1.74 323 ePn 45 16.50 2.9
SOH 1.80 71 ePb 45 14.52 0.0
PAIG 2.00 99 ePn 45 17.04 -0.3
eSn 45 42.36
SRS 2.07 65 ePn 45 18.04 -0.4
SDA 2.17 326 ePn 45 18.20 -1.6
OUR 2.19 87 ePn 45 20.04 -0.2
S.D. = 1.1 on 18 of 19 obs.

? MAY 12, 1993 04h 48m 53.44± 8.25s
40.102 N ±25.9km 24.172 E ±62.4km
DEPTH = 5.0km (geophysicist)
AEGEAN SEA (365)

OUR 0.27 328 ePg 48 58.96 0.0
eSg 49 03.16
PAIG 0.42 245 ePg 49 01.76 0.0
eSg 49 10.32
SRS 1.11 337 ePb 49 14.52 -0.1
eSb 49 30.36
KNT 1.44 318 ePb 49 20.36 0.2
eSb 49 43.06
S.D. = 0.2 on 4 of 4 obs.

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* MAY 12, 1993 04h 56m 43.90± 1.15s
10.508 N ±14.6km 69.261 W ± 9.3km
DEPTH = 33.0km (normal)
3.3mb (1 obs.)
VENEZUELA (101)

TOV 0.89 216 iPnc 56 58.10 -2.0
iSn 57 11.00
CEOS 1.73 148 iPc 57 12.70 0.5
iS 57 36.20
GUAC 1.98 99 iPd 57 16.10 0.2
iS 57 43.10
SDV 2.10 220 iPnd 57 19.30 1.6
iSn 57 46.80
CAR 2.29 90 eP 57 22.30 2.0X
LLAV 2.41 91 iPc 57 16.20 -5.8X
iS 57 43.20
OLLA 2.47 101 iPd 57 23.30 0.5

			iS	57 53.80		
GUAN	3.60	98	iPc	57 37.80	-1.0	
YKA	61.22	338	eP	06 57.90	0.2	
	0.4s		0.10nm		3.3mb	
S.D. = 1.4 on 7 of 9 obs.						

? MAY 12, 1993 05h 16m 01.07± 9.92s
42.122 N ±69.1km 22.979 E ±19.8km
DEPTH = 10.0km (geophysicist)
BULGARIA (359)

KNT	0.96	184	iPg	16 18.86	-0.5	
			eSg	16 29.06		
SRS	1.10	155	ePg	16 21.41	-0.4	
			eSg	16 34.74		
GRG	1.24	201	ePg	16 24.26	0.1	
			iSg	16 39.01		
SOH	1.33	168	iPb	16 26.33	0.7	
			eSb	16 42.42		
OUR	1.94	157	ePb	16 34.38	0.0	
S.D. = 0.7 on 5 of 5 obs.						

% MAY 12, 1993 06h 37m 32.88± 0.87s
31.132 S ± 9.8km 68.482 W ± 8.3km
DEPTH = 23.8 ± 8.0 km
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.20	177	iPd	37 38.20	-0.3	
ZON	0.45	202	eP	37 42.00	-0.2	
			eS	37 50.00		
RTCB	0.45	217	iPd	37 42.50	0.3	
CFA	0.52	156	iPd	37 42.80	-0.5	
			(S)	38 04.50		
RTBS	0.98	237	ePd	37 51.40	0.3	
			S	38 05.00		
MDZ	1.77	190	eP	38 29.80	27.3X	
RTPR	1.89	65	ePd	38 04.40	0.3	
			S	38 28.20		
MRA	2.68	119	ePc	38 16.70	1.2	
			S	38 53.50		
TCA	3.34	95	ePc	38 24.50	-0.4	
			S	39 13.00		
CYA	3.55	42	eP	38 27.40	-0.5	
			S	39 19.30		
RFA	3.63	180	eP	38 28.70	-0.3	
			(S)	39 26.20		
S.D. = 0.7 on 10 of 11 obs.						

& MAY 12, 1993 06h 53m 20.20s
40.755 N 124.863 W
DEPTH = 10.0km
NEAR COAST OF NORTHERN CALIF. (35)
<BRK>. ML 3.5 (BRK).

KCTM	0.49	125	P	53 30.76	0.6	
EKR	0.55	96	iP	53 31.37	0.0	
ARC	0.61	78	iPc	53 32.13	-0.4	
			eS	53 40.95		
KMPM	0.66	121	iPc	53 32.98	-0.4	
FHC	0.67	86	iP	53 33.28	-0.2	
FOX	0.70	109	iP	53 33.90	-0.2	
KSMM	0 77	137	P	53 34.02	-1.3	
KCRM	0 86	112	P	53 36.11	-0.7	
KGMM	0.90	89	P	53 36.95	-0.7	
KPPM	1.21	109	P	53 41.52	-1.4	
KHBM	1.25	94	P	53 41.86	-1.8	
KCPM	1.45	137	P	53 44.45	-2.1	
KBNM	1.54	123	P	53 46.40	-1.5	
LGPM	1.55	84	iPc	53 45.90	-2.1	
LBPM	1.57	105	P	53 46 36	-1.9	
WDC	1.78	95	eP	53 49.04	-2.1	
GNAM	1.82	148	P	53 48.90	-2.9	
GAS	1.98	123	P	53 52.06	-2.1	
LBFM	2.32	74	eP	53 57 82	-1.5	
LPDM	2.44	79	P	53 59 52	-1.3	
LMEM	2.51	94	eP	53 59.73	-2.2	
MIN	2.52	98	iP	53 59.47	-2.5	
LHCM	2.54	88	P	54 01.44	-0.8	
MGL	2.70	109	P	54 03.16	-1.4	
OSUM	2.75	122	P	54 02.06	-3.0	
ORV	2.84	114	iP	54 03.43	-3.0	
NTYM	2.91	144	(P)	54 12.72	5.3	
ORAM	2.94	115	P	54 05.80	-2.1	
AARM	3.30	115	P	54 11.68	-1.3	
AFDM	3.50	120	P	54 13.02	-2.7	
AFHM	3.57	117	P	54 16.52	-0.3	
MRCM	5.82	120	(P)	54 46.84	-2.0	
MSU	10.04	99	eP	55 46.01	-1.7	
	33 obs. associated					

? MAY 12, 1993 06h 55m 15.55± 1 02s
26.012 S ±10.1km 27.816 E ± 9.6km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)

SLR	0.50	57	eP	55 25.50	-0.1	
			S	55 33.60		
KSR	0.84	280	eP	55 32.50	0.1	
			S	55 46.50		
PRY	0.96	198	eP	55 33.50	-0.9	
			S	55 43.50		
SEK	2.31	184	eP	55 56.00	1.0	
			S	56 22.00		
S.D. = 1.4 on 4 of 4 obs.						

MAY 12, 1993 07h 24m 04.10± 0.36s
36.203 N ± 4.2km 114.013 W ± 4.0km
DEPTH = 5.0km (geophysicist)
SOUTHERN NEVADA (41)
ML 3.5 (GS). Felt (IV) at Bunkerville.

ARUT	1.65	16	ePc	24 33.20	-0.8	
			eS	24 51.44		
TPNV	1.95	293	eP	24 38.56	0.2	
			eS	25 06.91		
GSC	2.44	249	ePnd	24 45.88	0.5	
			ePg	24 51.78		
MSU	2.73	32	eP	24 49.48	-0.2	
			eS	25 26.37		
TNP	3.17	307	ePn	24 55.45	-0.4	
GLA	3.21	192	eP	24 56.17	-0.1	
			e	26 01.13		
PEC	3.46	229	eP	24 59.55	-0.2	
SSK	3.61	238	eP	25 02.19	0.2	
ISA	3.66	263	eP	25 01.96	-0.7	
PLM	3.68	220	eP	25 03.53	0.4	
BONR	3.85	298	(P)	25 05.38	-0.2	
SRU	4.01	43	ePn	25 09.36	1.6	
			eS	26 03.78		
DUG	4.10	13	ePn	25 07.91	-1.0	
			eS	26 08.02		
KVN	4.31	312	eP	25 12.09	0.0	
EMUT	4.40	34	eP	25 13.37	0.0	
			eS	26 16.06		
PV09	4.51	58	eP	25 15.11	0.1	
			eS	26 20.22		
PV10	4.52	60	ePn	25 14.42	-0.6	
			eS	26 18.77		
TUC	4.71	145	eP	25 17.16	-0.5	
			eS	26 30.79		
DAU	4.73	26	(P)	25 18.73	0.7	
PV08	4.89	59	ePn	25 19.95	-0.4	
			ePg	25 31.31		
			eS	26 28.44		
HVU	5.65	9	(P)	25 30.02	-0.9	
YKA	26.32	359	eP	29 44.40	2.2	
	0.4s		0.10nm		2.9mb	
S.D. = 0.8 on 22 of 22 obs.						

MAY 12, 1993 07h 33m 14.03± 0.27s
6.729 N ± 4.2km 126.945 E ± 6.2km
DEPTH = 55.2km (4 depth phases)
4.7mb (23 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

DAV	1.41	285	iPc+	33 39.80	2.1	
CGP	2.81	308	ePd	33 59.00	1.5	
			eS	34 36.00		
MAP	4.62	321	ePc	34 23.00	0.0	
			eS	35 13.00		
PLP	4.82	336	ePc	34 25.80	0.0	
MNI	5.65	202	eP	34 39.50	1.9	
TSM	9.35	255	eP	35 32.50	3.7X	
KKM	10.69	267	ePd	35 49.00	1.8	
BAG	11.46	328	eP	36 09.50	11.7X	
LEM	23.52	235	iPc	38 23.00	2.7	
IPM	25 88	267	ePd	38 43.00	0.4	
WRA	27.49	165	P	38 56.70	-0.6	
	0.7s		7.30nm		4.4mb	
WB2	27.49	165	eP	38 55.90	-1.4	
	0.5s		14.80nm		4.9mb	
NST	27.73	291	eP	39 03.00	3.5X	
TKSJ	27.91	13	P	39 00.80	-0.1	
WKYJ	28.50	15	P	39 06.40	0.0	
YONJ	28.95	11	P	39 09.90	-0.4	
KMI	29.50	311	eP	39 27.00	11.3X	
	1 6s		50.00nm			
Z	20s		1.20um		4.5Msz	
			pP	39 32.00	17kmX	
ASPA	30.96	168	eP	39 28.80	0.5	
	0.6s		6.20nm		4.5mb	
Z	21s		0.50um		4.2Msz	
			eS	44 20.40		
MAT	31.41	18	iPc	39 30.40	-1.7	
	0.8s		14.18nm		4.8mb	
Z	20s		0.71um		4.3Msz	
			eS	45 08.00		
WARB	32.72	181	eP	39 41.50	-2.1	
CTA	32.73	145	iPc	39 43.00	-0.8	
YAMJ	33.48	19	P	39 50.70	0.6	
MEEK	34.14	193	eP	39 54.90	-1.1	
BJI	34.55	345	eP	40 05.50	6.2X	
	1.1s		14.00nm		4.8mb	
Z	20s		0.42um		4.2Msz	
OFUJ	34.84	20	P	40 02.90	1.1	
LZH	36.07	327	eP	40 07.00	-5.5X	
	1.6s		39.00nm		5.1mb	
E	15s		0.34um			
			sP	40 31.50		
MRWA	37.26	196	eP	40 21.80	-0.5	
FORT	37.31	178	eP	40 22.00	-0.7	
MRRJ	37.69	17	eP	40 26.80	1.1	
HOOJ	38.34	20	eP	40 33.70	2.4	
KLB	39.10	192	eP	40 37.30	-0.5	
KUSJ	39.46	21	eP	40 42.40	1.8	
ASAJ	39.70	18	eP	40 44.20	1.6	
MUN	39.83	194	eP	40 43.60	-0.2	
STK	40.86	161	iPc	40 51.90	-0.3	
	0.5s		5.00nm		4.5mb	
YSS	42.36	16	ePc	41 04.10	-0.3	
	0 8s		20.00nm		4.9mb	
			e	41 19.30	59km	
ADE	42.93	166	eP	41 09.20	0.0	
ARMA	43.87	149	eP	41 17.00	0.0	
	0.7s		8.00nm		4.6mb	
GUN	44.20	304	P	41 18.60	-1.4	
PKI	44.47	303	P	41 21.00	-1.2	
KKN	44.66	303	P	41 21.80	-1.8	
DMN	44.74	303	P	41 23.20	-1.1	
GKN	45.26	303	P	41 27.20	-1.1	
BWA	45.69	155	eP	41 32.80	1.4	
			i	41 36.90	14kmX	
			e	43 20.60		
CIT	46.45	349	eP	41 37.80	0.6	
CAN	46.70	155	eP	41 40.20	0.8	
			i	41 44.80	15kmX	
			i	43 23.40		
CNB	46.85	155	eP	41 42.10	1.5	
	1.0s		25.00nm		5.1mb	
DZM	48.13	128	iPd	41 54.10	3.2X	
GBA	49.14	282	P	41 59.00	0.4	
NDI	51.71	301	iPc	42 15.80	-2.2	
BOD	51.95	351	eP	42 17.40	-2.0	
	1.0s		6.00nm		4.6mb	
PET	52.90	23	eP	42 44.00	17.5X	
Z	20s		0.30um		4.3Msz	
YAK	55.21	2	eP	42 42.20	-1.1	
	0.8s		31.00nm		5.4mb	
MGD	56.23	14	ePc	42 50.00	-0.7	
	1.3s		40.00nm		5.3mb	
			e	43 03.00	46km	
FRU	58.31	317	eP	43 05.00	-0.7	
Z	22s		0.70um		4.7Msz	
E	24s		1.00um			
MAIO	67.90	306	eP	44 06.00	-3.3X	
ILT	70.93	19	iPc	44 27.20	0.1	
	1.0s		10.00nm		4.7mb	
			i	44 42.50	55km	
SVE	71.54	328	ePc	44 30.00	-1.0	
	1.6s		50.00nm		5.2mb	
CSY	73.81	187	eP	44 42.80	-1.3	
	0.1s		6.60nm		5.5mb	
TTA	78.15	27	(P)	45 09.46	0.7	
IMA	79.57	24	eP	45 15.72	-0.9	
	0.8s		2.72nm		4.2mb	
CP2	79.72	29	eP	45 17.91	0.4	
CRP	79.76	29	(P)	45 19.61	1.9	
SLKM	80.65	30	(P)	45 21.59	-0.7	
KIV	81.24	313	(P)	45 25.50	-0.3	
			e	45 42.40	61km	

12d 07h

FBA	81.94	25	eP	45	28.53	-0.3
	0.5s	1.84nm			4.3mb	
BALM	84.51	29	ePd	45	43.32	1.1
OBN	84.73	325	ePd	45	43.00	-0.3
			e	45	55.00	39kmX
INK	87.31	22	eP	45	57.00	1.2
	1.0s	3.00nm			4.5mb	
MBC	89.00	13	eP	46	04.00	0.2
	0.9s	2.00nm			4.4mb	
SLL	95.51	333	eP	46	31.90	-2.2
	0.7s	7.20nm			5.3mb	
YKA	96.70	24	eP	46	38.50	-0.9
	0.8s	2.50nm			4.8mb	
GEC2	99.88	322	PKP	46	53.90	-0.3
	1.0s	1.42nm			4.5mb	
			e	47	03.80	31kmX
			e	47	07.20	
MDZ	150.12	153	ePKP	53	13.50	17.9X
CNCB	162.30	126	PKP	53	14.00	2.1
LPB	162.35	125	ePKP	53	06.00	-5.8X
ZOBO	162.47	124	PKP	53	16.00	3.9X
SIV	167.90	140	ePKP	53	26.00	9.9X
			e	53	31.00	

S.D. = 1.2 on 65 of 78 obs.

MAY 12, 1993 07h 34m 58.84± 0.99s
36.237 N ± 8.9km 22.760 E ± 7.2km
DEPTH = 10.0km (geophysicist)
3.9mb (2 obs.)
SOUTHERN GREECE (368)
MD 3.7 (ATH).

VLI	0.50	17	iPgd	35	08.60	-0.4
VAM	1.43	125	ePb	35	25.50	0.6
ATH	1.89	24	ePb	35	31.00	-0.5
NPS	2.52	112	ePg	35	46.50	6.1X
VLS	2.60	319	ePn	35	43.50	1.9
AGG	2.80	353	iPn	35	45.58	1.0
PAIG	3.76	11	ePn	35	56.90	-1.1
LIT	3.86	357	ePn	36	00.12	0.5
GRG	4.72	357	ePn	36	13.04	1.2
SRS	4.92	7	ePn	36	14.00	-0.5
KNT	4.92	1	iPn	36	14.93	0.4
			eSn	37	13.40	
VAY	5.08	358	eP	36	17.70	0.9
OHR	5.10	343	eP	36	23.50	6.3X
ROI	5.92	306	P	36	28 30	-0 4
			eSn	37	38.90	
CZI	6.04	302	P	36	30.10	-0.2
CSI	6.21	307	P	36	32.90	0.1
MGR	6.88	307	P	36	41.10	-1.1
SGO	7.27	309	P	36	47.60	0.0
GEC2	14.24	335	Pn	38	29.60	6 9X
	0.5s	0.79nm			3.7mb	
HFS	24.62	349	eP	40	17.60	-2.6
	0.5s	3.00nm			4.2mb	

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

? MAY 12, 1993 07h 35m 18.94± 3.02s
36.797 S ±28.6km 177.930 E ±22.6km
DEPTH = 80.0km (geophysicist)
OFF E. COAST OF N. ISLAND, N.Z. (160)

HBZ	0.85	160	P	35	36.50	0.0
PUZ	1.30	169	P	35	42.10	0.0
			eS	35	59.80	
URZ	1 60	204	P	35	46.00	0.1
			eS	36	06.50	
KUZ	1.78	271	eP	35	48.30	0.0
NOZ	1.82	177	eP	35	48.80	-0.1

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

? MAY 12, 1993 07h 39m 02.17± 0.80s
31.290 S ±34.1km 68.118 W ±20.0km
DEPTH = 100.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.30	262	iPc	39	17.00	0.0
			S	40	07.50	
CFA	0.33	198	ePc	39	17.20	0.0
			S	39	28.70	
RTCB	0.62	251	ePd	39	19.00	-0.2
			S	39	30.20	
RTBS	1.20	252	ePd	39	25.30	0.2
			S	39	43.40	
RTPR	1.70	55	iPc	39	31.30	0.0
			S	39	53.30	

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

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* MAY 12, 1993 08h 11m 01.99± 0.82s
41.641 N ±14.0km 142.198 E ±16.2km
DEPTH = 33.0km (normal)
4.2mb (5 obs.)
HOKKAIDO, JAPAN REGION (224)

MAT	5.96	213	eP	12	30.00	-0.3
			(S)	14	06.00	
FBA	44.93	35	ePc	19	15.20	0.2
	1.0s	7.00nm			4.5mb	
GUN	47.46	272	P	19	36.40	0.4
	0.4s	13.00nm			5.3mb X	
KKN	47.97	272	P	19	40.20	0.4
GKN	48.34	273	P	19	42.80	0.2
INK	50.04	29	eP	19	55.50	0.7
	0.5s	1.00nm			4.1mb	
MBC	51.95	17	eP	20	09.00	-0.3
YKA	59.55	32	eP	21	12.10	8.0X
	0.4s	0.10nm			3.3mb	
HFS	70.15	335	eP	22	12.20	-0.6
	0.4s	1.30nm			4.3mb	
NB2	70.18	337	P	22	12.20	-0.8
	0.6s	1.10nm			4.1mb	

S.D. = 0.6 on 9 of 10 obs.

? MAY 12, 1993 08h 18m 02.54± 3.51s
32.424 S ±28.8km 71.335 W ±19.5km
DEPTH = 70.0km (geophysicist)
NEAR COAST OF CENTRAL CHILE (135)
MD 3.6 (SAN).

ROCH	0.61	154	iP	18	17.08	0.2
			eS	18	27.40	
JACH	0.68	113	iP	18	17.48	0.0
			iS	18	28.25	
PEL	0.90	143	iP	18	20.29	0.2
			iS	18	32.98	
LCCH	1.07	191	iP	18	22.23	0.1
			iS	18	36.79	
FCH	1.26	136	iP	18	24.65	-0.3
			iS	18	41.73	
TACH	1.27	165	iP	18	25.19	0.3
			iS	18	41.52	
PCH	1.38	150	iP	18	26.40	0.0
			iS	18	43.94	
LNV	1.53	182	iP	18	27.83	-0.4
			iS	18	47.06	
CHCH	1.61	159	iP	18	29.47	0.0
			iS	18	49.94	

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

% MAY 12, 1993 09h 01m 47.68± 1.09s
39.072 N ± 8.0km 27.670 E ±13.2km
DEPTH = 10 0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

IZM	0.75	205	iPg	02	02.30	0.0
			iSg	02	13.80	
EDC	1.28	7	iPn	02	12.00	0.6
EZN	1.28	306	iPn	02	11.50	0.0
KCT	1.29	24	iPn	02	11.70	0.1
BNT	1.30	8	ePn	02	11.00	-0.7

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

MAY 12, 1993 09h 03m 18.88± 0.42s
7.093 N ± 6.3km 127.033 E ± 9.0km
DEPTH = 33.0km (normal)
4.6mb (6 obs.)
PHILIPPINE ISLANDS REGION (248)

DAV	1.45	270	eP+	03	44.00	1.0
CGP	2.68	300	iPd	04	01.50	0.8
			eS	04	32.00	
MAP	4.40	317	iPd	04	24.00	-1.2
			eS	05	09.00	
PLP	4.53	334	ePd	04	26.80	-0.1
LOE	26.73	295	eP	09	08.80	11.3X
TKSJ	27.53	13	P	09	04.20	-0.4
WKYJ	28.13	15	P	09	09.80	-0.3
YONJ	28.58	11	P	09	13.60	-0.5
QIS	30.13	156	iPd	09	28.00	-0.1
MAT	31.04	18	eP	09	33.00	-3.0
	0.6s	6.67nm			4.6mb	
ASPA	31.30	168	iPd	09	37.90	-0.5
	0.3s	6.40nm			4.9mb	
CTA	32.97	145	eP	09	54.00	1.0
WARB	33.08	181	eP	09	52.00	-1.9
LZH	35.82	327	eP	10	30.00	12.5X
	1.6s	79.00nm				
	Z 24s	0.42um			4.1MszX	
FORT	37.67	179	eP	10	32.00	-0.9
HOOJ	37.97	20	eP	10	37.30	2.0
KUSJ	39.09	21	eP	10	45.80	1.1
ASAJ	39.33	18	eP	10	47.70	1.0
STK	41.17	161	iPc	11	02.00	0.0
	0.3s	3.60nm			4.6mb	
BRS	42.38	145	iP	11	13.00	1.0
			i	11	20.00	
			e	11	27.00	
ARMA	44.13	149	eP	11	27.00	0.7
	0.7s	6.00nm			4.5mb	
			e	11	41.30	
IMA	79.21	24	eP	15	22.70	0.6
	0.8s	4.83nm			4.5mb	
BALM	84.15	29	eP	15	47.29	-0.7
INK	86.94	22	eP	16	03.00	1.5
MBC	88.63	13	eP	16	09.50	0.0
YKA	96.33	24	eP	16	44.00	-1.3
	0.8s	1.10nm			4.4mb	

S.D. = 1.2 on 24 of 26 obs.

? MAY 12, 1993 09h 40m 49.24± 2.55s
10.981 N ±12.7km 61.981 W ±35.8km
DEPTH = 60.0km (geophysicist)
TRINIDAD (98)
MD 3.2 (TRN).

TCE	0.36	142	eP	40	59.82	-0.1
			eS	41	09.44	
TRN	0.66	120	eP	41	03.19	0.1
			eS	41	15.48	
TPP	0.84	142	eP	41	05.45	0.1
			eS	41	18.92	
TBH	1.03	119	eP	41	07.62	-0.1
			eS	41	25.10	
GRW	1.21	15	eP	41	10.39	0.0
			eS	41	30.44	

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

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* MAY 12, 1993 09h 41m 17.49± 0.91s
36.387 N ±13.6km 51.979 E ±10.2km
DEPTH = 33.0km (normal)
4.3mb (2 obs.)
NORTHERN IRAN (348)

TEH	0.81	217	eP	41	31.30	-1.3
TAB	4.81	292	e(P)	42	29.00	-0.6
MAIO	6.07	89	ePn	42	48.00	0.6
			eSn	43	55.00	
ISR	21.09	302	eP	46	02.00	0.7
VRI	21.18	304	eP	46	09.00	6.9X
OBN	21.48	335	eP	46	03.00	-2.1
	1.1s	20.00nm			4.4mb	
			e	46	17.00	
			e	49	18.00	
			e	50	10.00	
			e	50	38.00	
CVO	21.53	304	eP	46	04.50	-1.2
MLR	21.59	303	ePd	46	07.50	1.0
VAY	23.37	291	eP	46	25.50	1.7
SKO	24.25	293	iP	46	34.00	1.6
OHR	24.70	291	eP	46	37.70	0.9
HFS	34.07	326	eP	47	59.50	-1.0
	0.4s	1.30nm			4.2mb	
MBC	67.51	358	eP	52	11.50	-0.3

S.D. = 1.4 on 12 of 13 obs.

MAY 12, 1993 09h 43m 08.17± 0.69s
6.782 N ± 8.1km 73.050 W ± 7.8km
DEPTH = 168.1 ± 9.5 km
3.8mb (2 obs.)
NORTHERN COLOMBIA (99)

BOG	2.37	205	iPd	43	51.00	1.5
			iS	44	22.00	
SDV	3.18	49	iPnc	44	00.10	0.9
			iSn	44	38.10	
TOV	4.39	47	ePnc	44	15.10	0.3
			iPP	44	15.50	
			iSn	45	04.80	
CEOS	5.18	64	iPd	44	24.00	-1.1

		iS	45 22.50		
UPA	6.78	289 iP	44 43.48	-2.9	
		eS	45 58.32		
		iS	45 58.58		
OLLA	6.97	62 iP	44 47.60	-1.3	
		iS	46 03.50		
PSO	7 00	218 eP	44 51.00	1.4	
ECO	7.06	292 iPc	44 47.46	-2.6	
		iS	46 02.23		
GUAN	7.97	66 iP	45 02.50	0.2	
PCJ	11.61	340 iPd	45 51.97	2.0	
STH	11.81	342 ePd	45 54.07	1.5	
		S	47 56.56		
BBJ	12.24	341 iPd	46 01.22	3.1X	
ZOBO	23.42	168 P	48 02.90	-1.0	
		LR	52 52.00		
LPB	23.68	168 P	48 06.00	-0.2	
CNCB	23.97	168 P	48 09.70	0.5	
		e	52 43.00		
SIV	25.55	152 P	48 36.60	13.4X	
MSU	47.38	318 ePc	51 29.04	1.5	
		pP	52 05.37	162kmX	
YKA	63 32	340 eP	53 20.10	-1.0	
	0.5s	1.20nm		4.0mb	
LIC	67.53	86 P	53 48.00	-0.8	
KIC	67.81	86 P	53 49.70	-0.8	
INK	73.09	340 eP	54 24.50	3.2X	
MBC	73.85	350 eP	54 27.00	1.4	
	1.0s	1.00nm		3.5mb	
OIS	145.53	243 iPKPd	02 29.30	0.6	
ASPA	149.15	234 iPKPc	02 38.70	4.3X	
	0.6s	12.70nm			
	S.D. = 1.5	on 20 of 24 obs.			

% MAY 12, 1993 10h 22m 24.78± 1.04s
39.138 N ± 7.8km 27.658 E ±12.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

IZM	0.80	203 iPg	22 40.30	-0.1	
		iSg	22 52.80		
EDC	1.22	7 iPn	22 47.00	-0.4	
BNT	1.23	9 ePn	22 47.40	-0.3	
KCT	1.23	26 iPn	22 48.30	0.6	
EZN	1.24	304 ePn	22 48.00	0.2	
	S.D. = 0.6	on 5 of 5 obs			

% MAY 12, 1993 10h 46m 31.23± 1 56s
44.045 N ±24.9km 11.469 E ±10.3km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

PGD	0.25	133 P	46 36.70	0.1	
		eSg	46 42.10		
SFI	0.30	114 P	46 37.10	-0.4	
		eSg	46 41.70		
CRE	0.54	140 P	46 42.30	0.0	
		eSg	46 52.10		
BDI	0.63	272 P	46 43.90	0.0	
		eSg	46 58.40		
ARV	1.20	117 P	46 54.00	0.4	
	S.D. = 0.4	on 5 of 5 obs.			

? MAY 12, 1993 10h 49m 45 59± 4 83s
46.235 N ±34 6km 14.896 E ±17 1km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)

LJU	0.32	233 ePg	49 52.30	0.1	
		eSg	49 56 50		
CEY	0.59	214 iPgc	49 57.50	-0.1	
		iSg	50 04 00		
VOY	0.73	254 e(Pg)	49 59.90	0.0	
		e(Sg)	50 11.10		
VBY	0.77	161 ePg	50 00.70	0.0	
		e(Sg)	50 11.50		
	S.D. = 0.2	on 4 of 4 obs.			

MAY 12, 1993 11h 59m 14 32± 0.10s
20.460 S ± 3.0km 177.812 W ± 3.2km
DEPTH = 531.3km (7 depth phases)
5.3mb (56 obs.)
FIJI ISLANDS REGION (181)
Mw 5.5 (HRV).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN

L.P.B.: 30S, 47C
Centroid Locotion:
Origin Time 11:59 18.9 0.4
Lot 20.23S 0.05 Lon 177.89W 0.03
Dep 521.6 2.3 Half-durotion 1.4
Moment Tensor; Scale 10**17 Nm
Mrr=-1.36 0.05 Mtt=-0.49 0.10
Mff= 1.84 0.10 Mrt=-0.46 0.10
Mrf=-0.88 0.10 Mtf=-0.68 0.08
Principal Axes:
T Val= 2.19 Plg=12 Azm= 78
N -0.32 28 174
P -1.87 59 326
Best Double Couple:Mo=2.0**17
NP1:Strike=137 Dip=41 Slip=-135
NP2: 10 63 -59

SVA	4.22	303 iPc	00 36.50	-0.8	
VUN	4.28	304 iPc	00 56.70	18.9X	
PVC	13.39	279 iPd	02 09.20	1.4	
BKM	13.47	280 iPc	02 10.00	1.4	
		iS	04 42.50		
DZM	14.77	261 iPc	02 22.50	0.8	
		iS	04 57.10		
OUZ	16.54	205 eP	02 41.10	2.1	
WCZ	16.89	202 eP	02 46.20	3.8X	
KUZ	17.18	198 eP	02 47.70	2.5	
HBZ	17.41	190 eP	02 49.40	2.0	
WLZ	18.27	197 P	02 57.90	2.1	
URZ	18.28	193 eP	02 53.70	-2.1	
		eS	05 52.50		
NOZ	18.45	190 eP	02 57.60	0.1	
	0.4s	124.00nm		5.9mb	
PATZ	18.58	195 eP	02 59.60	0.7	
WHH	19.01	194 eP	03 03.00	0.0	
MOZ	19.08	198 eP	03 06.20	2.6	
NGZ	19.50	195 P	03 07.50	-0.2	
TTH	19.57	192 eP	03 08.60	0.5	
WAHZ	19.82	193 eP	03 08.50	-2.1	
KIW	21.26	195 eP	03 25.00	1.2	
MTW	21.40	194 eP	03 23.80	-1.3	
BLW	21.61	194 P	03 26.70	-0.3	
MRW	21.66	195 P	03 26.50	-1.0	
SNZO	21.74	195 P	03 28.00	-0.1	
TCW	21.75	196 P	03 28.40	0.1	
ORZ	21.91	200 P	03 29.80	0.1	
THZ	22.65	198 P	03 36.00	-0.5	
DSZ	22.97	200 eP	03 38.60	-0.8	
KHZ	23.07	197 P	03 39.10	-1.1	
LTZ	23.77	198 P	03 44.40	-2.2	
WVZ	24.51	201 P	03 51.70	-1.5	
AFR	26.65	88 iPc	04 11.50	-0.8	
	1 1s	984.60nm		6.3mb X	
PAE	26.81	89 iPc	04 13.00	-0.7	
	1.1s	656.40nm		6.1mb	
PPT	26.84	89 iPc	04 13.20	-0.7	
	1.2s	1185.30nm		6.4mb X	
Z	26s	2025.00um		7.6MszX	
PPN	26.98	89 iPc	04 14.40	-0.7	
	0.8s	219.20nm		5.8mb	
TVO	27.10	89 iPc	04 16.10	-0.2	
	0.5s	181.30nm		5.9mb	
BRS	27.71	250 iPd	04 22.00	0.5	
	0.9s	32.00nm		4.9mb	
		i	05 45.00		
PMO	28.98	84 iPc	04 31.80	-0.7	
	1.2s	616.50nm		6.1mb	
VAH	29.17	85 iPc	04 33.20	-1.0	
	1.3s	583.40nm		6.0mb	
TPT	29.24	84 iPc	04 34.10	-0.7	
	1.3s	953.10nm		6.2mb	
ARMA	29.24	244 iPc	04 35.90	1.0	
	0.6s	50.00nm		5.3mb	
RUV	29.41	85 iPc	04 35.40	-0.9	
	1.2s	1075.80nm		6.3mb X	
CNB	32.39	236 iPd	05 02.70	1.1	
	1.0s	150.00nm		5.5mb	
CAN	32.68	236 iPd	05 04.70	0.7	
		ePP	06 35.20		
		iPcP	07 35.20		
BWA	32.87	238 iPd	05 04 20	-1.4	
		ePP	06 33.60		
		iPcP	07 35 20		
CTA	33.67	264 iPc	05 12.90	0.5	
	0.5s	84.51nm		5.6mb	
		e	05 21.50	29kmX	
		eS	09 57.00		

		e	12 56.00		
TOO	36.06	234 iPc	05 33.10	1.0	
	0.7s	110.00nm		5.6mb	
		i	05 50.40	70kmX	
		e	07 11.90		
STK	37.97	244 iPc	05 48.70	0.9	
	1.0s	25.50nm		4.8mb	
		i	07 37.70		
		eS	11 02.10		
MDG	38.45	288 eP	05 52.80	0.9	
OIS	39.80	262 iPd	06 02.60	-0.2	
ADE	40.79	240 eP	06 10.00	-0.8	
ASPA	44.70	257 iPd	06 41.80	0.2	
	1.1s	295.80nm		5.7mb	
		iPcP	08 12.70		
		iPcS	12 05.90		
		iS	12 38.30		
		iScS	15 42.50		
DHH	45.85	26 eP	06 49.34	-1.0	
MTN	49.34	270 iPc	07 16.10	-0.8	
	0.7s	195.00nm		5.7mb	
FORT	49.47	247 eP	07 17.00	-0.7	
WARB	51.01	252 iPd	07 26.90	-2.2	
COOL	55.40	246 eP	07 59.20	-1.2	
MBL	57.94	257 iPd	08 17.40	-0.5	
MEEK	58.10	251 iPd	08 18.00	-1.0	
KLB	58.23	245 iPd	08 19.20	-0.6	
	0.9s	99.00nm		5.1mb	
BAL	59.23	246 eP	08 15.80	-10.7X	
MUN	59.50	244 eP	08 28.30	0.0	
	1.0s	76.00nm		5.0mb	
MRWA	60.02	247 eP	08 31.00	-0.8	
	0.5s	14.00nm		4.6mb	
NANU	61.58	255 iPd	08 42.00	0.0	
	0.4s	38.00nm		5.2mb	
DAV	62.00	290 eP	08 44.20	-0.6	
CGP	63.40	291 eP	08 54.00	0.2	
CSY	64.08	205 iPc	08 58.00	0.6	
	0.5s	45.10nm		5.3mb	
PLP	64.44	294 ePc	08 58.50	-1.9	
KHKI	65.23	270 ePc	09 04.00	-1.4	
		e	12 17.00		
KAKJ	68.95	325 P	09 27.10	-0.6	
CHJJ	69.49	324 P	09 30.20	-0.7	
SPA	69.66	180 iPd	09 33.10	1.3	
	0.9s	135.45nm		5.5mb	
		i	11 25.10	536km	
IIDJ	69.69	323 P	09 31.60	-0.6	
KKM	69.92	285 ePd	09 33.00	-1.0	
	1.4s	288.80nm		5.6mb	
WKYJ	70.16	320 P	09 35.00	0.0	
MAT	70.28	324 iPd-	09 34.80	-0.8	
	1.0s	63.00nm		5.1mb	
OFUJ	70.33	328 eP	09 35.10	-0.7	
YAMJ	70.49	326 eP	09 36.60	-0.2	
MTMJ	70.54	323 P	09 36.70	-0.5	
TSRJ	70.84	321 P	09 38.70	-0.2	
TKSJ	70.94	319 P	09 39.60	0.1	
KAGJ	71.13	315 P	09 40.70	0.0	
KUMJ	72.03	316 P	09 45.80	0.0	
ADK	72.04	1 ePd	09 43.70	-1.7	
	0.5s	56.56nm		5.4mb	
YONJ	72.10	320 P	09 46.10	-0.1	
HOOJ	72.10	331 eP	09 46.50	0.5	
KUR	72.46	335 eP	09 47.50	-0.5	
	1.0s	210.00nm		5.6mb	
SHNJ	72.86	318 P	09 49.60	-1.0	
MRRJ	73.17	329 eP	09 52.30	0.2	
LEM	73.22	269 ePc	09 54.00	0.7	
ASAJ	73.76	331 eP	09 56.70	1.3	
YSS	76.00	333 iPd-	10 07.90	0.1	
	1.0s	150.00nm		5.4mb	
		e	19 10.00		
SDN	76.93	10 eP	10 11.20	-1.5	
	1.4s	304.38nm		5.5mb	
SSE	77.80	310 Pc	10 17.50	-0.4	
	1.2s	30.00nm		4.6mb	
BCH	77.83	45 eP	10 19.04	0.8	
ARN	78.17	43 eP	10 20.83	1.0	
ABL	78.22	46 ePd	10 21.23	0.8	
SSK	78.89	47 eP	10 24.60	0.7	
ISA	79.18	45 eP	10 25.47	0.2	
	1.5s	93.33nm		5.0mb	
CMB	79.31	43 iPd	10 26.50	0.6	
	1.0s	34.00nm		4.7mb	
ORV	79.53	41 iPd	10 27.51	0.6	
GSC	80.10	47 eP	10 30.87	0.8	

12d 12h

GLA	80.27	49	ePc	10	32.29	1.4			1.5s	230.00nm		5.9mb			1.2s	148.00nm													
KGM	80.28	276	ePd	10	32.70	1.4				pP	11	29.50	39kmX	EDI	144.36	5	ePKP	17	50.20	-0.6									
LBFM	80.39	39	eP	10	32.40	0.8	GOL	90.16	47	ePd	11	19.63	0.6	EAU	144.42	5	ePKP	17	49.60	-1.3									
TNP	81.38	44	ePd	10	37.70	1.0		1.0s	9.84nm			4.7mb		EBL	144.52	5	ePKP	17	50.40	-0.7									
	0.8s	18.15nm			4.7mb				(pP)	13	17.48	530km		1.2s	73.00nm													
TPNV	81.39	45	eP	10	37.20	0.4	CHTO	90.40	290	iPd	11	21.90	1.8	EKA	144.95	5	PKPd	17	53.40	1.6									
	0.5s	7.68nm			4.5mb			1.2s	100.00nm			5.6mb			1.3s	71.40nm													
MAW	81.66	200	eP	10	38.00	0.6	YAK	92.12	338	iPd	11	26.20	-0.9	KIS	145.76	327	iPKPd	17	55.00	1.6									
	1.1s	32.61nm			4.8mb			1.2s	120.00nm			5.8mb			0.8s	400.00nm													
TUC	82.82	52	ePd	10	45.27	1.4			e	21	43.00			DMU	145.90	10	iPKPd	17	54.70	1.3									
	1.4s	79.38nm			5.1mb		LZH	92.88	307	iPd	11	33.00	1.5	WIM	145.96	7	ePKP	17	54.90	1.4									
BMW	82.85	35	P	10	44.84	1.1		2.0s	101.00nm			5.6mb		DLF	146.54	10	iPKPd	17	56.50	2.1									
VIPM	83.06	37	P	10	46.00	1.0			pP	12	11.00	149kmX		1.2s	179.00nm														
CROR	83.15	37	P	10	46.14	0.9			PP	13	30.00			WME	146.74	7	ePKP	17	56.90	2.2									
SVW	83.23	11	eP	10	44.47	-0.8	RSSD	93.00	44	ePc	11	32.00	0.1		1.1s	72.00nm													
	1.0s	35.14nm			4.9mb			1.0s	24.46nm			5.3mb		YRC	146.86	7	ePKP	17	57.00	2.1									
IPM	83.34	277	ePd	10	48.00	1.2			epP	13	31.24	536km		PPE	146.94	327	ePKPc	17	59.00	3.7X									
VGB	83.59	36	eP	10	47.29	-0.1	MEO	93.04	54	iPd	11	32.10	0.0	OJC	147.19	339	iPKPc	17	58.50	2.9									
STW	83.70	33	P	10	49.12	1.3	CIT	93.53	325	eP	11	35.00	1.1				i	18	02.80											
ARUT	83.72	46	eP	10	49.34	0.9	INK	94.19	15	eP	11	37.00	0.5	CFR	147.34	325	ePKP	17	55.00	-0.9									
SLKM	83.73	13	iPd	10	47.09	-0.7		1.0s	5.00nm			4.6mb		WIT	147.52	355	ePKP	18	00.00	4.0X									
GMW	83.77	34	eP	10	49.04	0.8	BOD	96.08	330	eP	11	44.50	-0.7	UZH	147.58	335	ePKPd	17	55.70	-0.6									
LON	83.79	35	eP	10	48.57	0.2		1.6s	23.00nm			5.2mb		HRI	147.61	300	ePKP	17	55.10	-1.9									
CP2	84.00	12	eP	10	48.17	-1.2	YKA	96.40	25	eP	11	45.20	-1.4	VRI	147.63	327	ePKPd	17	56.00	-0.5									
CRP	84.02	12	ePd	10	47.69	-1.7		1.3s	3.70nm			4.5mb		KSP	147.70	343	ePKP	17	56.00	-0.4									
JBO	84.08	37	P	10	50.61	0.7	ZAK	98.71	321	eP	11	57.00	-0.3		1.0s	123.00nm													
PGC	84.13	33	eP	10	50.50	0.6		1.7s	18.00nm			5.2mb					id	18	00.40											
	0.7s	17.00nm			4.8mb		MBC	102.71	12	ePdiff	12	15.00	0.4				i	18	04.60											
RMW	84.23	34	ePd	10	51.27	0.7	JAO	113.34	39	ePKP	16	51.50	-1.2				e	20	03.00											
MGD	84.24	345	iPd-	10	49.50	-0.8	FRU	116.34	309	iPKP	16	58.50	-0.3	SPC	147.90	337	ePKP	17	56.90	-0.1									
		e		20	30.00			2.0s	40.00nm								i	18	01.80										
JCW	84.62	34	P	10	53.05	0.6			e	18	14.00						epPKP	20	14.10											
TTA	84.87	10	iPd	10	53.29	-0.1	FRB	116.67	28	ePKP	16	57.50	-1.2	CVO	147.94	328	ePKP	18	00.50	3.5X									
	1.3s	56.26nm			5.0mb			0.5s	2.00nm					SALJ	147.95	298	PKP	18	01.40	3.9X									
PMR	84.94	13	iPc	10	52.87	-0.7	LMN	120.31	48	ePKP	17	08.00	1.8	MASJ	147.99	297	PKP	18	01.00	3.4X									
	0.5s	21.75nm			5.0mb		SVE	124.06	326	iPKPd	17	12.00	-1.1	WAJH	147.99	287	ePKP	18	02.00	4.4X									
MSU	84.95	46	ePd	10	55.64	1.1		1.5s	80.00nm					CLL	148.06	347	iPKP	18	01.00	4.1X									
		epP		12	52.12	530km	SUR	124.52	199	ePKP	17	27.00	11.9X		1.1s	200.00nm													
WAH2	85.01	36	P	10	55.19	0.9		0.6s	50.00nm								pPKP	20	06.80											
LNOR	85.20	37	P	10	55.69	0.4	ARU	125.26	325	ePKPd	17	15.00	-0.5	CLL	148.06	347	iPKP	17	56.70	-0.2									
WTV	85.37	35	P	10	56.29	0.2		1.2s	100.00nm						1.4s	33 00nm													
KLU	85.58	15	ePd	10	56.32	-0.5	FRS	125.33	205	iPKPc	17	16.00	-0.4	ISR	148.22	326	ePKP	17	59.00	1.5									
SAW	85.67	35	P	10	57.91	0.4		0.8s	26.00nm					AYN	148.24	292	ePKP	17	58.00	0.1									
BJI	85.99	315	eP	10	59.50	0.4	BLF	125.55	206	ePKP	17	14.00	-3.1X	BRG	148.26	346	iPKPd	17	57.40	0.1									
	1.8s	172.00nm			5.5mb		SEK	125.63	208	ePKP	17	17.50	0.2				i	18	01.70											
Z	20s	2.40um			5.6Msz			0.7s	22.00nm								i	18	06.10											
N	19s	1.78um					BFT	126.75	212	ePKP	17	18.50	-1.1	CEI	148.27	334	ePKP	18	04.00	6.6X									
		eS		22	04.00		PRY	126.90	208	iPKPc	17	19.10	-0.7	LISJ	148.29	297	PKP	18	01.20	3.4X									
		eSS		25	24.00			0.8s	20.00nm					MLR	148.29	327	ePKPd	17	57.00	-0.7									
BALM	86.09	16	iPc	10	59.02	-0.3	SLR	127.55	210	iPKPc	17	19.50	-1.5	WTS	148.32	355	iPKPd	18	01.80	4.5X									
HVU	86.25	43	eP	11	01.15	0.5		1.3s	40.00nm						1.0s	180.80nm													
SRU	86.37	46	iPd	11	01.85	0.6	MAIO	127.88	301	ePKP	17	21.00	-0.3				e	18	06.00											
		epP		12	59.38	534km		1.1s	14.13nm					SHWJ	148.43	295	PKP	18	02.50	4.0X									
DPW	86.42	36	eP	11	01.69	0.6			e	19	15.00			ZNT	148.44	299	ePKP	17	57.10	-1.1									
LTX	86.89	57	iPd	11	04.05	0.2	KSR	128.08	209	ePKP	17	21.50	-0.5	EYL	148.87	316	ePKP	17	57.30	-1.4									
NEW	87 24	36	ePd	11	05.12	0.1	ASH	128.73	303	ePKP	17	23.00	0.3	CMP	148.90	328	ePKPc	18	02.00	3.5X									
	1.1s	23.59nm			4.9mb		BUL	132.07	214	iPKPc	17	29.00	-0.7	PRU	148.94	344	PKP	17	57.80	-0.5									
ALO	87.24	51	iPd	11	06.20	0.7		1.1s	12.03nm						1.1s	113.90nm													
	1.2s	33.32nm			5.0mb		MTD	133.07	220	iPKPc	17	36.00	4.4X				i	18	03.20											
		epP		13	01.36	519kmX	WIN	134.83	200	ePKP	17	34.00	-1.0				e	18	08.90											
LOE	87.42	290	eP	11	09.00	2.6			e	20	09.00						e	19	40.30											
		e		34	50.70		KAF	135.16	344	ePKP	17	30.20	-3.9X				e	20	08.00											
MCMT	87.81	40	iPd	11	09.00	1.0		0.4s	1.90nm					MOX	148.97	348	ePKP	17	58.60	0.2									
		e		13	06.70	532km	LSZ	136.25	218	iPKPd	17	38.00	0.3				i	18	03.60											
ILT	88.10	360	iPc	11	08.70	0.2			i	19	47.00						e	18	09.00											
	1.5s	50.00nm			5.1mb				i	20	22.00						epPKP	20	07.00											
		i		13	04.60	522km			i	20	29.00			HQL	149.00	293	ePKP	17	58.67	-0.4									
		iS		21	08.00		OBN	136.80	332	ePKP	17	37.00	-0.4	CSS	149.02	304	ePKP	18	03.60	4.6X									
FBA	88.16	12	iPd	11	07.88	-1.1		1.4s	60.00nm					HRT	149.05	317	iPKP	18	02.30	3.4X									
	0.8s	50.91nm			5.4mb		NUR	136.95	344	ePKP	17	26.20	-11.3X	BADA	149.15	292	iPKPd	18	04.67	5.4X									
		epP		13	02.48	515kmX	GRO	137.21	312	ePKP	17	39.00	0.4	RMN	149.15	295	ePKP	17	58.80	-0.6									
IMA	88.18	10	ePd	11	08.75	-0.4		2.0s	2.00nm					GBZT	149.21	317	iPKPc	18	03.60	4.6X									
	1.2s	26.66nm			5.0mb		Z	18s	1.00um			5.6Msz		BNS	149.31	354	iPKPd	18	04.00	5.2X									
		epP		13	03.75	517kmX	N	12s	0.50um					YLV	149.38	317	ePKP	18	02.70	3.3X									
NST	88.19	287	eP	11	12.00	2.0	E	20s	1.00um					ENN	149.61	355	iPKPd	18	04.90	5.6X									
		e		34	01.00				i	20	24.00				1.0s	80.00nm													
BGMT	88.51	40	iPd	11	12.10	0.9	NB2	138.96	353	PKP	17	31.00	-10.3X				e	18	11.50											
LRM	88.57	39	ePd	11	12.20	0.7		0.7s	2.60nm					CTT	149.65	319	iPKP	18	03.30	3.6X									
NVL	88.77	183	iPd	11	12.00	0.2	UPP	139.13	348	iPKP	17	32.90	-8.6X	DMK	149.66	320	ePKP	18	04.10	4.4X									
	1.0s	81.00nm			5.6mb		HFS	139.53	351	ePKP	17	32.90	-9.3X	SRO	149.75	338	ePKP	18	04.30	4.7X									
		e		20	50.00			0.4s	12.10nm					BUD	149.78	337	ePKP	18	04.50	4.8X									
BW06	88 82	43	iPd	11	12.97	0.2	EDU	143.76	5	ePKP	17	47.40	-2.3	ZST	149.83	340	ePKP	18	00.30	0.6									
	0.8s	15.21nm			4.9mb		EAB	143.99	6	ePKP	17	48.00	-2.1				i	18	05.60											
LCCM	88.92	40	ePd	11	13.90	0.9		1.2s	81.00nm								e	18	13.00											
KHT	89.25	286	eP	11	17.00	2.1	COP	144.00	350	iPKPd	17	49.90	-0.2				e	20	09.40											
		e		32	45.50			1.0s	212.00nm					TNS	149.89	352	iPKPd	18	05.60	5.8X									
KMI	89.49	297	Pd-	11	17.50	1.3	EBH	144.01	5	ePKP	17	48.30	-1.9				ePKPab	18	11.90											

12d 12h

GZR	149.89	330	ePKPd	18	08.50	8.5X
GRF	149.96	348	ePKPd	18	00.00	0.1
			id	18	06.10	
			e	18	12.70	
SNF	149.97	357	iPKPc	18	00.34	0.5
			id	18	05.70	
			ic	18	13.11	
KHC	149.97	345	ePKP	18	00.00	0.0
	1.3s	105.50nm				
			i	18	06.00	
			i	18	14.40	
			e	20	12.50	
			e	21	41.50	
VKA	150.01	341	(PKP)	18	06.10	6.1X
			i	18	13.10	
			i	18	21.20	
WET	150.13	346	iPKPc	18	00.60	0.4
			i	18	06 50	
			i	18	14.60	
KCT	150.20	317	iPKP	18	05.30	4.7X
GEC2	150.21	345	e(PKP)	18	06.60	6.2X
	0.9s	40.80nm				
GEC2	150.21	345	PKP	18	00.40	0.0
	1.3s	11.06nm				
			e	18	06.40	
			e	18	14.70	
			e	20	12.40	
			e	20	26.60	
BZS	150.25	332	ePKP	17	59.00	-1.4
DOU	150.37	357	PKPd	18	06.90	6.4X
			ec	18	18.10	
			e	20	15.10	
WLF	150.69	355	iPKPc	18	00.77	-0.2
			id	18	07.75	
UZD	150.69	337	ePKP	18	06.80	5.7X
ELL	150.89	310	ePKP	18	08.00	6.1X
LANF	151.19	352	PKP	18	01.88	0.1
ALN	151.25	320	ePKP	18	07.98	5.9X
FUR	151.40	347	ePKP	18	02.70	0.6
			i	18	09.10	
			i	18	20.10	
BHG	151.46	345	iPKPc	18	02.30	0.1
			i	18	09.30	
			i	18	20.60	
FLN	151.68	4	iPKPd	18	02.30	-0.2
	1.2s	41.95nm				
CIN	151.78	313	iPKPc	17	54.70	-8.2X
CIN	151.78	313	ePKP	18	10.00	7.1X
WLS	151.80	353	PKP	18	01.69	-1.0
CDF	151.81	353	PKP	18	02.04	-0.8
LDF	151.87	3	iPKPc	18	02.60	-0.1
	1.3s	32 85nm				
KBA	151.94	344	iPKPd	18	01.60	-1.5
	1.4s	20.40nm				
			i	18	02.60	
			i	18	09.30	
			i	18	22 80	
			iPP	21	50.80	
GRR	152.03	4	iPKPd	18	03.10	0.1
	1.5s	40.20nm				
WATA	152.13	346	iPKPd	18	01.90	-1.5
			i	18	10.20	
			i	18	22.80	
VITF	152.14	355	PKP	18	02.88	-0.3
WTTA	152.18	346	iPKPd	18	03.00	-0.5
			i	18	10.60	
			i	18	23.30	
PTJ	152.22	339	ePKP	18	03.30	-0.1
MOTA	152.22	347	iPKPd	18	02.30	-1.2
			i	18	10.40	
			i	18	23.00	
FEL	152.25	352	PKP	18	03.05	-0.4
ZAG	152.28	339	ePKP	18	04.00	0 6
HAU	152.32	354	iPKPd	18	03.40	0.0
SOTA	152.31	347	iPKPd	18	01.80	-1.8
			i	18	10.70	
			i	18	23.40	
LPF	152.37	5	iPKPd	18	03.50	0.1
	0.9s	10.00nm				
MOF	152.38	353	PKP	18	03.05	-0.6
BSF	152.44	353	iPKPd	18	03.70	0.0
RBL	152.46	343	PKP	18	03.30	-0.5
SRS	152.53	323	ePKP	18	10.18	6.2X
FVI	152.53	344	PKP	18	03.20	-0.5
LJU	152.54	341	ePKP	18	03.00	-0.8
LJU	152.54	341	ePKP	18	11.00	7.2X
			ePKPab	18	23.00	
			epP'bc	20	12.00	
OGA	152.69	347	iPKPc	18	04.80	0.6
BBS	152.72	352	PKP	18	03.74	-0.3
VOY	152.74	342	iPKP	18	03.50	-0.7
VOY	152.74	342	ePKP	18	11.20	7.0X
VBY	152.80	340	ePKP	18	04.00	-0.1
VBY	152.80	340	iPKP	18	12.00	7.9X
			ePKPab	18	25.20	
CEY	152.85	341	ePKP	18	03.60	-0.7
CEY	152.85	341	ePKP	18	11.50	7.2X
			ePKPab	18	25.00	
KNT	152.88	324	ePKP	18	11.42	7.0X
LOMF	152.91	353	PKP	18	03.40	-1.0
VAY	152.95	325	ePKP	18	11.70	7.2X
	1.4s	109.00nm				
			i	18	26.50	
SKO	153.08	327	iPKP	18	04.50	-0.2
	1.3s	30.00nm				
SKO	153.08	327	iPKP	18	12.40	7.7X
			i	18	27.60	
RIY	153.22	341	iPKP	18	12.20	7.5X
LOR	153.22	357	iPKPd	18	04.90	0.2
	1.3s	24.90nm				
CTI	153.32	345	PKP	18	04.80	-0.2
SSF	153.44	358	iPKPd	18	05.30	0.3
	1.2s	22.90nm				
LBF	153.50	357	iPKPd	18	05.30	0.2
	1.7s	41.15nm				
AVF	153.72	358	iPKPd	18	05.30	0.0
	1.3s	12.25nm				
SMF	153.85	357	iPKPd	18	05.70	0.1
	1.2s	15.45nm				
MFF	153.85	4	iPKPd	18	05.60	0.1
	1.4s	25.25nm				
FNA	153.97	325	ePKP	18	14.33	8.4X
OHR	154.04	327	iPKP	18	06.00	0.0
	1.3s	80.00nm				
			i	18	14.20	
VAI	154.09	349	PKP	18	05.90	0.1
TCF	154.24	360	iPKPd	18	06.30	0.2
	1.2s	24.10nm				
LSF	154.27	1	iPKPd	18	06.10	0.0
MAF	154.30	359	iPKPd	18	06.50	0.3
LPL	154.73	353	iPKPd	18	07.60	0.5
	1.5s	13.05nm				
LPG	154.75	352	ePKP	18	07.60	0.4
	1.0s	6.20nm				
RJF	155.22	1	iPKPd	18	07.60	0.2
	1.1s	15.15nm				
SFI	155.26	343	PKP	18	07.80	0.3
PGD	155.33	343	PKP	18	08.10	0.2
CAF	155.60	0	ePKP	18	08.40	0.4
SAOF	156.12	350	PKP	18	08.67	-0.1
AUTN	156.13	351	PKP	18	08.79	-0.2
SBF	156.26	351	ePKP	18	08.60	-0.4
FRF	156.67	352	iPKPd	18	09.30	-0.1
LRG	156.81	352	iPKPd	18	09.70	0.2
LMR	156.91	352	iPKPd	18	09.50	-0.2
	1.5s	31.85nm				
PGF	157.24	347	iPKPd	18	10.10	-0.2
	1.3s	38.25nm				
KDS	164.13	117	iPKP	18	18.00	0.0
LIC	164.21	153	PKP	18	18.30	0.2
			PKPab	19	17.20	
KIC	164.46	153	PKP	18	18.60	0.3
			PKPab	19	18.40	
TIC	164.59	152	PKP	18	18.70	0.2
			PKPab	19	19.10	

S.D. = 1.0 on 283 of 338 abs.

MAY 12, 1993 13h 06m 44.02± 0.24s
3.836 S ± 4.1km 135.481 E ± 5.0km
DEPTH = 33.0km (normal)
5.0mb (32 obs.) 5.3Msz (29 abs.)
IRIAN JAYA REGION, INDONESIA (196)
Mw 5.5 (HRV).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 25S, 43C
Centraid Location:
Origin Time 13:06:45.9 0.4
Lat 3.79S 0.05 Lon 135.31E 0.06
Dep 15.0 FIX Half-duration 1.8
Moment Tensar: Scale 10**17 Nm
Mrr=-0.56 0.07 Mtt=-1.27 0.08
Mff= 1.83 0.10 Mrt= 0.20 0.19
Mrf= 1.08 0.26 Mtf= 1.11 0.07

Principal Axes:

T	Val= 2.56	Plg=19	Azm=287
N	-0.91	68	136
P	-1.65	10	21

Best Double Couple:Ma=2.1•10••17
NP1:Strike= 65 Dip=69 Slip= 7
NP2: 333 84 159

MNDI	8.46	106	eP	08	47.00	-0.6
MTN	9.93	205	eP	09	04.60	-3.0
			eS	10	53.00	
MNI	11.86	296	ePc	09	34.00	0.1
PMG	12.85	116	eP	09	46.00	-1.1
DAV	14.68	318	eP	10	09.80	-1.4
RAB	16.64	92	eP	10	36.00	-0.6
			iS	13	50.00	
QIS	17.10	167	eP	10	37.30	-5.0X
			ipP	10	48.50	
			iS	13	43.50	
PLP	18.20	325	ePc	10	54.00	-2.0
CTA	19.27	148	iPc+	11	08.00	-0.9
	1.0s	47.50nm			4.7mb	
			eS	14	33.00	
TSM	19.36	294	ePd	11	09.90	-0.1
GUA	19.64	28	eP	11	10.70	-2.4
Z	20s	7.07um				
GUMO	19.66	28	eP	11	11.10	-2.2
	1.0s	137.50nm			5.2mb	
Z	20s	2.01um			4.1Msz	
ASPA	19.77	184	iPc	11	12.40	-2.1
	0.7s	503.70nm			5.9mb	
Z	22s	18.10um			5.5Msz	
			eS	14	44.00	
KHKI	20.26	256	ePc	11	10.10	-9.5X
			e	17	07.80	
MBL	22.98	220	eP	11	47.80	0.9
			eS	16	03.00	
WARB	23.78	200	iPd	11	55.10	0.4
			eS	16	19.00	
BAG	24.93	324	eP	12	04.50	-1.6
NANU	26.83	224	eP	12	23.50	0.0
FORT	27.70	194	eP	12	27.00	-4.3X
MEEK	27.83	214	eP	12	34.40	1.8
LEM	27.90	263	ePd	12	33.50	0.0
	1.0s	20.00nm			4.8mb	
			eS	17	20.00	
			eLR	19	30.00	
STK	28.48	169	iPd	12	38.10	-0.3
	1.2s	8.50nm			4.3mb	
			eS	17	42.70	
BRS	28.66	147	iP	12	38.00	-2.0
	1.0s	7.00nm			4.3mb	
Z	18s	53.00um			6.2Msz	
			e	12	42.00	
			i	12	56.00	
			iS	17	30.00	
ARMA	30.53	152	eP	13	00.20	3.4X
	0.9s	15.00nm			4.8mb	
MRWA	31.29	214	eP	13	02.70	-0.7
BAL	31.99	212	eP	13	11.00	1.5
KLB	32.25	209	eP	13	11.00	-0.8
KGM	32.67	280	ePd	13	16.50	0.9
BWA	32.73	160	eP	13	18.60	2.7X
			e	13	39.20	
CAN	33.74	160	eP	13	25.10	0.4
CNB	33.86	159	eP	13	27.30	1.5
	1.0s	35.00nm			5.2mb	
TOO	34.81	166	eP	13	38.80	4.9X
	0.9s	21.00nm			5.1mb	
			ePP	14	49.30	
			e	21	51.40	
BKM	34.91	116	iPc	13	36.00	1.0
DZM	35.07	124	iPc	13	37.00	0.6
IPM	35.42	283	ePd	13	39.50	0.1
SSE	37.32	340	Pd	13	55.50	0.4
	1.2s	75.00nm			5.4mb	
Z	20s	4.10um			5.2Msz	
N	15s	1.10um				
E	15s	1.10um				
			S	19	41.00	
			PcS	20	36.00	
			SS	22	28.00	
TKSJ	37.64	358	P	13	58.40	0.7
WKYJ	37.85	0	eP	14	01.20	1.6
TSRJ	39.17	1	P	14	10.20	-0.3
LOE	39.44	303	eP	14	19.00	6.0X
CHJJ	39.81	4	P	14	16.40	0.5

12d 13h

NST 39.99 300 eP 14 18.00 0.4
KAKJ 40.07 6 P 14 16.90 -1.1
MAT 40.25 3 eP 14 18.00 -1.5
0.9s 8.40nm 4.5mb
Z 20s 1.77um 4.9Msz
eS 20 27.00
MTMJ 40.27 3 P 14 18.30 -1.5
KHT 40.97 298 eP 14 25.80 0.2
NIIJ 41.00 4 P 14 25.70 0.1
YAMJ 42.01 5 eP 14 34.40 0.5
CHTO 42.43 303 eP 14 37.40 -0.3
KMI 42.88 314 Pd- 14 42.00 0.4
2.0s 80.00nm 5.1mb
Z 25s 2.70um 5.0MszX
N 15s 0.60um
E 15s 0.90um
pP 14 48.00 20kmX
eS 21 04.00
sS 21 12.00
OFUJ 43.08 7 eP 14 46.10 3.5X
MRRJ 46.32 6 eP 15 13.80 5.3X
HOOJ 46.54 8 eP 15 10.40 0.1
KUSJ 47.46 9 eP 15 16.60 -0.9
ASAJ 48.17 7 eP 15 22.90 -0.2
LZH 49.52 326 iPd 15 35.00 1.1
1.5s 108.00nm 5.7mb
Z 24s 1.32um 4.9MszX
E 14s 0.58um
pP 15 49.00 53kmX
sP 16 04.00
PP 17 29.00
eS 22 34.00
sS 22 55.00
YUR 50.09 11 eP 15 40.50 2.7X
1.0s 150.00nm 6 0mb
YSS 51.04 6 ePd 15 46.60 1.6
0.9s 20 00nm 5.1mb
Z 20s 0.50um 4.5Msz
N 20s 0.50um
(S) 22 53 00
GUN 57.23 307 P 16 30.60 -0.6
PKI 57.46 306 P 16 31.60 -1.3
KKN 57.65 306 P 16 33.80 -0.3
DMN 57.72 306 P 16 33.80 -0.8
GKN 58.26 306 P 16 37.60 -0.6
CIT 58.65 344 eP 16 42.00 1.5
Z 20s 1.51um 5.1Msz
eS 24 46 00
PET 59.92 16 eP 16 48.00 -1.0
e 25 12.00
HYB 60.00 293 eP 16 49 00 -1 2
GBA 60.14 288 P 16 45.00 -6.1X
ZAK 60.69 337 iPc 16 55 30 0.9
1.6s 60.00nm 5.5mb
eS 25 10.00
IRK 61.82 339 ePc 17 02.50 0.4
1.4s 29.00nm 5.2mb
Z 19s 0.82um 4.9Msz
eS 25 27.90
ePS 25 46.00
e 26 44.00
MOY 62.62 337 ePc 17 08.60 1.3
1.2s 52.00nm 5.5mb
BOD 63.84 348 eP 17 14.00 -1.3
NDI 64.57 304 iPd 17 19.50 -1.1
POO 64.61 292 eP 17 29.50 8.5X
MGD 64.87 8 eP 17 22.00 0.1
1.0s 20.00nm 5.2mb
Z 18s 0.60um 4.8Msz
N 18s 0.50um
e 17 39.00
e 18 00.00
eS 26 00.00
ePS 26 38.00
eSS 30 16.00
SMY 65.08 25 P 17 30.00 6.6X
Z 21s 3 26um 5.5Msz
UER 65.46 333 eP 17 24.50 -1.4
2.0s 30.00nm 5.0mb
eS 26 11.00
YAK 65.82 357 eP 17 27.00 -0.9
1.0s 40 00nm 5.5mb
e 26 18.00
PRZ 69.12 318 iPc 17 51.00 1.6
(S) 26 58.00
HON 69.72 66 P 18 00.00 6.9X
Z 18s 0 82um 5.0Msz

ELT 70.21 331 eP 17 54.50 -1.0
1.6s 36.00nm 5.2mb
Z 18s 0.50um 4.8Msz
eS 27 05.00
FRU 71.80 317 eP 18 06.00 0.5
e 18 16.00
e 27 16.00
TIK 75.45 358 eP 18 27.00 0.9
1.5s 24.00nm 5.0mb
eS 28 06.00
ILT 78.37 16 iPd 18 44.50 2.1
1.4s 14.00nm 4.8mb
NRI 79.81 345 ePc 18 49.00 -1.2
e 18 53.00
MAW 79.88 202 eP 18 52.00 1.3
0.9s 13.33nm 4.9mb
MAIO 81.02 307 iPd 18 58.40 0.9
eS 29 12.00
ASH 82.24 309 eP 19 03.50 -0.1
TTA 83.79 25 eP 19 12.38 1.2
0.8s 6.02nm 4.8mb
SVE 84.95 328 iPc 19 18.00 1.0
1.5s 100.00nm 5.8mb
Z 15s 0.50um 5.0MszX
N 16s 0.30um
E 16s 0.50um
eS 29 41.00
eSS 35 23.00
SLKM 85.65 29 eP 19 21.57 1.1
IMA 85.82 23 eP 19 22.69 1.3
1.0s 6.10nm 4.8mb
ARU 85.95 327 eP 19 22.00 0.0
SPA 86.19 180 iPd 19 22.70 -0.5
1.2s 2.11nm 4.2mb
Z 20s 1.62um 5.4Msz
PMR 86.44 28 P 19 40.00 15.7X
Z 21s 1.84um 5.5Msz
FBA 87 84 25 eP 19 31.04 0.0
0.9s 5.32nm 4.8mb
BALM 89.54 29 eP 19 39.89 0.6
SIT 92.75 33 P 20 00.00 6.0X
Z 20s 1.23um 5 3Msz
INK 93.91 22 eP 20 01.00 1.8
MBC 97.29 13 eP 20 16.00 1.5
1.0s 3 00nm 4 8mb
WDC 101.58 50 Pdiff 20 50.00 15.4X
Z 20s 1.15um 5.4Msz
YKA 102.51 27 ePdiff 20 38.00 -0.2
0.9s 0.60nm 4.3mb
SAO 102.76 53 Pdiff 20 50.00 10.1X
Z 21s 0.94um 5.3Msz
CMB 103.48 52 Pdiff 20 50 00 6.8X
Z 20s 0.58um 5.1Msz
ISA 105.26 54 PKP 25 20.00 14.6X
Z 20s 0.99um 5.4Msz
MLR 106.38 316 ePKP 25 25.00 17.7X
DUG 108.99 49 PKP 25 20.00 7.6X
Z 19s 0.80um 5.3Msz
TUC 112.05 57 PKP 25 30.00 11.6X
Z 20s 0.98um 5.4Msz
LCI 113.29 312 PKP 25 05.20 -15.1X
BRT 113.69 313 PKP 25 17.70 -3.5X
RSSD 114.25 43 PKP 25 30.00 7.5X
Z 22s 0.56um 5.1Msz
ROI 114.52 312 PKP 25 14.80 -8.1X
GDL 114 66 48 PKP 25 30.00 6.5X
Z 19s 0.98um 5.4Msz
CSI 114.67 312 PKP 25 24.90 1.7
CZI 114.94 312 PKP 25 17.70 -5.9X
MGR 115.11 313 PKP 25 28.90 5.0X
SGO 115.16 313 PKP 25 35.50 11.5X
SOI 115.32 310 PKP 25 12.00 -12.4X
ATN 115.75 311 PKP 25 21.80 -3.4X
MNO 116.39 311 PKP 25 29.40 2.7X
MEU 116.45 310 PKP 25 24.10 -2.6
GIB 116.88 311 PKP 25 40.40 12.9X
FAI 117.36 310 PKP 25 43.30 15.0X
MIAR 125.26 50 PKP 25 50.00 6.5X
Z 20s 1 07um 5.5Msz
SLM 125.94 44 PKP 26 00.00 15.3X
Z 19s 0.68um 5.3Msz
FVM 126.11 45 PKP 26 00.00 14.9X
Z 18s 0.54um 5.3Msz
MCWV 132.12 37 PKP 26 10 00 13.5X
Z 19s 2.31um 5 9Msz
CBM 132.45 22 PKP 26 10 00 13.1X
Z 22s 1 07um 5.5Msz

GOGA 133.27 46 PKP 26 10.00 11.2X
Z 21s 0.93um 5.5Msz
HRV 134.58 28 PKP 26 10.00 9.0X
Z 21s- 1.06um 5.5Msz
CEH 134.90 41 PKP 26 10.00 8.1X
Z 20s 0.87um 5.5Msz
ARE 146.57 128 ePKP 26 27.00 3.4X
KDS 146.90 287 iPKP 26 26.00 2.3
CNCB 149.04 132 PKP 26 35.00 7.2X
LPB 149.13 132 PKP 26 35.80 8.0X
ZOBO 149.28 131 PKP 26 31.00 2.8X
1.5s 96.77nm
LR 16 44.00
CCH 150.00 135 PKP 26 37.60 8.6X
PPD 153.45 166 (PKP) 26 46.00 12.5X
SDV 153.57 78 ePKP 26 36.30 2.2
S.D. = 1.2 on 88 of 138 obs.

? MAY 12, 1993 13h 23m 14.02± 1.19s
39.139 N ± 8.9km 27.632 E ±14.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

IZM 0.79 201 iPg 23 29.40 -0.1
iSg 23 41.90
EZN 1.22 305 ePn 23 37.00 0.3
BNT 1.24 10 ePn 23 36.00 -1.0
KCT 1.24 27 ePn 23 37.90 0.8
S.D. = 1.3 on 4 of 4 obs.

MAY 12, 1993 13h 24m 16.16± 1.11s
37.836 N ± 9.6km 20.915 E ± 8.3km
DEPTH = 24.4 ± 5.1 km
3.9mb (4 obs.)
IONIAN SEA (399)
MD 3.7 (ATH). ML 3.6 (THE).

VLS 0.43 323 ePg 24 23.50 -1.6
AGG 1.62 43 iPb 24 43.60 0.0
eSb 25 03.68
IGT 1.75 345 iPb 24 48.00 2.6
eSb 25 10.24
VLI 1.96 124 ePb 24 50.00 1.6
KEK 2.07 335 ePn 24 53.00 3.0
SRN 2.16 341 ePn 24 56.10 4.8X
ATH 2.22 86 ePn 24 53.00 0.9
TPE 2.55 344 ePn 25 05.00 8.1X
KZN 2.56 15 ePn 25 00.00 3.0
LIT 2.57 28 ePn 24 57.48 0.3
eSn 25 29.04
FNA 2.97 7 ePn 25 03.20 0.5
iSn 25 38.40
PAIG 3.00 45 ePn 25 02.40 -0.8
eSn 25 39.76
THE 3.21 29 ePn 25 05.72 -0.5
OHR 3.27 358 iPn 25 07.80 0.7
i 25 15.00
i 25 48.00
i 26 00.70
i 26 13.20
Lg 26 22.50
GRG 3.32 20 ePn 25 07.72 -0.1
eSn 25 47.20
OUR 3.45 43 ePn 25 08.64 -1.0
SOH 3.53 32 iPn 25 11.00 0.2
VAM 3.59 132 ePn 25 11.00 -0.6
TIR 3.60 347 ePn 25 12.00 0.3
eSn 26 19.00
KNT 3.66 24 ePn 25 11.84 -0.7
eSn 25 54.36
VAY 3.71 20 iPn 25 13.00 -0.2
PHP 3.86 355 ePn 25 16.10 0.7
SRS 3.88 31 ePn 25 14.88 -0.7
LACI 3.91 347 ePn 25 18.00 2.0
SKO 4.15 5 iPn 25 18.00 -1.5
iSn 26 09.50
Lg 26 55.00
HVAR 6.33 329 e(Pn) 25 47.40 -2.9X
VBY 8.75 333 ePn 26 23.50 -0.6
eSn 28 02.50
PTJ 8.86 337 eP 26 26.50 0.8
CEY 9.26 331 ePn 26 29.50 -1.7
eSn 28 14.00
LJU 9.48 332 e(Pn) 26 33.00 -1.1
eSn 28 27.00
VOY 9.71 330 ePn 26 35.30 -2.2

		eSn	28	22.30	
UPP	22.14	356 iP	29	11.10	-0.3
HFS	22.79	351 eP	29	16.90	-0.9
	0.5s	4.60nm		4 3mb	
EKA	23.89	325 Pc	29	31.40	2.9
	0.9s	7.50nm		4.2mb	
NB2	24.02	348 P	29	28.90	-0.8
	0.7s	1.30nm		3.6mb	
MBC	63.43	350 eP	34	45.00	-0.5
YKA	73.82	340 eP	35	48.50	-1.5
	0.4s	0.10nm		3.2mb	

S.D. = 1.5 on 34 of 37 obs.

? MAY 12, 1993 13h 48m 56.01± 4.52s
44.161 N ±47.1km 11.526 E ±22.5km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

PGD	0.32	154 P	49	02.80	0.1
		eSg	49	08.00	
SFI	0.34	135 P	49	03.00	0.1
		eSg	49	09.40	
CRE	0.62	150 P	49	08.30	-0.2
		eSg	49	17.20	
BDI	0.68	262 P	49	09.50	0.0

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

& MAY 12, 1993 14h 22m 31.51s
64.477 N 146.977 W
DEPTH = 7.6km
3.4mb (2 obs.)
CENTRAL ALASKA (1)
<AEIC>. ML 3.9 (AEIC). Felt (III-V) ot Delto Junction, Eielson Air Force Base, Fairbanks, North Pole, Salcho ond other locotions olong the Richordson Highwoy.

HDA	0.07	172 P	22	33.40	-0.2
CCB	0.40	296 P	22	39.00	-0.5
WRH	0.48	270 P	22	40.70	-0.5
GLM	0.54	341 P	22	41.90	-0.5
FBA	0.55	321 iPc	22	41.78	-0.8
MDM	0.72	313 iPc	22	45.20	-0.8
NEA	0.91	277 iPc	22	48.54	-0.7
MCK	1.14	230 iPd	22	52.66	-0.4
		eS	23	09.77	
THY	1.19	153 ePc	22	53.78	-0.2
		eS	23	10.05	
PRP	1.21	30 iPd	22	53.95	-0.5
RND	1.36	218 iPd	22	56.75	-0.1
		eS	23	14.95	
DOT	1.53	122 P	22	59.70	0.5
		S	23	20.50	
PAX	1.65	155 ePc	23	00.85	-0.2
		eS	23	23.44	
MLY	1.71	291 iPc	23	00.48	-1.3
TRF	1.79	236 iPc	23	02.53	-0.6
		eS	23	27.65	
HUR	1.91	219 eP	23	06.34	1.6
		eS	23	30.12	
SDG	2.06	161 ePc	23	06.96	0.1
		eS	23	35.38	
TMW	2.11	122 eP	23	06.23	-1.3
FYU	2.22	18 ePd	23	08.37	-0.8
		eS	23	40.15	
TZL	2.54	163 eP	23	17.46	3.7
SCM	2.66	184 ePd	23	16.18	0.6
SML	2.75	194 eP	23	17.21	0.4
GHO	2.86	199 eP	23	19.44	1.1
KLU	3.03	170 eP	23	21.65	0.8
		eS	24	02.96	
PLRM	3.06	200 eP	23	21.52	0.5
PMR	3.06	200 eP	23	21.53	0.5
PWA	3.13	206 P	23	22.10	0.1
IMA	3.24	303 ePc	23	21.53	-2.2
		eS	24	12.97	
SKT	3.24	221 ePd	23	23.34	-0.4
		eS	24	07.06	
GLB	3.37	153 eP	23	26.54	0.9
		eS	24	10.32	
VLZ	3.37	175 eP	23	26.03	0.5
PMS	3.45	201 P	23	28.60	1.9
SUA	3.48	211 eP	23	27.99	0.8
PTE	3.75	196 eP	23	33.13	2.3
CVA	3.99	171 eP	23	35.69	1.5
CRP	4.00	219 eP	23	35.01	0.4
CPAM	4.01	219 eP	23	36.14	1.5
CP2	4.03	219 eP	23	35.38	0.4
		S	24	37.64	
CKN	4.04	219 eP	23	36.04	1.0
SPU	4.04	217 eP	23	35.87	0.8
BALM	4.06	146 eP	23	35.19	-0.2
BGL	4.07	220 eP	23	35.58	0.1
CKT	4.07	218 eP	23	36.38	0.9
SGAM	4.07	168 eP	23	36.34	0.9
HIN	4.10	177 eP	23	35.89	0.0
CKL	4.11	219 eP	23	36.81	0.8
CROM	4.13	153 eP	23	37.11	0.6
MPA	4.15	197 eP	23	38.06	1.5
TGL	4.20	151 eP	23	37.65	0.3
NKA	4.23	210 eP	23	38.25	0.5
SLKM	4.26	202 eP	23	40.42	2.3
TTA	4.31	253 ePn	23	37.94	-1.0
		ePg	23	50.17	
		eS	24	46.57	
CTGM	4.38	141 eP	23	40.58	0.6
SEW	4.54	196 eP	23	43.51	1.5
DFR	4.71	217 eP	23	44.54	-0.1
KAIM	4.72	164 eP	23	43.59	-1.1
SNH	4.72	154 eP	23	45.39	0.6
YAH	4.79	147 eP	23	43.56	-2.4
NCT	4.80	218 eP	23	47.62	1.7
SVW	5.21	233 ePn	23	52.11	0.5
		ePg	24	06.27	
		eS	25	10.99	
CNPM	5.36	204 eP	23	54.52	0.8
INK	6.62	49 ePc	24	10.20	-1.3
	0.5s	5.00nm		4.8mb X	
YKA	14.50	83 eP	25	56.20	-2.5
	0.4s	0.60nm		3.6mb	
MBC	14.77	26 eP	25	58.00	-4.1
	1.0s	1.00nm		3.3mb	

64 obs. associated

? MAY 12, 1993 14h 37m 39.55± 6.33s
33.676 S ±17.7km 70.415 W ±26.1km
DEPTH = 108.0 ± 49.6 km
CHILE-ARGENTINA BORDER REGION (127)
MD 3.8 (SAN).

PCH	0.10	303 iP	37	54.75	-0.2
		iS	38	05.69	
SAN	0.30	317 iP	37	55.29	0.0
		iS	38	06.63	
CHCH	0.32	218 iP	37	55.61	0.2
		iS	38	07.52	
FCH	0.36	17 iP	37	56.07	0.1
		iS	38	09.01	
TACH	0.44	273 iP	37	56.05	0.0
		iS	38	08.05	
PEL	0.58	337 iP	37	57.07	0.1
		iS	38	09.37	
ROCH	0.86	324 iP	37	59.62	-0.1
		iS	38	14.44	
LNV	0.87	251 iP	37	59.34	-0.2
		iS	38	13.67	
LCCH	0.98	281 iP	38	00.87	0.2
		iS	38	16.16	
JACH	1.00	351 iP	38	00.99	0.0
		iS	38	16.72	

S.D. = 0.2 on 10 of 10 obs.

% MAY 12, 1993 14h 54m 38.84± 1.82s
31.537 S ±13.4km 68.560 W ±12.3km
DEPTH = 108.2 ± 18.9 km
SAN JUAN PROVINCE, ARGENTINA (137)

RTCB	0.21	284 iPd	54	54.60	0.0
		S	55	05.00	
RTLL	0.22	21 iPc	54	54.50	-0.1
		(S)	55	05.50	
CFA	0.28	104 iPc	54	54.70	-0.1
		S	55	06.60	
RTBS	0.77	261 e(P)c	54	58.20	0.3
		S	55	12.10	
RTPR	2.15	56 ePd	55	13.90	-0.2
		S	55	40.60	
MRA	2.58	111 ePc	55	20.30	0.5
		S	55	47.80	
RFA	3.23	179 eP	55	28.30	-0.4
		S	56	05.30	
TCA	3.40	88 ePc	55	31.00	0.0
		S	56	09.00	

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

• MAY 12, 1993 15h 05m 15.17± 0.37s
7.070 N ± 6.1km 126.930 E ± 9.0km
DEPTH = 48 6km (2 depth phases)
4.3mb (8 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

DAV	1.35	271 eP	05	40.20	2.3
CGP	2.61	302 iPc	05	08.00	-47.8X
		eS	06	32.00	
MAP	4.35	318 ePc	06	18.50	-2.0
		iS	06	56.00	
LEM	23.70	235 ePc	10	26.00	2.2
OIS	30.15	156 iPc	11	22.40	-0.6
MAT	31.09	18 eP	11	30.00	-1.1
	0.7s	4.79nm		4.4mb	
ASPA	31.30	168 iPc	11	32.10	-1.0
	0.3s	6.30nm		4.9mb	
		epP	11	54.20	97kmX
		eS	16	33.20	
CTA	33.01	145 P	12	02.70	14.6X
WARB	33.06	180 eP	11	46.50	-1.9
BJI	34.22	345 eP	12	00.00	1.8
MEEK	34.46	193 eP	12	00.00	-0.6
LZH	35.78	327 eP	12	26.00	14.1X
	1.5s	19.00nm			
MRWA	37.58	196 eP	12	27.00	0.1
FORT	37.65	178 eP	12	27.00	-0.4
BAL	38.72	194 eP	12	36.20	-0.2
MUN	40.15	194 iPd	12	48.50	0.2
NWAD	40.83	193 eP	12	54.30	0.5
STK	41.18	161 iPd	12	56.60	-0.1
	0.4s	2.30nm		4.3mb	
		ipP	13	09.90	50km
GUN	44.00	303 P	13	19.40	-0.9
ARMA	44.17	149 eP	13	21.70	0.5
		e	13	34.50	47km
PKI	44.28	303 P	13	21.80	-0.7
KKN	44.46	303 P	13	22.60	-1.2
DMN	44.55	302 P	13	24.80	0.2
GKN	45.07	303 P	13	27.20	-1.4
YAK	54.87	2 eP	14	41.00	-1.7
IMA	79.27	24 eP	17	17.35	0.5
	0.6s	2.30nm		4.3mb	
CP2	79.43	29 P	17	18.03	0.1
SLKM	80.36	30 (P)	17	22.36	-0.3
FBA	81.64	25 eP	17	29.36	0.1
	0.6s	2.69nm		4.4mb	
KLU	82.47	29 eP	17	35.43	1.7
BALM	84.22	29 eP	17	44.12	1.4
INK	87.00	22 eP	17	58.00	1.8
	0.8s	1.00nm		4.1mb	
MBC	88.67	13 eP	18	06.00	1.9
	0.6s	1.00nm		4.3mb	
DAG	94.01	353 eP	18	27.90	-0.9
YKA	96.39	24 eP	18	39.90	-0.1
	0.7s	1.40nm		4.6mb	

S.D. = 1.2 on 32 of 35 obs.

? MAY 12, 1993 16h 04m 21.05± 5.98s
44.221 N ±59.9km 11.457 E ±24.8km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

PGD	0.39	151 P	04	29.10	-0.1
		eSg	04	34.20	
SFI	0.41	136 P	04	29.40	-0.1
		eSg	04	35.80	
BDI	0.64	256 P	04	33.90	0.0
CRE	0.69	149 P	04	35.00	0.2

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

% MAY 12, 1993 16h 08m 55.80± 0.89s
41.131 N ± 7.8km 28.488 E ± 8.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

CTT	0.05	290 iPg	08	57.70	-0.3
DMK	0.88	322 iPg	09	13.60	0.9
		iSg	09	25.60	
BNT	0.89	209 ePg	09	13.00	0.2
EDC	0.92	211 iPg	09	14.00	0.7
HRT	0.95	109 ePn	09	14.20	0.4

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

% MAY 12, 1993 16h 29m 00.86± 0.30s
40.310 S ± 3.0km 174.251 E ± 4.3km
DEPTH = 70.0km (geophysicist)
COOK STRAIT, NEW ZEALAND (163)

DIW	0.55	207	Pd	29	15.30	0.9
			S	29	23.70	
BSZ	0.73	46	P	29	17.80	1.5
KIW	0.75	138	P	29	16.70	0.2
TCW	0.90	179	Pc	29	18.80	0.4
MRW	0.98	160	P	29	19.50	0.1
			eS	29	32.50	
MNG	0.99	109	P	29	19.60	0.1
			eS	29	32.70	
NRZ	1.00	346	P	29	21.00	1.4
CAW	1.01	142	eP	29	20.00	0.2
WEL	1.05	158	eP	29	21.30	1.1
			eS	29	34.10	
MTW	1.27	132	P	29	23.10	-0.1
MOW	1.35	146	P	29	24.20	0.0
BLW	1.41	139	P	29	24.70	-0.3
ORZ	1.41	248	P	29	25.20	0.2
			eS	29	42.60	
CCW	1.44	181	P	29	26.10	0.7
CNZ	1.49	42	P	29	26.70	0.5
NGZ	1.54	43	P	29	27.30	0.4
WAHZ	1.73	70	Pd	29	28.50	-0.9
THZ	1.77	215	P	29	30.50	0.5
			eS	29	53.20	
MOZ	1.85	14	P	29	31.40	0.4
			eS	29	54.40	
TEHZ	1.99	82	eP	29	31.40	-1.5
KHZ	2.17	194	Pc	29	35.10	-0.3
			S	29	58.20	
WHH	2.24	51	eP	29	35.40	-1.1
DSZ	2.34	231	P	29	37.50	-0.4
WLZ	2.65	24	eP	29	42.90	0.8
LTZ	2.88	210	Pc	29	44.10	-1.3
			S	30	14.90	
URZ	3.02	48	eP	29	44.40	-2.9X
			eS	30	18.80	
NOZ	3.38	61	P	29	49.00	-3.4X
MOZ	3.60	199	eP	29	51.90	-3.4X
			eS	30	28.80	
KUZ	3.74	18	P	29	56.70	-0.6
WVZ	3.82	222	P	29	57.00	-1.4
			eS	30	37.70	
WCZ	4.36	1	P	30	05.60	-0.6
OUZ	5.11	354	P	30	15.70	-0.8
ODZ	5.43	208	eP	30	16.10	-4.9X
			eS	31	14.40	
TUZ	6.58	209	eP	30	32.20	-4.7X

S.D. = 0.8 on 29 of 34 obs.

& MAY 12, 1993 16h 32m 23.92s
59.665 N 152.042 W
DEPTH = 60.0km
SOUTHERN ALASKA (2)
<AEIC>. ML 2.7 (AEIC).

XLV	0.27	142	ePd	32	33.00	-0.9
			eS	32	40.72	
CNPM	0.43	108	iPd	32	34.86	-0.5
			eS	32	43.43	
BRLK	0.59	80	ePc	32	36.52	-0.5
			eS	32	46.35	
OPT	0.60	269	ePc	32	36.52	-0.6
			eS	32	47.44	
INE	0.65	308	ePc	32	36.83	-1.0
			eS	32	47.22	
INW	0.68	307	eP	32	37.41	-0.8
			eS	32	48.24	
AUE	0.74	246	eP	32	37.72	-1.1
			eS	32	50.55	
AUL	0.76	249	eP	32	38.43	-0.6
AUH	0.78	248	ePd	32	38.77	-0.5
			eS	32	50.36	
AUI	0.78	246	eP	32	38.62	-0.6
			eS	32	50.08	
AUW	0.79	249	ePd	32	38.83	-0.5
RDW	0.91	335	iPc	32	40.37	-0.7
			eS	32	53.27	
DFR	0.98	341	iPc	32	41.26	-0.7
			eS	32	55.38	
NCT	1.00	334	iPc	32	41.62	-0.6
			eS	32	56.03	
SYI	1.07	190	iPd	32	42.32	-0.7
			eS	32	58.02	
PDB	1.10	277	eP	32	42.38	-1.0
CDD	1.10	229	ePc	32	42.52	-1.0
			eS	32	57.64	
NKA	1.15	20	ePc	32	45.37	1.2
SLKM	1.24	46	eP	32	44.49	-1.0
MCNL	1.27	249	ePc	32	44.26	-1.5
SEW	1.38	70	eP	32	47.32	0.1
SPU	1.52	360	iPc	32	48.81	-0.5
CKT	1.54	357	iPc	32	49.16	-0.5
			eS	33	09.48	
CKL	1.54	355	ePc	32	49.30	-0.4
			eS	33	09.60	
CKN	1.57	358	ePc	32	49.75	-0.1
MPA	1.58	57	eP	32	49.94	0.0
			eS	33	10.25	
CPAM	1.60	358	eP	32	50.27	-0.1
			eS	33	10.94	
CP2	1.61	357	eP	32	50.23	-0.4
CRP	1.61	358	iPc	32	49.82	-0.8
			S	33	09.73	
BGL	1.61	354	eP	32	50.57	0.0
SUA	1.92	19	eP	32	54.66	-0.2
PTE	1.93	50	eP	32	54.13	-0.7
KDC	1.94	187	eP	32	52.58	-2.4
			S	33	16.04	
SVW	2.29	311	eP	32	57.75	-2.3
SKT	2.34	6	ePd	33	00.43	-0.2
PMR	2.41	35	(P)	33	02.65	1.1
KLU	3.53	56	eP	33	14.06	-3.5
			S	33	54.66	

37 obs. associated

? MAY 12, 1993 16h 33m 40.90± 3.57s
30.783 S ±23.2km 69.379 W ±25.4km
DEPTH = 33.0km (normal)
CHILE-ARGENTINA BORDER REGION (127)

RTCB	0.86	145	iPd	33	57.00	0.3
			S	34	09.00	
RTBS	0.88	184	e(P)d	33	56.80	0.0
			S	34	09.00	
RTLL	0.95	125	iPc	33	58.50	0.5
			(S)	34	10.00	
CFA	1.28	130	ePc	34	01.80	-0.8
			S	34	18.50	
RTPR	2.52	80	ePd	34	20.40	0.0

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

% MAY 12, 1993 16h 39m 50.69± 0.97s
33.264 S ± 8.9km 68.180 W ±11.0km
DEPTH = 33.0km (normal)
MENDOZA PROVINCE, ARGENTINA (139)

MDZ	0.68	304	eP	40	09.60	5.7X
RFA	1.52	189	iP	40	15.60	-0.4
			S	40	38.20	
CFA	1.65	358	ePd	40	17.00	-0.8
			S	40	39.80	
RTCB	1.85	343	iPd	40	20.70	0.0
			S	40	44.20	
RTBS	1.93	326	ePd	40	23.00	1.3
			(S)	40	48.00	
RTLL	1.94	353	ePc	40	21.50	-0.6
			S	40	46.50	
MRA	2.25	68	eP	40	27.90	1.6
			S	40	57.70	
TCA	3.59	59	e(P)	40	44.40	-1.1
			S	41	38.20	

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

% MAY 12, 1993 16h 56m 25.64± 0.70s
26.835 S ± 6.3km 26.790 E ± 7.4km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.4 (PRE).

BFS	0.06	184	eP	56	27.80	0.4
PRY	0.62	99	eP	56	37.50	-0.5
			S	56	45.00	
KSR	0.97	6	eP	56	44.50	-0.2
			S	56	57.00	
SWZ	1.35	255	eP	56	51.80	0.6
			S	57	09.60	
SEK	1.66	154	iPc	56	56.60	1.0
			S	57	17.00	
SLR	1.73	51	eP	56	57.00	0.3
			S	57	19.10	
BLF	2.33	193	eP	57	05.50	0.1
			S	57	33.50	
BFT	3.14	69	eP	57	31.50	14.6X
			S	58	02.70	
FRS	3.18	204	eP	57	15.50	-1.7

S.D. = 1.0 on 8 of 9 obs.

? MAY 12, 1993 17h 22m 00.18± 4.26s
44.146 N ±43.9km 11.553 E ±22.2km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

PGD	0.30	156	P	22	06.10	-0.3
			eSg	22	11.50	
SFI	0.31	136	P	22	06.50	-0.2
			eSg	22	12.70	
CRE	0.59	151	P	22	12.60	0.4
			eSg	22	21.00	
BDI	0.69	263	P	22	13.90	0.0

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

& MAY 12, 1993 17h 36m 21.61s
59.734 N 152.734 W
DEPTH = 93.1km
SOUTHERN ALASKA (2)
<AEIC>.

OPT	0.26	252	iPc	36	34.88	-0.6
			eS	36	45.17	
INE	0.37	333	ePc	36	35.33	-0.9
			eS	36	47.04	
INW	0.39	329	ePc	36	35.65	-0.6
			eS	36	47.12	
AUE	0.50	221	ePd	36	36.19	-0.6
AUL	0.50	226	ePd	36	36.32	-0.6
			eS	36	47.94	
AUH	0.52	225	ePd	36	36.58	-0.5
AUW	0.52	226	eP	36	36.54	-0.5
AUI	0.53	222	eP	36	36.51	-0.6
			eS	36	48.04	
XLV	0.59	118	ePc	36	36.77	-0.8
			eS	36	49.09	
PDB	0.74	275	eP	36	38.12	-0.9
			eS	36	51.02	
RDW	0.75	357	ePd	36	38.56	-0.8
			eS	36	51.89	
CNPM	0.79	105	iPc	36	38.76	-0.8
			eS	36	52.00	
NCT	0.84	353	iPd	36	39.26	-0.9
RDT	0.86	11	eP	36	39.49	-0.8
DFR	0.86	2	iPd	36	39.66	-0.7
CDD	0.93	210	iPd	36	39.84	-1.2
BRLK	0.94	87	ePc	36	40.16	-1.0
			eS	36	54.56	
MCNL	0.99	237	ePc	36	40.61	-1.1
			eS	36	55.08	
SYI	1.14	171	ePd	36	42.68	-0.7
			eS	36	58.42	
NKA	1.26	36	ePc	36	45.87	1.0
SLKM	1.48	57	ePc	36	46.25	-1.4
CKL	1.48	7	iPd	36	46.99	-0.8
SPU	1.49	13	iPd	36	47.07	-0.8
			eS	37	06.59	
CKT	1.49	10	iPd	36	47.12	-0.8
			eS	37	06.46	
CKN	1.52	10	iPd	36	47.63	-0.6
BGL	1.54	6	iPd	36	47.94	-0.6
CPAM	1.55	11	iPd	36	48.09	-0.6
			eS	37	08.35	
CP2	1.55	9	iPd	36	47.94	-0.9
CRP	1.56	10	eP	36	47.65	-1.3
			eS	37	07.08	
CGLM	1.62	13	eP	36	48.94	-0.6
SEW	1.70	76	eP	36	49.06	-1.3
MPA	1.85	64	ePc	36	51.35	-1.1
			eS	37	13.77	
SVW	1.99	315	iPd	36	52.56	-1.8
SUA	1.99	29	ePc	36	54.02	-0.5
			eS	37	18.51	
KDC	2.00	176	eP	36	51.66	-2.7
PTE	2.17	57	eP	36	55.31	-1.3
PMS	2.18	45	P	36	56.00	-0.9
SKT	2.33	14	ePd	36	57.72	-1.2
			eS	37	26.78	
PWA	2.38	35	P	36	59.00	-0.5

PLRM	2.57	42	eP	37 00.60	-1.5
PMR	2.57	42	eP	36 58.29	-3.8
			eS	37 28.54	
GHO	2.77	41	eP	37 02.86	-2.1
			eS	37 35.09	
SML	3.00	44	eP	37 05.88	-2.2
HIN	3.19	75	eP	37 08.10	-2.6
MID	3.27	93	P	37 10.10	-1.5
SCM	3.39	49	eP	37 11.36	-2.0
VLZ	3.47	63	ePc	37 12.16	-2.2
			eS	37 51.24	
TTA	3.57	335	eP	37 13.28	-2.7
CVA	3.59	74	ePc	37 13.25	-2.8
KLU	3.79	59	ePc	37 16.50	-2.5
SGAM	3.84	75	eP	37 16.37	-3.3
TRF	3.91	16	ePc	37 19.99	-0.7
RND	4.13	25	eP	37 22.05	-1.5
SDG	4.47	48	eP	37 26.75	-1.6
GLB	4.72	65	iPd	37 29.04	-2.8
PAX	4.77	44	eP	37 30.41	-2.1
CROM	4.89	74	eP	37 31.92	-2.4
SNH	4.99	81	eP	37 33.57	-2.0
TGL	5.04	74	eP	37 33.62	-2.7
NEA	5.15	18	eP	37 35.26	-2.5
WRH	5.23	23	eP	37 36.36	-2.4
BALM	5.32	71	eP	37 37.61	-2.5
MLY	5.40	9	eP	37 39.81	-1.4
HDA	5.42	28	eP	37 39.01	-2.4
CCB	5.44	23	eP	37 39.27	-2.5
YAH	5.54	79	eP	37 40.04	-3.4
CTGM	5.79	73	eP	37 45.04	-1.7
IMA	6.37	357	eP	37 52.48	-2.3
YKA	18.44	65	eP	40 43.10	11.0

0.8s 0.40nm
69 obs. assocloted

% MAY 12, 1993 17h 54m 57.58± 1.05s
38.396 N ± 9.6km 14.610 E ± 9.8km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO	0.47	172	P	55 07.30	0.1
			eSg	55 12.50	
GIB	0.61	229	P	55 08.50	-1.5
			eSg	55 18.70	
ATN	0.71	109	P	55 11.90	0.3
			eSg	55 24.70	
SOI	1.18	105	P	55 19.10	-0.5
FAI	1.34	214	P	55 23.70	1.4
CZI	1.45	55	P	55 22.70	-1.1
CSI	1.90	43	P	55 32.50	2.1
ROI	1.93	52	P	55 29.80	-1.0

S.D. = 1.5 on 8 of 8 obs.

% MAY 12, 1993 18h 09m 30.60± 0.99s
26 400 S ±10.0km 29.106 E ± 8.8km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)

SLR	0.99	312	eP	09 49.50	-0.5
			S	10 04.00	
BFT	1.10	50	eP	09 52.00	0.1
			S	10 05.50	
PRY	1.55	250	iPc	09 59.20	0.1
			S	10 17.70	
KSR	2.06	285	eP	10 07.00	0.6
			S	10 32.00	
SEK	2.32	214	eP	10 10.00	-0.3
			S	10 36.00	
BLF	3.74	223	e(P)	10 38.00	7.7X

S.D. = 0.6 on 5 of 6 obs.

? MAY 12, 1993 18h 48m 13.43± 0.90s
14.605 N ± 7.1km 60.953 W ± 7.7km
DEPTH = 5.0km (geophysicist)
WINDWARD ISLANDS (95)
ML 1 4 (FDF).

MVM	0.08	132	iPc	48 15.20	-0.1
			S	48 16.00	
BIM	0.14	232	iPc	48 16.51	0.1
			S	48 19.00	
CRM	0.15	14	iPc	48 16.70	0.1
			S	48 19.50	
FDF	0.23	304	iPc	48 18.00	-0.1
			S	48 21.90	

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

MAY 12, 1993 19h 17m 50.89± 0.80s
39.748 N ± 7.7km 24 178 E ± 4.9km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

PAIG	0.42	295	iPg	17 59.60	0.1
			eSg	18 06.52	
OUR	0.60	346	iPg	18 03.00	-0.1
SOH	1.24	330	iPb	18 14.14	0.1
			eSb	18 31.16	
THE	1.28	314	ePb	18 14.72	0.1
			eSb	18 34.04	
LIT	1.34	286	ePb	18 15.80	0.1
SRS	1.44	342	ePb	18 16.36	-0.6
			eSb	18 35.88	
AGG	1.60	244	ePb	18 18.68	-0.7
			iSb	18 41.00	
EZN	1.66	87	iPn	18 21.30	1.2
KNT	1.72	326	ePb	18 20.88	-0.1
			eSb	18 46.80	
GRG	1.82	312	ePb	18 23.00	0.5
ALN	1.83	51	ePb	18 21.04	-1.6
FNA	2.38	297	ePn	18 30.92	0.3
IZM	2.75	118	ePn	18 43.00	7.1X
BNT	2.94	77	eP	18 44.00	5.5X
MLR	5.89	12	eP	19 21.00	0.7

S.D. = 0.8 on 13 of 15 obs.

% MAY 12, 1993 19h 24m 21.58± 1.15s
39.878 N ± 8 4km 24.052 E ± 8.2km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

PAIG	0.29	280	iPg	24 27.29	-0.4
			eSg	24 34.64	
OUR	0.46	353	iPg	24 30.65	-0.3
SOH	1.08	331	iPg	24 42.08	0.1
			eSg	24 59.64	
SRS	1.29	344	ePb	24 44.88	-0.5
			eSb	25 03.00	
KNT	1.55	326	ePb	24 50.44	1.1
AGG	1.58	238	iPb	24 49.72	0.0
ALN	1.83	56	ePb	24 53.28	0.0

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

% MAY 12, 1993 19h 48m 05.96± 1.09s
30.788 S ±10.0km 117.091 E ±13.1km
DEPTH = 5.0km (geophysicist)
WESTERN AUSTRALIA (590)

BAL	0.38	299	iPd	48 13.60	0.1
			iS	48 18.00	
KLB	0.99	145	iPd	48 24.90	-0.2
			iS	48 36.90	
MUN	1.41	212	eP	48 31.90	-0.4
			iS	48 50.20	
MRWA	1.83	328	eP	48 38.30	0.0
			iS	49 01.40	
NWAO	2.14	177	eP	48 43.30	0.5
			iS	49 11.50	

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

% MAY 12, 1993 20h 02m 57.57± 4.07s
39.815 N ±27.7km 28.041 E ±11.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

KCT	0.50	29	iPg	03 08.00	0.4
			eSg	03 15.00	
BNT	0.55	350	iPg	03 08.00	-0.7
			eSg	03 15.00	
EDC	0.55	346	iPg	03 09.00	0.3
			eSg	03 16.00	
MFT	1.13	329	ePn	03 19.00	0.2
YLV	1.27	53	ePn	03 21.00	-0.1
CTT	1.36	12	ePn	03 22.50	-0.1

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

% MAY 12, 1993 20h 12m 06.03± 1.04s
43.081 N ± 8.1km 12.227 E ± 9.3km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ASS	0.32	92	P	12 13.00	0.3
			eSg	12 18.00	
CRE	0.58	340	P	12 18.00	0.1
			eSg	12 26.00	
ARV	0.67	51	P	12 19.00	-0.3
			eSg	12 30.00	
MNS	0.77	154	P	12 21.00	-0.1
			eSg	12 32.00	
PGD	0.88	335	P	12 23.00	0.0
			eSg	12 36.00	

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

% MAY 12, 1993 20h 39m 58.64± 0.71s
31.159 S ±10.1km 68.285 W ±10.2km
DEPTH = 100.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.23	223	ePc	40 13.40	-0.1
CFA	0.45	175	e(P)	40 14.50	0.2
			(S)	40 25.00	
RTCB	0.55	233	ePd	40 15.00	-0.1
RTBS	1.12	243	ePc	40 21.20	0.6
RTPR	1.75	61	iPd	40 29.10	0.7
MDZ	1.79	195	eP	40 29.80	0.8
			iS	40 51.90	
MRA	2.52	120	ePd	40 39.30	0.6
			S	41 05.00	
CYA	3.46	39	ePc	40 50.60	-1.0
			S	41 26.60	
RFA	3.61	182	eP	40 51.80	-1.7
			S	41 29.80	

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

• MAY 12, 1993 20h 54m 08.56± 1.35s
14.133 N ±17.8km 92.363 W ±13.5km
DEPTH = 33.0km (normol)
4.2mb (8 obs.)
NEAR COAST OF CHIAPAS, MEXICO (69)

TPX	0.77	7	iPc	54 25.70	2.7
			iS	54 38.30	
SCX	2.60	354	iP	54 53.70	4.5X
			(S)	55 27.50	
OXX	5.12	305	(P)	55 25.70	0.5
IISM	6.81	316	iP	55 03.20	-45.6X
PPM	7.75	310	iP	56 03.30	0.8
LTX	18.39	327	eP	58 21.84	-1.0
UYO	20.04	355	iPd	58 40.50	-1.2
MIAR	20.35	357	eP	58 44.17	-0.8
	1.0s	14.66nm		4.3mb	
OLY	21.29	2	(P)	58 55.40	0.8
MEO	21.32	346	iPd	58 52.90	-1.9
FNO	21.52	349	iPd	58 54.20	-2.7X
OCO	21.79	349	iPd	59 01.50	1.9
ALQ	24.31	331	eP	59 24.70	0.2
	1.0s	4.88nm		4.0mb	
ARUT	30.09	325	(P)	00 18.27	0.8
DAU	30.96	331	eP	00 25.28	0.0
RSSD	31.51	344	eP	00 29.20	-0.7
	0.7s	2.08nm		4.1mb	
BW06	32.16	336	eP	00 35.00	-0.7
	0.9s	2.40nm		4.1mb	
HVU	32.75	331	eP	00 40.87	0.2
EEO	34.27	16	eP	00 53.50	-0.2
LRM	35.85	336	eP	01 07.70	0.2
JAQ	41.70	15	ePd	01 52.20	-3.5X
SIV	43.04	133	P	02 16.40	9.3X
YKA	50.82	347	eP	03 06.50	-1.2
	0.7s	10.60nm		4.9mb	
INK	60.21	344	eP	04 15.00	-0.4
	1.0s	3.00nm		4.4mb	
MBC	63.74	353	eP	04 37.00	-1.9
	1.0s	2.00nm		4.2mb	
EKA	78.06	36	P	06 05.00	-0.5
	0.8s	4.70nm		4.6mb	
HYB	147.40	16	ePKP	13 49.00	0.0
KHT	149.29	339	ePKP	13 54.50	2.5
GBA	150.65	21	PKP	13 59.00	5.0X

S.D. = 1.3 on 23 of 29 obs.

MAY 12, 1993 21h 15m 54.29± 0.48s
38.435 N ± 5.0km 22.011 E ± 3.5km
DEPTH = 10.0km (geophysicist)
4.1mb (15 obs.)
GREECE (364)
ML 4.1 (TTG), 4.0 (TIR), 3.7 (THE). MD 3.7 (ATH).

AGG	0.64	23	ePg	16 06.32	-0.8

12d 21h

			eSg	16	17.00			MTUR	7.16	18	eP	17	55.50	13.9X				iS	32	26.50		
VLS	1.15	257	iPgd	16	14.60	-1.2		CMP	7.19	17	ePc	17	51.00	9.0X		MRA	7.54	175	e(P)	32	32.00	0.0
ATH	1.42	108	ePg	16	20.20	0.1		AZI	7.46	301	P	17	47.20	1.5		LPB	8.43	350	P	32	41.00	-3.2X
LIT	1 70	12	iPb	16	25.04	0.8		AOU	7.65	304	P	17	49.30	0.9		ZOBO	8.69	350	P	32	47.60	-0.2
			eSb	16	49.32			CVO	8.00	21	eP	17	56.50	3.1X		SIV	10.23	31	P	33	19.20	12.4X
IGT	1.71	310	ePb	16	26.52	2.3		MNS	8.14	302	P	17	56.30	1.0		S.D. = 0.8 on 6 of 8 obs.						
			eSb	16	50.40			VRI	8.21	24	eP	17	59.00	2.7		----------						
VLI	1.86	156	ePb	16	26.70	0.2		ASS	8.47	306	P	17	59.80	-0.2		% MAY 12, 1993 22h 00m 52.68± 3.26s						
KZN	1.88	354	ePn	16	28.10	1.3		ARV	8.52	309	P	17	58.90	-1.7		45.184 S ± 7.4km 167.138 E ±28.0km						
PAIG	1.98	41	ePb	16	27.34	-0.8		VBY	8.67	327	ePn	18	00.00	-2.6		DEPTH = 20.7 ± 6.2 km						
			eSb	16	53.30						eSn	19	40.50			SOUTH ISLAND, NEW ZEALAND (162)						
SRN	2.13	313	iPnc	16	33.50	3.2X		RIY	8.94	323	iP	18	03.80	-2.5		ML 3.7 (WEL).						
			iSn	17	03.50			RSM	9.05	310	P	18	09.20	1.3								
KEK	2.14	307	ePb	16	33.10	2.5		CRE	9.20	308	P	18	09.10	-1.0		MSZ	0.76	47	Pc	01	06.90	-0.1
THE	2.31	18	ePn	16	32.80	-0.2		CEY	9.22	325	eP	18	07.60	-2.6					eS	01	15.90	
			eSn	17	03.80						e(S)	19	53.00			BCZ	0.96	149	P	01	10.40	-0.1
FNA	2.40	348	ePn	16	35.24	1.0		LJU	9.41	326	e(P)	18	10.50	-2.3					S	01	22.20	
			eSn	17	05.68						eS	19	57.50			TLC	1.37	91	Pd	01	16.40	-0.4
TPE	2.42	321	iPnc	16	40.70	6.2X		SFI	9.41	309	P	18	14.10	1.2		CMCZ	1.51	89	Pd	01	18.70	-0.1
			iSn	17	19.30			PGD	9.47	308	P	18	14.10	0.2					eS	01	35.70	
OUR	2.44	38	iPn	16	34.52	-0.2		TRI	9.50	323	e(Pn)	18	09.00	-5.1X		MHZ	1.52	86	P	01	19.20	0.2
GRG	2.54	7	ePn	16	36.72	0.5					e(Sn)	19	57.20			SBCZ	1.54	87	P	01	19.30	0.1
SOH	2.60	23	ePn	16	37.44	0.3		VOY	9.68	324	eP	18	14.80	-1.9		LRCZ	1.57	86	P	01	20.00	0.3
KNT	2.81	14	iPn	16	40.60	0.5					eS	20	02.30			LSCZ	1.58	88	P	01	20.00	0.2
			eSn	17	15.20			RBL	10.14	325	P	18	20.70	-2.3		TUZ	1.91	115	P	01	24.70	0.2
OHR	2.83	341	iPn	16	43.70	3.3X		VVI	10.36	320	P	18	23.30	-2.6					S	01	46.20	
			i	16	48.70			FVI	10.62	323	P	18	27.50	-1.9		ODZ	2.49	88	P	01	32.20	-0.5
			i	17	16.50			KBA	10.73	326	eP	18	30.00	-1.1					S	01	59.00	
			i	17	21.70				0.8s		5.80nm			5.0mb		DSZ	4.83	46	eP	02	06.10	0.1
			Lg	17	36.80						i	20	16.90			S.D. = 0.3 on 11 of 11 obs.						
VAY	2.91	8	iPn	16	41.70	0.2					i	20	31.70			----------						
SRS	2.94	24	ePn	16	41.36	-0.6		CTI	10.80	318	P	18	29.30	-2.8		MAY 12, 1993 22h 03m 40.22± 1.07s						
			eSn	17	17.92			GEC2	12.01	333	Pn	18	49.40	0.9		32.850 S ± 5.0km 71.448 W ± 9.6km						
TIR	3.34	331	ePn	16	49.20	1.6					Sg	21	11.70			DEPTH = 21.8 ± 5.2 km						
			iSn	17	36.50			KHC	12.30	333	eP	18	52.00	-0.2		NEAR COAST OF CENTRAL CHILE (135)						
PRK	3.42	75	ePn	16	50.60	1.8					e	19	05.50			MD 4.0 (SAN). Felt (IV) at						
PHP	3.46	340	ePn	16	50.90	1.6					e	20	04.50			Zapallar; (III) at Papudo; (II)						
			iSn	17	47.00						e	21	36.50			at La Ligua and Petarca.						
VAM	3.49	149	ePn	16	48.20	-1.6					e	24	10.00									
SKO	3.56	353	iPn	16	53.50	2.8		PRU	12.72	338	eP	19	04.50	6.6X		ROCH	0.39	108	iP	03	48.97	0.4
			i	17	32.00			LPG	13.36	307	eP	19	07.80	1.1					iS	03	56.56	
			iSn	17	38.00				1.0s		6.80nm			4.6mb		LCCH	0.63	189	iP	03	52.36	-0.1
			iSg	17	52.00			LPL	13.38	307	eP	19	07.80	0.9					iS	04	02.59	
			Lg	17	57.00				0.8s		5.90nm			4.7mb		PEL	0.70	115	iP	03	54.07	0.3
EZN	3.63	66	eP	16	50.40	-1.3		CLL	14 35	337	ePc	19	26.00	6.6X					iS	04	04.64	
LACI	3.65	332	ePn	16	52.40	0.4		HAU	14.87	315	eP	19	31.60	5.4X		JACH	0.74	77	iP	03	52.91	-1.5
			iSn	17	40.00			SMF	15.68	307	eP	19	40.60	3.8X					iS	04	03.52	
LCI	3.67	302	P	16	51.40	-0.9			0.6s		6.95nm			4.1mb		SAN	0.89	133	iP	03	56.82	-0.1
RDO	3.84	44	ePn	16	53.40	-1.2		LBF	15.74	309	eP	19	41.60	4.0X					iS	04	10.58	
ULC	4.11	330	ePn	16	58.87	0.4			0.9s		9.65nm			4.0mb		TACH	0.91	152	iP	03	57.75	0.6
			iSg	17	48.63			LOR	15.94	309	eP	19	44.30	4.1X					iS	04	10.92	
IZM	4.12	89	iP	16	58.60	-0.1			0.8s		3.65nm			3.6mb		FCH	1.08	116	iP	03	59.75	-0.6
NPS	4.29	137	ePb	17	04.50	3.5X		AVF	16.05	307	eP	19	45.10	3.6X					iS	04	15.94	
ROI	4.39	287	P	17	03.10	0.6			0.9s		10.80nm			4.0mb		PCH	1.10	135	iP	04	00.29	-0.1
PVY	4.44	340	ePn	17	04.83	1.6		SSF	16.07	308	eP	19	45.60	3.9X					iS	04	16.63	
			iSn	17	58.93				0.8s		13.85nm			4.1mb		LNV	1.10	178	iP	03	59.84	-0.5
BRT	4.44	305	P	17	03.60	0.4		BGF	16.27	306	eP	19	48.10	3.7X					iS	04	16.07	
TTG	4.51	333	ePn	17	04.48	0.4			1.0s		23.80nm			4.3mb		CHCH	1.27	149	iP	04	03.43	0.7
			iSn	17	58.81			MFF	18.22	304	eP	20	09.50	0.8					iS	04	22.10	
BDV	4.55	329	iPnd	17	04.77	0.1			0.8s		6.45nm			3.8mb		RTBS	2.06	56	ePc	04	14.90	0.7
			iSn	17	58.93			UPP	21.62	354	iP	20	44.60	-1.7					S	04	41.80	
TDS	4.58	287	P	17	07.60	2.4		NUR	22.16	3	eP	20	51.00	-0.6		MDZ	2.19	92	eP	04	19.00	3.0X
CSI	4.65	289	P	17	07.20	1 0		HFS	22.35	349	eP	20	51.80	-1.8					iS	04	50.70	
CZI	4.66	281	P	17	06.90	0.6			0.5s		4.50nm			4.2mb		RTCB	2.63	60	ePc	04	22.50	0.2
SOI	4.70	267	P	17	09.00	2.1			Z 20s		0.04um			2.9Msz					(S)	05	03.20	
IVA	4.71	341	iPnc	17	08.46	1.3					LR	28	52.00			RTCV	2.65	69	ePc	04	23.30	0.7
			iSn	18	05.52			NB2	23.62	347	P	21	05.40	-0.6		ZON	2.68	62	eP	04	24.20	1.1
BAI	4.79	306	P	17	03.00	-5.1X			0.9s		8.50nm			4.3mb		RTLL	2.95	60	eP	04	26.50	-0.3
HCY	4.82	327	iPnc	17	08.07	-0.5		KAF	23.85	5	iP	21	07.00	-1.2					(S)	05	07.50	
			iSn	18	05.04				0.6s		2.10nm			3.9mb		CFA	2.99	66	eP	04	28.50	1.2
CIN	4.87	98	eP	17	12.00	2.7		EKA	23.91	323	Pd	21	07.90	-0.9					S	05	07.00	
NKY	4.94	333	iPnd	17	10.71	0.4			0.8s		10.60nm			4.5mb		RFA	3.14	128	eP	04	31.00	1.5
			iSn	18	08.95			YKA	73.54	341	eP	27	27.10	-1.6		RTRS	3.17	33	ePd	04	29.50	-0.3
ATN	5.16	269	P	17	13.50	0.1			0.7s		0.50nm			3.7mb		MRA	4.86	86	e(P)	04	53.00	-0.9
BRY	5.18	331	iPnc	17	13 43	-0.4			S.D. = 1.4 on 84 of 102 obs.							S.D. = 0.8 on 19 of 20 obs.						
			iSn	18	14.40			----------								----------						
PLE	5.28	339	iPnc	17	15.92	0 8		* MAY 12, 1993 21h 30m 44.03± 1.22s								? MAY 12, 1993 22h 11m 56.41± 1.15s						
			iSn	18	18.52			24.882 S ± 9.4km 66.556 W ±15.7km								33.009 S ±16.1km 178.017 W ±26.9km						
MGR	5.29	291	P	17	16.20	0.9		DEPTH = 224.0 ± 18.7 km								DEPTH = 33.0km (normal)						
SGO	5.60	294	P	17	19.90	0.3		SALTA PROVINCE, ARGENTINA (129)								4.4mb (1 obs.)						
MEU	5.77	259	P	17	19.60	-2.4										SOUTH OF KERMADEC ISLANDS* (179)						
			eSn	18	26.10			SLA	0.98	81	iPd	31	15.80	-0.8								
MNO	5.79	267	P	17	22.50	0.1					S	31	38.80			PUZ	5.89	210	eP	13	23.60	-0.2
HVAR	6.34	320	ePn	17	28.20	-1.9		FSA	1.29	158	iP	31	18.90	0.4		URZ	6.57	216	eP	13	33.70	0.5
DUI	6.63	301	P	17	34.30	0.1					(S)	31	42.60						eS	14	54.20	
RFI	6.80	297	P	17	37.63	1.1		HJA	1.97	33	ePc	31	25.00	0.7		KHZ	11 52	213	eP	14	41.20	-0.3
SDI	7.08	300	P	17	41.10	0.5		ANT	3.71	288	iP	31	43.70	0.0					eS	16	46.70	

```
CTA     34.29 283 eP     18 42.00   0.2
ASPA    43.02 270 eP     19 54.50  -0.2
         0.6s      4.30nm          4.4mb
KAF    146.99 339 ePKP   31 31.50  -2.8
         0.4s      2.00nm
NUR    148.74 338 ePKP   31 37.00  -0.1
         0.5s      5.20nm
NB2    151.32 351 PKP    31 42.80   1.7
         0.8s      2.50nm
APO    151.37 348 ePKP   31 42.40   1.3
         0.5s      1.10nm
      S.D. = 1.5  on   9 of   9 obs.
-----------------------------------------
&  MAY  12, 1993   22h 23m 29.53s
   62.898 N          150.474 W
   DEPTH = 101.8km
 CENTRAL ALASKA                    (  1)
      <AEIC>.

HUR      0.39  78 iPc    23 44.79  -0.3
                 eS     23 56.03
TRF      0.56   9 iPc    23 46.11  -0.3
                 eS     23 58.74
RND      0.90  55 iPc    23 48.99  -0.4
                 eS     24 03.34
SKT      1.04 209 iPd    23 50.61  -0.3
                 eS     24 06.52
MCK      1.09  39 iPd    23 50.93  -0.5
                 eS     24 07.16
PWA      1.28 167 P      23 53.50  -0.1
                 S      24 11.90
GHO      1.34 147 iPd    23 54.36   0.0
                 eS     24 13.65
SUA      1.45 185 ePd    23 55.61  -0.1
                 eS     24 16.73
PLRM     1.45 154 eP     23 55.03  -0.6
                 eS     24 15.70
SML      1.48 137 iPd    23 55.54  -0.5
                 eS     24 16.37
PMS      1.71 165 P      23 58.70  -0.3
                 S      24 20.40
NEA      1.80  20 iPd    23 59.00  -1.0
SCM      1.81 125 ePc    23 59.63  -0.7
                 eS     24 23.52
CRP      1.82 207 ePd    24 00.19  -0.3
CPAM     1.83 206 eP     24 00.24  -0.3
CP2      1.84 208 ePd    24 00.29  -0.5
CKN      1.86 206 eP     24 01.18   0.3
BGL      1.87 210 eP     24 01.21   0.1
SPU      1.88 204 eP     24 00.63  -0.5
CKT      1.89 206 eP     24 01.03  -0.3
WRH      1.90  33 iPd    24 00.39  -1.0
CKL      1.92 208 eP     24 01.37  -0.4
CCB      2.12  33 ePd    24 03.00  -1.2
MLY      2.14 357 iPd    24 03.70  -0.9
PTE      2.15 161 ePc    24 03.59  -1.1
HDA      2.18  44 ePd    24 03.85  -1.2
NKA      2.19 190 eP     24 06.88   1.7
PAX      2.29  86 ePd    24 06.56   0.0
MDM      2.29  25 ePd    24 05.59  -1.0
SDG      2.30  97 eP     24 07.94   1.2
FBA      2.33  29 P      24 06.00  -1.1
SLKM     2.40 177 eP     24 07.08  -1.0
MPA      2.48 167 ePc    24 07.82  -1.1
GLM      2.50  32 iPd    24 08.34  -1.0
TTA      2.53 273 P      24 08.80  -1.1
DFR      2.54 205 eP     24 09.50  -0.5
KLU      2.56 121 eP     24 08.38  -1.8
NCT      2.62 208 eP     24 10.32  -0.7
VLZ      2.64 130 eP     24 08.88  -2.2
RDW      2.67 206 eP     24 11.18  -0.6
SEW      2.85 170 eP     24 12.84  -1.1
SVW      3.02 236 P      24 16.00  -0.4
HIN      3.14 141 ePc    24 16.13  -1.9
BRLK     3.15 184 eP     24 17.51  -0.7
CNPM     3.40 187 ePd    24 20.80  -0.8
GLB      3.45 112 iPc    24 20.70  -1.6
                 eS     25 00.28
IMA      3.47 338 P      24 21.50  -1.1
CROM     4.09 118 eP     24 29.37  -1.8
TGL      4.21 117 eP     24 31.82  -1.0
BALM     4.27 112 eP     24 31.17  -2.4
CDD      4.27 203 eP     24 32.95  -0.5
SYI      4.40 193 eP     24 34.52  -0.7
YAH      4.88 118 eP     24 40.78  -1.3
        53 obs. associated
-----------------------------------------

%  MAY  12, 1993  22h 31m 45.57± 0.70s
    40.222 N ± 7.3km    26.990 E ± 5.8km
    DEPTH =   5.0km  (geophysicist)
 TURKEY                            (366)
      ML 3.0 (ISK).

MFT      0.61  21 iPg    31 57.40  -0.3
                 iSg    32 05.40
EZN      0.65 232 iPg    31 58.40  -0.1
EDC      0.68  79 iPg    31 59.00  -0.2
                 eSg    32 09.00
BNT      0.72  79 iPg    31 59.90  -0.1
                 eSg    32 10.00
KCT      1.05  88 ePn    32 05.40  -0.4
CTT      1.43  49 iPn    32 12.60   0.3
DMK      1.70  20 ePn    32 16.10   0.1
YLV      1.85  79 ePn    32 19.00   0.7
      S.D. = 0.4  on   8 of   8 obs.
-----------------------------------------
?  MAY  12, 1993  23h 02m 55 71± 0.60s
    36.388 N ±16.6km    71.314 E ±10.5km
    DEPTH =  33.0km  (normal)
    4.1mb (  1 obs.)
 AFGHANISTAN-TAJIKISTAN BORD REG.(717)

NDI      9.15 145 e(Pn) 05 38.00  29.5X
                 eSn    06 49.00
MAIO     9.54 273 eP     05 14.00   0.1
                 eS     06 52.00
GKN     14.03 123 P      06 14.60   0.2
DMN     14.60 123 P      06 22 60   0.6
KKN     14.60 122 P      06 21.20  -0.8
PKI     14.83 122 P      06 25.20   0.1
GUN     14.94 120 P      06 26.40  -0 2
HFS     43.31 322 eP     10 55.30  -0.5
         0.4s      1.40nm          4.1mb
MBC     67.44   3 eP     13 50.00   0.4
      S.D. = 0.5  on   8 of   9 obs.
-----------------------------------------
    MAY  12, 1993  23h 33m 19 18± 0.41s
    48.514 N ± 7.0km  153.229 E ± 6.9km
    DEPTH = 126.0km  (  2 depth phases)
    4.6mb ( 46 obs.)
 KURIL ISLANDS                     (221)

SKR      2.85  40 ePn    34 05.30   1.0
                 (S)    34 40.40
KUR      4.93 230 iPn    34 34.20   2.0
                 eS     35 30.50
YSS      7.24 262 ePnc   35 06.00   2.3
                 e      36 32.50
KUSJ     8.04 231 eP     35 09.70  -4.8X
                 eS     36 36.00
ASAJ     8.54 243 eP     35 23.40   2.1
HOOJ     9.29 232 eP     35 28.90  -2.4
                 eS     37 07.40
MGD     11.70 354 ePn    36 03.00   0.0
MAT     16.26 228 eP     37 03.00   1.5
YAK     18.88 324 eP     37 32.00   0.1
         1.1s    135.00nm          5 2mb
BOD     24.87 307 eP     38 31.30   0.2
         1.0s      6.00nm          4 0mb
ZAK     32.04 293 eP     39 34.70  -0.6
         1.1s     10.00nm          4.5mb
                   e     40 07.00 152kmX
IMA     32.35  38 eP     39 37.20  -0.9
         0.7s      2.47nm          4.1mb
LZH     37.94 270 eP     40 25.00  -1.0
         1.0s     45.00nm          5.2mb
                  pP     40 54.00 130km
ELT     41.12 303 eP     40 51.00  -0.7
         1.0s     12.00nm          4.6mb
MBC     42.91  21 ePd    41 06.50   0.4
         0.5s      2.00nm          4.1mb
KMI     45 66 258 Pc     41 28.50  -0.5
         1.0s     40.00nm          5.1mb
                  pP     41 33.00  15kmX
YKA     49.47  38 eP     41 57.50  -0.3
         0.6s      1.60nm          4.0mb
CHTO    52.62 255 eP     42 21.50  -0.6
         1.2s     18.40nm          4.9mb
GUN     54.94 274 P      42 38.20  -1.3
         0.4s      7.00nm          4.9mb
KKN     55.42 274 P      42 42.60  -0.2
PKI     55.48 274 P      42 42 60  -0.7
DMN     55.65 274 P      42 42.60  -1.9
GKN     55.71 275 P      42 43.40  -1.4

         0.4s      8.00nm          5.0mb
FCC     59.75  34 eP     43 14.50   2.1
KAF     61.88 335 eP     43 26.20  -0.5
BW06    63.65  55 eP     43 38.51  -0.5
         0.8s      2.63nm          4.2mb
SRU     65.61  58 eP     43 51.15  -0.5
                   e     44 21.24 123km
NB2     66.58 341 P      43 56.00  -1.3
         0.4s      1.00nm          4.1mb
HFS     66.83 339 eP     43 56.30  -2.5
         0.4s      4.20nm          4.7mb
WRA     70.21 199 P      44 18.50  -1.5
         0.6s      0.90nm          3.8mb
GBA     70.53 269 P      44 22.00  -0.2
EKA     74.64 346 Pc     44 47.50   1.8
         0.5s      5.00nm          4.5mb
CLL     74.89 335 iPc    44 46.50  -0.7
         1.1s     12.00nm          4.6mb
PRU     75.64 334 eP     44 51.50   0.0
                  eSn    59 26.00
                  eSg    59 33.00
MOX     75.87 336 eP     44 52.80   0.0
         1.6s     15.00nm          4.5mb
DMU     76.59 348 eP     44 56.40  -0.3
KHC     76.68 334 P      44 57.70   0.3
                   e     00 02.50
                   e     59 08.50
                  Sg     59 53.00
GRF     76.84 336 ePd    44 58.60   0.4
         1.0s     19.00nm          4.8mb
GEC2    76.91 334 P      44 58.40  -0.3
         0.5s      0.99nm          3.8mb
                   e     44 59.90   5kmX
                   e     45 02.70
DLF     77.12 348 eP     44 59.60   0.0
KBA     78.60 333 iPc    45 08.80   0.7
WTTA    78.93 334 iPc    45 10.50   0.6
CDF     79.05 338 iPd    45 10.10  -0.4
         1.0s     10.00nm          4.5mb
SLE     79.34 337 ePc    45 11.90   0.0
ZLA     79.63 337 ePc    45 13.80   0.3
HAU     79.66 338 iPd    45 13.30  -0.4
         1.1s      8.30nm          4.4mb
BSF     79.71 338 iPd    45 13.50  -0.5
         0.9s      6.20nm          4.4mb
OSS     79.88 335 ePc    45 15.50   0.5
SKO     80.37 326 iP     45 17.20  -0.3
VAY     80.51 325 eP     45 18.40   0.2
LDF     80.56 342 iPd    45 18.00  -0.4
         0.9s      8.50nm          4.5mb
TMA     80.76 336 ePc    45 19.80   0.1
GRR     80.90 343 iPd    45 20.10   0.0
         1.2s     25.00nm          4.9mb
LOR     80.95 339 iPd    45 20.20  -0.3
         0.8s      7.80nm          4.5mb
MMK     81.06 336 ePc    45 22.30   1.0
DIX     81.18 337 ePd    45 22.90   0.9
LBF     81.19 339 iPd    45 21.30  -0.4
         0.7s      3.40nm          4.2mb
SSF     81.23 340 iPd    45 21.80  -0.1
         1.1s     10.75nm          4.5mb
LPF     81.28 343 iPd    45 22.00  -0.1
         0.7s      6.70nm          4.5mb
EMS     81.31 337 ePc    45 23.20   0.6
AVF     81.52 340 iPd    45 23.30  -0.1
         0.7s      7.70nm          4.6mb
SMF     81.54 339 iPd    45 23.50   0.0
         0.7s      5.85nm          4.5mb
BGF     81.86 340 iPd    45 25.00  -0.2
         0.7s      6.70nm          4.5mb
LPL     81.8B 337 iPd    45 26.20   0.6
         0.7s      9.15nm          4.7mb
LPG     81.89 337 iPd    45 26.30   0.6
         0.7s      9.50nm          4.7mb
MAF     82.24 340 iPd    45 27.70   0.5
         0.7s      9.70nm          4.7mb
TCF     82.26 340 iPd    45 27.40   0.1
         0.9s      8.50nm          4.5mb
LSF     82.44 341 iPd    45 28.30   0.1
         1.1s     23.95nm          4.9mb
MFF     82.47 342 iPd    45 28.50   0.2
         0.7s      4.30nm          4.4mb
RJF     83.34 340 iPd    45 33.20   0.3
         1.1s     12.70nm          4.7mb
CAF     83.58 340 iPd    45 34.80   0.7
         1.2s      9.20nm          4.5mb
ARVI    83.72 310 eP     45 35.40   0.5
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12d 23h

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FRF     83.72 336 iPd   45 34.50  -0.3
        0.6s      2.45nm          4.3mb
LFF     83.86 341 iPd   45 35.50   0.1
        0.6s      3.50nm          4.4mb
LRG     83.89 336 iPd   45 35.80   0.2
        0.5s      6.85nm          4.8mb
LMR     83.97 336 iPd   45 36.00   0.0
        1.0s     14.40nm          4.8mb
LPO     84.01 340 iPd   45 36.60   0.4
        0.7s      4.85nm          4.5mb
PRNI    84.06 310 eP    45 37.00   0.3
SAGI    84.33 310 iPd   45 38.10   0.0
     S.D. = 0.9  on  78 of  79 obs.
-------------------------------------
?  MAY  13, 1993  00h 00m 29.23± 6.03s
   23.518 S ±46.3km  176.174 W ±29.1km
   DEPTH = 201.7 ± 51.2 km
   4.0mb (  6 obs.)
 SOUTH OF FIJI ISLANDS              (171)

DZM     16.09 272 iPc   04 06.00  -0.1
ARMA    29.44 249 eP    06 16.60   0.3
CTA     34.99 268 iPc   07 05.00   0.8
STK     38.12 248 eP    07 30.40   0.0
        0.7s      1.60nm          3.8mb
ASPA    45.56 259 iPc   08 31.40   0.6
        1.0s     10.90nm          4.2mb
     Z  20s      0.90um          4.7Msz
WB2     45.92 265 iPd   08 32.60  -1.1
        0.6s      9.80nm          4.4mb
WRA     45.93 265 P     08 33.20  -0.6
        0.7s      3.90nm          3.9mb
LTX     87.28  56 eP    12 53.95  -0.5
ALQ     87.98  50 eP    12 58.00   0.2
        1.0s      2.50nm          4.0mb
YKA     98.54  24 eP    13 45.70   0.4
        0.8s      0.30nm          3.8mb
EKA    147.80   7 PKPd  20 05.60  17.6X
        0.9s      6.50nm
KSP    151.05 344 ePKP  20 01.80   8.7X
CLL    151.36 348 iPKPd 20 02.60   9.1X
        1.0s     10.00nm
BRG    151.58 346 iPKP  20 03.00   9.1X
CSS    151.94 301 ePKP  20 03.40   8.4X
PRU    152.28 345 ePKP  20 05.80  10.9X
KHC    153.30 346 ePKP  20 07.00  10.6X
                  e     20 23.00
GEC2   153.54 345 PKP   20 06.50   9.6X
        0.8s      0.71nm
                  e     20 15.30
                  e     20 19.50
     S.D. = 0.7  on  10 of  18 obs.
-------------------------------------
?  MAY  13, 1993  00h 26m 22.12± 5.88s
   23.183 S ±49.0km  176.421 W ±30.6km
   DEPTH = 228.5 ± 51.2 km
   4.0mb (  7 obs.)
 SOUTH OF FIJI ISLANDS              (171)

DZM     15.86 271 iPc   29 55.00   0.0
ARMA    29.35 249 eP    32 06.10   0.1
        0.9s      6.00nm          4.3mb
STK     38.04 247 eP    33 20.10   0.0
        0.4s      1.70nm          4.0mb
ASPA    45.40 259 iPc   34 20.90   1.0
        1.1s      7.70nm          4.0mb
     Z  20s      0.50um          4.4Msz
WB2     45.73 264 iPc   34 21.70  -0.8
        0.6s      7.50nm          4.2mb
                  i     41 12.40
WRA     45.74 264 P     34 22.20  -0 4
        0.6s      2.40nm          3.7mb
LTX     87.28  57 eP    38 44.34   0.0
ALQ     87.95  51 (P)   38 48.00   0 5
        1.1s      2.69nm          4.0mb
MEO     93.59  54 iPc   39 12 60  -0.8
YKA     98.33  24 eP    39 34.70   0.5
        0.8s      0.30nm          3.7mb
KSP    150.67 343 iPKP  45 51.50   9.3X
CLL    150.99 348 iPKPd 45 52.00   9.3X
        0.8s     11.00nm
BRG    151.21 346 iPKP  45 52.80   9.8X
        0.7s     10.00nm
PRU    151.90 345 ePKP  45 54.50  10.4X
KHC    152.92 345 ePKP  45 56.50  10.9X
                  e     46 11.00
                  e     46 22.50
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GEC2   153.16 345 PKP   45 56.90  10.9X
        0.7s      0.52nm
                  e     46 01.80
                  e     46 09.30
     S.D. = 0.7  on  10 of  16 obs.
-------------------------------------
   MAY  13, 1993  00h 29m 32.75± 0.40s
   38.914 N ± 4.0km   26.999 E ± 4.7km
   DEPTH =   9.1 ±  3.0 km
 AEGEAN SEA                         (365)
      ML 3.6 (ISK). MD 3.5 (ATH). Felt
      in Alioga and Dikili Districts,
      Turkey.

IZM     0.56 158 iPg    29 44.20   0.2
PRK     0.66 301 iPbc   29 45.50  -0.4
                 eSb    29 54.40
EZN     1.05 330 iPg    29 53.00   0.4
                 iSg    30 07.50
CIN     1.57 147 ePn    30 00.00  -0.8
                 iSg    30 22.00
EDC     1.58  25 iPn    30 01.00   0.1
BNT     1.61  26 iPn    30 00.90  -0.4
KCT     1.70  38 iPn    30 02.90   0.2
MFT     1.88   7 ePn    30 05.00  -0.4
YER     2.05 150 ePn    30 09.00   1.2
KHL     2.06 106 ePn    30 08.00  -0.1
ALN     2.11 340 iPn    30 09.26   0.6
                 eSn    30 41.72
YLV     2.46  47 ePn    30 12.90  -0.9
CTT     2.49  26 iPn    30 12.90  -1.1
RDO     2.50 334 ePn    30 14.60   0.5
GBZT    2.66  44 ePg    30 50.50  34.1X
                 iSg    31 04.40
OUR     2.73 302 ePn    30 16.64  -0.8
                 iSn    30 57.21
PAIG    2.76 293 iPn    30 16.84  -1.1
HRT     2.80  46 ePn    30 18.00  -0.6
EYL     2.94  55 ePn    30 19.00  -1.6
DMK     2.96  11 iPn    30 20.70  -0.1
ELL     3.16 132 ePn    30 24.00   0.3
SOH     3.39 305 iPn    30 26.68  -0.3
SRS     3.42 311 ePn    30 26.32  -1.0
                 eSn    31 11.69
KNT     3.87 307 iPn    30 33.61   0.0
MLR     6.62 354 eP     31 14.50   1.8
CVO     6.93 355 eP     31 18.50   1.6
VRI     6.95 358 eP     31 32.00  14.8X
     S.D. = 0.9  on  25 of  27 obs.
-------------------------------------
   MAY  13, 1993  00h 37m 59.03± 0.80s
   46.322 N ± 8.2km   13 275 E ± 5.8km
   DEPTH =  10.0km  (geophysicist)
 AUSTRIA                            (546)
      ML 1.9 (VIE).

R8L     0.24  59 P      38 04.80   0.7
                 eSg    38 09.80
FVI     0.44 309 P      38 07.50  -0.4
                 eSg    38 14.60
VOY     0.52 124 ePg    38 09.00  -0.6
                 eSg    38 17.00
KBA     0.76   4 ePg    38 14.00   0.0
                 iSg    38 25.90
CTI     1.16 257 P      38 21.60   0.8
                 eSg    38 36.80
WTTA    1.47 311 iPgc   38 25.20  -0.5
                 iSg    38 44.90
VBY     1.61 120 e(Pn)  38 31.00   3.5X
                 eSn    38 52.00
     S.D. = 0.8  on   6 of   7 obs.
-------------------------------------
%  MAY  13, 1993  00h 46m 49.06± 0.98s
   17.141 N ±10.0km   99.087 W ± 8.7km
   DEPTH =  33.0km  (normol)
 GUERRERO, MEXICO                   ( 59)

ACX     0.79 250 iP     47 03.79   0.1
                 (S)    47 12.03
III     1.28 344 iP     47 10.97   0.0
                 iS     47 29.53
PPM     1.96  13 iP     47 19.92  -1 2
                 (S)    47 44.75
IIT     2.01  22 iP     47 21.65   0.1
IIA     2.04  11 iP     47 22.20   0.5
OXX     2.26  91 iP     47 24.76  -0.3
IISM    2.45  41 iP     47 28.50   0.9
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                 (S)    47 56.76
MRX     3.24 322 (P)    47 09.90 -28.8X
     S.D. = 0.8  on   7 of   8 obs.
-------------------------------------
?  MAY  13, 1993  00h 59m 28.22± 7.42s
   23.077 S ±57.5km  176.447 W ±41.7km
   DEPTH = 211.4 ± 60.0 km
   4.0mb (  7 obs.)
 SOUTH OF FIJI ISLANDS              (171)

DZM     15.84 270 iPc   03 01.10  -0.4
ARMA    29.36 249 eP    05 14.00   0.3
        0.7s      5.00nm          4.3mb
STK     38.05 247 eP    06 27.50  -0.4
        0.6s      2.00nm          3.9mb
ASPA    45.39 259 iPd   07 28.50   0.9
        1.2s      9.70nm          4.1mb
     Z  20s      0.50um          4.4Msz
WB2     45.71 264 iPd   07 30.00  -0.1
        0.8s     10.30nm          4.3mb
                  ipP   07 42.40  45kmX
                  i     09 08.40
WRA     45.72 264 P     07 30.50   0.3
        0.6s      3.50nm          3.9mb
ALQ     87.90  51 eP    11 55.60   0.3
        1.0s      2.50nm          4.0mb
CHTO    92.46 289 eP    12 22.50   6.0X
YKA     98.24  24 eP    12 42.60   0.7
        0.9s      0.30nm          3.7mb
HFS    142.29 352 ePKP  18 34.90  -1.6
        0.4s      0.50nm
VRI    150.50 326 ePKP  19 03.00  12.7X
KSP    150.56 343 iPKP  18 59.50   9.3X
                  i     19 11.00
CLL    150.88 348 ePKP  18 59.00   8.4X
        0.9s     11.00nm
                  i     19 11.80
MLR    151.16 326 ePKP  19 01.00   9.5X
CSS    151.50 301 ePKP  19 12.50  20.4X
PRU    151.79 345 ePKP  19 01.50   9.5X
KHC    152.82 346 ePKP  19 04.50  10.9X
                  e     19 28.00
     S.D. = 1.0  on   9 of  17 obs.
-------------------------------------
%  MAY  13, 1993  01h 34m 41.49± 1.64s
   38.158 N ±15.7km   14.128 E ±11.7km
   DEPTH =  10.0km  (geophysicist)
 SICILY                             (398)

GIB     0.19 205 P      34 44.40  -1.3
                 eSg    34 46.30
MNO     0.50 117 P      34 51.40  -0.3
                 eSg    34 59.70
MCT     0.66 217 P      34 56.00   1.3
FAI     0.95 202 P      35 02.50   2.9X
ATN     1.05  89 P      35 02.30   1.0
SOI     1.52  93 P      35 11.70   3.0X
CZI     1.89  55 P      35 13.40  -0.7
     S.D. = 1.6  on   5 of   7 obs.
-------------------------------------
&  MAY  13, 1993  02h 14m 41.43s
   64.486 N          146.976 W
   DEPTH =   7.3km
 CENTRAL ALASKA                     (  1)
      <AEIC>. ML 3.5 (AEIC), 3.4
      (PMR). Felt at Salcha.

HDA     0.08 173 iPd    14 43.37  -0.2
CCB     0.39 295 iPc    14 48.93  -0.4
WRH     0.48 269 iPc    14 50.62  -0.5
GLM     0.53 341 iPc    14 51.72  -0.5
FBA     0.54 320 P      14 51.90  -0.5
MDM     0.72 312 iPc    14 55.05  -0.7
NEA     0.91 277 iPc    14 58.36  -0.8
                 eS     15 13.22
MCK     1.15 230 eP     15 02.77  -0.4
                 eS     15 19.81
THY     1.20 153 ePc    15 03.89  -0.2
PRP     1.21  30 ePd    15 03.81  -0.4
                 eS     15 21.37
RND     1.36 218 ePc    15 06.79  -0.1
                 eS     15 24.73
PAX     1.66 156 ePc    15 10.76  -0.4
                 eS     15 33.55
MLY     1.70 290 ePc    15 10.26  -1.4
TRF     1.79 236 ePc    15 12.33  -0.8
                 eS     15 38.00
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HUR     1.92 219 eP     15 14.82   0.0
SDG     2.07 161 eP     15 16.82  -0.2
TMW     2.11 122 eP     15 19.03   1.5
FYU     2.21  18 eP     15 18.34  -0.7
                eS      15 50.02
TZL     2.55 163 eP     15 23.29  -0.5
SCM     2.67 184 eP     15 25.50  -0.1
                eS      16 01.52
SML     2.76 194 eP     15 27.17   0.3
GHO     2.86 199 eP     15 28.83   0.4
KLU     3.04 170 eP     15 32.21   1.3
PMR     3.07 200 eP     15 34.50   3.4
PWA     3.14 206 eP     15 32.98   0.9
IMA     3.23 302 P      15 32.00  -1.7
SKT     3.25 221 ePc    15 33.06  -0.8
GLB     3.38 153 eP     15 37.66   2.0
VLZ     3.38 175 eP     15 36.64   1.0
PMS     3.46 201 P      15 39.20   2.4
SUA     3.49 211 eP     15 38.50   1.3
PTE     3.76 195 eP     15 42.40   1.5
CRP     4.01 219 eP     15 44.43  -0.2
CKN     4.05 218 eP     15 44.44  -0.7
SPU     4.05 217 eP     15 46.08   0.9
BALM    4.06 146 eP     15 46.90   1.5
SGAM    4.08 168 P      15 49.50   3.9
CROM    4.14 153 eP     15 47.86   1.3
TGL     4.20 151 eP     15 47.46   0.1
SLKM    4.27 202 eP     15 48.97   0.7
TTA     4.31 253 P      15 51.70   2.8
CTGM    4.38 141 eP     15 51.89   1.9
SVW     5.22 233 eP     16 00.70  -1.0
INK     6.62  49 P      16 20.40  -1.0
        0.9s     4.40nm          4.5mb X
        44 obs. ossocioted
-------------------------------------
   MAY  13, 1993  02h 19m 09.79± 0.34s
    3.873 N ± 8.1km   95.232 E ± 8.4km
   DEPTH =  33.0km  (normal)
   4.7mb ( 14 obs )
 OFF W COAST OF NORTHERN SUMATERA(705)

IPM     5.82  83 ePd    20 37.90   1.8
        0.4s     69 00nm          5.6mb
KHT    11.34  17 eP     21 46.50  -6.1X
CHTO   15.29  13 eP     22 45.20   0.3
        0.8s     21.41nm          4.4mb
GBA    20.05 300 P      23 45.00   1.8
                S       27 11.00
HYB    21.18 311 eP     23 56.00   1.2
PKI    25.36 339 P      24 35.40  -0.6
        0.5s     11.00nm          4.7mb
DMN    25.50 339 P      24 36.60  -0.7
GUN    25.51 340 P      24 35.40  -2.0
KKN    25.61 339 P      24 37.00  -1.2
GKN    26.03 338 P      24 41.60  -0.5
BJI    40.68  25 eP     26 49.00   0.3
        1.0s     33.00nm          5.0mb
MUN    40.85 152 eP     26 51.50   1.2
COOL   42.50 146 eP     27 04.50   0.7
WARB   42.63 136 iPd    27 03.10  -1.9
        0.4s      6 00nm          4.7mb
WRA    45.12 123 P      27 25.20  -0.1
        0.8s     13.10nm          4.9mb
WB2    45.13 123 iPd    27 24.70  -0.6
        0.4s     38.10nm          5.7mb
ASPA   46.57 128 iPd    27 36.30  -0.4
        0.5s     39.10nm          5.6mb
FORT   46.57 140 eP     27 37.00   0.5
CTA    55.46 117 iPc    28 33.00 -11.1X
        0.9s      8 40nm
STK    56.60 132 eP     28 51.20  -0.8
        1.2s     4.60nm           4.4mb
BRS    63.55 123 iPc    29 39.00  -0.8
                i       30 18.50
VRI    72.34 317 eP     30 35.00   0.6
MLR    72.79 316 eP     30 37.00  -0.2
SPC    77.28 319 eP     31 03.50   0.7
SRO    78.36 318 eP     31 07.30  -1.2
ZST    79.21 318 eP     31 13.10  -0.1
                e       31 30.10
                e       45 44.20
VBY    80.22 315 e(P)   31 19.00   0.3
LJU    80.77 316 e(P)   31 22.00   0.4
CEY    80.82 316 e(P)   31 20.50  -1.4
PRU    81.06 320 eP     31 38.00  15.0X
VOY    81.21 316 e(P)   31 24.00   0.0
GEC2   81.52 319 P      31 25.70   0.1

        0.7s      1.73nm          4.2mb
                  e     31 29.40
                  e     31 35.30
                  e     31 43.30
KHC    81.62 319 eP     31 28.00   2.0
                  e     31 49.00
HFS    82.44 330 eP     31 29.00  -1.0
        0.4s      0.80nm          4.1mb
LPG    86.20 315 eP     31 50.00   0.3
        0.8s      3.75nm          4.7mb
LPL    86.21 315 eP     31 50.00   0.3
        0.7s      2.20nm          4.5mb
HAU    86.40 318 eP     31 50.10  -0.2
        0.8s      4.45nm          4.7mb
MBC    97.55   8 eP     32 43.50   2.0
ZOBO  159.53 232 ePKP   39 07.00  -0 8
                  e     39 47.00
      S.D. = 1.0  on  36 of  39 obs.
-------------------------------------
%  MAY  13, 1993  02h 27m 29 45± 0.63s
    40.606 N ± 5.0km   22.474 E ± 5.4km
    DEPTH =  10.0km  (geophysicist)
  GREECE                          (364)

GRG     0.35 351 iPg    27 36.37  -0.4
                iSg     27 42.64
THE     0.37  86 iPg    27 37.25   0.1
                iSg     27 44.12
LIT     0.51 179 iPg    27 37.94  -1.8
                eSg     27 45.68
KNT     0.64  30 iPg    27 42.17  -0.1
                eSg     27 51.76
SOH     0.70  72 ePg    27 43.36   0.0
                eSg     27 55.56
FNA     0.85 282 ePg    27 46.32   0.4
                eSg     27 57.44
SRS     0.99  59 ePg    27 47.96  -0.3
                eSg     28 03.48
PAIG    1.14 126 ePg    27 50.98   0.1
OUR     1.18 103 ePb    27 52.00   0.5
AGG     1.59 184 ePb    27 59.13   1.5
                eSb     28 21.56
      S.D. = 0.9  on  10 of  10 obs.
-------------------------------------
   MAY  13, 1993  02h 31m 55.40± 0.34s
    9.015 S ± 6.3km  160.400 E ± 8.5km
   DEPTH =  58.6km  (  2 depth phases)
   4.8mb ( 13 obs.)
  SOLOMON ISLANDS                 (193)
       Felt (III) at Honioro. Also felt
       at Bino, Maloito.

HNR     0.61 227 eP     32 13.00   4.4X
                eS      32 21.00
BKM    11.49 139 iPc    34 46.00   6.7X
                iS      36 41.00
DZM    14.22 157 iPc    35 17.00   1.6
                iS      37 50.00
CTA    17.55 230 iPc    36 02.00   4.3X
        1.5s    125.00nm          4.9mb
                i       36 26.00
BRS    19.65 201 iPd    36 24.00   1.7
        1.0s     10.00nm          4.1mb
                i       36 33.00  37kmX
ARMA   22.82 200 eP     36 55.00   0.6
        0.4s     10.00nm          4.6mb
BWA    27.58 202 iPc    37 37.70  -1.4
                ipP     37 41.30  13kmX
                e       37 54.20
CNB    28.06 199 eP     37 43.20  -0.2
CAN    28.18 200 iPc    37 44.30  -0.2
STK    28.68 215 eP     37 48.80  -0.2
        0.5s     6.00nm           4.5mb
ASPA   29.23 237 iPc    37 52.90  -1.1
        0.4s     14.40nm          5.0mb
MBL    40.86 248 iPd    39 33.20  -0.2
        0.3s     5.00nm           4.8mb
COOL   42.51 234 eP     39 46.70  -0.2
        0.4s     13.00nm          5.0mb
MEEK   43.22 241 iPc    39 53.10   0.4
        0.3s     10.00nm          5.1mb
NANU   45.05 247 eP     40 07.70   0.3
MRWA   46.17 238 eP     40 16.00  -0.3
        0.3s      6.00nm          5.0mb
MUN    46.85 234 eP     40 20.00  -1.6
KMI    65.59 303 eP     42 37.50   1.6
LZH    69.53 314 eP     43 01.00   0.6

        1.5s     30.00nm          5.0mb
                  sP    43 19.50
GUN    80.74 300 P      44 05.00   0.2
PKI    81.06 300 P      44 06.60   0.2
KKN    81.23 300 P      44 08.40   1.3
DMN    81.33 300 P      44 08.40   0.7
GKN    81.83 300 P      44 10.60   0.4
IMA    82.06  17 eP     44 11.00   0.4
        1.1s      5.94nm          4.5mb
                  pP    44 27.80  60km
F8A    83.12  20 ePd    44 14.79  -1.1
        0.6s      9.48nm          5.0mb
                  pP    44 31.00  57km
GBA    85.34 284 P      44 28.00   0.0
ABL    87.29  54 (P)    44 38.09   0.5
HVU    93.58  48 eP     45 07.54   0.9
YKA    95.62  28 eP     45 14.10  -1.2
        0.6s      0.90nm          4.4mb
MBC    96.38  14 eP     45 19.00   0.4
KAF   117.42 338 ePKP   50 28.20  -7.5X
NUR   119.04 337 ePKP   50 35.00  -3.8X
HFS   123.23 341 ePKP   50 45.90  -0.9
        0.5s      2.10nm
NB2   123.29 343 PKP    50 46.30  -0.7
        0.7s      1.00nm
CNCB  125.71 118 PKP    50 53.40  -0.3
LPB   125.72 118 (PKP)  50 52.00  -1.5
ZOBO  125.80 117 PKP    50 53.00  -0.9
SIV   132.01 121 ePKP   51 18.00  13.0X
     S.D. = 0.9  on  33 of  39 obs.
-------------------------------------
&  MAY  13, 1993  02h 45m 16.99s
    64.482 N          146.991 W
    DEPTH =   8.1km
    3.1mb (  1 obs.)
  CENTRAL ALASKA                  (  1)
       <AEIC>. ML 3.0 (AEIC), 2.9
       (PMR). Felt ot Solcho.

HDA     0.08 168 iPd    45 18.95  -0.3
CCB     0.39 296 iPc    45 24.45  -0.4
WRH     0.48 269 iPc    45 26.17  -0.4
GLM     0.54 342 iPc    45 27.26  -0.5
FBA     0.54 321 iPc    45 27.13  -0.8
MDM     0.72 313 iPc    45 30.57  -0.7
NEA     0.91 277 iPc    45 33.92  -0.6
                eS      45 48.39
MCK     1.14 229 eP     45 38.36  -0.1
                eS      45 55.16
THY     1.20 152 ePc    45 39.50  -0.1
                eS      45 56.69
PRP     1.21  30 ePd    45 39.36  -0.5
                eS      45 56.18
RND     1.36 218 ePc    45 42.18   0.0
                eS      46 00.46
PAX     1.66 155 eP     45 46.75   0.1
                eS      46 09.59
MLY     1.70 291 ePc    45 45.82  -1.3
TRF     1.79 236 ePc    45 47.85  -0.6
                eS      46 13.69
HUR     1.91 219 eP     45 51.79   1.6
                eS      46 17.46
SDG     2.07 161 eP     45 51.88  -0.5
TMW     2.11 122 eP     45 55.31   2.2
                S       46 22.92
FYU     2.22  19 eP     45 54.20  -0.3
                S       46 23.69
TZL     2.55 163 eP     46 03.70   4.5
SCM     2.66 183 eP     46 03.15   2.1
SML     2.75 193 eP     46 02.74   0.5
GHO     2.86 199 eP     46 03.97   0.2
KLU     3.04 170 eP     46 08.05   1.7
PMR     3.06 200 eP     46 07.73   1.3
                eS      46 48.90
PWA     3.13 206 P      46 10.30   2.8
IMA     3.23 303 ePn    46 07.46  -1.6
SKT     3.24 221 ePc    46 08.66  -0.5
GLB     3.38 153 eP     46 13.29   2.2
PMS     3.46 201 P      46 13.80   1.6
SUA     3.48 211 eP     46 13.27   0.7
CP2     4.03 219 eP     46 19.60  -0.8
CKN     4.04 218 eP     46 22.38   1.9
SPU     4.04 217 eP     46 20.76   0.2
BALM    4.06 146 ePn    46 20.66  -0.2
BGL     4.07 220 eP     46 21.30   0.4
SGAM    4.08 167 P      46 27.00   6.0
CROM    4.14 153 eP     46 23.03   1.0
```

13d 02h

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TGL      4.20 151 eP     46 23.69   0.8
SLKM     4.26 202 (Pn)   46 23.02  -0.6
TTA      4.30 253 ePn    46 23.02  -1.3
SVW      5.21 233 eP     46 37.00   0.0
INK      6.63  49 P      46 56.00  -0.9
        1.0s      2.00nm          4.1mb X
YKA     14.51  83 eP     48 51.40   7.2
        0.4s      0.20nm          3.1mb
        43 obs. associated
-------------------------------------
   MAY  13, 1993  03h 20m 37.41± 0.59s
   39.181 N ± 5.0km   27.894 E ± 7.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 3.1 (ISK).

IZM      0.92 212 iPg    20 54.30  -0.8
                  iSg    21 08.80
KCT      1.13  18 iPn    20 57.90  -0.6
EDC      1.16 359 iPn    21 00.00   0.8
BNT      1.17   1 iPn    20 58.90  -0.4
EZN      1.37 298 iPn    21 03.10   0.5
CIN      1.59 174 ePn    21 06.00   0.4
                  iSg    21 27.00
ALT      1.73  93 ePn    21 08.40   0.6
YLV      1.79  39 ePn    21 07.90  -0.8
GBZT     2.00  36 ePg    21 36.90  25.3X
CTT      2.01  12 ePn    21 11.90   0.2
      S.D. = 0.7  on   9 of  10 obs.
-------------------------------------
?  MAY  13, 1993  04h 08m 45.26± 1.34s
   32.933 S ±11.3km  178.727 W ±24.4km
   DEPTH =  33.0km  (normal)
   4.2mb (  2 obs.)
 SOUTH OF KERMADEC ISLANDS       (179)

HBZ      5.25 207 eP     10 04.00   0.5
PUZ      5.69 205 eP     10 09.50  -0.2
URZ      6.30 211 eP     10 17.90  -0.4
                  eS     11 31.50
OUZ      6.77 248 eP     10 29.20   4.4X
STK     33.38 261 eP     15 33.10  10.4X
        0.4s      4.60nm
ASPA    42.42 270 iPd    16 38.80   0.1
        1.4s      5.10nm          4.1mb
WB2     43.63 275 iPd    16 48.10  -0.3
        0.4s     11.50nm          5.0mb X
WRA     43.64 275 P      16 48.80   0.3
        0.6s      4.70nm          4.4mb
KAF    146.70 339 iPKP   28 21.20  -1.5
        0.7s      4.70nm
NUR    148.45 338 ePKP   28 27.00   1.5
NB2    151.14 350 PKP    28 33.20   3.5X
        0.8s      2.70nm
HFS    151.58 347 ePKP   28 33.90   3.6X
        0.4s      1.00nm
      S.D. = 1.0  on   8 of  12 obs.
-------------------------------------
?  MAY  13, 1993  04h 41m 04.41± 5.69s
   34.628 S ±48.9km   71.402 W ±18.8km
   DEPTH =  70.0km  (geophysicist)
 NEAR COAST OF CENTRAL CHILE     (135)
      MD 3.6 (SAN).

LNV      0.67 359 iP     41 19.50   0.4
                  iS     41 31.11
CHCH     0.93  42 iP     41 22.26  -0.1
                  iS     41 35.98
TACH     1.05  22 iP     41 23.62  -0.2
                  iS     41 37.87
LCCH     1.16 353 iP     41 24.82  -0.4
                  iS     41 40.31
PCH      1.25  36 iP     41 26.40  -0.1
                  iS     41 42.60
FCH      1.59  36 iP     41 31.37   0.0
                  iS     41 52.70
PEL      1.60  22 iP     41 31.38   0.2
                  iS     41 51.48
ROCH     1.68  11 iP     41 32.66   0.1
                  iS     41 54.02
JACH     2.06  19 iP     41 37.50   0.0
      S.D. = 0.3  on   9 of   9 obs.
-------------------------------------
   MAY  13, 1993  05h 00m 55.84± 0.56s
   40.791 N ± 5.0km   27.771 E ± 4.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.8 (ISK).

MFT      0.37 270 iPg    01 03.00  -0.5
BNT      0.45 165 iPg    01 04.80  -0.2
                  eSg    01 12.00
EDC      0.45 171 iPg    01 05.00   0.0
                  eSg    01 13.00
CTT      0.61  54 iPg    01 06.80  -1.4
                  eSg    01 14.80
KCT      0.70 140 iPn    01 08.80  -0.9
ISK      1.01  74 ePn    01 14.80  -0.2
DMK      1.03 359 iPn    01 15.70   0.4
YLV      1.24 100 ePn    01 18.80  -0.1
GBZT     1.27  90 ePg    01 21.00   1.6
HRT      1.44  88 ePn    01 22.30   0.3
EZN      1.47 229 iPn    01 23.10   0.8
EYL      1.83  96 ePn    01 28.00   0.3
      S.D. = 0.9  on  12 of  12 obs.
-------------------------------------
?  MAY  13, 1993  05h 18m 26.21± 6.05s
   34.934 S ±56.0km   71.147 W ±17.9km
   DEPTH = 100.0km  (geophysicist)
 NEAR COAST OF CENTRAL CHILE     (135)
      MD 3.6 (SAN).

LNV      1.00 347 iP     18 47.00   0.1
                  iS     19 02.57
CHCH     1.08  22 iP     18 47.67  -0.2
                  iS     19 03.85
TACH     1.29   8 iP     18 50.16  -0.1
                  iS     19 08.07
PCH      1.41  22 iP     18 52.07   0.2
                  iS     19 11.49
LCCH     1.50 346 iP     18 52.71  -0.1
                  iS     19 13.51
FCH      1.75  24 iP     18 56.39   0.0
                  iS     19 19.51
PEL      1.83  12 iP     18 57.23   0.1
                  iS     19 20.30
ROCH     1.96   3 iP     18 59.02   0.0
                  iS     19 24.27
JACH     2.29  12 iP     19 03.20  -0.1
                  iS     19 31.36
      S.D. = 0.2  on   9 of   9 obs.
-------------------------------------
   MAY  13, 1993  05h 27m 05.56± 0.43s
   44.792 N ± 2.7km    6.696 E ± 4.3km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                          (538)
      ML 2.5 (LDG), 2.5 (GEN).

RRL      0.14  26 P      27 09.44   0.3
                  S      27 12.27
BHB      0.41  83 P      27 14.24   0.3
                  S      27 21.66
PZZ      0.41 135 P      27 13.69  -0.3
                  S      27 20.42
RSP      0.54  48 P      27 16.90   0.5
                  S      27 24.95
LPG      0.71   3 Pg     27 19.50  -0.2
                  Sg     27 29.40
STV      0.71 140 P      27 18.77  -0.8
                  S      27 29.02
LPL      0.72   2 Pg     27 19.90  -0.1
                  Sg     27 30.10
LSD      0.74  26 P      27 20.01  -0.3
                  S      27 31.86
ENR      0.77 137 P      27 20.60   0.0
                  S      27 31.22
ROB      0.98 120 P      27 23.85  -0.3
                  S      27 37.86
SBF      1.07 150 Pn     27 26.10   0.4
                  Sg     27 41.90
FIN      1.23 118 P      27 28.46   0.0
                  S      27 45.13
IMI      1.23 135 P      27 27.74  -0.7
                  S      27 43.83
FRF      1.23 182 Pn     27 29.00   0.5
                  Pg     27 29.90
                  Sg     27 45.90
PCP      1.34 100 P      27 30.67   0.3
                  S      27 49.39
LMR      1.46 185 Pn     27 32.70   0.7
                  Sg     27 52.10
SMF      2.73 314 Pg     27 57.00   6.8X
                  Sg     28 30.40
BGF      3.22 305 Pn     27 56.80  -0.4
      S.D. = 0.5  on  17 of  18 obs.
-------------------------------------
&  MAY  13, 1993  07h 03m 03.00s
   40.350 N           76.020 W
   DEPTH =   5.0km  (geophysicist)
 PENNSYLVANIA                    (473)
      <MACRO>. Felt in the Reading
      area.

BWD      0.65 148 iPd    03 16.10   0.2
                  iS     03 24.60
NED      0.69 160 iPd    03 16.20  -0.6
                  iS     03 25.00
BVD      0.70 145 iPd    03 16.20  -0.8
                  S      03 25.00
      3 obs. associated
-------------------------------------
?  MAY  13, 1993  08h 19m 34.79± 0.87s
    8.154 S ±21.9km   79.228 W ±34.4km
   DEPTH =  33.0km  (normal)
   4.1mb (  3 obs.)
 NEAR COAST OF NORTHERN PERU     (109)

NNA      4.48 149 iPc    20 44.10   1.9
        0.6s     83.33nm
                  eS     21 35.20
ARE     11.19 138 eP     22 34.00  18.1X
ZOBO    13.52 128 P      22 51.20   3.9X
      Z  24s      0.13um
                  LR     27 44.00
LPB     13.69 129 eP     22 48.00  -1.4
CNCB    13.94 129 P      23 00.70   7.8X
SIV     19.38 115 P      24 16.40  15.4X
PPD     30.20 120 (P)    25 51.00   6.3X
RSSD    56.67 339 eP     29 17.30  -0.3
        1.2s      8.02nm          4.6mb
ULM     59.94 348 eP     29 41.50   1.5
JAQ     61.79   2 eP     29 51.50  -1.0
FCC     67.76 352 eP     30 34.50   3.4X
FRB     72.15   5 eP     30 58.00   0.2
YKA     75.52 344 eP     31 15.80  -1.6
        1.1s      0.70nm          3.6mb
INK     85.18 342 eP     32 10.50   1.9
MBC     87.46 351 eP     32 21.00   1.3
        1.0s      1.00nm          4.0mb
WB2    136.73 229 ePKP   38 55.00  -1.5
        0.4s      1.90nm
WRA    136.74 229 PKP    38 55.70  -0.9
        0.9s      1.00nm
      S.D. = 1.6  on  11 of  17 obs.
-------------------------------------
?  MAY  13, 1993  08h 26m 00.68± 1.15s
   39.095 N ± 8 5km   27.650 E ±13.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.8 (ISK).

IZM      0.76 204 iPg    26 15.50  -0.1
                  iSg    26 28.00
EZN      1.26 306 iPn    26 24.20   0.2
KCT      1.27  25 iPn    26 24.80   0.5
BNT      1.28   9 ePn    26 23.80  -0.6
      S.D. = 0.7  on   4 of   4 obs.
-------------------------------------
   MAY  13, 1993  10h 24m 40.40± 0.09s
   61.988 N ± 1.4km  147.033 W ± 1.4km
   DEPTH =  59.2km  ( 36 depth phases)
   5.3mb ( 92 obs.)
 SOUTHERN ALASKA                 (  2)
      Mw 5.2 (HRV). ML 4.9 (AEIC), 4.9
      (PMR). Felt (IV) at Chugiak,
      Capper Center, Cordava, Eagle
      River, Gakona, Glennallen,
      Palmer, Sheep Mountain, Sutton,
      Talkeetna, Valdez, Wasillo and
      Willow. Felt (III) at Ancharage.
      CENTROID, MOMENT TENSOR    (HRV)
      Data Used: GDSN
      L.P.B.: 27S, 42C
      Centroid Location:
      Origin Time        10:24:45.5 0.3
      Lat 61.69N 0.06 Lon 147.25W 0.09
      Dep  69.4 3.3 Half-duration  1.0
      Moment Tensor;   Scale 10**16 Nm
        Mrr=-4.73 0.35  Mtt= 2.40 0.55
        Mff= 2.33 0.41  Mrt= 0.83 0.41
        Mrf= 0.45 0.49  Mtf= 4.70 0.50
```

13d 10h

Principal Axes:

	Val=	Plg=	Azm=
T	7.14	4	315
N	-2.30	6	46
P	-4.83	82	190

Best Double Couple:Mo=6.0*10**16
NP1:Strike= 39 Dip=41 Slip= -99
NP2: 231 50 -82

| | | |

13d 10h

			epP	33	35.33	58km	LDF		66.63	23	iPd	35	25.30	-0.9	SOTA	69.75	16	iPd	35	45.90	0.2
			iPcP	34	44.02				1.1s	26.60nm			5.1mb			1.2s	105.00nm			5.6mb	
GOGA	48.78	95	eP	33	20.57	-0.3	WLF		66.66	19	iPc	35	26.74	0.5				ipP	36	02.40	60km
	1.1s	27.12nm			5.2mb						id	35	42.73		WTTA	69.76	15	iPc	35	45.80	0.0
JSC	49.11	93	iPd	33	22.51	-0.9	GRR		66.69	24	iPd	35	26.00	-0.5		1.1s	150.00nm			5.8mb	
CIT	49.81	307	eP	33	29.00	0.3			1.1s	37.60nm			5.3mb					ipP	36	02.60	61km
SGS	50.35	93	eP	33	31.76	-1.2	KSP		66.74	11	iPd	35	26.60	-0.2	PLDF	69.84	21	P	35	46.21	0.0
			epP	33	47.31	60km			1.2s	56.00nm			5.4mb		SRO	69.92	10	eP	35	46.90	0.4
NIIJ	50.56	277	eP	33	33.80	-0.7					i	35	43.20					e	36	03.50	
HBF	50.63	93	eP	33	35.88	0.8	HOF		66.79	15	iPd	35	26.90	-0.3	PYM	69.94	22	P	35	46.21	-0.6
SDF	50.80	3	iP	33	35.40	-0.5	LZH		66.94	304	iPd	35	27.50	-1.0	OGA	70.07	16	iPd	35	48.40	0.6
			i	35	48.90				1.2s	71.00nm			5.5mb			1.2s	49.00nm			5.3mb	
MAT	51.50	277	iPd	33	40.70	-1.0					pP	35	43.50	58km	RJF	70.10	23	iPd	35	47.00	-0.7
	0.5s	20.42nm			5.4mb		LPF		67.00	24	iPd	35	28.20	-0.3		1.1s	25.15nm			5.1mb	
CHJJ	51.53	276	eP	33	41.50	-0.4			1.0s	30.80nm			5.3mb			Z 25s	0.13um			4.1MszX	
IRK	52.94	313	eP	33	51.80	-0.5	GRF		67.32	15	iPd	35	30.90	0.3	KBA	70.15	14	iPd	35	48.60	0.4
	1.6s	29.00nm			5.1mb				1.6s	90.00nm			5.5mb			1.1s	150.00nm			5.8mb	
			e	34	07.60			Z	29s	0.10um			3.9MszX					ipP	36	05.20	61km
MOY	54.56	315	eP	34	05.00	0.9					e(pP)c	35	46.60	57km	FRU	70.27	329	ePd	35	48.00	-0.8
ZAK	54.87	313	eP	34	06.00	-0.4					e	36	02.00					e	36	04.50	
	1.4s	14.00nm			4.8mb		PRU		67.41	13	Pd	35	30.80	-0.3	BUD	70.31	10	e(P)	35	48.00	-0.9
	Z 14s	0.29um			4.5MszX				1.2s	47.70nm			5.4mb		LFF	70.31	24	iPd	35	48.80	-0.2
	E 17s	0.20um									e	35	47.00			0.6s	37.90nm			5.5mb	
			e	34	21.00		LANF		67.57	18	P	35	31.63	-0.5	LBL	70.49	22	P	35	50.17	0.0
			eS	41	43.00		OJC		67.65	9	iP	35	32.50	-0.1	FVI	70.56	15	P	35	50.00	-0.4
KAF	56.12	4	eP	34	14.10	-1.1					i	35	48.90		CAF	70.57	23	iPd	35	50.20	-0.4
	0.4s	3.00nm			4.7mb		VITF		68.04	19	P	35	34.78	-0.3		1.1s	35.40nm			5.2mb	
NB2	56.18	13	P	34	13.80	-2.0	CDF		68.04	18	P	35	34.94	-0.2	RSL	70.60	19	P	35	51.04	0.1
	0.9s	26 20nm			5.3mb		WLS		68.05	18	P	35	34.94	-0.2	LPO	70.64	23	iPd	35	50.70	-0.3
HFS	57.31	11	eP	34	21.00	-2.7	WET		68.06	14	iPd	35	35.50	0.3		1.2s	82.70nm			5.5mb	
	0.5s	23.70nm			5.5mb				1.4s	122.00nm			5.7mb		SSB	70.66	21	P	35	51.02	-0.2
	Z 18s	0.05um			3.6Msz		KHC		68.15	14	iPd	35	36.30	0.5	VAI	70.75	18	P	35	51.60	0.0
			LR	54	14.00				1.0s	28.50nm			5.2mb		LPL	70.79	19	iPd	35	52.70	0.5
ELT	57.65	325	iPd	34	24.50	-1.7					e	35	42.50			0.9s	25.05nm			5.1mb	
	0.7s	24 00nm			5.4mb						e	35	52.50		RBL	70.80	14	P	35	51.40	-0.6
			e	36	36.00						e	36	03.00		LPG	70.81	19	iPd	35	52.90	0.5
			eS	42	16.00		ECH		68.22	18	P	35	35.87	-0.3		1.0s	29.00nm			5.2mb	
NUR	57.66	5	iP	34	24.70	-1.5	HAU		68.30	19	iPd	35	36.40	-0.3	LSD	70.91	19	P	35	53.69	0.8
	0.4s	14 60nm			5.4mb				1.0s	30.00nm			5.2mb		CTI	70.96	16	P	35	52.30	-0.7
			i	34	40.50			Z	29s	0.25um			4.3MszX		RSP	71.22	19	P	35	55.15	0.5
UPP	57.91	9	iP	34	26.50	-1.4	LIBD		68.35	18	P	35	36.57	-0.3	VOY	71.24	14	ePd	35	53.70	-1.0
			i	34	42.70		GEC2		68.45	14	e(P)	35	37.70	0.0				epP	36	09.40	56km
BJI	58.53	297	eP	34	23.00	-9.5X			0.7s	12.20nm			5.0mb		LJU	71.30	13	eP	35	54.50	-0.5
			e	34	47.00		BSF		68.54	19	iPd	35	37.80	-0.5				epP	36	10.50	58km
EKA	59.63	23	Pd	34	41.20	1.2			1.0s	31.60nm			5.2mb		RRL	71.38	19	P	35	56.71	1.0
	0.7s	19.80nm			5.4mb		MFF		68.54	24	iPd	35	37.90	-0.2	BHB	71.53	19	P	35	56.21	-0.1
DMU	60.25	26	eP	34	59.60	15.4X			1.0s	28.40nm			5.2mb		TRI	71.55	14	eP	35	55.40	-1.0
MUD	60.43	15	ePc	34	45.00	-0.4	MOF		68.57	18	P	35	38.08	-0.4				e	36	12.00	
	1.2s	15.00nm			5.0mb		LOR		68.62	21	iPd	35	38.20	-0.4	CEY	71.59	14	eP	35	55.50	-1.2
DLF	60.90	26	eP	35	04.20	15.6X			1.1s	43.00nm			5.3mb					epP	36	11.50	58km
ETA	61.53	26	eP	34	52.30	-0.6		Z	27s	0.15um			4.1MszX		PTJ	71.60	12	eP	35	55.70	-1.1
COP	61.57	13	iPd	34	52.70	-0.4	FEL		68.67	18	P	35	38.35	-0.8	ZAG	71.68	12	eP	35	56.20	-1.0
	0.9s	67.23nm			5.8mb		SPC		68.71	9	eP	35	40.30	0.9	PZZ	71.83	19	P	35	58.77	0.5
			ipP	35	08.00	56km	SSF		68.76	21	iPd	35	39.10	-0.4	VBY	71.92	13	eP	35	58.20	-0.4
ECB	61.72	26	eP	34	53.40	-0.8			1.2s	76.75nm			5.5mb		BOB	71.92	17	P	35	58.60	-0.2
ECB	61.72	26	eP	35	09.30	15.1X	FUR		68.83	15	iPd	35	40.20	0.3	RIY	71.98	14	iPd	35	58.10	-0.9
ECP	61.98	26	eP	34	55 30	-0.6			0.8s	70.00nm			5.7mb		PCP	72.01	18	P	35	58.86	-0.4
ECP	61.98	26	eP	35	11.10	15.2X					i	35	56.60		EPF	72.07	25	iPd	35	58.80	-0.9
MOS	62.56	357	eP	35	05.00	5.4X	LBF		68.91	21	iPd	35	39.80	-0.7		0.7s	7.60nm			4.7mb	
			e	35	18.00				1.0s	22.80nm			5.1mb		CKI	72.09	18	P	35	59.30	-0.4
			e	35	24.00		AVF		69.00	21	iPd	35	40.40	-0.5	STV	72.12	19	P	35	59.00	-1.0
			e	35	44.00				1.1s	32.50nm			5.2mb		ENR	72.15	19	P	35	59.18	-1.0
OBN	63.22	358	iPc	35	03.40	-0.6	BBS		69.00	18	P	35	40.65	-0.4	ROB	72.15	19	P	35	59.64	-0.5
	1.2s	75.00nm			5.6mb		LOMF		69.01	19	P	35	40.91	-0.2	FIN	72.29	18	P	36	00.00	-0.9
			ipP	35	20.90	66km	BGF		69.13	22	iPd	35	41.20	-0.6	TOUF	72.33	19	P	36	01.61	0.2
			esP	35	27.10				0.8s	21.65nm			5.1mb		VRI	72.38	5	ePd	36	01.00	-0.3
			(S)	43	22.00		LSF		69.19	23	iPd	35	41.60	-0.6	AUTN	72.38	19	P	36	01.85	0.2
MNK	64.38	4	eP	35	08.00	-3.6X			1.1s	61.80nm			5.4mb		CVO	72.40	5	ePd	36	02.50	1.0
WTS	64.48	18	eP	35	12.00	-0.3	SMF		69.22	21	iPd	35	41.70	-0.6	SAOF	72.41	19	P	36	01.61	0.0
			e	35	27.00				1.4s	69.25nm			5.4mb		CDR	72.43	20	ePc	36	01.90	0.2
			e	35	44.00		TCF		69.28	22	iPd	35	42.10	-0.6				e(pP)	36	18.00	58km
ENN	65.55	18	eP	35	18.50	-0.7			1.2s	40.45nm			5.2mb		GRBF	72.49	24	P	36	01.57	-0.6
	1.1s	26.30nm			5.1mb		UZH		69.40	8	iPc	35	43.70	0.4	SBF	72.51	19	P	36	01.98	-0.3
			e	35	34.50				1.2s	60.00nm			5.4mb		CALN	72.53	20	P	36	02.59	0.1
			e	35	51.00						i	35	59.60		IMI	72.53	19	P	36	01.97	-0.4
CLL	65.94	14	iPd	35	20.90	-0.8					i	36	05.20		MTHF	72.58	23	P	36	02.66	0.0
	1.5s	56.00nm			5.3mb		MAF		69.41	22	iPd	35	42.90	-0.6	REVF	72.62	19	P	36	02.82	0.0
			epP	35	37.00	59km			1.1s	16.10nm			4.9mb		FRF	72.68	20	iPd	36	03.10	-0.1
FLN	66.40	23	iPd	35	23.80	-0.9	BHG		69.46	14	iPd	35	43.90	0.1		1.0s	56.60nm			5.5mb	
	1.3s	47.30nm			5.3mb				1.4s	100.00nm			5.6mb		MLR	72.72	5	eP	36	04.50	1.0
	Z 24s	0.20um			4.2MszX						i	36	01.00		LRG	72.74	20	iPd	36	03.80	0.3
MOX	66.43	15	iPd	35	24.80	-0.1	MOTA		69.62	16	iPd	35	44.70	-0.2		0.7s	31.30nm			5.4mb	
	1.4s	72.00nm			5.5mb				1.4s	87.10nm			5.5mb			Z 28s	0.10um			3.9MszX	
			i	35	41.10						ipP	36	01.20	60km	BDI	72.77	17	P	36	03.20	-0.6
BRG	66.47	13	iPd	35	24.30	-0.8	AGO		69.67	22	P	35	45.08	0.0	LMR	72.88	20	iPd	36	04.50	0.2
	1.3s	56.00nm			5.4mb		WATA		69.68	15	iPd	35	45.30	0.0		1.1s	68.35nm			5.5mb	
			i	35	40.70						ipP	36	01.90	61km	MTUR	72.95	6	eP	36	05.00	0.2

SFI	73.08	16	P	36	06.40	1.0	WIN	139.12	23	e(PKP)	44	02.50	0.6				eSg	47	05.10				
PGD	73.11	16	P	36	06.70	0.9	SLR	143.62	7	ePKP	44	03.50	-6.2X	IMI	1.83	236	P	46	41.85	-0.1			
FIR	73.14	16	eP	36	07.00	1.2		1.3s		50.00nm							S	47	03.42				
ARV	73.63	15	P	36	09.00	0.3				i	44	23.00		BHB	1.93	267	P	46	42.91	-0.4			
ASS	74.02	15	P	36	11.00	0.0	BFT	143.65	4	ePKP	44	05.00	-4.9X	RSP	1.94	276	P	46	42.83	-0.6			
PYA	74.02	352	iP	36	10.00	-0.9		0.6s		9.00nm				CRE	1.95	133	P	46	44.30	0.7			
PGF	74.03	18	P	36	10.88	-0.3				i	44	22.00					eSg	47	09.50				
KIV	74.12	353	eP	36	11.80	0.2	KSR	143.65	9	ePKP	44	23.00	13.2X	ENR	1.97	249	P	46	43.36	-0.6			
	1.2s		85.00nm			5.6mb		1.0s		26.00nm				STV	2.03	250	P	46	45.19	0.4			
Z	18s		0.09um			4.1Msz	PRY	144.75	9	iPKPc	44	09.20	-2.4X	OGA	2.04	21	ePn	46	46.20	1.3			
			e	39	03.40			1.0s		120.00nm				LSD	2.06	285	P	46	45.98	0.7			
			e	45	27.50					i	44	27.20		PZZ	2.10	258	P	46	45.24	-0.6			
PLE	74.46	10	iPc	36	14.47	0.8	SEK	146.15	8	iPKPc	44	13.60	-0.4	SBF	2.13	240	Pn	46	46.40	0.2			
MNS	74.70	15	P	36	14.70	-0.2		0.9s		50.00nm				RRL	2.27	270	P	46	49.73	1.3			
BRY	74.82	11	iPc	36	15.23	-0.5				i	44	30.10		LPG	2.34	284	Pn	46	49.50	0.0			
NKY	74.94	11	iPc	36	16.06	-0.4	POF	146.28	21	iPKPd	44	15.50	1.6X	LPL	2.36	285	Pn	46	49.90	0.3			
IVA	74.96	10	iPc	36	17.17	0.7		1.2s		60.00nm				SCE	2.40	30	ePn	46	54.50	4.4X			
PVY	75.24	10	iPc	36	19.88	1.7	BLF	146.81	11	ePKP	44	12.50	-2.5X	SOTA	2.41	20	iPnc	46	52.50	2.3			
HCY	75.26	11	iPc	36	16.14	-2.0		1.3s		120.00nm							i	47	23.20				
TTG	75.35	10	iPc	36	18.26	-0.3				i	44	33.60		MOTA	2.50	18	iPnc	46	53.10	1.5			
TOV	75.43	97	ePd	36	20.00	0.5	FRS	147.37	12	ePKP	44	18.10	2.5X	PGF	2.52	197	Pn	46	50.70	-1.1			
BDV	75.45	11	iPc	36	18.41	-0.8		1.1s		120.00nm				FVI	2.55	49	P	46	52.10	0.1			
SDI	75.50	15	P	36	19.30	-0.3				i	44	34.20		WTTA	2.57	26	iPnd	46	54.10	1.5			
ULC	75.81	11	iPc	36	21.46	0.2	SUR	149.36	20	ePKP	44	22.00	3.0X				i	47	27.00				
SDV	75.82	98	eP	36	21.60	-0.3		1.0s		80.00nm				ARV	2.59	124	P	46	52.30	-0.4			
SKO	75.97	9	iPKPd	36	22.00	-0.1				i	44	52.00		ASS	2.71	134	P	46	54.00	-0.5			
	1.3s		60.00nm			5.4mb	CER	150.05	23	iPKPd	44	24.00	4.2X	FRF	2.78	241	Pn	46	55.80	0.4			
			i	36	38.80			1.6s	1440	.00nm				RBL	2.91	58	P	46	57.50	0.1			
VAY	76.70	8	iPKP	36	26.40	0 2				i	44	42.50		VOY	2.95	67	ePn	46	56.30	-1.6			
			i	36	43.40		GRM	151.02	11	ePKP	44	26.50	5.3X				e	47	22.80				
TPT	76.72	181	eP	36	24.40	-2.0		0.8s		61.00nm							e(Sn)	47	31.00				
	1.5s	198	.50nm			5.9mb				i	44	33.50					e(Sg)	47	45.80				
PMO	76.74	181	eP	36	24.70	-1.8	SPA	151.83	180	iPKPd	44	27.70	6.2X	KBA	3.15	47	iPnc	47	01.40	0.6			
	1.6s	159	.20nm			5.7mb		0.4s		110.53nm							i	47	11.60				
OHR	76.78	9	iPKP	36	26.70	0.0		S.D. = 0.9		on 336 of 373 obs.							i	47	51.30				
	1.1s	58	.00nm			5.5mb	----------							CEY	3.23	75	eP	47	00.50	-1.3			
			i	36	40.70		& MAY 13, 1993 10h 31m 48.64s										eSn	47	37.50				
SGO	76.81	14	P	36	42.70	15.9X	35.971 N				117.749 W			BSF	3.62	324	Pn	47	06.10	-1.2			
KNT	76.88	8	iP	36	27.42	0.2	DEPTH = 3.5km										Sn	47	47.00				
RUV	76.92	180	eP	36	25.50	-2.0	CENTRAL CALIFORNIA						(39)	VBY	3.77	80	ePn	47	07.50	-1.9			
	1.4s	235	.30nm			6.0mb	<PAS-P>. ML 2.9 (PAS).										eSn	47	51.00				
VAH	76.97	181	eP	36	25.80	-2.0								CDF	3.92	333	Pn	47	09.80	-1.8			
	1.0s	86	.80nm			5.7mb	TPNV	1.55	51	eP	32	16.90	-0.4				Sn	47	53.30				
KMI	77.04	299	Pd	36	28.00	-0.6				eS	32	35.20		HAU	3.94	322	Pn	47	10.80	-1.1			
	1.5s	50	.00nm			5.3mb	ABL	1.64	228	eP	32	18.83	0.2				Sn	47	56.20				
			sP	36	44.50		MEMM	1.94	331	ePn	32	23.28	0.5	PTJ	4.31	75	eP	47	36.30	19.1X			
GRG	77.05	8	eP	36	28.52	0.3	BONR	2.03	348	ePn	32	24.55	0.2	SMF	4.61	294	Pn	47	20.60	-0.8			
FNA	77.15	9	iP	36	28.21	-0.6	BCH	2.06	248	eP	32	25.09	0.5				Sn	48	13.40				
SOH	77.25	7	eP	36	29.57	0.3				eS	32	51.98		GEC2	4.64	32	Pn	47	19.90	-2.0			
KVT	77.25	358	eP	36	30.00	0.7	PEC	2.13	167	ePn	32	25.96	0.4				Sn	48	11.90				
MGR	77.25	14	P	36	45.30	16.0X				ePg	32	28.46		LBF	4.65	298	Pn	47	21.40	-0.5			
ALN	77.31	5	eP	36	29.68	0.1	PHAM	2.16	267	eP	32	25.63	-0.3				Sn	48	12.80				
TDS	77.81	13	P	36	48.70	16.4X	PLM	2.71	164	ePn	32	34.27	0.2	KHC	4.84	29	ePn	47	24.40	-0.2			
LIT	77.91	8	eP	36	32.28	-0.6	CMB	2.95	315	(Pn)	32	38.27	1.0				ePg	47	43.50				
GRS	78.28	349	iPc	36	36.80	1.6				eS	33	19.22					Sn	48	16.00				
	1 2s	50	.00nm			5.4mb		9 obs. associated									eSg	48	47.50				
ASH	78.31	340	eP	36	35.50	0.4	----------							LOR	4.84	301	Pn	47	23.60	-1.1			
AGG	78.97	8	eP	36	54.98	16.2X	MAY 13, 1993 10h 46m 10.05± 0.26s										Sn	48	17.70				
PGP	79.14	278	ePc	36	55.00	15.0X	44.968 N ± 3.0km 9.980 E ± 2.5km							AVF	4.97	294	Pn	47	25.50	-1.0			
PPN	79.27	182	eP	36	38.50	-1.9	DEPTH = 10.0km (geophysicist)							S.D. = 1.0 on 49 of 51 obs.									
	1.1s	121	.10nm			5.7mb	NORTHERN ITALY						(545)	----------									
AFR	79.29	183	eP	36	38.70	-1.8	ML 2.9 (LDG).							? MAY 13, 1993 11h 12m 22.83± 5.92s									
AVE	79.60	33	eP	36	34.00	-8.2X								11.119 N ±77.5km 88.190 W ±26.7km									
			i	36	43.50		BOB	0.43	242	P	46	18.90	0.1	DEPTH = 33.0km (normal)									
			i	37	01.00		SAL	0.75	31	P	46	26.30	1.7	4.4mb (5 obs.)									
MAIO	79.73	338	eP	36	43.00	0.0				eSg	46	36.60		OFF COAST OF CENTRAL AMERICA (76)									
IFR	79.98	32	iP	36	45.50	1.1	BDI	1.01	154	P	46	29.80	0.6										
			i	37	11.00					eSg	46	42.40		LTX	23.17	324	ePc	17	26.84	-0.8			
CIN	80.68	4	eP	36	47.00	-0.8	PCP	1.11	248	P	46	31.87	1.0	PRM	23.47	12	ePc	17	31.29	0.9			
GUN	80.88	314	P	36	49.60	0.1				S	46	49.73		UYO	23.65	347	iPd	17	31.20	-0.9			
KKN	81.19	315	P	36	50.80	-0.2	VAI	1.24	317	P	46	33.60	0.6	MIAR	23.83	349	ePc	17	33.06	-0.8			
GKN	81.21	315	P	36	51.20	0.2				eSg	46	54.40			0.7s		8.53nm			4.4mb			
PKI	81.35	315	P	36	51.80	-0.2	PII	1.31	162	P	46	34.10	-0.1	JSC	23.91	14	eP	17	35.83	1.2			
DMN	81.42	315	P	36	52.40	0.2				eSg	46	52.30		MEO	25.39	340	iPc	17	47.90	-1.0			
TIO	81.89	34	iP	36	47.50	-7.0X	CKI	1.33	246	P	46	35.20	0.6	FNO	25.45	342	iPc	17	48.50	-0.9			
			i	36	55.00					eSg	46	43.10		ALQ	28.96	328	eP	18	23.50	1.8			
			i	37	14.00		FIN	1.48	240	P	46	37.05	0.3		1.0s		2.38nm			3.8mb			
NDI	82.89	322	eP	37	07.50	8.0X				S	46	55.64		GOL	32.29	335	eP	18	54.90	3.7X			
CSS	83.39	360	eP	37	18.00	16.0X	FIR	1.50	142	ePg	46	36.00	-1.0		1.0s		7.00nm			4.5mb			
OUE	84.14	331	eP	37	22.30	16.2X				iSg	47	00.00					pP	19	02.80	27kmX			
LOE	84.33	297	eP	37	22.00	15.0X	ORO	1.56	296	P	46	39.30	1.4	RSSD	35.62	340	eP	19	20.00	0.2			
HRI	85.05	358	eP	37	10.70	0.2	CTI	1.60	47	P	46	38.00	-0.5	ULM	39.53	352	ePc	19	53.10	0.9			
HMDT	86.06	358	eP	37	15.40	0.0				eSg	46	59.50		MCMT	39.70	332	eP	19	55.70	1.6			
KHT	87.99	298	eP	37	25.00	0.0	ROB	1.65	247	P	46	39.33	0.1	JAO	43.72	11	eP	20	25.00	-1.5			
MBH	88.56	358	eP	37	27.60	0.0				S	47	00.58		FCC	47.75	356	eP	21	00.50	2.1			
GBA	96.98	317	P	38	22.00	15.5X	PGD	1.66	131	P	46	40.60	1.1	FRB	54.36	11	eP	21	47.00	-1.3			
KOD	100.13	316	ePdiff	38	37.50	16.4X	SFI	1.70	127	P	46	41.20	1.3		0.6s		3.00nm			4.5mb			

13d 11h

YKA 54.70 345 eP 21 49.20 -1.7
0.9s 2.80nm 4.3mb
S.D. = 1.4 on 15 of 16 obs.

% MAY 13, 1993 11h 29m 16.07± 0.75s
38.101 S ± 7.9km 176.204 E ±14.8km
DEPTH = 170.0km (geophysicist)
NORTH ISLAND, NEW ZEALAND (159)

WLZ	0.53	295	P	29 40.90	0.8
			eS	30 00.30	
URZ	0.73	103	P	29 40.40	-0.7
			S	29 58.30	
WHH	0.81	164	P	29 42.80	1.0
MOZ	1.17	249	P	29 46.20	1.7
KUZ	1.41	344	P	29 45.20	-1.4
WAHZ	1.60	176	P	29 49.80	1.2
TEHZ	1.94	166	P	29 53.20	1.0
MNG	2.58	192	P	29 59.90	0.4
			S	30 32.50	
KIW	2.93	200	P	30 04.00	0.1
MTW	3.10	190	P	30 05.40	-0.6
CAW	3.13	196	P	30 06.00	-0.4
BLW	3.31	190	eP	30 08.00	-0.6
			eS	30 48.20	
MRW	3.33	200	eP	30 08.10	-0.8
			eS	30 48.70	
MOW	3.40	192	P	30 08.90	-0.8
TCW	3.45	205	eP	30 09.50	-0.8

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

? MAY 13, 1993 11h 39m 11.23±10.79s
41.787 N ±64.0km 22.271 E ±36.6km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 1.9 (SKO).

VAY	0.52	154	iPg	39 21.70	0.0
			iSg	39 27.50	
KNT	0.78	143	ePg	39 26.34	-0.1
			eSg	39 35.54	
GRG	0.84	173	ePg	39 27.38	0.0
SOH	1.26	139	ePg	39 34.82	0.1
			eSg	39 51.66	

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

? MAY 13, 1993 11h 40m 10.43± 0.97s
26.424 S ± 7.1km 27.340 E ±12.2km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)

PRY	0.52	167	eP	40 20.00	-0.8
			S	40 26.00	
KSR	0.68	324	eP	40 24.00	-0.1
			S	40 35.50	
SLR	1.09	51	eP	40 31.50	0.0
			S	40 43.50	
SEK	1.91	172	eP	40 45.00	0.9
			S	41 09.00	

S.D. = 1.2 on 4 of 4 obs.

& MAY 13, 1993 11h 59m 49.25s
55.177 N 160.458 W
DEPTH = 32.3km (geophysicist)
6.4mb (165 obs.) 6.8Msz (45 obs.)
ALASKA PENINSULA (12)
Mw 6.9 (GS), 6.9 (HRV). <SPEC>.
Ms 6.8 (BRK). Mo=6.5•10••19 Nm
(OBN), 2.9•10••19 Nm (PPT).
Items knocked from shelves at
Sand Point and King Cove. Felt
(VI) at Sand Point; (V) at
Chignik, Chignik Lagoon, False
Pass, King Cove, Nelson Lagoon
and Perryville; (IV) at Cold Bay
and Port Heiden; (III) at Akhiok
and Akutan; (II) at Kodiok.
Depth 33.4 kilometers from
broadband displacement
seismograms.
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 57 Dip=73 Slip= 90
NP2: 237 17 90
Principal Axes:
T Plg=62 Azm=327
P 28 147
Comment: The focal mechanism is
poorly controlled and
corresponds to reverse
faulting. The preferred fault
plane is NP2.
RADIATED ENERGY
No. of sto: 33 Focal mech. M
Energy 8.6±1.1•10••13 Nm
MOMENT TENSOR SOLUTION
Dep 29 No. of sto: 42
Moment Tensor; Scale 10••19 Nm
Mrr= 1.48 Mtt=-0.99
Mff=-0.50 Mrt= 1.56
Mrf= 0.81 Mtf=-0.70
Principal axes:
T Val= 2.31 Plg=65 Azm=338
N -0.02 4 239
P -2.29 25 148
Best Double Couple:Mo=2.3•10••19
NP1:Strike=229 Dip=20 Slip= 79
NP2: 61 70 94
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 48S, ••C M.W.: 45S, ••C
Centroid Locotion:
Origin Time 11:59:56.5 0.1
Lat 54.70N 0.01 Lan 159.95W 0.01
Dep 40.7 BDY Half-duration 6.8
Moment Tensor; Scale 10••19 Nm
Mrr= 1.64 0.01 Mtt=-1.29 0.01
Mff=-0.35 0.01 Mrt= 1.57 0.02
Mrf= 0.91 0.02 Mtf=-0.71 0.00
Principal Axes:
T Val= 2.44 Plg=66 Azm=329
N 0.03 1 61
P -2.47 24 151
Best Double Couple:Mo=2.5•10••19
NP1:Strike=243 Dip=21 Slip= 93
NP2: 60 69 89

SDN	0.17	352	P	00 00.00	4.6
KDC	5.11	56	P	01 04.10	-1.5
MCNL	5.22	37	eP	01 08.20	1.1
CDD	5.29	42	eP	01 08.69	0.6
SYI	5.60	49	eP	01 11.97	-0.4
AUI	5.65	40	eP	01 14.29	1.2
AUW	5.66	39	eP	01 14.60	1.4
AUH	5.66	39	eP	01 14.75	1.4
AUL	5.68	39	eP	01 14.93	1.4
AUE	5.69	40	eP	01 14.98	1.4
PDB	5.72	34	eP	01 15.36	1.2
OPT	5.95	38	eP	01 18.24	0.9
INW	6.28	36	eP	01 22.63	0.4
INE	6.30	36	eP	01 22.94	0.4
XLV	6.38	44	eP	01 26.50	3.0
SVW	6.47	21	P	01 25.70	0.9
CNPM	6.62	45	eP	01 25.67	-1.2
RDW	6.70	34	eP	01 28.63	0.5
NCT	6.73	34	eP	01 28.64	0.3
RDN	6.74	34	eP	01 30.93	2.3
DFR	6.83	34	eP	01 29.41	-0.3
BRLK	6.91	44	eP	01 29.58	-1.3
			eS	02 48.98	
CKL	7.40	32	eP	01 37.96	0.1
NKA	7.42	38	eP	01 41.03	3.0
BGL	7.44	32	eP	01 38.92	0.6
CKT	7.45	32	eP	01 38.62	0.2
CKN	7.47	32	eP	01 39.27	0.5
SPU	7.48	33	eP	01 38.64	-0.2
CP2	7.48	32	eP	01 39.12	0.1
CPAM	7.51	32	eP	01 39.57	0.3
CRP	7.51	32	eP	01 39.09	-0.3
SLKM	7.64	41	eP	01 39.82	-1.2
SEW	7.69	46	eP	01 39.19	-2.6
			eS	03 06.18	
MPA	7.96	43	eP	01 43.52	-2.0
TTA	8.11	15	P	01 48.20	0.6
SUA	8.11	35	eP	01 46.50	-1.2
SKT	8.26	31	eP	01 49.88	0.2
			eS	03 22.47	
PTE	8.32	42	eP	01 48.49	-2.0
			eS	03 21.46	
PMS	8.36	39	P	01 49.00	-2.2
PWA	8.53	36	P	01 52.70	-0.7
MID	8.74	55	P	01 54.00	-2.3
PLRM	8.75	38	eP	01 53.73	-2.7
PMR	8.75	38	eP	01 53.60	-2.8
	Z	20s	235.00um		
GHO	8.95	38	eP	01 57.02	-2.2
HIN	9.10	49	eP	01 58.10	-3.2
			eS	03 40.20	
SML	9.18	39	eP	01 59.25	-3.2
CVA	9.50	50	eP	02 03.24	-3.5
			eS	03 51.10	
VLZ	9.55	46	eP	02 04.58	-2.8
			eS	03 53.05	
SCM	9.56	40	eP	02 04.78	-3.0
HUR	9.59	31	eP	02 07.85	-0.2
SGAM	9.71	50	eP	02 06.44	-3.3
TRF	9.78	28	eP	02 09.70	-1.1
KAIM	9.84	55	eP	02 08.77	-2.7
RAGM	9.90	52	eP	02 09.20	-3.2
KLU	9.91	44	eP	02 09.72	-2.8
RND	10.15	31	eP	02 13.37	-2.4
ADK	10.21	258	P	02 14.30	-2.2
MCK	10.37	30	eP	02 17.82	-1.0
TZL	10.41	43	eP	02 18.06	-1.3
SDG	10.65	40	eP	02 19.77	-2.8
SNH	10.67	55	eP	02 20.21	-2.6
CROM	10.75	52	eP	02 21.27	-2.8
GLB	10.75	48	eP	02 20.97	-3.1
CYK	10.80	56	eP	02 22.51	-2.1
TGL	10.89	52	eP	02 21.65	-4.2
PAX	10.95	38	eP	02 23.80	-3.0
MLY	10.99	22	eP	02 26.59	-0.7
NEA	11.00	27	eP	02 25.41	-2.0
THY	11.14	36	eP	02 28.37	-0.9
WRH	11.18	29	eP	02 26.36	-3.4
BALM	11.21	51	eP	02 27.67	-2.7
YAH	11.24	55	eP	02 28.10	-2.7
CCB	11.40	29	eP	02 28.98	-3.7
IMA	11.41	14	P	02 33.50	0.5
HDA	11.45	31	eP	02 29.91	-3.6
MDM	11.53	27	eP	02 32.03	-2.5
COL	11.60	28	iPd	02 31.40	-4.0
	0.8s		617.47nm		6.8mb X
FBA	11.60	28	P	02 31.20	-4.2
CTGM	11.64	52	eP	02 33.70	-2.5
GLM	11.77	28	eP	02 33.66	-4.2
YKU	12.00	60	eP	02 42.20	1.4
	1.0s		3465.20nm		7.5mb X
TMW	12.07	40	eP	02 39.95	-1.8
PRP	12.69	29	eP	02 46.88	-3.3
FYU	13.56	27	eP	02 57.50	-4.0
SIT	14.12	72	P	03 04.10	-4.7
SMY	15.15	271	P	03 21.00	-1.2
ILT	15.34	333	iPc+	03 26.40	1.7
BRW	16.27	4	P	03 36.50	0.0
INK	18.10	33	eP	03 57.00	-2.3
PET	23.84	282	iPc+	04 57.00	-2.9
	1.0s		3480.00nm		6.8mb
Z	23s		180.70um		6.5MszX
N	20s		78.70um		
E	22s		140.50um		
			e	05 34.00	
			eS	09 13.00	
MCW	23.87	90	eP	05 00.01	-0.3
YKA	24.36	54	P	05 04.00	-0.9
	0.9s		182.00nm		5.6mb
GMW	24.48	92	eP	05 05.49	-0.8
BMW	24.82	95	eP	05 08.94	-0.6
RMW	25.09	92	eP	05 10.87	-1.3
LON	25.47	93	ePd-	05 14.66	-1.1
SHW	25.54	95	eP	05 15.97	-0.5
COR	25.88	99	ePd	05 20.50	1.0
MBC	26.00	21	iPc	05 19.30	-1.0
	0.5s		58.00nm		5.4mb
MGD	26.05	301	iPc+	05 19.50	-1.4
	0.8s		450.00nm		6.1mb
Z	18s		221.00um		6.7Msz
N	16s		70.00um		
E	18s		151.00um		
			i	06 10.00	
			iSS	11 00.00	
VGB	26.77	95	eP	05 26.41	-1.3
DPW	26.94	88	eP	05 27.32	-2.0
NEW	27.35	86	ePc-	05 30.71	-2.3
	1.1s		605.66nm		6.2mb
ARC	27.85	106	eP	05 37.89	0.4
	1.4s		610.00nm		6.1mb
Z	19s		296.00um		6.9Msz
			ePP	06 25.89	
			eS	10 13.89	
			eLQ	11 29.89	
			eLR	12 34.89	

FHC 27.95 106 eP 05 36.88 -1.6
1.1s 529.23nm 6.1mb
ePcP 08 51.38
EBI 28.69 88 ePc 05 42.00 -3.3
LBFM 28.75 103 eP 05 43.83 -2.0
e 05 54.44
eScP 12 28.86
WDC 28.90 104 ePd 05 44.83 -2.2
1.0s 830.00nm 6.4mb
Z 20s 277.00um 6.9Msz
ePP 06 40.00
eS 10 27.00
eLQ 11 58.00
eLR 13 04.00
ORV 30.19 105 eP 05 55.28 -3.2
ePcP 08 55.28
eScP 12 33.20
BKS 30.97 108 eP 06 04.09 -1.3
1.1s 230.00nm 5.9mb
Z 20s 219.00um 6.8Msz
ePP 06 53.09
eS 11 01.09
eLQ 12 49.09
eLR 13 39.09
HRY 31.21 85 ePc 06 05.00 -2.6
STAN 31.35 108 eP 06 06.70 -2.0
1.1s 590.00nm 6.3mb
Z 20s 215.00um 6.8Msz
eS 11 13.70
eLQ 12 52.70
eLR 13 37.70
LRM 31.36 87 ePc 06 05.70 -3.4
MHC 31.68 108 eP 06 15.14 3.3
1 6s 610.00nm 6.2mb
Z 20s 208.00um 6.8Msz
ePP 07 10.14
eS 11 16.14
eLQ 12 53.14
eLR 13 26.14
MCMT 31.71 89 iPc 06 09.40 -2.8
ARN 31.74 108 eP 06 09.40 -2.8
e 06 20.10
eScP 12 38.99
CMB 31.88 106 (P) 06 10.61 -2.8
1.5s 380.00nm 6.1mb
Z 20s 276.00um 6.9Msz
ePP 07 13.68
eS 11 19.68
esS 11 34.68
eSS 13 03.68
eLQ 13 08.68
eLR 14 24.68
BGMT 31.94 88 ePc 06 11.10 -3.0
SAO 32.21 109 eP- 06 13.52 -2.8
1.2s 111.97nm 5.6mb
Z 21s 248.34um 6.9Msz
ePcP 09 03.33
S 11 23.90
KVN 32.43 102 eP 06 15.68 -2.8
ePcP 09 00.32
eScP 12 42.04
TPMT 32.45 88 ePc 06 15.90 -2.8
MEMM 32.94 105 eP 06 21.03 -1.5
eS 11 43.53
BONR 33.09 104 eP 06 21.88 -2.4
eScP 12 43.70
TIK 33.17 327 iPc+ 06 21.00 -3.3
2.0s 1740.00nm 6.6mb
Z 16s 160.00um 6.8MszX
iPPP 07 46.00
PHAM 33.47 109 eP 06 24.83 -2.4
e 08 03.85
ePcP 09 05.06
eScP 12 45.24
OPA 33.49 176 eP 06 24.29 -3.2
TNP 33.60 102 eP 06 25.95 -2.7
ePcP 09 05.55
eScP 12 46.14
HVU 33.64 93 ePc 06 26.54 -2.3
ePcP 09 06.04
eScP 12 45.33
KIP 33.75 176 eP 06 27.18 -2.6
2.0s 3399.44nm 6.9mb
KUR 33.80 275 iPc+ 06 26.50 -3.5
1.0s 380.00nm 6.3mb
Z 20s 41.00um 6.1Msz
N 20s 37.80um

E 20s 50.40um
eS 11 54.00
eSS 14 20.00
HON 33.85 176 P- 06 31.06 0.4
Z 21s 239.60um 6.9Msz
S 11 54.22
DHH 33.92 176 (P) 06 29.93 -1.3
BCH 34.12 109 eP 06 29.12 -3.9
HKL 34.56 173 (P) 06 36.50 -0.7
ISA 34.65 107 eP 06 34.60 -2.9
1.8s 815.00nm 6.4mb
Z 19s 162.73um 6.8Msz
ePcP 09 09.26
S 11 57.52
eScP 12 48.20
eLQ 13 08.68
eLR 14 24.68
DUG 34.65 95 ePd+ 06 34.93 -2.7
1.7s 1764.97nm 6.7mb
Z 21s 186.94um 6.8Msz
S 12 00.64
SS 14 36.34
ABL 34.84 108 eP 06 36.71 -2.7
BW06 34.85 89 eP 06 36.41 -3.0
1.3s 203.32nm 5.9mb
FCC 35.03 56 ePc 06 42.40 2.0
MHA 35.10 173 (P) 06 39.43 -1.9
YAK 35.36 310 iPc 06 40.40 -2.7
1.0s 1460.00nm 6.9mb
iPPP 08 21.00
i 09 09.00
eS 12 04.00
i 16 54.00
DAU 35.40 94 eP 06 41.85 -2.4
KKH 35.62 173 eP 06 44.19 -1.6
YSS 35.70 281 iPc+ 06 44.30 -1.9
0.8s 350.00nm 6.3mb
Z 20s 63.70um 6.4Msz
N 20s 24.50um
E 20s 50.00um
epP 07 01.10 67kmX
e 08 04.00
i 08 27.00
eS 12 25.00
eSS 14 44.00
eSSS 15 14.00
GSC 35.83 105 ePd 06 45.33 -2.3
ePcP 09 11.14
eS 12 26.90
eScP 12 53.36
ARUT 35.94 99 ePc 06 45.78 -2.8
e 08 43.36
ePcP 09 14.39
EMUT 36.05 94 eP 06 46.84 -2.8
e 06 56.96
eScP 12 54.53
MSU 36.16 97 eP 06 48.02 -2.5
ePcP 09 12.45
eScP 12 54.60
SSK 36.16 107 eP 06 47.67 -2.8
PP 08 26.15
HPO 36.22 172 (P) 06 49.73 -1.1
PEC 36.69 107 eP 06 52.07 -2.7
1.5s 423.73nm 6.1mb
eS 12 39.19
SRU 36.69 95 iPc 06 52.73 -2.2
RSSD 37.18 83 ePd+ 06 56.33 -2.7
0.6s 145.08nm 6.0mb
ePcP 09 15.54
S 12 34.74
PLM 37.26 108 eP 06 57.09 -2.6
PFO 37.29 107 ePd 06 57.34 -2.5
epPd 07 07.11 33kmX
ULM 38.18 70 eP 07 07.50 0.5
ERM 38.48 274 iPc 07 06.68 -2.9
e 07 23.07
e 07 26.96
GLA 38.60 106 eP 07 08.16 -2.7
eS 13 04.19
SAP 38.86 277 eP 07 10.00 -2.8
GOL 39.25 90 eP 07 13.89 -2.6
2.3s 1937.79nm 6.5mb
Z 19s 267.80um 7.1Msz
epP 07 23.99 35kmX
e 07 26.22
esP 07 28.95
ePcP 09 20.96

S 13 11.48
SS 16 21.63
TUC 41.41 103 (P) 07 32.78 -1.2
1.7s 742.10nm 6.1mb
Z 20s 79.59um 6.6Msz
epPd 07 42.38 32kmX
ed 07 44.20
esPd 07 46.85
ec 07 50.08
ePcP 09 29.23
eScP 13 14.72
S 13 38.88
SS 16 57.14
ANMO 41.92 96 ePc 07 35.11 -3.3
epPd 07 45.95 38kmX
ed 07 47.94
esPd 07 50.67
ec 07 53.65
ALQ 41.92 96 eP 07 35.34 -3.1
2.2s 1392.54nm 6.3mb
ePcP 09 31.30
FRB 43.52 40 ePc 07 57.60 6.8
0.6s 73.00nm 5.6mb
BOD 44.19 310 iPc 07 53.30 -3.0
0.7s 241.00nm 6.1mb
MDJ 44.46 287 iPc 07 55.48 -3.2
ed 08 12.04
ed 08 15.59
ACO 44.87 88 iPc 07 59.80 -2.3
MAJO 44.99 272 iPc 08 00.83 -2.3
1.6s 3332.49nm 7.0mb
e 08 03.71
MAT 44.99 272 iPc 08 00.70 -2.4
Z 20s 34.75um 6.3Msz
eS 14 38.00
KBS 46.0B 2 iPc 08 11.10 0.0
DAG 46.10 11 iPd 08 10.00 -1.3
1.0s 878.00nm 6.7mb
NRI 46.22 333 iPc+ 08 10.40 -1.9
i 10 41.00
e 14 44.00
JAQ 46.32 55 ePc 08 10.30 -3.0
MEO 46.55 89 iPc 08 12.60 -2.8
OCO 46.66 89 iPc 08 12.30 -3.9
HIA 46.73 298 iPc 08 13.20 -3.5
ed 08 27.60
ed 08 30.66
ed 08 34.14
FNO 46.89 88 iPd 08 15.20 -2.9
CIT 48.02 304 eP 08 24.00 -2.8
CCM 48.43 81 iPc 08 25.93 -4.2
1.8s 809.10nm 6.5mb
ec 08 28.66
epPd 08 34.95 30kmX
ed 08 38.27
SLM 48.60 79 P- 08 33.14 1.8
Z 19s 675.77um 7.6Msz
PP 10 25.54
S 15 32.35
SS 19 12.53
FVM 48.94 80 iPc+ 08 29.75 -4.3
1.3s 713.21nm 6.5mb
Z 20s 292.80um 7.3Msz
PP 10 32.47
S 15 33.73
SS 19 21.54
EEO 49.24 64 ePc 08 36.60 0.3
UYO 49.36 87 iPc 0B 32.60 -4.7
MIAR 49.59 86 iPc 08 35.27 -3.8
1.8s 747.98nm 6.4mb
Z 19s 59.43um 6.6Msz
epPd 08 45.20 33kmX
ed 08 47.27
esPd 08 49.17
SHK 49.59 274 iPc 08 37.00 -2.0
1.0s 320.00nm 6.3mb
OLY 50.10 83 eP 08 38.65 -4.3
ELC 50.11 80 ePc 08 38.71 -4.3
GRT 50.72 81 eP 08 43.93 -3.7
ACTO 50.77 68 P 08 45.08 -2.8
MZX 50.89 106 iP 0B 46.20 -2.8
TYNO 51.22 68 P 08 48.19 -3.2
WLVO 51.43 66 P 08 49.97 -2.9
STCO 51.51 67 P 08 50.34 -3.2
GAC 51.72 63 ePc 08 52.50 -2.6
IRK 52.12 309 iP+ 08 54.00 -4.1
Z 19s 87.00um 6.8Msz

13d 12h

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ETA		70.40	16	iPc	11	00.60	-0.9					PcP	11	40.00				0.7s	254.90nm		6.3mb
BAG		70.40	271	ePc+	10	57.00	-5.3					PP	14	03.50		LPF		75.72	14	iPc	11	31.80	-0.9
		1.5s	255.56nm			6.1mb						PPP	15	35.00				0.7s	313.10nm		6.4mb
			eS	20	16.00							e	15	44.00		LSA		75.74	302	iPc	11	32.73	-1.1
VAL		70.42	19	iP	11	00.50	-1.1					PcS	15	48.00		LANF		75.75	8	P	11	31.85	-1.1
		0.8s	9.70nm			4.9mb	X					S	20	18.00		CTB		75.76	262	ePd	11	22.00	-11.5
			S	20	16.00							S	20	40.00		HOFF		75.80	8	P	11	32.44	-0.8
ECB		70.62	17	iPc	11	01.60	-1.3					PS	20	55.00		SRBF		75.82	8	P	11	32.51	-0.8
		0.8s	253.00nm			6.3mb						ScS	21	10.00		WET		75.90	5	iPc	11	33.10	-0.7
PRZ		70.63	318	iPd-	11	02.50	-0.8					SS	24	46.00				1.3s	475.00nm		6.3mb
PMO		70.71	167	eP	11	01.00	-2.7	UCC		73.64	10	iP+	11	19.00	-1.7		Z	22s	31.00um		6.6Msz
		1.5s	438.70nm			6.3mb						S	20	49.00		KHC		75.94	4	iPc	11	33.40	-0.7
TPT		70.73	167	eP	11	01.00	-2.8					e	21	09.00				1.1s	316.10nm		6.2mb
		1.4s	381.60nm			6.3mb		MENF		73.64	11	P	11	19.30	-1.4				e	11	48.60	
RAB		70.86	231	iPc+	11	00.00	-4.8	BNS		73.73	8	iPc	11	20.10	-1.2				e	12	21.00	
			eS	20	04.00					1.4s	430.00nm			6.3mb					e	15	24.50	
ECP		70.87	17	iPc	11	03.10	-1.2		Z	23s	63.00um			6.8MszX					S	21	16.00	
		0.8s	237.00nm			6.3mb						i+	14	12.00					eSS	26	40.00	
RUV		70.96	167	eP	11	02.30	-2.9	CLL		73.74	4	iPc	11	19.90	-1.4				e	30	00.00	
		1.4s	447.80nm			6.3mb				1.3s	470.00nm			6.3mb					e	39	28.50	
VAH		70.98	167	eP	11	02.40	-2.9		Z	20s	27.50um			6.5Msz		SPC		76.01	360	iPc	11	34.30	-0.3
		1.4s	319.80nm			6.2mb						i	11	32.00		RAR		76.08	179	P	11	44.00	9.0
MNK		71.09	355	iP	11	00.00	-5.6					eS	20	48.00					S	21	16.00	
			e	13	44.00							eP*PKS	42	21.00		STR		76.14	8	P	11	34.33	-0.8
			eS	20	11.00			ENN		73.82	9	iPc	11	20.10	-1.7	GEC2		76.23	4	e(P)	11	34.70	-1.1
			eSS	24	44.00					1.1s	421.10nm			6.4mb				0.9s	144.20nm		6.0mb
			eSSS	27	56.00			SNF		73.91	10	iPc	11	21.20	-1.1	CDF		76.27	8	P	11	34.69	-1.3
HCG		71.15	15	iPc	11	04.30	-1.8	MEM		73.98	9	iPc	11	21.43	-1.3	WLS		76.28	8	P	11	34.69	-1.3
BBJ		71.26	85	iPd	11	04.36	-2.9			1.4s	234.00nm			6.0mb		VITF		76.35	9	P	11	35.23	-1.1
HTR		71.45	15	iPc	11	06.50	-1.4					ic	11	38.78		ECH		76.46	8	P	11	35.68	-1.3
OVP		71.59	269	eP	11	06.50	-2.7	BRG		74.22	4	iPc	11	21.40	-2.7	UZH		76.54	358	iPc+	11	35.50	-1.8
HAE		71.59	14	iPc	11	07.50	-1.2			2.5s	2500.00nm			6.8mb						i	11	45.00	
		1.0s	414.00nm			6.4mb			Z	24s	37.50um			6.6MszX						i	11	52.00	
FRU		71.74	321	iPc+	11	09.00	-0.8		N	20s	23.00um									iS	21	20.00	
		2.0s	2090	00nm		6.8mb			E	20s	38.50um									i	21	43.00	
	Z	19s	286.00um			7.6Msz						i	11	41.50						i	21	49.00	
	N	19s	250.00um									iS	20	56.00						iSP	22	11.00	
	E	19s	105.00um									eP'P'	38	45.60						iPS	22	18.00	
			e	13	52.00			DOMF		74.25	10	P	11	22.92	-1.4	LIBD		76.56	8	P	11	36.50	-1.0
			eS	20	20.00			KSP		74.32	2	iPc	11	23.30	-1.4	HAU		76.59	9	iPc	11	36.60	-1.1
STH		71.76	85	iPd	11	06.42	-3.8			0.9s	300.00nm			6.3mb				0.9s	327.60nm		6.3mb
GWJ		71.80	84	iPd	11	07.48	-3.2					e	38	40.00			Z	25s	39.00um		6.6MszX
WIT		71.85	8	iPc	11	09.80	-0.4					e	42	18.50		PPR		76.79	268	ePd	11	38.00	-1.3
			e	11	19.00			MOX		74.34	5	iPc+	11	23.90	-1.0	FUR		76.80	6	iPc	11	38.00	-0.9
HGH		71.94	14	iPc	11	09.50	-1.3			1.3s	666.00nm			6.5mb				1.0s	405.00nm		6.4mb
AAK		71.96	321	iPc	11	10.07	-1.2		Z	22s	32.00um			6.6Msz			Z	23s	42.00um		6.7MszX
TGY		72.05	269	iPc	11	10.00	-2.0					eS	21	06.00					i	11	55.40	
PLP		72.10	264	ePd	11	08.70	-3.5	QIZ		74.44	281	iPc	11	23.94	-1.9	BSF		76.80	9	P	11	37.62	-1.4
HNR		72.38	221	eP	11	09.50	-4.3	CGP		74.46	262	eP	11	23.00	-3.0	MOF		76.81	9	P	11	37.62	-1.4
D8N		72.43	9	iP+	11	13.00	-0.6	TNS		74.56	7	iPc	11	25.30	-0.9	FEL		76.86	8	P	11	37.62	-1.8
	Z	22s	33.60um			6.6Msz						ic	11	42.20		VKA		76.90	2	iPc	11	37.80	-1.6
			ePP	14	00.00			HOF		74.69	5	iPc	11	25.50	-1.4			5.0s	3172.00nm		6.6mb	X
			iS	20	17.00					1.2s	210.00nm			6.0mb			Z	20s	14.90um		6.3Msz
			eSS	25	30.00			DPC		74.80	2	iPc	11	26.46	-1.1				i	13	27.40	
			eSSS	29	10.00					1.3s	1278.11nm			6.8mb					LR	51	50.00	
PGP		72.52	269	iPc	11	11.00	-3.8	WLF		74.93	9	iPc	11	27.47	-0.7	ZST		76.98	2	iPc	11	38.80	-1.0
		1.0s	229.00nm			6.1mb				1.8s	343.50nm			6.1mb				0.9s	325.50nm		6.4mb
BRNL		72.64	4	iPc	11	13.90	-1.0	OJC		74.97	360	iPd	11	27.00	-1.5	KMR		77.04	4	iP+	11	39.10	-1.1
			eS	20	37.00					1.4s	327.00nm			6.1mb						ipP	11	59.70	77kmX
BRN		72.64	4	ePc	11	14.00	-0.9		Z	24s	16.90um			6.3MszX		LOR		77.08	11	iPc	11	39.20	-1.2
WTS		72.67	8	iPc	11	13.90	-1.2		N	25s	15.60um							1.0s	272.00nm		6.2mb
		1.0s	500.00nm			6.5mb			E	25s	6.20um						Z	24s	43.00um		6.7MszX
			e	11	30.00							i	11	39.20		BBS		77.23	8	P	11	40.03	-1.3
WAR		72.94	359	eP	11	15.00	-1.6					e	20	18.00		MFF		77.24	14	iPc	11	40.50	-0.8
			e	14	00.00							e	20	57.00				0.8s	464.20nm		6.6mb
			eS	21	02.00							i	26	10.00		SSF		77.24	11	iPc	11	40.30	-1.0
CPZ		72.96	17	iPc	11	15.40	-1.4	DAV		75.07	261	eP	11	27.10	-2.4			0.9s	387.85nm		6.4mb
AFR		72.99	169	eP	11	14.30	-3.0	FLN		75.08	14	iPc	11	27.70	-1.4	BHG		77.32	5	iPc	11	41.10	-0.7
		1.4s	393.80nm			6.2mb				0.9s	386.55nm			6.4mb				1.2s	472.00nm		6.4mb
CME		73.00	16	iPc	11	15.80	-1.3	PRU		75.12	3	iPc	11	27.90	-1.4	LBF		77.37	11	iPc	11	40.70	-1.4
PPN		73.02	169	eP	11	14.50	-3.0			0.9s	237.00nm			6.2mb				0.9s	264.70nm		6.3mb
		1.4s	393.80nm			6.2mb			Z	21s	102.40um			7.1Msz		SRO		77.38	1	iP	11	41.60	-0.4
PPT		73.04	169	eP	11	14.70	-2.9		N	21s	69.90um					BMR		77.47	357	ePc	11	41.00	-1.5
		1.4s	324.10nm			6.1mb			E	22s	95.40um					CEI		77.48	358	eP	11	43.00	0.4
	Z	31s	2250.00um			8.3MszX						eS	21	04.00		SOP		77.48	2	iPd	11	41.20	-1.4
PAE		73.14	169	eP	11	15.10	-3.0					eSS	26	21.00		AVF		77.49	11	iPc	11	41.50	-1.2
		1.9s	765.00nm			6.4mb						e	29	41.00				0.6s	146.45nm		6.2mb
TVO		73.29	169	eP	11	16.40	-2.7	GRF		75.27	6	iPc	11	29.50	-0.7	MOTA		77.60	6	iPc	11	42.30	-1.2
		1.7s	911.70nm			6.5mb				1.5s	771.00nm			6.5mb				1.3s	600.00nm		6.5mb
MAP		73.35	264	iPc	11	13.00	-6.6		Z	24s	38.00um			6.6MszX		WATA		77.64	6	iPc	11	42.70	-1.0
KMI		73.49	290	iPc	11	18.07	-2.5	LDF		75.29	13	iPc	11	28.90	-1.4					i	11	51.70	
		1.6s	700.00nm			6.4mb				1.0s	376.00nm			6.3mb		BGF		77.66	12	iPc	11	42.60	-1.0
	Z	25s	79.60um			6.9MszX		LVV		75.31	357	iP+	11	29.00	-1.4			0.9s	257.50nm		6.3mb
	N	20s	53.00um									ePPP	16	09.00		SMF		77.69	11	iPc	11	42.50	-1.3
	E	22s	51.80um									eS	21	05.00				0.9s	328.90nm		6.4mb
			epP	11	26.76	28kmX						iPS	21	53.00		BUD		77.71	0	iPd	11	42.60	-1.2
			e	11	35.20			GRR		75.39	14	iPc	11	29.80	-1.1	WTTA		77.72	6	iPc	11	43.20	-1.0

13d 12h

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13d 12h

			eS	22	49.00		THE	84.52	357	iPc	12	18.72	-1.1	RSA	87.69	21	eP	12	35.00	-0.5
SDV	82.68	85	ePd	12	07.80	-3.3				i	22	52.40		KCHT	87.71	8	iPd	12	35.20	-0.5
AOU	82.70	5	P	12	10.10	-0.6				i	42	01.10		KER	87.74	337	eP	12	35.00	-1.0
HCY	82.75	1	iPc	12	09.12	-1.7	SGO	84.57	3	P	12	18.90	-1.1	YER	87.75	353	iP	12	36.00	0.1
TTG	82.77	0	iPc	12	09.65	-1.2	BNT	84.57	354	iP	12	17.70	-2.4	ELL	88.01	352	iP	12	36.10	-1.1
BDV	82.91	1	iPc	12	09.98	-1.7	EDC	84.58	354	iP	12	19.00	-1.2	PZI	88.07	4	P	12	36.40	-1.0
GRS	82.95	339	iPc+	12	11.80	-0.3	KCT	84.65	353	iP	12	18.70	-1.8		0.9s	202.20nm			6.4mb	
	1.2s	620.00nm			6.6mb		ANTO	84.65	350	iPc	12	30.53	9.9	GHAT	88.19	9	iP+	12	37.00	-1.0
Z	25s	142.00um			7.2MszX		EVIA	84.67	17	iPc	12	20.00	-0.8	KRIT	88.41	8	iPd	12	37.80	-1.3
N	25s	122.00um					OUR	84.78	357	iPc	12	19.84	-1.3	VLI	88.42	357	iPc	12	36.90	-2.2
E	25s	111.00um					LCI	84.85	1	P	12	20.80	-0.7	ZGN	88.46	8	iP+	12	38.50	-0.8
			e	15	30.00		KZN	84.87	358	eP	12	20.70	-1.0	KSL	88.66	352	iPc	12	38.60	-1.6
			iPS	23	47.00		TPE	84.90	360	eP	12	24.50	2.8	AVE	88.89	22	iPc	12	40.20	-1.2
EROO	82.99	15	iPc	12	11.00	-1.1	EVAL	84.90	21	iPc	12	21.00	-0.8				i	13	18.00	
EBR	83.00	14	iP+	12	10.00	-2.1	EBAN	84.90	18	iPc	12	20.80	-1.1	IFR	89.16	20	iPc	12	41.20	-1.7
			iPP	15	24.00		EHOR	84.96	19	iPc	12	21.50	-0.6	FAM	89.33	348	eP	12	43.10	-0.3
			iS	22	29.00		MGR	85.00	3	P	12	20.90	-1.3	CSS	89.45	349	eP	12	41.90	-2.1
NDI	83.02	312	iPc	12	11.00	-1.4	LIT	85.06	358	iPc	12	21.24	-1.4	PPCY	89.63	350	eP	13	00.50	15.7
	0.8s	485.07nm			6.7mb		ACU	85.13	16	eP	12	22.90	-0.1	VAM	89.69	356	eP	12	43.50	-1.6
			ePP	15	26.00		EZN	85.19	355	iP	12	21.30	-1.9	NPS	89.77	355	eP	12	32.80	-12 7
			eS	22	26.00		PAIG	85.20	357	iPc	12	21.24	-2.0	BHL	90.21	347	P	12	46.00	-1.7
			ePS	23	42.00		MMN	85.26	3	P	12	21.20	-2.3				PP	16	24.00	
			eSS	28	04.00		BNN	85.31	347	iP	12	23.70	-0.3				SKS	23	20.00	
			eSSS	31	34.00		SRN	85.31	360	eP	12	23.00	-0.8	TBT	90.52	32	iPc	12	47.94	-1.1
KAS	83.06	349	iPc	12	12.20	-0.4	CSI	85.38	3	P	12	23.30	-0.9				ec	12	50.42	
AZI	83.07	5	P	12	11.90	-0.5	ELUO	85.40	19	iPc	12	23.20	-1.2				ec	12	52.08	
KVT	83.08	348	iP	12	12.00	-0.7	TEH	85.42	334	eP	12	25.00	0.4				epPd	12	57.46	30kmX
DMK	83.12	354	iP	12	11.70	-1.1	EHUE	85.45	17	iPc	12	24.00	-0.7	HRI	90.82	346	eP	12	49.20	-1.3
RMP	83.21	5	P	12	12.30	-0.9	KEK	85.48	360	iPc	12	24.00	-0.7	OIS	90.95	234	iPc	12	47.30	-3.6
SKO	83.21	359	iPc	12	12.70	-0.5	TDS	85.50	2	P	12	24.00	-0.8	IPM	91.13	280	ePc	12	49.00	-3.0
	1.2s	770.00nm			6.7mb		ROI	85.59	2	P	12	24.30	-1.0		0.9s	139.10nm			6.3mb	
			i	12	25.70		EALH	85.61	16	iPc	12	24.00	-1.4	TIO	91.21	23	iPc	12	51.40	-1.0
			i	15	23.00		IGT	85.66	359	iPc	12	24.52	-1.1	CHIE	91.39	33	iP	12	53.00	-0.1
			i	22	33.00		ALT	85.70	352	iP	12	25.10	-0.8	BRS	91.46	220	iPKPc	-12	51.00	-2.1
			i	22	47.00		PRK	85.77	355	iPc	12	25.10	-1.0		1.0s	5.00nm			4.9mb X	
			i	28	26.00		QUE	85.78	320	iPc+	12	25.10	-1.5				eSKP	15	51.00	
ULC	83.23	0	iPc	12	12.02	-1.3		1.4s	4767.44nm			7.5mb X					eSKS	23	27.00	
RDP	83.26	5	P	12	12.60	-1.0				e	22	51.90					e	24	00.00	
LIS	83.31	22	iPc	12	13.20	-0.5	GIBL	85.79	20	eP	12	25.80	-0.5				e	30	00.00	
SDI	83.37	4	P	12	12.80	-1.3	EPRU	85.80	20	iPc	12	25.50	-0.9	GGC	91.73	31	iP	12	54.00	-0.6
DUI	83.44	4	P	12	13.90	-0.6	ECOG	85 81	18	iPd	12	25.50	-1.0	CFTV	91.89	29	iP	12	54.50	-0.9
PAB	83.46	18	iPc	12	13.92	-0.7	LIJA	85.83	20	iP	12	26.30	-0.3	SALJ	92.07	346	P	12	54.00	-2.2
	1.4s	831.87nm			6.7mb		CZI	85.93	3	P	12	25.10	-1.8	HYB	92.20	305	iPc	12	54.50	-2.4
			ec	12	16.24		ALJ	86.01	20	iP	12	27.60	0.1		1.0s	300.00nm			6.7mb	
			ec	12	18.39		SFS	86 09	21	iP	12	27.00	-0.8				eSKS	23	22.00	
			epPd	12	23.03	29kmX	AGG	86.14	358	iPc	12	26.05	-2.0				e	24	01.00	
			esP	12	29.32		MAL	86.19	19	iPc	12	28.00	-0.2	DSI	92.54	347	eP	12	56.50	-1.8
CAR	83.47	81	iPd	12	12.00	-3.1				iPP	15	46.00		WB2	92.94	239	iPd	12	56.30	-3.8
PHP	83.51	359	iPc	12	13.60	-1.2				iS	23	04.00			1.0s	56.80nm			6.0mb	
LACI	83.56	360	iPc	12	13.50	-1.4	CNIL	86.21	20	iP	12	27.80	-0.6	WRA	92.95	239	P	12	56.80	-3.3
FUO	83.67	90	iPd	12	15.00	-1.4	TCE	86 23	77	eP	12	24.29	-4.5		0.9s	39.60nm			5.8mb	
CTT	83.75	353	iP	12	14.00	-2.0	EGUA	86.24	18	iPc	12	27.10	-1.4	BOM	93.50	311	eP	12	59.90	-2.9
RFI	83.78	4	P	12	12.72	-3.3	EJIF	86.25	20	iPc	12	28.00	-0.6				eS	24	25.10	
	1.5s	1343.40nm			6.9mb		GRI	86.34	2	P	12	27.78	-1.2	MBH	94.38	347	eP	13	04.90	-2.0
ISK	83.79	353	iP	12	13.60	-2.5		0.7s	651.90nm			7.0mb		HLW	94.71	350	eP+	13	07.00	-1.3
VAY	83.84	358	iPc	12	16.00	-0.4	ENIJ	86 34	17	P	12	27.37	-1.7				e	17	00.00	
	1.0s	330.00nm			6.4mb		TRN	86.47	77	eP	12	25.69	-4.2				eS	23	48.00	
			i	12	27.70		KHL	86.48	352	eP	12	27.60	-2.2	DHR	94.72	333	eP	13	05.00	-3.4
TIR	83.85	360	iPc	12	15.50	-0.9	PLAT	86.51	20	iP	12	29.80	-0.1	HQL	94.85	346	eP	13	06.67	-2.3
			iS	22	34.00		IZM	86.56	354	iP	12	28.70	-1.4	AYN	95.11	346	eP	13	09.00	-1.1
CEOS	83.87	83	iPc	12	14.20	-2.9	OJEN	86.58	20	iP	12	30.70	0.4	SRFA	95.16	346	eP	13	09.00	-1.4
RDO	83.91	355	iPc	12	16.50	-0.3	TPP	86.71	77	eP	12	27.60	-3.5	BADA	95.59	346	iPc	13	10.67	-1.7
HRT	83.98	352	iP	12	15.20	-2.0	GAZ	86.78	346	eP	12	31.00	-0.1	GBA	96.03	304	Pc	13	12.00	-2.5
ECHE	83.99	16	iPc	12	16.70	-0.6	TBH	86.79	76	eP	12	28.16	-3.3	NNA	96.12	102	(P)	13	10.91	-3.9
KNT	83.99	357	iPc	12	16.64	-0.6	CPS	86.87	20	iPc	12	31.00	-0.6				epPd	13	21.50	33kmX
SRS	84.02	357	iPc	12	16.36	-1.0				i	12	44.50					esP	13	26.72	
GBZT	84.03	352	eP	12	16.00	-1.4	GMB	86.97	3	P	12	30.34	-1.9	ASPA	96.32	237	iPc	13	12.00	-3.5
SLB	84.07	74	eP	12	15.47	-2.5		1.0s	215.70nm			6.3mb					e	16	06.80	
OHR	84 08	359	iPc	12	16.70	-1.0	LVI	87.00	6	P	12	31.26	-0.9				eSKS	23	47.30	
	1.4s	1234.00nm			6.9mb			0.9s	45.40nm			5.7mb					ePKKP	29	58.40	
			i	12	22.40		VLS	87.01	359	eP	12	31.20	-1.1				eP'P'	38	32.10	
			i	12	25.00		SOI	87.07	3	P	12	30.10	-2.4	MJMA	96.33	337	iPc	13	14.67	-1.2
KHT	84.13	287	iPc	12	15.80	-2.4	ATH	87.15	357	eP	12	31.50	-1.4	QASM	96.49	338	eP	13	08.00	-8.6
ALN	84.14	355	iPc	12	16.72	-1.2	BCK	87.24	351	iP	12	31.70	-1.8	LEM	96.65	268	ePc	13	15.50	-2.0
BOG	84.17	90	eP	12	17.00	-1.9	CIN	87.30	353	iPc	12	32.00	-1.6	RYD	97.12	335	iPc	13	17.50	-1.9
			eS	22	34.00		CTA	87.56	229	iPc+	12	32.00	-2.9	WAJH	97.67	345	eP	13	20.67	-1.2
EYL	84.20	352	iP	12	16.50	-1.9		1.0s	77.50nm			5.9mb		RIV	97.86	219	eP	13	20.00	-2.1
GRG	84.21	358	iPc	12	17.92	-0.4				ipP	12	37.00	16kmX	SNZO	98.42	199	ePDIFc	13	22.61	-1.8
YLV	84.26	352	iP	12	16.60	-2.1				i	13	39.00					epPd	13	32.54	31kmX
BRT	84.30	2	P	12	18.06	-0.7				eS	22	30.00					pPP	19	48.00	
SOH	84.32	357	iPc	12	17.68	-1.2				e	27	00.00					SKS	23	51.00	
TAB	84.33	339	iP+	12	19.00	-0.2	CTAO	87.56	229	iPc	12	31.95	-3.0				PS	26	14.00	
ESEL	84.36	13	iPc	12	18.40	-0.7		1.4s	410 14nm			6.5mb					SS	31	14.00	
FNA	84.40	359	iPc	12	18.10	-1.2				ec	12	34.60					SSS	35	17.00	
GPA	84.46	352	eP	12	18.00	-1.6				epPd	12	42.96	35kmX	KOD	98 93	302	ePKP	13	26.00	-2.0
FCV	84.50	75	eP	12	17.38	-2.7				ed	12	45.61					ePS	21	31.00	
KGT	84.51	354	iP	12	17.60	-2.2				esP	12	48.50		BWA	99.40	221	eP	13	26.10	-3.1

13d 12h

			ePP	17	40.80	
CNB	99.84	220	eP	13	29.00	-2.2
			e	17	31.40	
STK	99.88	227	eP	13	29.40	-2.0
	2.3s	5.50nm			4.7mb X	
			ePP	16	55.10	
			eSKS	25	03.20	
			ePKKP	29	48.90	
CAN	99.98	220	eP	13	30.00	-1.8
			ePP	17	39.30	
WARB	102.00	241	ePdiff	13	36.00	-5.1
ZOBO	104.51	98	Pdiffc	13	47.90	-5.3
			SKS	24	32.00	
LPB	104.73	98	Pdiff	13	46.00	-8.0
	Z 25s	29.72um			6.7MszX	
			PP	18	28.50	
			SKS	24	28.00	
			LR	50	38.00	
CNCB	105.02	98	Pdiff	13	52.20	-3.2
			SKS	24	39.00	
SIV	108.31	92	Pdiff	14	20.00	10.6
			e	29	38.00	
ANT	109.14	104	ePdiff	14	17.00	4.1
NWAO	112.24	244	ePdiff	14	28.26	1.7
FSA	113.46	102	ePKP	18	22.30	-2.9
AAE	114.04	339	ePdiff	14	36.00	0.7
BAO	115.50	81	ePKP	18	24.80	-4.8
			e	19	37.10	
			e	19	54.00	
TCA	118.30	105	ePKPc	18	30.50	-3.9
PPD	118.69	88	ePKP	18	32.00	-3.3
CACB	121.03	84	ePKP	18	36.90	-3.1
			e	20	06.30	
VAO	121.93	85	ePKP	18	37.90	-3.7
			e	20	24.00	
NAI	124.45	339	Pdiff	15	24.00	2.4
			iPPc	18	46.00	
			iSKSP	30	14.00	
			iPKKS	30	56.00	
LPA	124.67	103	ePKP+	18	43.00	-3.4
DRV	129.45	206	ePdiff	15	58.00	15.9
DRV	129.45	206	PKP	18	58.00	3.4
			PP	21	16.00	
			SKS	26	16.00	
			SP	31	08.00	
			SS	38	29.00	
SBA	134.30	189	iPKPc	19	02.20	-1.3
CSY	138.17	217	ePKP	19	01.10	-10.0
	0.8s	8.70nm				
LSZ	139.62	347	iPKPd	19	03.50	-11.9
			i	22	03.00	
BUL	144.35	345	iPKPd+	19	19.50	-4.1
	1.0s	540.00nm				
	Z 22s	57.78um			7.3Msz	
	N 22s	38.52um				
	E 22s	41.48um				
			ipP	19	28.60	
			eS	41	48.00	
SPA	145.00	180	iPKPc	19	18.50	-4.8
	2.4s	4817.07nm				
	Z 20s	5.59um			6.3Msz	
			i	22	50.80	
WIN	147.38	4	iPKPc	19	26.40	-2.3
	1.2s	1100.00nm				
PAF	149.03	259	iPKP	19	35.60	5.4
			iPP	23	18.00	
			eSP	33	21.00	
			iSPP	36	00.00	
			eSS	42	23.00	
			eSSS	48	05.00	
BFT	149.55	341	iPKPc	19	29.00	-3.0
	1.0s	410.00nm				
SLR	149.90	344	iPKPc	19	29.00	-3.4
	0.7s	772.00nm				
KSR	150.22	347	iPKPc	19	29.00	-4.0
	1.0s	600.00nm				
PRY	151.19	345	iPKPc	19	32.30	-2.1
	0.8s	360.00nm				
BFS	151.26	346	iPKPc	19	39.00	4.6
	1.0s	400.00nm				
SWZ	151.71	349	ePKP	19	32.40	-2.7
	1.3s	480.00nm				
SEK	152.54	344	iPKPc	19	33.10	-3.2
	1.0s	200.00nm				
BOSA	153.12	349	ePKPc	19	34.79	-2.0
BLF	153.51	347	ePKP	19	33.00	-4.6
POF	154.22	359	iPKPc	19	36.40	-1.9
	0.9s	21.00nm				
FRS	154.25	348	iPKPc	19	36.00	-2.4
	0.8s	40.00nm				
MAW	156.42	221	ePKP	19	31.00	-9.1
	1.0s	191.67nm				
	Z 18s	16.67um			6.9Msz	
SUR	157.19	357	iPKPd	19	53.00	10.5
	1.5s	300.00nm				
SUR	157.19	357	(PKP)	19	42.90	0.4
GRM	157.59	344	ePKP	19	34.50	-8.3
	0.7s	162.00nm				
CRZF	157.95	280	iPKPc	19	50.00	7.3
			iPP	24	10.00	
			eSKKS	30	12.00	
			ePPS	37	24.00	
			eSSP	45	12.00	
			eSSS	50	18.00	
CER	158.19	1	ePKP	19	36.00	-7.4
	1.2s	368.00nm				
BLE	158.72	2	iPKPd	19	45.00	1.1
	0.6s	33.00nm				
SNA	162.00	156	e(PKP)	19	42.00	-4.2
	1.0s	100.00nm				
NVL	163.99	171	ePKP	19	42.00	-6.2
	2.0s	99.00nm				
	Z 22s	46.50um				
	N 22s	34.00um				
	E 22s	25.50um				
			i	20	46.00	
			e	24	35.00	
			e	31	10.00	
			e	31	59.00	
			e	34	00.00	
			e	34	45.00	
			e	35	14.00	

766 obs. associated

? MAY 13, 1993 12h 17m 08.21± 0.99s
26.348 S ± 7.4km 27.374 E ±11.5km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)

PRY	0.58	171	eP	17	19.00	-0.9
			S	17	25.10	
KSR	0 64	318	eP	17	21.00	-0.1
			S	17	31.50	
SLR	1.02	53	eP	17	28.00	-0.1
			S	17	39.00	
SEK	1.98	174	eP	17	44.00	1.1
			S	18	08.50	

S.D. = 1.5 on 4 of 4 obs.

• MAY 13, 1993 12h 23m 16.82± 0.96s
12.830 N ± 9.8km 145.327 E ±24.2km
DEPTH = 33.0km (normal)
4.8mb (3 obs.)
SOUTH OF MARIANA ISLANDS (210)
Felt (III) on Guam.

GUA	0.81	330	iPd	23	32.40	0.6
GUMO	0.88	329	iPd	23	32.50	-0.3
			eS	23	41.40	
PJG	0.88	329	eP	23	32.60	-0.2
WB2	34.31	199	iPd	30	03.90	1.4
	0.5s	7.60nm			4.9mb	
MBL	42.05	217	eP	31	06.50	-0.7
	0.5s	10.00nm			4.8mb	
WARB	42.83	205	eP	31	13.00	-0.6
	0.4s	4.00nm			4.5mb	
KIC	144.67	301	PKP	42	44.80	-8.0X
LIC	144.98	301	PKP	42	46.20	-7.1X
ZOBO	147.46	100	PKP	42	57.00	-1.1
LPB	147.48	101	ePKP	43	04.00	6.1X
CNCB	147.58	101	PKP	42	59.00	0.8

S.D. = 1.0 on 8 of 11 obs.

% MAY 13, 1993 12h 58m 40.73± 1.50s
39.534 N ± 8.1km 16.741 E ±12.4km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

ROI	0.14	286	P	58	46.90	2.9
CSI	0.42	305	P	58	50.00	0.6
ACI	0.45	246	P	58	49.70	-0.3
CZI	0.57	236	P	58	51.50	-0.7
MMN	0.68	302	P	58	53.00	-1.2
			eSg	59	04.50	
MGR	1.09	304	P	59	00.20	-1.1
BRT	1.39	15	P	59	06.10	0.0
			eSg	59	26.00	
SGO	1.50	313	P	59	07.30	-0.4
SOI	1.55	200	P	59	08.60	0.2

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

? MAY 13, 1993 13h 05m 11.01± 1.21s
39.276 N ± 9.0km 27.763 E ±13.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

IZM	0.96	204	iPn	05	29.20	-0.1
			iSg	05	44.20	
KCT	1.07	25	ePn	05	31.90	0.7
BNT	1.09	6	ePn	05	30.60	-0.8
EZN	1.24	297	iPn	05	34.30	0.3

S.D. = 1.1 on 4 of 4 obs.

? MAY 13, 1993 13h 21m 36.07± 6.51s
57.937 N ±55.3km 6.295 E ±20.5km
DEPTH = 10.0km (geophysicist)
NORTH SEA (534)
MD 2.6 (BER).

KMY	1.39	337	eP	22	01.27	-0.2
			eS	22	17.30	
ODD1	1.99	5	eP	22	10.38	0.2
			eS	22	31.63	
EGD	2.41	347	eP	22	16.36	0.3
			eSg	22	45.23	
ASK	2.62	348	eP	22	18.87	-0.2
			eS	22	48.47	
HYA	3.24	359	eP	22	27.85	0.0
			iSg	23	10.95	
NRA0	3.89	42	ePn	22	36.68	-0.4
			ePg	22	46.25	
			eSg	23	32.48	
HFS	4.41	57	eP	22	44.80	0.2
	0.1s	0.70nm				

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

% MAY 13, 1993 13h 24m 45.03± 1.11s
39.139 N ± 7.6km 27.689 E ±12.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

IZM	0.81	204	ePg	25	00.70	-0.1
			iSg	25	13.20	
KCT	1.22	25	ePn	25	08.00	0.2
BNT	1.23	8	ePn	25	08.10	0.2
EZN	1.26	303	iPn	25	08.80	0.4
KGT	1.34	347	ePn	25	09.00	-0.8

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

% MAY 13, 1993 13h 48m 19.82± 0.81s
41.080 N ±15.4km 29.004 E ± 7.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

ISK	0.04	110	iPg	48	21.50	-0.4
CTT	0.44	279	iPg	48	28.60	-0.2
			eSg	48	33.80	
HRT	0.57	117	iPn	48	31.60	0.3
DMK	1.19	309	iPn	48	42.20	0.1
KGT	1.44	245	ePn	48	46.00	0.1

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

% MAY 13, 1993 14h 56m 49.24± 3.44s
28.754 S ±22.4km 67.081 W ±11.3km
DEPTH = 143.4 ± 41.3 km
LA RIOJA PROVINCE, ARGENTINA (138)

CYA	1.17	75	ePd	57	15.30	0.0
			S	57	33.40	
RTPR	1.62	162	iPc	57	20.10	0.2
			S	57	43.00	
RTLL	2.83	205	ePd	57	34.50	-0.3
			(S)	58	09.70	
CFA	3.01	199	eP	57	37.00	-0.2
			S	58	13.00	
RTCB	3.10	208	ePd	57	38.20	-0.2
			(S)	58	13.00	
TCA	3.36	141	ePd	57	41.50	-0.2

```
                  S     58 20.00
RTBS    3.55 215 e(P)c 57 44.50   0.4
MRA     3.83 162 e(P)  57 48.00   0.2
     S.D. = 0.3  on   8 of   8 obs.
-------------------------------------
?  MAY 13, 1993  15h 08m 19.10± 5.4Bs
   61.426 N ±18.5km   4.261 E ±38.8km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN NORWAY                (535)
      MD 2.1 (BER).

FOO     0.41  65 eP    08 27.49   0.0
                 eS    08 34.14
SUE     0.44 147 eP    08 28.04  -0.1
                 eS    08 34.96
HYA     0.97 105 iP    08 37.49   0.1
                 eS    08 51.42
ASK     1.05 154 eP    08 38.77  -0.1
                 eS    08 54.33
EGD     1.25 157 eP    08 42.45   0.1
                 eS    08 59.77
     S.D. = 0.1  on   5 of   5 obs.
-------------------------------------
   MAY 13, 1993  15h 17m 37.45± 0.59s
   41.113 N ± 7.8km   28.734 E ± 4.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                         (366)
      ML 2.8 (ISK).

CTT     0.23 279 iPg   17 42.10  -0.3
ISK     0.25 101 iPg   17 42.00  -0.8
                 iSg   17 47.50
GBZT    0.63 121 ePg   17 50.50   0.4
YLV     0.73 138 ePg   17 52.00   0.1
HRT     0.77 112 iPn   17 52.50   0.1
EDC     1.01 221 ePn   17 57.00   0.4
DMK     1.02 314 iPn   17 57.20   0.5
EYL     1.21 116 ePn   18 00.20   0.1
KGT     1.27 239 iPn   18 00.50  -0.5
     S.D. = 0.5  on   9 of   9 obs.
-------------------------------------
&  MAY 13, 1993  15h 48m 49.55s
   37.506 N          118.799 W
   DEPTH =  12.0km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      <GM-P>. MD 3.0 (GM).

CLKR    0.09 347 P     48 52.31  -0.4
MCSM    0.17 331 P     48 53.72  -0.1
MEMM    0.19 325 iPd   48 54.05   0.1
                 eS    48 58.25
CASR    0.21  71 P     48 54.24  -0.2
BHPR    0.32 130 P     48 56.22  -0.2
BCKR    0.39  60 P     48 57.47  -0.2
BONR    0.60  41 ePc   49 01.10  -0.5
CMB     1.36 293 ePc   49 14.19  -0.2
                 eS    49 31.66
TNP     1.38  65 ePc   49 14.97   0.2
WLHM    1.41 164 P     49 15.42   0.2
MCUM    1.51 288 P     49 17.18   0.7
KVN     1.64  19 ePn   49 19.68   1.3
MNHM    1.72 292 P     49 21.39   2.0
WCHM    1.72 160 P     49 21.04   1.3
BRMM    1.75 248 P     49 21.70   1.8
BAVM    1.78 275 P     49 24.98   4.7
BMSM    1.81 243 P     49 22.46   1.7
RCWM    1.81 149 P     49 22.94   2.1
NMC     1.81 156 P     49 22.69   1.9
ISA     1.86 172 P     49 23.20   1.7
WOFM    1.97 178 P     49 25.29   2.1
WBSM    2.04 165 P     49 26.64   2.4
EKH     2.08 247 P     49 26.97   2.3
PHAM    2.11 218 (Pn)  49 25.91   0.9
HJSM    2.11 252 P     49 27.20   2.1
WSHM    2.15 150 P     49 29.79   4.1
BVYM    2.22 251 P     49 28.55   1.8
SAO     2.24 252 ePn   49 27.34   0.3
     28 obs. associated
-------------------------------------
*  MAY 13, 1993  15h 50m 12.20± 0.71s
   9.169 S ±12.8km  158.803 E ±11.9km
   DEPTH =  25.9km  (  2 depth phases)
   4.2mb (  5 obs.)
 SOLOMON ISLANDS                (193)

HNR     1.16 103 iP    50 32.00  -0.8
                 iS    50 45.00
CTA    16.27 227 iPc   54 06.00   5.2X
        1.3s     19.23nm          4.1mb
BRS    19.00 197 iP    54 35.00   0.3
ARMA   22.18 197 iPc   55 09.70   1.5
WB2    25.94 243 iPd   55 44.20  -0.2
        0.6s      6.00nm          4.4mb
STK    27.68 213 iPd   55 59.70  -0.5
        0.5s      8.70nm          4.7mb
ASPA   27.83 236 eP    56 00.40  -1.3
        0.8s      4.80nm          4.3mb
WARB   34.86 237 eP    57 11.40   7.8X
SVW    78.62  21 (P)   02 14.72   1.5
                 pP    02 22.66  25km
FBA    83.80  20 (P)   02 39.51  -0.8
MSU    94.87  52 (P)   03 37.41   3.6X
                 pP    03 45.95  27km
YKA    96.49  28 eP    03 40.40   0.2
        0.7s      0.40nm          4.0mb
     S.D. = 1.2  on   9 of  12 obs.
-------------------------------------
   MAY 13, 1993  16h 13m 26.08± 0.68s
   40.126 N ± 7.3km  109.087 W ± 6.4km
   DEPTH =  5.0km  (geophysicist)
 UTAH                           (478)
      ML 3.0 (GS).

EMUT    1.36 257 eP    13 51.71  -0.3
SRU     1.50 228 ePd   13 53.69  -0.2
                 eS    14 13.25
PV09    1.63 181 iPd   13 54.79  -1.0
                 eS    14 15.50
DAU     1.68 280 eP    13 57.05   0.4
                 eS    14 21.34
BW06    2.67 353 eP    14 10.14  -0.6
                 eS    14 45.65
DUG     2.86 273 (Pn)  14 13.34   0.0
                 eS    14 49.71
MSU     2.89 237 ePn   14 14.67   0.9
                 ePg   14 18.33
                 eS    14 53.76
GOL     2.89  97 ePn   14 14.57   0.7
                 ePg   14 16.36
                 eS    14 47.81
ARUT    4.12 237 (P)   14 31.35   0.1
RSSD    5.48  42 eP    14 47.20  -3.4X
ALQ     5.58 157 (P)   15 22.39  30.4X
     S.D. = 0.7  on   9 of  11 obs.
-------------------------------------
%  MAY 13, 1993  16h 49m 07.72± 0.75s
   28.071 S ± 6.7km   26.906 E ± 8.3km
   DEPTH =  5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA       (584)
      ML 2.0 (PRE).

SEK     0.68 112 iPc   49 21.50   0.1
                 S     49 30.00
BLF     1.21 211 iPc   49 30.80  -0.1
                 S     49 47.00
PRY     1.24  24 eP    49 31.00  -0.4
                 S     49 47.50
FRS     2.17 219 eP    49 45.00   0.0
                 S     50 10.00
KSR     2.20 360 eP    49 46.00   0.4
                 S     50 12.50
SLR     2.63  28 e(P)  49 52.50   0.8X
     S.D. = 0.4  on   5 of   6 obs.
-------------------------------------
   MAY 13, 1993  18h 04m 50.31± 0.85s
   38.874 N ± 5.8km   27.097 E ±11.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                         (366)
      ML 3.0 (ISK).

IZM     0.49 165 iPg   05 00.30   0.0
                 iSg   05 05.80
EZN     1.12 328 iPn   05 11.50   0.2
CIN     1.49 148 ePg   05 19.00   1.9X
                 iSg   05 37.00
KGT     1.58   6 ePn   05 18.40   0.0
EDC     1.59  22 iPn   05 18.00  -0.5
BNT     1.61  23 ePn   05 18.50  -0.3
KCT     1.68  35 iPn   05 20.50   0.6
YLV     2.44  45 ePn   05 31.00   0.2
     S.D. = 0.4  on   7 of   8 obs.
-------------------------------------
   MAY 13, 1993  18h 06m 21.34± 0.71s
   38.896 N ± 4.5km   27.107 E ±10.1km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                         (366)
      ML 3.2 (ISK).

IZM     0.51 166 iPg   06 31.30  -0.4
                 iSg   06 37.80
EZN     1.11 327 iPn   06 42.00  -0.1
CIN     1.51 149 ePn   06 49.00   0.6
                 iSg   07 08.00
KGT     1.56   6 ePn   06 49.40   0.3
EDC     1.56  22 iPn   06 49.00  -0.2
BNT     1.59  23 iPn   06 49.50   0.0
KCT     1.66  35 iPn   06 50.80   0.2
YLV     2.42  46 ePn   07 01.00  -0.6
CTT     2.47  24 ePn   07 02.50   0.3
     S.D. = 0.4  on   9 of   9 obs.
-------------------------------------
?  MAY 13, 1993  18h 13m 35.56± 1.29s
   44.398 N ± 6.4km   7.395 E ±15.5km
   DEPTH =  5.0km  (geophysicist)
 NORTHERN ITALY                 (545)
      ML 1.3 (GEN).

STV     0.16 198 P     13 38.82  -0.1
                 S     13 40.67
ENR     0.17 174 P     13 39.28   0.1
                 S     13 41.45
PZZ     0.24 297 P     13 40.47   0.1
                 S     13 43.78
BHB     0.45 348 P     13 44.59  -0.1
                 S     13 50.49
     S.D. = 0.2  on   4 of   4 obs.
-------------------------------------
   MAY 13, 1993  18h 20m 49.72± 0.26s
   14.400 N ± 4.1km   40.186 E ± 4.0km
   DEPTH =  19.3km  (  4 depth phases)
   4.9mb ( 59 obs.)  4.7Msz (  1 obs.)
 ETHIOPIA                       (558)
      MD 5.3 (ARO).

DAF     3.59 140 ePd   21 44.85  -0.9
KSU     3.61 142 ePd   21 45.20  -0.8
SGH     3.79 141 ePd   21 47.47  -1.1
ARO     3.86 137 ePd   21 48.55  -0.9
                 S     22 50.00
GBR     3.92 145 ePd   21 49.69  -0.6
ATA     4.15 134 ePd   21 54.29   0.7
DHJN    4.54  44 iPc   21 59.00  -0.4
ABHA    4.55  32 eP    21 57.33  -2.2
AAE     5.52 195 Pn    22 14.80   1.6
MJMA   12.36  22 eP    23 45.33  -2.3
DHR    15.07  37 eP    24 25.00   1.7
MBH    16.06 343 eP    24 37.40   1.2
YTIR   17.50 345 eP    24 53.70  -0.7
HRI    19.22 349 eP    25 15.20  -0.3
BHL    19.85 349 P     25 24.00   1.4
                 S     29 16.00
CSS    21.39 344 eP    25 38.50   0.1
TAB    24.19  12 iP-   26 09.00   2.8
GRS    25.58  11 eP    26 21.00   1.6
        1.3s     60.00nm          5.1mb
     Z  11s      0.56um          4.3MszX
ERE    25.96   8 iP    26 24.00   1.1
     Z  13s      0.60um          4.3MszX
SHE    27.16  14 eP    26 32.00  -1.7
        0.6s     45.00nm          5.3mb
     Z  12s      1.50um          4.8MszX
     N  12s      3.00um
     E  12s      3.20um
BAK    27.24  16 eP    26 36.00   1.5
     N  12s      2.58um
MTA    27.49   7 iP    26 37.60   0.8
ASH    28.45  31 eP    26 46.00   0.5
KAT    28.48  27 eP+   26 46.00   0.3
     Z  11s      0.50um          4.4MszX
     N  11s      0.40um
     E  11s      0.60um
                  i    27 40.00 279kmX
                 ePPP  27 54.00
                  e    33 02.00
                 eSS   33 16.00
ALN    29.14 338 eP    26 52.65   1.0
OUE    29.22  53 eP    26 55.50   2.7
PAIG   29.26 333 eP    27 04.16  11.4X
OUR    29.47 334 eP    26 55.17   0.6
KIV    29.53   4 ePd   26 55.70   0.4
        1.3s     51.00nm          5.2mb
```

13d 18h

	Z	13s		0.30um			4.1MszX	WET		41.26	333	iPc	28	34.90	-0.3	GRR		47.83	324	eP	29	26.10	-1.9
				e	30	01.30				1.4s		28.00nm			4.8mb			1.0s		9.60nm			4.8mb
PYA		29.63	4	eP	26	57.00	0.9	FUR		41.28	331	iPc	28	35.60	0.2	UPP		48.32	345	iP	29	30.20	-1.4
SOH		30.14	334	eP	27	03.60	2.9			1.1s		35.00nm			5.0mb	KAF		48.67	351	eP	29	33.80	-0.5
KNT		30.61	334	eP	27	04.44	-0.4	MOS		41.30	358	iPc	28	36.00	0.6			0.6s		4.20nm			4.7mb
GRG		30.66	333	eP	27	08.82	3.6X			1.5s		160.00nm			5.5mb	NB2		51.06	342	P	29	51.60	-1.1
SKO		31.91	333	iPc	27	16.30	0.1					e	30	17.00	571kmX			1.3s		4.30nm			4.2mb
		1.4s		61.00nm			5.3mb	LPG		41.89	325	eP	28	39.20	-1.6	KMI		59.39	69	eP	30	53.00	-0.9
ISR		32.75	342	eP	27	23.00	-0.5			1.0s		16.20nm			4.7mb					pP	30	59.00	20km
MLR		33.25	342	iPc	27	30.00	2.0	LPL		41.91	325	eP	28	39.30	-1.6	LZH		60.45	57	Pc	31	01.00	0.1
CMP		33.33	340	ePc	27	29.00	0.4			1.2s		30.65nm			4.9mb			2.0s		47.00nm			5.3mb
VRI		33.36	343	eP	27	29.00	0.2	BRG		42.11	335	iP	28	41.20	-0.9		Z	23s		0.71um			4.7MszX
CVO		33.48	342	eP	27	29.50	-0.3			1.2s		30.00nm			4.9mb		E	12s		0.27um			
MGR		33.49	325	P	27	30.20	0.2	GRF		42.40	332	ePd	28	43.50	-1.0					pP	31	07.00	20km
KIS		33.87	346	eP	27	32.00	-1.1			1.0s		21.00nm			4.8mb					i	31	22.50	
GZR		34.22	338	iPd	27	36.50	0.2		Z	23s		0.10um			3.6MszX	MOY		60.81	38	eP	31	04.00	1.2
AZI		35.92	325	P	27	52.40	1.6	BBS		42.70	327	P	28	46.93	-0.1	ZAK		61.93	40	eP	31	11.00	0.6
GBA		36.13	87	P	27	53.00	0.2	FEL		42.70	328	P	28	46.93	-0.2			2.0s		35.00nm			5.2mb
BUL		36.16	199	eP	27	43.20	-10.0X	CLL		42.83	335	eP	28	47.00	-1.0		Z	16s		0.40um			4.7MszX
UZD		36.85	335	eP	27	58.00	-0.5			1.5s		31 00nm			4.8mb		E	19s		0.52um			
HYB		36.98	80	eP	28	01.00	1.0	MOX		42.91	333	iPc	28	48.50	-0.2					e	43	45.00	
ASS		37.07	326	P	28	00.10	-0.4			1.6s		35.00nm			4.8mb	IRK		62.95	38	ePd	31	16.00	-1.2
NDI		37.09	61	iPc	28	03.00	2.2					e	28	53.80	18km			1.5s		25.00nm			5.1mb
				iPgc	29	03.70		LOMF		42.98	327	P	28	49.49	0.0		Z	15s		0.34um			4.6MszX
UZH		37.19	340	ePc	28	01.70	0.4	MOF		43.14	328	P	28	50.77	0.1		E	16s		0.34um			
		1.5s		52.00nm			5.1mb	PRZ		43.16	42	eP	28	42.50	-8.5X	CIT		68.58	40	eP	31	54.20	0.8
ARV		37.21	327	P	28	01.40	-0.2	BSF		43.30	327	P	28	51.87	-0.2	DAG		69.17	348	eP	31	51.40	-5.2X
ZAG		37.37	332	eP	28	03.70	0.8	ECH		43.36	328	P	28	52.21	-0.2			1.1s		7.59nm			4.8mb
BUD		37.39	336	eP	28	03.00	0.0	GKN		43.36	64	P	28	53.40	0.5	BOD		69.41	33	eP	31	55.30	-3.0
PTJ		37.44	332	eP	28	04.10	0.5	WLS		43.38	328	P	28	52.38	-0.3			1.3s		38.00nm			5.4mb
SRO		37.94	336	eP	28	08.20	0.6	HOFF		43.42	329	P	28	53.22	0.4	YAK		77.19	29	eP	32	42.00	-1.7
				e	00	12.50		CDF		43.42	328	P	28	52.80	-0.2			1.3s		40.00nm			5.3mb
CEY		38.04	330	e(P)	28	08.50	-0.1	HAU		43.65	327	eP	28	53.80	-0.9	FVM		110.30	320	ePKP	39	27.22	4.7X
LJU		38.21	331	e(P)	28	10.50	0.5			1.2s		24.70nm			4.9mb			S.D. = 1.1		on 139 of 148 obs.			
TRI		38.34	330	P	28	12.20	1.2	DMN		43.71	65	P	28	55.00	-0.9								
SPC		38.36	339	eP	28	13.10	1.7	KKN		43.89	65	P	28	56.60	-0.7	?	MAY	13,	1993	18h 41m	34.14±	2.82s	
VOY		38.51	330	ePd	28	13.00	0.4			1.4s		83.00nm			5.4mb		20.617 S ±22.1km			178.537 W ±16.9km			
				e	29	41.00	476kmX	VITF		43.97	327	P	28	56.97	-0.4		DEPTH = 652.7 ± 38.4 km						
PGF		38.82	322	eP	28	14.70	-0.6	PKI		43.98	65	P	28	57.40	-0.7		4.5mb (10 obs.)						
		1.3s		28.15nm			4.8mb	SMF		44.21	324	eP	28	57.90	-1.4	FIJI ISLANDS REGION						(181)
RBL		38.96	330	P	28	17.30	1.0			1.0s		10.00nm			4.6mb								
OJC		39.39	339	iP	28	20.00	0.2	ARU		44.23	15	iPd	29	00.00	0.7	DZM		14.07	261	iPc	44	34.20	1.4
FVI		39.45	330	P	28	21.00	0.7			1.5s		10.00nm			4.4mb	OUZ		16.11	204	P	44	55.20	3.4X
KBA		39.53	331	iPc	28	21.90	0.7	CAF		44.32	321	eP	29	00.00	-0.3	KUZ		16.84	196	eP	45	00.60	2.1
		1.2s		15.70nm			4.6mb			1.4s		25.25nm			4.9mb	WLZ		17.93	195	eP	45	10.60	2.0
				i	28	35.00	49kmX	LBF		44.32	325	eP	28	58.90	-1.4	URZ		17.98	191	eP	45	07.50	-1.5
CTI		39.63	329	P	28	22.60	0.7			1.0s		32.80nm			5.1mb	NOZ		18.18	189	eP	45	10.80	-0.1
BHG		40.21	331	eP	28	26.70	0.1	GUN		44.43	65	P	29	01.00	-0.8	MRW		21.34	194	P	45	38.50	-1.0
WTTA		40.48	330	iPc	28	29.30	0.3			1.4s		105.00nm			5.5mb	THZ		22.29	197	eP	45	48.30	0.1
		1.4s		64.10nm			5.1mb	EPF		44.47	318	eP	29	01.60	0.0	DSZ		22.60	199	eP	45	50.60	-0.2
				i	28	44.40	59kmX			1.3s		13.00nm			4.6mb	LTZ		23.41	197	eP	45	56.70	-1.3
OGA		40.50	329	iPc	28	30.40	1.1	LOR		44.55	325	eP	29	00.80	-1.3	CTA		32.98	265	iPd	47	19.50	-0.5
		1.4s		63.00nm			5.1mb			1.0s		30.40nm			5.1mb			0.9s		8.40nm			4.4mb
SBF		40.53	323	eP	28	28.50	-0.8	AVF		44.57	324	eP	29	00.70	-1.5	ASPA		44.00	257	iPd	48	48.30	-0.3
		1.2s		23.20nm			4.8mb			0.9s		10.95nm			4.7mb			0.9s		20.60nm			4.6mb
WATA		40.56	330	iPc	28	29.80	0.2	SSF		44.63	324	eP	29	01.20	-1.5					eS	54	35.50	
MNK		40.64	349	eP	28	34.00	4.0X			1.0s		12.80nm			4.8mb	WB2		44.07	262	iPd	48	48.10	-1.0
SOTA		40.66	330	iPc	28	30.70	0.3	MAF		44.70	323	eP	29	02.50	-0.8			0.2s		31.30nm			5.4mb
		1.3s		32.70nm			4.9mb			1.4s		14.80nm			4.7mb	WRA		44.08	262	P	48	50.20	1.0
				i	28	40.50	33kmX	BGF		44.73	324	eP	29	02.70	-0.8			0.8s		4.70nm			4.0mb
GEC2		40.67	333	e(P)	28	30.10	-0.4	LPO		44.73	320	eP	29	03.40	-0.2	WARB		50.32	253	eP	49	33.10	-2.7
		1.0s		19.20nm			4.8mb			1.2s		20.55nm			4.9mb			0.4s		4.00nm			4.1mb
GEC2		40.67	333	e(P)	28	38.20	7.7X	KIC		44.84	265	P	29	07.40	2.6	MBL		57.24	258	iPc	50	23.00	-1.3
		1.1s		12.70nm			4.6mb	RJF		44.85	321	eP	29	04.00	-0.5			0.4s		10.00nm			4.4mb
LMR		40.77	322	eP	28	30.40	-0.8			1.3s		23.85nm			4.9mb	NANU		60.88	255	eP	50	48.70	0.4
		1.5s		38.15nm			4.9mb	TIC		45.04	265	P	29	09.00	2.5	CP2		84.30	12	ePc	52	59.06	-1.2
MOTA		40.79	330	iPc	28	31.50	-0.1	SVE		45.11	16	iPd	29	07.00	0.6	SRU		86.97	46	eP	53	13.17	-0.3
		1.5s		51.70nm			5.0mb			2.0s		100.00nm			5.4mb	FBA		88.46	13	eP	53	18.12	-1.4
FRF		40.81	322	eP	28	30.90	-0.7		Z	17s		0.50um			4.5MszX			0.8s		9.74nm			4.6mb
		1.2s		23.20nm			4.8mb		N	17s		0.40um				KMI		88.95	297	eP	53	25.00	2.0
LRG		40.92	322	eP	28	32.00	-0.5		E	17s		0.50um						1.2s		20.00nm			4.8mb
		1.4s		27.00nm			4.8mb					e	30	47.00	545kmX	CHTO		89.81	290	eP	53	27.50	0.8
KHC		40.94	333	P	28	32.00	-0.6	LFF		45.14	320	eP	29	06.40	-0.4			0.7s		6.51nm			4.6mb
		1.3s		21.10nm			4.7mb	LIC		45.15	264	P	29	09.60	2.3	YKA		96.83	25	eP	53	56.90	-0.8
				e	28	38.00	20km	LSF		45.33	322	eP	29	07.50	-0.8			0.6s		0.50nm			3.9mb
				e	29	00.00				1.2s		20 55nm			4.9mb	NB2		139.04	353	PKP	59	41.90	-7.6X
				e	30	17.50		ENN		45.62	330	eP	29	10.00	-0.4			0.7s		1.70nm			
FRU		40.95	39	eP	28	35.00	2.2			1.1s		14.50nm			4.8mb	EKA		145.16	5	PKP	00	04.00	3.8X
		2.5s		80.00nm			5.0mb	WTS		46.01	332	eP	29	13.00	-0.5			1.0s		11.50nm			
	Z	20s		1.00um			4.7Msz			1.0s		12.80nm			4.8mb	DMU		146.16	9	ePKP	00	04.40	2.5
	E	20s		1.50um				MFF		46.50	322	eP	29	16.30	-1.2	DLF		146.80	9	ePKP	00	06.30	3.4X
				e	30	15.00	564kmX			1.2s		9 80nm			4.7mb	HRI		147.10	300	iPKPd	00	08.60	4.4X
				e	30	36.00		WIT		46.63	333	eP	29	19.00	0.6	WIT		147.61	354	ePKP	00	09.50	5.3X
VAI		41.01	326	P	28	33.00	-0.1	NUR		47.41	350	eP	29	20.00	-4.5X	KSP		147.65	342	iPKP	00	08.70	4.3X
KSP		41.17	337	eP	28	34.20	-0.2			0.8s		18 10nm			5.2mb	JVI		147.72	297	iPKPd	00	10.00	4.8X
PRU		41.18	335	iPd	28	33.50	-1.0	LPF		47.75	323	eP	29	25.60	-1.8	SPC		147.78	337	ePKP	00	10.50	5.6X
		1.4s		32.10nm			4.9mb			1.4s		27 00nm			5.1mb	CLL		148.06	346	iPKP	00	09.90	4.9X

	0.8s	26.00nm				
BRG	148.24	345	iPKPd	00	10.00	4.7X
	0.8s	10.00nm				
			i	00	15.00	
WTS	148.41	354	iPKPc	00	11.00	5.5X
	0.8s	16.70nm				
			e	00	16.00	
CSS	148.55	304	ePKP	00	11.50	5.2X
RMN	148.60	295	iPKPd	00	12.20	5.6X
PRU	148.91	344	PKPd	00	11.90	5.6X
	0.9s	13.10nm				
			e	00	18.00	
MOX	148.98	347	ePKP	00	11.90	5.5X
	1.4s	11.00nm				
			e	00	17.70	
ENN	149 71	354	ePKP	00	14.00	6.5X
	0.9s	7.50nm				
			e	00	21.00	
ZST	149 73	339	ePKP	00	13.40	5.8X
			e	00	21.80	
KHC	149.94	344	PKP	00	09.50	1.5
	1.0s	7.00nm				
			i	00	15.00	
			e	00	23.20	
GRF	149.97	347	ePKPd	00	14.90	6.9X
			e	00	23.00	
GEC2	150.17	344	PKP	00	14.90	6.5X
	0.8s	5.49nm				
			e	00	23.00	
LDF	152.06	2	ePKP	00	29.90	18.9X
	0.5s	3.45nm				
GRR	152.23	3	ePKP	00	29.90	18.6X
BSF	152.51	352	ePKP	00	32.50	20.7X
	0.7s	3.00nm				
SSF	153.57	357	ePKP	00	37.10	24.0X
	0.8s	2.95nm				

S.D. = 1.5 on 24 of 48 obs.

? MAY 13, 1993 19h 16m 56.79± 1.48s
38 138 N ±24.4km 28.791 E ±22.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

KHL	0.61	72	iPg	17	08.20	-0.9
			eSg	17	18.70	
CIN	0.77	226	ePg	17	11.00	-0.9
			iSg	17	20.00	
YER	1.08	202	iPn	17	18.00	0.9
ALT	1.38	48	ePn	17	23.00	0.8

S.D. = 1.7 on 4 of 4 obs.

& MAY 13, 1993 19h 32m 00.05s
64.471 N 146.978 W
DEPTH = 9.1km
3.2mb (1 obs.)
CENTRAL ALASKA (1)
<AEIC>. ML 3.5 (AEIC), 3.5 (PMR). Felt strongly at Salcha and Alyeska Pump Station Number 8.

HDA	0.07	171	P	32	02.00	-0.3
CCB	0.40	297	P	32	07.60	-0.6
WRH	0.48	271	P	32	09.30	-0.5
GLM	0.55	341	P	32	10.50	-0.6
FBA	0.56	321	iPc	32	10.39	-0 9
MDM	0.73	313	iPc	32	13.83	-0 6
NEA	0.91	278	P	32	17.10	-0.5
MCK	1.14	230	eP	32	21.60	0.2
			eS	32	38.03	
THY	1.19	152	P	32	22.00	-0.3
PRP	1.22	30	P	32	22.50	-0.4
RND	1.35	219	P	32	25.20	0.1
			S	32	43.50	
PAX	1.65	155	ePc	32	29.50	0.1
			eS	32	52.25	
MLY	1.71	291	iPc	32	29.11	-1.1
			eS	32	53.39	
TRF	1.78	236	P	32	31.10	-0.3
			S	32	57.00	
HUR	1.91	219	P	32	34.00	0.9
SDG	2.06	161	P	32	36.20	1.0
TMW	2.10	121	eP	32	35.58	-0.3
FYU	2.23	18	P	32	36.70	-0.9
			S	33	09.00	
TZL	2.54	163	eP	32	41.58	-0.4
SCM	2.65	184	P	32	45.50	1.7
SML	2.74	194	P	32	46.50	1.4
GHO	2.85	199	P	32	47.00	0.4
KLU	3.03	170	eP	32	51.34	2.3
PLRM	3.05	200	P	32	53.50	4.2
PMR	3.05	200	ePn	32	46.17	-3.1
			eS	33	32.77	
PWA	3.12	206	P	32	51.20	0.9
SKT	3.24	222	P	32	51.90	-0.1
IMA	3.24	303	ePnc	32	50.18	-2.0
			ePg	33	00.00	
			eS	33	40.25	
VLZ	3.37	175	eP	32	54.53	0.8
GLB	3.37	153	eP	32	56.55	2.7
PMS	3.45	201	P	32	57.70	2.7
SUA	3.47	211	eP	32	56.78	1.3
PTE	3.74	196	eP	33	01.66	2.5
CVA	3.98	171	eP	33	03.04	0.6
CRP	3.99	219	eP	33	01.93	-0.9
			eS	34	03.85	
CPAM	4.00	219	eP	33	04.46	1.6
CP2	4.02	219	eP	33	01.24	-2.0
			eS	34	01.93	
CKN	4.04	219	eP	33	05.84	2.5
SPU	4.04	217	eP	33	04.29	0.9
BALM	4.05	146	eP	33	05.65	2.0
BGL	4.06	220	eP	33	04.55	0.8
CKT	4.06	219	eP	33	05.24	1.5
SGAM	4.07	168	eP	33	05.58	1.8
HIN	4.10	177	eP	33	04.08	-0.1
CKL	4.10	219	eP	33	05.68	1.3
CROM	4.13	153	eP	33	06.29	1.5
MPA	4.15	197	eP	33	06.72	1.9
TGL	4.19	151	eP	33	06.86	1.2
RAGM	4.24	164	eP	33	08.89	2.7
SLKM	4.25	202	(Pn)	33	04.84	-1.6
			eS	34	13.34	
TTA	4.31	253	ePn	33	06.36	-0.9
			ePg	33	19.02	
			eS	34	13.55	
DFR	4.70	217	eP	33	14.75	1.8
NCT	4.79	218	eP	33	15.89	1.7
RDW	4.83	217	eP	33	16.90	2.1
SVW	5.21	234	ePn	33	18.20	-1.7
INK	6.63	49	P	33	39.00	-0.9
	0.9s	4.00nm				4.4mb X
YKA	14.50	83	eP	35	34.70	7.6
	0.5s	0.30nm				3.2mb

57 obs. associated

% MAY 13, 1993 20h 08m 59.96± 0.81s
44.553 N ± 6.0km 7.275 E ± 8.4km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.6 (GEN).

PZZ	0.13	249	P	09	03.36	0.1
			S	09	05.33	
BHB	0.29	358	P	09	05.97	-0.1
			S	09	09.95	
STV	0.31	173	P	09	06.43	0.0
			S	09	10.36	
ENR	0.34	162	P	09	06.98	-0.1
			S	09	11.51	
ROB	0.50	121	P	09	10.18	0.1
			S	09	17.09	

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

? MAY 13, 1993 20h 19m 05.78± 1.00s
19.620 N ±16.2km 94.642 E ±11.7km
DEPTH = 33.0km (normal)
MYANMAR (296)

CHTO	4.14	100	iPnc	20	07.00	-1.4
			eSg	24	01.80	
KHT	6.11	141	eP	20	37.00	0.8
KMI	9.28	52	Pd	21	21.50	0.9
	1.4s	30.00nm				5.3mb
GUN	11.51	317	P	21	50.40	-0.8
PKI	11.58	315	P	21	52.00	-0.2
DMN	11.81	314	P	21	55.60	0.4
KKN	11.81	315	P	21	57.20	2.0
GKN	12.38	314	P	22	01.20	-1.6

S.D. = 1.5 on 8 of 8 obs.

& MAY 13, 1993 20h 27m 25.92s
36.214 N 120.232 W
DEPTH = 8.2km
CENTRAL CALIFORNIA (39)
<GM-P>. MD 3.0 (GM). ML 3.0 (PAS).

CTM	0.29	197	P	27	32.97	0 9
PSRM	0.36	186	P	27	34.31	1.1
PSTM	0.36	218	P	27	34.77	1.5
PHAM	0.40	200	ePc	27	35.09	1.0
PMRM	0.43	180	P	27	35.79	1.2
PMCM	0.50	193	P	27	36.86	0.8
LRC	0.66	273	P	27	39.38	0.3
LRV	0.67	289	P	27	40.80	1.4
PMGM	0.82	197	P	27	41.74	-0.2
EKH	0.88	301	P	27	43.64	0.6
PAPM	0.96	252	P	27	44.52	0.0
BCH	1.03	173	eP	27	45.34	-0.4
BCWM	1.08	275	P	27	46.97	0.4
BVYM	1.09	300	P	27	46.97	0.3
SAO	1.12	300	eP	27	46.95	-0.2
BSRM	1.13	294	P	27	47.50	0.2
FRP	1.15	298	P	27	47.86	0.3
SCCM	1.27	178	P	27	49.88	0 2
DIL	1.30	299	P	27	50.41	0.3
MARC	1.41	149	P	27	51.27	-0.6
ISA	1.53	111	eP	27	52.40	-1.2
ARN	1.54	318	ePn	27	54.10	0.4
ABL	1.59	148	eP	27	52.58	-2.0
			eS	28	11.89	
BHPR	1.77	52	P	27	57.70	0.4
CLKR	1.78	39	P	27	57.84	0.4
MEMM	1.78	35	eP	27	57.71	0.6
			eS	28	20.85	
CMB	1.82	356	eP	27	57.33	-0.5
CASR	1.91	44	P	28	00.70	1.4
BCNR	2.32	41	ePn	28	05.90	0.6
			eS	28	36.74	
SSK	2.88	133	ePn	28	12.81	-0.3
GSC	2.93	107	ePn	28	12.57	-1.2
TNP	3.05	51	ePn	28	14.50	-0.9
TPNV	3.29	76	(Pn)	28	18.21	-0.7

33 obs. associated

? MAY 13, 1993 21h 22m 12.69± 2.60s
30.732 S ±21.9km 68.931 W ±20.1km
DEPTH = 33.0km (normal)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.72	147	iPc	22	26.60	0.2
			(S)	22	37.80	
RTCB	0.76	172	iPd	22	26.80	-0.3
			S	22	37.50	
RTBS	1.03	206	e(P)d	22	30.90	0.1
RTPR	2.13	79	e(P)d	22	46.60	0.0

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

? MAY 13, 1993 21h 32m 59.27± 0.67s
61.025 N ±10.0km 78.111 E ± 9.1km
DEPTH = 33.0km (normal)
4.0mb (6 obs.)
NORTHWESTERN SIBERIA, RUSSIA (725)

NVS	6.77	154	iPd	34	59.00	20.2X
ELT	8.96	147	eP	35	07.80	-1.5
			e	36	50.00	
SVE	9.96	253	eP	35	23.00	-0.1
Z	14s	0.50um				
N	13s	0.50um				
E	13s	0.50um				
ARU	11.13	254	eP	35	35.00	-4.1X
UER	12.94	130	iPc	36	03.80	0.5
	1.0s	20.00nm				5.1mb X
MOY	15.67	116	eP	36	40.00	1.1
ZAK	17.61	116	eP	37	06.40	3.0X
	1.3s	13.00nm				3.9mb
Z	14s	0.78um				5.1Msz
N	14s	0.57um				
E	14s	0.77um				
			eS	40	22.00	
FRU	18.34	188	eP	37	14.00	1.5
BOD	18.46	84	eP	37	11.10	-2.7
PRZ	18.57	179	eP	37	18.50	3.1X
MOS	21.60	274	eP	37	52.00	4.2X
Z	13s	1.10um				4.4MszX
			e	38	11.00	
TIK	22.17	41	eP	37	54.00	0.6
	1.0s	12.00nm				4.3mb
Z	14s	0.50um				4.1MszX

13d 21h

		e	38 15.00			
		eS	41 55.00			
OBN	22.43	273 eP	38 00.00	3.9X		
Z	16s	0.60um		4.1MszX		
N	16s	0.50um				
E	15s	0.40um				
		(S)	42 03.00			
YAK	24.10	65 eP	38 25.00	12.7X		
	1.0s	30.00nm				
		e	38 47.00			
KAF	24.16	295 eP	38 12.70	-0.1		
	0.4s	0.80nm		3.6mb		
NUR	25.52	293 eP	38 24.00	-1.8		
	0.8s	3.20nm		4.0mb		
GKN	33.31	169 P	39 39.20	3.2X		
GUN	33.52	167 P	39 40.60	2.6X		
KKN	33.58	168 P	39 42.40	4.0X		
DMN	33.74	169 P	39 43.80	3.9X		
PKI	33.81	168 P	39 43.60	3.1X		
MBC	42.53	6 eP	40 53.50	1.0		
IMA	47.58	26 eP	41 34.80	1.7		
	1.0s	3.25nm		4.3mb		
YKA	56.42	7 eP	42 39.00	-0.3		
	0.8s	1.00nm		3.9mb		
S.D. = 1.5		on 12 of 24 obs.				

MAY 13, 1993 21h 33m 05.04± 0.55s
38.357 N ± 5.4km 22.101 E ± 4.4km
DEPTH = 10.0km (geophysicist)
4.0mb (9 obs.)
GREECE (364)
MD 3.6 (ATH). ML 3.5 (TIR).

AGG	0.69	15 ePg	33 18.29	-0.4		
VLS	1.20	262 ePn	33 24.60	-2.9		
		eSn	33 43.00			
ATH	1.33	106 ePn	33 30.50	0.9		
VLI	1.77	158 ePn	33 36.20	0 4		
LIT	1.77	10 iPb	33 35.25	-0.6		
		eSb	33 59.18			
IGT	1.81	311 ePn	33 38.70	2.2		
KZN	1.96	353 ePn	33 40.10	1.3		
PAIG	1.99	38 ePb	33 37.46	-1.6		
SRN	2.23	314 ePn	33 42.80	0.2		
		iSn	34 08.80			
KEK	2.25	308 ePn	33 43.20	0.4		
THE	2.37	16 ePn	33 43.22	-1.3		
		eSn	34 15.22			
OUR	2.45	36 ePn	33 44.53	-1.2		
FNA	2.49	347 ePn	33 45.82	-0.4		
TPE	2.52	321 ePn	33 51.50	4.8X		
GRG	2.61	5 ePn	33 47.26	-0 7		
SOH	2.64	21 ePn	33 47.66	-0.9		
KNT	2.87	12 ePn	33 51.18	-0.5		
		eSn	34 26.74			
OHR	2.93	340 iPn	33 54.20	1 7		
		i	33 58.70			
		i	34 31.30			
		i	34 37.50			
		Lg	34 47.00			
VAY	2.98	7 iPn	33 52.50	-0.7		
SRS	2.99	22 ePn	33 52.22	-1.1		
		iSn	34 30.74			
VAM	3.39	150 ePn	34 00.10	1.0		
TIR	3.45	331 ePn	34 04.20	4.4X		
		iSn	34 52.00			
PHP	3.56	340 ePn	34 03.70	2.3		
		iSn	34 41.70			
SKO	3.65	352 ePn	34 03.60	0.9		
		iSn	34 42.50			
ROI	4.48	287 P	34 13.30	-1.2		
TDS	4 67	288 P	34 18.30	1.0		
CSI	4.74	289 P	34 17.40	-0.9		
CZI	4.74	282 P	34 17.30	-0.9		
MGR	5.38	291 P	34 26.70	-0.6		
SGO	5.70	295 P	34 16.60	-15.1X		
		eSg	34 31.90			
SDI	7.18	300 P	34 51.20	-1.5		
MLR	7.68	21 eP	35 01.50	1.8		
CVO	8.05	21 eP	35 01.50	-3.3X		
VRI	8.25	23 eP	35 07.00	-0.6		
ARV	8.63	309 P	35 09.00	-3.8X		
VBY	8.77	327 e(P)	35 10.50	-4.3X		
		e(S)	36 53.50			
CEY	9.32	325 eP	35 18.00	-4.4X		
		e(S)	37 03.20			
VOY	9.79	324 eP	35 25.20	-3.7X		
		eS	37 12.50			
LPG	13.46	307 eP	36 26.00	7.2X		
	0.8s	5.50nm		4.6mb		
LPL	13.48	307 eP	36 25.70	6.7X		
	0.7s	3.00nm		4.4mb		
HAU	14.98	315 eP	36 40.20	1.8		
SMF	15.78	307 eP	36 50.00	1.1		
	0.8s	7.50nm		3.9mb		
LBF	15.85	309 eP	36 51.30	1.6		
	1.0s	7.80nm		3.8mb		
AVF	16.15	307 eP	36 53.30	-0.2		
	1.2s	10.70nm		3.9mb		
SSF	16.17	308 eP	36 53.20	-0.6		
	1.0s	11.60nm		4.0mb		
BGF	16.37	306 eP	36 56.10	-0.3		
	1.0s	13.40nm		4.0mb		
SLL	22.82	349 eP	38 05.60	-3.4X		
	0.6s	2.20nm		3.9mb		
EKA	24.02	323 P	38 21.00	0.4		
	0.9s	7.20nm		4.3mb		
S.D. = 1.3		on 37 of 48 obs.				

? MAY 13, 1993 21h 53m 46.39± 9.34s
39.864 N ±64.2km 23.701 E ±20.6km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

PAIG	0.06	345 ePg	53 48.46	-0.2		
		eSg	53 54.78			
OUR	0.52	25 iPg	53 56.89	0.0		
		eSg	54 10.38			
THE	0.95	324 ePb	54 04.50	0.0		
SOH	0.99	345 ePb	54 05.00	-0.2		
		eSb	54 21.66			
SRS	1.25	356 ePb	54 09.94	0.2		
KNT	1.43	335 ePb	54 12.50	0.1		
S.D. = 0.2		on 6 of 6 obs.				

? MAY 13, 1993 22h 12m 39.83± 4.68s
39.661 N ±34.9km 23.478 E ±11.6km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

PAIG	0.31	30 iPg	12 46.38	0.2		
		eSg	12 52.74			
OUR	0.78	30 iPg	12 54.78	-0.1		
		eSg	13 05.65			
LIT	0.88	300 ePg	12 56.62	-0.1		
		eSg	13 09.50			
THE	1.05	338 ePg	12 59.70	0.2		
		eSg	13 14.86			
SOH	1.16	355 ePb	13 01.26	-0.3		
KNT	1.56	344 iPb	13 07.94	0.3		
S.D. = 0.3		on 6 of 6 obs.				

? MAY 13, 1993 22h 14m 04.39± 5.24s
39.514 N ±37.7km 23.499 E ±14.2km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

PAIG	0.44	19 iPg	14 13.42	0.2		
		eSg	14 19.82			
OUR	0.90	24 iPg	14 21.78	0.2		
		eSg	14 34.70			
LIT	0.97	307 iPg	14 23.26	0.4		
THE	1.19	340 iPb	14 26.70	0.2		
		eSb	14 41.10			
SOH	1.31	355 ePb	14 28.34	-0.3		
		eSb	14 46.78			
SRS	1.60	3 ePb	14 32.58	-0.2		
GRG	1.67	330 ePb	14 33.14	-0.7		
KNT	1.71	345 iPb	14 34.74	0.4		
S.D. = 0.4		on 8 of 8 obs.				

MAY 13, 1993 22h 16m 43.31± 0.86s
27.614 S ± 4.9km 70.966 W ±10.0km
DEPTH = 37.9 ± 9.3 km
4.1mb (2 obs.)
NEAR COAST OF NORTHERN CHILE (122)

RTRS	2.87	153 ePc	17 29.20	1.5		
ANT	3.92	7 eP	17 44.50	1.8		
RTBS	4.24	162 ePd	17 48.30	1.1		
RTCB	4.30	154 ePc	17 48.50	0.5		
RTLL	4.29	150 ePd	17 48.50	0.5		
ZON	4.40	154 eP	17 49.70	0.3		
CFA	4.63	150 ePc	17 52.50	-0.3		
		(S)	18 49.50			
CYA	4.65	101 eP	17 54.80	1.8		
		S	18 48.30			
FSA	4.68	72 iP	18 00.00	6.6X		
RTPR	4.73	126 ePc	17 54.50	0.3		
PEL	5.52	178 iP	18 02.80	-2.4		
		iS	19 10.00			
MDZ	5.56	161 eP	18 06.10	0.2		
		i	18 13.40			
SLA	5.69	61 ePd	18 13.00	5.2X		
MRA	6.61	138 ePc	18 18.90	-1.6		
		S	19 23.00			
HJA	6.67	50 ePd	18 26.00	4.6X		
		S	18 42.00			
TCA	6.68	125 ePc	18 20.00	-1.7		
		S	19 31.50			
RFA	7.45	164 eP	18 28.80	-3.6X		
		i	19 01.00			
CNCB	11.10	15 P	19 23.50	0.3		
ARE	11.11	357 eP	19 22.00	-1.1		
CCH	11.12	25 (P)	19 46.00	22.8X		
LPB	11.34	14 P	19 25.00	-1.4		
ZOBO	11.59	14 iPc	19 29.00	-0.9		
Z	22s	0.21um				
		LR	23 30.00			
PPD	18.68	77 eP	21 01.70	1.0		
		e	21 15.60			
VAO	22.16	83 eP	21 37.90	0.2		
		e	21 50.30			
CACB	22.79	80 eP	21 43.40	-0.5		
		e	21 45.50			
		e	21 56.00			
BAO	24.41	66 (P)	21 58.00	-1.7		
		i	22 13.80			
		i	22 38.30			
ALO	70.69	330 e(P)	27 58.90	1.4		
	1.0s	2.50nm		4.2mb		
LIC	71.94	73 P	28 05.00	-0.2		
TIC	72.16	72 P	28 06.30	-0.3		
KIC	72.25	73 P	28 07.00	-0.1		
GAC	73.08	357 eP	28 13.50	2.3X		
LMN	73.33	4 eP	28 17.00	4.3X		
JAO	81.18	357 eP	28 57.00	0.9		
FCC	88.18	348 eP	29 36.00	5.0X		
YKA	96.33	341 eP	30 08.80	0.1		
	0.7s	0.40nm		4.0mb		
WRA	126.75	210 PKP	35 45.00	-0.1		
	0.6s	1.10nm				
GBA	147.42	109 PKP	36 25.00	2.2X		
HYB	150.14	103 ePKP	36 32.50	5.4X		
S.D. = 1.2		on 28 of 38 obs.				

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* MAY 13, 1993 22h 25m 27.77± 0.72s
2.444 N ± 9.6km 126.726 E ±13.3km
DEPTH = 33.0km (normal)
4.8mb (5 obs.)
NORTHERN MOLUCCA SEA (266)

MNI	2.13	242 ePc	26 03.80	2.1		
		eS	26 29.20			
CTB	5.35	332 eP	26 50.00	2.5		
TSM	9.03	282 ePd	27 38.60	-0.3		
	0.7s	324.30nm		6.6mb X		
KKM	11.07	289 ePd	28 09.00	1.9		
MTN	15.81	164 eP	29 09.00	-0.6		
WB2	23.47	162 iPd	30 35.90	0.4		
	0.4s	49.50nm		5.4mb		
		e	34 50.00			
MBL	24.41	196 eP	30 46.00	1.5		
ASPA	26.88	165 iPd	31 07.40	-0.3		
	0.4s	17.90nm		5.0mb		
		eS	35 41.60			
WARB	28.46	180 eP	31 20.90	-1.1		
STK	36.94	159 eP	32 36.30	0 6		
	0.7s	4.70nm		4.5mb		
BJI	38.63	347 eP	32 50.00	0.3		
LZH	39.61	330 eP	32 59.00	0.8		
	1.2s	33.00nm		5.0mb		
GUN	46.48	307 P	33 52.20	-2.1		
	0.6s	30.00nm		5.4mb X		
PKI	46.71	306 P	33 54.80	-1.3		
KKN	46.91	307 P	33 55.80	-1.7		
	0.7s	19.00nm		5.2mb X		
DMN	46.97	306 P	33 56.80	-1.3		
	1.0s	31.00nm		5.3mb X		
GKN	47.52	307 P	34 00.60	-1.7		
	0.8s	19.00nm		5.2mb X		

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HYB    49.55 291 eP     34 26.00    8.0X
GBA    49.95 286 P      34 19.00   -1.9
IMA    83.55  24 ePc    37 56.18    2.4
       0.6s      1.41nm          4.3mb
OBN    88 09 325 eP     38 16.00   -0.1
     S.D. = 1.6   on  20 of  21 obs.
-------------------------------------
%  MAY  13, 1993   22h 53m 18.41± 4.86s
   33.836 S ±21.4km   70.721 W ±14.6km
   DEPTH =  80.5 ± 40.7 km
 CHILE-ARGENTINA BORDER REGION     (127)
     MD 3.5 (SAN).

CHCH    0 11 150 iP     53 30.13   -0.2
                 iS     53 39.41
TACH    0.26 315 iP     53 30.77    0.1
                 iS     53 40.07
PCH     0.28  39 iP     53 30.97    0.1
                 iS     53 40.41
LNV     0.59 258 iP     53 33.24    0.1
                 iS     53 44.11
FCH     0.62  35 iP     53 33.92    0.0
                 iS     53 45.71
PEL     0.69   2 iP     53 34.33    0.0
                 iS     53 46.49
LCCH    0.79 297 iP     53 35.26   -0.1
                 iS     53 47.66
ROCH    0.90 344 iP     53 36.60   -0.2
                 iS     53 50.92
JACH    1.16   5 iP     53 39.85    0.1
     S.D. = 0.1   on   9 of   9 obs.
-------------------------------------
?  MAY  13, 1993   23h 06m 32.00± 4.47s
   36.636 N ±46.2km    3.178 W ±11.7km
   DEPTH =  10.0km  (geophysicist)
 STRAIT OF GIBRALTAR               (385)
     mbLg 3.0 (MDD).

EGUA    0.37 302 iPgc   06 38.90   -0.7
                 eSg    06 43.60
ECOG    0 71 334 iPgd   06 45.58   -0.5
                 eSg    06 54.50
ENIJ    0.85  66 iPgd   06 48.34    0.0
                 eSg    06 59.80
ELUO    1.27 317 iPnc   06 56 81    1.2
EVIA    2.07  15 ePn    07 10.35    3.1X
                 eSn    07 36.20
     S.D. = 1.5   on   4 of   5 obs.
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?  MAY  13, 1993   23h 17m 01.05± 2.85s
   37.589 N ±17.9km   20.631 E ±25.0km
   DEPTH =  11.0 ±  5.3 km
 IONIAN SEA                        (399)
     MD 3.1 (ATH).

VLS     0.59 357 ePg    17 13.50    0.6
VLI     2.04 115 ePb    17 36.00    0.3
KEK     2.22 343 ePg    17 47.20    8.9X
KZN     2.86  18 ePn    17 49.00    1.6
LIT     2.90  29 ePg    17 49.00    1.0
FNA     3.24  10 ePg    17 53.24    0.4
OHR     3.52   2 ePn    17 56.80    0.0
THE     3.54  30 ePb    17 56.64   -0.4
GRG     3.63  22 ePb    17 58.04   -0.4
                 eSb    18 14.29
SOH     3.86  32 iPb    18 02.20    0.6
KNT     3.98  26 iPb    18 03.17   -0.1
SRS     4.20  32 ePn    18 05.80   -0.7
SKO     4.42   8 ePn    18 08.20   -1.4
     S.D. = 0.9   on  12 of  13 obs.
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?  MAY  13, 1993   23h 35m 05.73± 2.72s
   47.707 N ±25.5km    7.737 E ±10.4km
   DEPTH =  10.0km  (geophysicist)
 SWITZERLAND                       (544)
     ML 1.9 (LDG).

FEL     0.25  48 ePg    35 11.13    0.0
BSF     0.65 281 Pn     35 18.70   -0.1
                 Sg     35 28.20
CDF     0.77 337 Pg     35 20.80    0.0
                 Sg     35 32.00
HAU     0.98 288 Pg     35 24.50    0.1
                 Sg     35 37.80
     S.D. = 0.2   on   4 of   4 obs.
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   MAY  13, 1993   23h 41m 38.43± 0.16s
    55.017 N ± 3.4km  160.162 W ± 2.3km
    DEPTH =  33.2km  ( 27 depth phases)
    5.3mb ( 96 obs.)
  ALASKA PENINSULA                (12)
      Mw 5.1 (HRV). ML 5.3 (PMR). Felt
      (IV) ot Sond Point ond
      Perryville; (III) ot Chignik,
      Chignik Logoon, Cold Bay ond
      King Cove.
      CENTROID, MOMENT TENSOR    (HRV)
      Doto Used: GDSN
      L.P.B.:  9S, 10C
      Centroid Locotion:
      Origin Time        23:41:43.1 1.7
      Lot 54.89N 0.17 Lon 159.84W 0.21
      Dep  40.810.3 Holf-durotion  1.0
      Moment Tensor;   Scole 10**16 Nm
        Mrr= 2.58 0.39  Mtt=-2.22 0.42
        Mff=-0.37 0.50  Mrt= 1.94 0.95
        Mrf= 1.63 1.96  Mtf=-3.76 0.78
       Principal Axes:
        T  Val=  3.34  Plg=73  Azm=322
        N        2.58     0      232
        P       -5.92    17      142
      Best Double Couple.Mo=4.6*10**16
       NP1:Strike=232 Dip=28 Slip=  90
       NP2:       52    62        90

SDN     0.38 329 iPd    41 50.68    3.5
KDC     5.06  54 ePnc   42 52.50   -1.5
                 eS     44 09.38
MCNL    5.25  35 P      42 57.50    0.9
CDD     5.30  40 P      42 57.70    0.4
SVW     6.56  20 eP     43 15.30    0.1
CRP     7.56  31 eP     43 28.95   -0.2
SLKM    7.65  40 eP     43 28.68   -1.6
TTA     8.22  13 eP     43 37.93   -0.4
PMS     8.38  38 eP     43 38.60   -2.0X
PWA     8.56  35 eP     43 42.20   -0.8
PMR     8.78  37 (P)    43 45.49   -0.4
                 eS     45 21.29
KLU     9.91  43 eP     43 58.62   -3.0X
ADK    10.34 259 ePd    44 07.44    0.0
BALM   11.18  50 eP     44 16.00   -3.0X
                 i      44 17.51
IMA    11.53  13 eP     44 23.23   -0.5
F8A    11.66  27 (P)    44 24.99   -0.4
ILT    15.56 333 iPd    45 19.00    2.4
       1.2s     33.00nm          4.4mb
     Z  15s      2.80um          4.2MszX
     N  18s      1.00um
     E  18s      1.00um
BRW    16.42   4 (P)    45 27.12   -0.4
INK    18.14  32 eP     45 48.50   -0.5
       0.7s     29.00nm          4.5mb
                 pP     46 04.00
MCW    23.70  90 (P)    46 55.36    7.6X
PET    24.04 282 eP     46 51.50    0.6
       0.5s    150.00nm          5.8mb
     Z  20s      0.50um          4.0Msz
YKA    24.32  54 eP     47 12.10   18.5X
       0.8s     10.60nm
BMW    24.63  95 eP     46 55.91   -1.0
                 epP    47 07.77   47kmX
RMW    24.91  92 (P)    47 07.99    8.4X
LON    25.29  93 (P)    47 04.09    0.9
                 epP    47 14.17   37km
                 e      47 14.19
SHW    25.36  95 (P)    47 10.44    6.6X
MBC    26.09  21 ePc    47 09.60   -0.6
       0.7s     20.00nm          4.8mb
                 pP     47 24.50   63kmX
MGD    26.28 301 eP     47 14.00    1.9
       0.9s     40.00nm          5.0mb
     Z  16s      0.80um          4.4MszX
                 e      47 28.00
VGB    26.58  94 (P)    47 22.56    7.5X
NEW    27.19  86 eP     47 20.47   -0.2
       1.0s     44.82nm          5.1mb
                 epP    47 30.73   38km
LBFM   28.55 103 (P)    47 33.41    0.3
                 epP    47 44.21   40km
LRM    31.20  87 eP     48 04.40    7.7X
KVN    32.23 102 (P)    48 06.47    0.7
                 epP    48 15.97   33km
BONR   32.88 104 eP     48 12.73    1.2
                 epP    48 21.78   31km

TIK    33.40 327 iPc    48 14.00   -1.3
       1.1s     57.00nm          5.4mb
                 i      48 28.00
TNP    33.40 102 (P)    48 16.85    0.9
       1.0s     12.25nm          4.8mb
                 epP    48 25.98   31km
HVU    33.46  93 eP     48 16.46    0.1
                 epP    48 25.95   33km
BCH    33.91 109 (P)    48 20.90    0.6
                 epP    48 31.29   37km
DUG    34.47  95 eP     48 25.33    0.2
       1.3s     50.61nm          5.3mb
                 epP    48 35.20   34km
BW06   34.68  89 eP     48 26.48   -0.6
       0.6s      2.63nm          4.3mb
                 epP    48 36.52   35km
TPNV   34.75 103 eP     48 28.07    0.5
       1.1s     43.01nm          5.3mb
                 (pP)   48 38.29   36km
FCC    34.97  56 ePd    48 31.30    2.3
DAU    35.22  94 (P)    48 33.33    1.6
                 epP    48 40.76   25km
YAK    35.59 310 eP     48 31.00   -3.2X
       0.8s    100.00nm          5.8mb
                 e      51 00.00
GSC    35.63 105 (P)    48 35.33    0.4
                 epP    48 45.27   34km
ARUT   35.75  99 (P)    48 36.56    0.5
                 epP    48 46.46   33km
EMUT   35.87  94 (P)    48 38.91    1.8
                 epP    48 47.02   27km
YSS    35.89 281 iPc    48 36.50   -0.4
       1.0s     60.00nm          5.5mb
                 e      48 52.00
                 e      49 54.00
MSU    35.97  97 eP     48 37.18   -0.8
                 epP    48 48.15   39km
SRU    36.51  95 eP     48 42.61    0.2
                 ePP    48 52.65
KUSJ   37.09 275 eP     48 44.80   -2.2
ASAJ   37.64 278 eP     48 51.80    0.1
ULM    38.07  70 eP     48 57.00    1.8
HOOJ   38.35 275 eP     48 55.90   -1.7
GLA    38.39 106 (P)    48 58.65    0.5
                 epP    49 08.19   32km
GOL    39.08  90 (P)    49 02.90   -1.2
       0.7s      6.81nm          4.5mb
                 epP    49 14.06   40km
MRRJ   39.59 277 eP     49 07.40   -0.6
TUC    41.20 103 P      49 12.67   -8.8X
       1.0s      9.58nm          4.5mb
                 e      49 37.77
OFUJ   41.44 272 eP     49 23.10   -0.1
FRB    43.53  40 ePc    49 39.40   -0.5
       0.6s     36.00nm          5.3mb
                 pP     49 52.50   49kmX
NIIJ   44.23 272 P      49 46.20    0.3
KAKJ   44.27 270 P      49 46.30    0.0
BOD    44.43 310 iPc    49 45.80   -1.5
       0.5s     29.00nm          5.4mb
CHJJ   45.06 271 P      49 52.90    0.2
MAT    45.17 272 eP     49 54.00    0.4
       1.0s     78.00nm          5.6mb
IIDJ   46.09 271 P      50 06.00    5.2X
DAG    46.22  11 eP     50 00.50   -0.8
       0.8s     84.33nm          5.7mb
KBS    46.24   2 eP     50 01.30   -0 1
JAQ    46.27  55 ePd    50 00.50   -1.5
MEO    46.38  89 iPc    50 09.90    6.8X
LTX    47.46  99 eP     50 11.60   -0.3
                 epPc   50 20.51   30km
WKYJ   48.32 272 P      50 18.80    0.4
FVM    48.80  80 eP     50 19.73   -2.3
       0.6s     12.26nm          5.1mb
                 epP    50 30.70   38km
YONJ   48.85 275 P      50 22.20   -0.2
EEO    49.16  64 eP     50 26.00    1.3
TKSJ   49.38 273 P      50 26.90    0.4
MIAR   49.43  86 (P)    50 26.79   -0.1
       1.1s     14.75nm          4.9mb
                 epP    50 35.56   29km
ELC    49.97  80 (P)    50 30.59   -0.4
                 epP    50 39.10   28km
SHNJ   50.96 276 P      50 38.40   -0.1
GAC    51.64  63 eP     50 43.00   -0.6
KUMJ   52.28 274 P      50 48.40   -0.2
KAGJ   53.24 273 P      50 55.30   -0.4
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13d 23h

GBTN	53.96	78 (P)	50	58.76	-2.1			1.0s	21.00nm		5.1mb			0.8s	58.05nm		5.7mb
		epP	51	08.61	32km				e	53	26.00											TCF	77.97	12 iPc	53	34.30	-0.1
ZAK	54.13	308 iPc	51	01.80	-0.1		SNF	74.04	10 iPc	53	11.86	-0.3						0.8s	16.10nm		5.1mb
	0.6s	21.00nm			5.3mb		BRG	74.37	4 iPc	53	13.40	-0.6						KIS	78.05	354 iPc+	53	34.00	-0.8
		e	52	06.80				1.3s	46.00nm		5.3mb							1.0s	200.00nm		6.1mb
MOY	54.23	311 eP	51	03.00	0.4				i	53	28.50									i	53	49.00		
MYNC	54.43	78 (P)	51	03.55	-0.9		KSP	74.47	2 iPc	53	14.20	-0.4						MAF	78.08	12 iPc	53	35.10	0.1
	0.9s	18.18nm			5.1mb				i	53	29.50							0.8s	16.50nm		5.1mb
		epP	51	12.31	29km		MOX	74.48	5 iPc	53	14.70	0.0						KBA	78.13	5 iPc	53	36.00	0.5
NAV	54.68	74 (P)	51	03.95	-2.3			1.3s	56 00nm		5.4mb							0.6s	24.10nm		5.4mb
		epP	51	13.05	30km				e	53	28.20								ipP	53	51.30	54kmX
BJI	55.07	291 eP	51	06.50	-2.5		HOF	74.83	5 eP	53	16.50	-0.3						OGA	78.22	6 iPc	53	36.50	0.5
	1.4s	38.00nm			5.2mb		WLF	75.06	9 iPc	53	17.82	-0.2						FVI	78.59	5 P	53	37.50	-0.2
KEV	55.43	357 iP	51	09.60	-1.6			1.4s	26.70nm		5.0mb							RBL	78.78	4 P	53	38.40	-0.5
	0.7s	48.10nm			5.6mb				e	53	27.00							RJF	78.85	13 iPc	53	39.00	-0.3
TRO	55.66	0 iPc	51	12.00	-0.8				id	53	33.20								1.1s	29.30nm		5.2mb
AKU	56.21	18 iPd	51	18.20	1.3		OJC	75.14	0 eP	53	18.00	-0.5						VAI	79.05	8 P	53	40.40	0.1
	0.8s	41.79nm			5.5mb		PRU	75.27	4 Pc	53	18.90	-0.4						CTI	79.07	6 P	53	40.00	-0.6
JSC	56.63	77 (P)	51	17.89	-2.4			0.7s	15.80nm		5.1mb							LFF	79.11	14 iPc	53	40.90	0.3
		epP	51	27.84	32km				i	53	34.10								0.9s	59.60nm		5.6mb
LMN	56.83	56 eP	51	22.50	0.8		LDF	75.41	14 iPc	53	19.60	-0.5						VOY	79.20	4 eP	53	40.50	-0.7
SDF	57.78	357 iP	51	27.40	-0.6			0.8s	22.45nm		5.2mb									e	53	55.80		
SSE	58.85	281 Pd	51	35.30	-0.6		GRF	75.41	6 iPc	53	20.50	0.4						LJU	79.21	4 e(P)	53	41.00	-0.2
	0.5s	26.00nm			5.6mb			1.5s	80.00nm		5.5mb							LPL	79.23	9 iPc	53	42.40	0.8
ELT	59.00	320 eP	51	37.00	0.3				ipPd	53	35.40	53kmX							0.8s	13.70nm		5.0mb
	1.2s	69.00nm			5.7mb		GRR	75.51	14 iPc	53	20.40	-0.2						ORO	79.23	8 P	53	42.20	0.8
KAF	63.10	357 iP	52	02.00	-2.3			0.7s	33.60nm		5.4mb							LPG	79.25	9 iPc	53	42.70	0.9
	0.6s	32.60nm			5.6mb		LPF	75.83	14 iPc	53	22.50	0.1							0.9s	10.50nm		4.8mb
SVE	63.71	336 ePc	52	07.00	-1.4			0.7s	38.60nm		5.5mb							CAF	79.30	13 iPc	53	41.80	0.1
	0.9s	100.00nm			5.9mb		LANF	75.88	8 P	53	22.85	0.1							0.9s	15.55nm		5.0mb
		i	52	22.00			HOFF	75.93	8 P	53	23.53	0.5						VRI	79.32	355 eP	53	42.00	0.2
NB2	64 09	5 P	52	09.70	-1.2		WET	76.05	5 eP	53	23.90	0.2						LSD	79.32	9 Pc	53	42.93	0.8
	0.6s	25.30nm			5.5mb				i	53	39.30							CVO	79.39	355 ePc	53	43.50	1.3
NAO	64.28	5 P	52	09.27	-2.8		KHC	76.09	4 Pc	53	25.00	1.0						PTJ	79.40	3 iP	53	41.70	-0.6
LZH	64 49	297 iPc	52	13.20	-0.8			1.0s	21.00nm		5.1mb							LPO	79.42	13 iPc	53	42.40	0.1
	1.5s	81.00nm			5.6mb				i	53	39.40								0.9s	22.60nm		5.2mb
Z	20s	0.40um			4.6Msz		SPC	76.17	360 iP	53	25.20	0.6						KIV	79.50	343 iPc	53	43.40	0.4
		pP	52	24.00	35km				ipP	53	40.20	53kmX							0 9s	60.00nm		5.6mb
		sP	52	35.00			GEC2	76 38	4 e(P)	53	25.50	-0.2								e	53	54.90		
ARU	64.54	337 iPc	52	12.70	-1.1			0.6s	7.40nm		4.9mb							CEY	79.51	4 eP	53	42.00	-0.9
		e	52	25.00			CDF	76.40	9 P	53	25.66	-0.2						GRO	79.57	341 iPd	53	44.00	0.9
SLL	64.74	4 eP	52	13.50	-1.5		WLS	76.41	9 P	53	25.57	-0.2							1.5s	80.00nm		5.5mb
	0.5s	65.40nm			6.0mb		VITF	76.48	9 P	53	26.00	-0.1						RSP	79.64	9 Pc	53	44.33	0.7
NUR	64.76	357 iP	52	13.80	-1.3		ECH	76.59	9 P	53	26.68	-0.1						MLR	79.73	356 eP	53	45.50	1.3
	0.7s	58.50nm			5.8mb		UZH	76.70	358 ePc	53	28.00	0.7						vBY	79.78	3 eP	53	44.00	-0.2
		i	52	28.80				1.0s	32.00nm		5.3mb							RRL	79.82	9 Pc	53	46.32	1.5
KONO	65.39	6 eP	52	18.80	-0.4				e	53	43.50							RIY	79.91	4 iPc	53	44.80	-0.1
UPP	65.46	1 iPd	52	18.40	-1.2		HAU	76.72	9 iPc	53	27.40	-0.1						BHB	79.94	9 P	53	44.81	-0.4
		i	52	33.20				0.7s	25.80nm		5.4mb							CMP	79.99	356 ePd	53	47.00	1.6
EKA	68.41	14 Pd	52	40.30	1.9			Z 22s	0.05um		3.8Msz							GUN	80.00	305 P	53	46.20	0.0
	0.8s	29.90nm			5.4mb		BSF	76.94	9 iPc	53	28.50	-0.3						BOB	80.20	7 P	53	47.40	0.8
MUD	68.54	6 iPd	52	39.50	0.4			0.9s	22.30nm		5.2mb							PZZ	80.26	9 P	53	47.34	0.3
	1.0s	22.00nm			5.2mb		FUR	76.94	6 iPc	53	29.00	0.3						ERUA	80.27	20 eP	53	48.00	1.0
		ipP	52	54.00	52kmX			0.8s	34.00nm		5.4mb							DOI	80.28	9 P	53	46.20	-0.8
MOS	68.65	349 eP	52	39.00	-0.8				e	53	44.20							PCP	80.35	8 Pc	53	47.12	-0.3
		e	52	54.00			MOF	76.95	9 P	53	28.38	-0.5						KKN	80.38	305 P	53	48.00	0.0
DMU	69 23	17 eP	52	53.20	9.8X		FEL	77.00	8 P	53	28.73	-0.4						CKI	80.45	8 P	53	47.60	-0.2
OBN	69.39	350 iPc	52	43.00	-1.3		LOR	77.20	11 iPc	53	30.00	-0.2						GKN	80.50	306 P	53	48.40	-0.2
	1.0s	56.00nm			5.6mb			0.7s	14.75nm		5.1mb							PKI	80.51	305 P	53	48.60	-0.3
		i	52	57.80				Z 21s	0.08um		4.0Msz							ROB	80.54	9 P	53	47.93	-0.5
COP	69.49	4 iP	52	44.60	-0.3		MFF	77.35	14 iPc	53	31.20	0.2						STV	80.54	9 Pc	53	47.45	-1.0
	1 0s	60.00nm			5.6mb			0.8s	69.60nm		5.7mb							ENR	80.57	9 P	53	47.50	-1.1
DLF	69.87	16 eP	52	57.00	9.7X		BBS	77.36	9 P	53	31.02	-0.1						DMN	80.62	305 P	53	49.40	0.1
BSD	70.16	3 iPd	52	49.60	0.6		SSF	77.36	11 iPc	53	31.10	0.1						FIN	80.65	8 Pc	53	47.93	-1.0
	0.9s	37.00nm			5.4mb			0.5s	20.70nm		5.4mb							CHTO	80.85	290 iPc	53	49.90	-0.5
ETA	70.50	16 eP	52	51.20	0.0		LOMF	77.42	9 P	53	31.44	0.0							0.8s	14.09nm		5.0mb	
ECB	70.73	17 eP	52	52.40	-0.1		LBF	77.49	11 iPc	53	31.50	-0.3						ECRI	80.90	17 eP	53	51.00	0.7
ECP	70.98	17 eP	52	53.90	-0.1			0.8s	24.70nm		5.3mb							EPF	80.92	14 iPc	53	50.20	-0.2
MNK	71.26	355 eP	52	52.00	-3.7X		SRO	77.54	1 iP	53	32.60	0.7							0.8s	8.60nm		4.8mb	
HTR	71.56	15 eP	52	57.20	-0.4		AVF	77.61	12 iPc	53	32.30	-0.1						IMI	80.92	9 Pc	53	50.08	-0.4
	1.0s	16.00nm			5.0mb			0 6s	20.30nm		5.3mb							SBF	80.93	9 iPc	53	50.70	0.2
HAE	71.70	14 eP	52	58.30	-0.1		MOTA	77.75	6 iPc	53	33 30	0.0							0.8s	39.20nm		5.5mb	
	1.4s	31.00nm			5.1mb			0.8s	21.80nm		5.2mb							CDR	B0.96	10 ePc	53	51.20	0.7
FRU	71.97	321 iPc	53	00.00	-0.3				ipP	53	48.30	53kmX						BDI	80.98	7 P	53	51.70	0.9
Z	20s	1.00um			5.1MszX		WATA	77.78	6 iPc	53	33.60	0.1						FRF	81.16	10 iPc	53	51.90	0.3
		e	53	15.00					ipP	53	48.90	54kmX							0.9s	19.00nm		5.1mb	
WIT	71.98	8 eP	53	01.00	0.9		BGF	77.78	12 iPc	53	33.30	-0.1						SFI	81.20	6 P	53	53.00	1.3
HGH	72.06	15 eP	53	00.20	-0.3			0.8s	21.65nm		5.2mb							RSM	81.23	5 P	53	53.00	1.1
WTS	72.81	8 iPd	53	05.00	0.1		SMF	77.81	11 iPc	53	33.30	-0.2						LRG	81.23	10 iPc	53	52.60	0.7
	0.9s	37.70nm			5.4mb			1.0s	38.20nm		5.4mb								0.9s	11.95nm		4.9mb	
		e	53	20.00			WTTA	77.86	6 iPc	53	34.30	0.3						Z	22s	0.05um		3.8Msz	
KMI	73.70	290 eP	53	10.50	-0.4			0.7s	35.60nm		5.5mb							PGD	81.24	6 P	53	53.40	1.2
	2.0s	60.00nm			5.2mb				ipP	53	49.30	53kmX						FIR	81.31	6 eP	53	53.00	0.7
CLL	73.89	4 iPc	53	10.80	-0.4		SQTA	77.88	6 iPc	53	34.30	0.3						LMR	81.37	10 iPc	53	53.20	0.5
	1.1s	30.00nm			5.2mb			0.7s	35.40nm		5.5mb								1.0s	16.00nm		5.0mb	
		ipP	53	26.00	54kmX				ipP	53	49.50	54kmX						CRE	81.50	6 P	53	53.90	0.4
ENN	73.95	9 iP	53	11.30	-0.3		LSF	77.92	13 iPc	53	34 20	0.1						EGRA	81.65	15 eP	53	55.40	1.3

ARV	81.68	5	P	53	54.80	0.5	BNT	0.79	3	ePg	51	32.50	0.0	ARN	78.63	318	eP	09	10.47	0.3
ASH	81.70	330	eP	53	55.60	1.1	EZN	1.22	283	iPn	51	40.20	0.3	LRM	79.29	329	ePd	09	14.40	0.6
ASS	82.10	5	P	53	56.70	0.2	IZM	1.26	202	iPn	51	40.40	-0.3	NTYM	79.98	318	eP	09	18.02	0.9
HVAR	82.14	3	iP	53	55.80	-0.9	YLV	1.52	49	ePn	51	45.30	0.7	ORV	79.98	320	eP	09	18.09	0.9
PGF	82.37	8	iPc	53	58.50	0.5	S.D. = 0.6 on 6 of 6 obs.							LBFM	81.33	321	eP	09	24.60	0.1
	0.8s	32.35nm			5.4mb									VIPM	82.61	324	P	09	31.95	1.0
GUD	82.53	18	eP	54	00.20	1.3	MAY 13, 1993 23h 57m 37.20± 0.49s							JBO	82.80	325	P	09	32.82	1.1
ETOR	82.72	17	eP	54	00.60	0.7	21.558 S ± 5.5km 65.807 W ± 7.4km							CROR	83.12	324	P	09	34.67	1.3
EPLA	82.73	20	iPc	54	01.00	1.1	DEPTH = 276.2 ± 5.5 km							FCC	83.37	346	ePd	09	37.00	2.8
MNS	82.78	5	P	53	59.70	-0.4	4.6mb (25 obs.)							VBEM	83.49	324	P	09	36.35	1.0
AQU	82.85	5	P	54	01.30	0.8	SOUTHERN BOLIVIA (125)							WAH2	83.50	326	P	09	36.01	0.9
MAIO	82.90	329	iPd	54	01.90	1.1								DPW	83.55	328	P	09	35.86	0.4
GRS	83.16	340	iPc	54	03.00	0.7	YJA	0.67	155	iPd	58	10.00	-5.2X	SAW	84.04	327	P	09	38.83	1.0
	1.1s	30.00nm			5.3mb		HJA	1.69	167	iPd	58	22.80	3.1	ASR	84.19	325	P	09	39.65	0.9
AZI	83.21	5	P	54	02.80	0.6	SLA	3.17	175	iPc	58	35.80	2.1	WTV	84.32	327	P	09	39.77	0.5
NDI	83.25	312	iPc	54	02.70	0.0				S	59	20.10		FRB	85.05	359	eP	09	42.00	-0.4
	0.8s	29.85nm			5.5mb		FSA	4.51	182	iPc	58	49.80	1.3		1.0s	4.00nm			4.2mb	
SKO	83.37	359	iPc	54	03.70	0.6	ANT	4.76	242	iP	58	50.50	-1.1	BMW	85.27	324	P	09	44.82	0.7
	1.0s	70.00nm			5.7mb		CNCB	5.15	336	iPc	58	57.90	1.1	JCW	85.66	326	P	09	45.65	-0.2
		i		54	18.60		LPB	5.45	336	iPc	59	00.50	0.3	MCW	86.43	326	Pd	09	50.30	0.7
DUI	83.59	4	P	54	04.70	0.4	ZOBO	5.70	337	iPc	59	04.10	0.7	STW	86.54	325	P	09	51.31	1.2
VAY	84.01	358	iP	54	07.00	0.7	CYA	6.86	180	iPc	59	18.00	0.9	BUL	86.70	110	eP	09	52.30	0.6
		i		54	22.50		SIV	7.12	40	iPc	59	34.80	14.3X		0.8s	3.73nm			4.3mb	
ECHE	84.09	16	eP	54	08.40	1.5	ARE	7.39	312	iPc	59	22.50	-1.5	PGC	86.73	326	eP	09	52.00	1.1
KNT	84.16	358	i(P)c	54	07.65	0.6				iS	00	41.00			0.8s	27.00nm			5.2mb	
SRS	84.18	357	i(P)c	54	07.50	0.3	RTPR	8.73	184	iPc	59	38.40	-2.0	LFF	89.66	41	iPd	10	04.50	-0.4
OHR	84.24	359	iP	54	06.80	-0.8	RTRS	9.18	200	ePd	59	46.30	0.2		0.5s	3.00nm			4.5mb	
	1.0s	70.00nm			5.8mb		TCA	9.80	174	iPc	59	52.50	-1.5	MFF	90.00	39	iPd	10	06.10	-0.3
		i		54	23.10		ZON	10.27	194	eP	59	58.00	-1.9		0.7s	4.95nm			4.5mb	
ALN	84.31	355	i(P)c	54	08.02	0.2	MRA	10.81	180	ePc	00	03.80	-2.7	LPF	90.25	37	iPd	10	06.60	-0.9
KHT	84.34	288	iPc	54	08.10	-0.2	RFA	13.37	190	eP	00	36.40	-1.7		0.4s	2.20nm			4.4mb	
GRG	84.37	358	i(P)c	54	08.97	0.8				i	00	41.30		RJF	90.32	41	eP	10	07.50	-0.4
SOH	84.49	357	i(P)c	54	08.94	0.1				(S)	02	57.30		GRR	90.55	37	iPd	10	07.90	-1.0
FNA	84.56	359	i(P)c	54	09.22	0.0	NNA	14.21	310	iPd	00	48.00	-0.4		0.8s	8.85nm			4.7mb	
SGO	84.72	3	P	54	09.80	0.0		0.6s	50.00nm			5.0mb		LSF	90.81	40	eP	10	10.40	0.2
EVIA	84.77	17	eP	54	11.00	0.7	RIFB	17.18	88	iPc	01	22.00	0.1	LDF	91.07	37	iPd	10	10.50	-0.8
OUR	84.95	357	i(P)c	54	11.18	0.1				e	01	28.80			0.8s	7.00nm			4.6mb	
MGR	85.15	3	P	54	11.90	-0.1	VAO	17.50	98	eP	01	24.20	-1.0	BGF	91.75	40	iPd	10	14.00	-0.5
CSI	85.53	3	P	54	14.50	0.5				e	01	32.10			0.8s	3.65nm			4.4mb	
ROI	85.74	3	P	54	15.00	-0.1	CACB	17.74	94	eP	01	27.50	-0.3	AVF	92.17	40	eP	10	16.00	-0.4
ECOG	85.90	19	eP	54	16.50	0.4				i	01	28.00		YKA	92.23	340	eP	10	16.30	0.0
OUE	86.01	321	eP	54	17.40	0.6	BAO	17.88	74	eP	01	20.60	-8.7X		0.5s	15.70nm			5.3mb	
CZI	86.08	3	P	54	15.70	-1.0				e	01	33.00		SMF	92.39	40	eP	10	17.50	0.0
CSS	89.64	349	eP	54	33.60	-0.3	SDV	30.62	351	eP	03	26.50	-1.8		0.6s	3.05nm			4.5mb	
HYB	92.43	305	eP	54	46.50	-0.5	TOV	31.39	352	eP	03	33.50	-1.4	SSF	92.39	40	iPd	10	17.50	0.1
WB2	93.00	239	iPd	54	48.70	-0.7	TKL	59.40	343	iPd	07	10.97	-2.1		0.7s	1.75nm			4.2mb	
	0.7s	7.80nm			5.2mb		NAV	60.24	346	eP	07	17.28	-1.5	LBF	92.64	40	iPd	10	18.90	0.3
WRA	93.01	239	P	54	49.00	-0.4	MIAR	61.72	334	iPd	07	26.95	-1.7	LOR	92.71	40	eP	10	19.00	0.1
	0.6s	3.10nm			4.9mb			1.1s	21.36nm			4.7mb			0.5s	1.00nm			4.1mb	
GBA	96.26	304	P	55	06.00	1.4	OLY	61.74	336	eP	07	26.07	-2.7	LPL	93.63	42	iPd	10	23.80	0.3
ASPA	96.37	237	eP	55	04.50	-0.3	UYO	61.76	333	iPd	07	27.60	-1.3		0.6s	1.45nm			4.2mb	
	0.8s	5.30nm			5.1mb		LTX	62.37	323	iPd	07	30.68	-2.5	LPG	93.64	42	iPd	10	24.10	0.5
LSZ	139.82	347	iPKPd	00	56.70	-8.1X	ELC	62.55	339	eP	07	31.18	-2.9		0.7s	1.85nm			4.3mb	
		i		01	07.00		FVM	63.59	338	iPd	07	38.69	-2.1	WB2	134.28	207	iPKPc	16	25.30	0.9
		i		04	37.80			0.5s	7.09nm			4.6mb			0.3s	8.40nm				
BUL	144.55	346	iPKPd	01	11.00	-2.0X	MEO	64.10	330	iPc	07	41.60	-2.6	WRA	134.29	207	Pdiff	13	26.80	1.7
	0.9s	71.85nm					OCO	64.22	332	iPd	07	45.80	0.9		0.9s	0.70nm				
SPA	144.84	180	iPKPd	01	10.20	-1.9X	NVL	65.75	159	iPc	07	51.00	-3.3X	WRA	134.29	207	PKP	16	25.50	1.1
	0.6s	32.52nm						1.0s	58.00nm			5.3mb			0.6s	2.80nm				
CIR	144.91	341	iPKPd	01	14.50	1.1	EMM	65.99	359	eP	07	55.00	-1.0	GBA	144.15	97	PKP	16	40.00	-2.3
WIN	147.53	5	iPKPc	01	20.20	2.3X	LMN	67.09	1	ePd	08	04.40	1.5	NDI	145.88	70	ePKP	16	46.00	1.1
	0.8s	69.00nm					GAC	67.51	353	eP	08	17.00	11.5X	HYB	146.20	91	ePKP	16	48.00	2.2
BFT	149.75	341	iPKPc	01	26.50	5.1X	EEO	68.93	350	ePd	08	15.90	1.7	KUSJ	146.73	317	ePKP	16	47.10	1.3
	0.8s	34.00nm					GOL	71.26	329	eP	08	28.13	-0.6	ASAJ	147.45	320	ePKP	16	50.40	3.4X
SLR	150.10	345	iPKPc	01	25.60	3.8X		1.0s	18.64nm			4.8mb		HOOJ	148.00	317	ePKP	16	51.60	3.7X
	0.7s	138.00nm					GLA	71.67	318	eP	08	31.28	0.3	GKN	152.45	71	PKP	17	02.60	7.3X
KSR	150.42	347	iPKPc	01	26.00	3.7X	SRU	73.43	325	iPd	08	41.64	0.3	DMN	152.91	71	PKP	17	03.80	7.7X
	0.8s	40.00nm					PEC	73.69	317	eP	08	42.90	0.2	KKN	153.04	71	PKP	17	03.80	7.6X
PRY	151.39	346	iPKPd	01	29.60	5.9X		1.0s	29.38nm			5.0mb		GUN	153.55	70	PKP	17	05.20	8.1X
	0.8s	40.00nm					MSU	73.90	324	iPd	08	44.91	0.9	MAT	154.34	311	ePKP	17	06.00	8.6X
SEK	152.74	345	iPKPc	01	31.60	6.0X	ARUT	74.09	323	eP	08	45.75	0.6		0.8s	7.46nm				
	0.7s	66.00nm					RSSD	74.14	332	ePc	08	45.07	-0.3	S.D. = 1.3 on 96 of 108 obs.						
BLF	153.71	347	iPKPd	01	35.00	8.0X		0.8s	28.44nm			5.1mb								
	0.7s	22.00nm					GSC	74.39	319	ePd	08	47.47	0.7	• MAY 14, 1993 00h 01m 53.39± 2.10s						
POF	154.38	360	iPKPc	01	37.00	9.4X	DAU	74.77	326	iPd	08	49.73	0.6	5.447 S ±13.9km 147.158 E ± 9.0km						
	0.3s	7.00nm					DUG	75.44	325	ePc	08	52.70	0.0	DEPTH = 157.7 ± 18.1 km						
S.D. = 0.9 on 259 of 286 obs.								0.8s	10.95nm			4.6mb		4.9mb (10 obs.)						
							JAQ	75.53	354	ePd	08	50.50	-2.2	EASTERN NEW GUINEA REG., P.N.G. (207)						
% MAY 13, 1993 23h 51m 17.19± 0.85s							ABL	75.61	317	eP	08	53.84	0.0							
39.570 N ± 7.3km 27.870 E ± 9.3km							BW06	75.65	328	eP	08	53.28	-0.6	MDG	1.39	278	iPc	02	27.20	4.5X
DEPTH = 10.0km (geophysicist)								0.6s	8.00nm			4.6mb		PMG	3.93	180	iPd	02	53.40	-0.2
TURKEY (366)							ISA	75.66	318	eP	08	54.56	0.7				eS	03	35.00	
ML 2.9 (ISK).								0.6s	25.50nm			5.1mb		CTA	14.58	183	iPc	05	15.00	1.6
										ePcP	09	01.73		QIS	16.72	205	iPc	05	39.90	0.0
KCT	0.77	29	ePg	51	31.80	-0.5	ULM	76.28	341	ePd	08	58.70	1.8	MTN	17.44	244	eP	05	48.20	-0.4
EDC	0.78	360	ePg	51	32.00	-0.3	HVU	76.55	326	ePd	08	58.90	0.1		0.4s	100.00nm			5.5mb	
			eSg	51	42.00		BONR	77.04	320	eP	09	02.44	0.7	WB2	19.05	220	iPc	06	05.60	-0.4

14d 00h

	0.3s	180.10nm			5.9mb	X
		i	09	31.80		
		e	09	40.60		
ASPA	22.16	214 iPd	06	38.50	1.3	
	0.8s	145.30nm			5.5mb	
		iS	10	30.20		
BKM	23.93	122 iPd	06	55.10	0.8	
DZM	24.92	133 iPc	07	01.20	-2.5	
ARMA	25.19	171 iPd	07	06.20	0.1	
	0.8s	22.00nm			4.8mb	
STK	26.81	191 iPc	07	29.60	8.9X	
	0.4s	4.60nm			4.5mb	
MEEK	34.43	229 iPd	08	27.80	0.0	
	0.3s	14.00nm			5.2mb	
NANU	34.96	238 iPc	08	32.30	0.0	
	0.4s	4.00nm			4.5mb	
COOL	35.18	221 eP	08	33.50	-0.6	
		e	08	40.00		
MRWA	37.77	228 eP	08	56.00	0.1	
	0.3s	6.00nm			4.8mb	
		e	09	02.00		
KLB	37.88	223 eP	08	56.00	-0.7	
	0.4s	14.00nm			5.0mb	
		e	09	02.00		
BAL	38.03	225 eP	08	57.70	-0.3	
	0.3s	11.00nm			5.0mb	
		e	09	04.00		
MUN	39.17	224 eP	09	14.20	6.8X	
IMA	82.99	21 eP	14	02.00	0.1	
	1.0s	5.25nm			4.3mb	
KLU	84.00	26 eP	14	07.40	0.4	
GEC2	121.54	326 PKP	20	28.90	-0.9	
	0.6s	1.46nm				
		e	22	38.00		
GRF	122.43	328 ePKP	20	32.00	0.6	
SIV	144.87	128 iPKPc	21	26.60	12.5X	
PPD	147.24	147 ePKP	21	19.10	1.2	
VAO	148.53	154 ePKP	21	23.40	3.4X	
	S.D. = 1.0	on 20 of 25 obs.				

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* MAY 14, 1993 01h 19m 12.63± 1.04s
51.047 N ±13.1km 15.843 E ± 5.4km
DEPTH = 10.0km (geophysicist)
POLAND (548)
ML 3.1 (GRF).

KSP	0.35	125 iP	19	19.40	-0.5	
	0.6s	56.00nm				
		iS	19	28.20		
		eLR	19	35.50		
BRG	1.21	263 iPg	19	35.00	-0.2	
		iSg	19	55.60		
PRU	1.35	219 ePn	19	37.00	-0.4	
		Pg	19	39.80		
		Sn	19	56.70		
		Sg	20	02.60		
CLL	1.81	279 ePg	19	44.00	0.0	
		iSg	20	10.00		
KHC	2.41	218 Pn	19	53.60	0.9	
		ePg	20	01.20		
		eSn	20	25.00		
		Sg	20	36.00		
HOF	2.63	255 ePn	20	02.70	6.9X	
OJC	2.65	107 eP	19	56.50	0.3	
		eS	20	31.90		
MOX	2.71	263 ePg	20	03.10	6.1X	
		iSg	20	43.40		
GRF	3.25	247 ePn	20	04.50	-0.2	
		ePg	20	15 00		
		eSg	21	01.20		
	S.D. = 0.6	on 7 of 9 obs.				

? MAY 14, 1993 01h 52m 20.62± 1.14s
37.973 N ±60.1km 14.159 E ± 6.4km
DEPTH = 10.0km (geophysicist)
SICILY (398)

GIB	0.11	279 P	52	22.50	-1.0	
		eSg	52	24.80		
MNO	0.43	95 P	52	28.60	-0.8	
ATN	1.05	79 P	52	39.90	-0.5	
ERC	1.24	273 P	52	44.20	0.5	
SOI	1.50	86 P	52	48.90	1.4	
	S.D. = 1.4	on 5 of 5 obs.				

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* MAY 14, 1993 02h 03m 51.78± 1.66s
24.490 N ±18.0km 109.018 W ± 9.3km
DEPTH = 10.0km (geophysicist)
4.2mb (12 obs.)
GULF OF CALIFORNIA (49)

MZX	2.70	118 (P)	04	51.80	15.8X	
LTX	6.79	44 eP	05	32.46	-1.5	
GLA	9.93	330 eP	06	15.26	-2.4	
ALO	10.65	11 eP	06	27.97	0.3	
		eS	09	21.47		
PLM	11.18	324 eP	06	33.33	-1.6	
GSC	12.71	330 eP	06	55.39	0.0	
MEO	13.68	39 iPd	07	14.50	6.2X	
ARUT	13.78	345 (P)	07	09.08	-0.6	
		e	07	18.72		
TPNV	13.88	335 (P)	07	12.89	1.9	
MSU	14.24	350 eP	07	16.54	0.8	
BCH	14.33	321 (P)	07	17.67	0.8	
		e	07	22.97		
SRU	14.63	355 eP	07	20.20	-0.7	
OCO	14.85	40 iPd	07	32.50	9.0X	
TNP	15.24	335 eP	07	29.20	0.3	
	1.0s	17.59nm			4.4mb	
EMUT	15.35	355 eP	07	29.73	-0.6	
GOL	15.47	11 (P)	07	33.79	1.8	
	1.0s	10.80nm			4.1mb	
MEMM	15.63	330 eP	07	34.81	1.2	
DUG	15.98	349 eP	07	39.84	1.5	
	0.9s	10.05nm			4.0mb	
DAU	15.99	354 eP	07	38.75	0.1	
ARN	16.70	323 eP	07	46.51	-0.9	
MIAR	16.74	50 eP	07	45.31	-2.7	
	1.1s	9.90nm			3.9mb	
HVU	17.52	351 eP	07	58.32	0.4	
		e	08	07.24		
BW06	18.25	359 eP	08	05.81	-1.1	
	0.8s	7.98nm			3.9mb	
RSSD	20.00	11 eP	08	27.96	0.4	
	0.8s	4.63nm			3.9mb	
LRM	21.46	353 eP	08	42.60	-0.1	
MYNC	23.98	58 eP	09	01.38	-5.9X	
	0.9s	9.39nm			4.4mb	
GBTN	24.12	57 (P)	09	08.71	0.1	
NEW	24.58	347 eP	09	12.38	-0.6	
	0.9s	42.37nm			5.1mb	
GMW	25.49	338 eP	09	21.50	-0.1	
ULM	27.67	18 eP	09	43.50	1.8	
FCC	35.85	13 eP	10	55.50	2.2	
YKA	38.18	356 eP	11	11.50	-1.3	
	1.1s	2.80nm			3.9mb	
JAO	38.41	32 eP	11	16.00	1.1	
KLU	44.67	336 (P)	12	04.73	-1.6	
INK	46.30	348 eP	12	20.00	1.0	
FBA	47.48	339 eP	12	27.28	-1.2	
	0.7s	2.88nm			4.5mb	
MBC	52.07	357 ePd	13	03.50	0.1	
	0.8s	6.00nm			4.6mb	
ZOBO	56.86	131 P	13	52.20	12.3X	
LPB	57.06	132 eP	13	58.00	16.8X	
CNCB	57.34	132 P	13	54.00	10.7X	
SIV	61.70	126 P	14	31.00	18.2X	
HFS	83.66	25 eP	16	23.00	1.3	
	1.0s	9.80nm			5.0mb	
	S.D. = 1.3	on 34 of 42 obs.				

MAY 14, 1993 02h 33m 53.66± 0.33s
27.927 S ± 3.6km 66.950 W ± 6.3km
DEPTH = 187.8 ± 7.5 km
CATAMARCA PROVINCE, ARGENTINA (130)
Felt (III) at Copiapo; (II) at Chanaral and Vallenar, Chile.

CYA	1.14	117 iPc	34	22.80	-0.8	
		S	34	42.80		
FSA	2.02	25 iP	34	31.60	-0.2	
		(S)	34	58.50		
RTPR	2.40	171 iPd	34	36.10	0.1	
SLA	3.44	23 ePc	34	48.80	0.0	
		S	35	30.80		
RTLL	3.64	201 iPd	34	51.00	-0.1	
CFA	3.83	197 iPd	34	53.50	0.0	
		S	35	37.70		
RTCB	3.89	204 e(P)	34	54.70	0.3	
TCA	3.97	149 iPd	34	55.00	-0.3	
		S	35	37.50		
RTBS	4.31	210 ePc	35	00.10	0.6	
		S	35	49.50		
MRA	4.60	167 ePd	35	02.90	-0.3	
		S	35	48.00		
HJA	4.90	17 ePc	35	08.40	1.3	
MDZ	5.21	198 eP	35	12.50	1.3	
		iS	36	06.70		
ANT	5.24	323 eP	35	11.00	-0.5	
		iS	36	10.20		
YJA	5.88	13 ePc	35	14.50	-5.9X	
PEL	6.12	211 iP	35	22.50	-0.6	
		iS	36	31.50		
RFA	6.94	190 iP	35	33.40	-0.6	
		(S)	36	46.80		
CNCB	11.10	355 P	36	29.10	0.2	
LPB	11.39	354 eP	36	31.00	-1.4	
ZOBO	11.65	354 P	36	36.60	0.6	
		S	38	41.80		
SIV	13.07	26 P	37	05.60	12.1X	
		e	39	14.00		
PPD	15.34	71 eP	37	22.90	1.1	
VAO	18.69	79 eP	38	00.60	0.4	
CACB	19.37	76 iPd	38	07.10	-0.2	
		e	38	07.60		
		e	38	09.50		
RIFB	19.40	70 eP	38	06.40	-1.1	
		e	38	07.60		
		e	38	11.30		
	S.D. = 0.8	on 22 of 24 obs.				

MAY 14, 1993 02h 39m 15.65± 0.41s
20.620 N ± 9.1km 94.845 E ± 8.0km
DEPTH = 33.0km (normal)
4.4mb (17 obs.)
MYANMAR (296)

CHTO	4.26	114 ePnc	40	19.90	0.0	
		eSn	41	08.40		
		iSg	41	32.80		
BDT	5.17	130 ePn	40	25.00	-7.8X	
		eSg	41	35.50		
KHT	6.81	148 eP	40	55.00	-0.9	
NST	7.03	134 eP	40	58.00	-1.0	
KMI	8.55	57 eP	41	27.00	6.6X	
	1.4s	30.00nm			5.2mb	
Z	15s	1.30um			4.7Msz	
E	10s	0.70um				
		pP	41	35.00		
		eS	43	28.00		
GUN	10.93	313 P	41	52.60	-0.6	
PKI	11.05	311 P	41	54.00	-0.8	
	0.6s	32.00nm			5.7mb	X
KKN	11.27	311 P	41	57.20	-0.5	
	0.4s	19.00nm			5.6mb	X
DMN	11.29	310 P	41	58.00	0.0	
	0.6s	32.00nm			5.7mb	X
GKN	11.85	310 P	42	04.60	-1.0	
	0.4s	21.00nm			5.7mb	X
HYB	15.73	261 ePc	42	57.00	0.4	
	1.0s	30.00nm			4.4mb	
		eS	45	46.00		
LZH	17.31	25 eP	43	19.00	2.4	
	1.5s	27.00nm			4.2mb	
Z	18s	0.35um			4.1MszX	
E	14s	0.36um				
		pP	43	27.00		
		sP	43	32.00		
GBA	18.03	250 P	43	28.00	2.5	
		S	46	32.00		
BJI	26.59	39 eP	45	03.00	10.3X	
	1.4s	24.00nm				
MAIO	34.56	305 eP	46	16.00	12.5X	
WRA	55.85	134 P	48	51.50	-1.1	
	0.6s	0.90nm			4.0mb	
VRI	60.37	312 eP	49	22.00	-2.0	
MLR	60.92	311 eP	49	22.50	-5.4X	
NUR	62.53	328 eP	49	44.00	5.8X	
HFS	67.96	328 eP	50	11.80	-1.4	
	0.5s	4.50nm			4.8mb	
GEC2	69.02	316 P	50	20.10	-0.1	
	0.5s	2.94nm			4.6mb	
		e	50	22.80		
		e	50	24.90		
		e	50	31.10		
NB2	69.12	329 P	50	19.20	-1.3	
	0.7s	2.50nm			4.4mb	
HAU	73.98	316 eP	50	49.50	-0.3	
	0.6s	2.70nm			4.4mb	
LPG	74.29	313 eP	50	51.20	-0.7	
	0.6s	2.00nm			4.3mb	

```
LPL     74.30 313 eP     50 51.60   -0.3
        0 5s      2.75nm          4.5mb
LBF     75.79 315 eP     50 59.90   -0.3
        0.7s      2.75nm          4.4mb
LOR     75.80 315 eP     50 59.70   -0.5
SMF     75.97 315 eP     51 01.00   -0.2
        0 5s      3.00nm          4.5mb
SSF     76.08 315 eP     51 01.70   -0.1
        0.5s      1.80nm          4.3mb
AVF     76.26 315 eP     51 02.50   -0.2
        0.4s      1.45nm          4.3mb
BGF     76.65 315 eP     51 05.60    0.6
MAF     76.93 315 eP     51 06.70    0.1
        0.7s      2.20nm          4.3mb
RJF     77.90 314 eP     51 12.50    0.6
        0.6s      2.00nm          4.3mb
LPO     78.30 313 eP     51 14.60    0.5
        0.4s      1.45nm          4.3mb
LFF     78 53 314 eP     51 16.40    1.1
TOV    146.22 332 ePKP   58 56.40    2.2
SDV    147.39 333 ePKP   58 58.80    2.6
PPD    148.48 261 ePKP   59 02.40    4.9X
     S.D. = 1.2  on  31 of  38 obs.
-------------------------------------
?  MAY  14, 1993  03h 09m 21.54± 5.10s
   8.892 N ±14.7km  126.218 E ±49.9km
   DEPTH =  33.0km  (normal)
 MINDANAO, PHILIPPINE ISLANDS      (259)

CGP      1.57 254 iPc    09 48.00    0.6
                 iS     10 05.00
PLP      2.57 332 ePc    10 02.00    0.3
CTB      2.61 230 eP     10 02.00   -0.3
MAP      2.62 303 eP     10 02.00   -0.5
     S.D. = 0.9  on   4 of   4 obs.
-------------------------------------
•  MAY  14, 1993  03h 11m 57.57± 3.25s
   6.569 S ±14.8km  130.674 E ±16.7km
   DEPTH =  82.9 ± 35.4 km
   4.1mb (  1 obs.)
 BANDA SEA                         (280)

MTN      6.25 176 eP     13 30.00    0.9
        0.3s    115.00nm          5.8mb X
                 eS     14 37.00
WB2     13.77 165 iPc    15 08.70   -1.8
                 eS     17 32.50
QIS     16.38 149 eP     15 44.60    0.7
                 eS     18 36.00
ASPA    17.28 170 eP     15 55.20    0.1
        0.7s      9.80nm          4.1mb
                 eS     18 56.50
MBL     17.90 215 eP     16 02.00   -0.7
WARB    19.88 191 eP     16 25.00    0.1
                 eS     19 56.00
NANU    21.59 221 eP     16 43.00    0.8
GUN     55.18 311 P      21 24.60    0.0
        0.6s     24.00nm          5.4mb X
PKI     55.36 310 P      21 25.60   -0.3
        0.6s     12.00nm          5.1mb X
KKN     55.57 310 P      21 27.20    0.0
        0.6s     12.00nm          5.1mb X
DMN     55.61 310 P      21 27.60    0.0
GKN     56.17 310 P      21 31.60    0.1
        0.6s     20.00nm          5.3mb X
CNCB   150.33 142 PKP    31 46.80    9.8X
LPB    150.47 141 ePKP   31 28.00   -9.0X
ZOBO   150.66 141 PKP    31 46.80    9.3X
     S.D. = 0.8  on  12 of  15 obs.
-------------------------------------
%  MAY  14, 1993  03h 53m 41.20± 1.90s
   60.475 N ± 8.1km    4.310 E ±15.6km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN NORWAY                   (535)
      MD 2.1 (BER).

ASK      0.44  89 iPd    53 50.95    0.8
                 eS     53 55.72
EGD      0.50 114 eP     53 52.07    0.8
                 eS     53 58.07
SUE      0.62  21 iPc    53 54.59    0.9
                 eS     54 02.74
HYA      1.15  52 eP     54 02.39   -0.3
                 eS     54 15.98
FOO      1.18  17 eP     54 03.35    0.1
                 eS     54 18.65
ODD1     1.29 115 eP     54 05.48    0.4
                 eS     54 19.51
KMY      1.35 159 eP     54 05.99    0.0
                 eS     54 25.58
NRA0     3.58  83 ePn    54 35.17   -2.6
                 ePg    54 44.92
                 eSn    55 14.32
                 eLg    55 30.22
     S.D. = 1.4  on   8 of   8 obs.
-------------------------------------
?  MAY  14, 1993  04h 07m 41.69± 3.97s
   60.543 N ±13.7km    4.543 E ±30.4km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN NORWAY                   (535)
      MD 1.5 (BER).

ASK      0.33 100 iPd    07 48.92    0.4
                 eS     07 53.64
EGD      0.44 129 iP     07 50.36   -0.2
                 eS     07 56.13
SUE      0.53  12 eP     07 52.56    0.2
                 eS     08 00.60
HYA      1.02  51 eP     08 00.45   -0.5
                 eS     08 13.86
NRA0     3.45  84 ePg    08 42.94    6.4X
                 eLg    09 28.57
     S.D. = 0.7  on   4 of   5 obs.
-------------------------------------
•  MAY  14, 1993  04h 15m 19.22± 0.33s
   59.108 S ± 8.7km   25.606 W ±11.0km
   DEPTH =  33.0km  (normal)
   4.7mb (  3 obs.)
 SOUTH SANDWICH ISLANDS REGION     (153)

SNA     14.86 149 iPc    18 47.60   -0.8
        0.6s     33.00nm          4.9mb
SPA     31.07 180 iPc    21 36.90    0.8
        0.9s     13.64nm          4.8mb
PPD     41.34 322 eP     23 02.30   -1.0
CNCB    52.31 305 P      24 32.00    1.6
LPB     52.61 305 eP     24 33.00    0.6
ZOBO    52.86 305 P      24 33.00   -1.5
LSZ     58.77  66 iPc    25 16.90    0.5
                 i      25 32.00
LIC     67.17  22 P      26 12.30    0.5
KIC     67.36  23 P      26 13.30    0.3
TIC     67.58  22 P      26 14.80    0.4
WRA     99.53 161 P      29 01.20    1.1
        0.7s      0.50nm          4.2mb
NB2    123.18  20 PKP    34 12.30   -0.2
        0.9s      2.60nm
APO    123.22  22 ePKP   34 12.20   -0.3
        0.8s      3.50nm
DMN    123.84  92 PKP    34 15.00   -0.1
GKN    123.91  91 PKP    34 15.00   -0.1
PKI    123.96  92 PKP    34 15.00   -0.5
KKN    124.07  92 PKP    34 15.20   -0.3
GUN    124.48  93 PKP    34 16.40   -0.1
FRB    126.82 338 ePKP   34 19.50    0.1
        0.7s      2.00nm
KAF    127.33  28 iPKP   34 20.10   -0.3
        0.5s      3.30nm
YKA    138.98 315 ePKP   34 35.70   -6.7X
        0.7s      6.10nm
MBC    147.12 334 ePKP   34 55.50   -0.6
        0.6s      4.00nm
INK    148 67 317 ePKP   35 03.50    4.7X
        0.7s      3.00nm
KLU    151.23 301 ePKP   35 09.25    6.3X
FBA    153.13 307 ePKP   35 12.00    6.5X
     S.D. = 0.8  on  21 of  25 obs.
-------------------------------------
?  MAY  14, 1993  04h 55m 59.34± 1.29s
   7.529 S ±16.7km  128.420 E ±25.0km
   DEPTH = 161.3 ± 13.8 km
   4.5mb (  1 obs.)
 BANDA SEA                         (280)

MTN      5.92 153 eP     57 25.20   -0.7
        0.4s     79.00nm          5.3mb X
                 eS     58 28.00
WB2     13.62 156 iPd    59 04.50   -2.6X
                 eS     01 25.50
MBL     15.89 211 eP     59 35.00   -0.5
                 eS     02 17.00
ASPA    16.89 162 iPc    59 48.20    0.5
        0.6s     14.30nm          4.5mb
                 eS     02 38.70
WARB    18.63 185 eP     00 06.80   -0.5
                 eS     03 25.00
NANU    19.43 218 iPd    00 16.90    1.4
MAIO    77.80 310 eP     07 39.00   -1.5
OBN     97.16 325 eP     09 24.00    9.8X
        1.0s     22.00nm          5.5mb X
YKA    108.91  26 ePKP   14 12.10    1 5
        0.5s      0.10nm
     S.D. = 1.6  on   7 of   9 obs.
-------------------------------------
?  MAY  14, 1993  05h 01m 44.75± 0.56s
   14.487 N ± 9.1km    40.021 E ±16.5km
   DEPTH =  33.0km  (normal)
   4.1mb (  9 obs.)
 ETHIOPIA                          (558)
      MD 3.5 (ARO).

ARO      4.03 137 eP     02 46.00    0.2
AAE      5.56 193 ePn    03 07.50   -0.2
GEC2    40.52 333 P      09 23.40    1.0
        0.7s     2.03nm          4.0mb
KHC     40.79 333 eP     09 25.00    0.4
                 e      09 33.50
LPG     41.73 325 eP     09 38.50    5.9X
        0.8s     3.10nm          4.1mb
LPL     41.75 325 eP     09 37.90    5.2X
        1.0s     5.40nm          4.2mb
BSF     43.15 327 eP     09 44.30    0.3
        0.8s     3.10nm          4.1mb
CDF     43.27 328 eP     09 45.30    0.4
        0.6s     1.55nm          3.9mb
HAU     43.49 327 eP     09 47.00    0.4
        1.1s     6.60nm          4.3mb
LBF     44.16 325 eP     09 52.00   -0.1
        0.6s     1.70nm          4.0mb
LOR     44.39 325 eP     09 53.80   -0.1
AVF     44.40 324 eP     09 53.80   -0.2
        0.9s     3.60nm          4.2mb
SSF     44.47 324 eP     09 54.40   -0.2
HFS     49.48 343 eP     10 31.80   -1.9
        0.4s     0.70nm          4.1mb
     S.D. = 0.8  on  12 of  14 obs.
-------------------------------------
?  MAY  14, 1993  05h 42m 03.61± 1.29s
   25.354 N ±18.2km  125.440 E ±27.3km
   DEPTH =  33.0km  (normal)
   4.3mb (  4 obs.)
 SOUTHWESTERN RYUKYU ISLANDS       (246)

SSE      6.84 328 ePn    43 44.00   -0.2
     Z  12s      1.40um
                 Pg     44 04.30
                 Sn     44 48.50
BJI     16.57 334 eP     46 02.00    7.0X
     Z  16s      0.58um
     N  12s      0.61um
                 eS     49 04.00
KMI     20.54 274 eP     46 42.00   -0.2
                 pP     46 46.50   17kmX
LZH     21.38 305 Pd     46 51.00    0.3
        1.8s     57.00nm          4.7mb
     Z  11s      0.79um          4.4MszX
                 sP     47 02.50
                 PP     47 18.00
                 eS     50 40.00
                 sS     50 52.00
WRA     45.85 168 P      50 25.10    0.5
        0.6s     1.40nm          4.1mb
WB2     45.85 168 eP     50 24.00   -0.6
        0.6s     3.50nm          4.5mb
NB2     78.97 333 P      53 59.00   -6.4X
        0.7s     1.10nm          4.0mb
     S.D. = 0.6  on   5 of   7 obs.
-------------------------------------
?  MAY  14, 1993  06h 21m 30.96± 0.95s
   41.551 N ± 9.9km    20.255 E ± 6.9km
   DEPTH =  10.0km  (geophysicist)
 ALBANIA                           (391)
      ML 1.8 (TIR).

PHP      0.19  46 iPg    21 35.60    0.4
                 iSg    21 39.60
TIR      0.36 235 ePg    21 39.00    0.7
                 iSg    21 43.20
LACI     0.42 282 ePg    21 38.90   -0.6
OHR      0.60 137 ePg    21 42.70   -0.4
                 iSg    21 53.00
```

14d 06h

S.D. = 1.1 on 4 of 4 obs.

% MAY 14, 1993 06h 34m 37.35± 0.81s
39.523 N ± 7.1km 27.794 E ± 9.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

EDC	0.82	4	iPg	34	53.00	-0.3
			eSg	35	04.00	
BNT	0.84	7	iPg	34	53.10	-0.4
KCT	0.84	31	iPg	34	53.10	-0.6
			eSg	35	05.60	
EZN	1.17	285	iPn	34	59.40	0.2
IZM	1.20	200	iPn	34	59.50	-0.2
YLV	1.60	49	ePn	35	06.10	0.3
CTT	1.69	16	ePn	35	08.10	1.0

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

& MAY 14, 1993 07h 20m 48.70s
62.009 N 150.789 W
DEPTH = 57.2km
CENTRAL ALASKA (1)
<AEIC>. ML 2.7 (AEIC).

SKT	0.35	266	iPc	20	58.27	-0.8
			eS	21	06.48	
CUT	0.47	31	eP	20	59.61	-0.5
SUA	0.55	178	ePd	21	00.98	-0.2
			eS	21	11.06	
PWA	0.56	129	P	21	00.80	-0.4
			S	21	10.20	
PLRM	0.89	117	ePd	21	04.61	-0.7
			eS	21	18.90	
CGLM	0.91	220	eP	21	05.05	-0.7
GHO	0.91	104	eP	21	05.20	-0.5
			eS	21	18.62	
PMS	0.97	142	P	21	06.10	-0.3
CRP	0.99	222	ePc	21	05.50	-1.3
			eS	21	18.99	
CPAM	1.00	221	iPc	21	06.16	-0.7
CP2	1.02	224	ePc	21	06.23	-1.0
			eS	21	20.27	
SPU	1.03	217	iPc	21	06.37	-0.8
			eS	21	21.21	
CKN	1.03	221	ePc	21	06.79	-0.5
CKT	1.06	220	ePc	21	06.77	-0.9
BGL	1.07	226	ePc	21	07.22	-0.6
CKL	1.10	223	iPc	21	07.51	-0.8
HUR	1.11	28	eP	21	07.01	-1.3
			eS	21	21.78	
SML	1.18	99	iPc	21	08.62	-0.7
NKA	1.29	190	eP	21	12.37	1.7
PTE	1.43	143	ePc	21	11.73	-0.9
TRF	1.47	9	ePd	21	11.83	-1.5
			eS	21	30.88	
SLKM	1.53	169	ePc	21	13.70	-0.4
SCM	1.65	95	ePc	21	14.86	-0.9
			eS	21	36.65	
RND	1.66	32	ePd	21	14.51	-1.5
			eS	21	35.06	
MPA	1.67	155	eP	21	15.41	-0.7
DFR	1.69	214	eP	21	15.68	-0.7
NCT	1.78	216	eP	21	17.19	-0.5
RDW	1.82	213	eP	21	17.83	-0.4
MCK	1.93	25	eP	21	18.44	-1.2
			eS	21	41.81	
SEW	2.02	161	eP	21	21.90	1.0
INE	2.25	211	eP	21	24.22	0.0
INW	2.26	211	eP	21	22.91	-1.5
VLZ	2.31	110	ePc	21	22.89	-2.0
			eS	21	51.26	
KLU	2.37	100	iPc	21	24.37	-1.6
			eS	21	52.97	
SVW	2.48	251	ePc	21	25.09	-2.4
CNPM	2.50	185	eP	21	27.95	0.2
SDG	2.51	76	ePc	21	27.06	-0.8
TTA	2.60	293	ePc	21	26.32	-2.8
PAX	2.65	66	ePd	21	28.91	-1.0
			eS	22	00.97	
WRH	2.76	25	ePc	21	29.04	-2.3
CVA	2.84	119	eP	21	30.86	-1.7
HDA	2.97	34	ePc	21	32.18	-2.2
CCB	2.97	26	ePc	21	31.80	-2.6
MLY	3.03	0	eP	21	33.09	-2.3
SGAM	3.09	117	eP	21	34.13	-2.0
MDM	3.18	20	eP	21	34.85	-2.5
FBA	3.20	24	ePc	21	34.77	-2.9
			eS	22	10.14	
GLM	3.36	26	ePc	21	37.29	-2.6
GLB	3.37	97	eP	21	37.81	-2.3
CDD	3.40	206	eP	21	41.47	1.0
TGL	4.03	105	eP	21	47.20	-2.2
BALM	4.16	100	eP	21	48.12	-3.1
IMA	4.27	344	eP	21	49.30	-3.5
CTGM	4.65	99	eP	21	55.57	-2.6
YAH	4.68	107	eP	21	56.32	-2.3

55 obs. associated

% MAY 14, 1993 07h 33m 28.06± 0.54s
40.942 S ± 4.1km 174.547 E ± 4.2km
DEPTH = 69.2 ± 9.0 km
COOK STRAIT, NEW ZEALAND (163)

KIW	0.29	74	Pc	33	39.00	-0.2
			S	33	46.00	
MRW	0.31	158	P	33	39.30	-0.1
			S	33	46.40	
TCW	0.34	217	Pd	33	39.30	-0.3
WEL	0.38	154	P	33	39.90	0.0
			S	33	47.80	
CAW	0.43	113	Pc	33	40.30	0.0
DIW	0.49	286	P	33	40.20	-0.7
MOW	0.72	132	Pc	33	43.50	0.2
MTW	0.75	107	Pc	33	43.80	0.1
MNG	0.78	66	P	33	44.20	0.1
			S	33	55.80	
BLW	0.82	122	P	33	44.70	0.2
CCW	0.85	197	eP	33	45.70	0.9
BSZ	1.18	15	P	33	50.00	0.9
THZ	1.48	236	P	33	53.50	0.2
			S	34	12.70	
ORZ	1.53	274	P	33	53.60	-0.3
			S	34	12.00	
KHZ	1.66	207	Pd	33	55.80	0.3
			S	34	14.20	
NRZ	1.67	343	P	33	56.30	0.6
WAHZ	1.86	49	P	33	57.50	-0.9
CNZ	1.90	24	P	33	59.60	0.6
NGZ	1.94	25	P	33	59.90	0.3
DSZ	2.22	248	P	34	03.10	-0.2
MOZ	2 44	5	P	34	06.90	0.5
			S	34	34.90	
LTZ	2.51	222	P	34	06.80	-0.5
			eS	34	33.80	
WHH	2.54	37	eP	34	06.30	-1.6
URZ	3.33	37	P	34	16.00	-2.8X
			eS	34	54.10	
HBZ	4.43	42	P	34	30.50	-3.8X

S.D. = 0.6 on 23 of 25 obs.

% MAY 14, 1993 07h 34m 48.84± 0.81s
40.500 N ± 8.1km 23.611 E ±11.9km
DEPTH = 10.0km (geophysicist)
GREECE (364)

OUR	0.33	120	iPg	34	55.25	-0.4
SOH	0.38	329	ePg	34	55.98	-0.6
PAIG	0.57	175	ePg	35	00.78	0.3
SRS	0.62	359	iPg	35	01.93	0.7
KNT	0.85	321	ePg	35	05.30	0.0
			eSg	35	18.30	

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

MAY 14, 1993 10h 00m 27.39± 0.20s
2.374 N ± 3.6km 126.741 E ± 5.2km
DEPTH = 35.6km (3 depth phases)
5.3mb (41 obs.)
NORTHERN MOLUCCA SEA (266)
Mw 5.2 (HRV).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 27S, 34C
Centroid Location:
Origin Time 10:00:33.7 0 4
Lat 2.80N 0.06 Lon 126.88E 0.06
Dep 52.6 3.7 Half-duration 1.0
Moment Tensor; Scale 10**16 Nm
Mrr= 4.45 0.32 Mtt=-0.18 0.40
Mff=-4.27 0.51 Mrt= 3 58 0.63
Mrf=-4.49 0.52 Mtf=-4 61 0.41
Principal Axes:

T	Val= 9 26	Plg=49	Azm= 40
N	-1.64	39	198
P	-7.62	11	297

Best Double Couple:Mo=8.4*10**16
NP1:Strike= 65 Dip=48 Slip= 148
NP2. 178 67 47

DAV		4	82	346	eP	01 42.00	2.4
CTB		5.42	332	eP	01 54.00	6.0X	
				eS	02 55.00		
CGP		6.37	341	eP	02 04.00	2.6	
				eS	03 19.50		
MAP		8.36	341	ePd	02 31.00	1.8	
PLP		8.91	349	ePd	02 39.00	2.2	
TSM		9.06	282	iPd	02 41.00	2.2	
		0.6s	317.00nm			6.6mb X	
KKM		11.11	289	ePd	03 08.50	1.4	
		0.7s	85.40nm			6.0mb	
PGP		12.45	333	eP	03 26.00	0.9	
BCP		15.20	337	eP	04 07.00	5.5X	
KHKI		15.40	226	ePd	04 10.30	6.5X	
				e	06 41.70		
MDG		20.47	112	eP	05 06.40	1.5	
GUMO		21.10	57	eP	05 12.10	0.7	
GUA		21.12	57	eP	05 11.70	0.2	
LEM		21.16	244	iPd	05 17.80	5.6X	
		1.0s	90.00nm			5.1mb	
HKC		23.27	329	eP	05 33.20	0.4	
WB2		23.40	162	iPd	05 33.50	-0.7	
		0.3s	88.20nm			5.7mb	
MBL		24.35	196	eP	05 42.50	-0.8	
IPM		25.76	276	ePc	05 57.60	0.8	
QIS		26.05	152	eP	05 59.10	-0.3	
ASPA		26.81	165	eP	06 05.10	-1.3	
		0.3s	27.90nm			5.4mb	
				eS	10 50.90		
NANU		27.09	203	eP	06 09.20	0.3	
WARB		28.39	180	eP	06 18.60	-2.1	
LOE		28.75	303	iPc	06 22.90	-1.1	
SSE		29.04	350	Pd	06 27.70	1.2	
		1.2s	30 00nm			4.9mb	
	Z	20s	46.00um			6.1MszX	
	E	10s	24.00um				
				S	11 13.00		
NST		29.36	298	iPc	06 29.00	-0.5	
CTA		29.41	140	iPc	06 29.00	-1.0	
		1.0s	6.25nm			4.3mb X	
MEEK		29.89	195	eP	06 32.00	-2.2	
KHT		30.39	296	eP	06 37.90	-0.8	
BDT		31.00	300	eP	06 36.00	-8.0X	
		1.0s	82.80nm			5.5mb	
CHTO		31.74	303	iPd	06 49.60	-1.0	
		0.8s	42.46nm			5.4mb	
KMI		32.35	316	Pc	06 55.70	-0.4	
		1.5s	90.00nm			5.4mb	
	Z	20s	1.20um			4.6Msz	
	E	10s	0.50um				
				pP	07 21.00	114kmX	
				sP	07 53.00		
WKYJ		32.74	14	P	06 58.70	-0.5	
FORT		32.99	178	eP	07 00.30	-1.0	
		0.5s	28.00nm			5.4mb	
MRWA		33.06	197	eP	07 01.50	-0.4	
YONJ		33.24	10	P	07 03.30	-0.1	
COOL		33.50	189	eP	07 05.00	-0.8	
TSRJ		34.09	14	P	07 10.20	-0.6	
BAL		34.16	196	eP	07 11.50	0.0	
KLB		34.84	193	eP	07 17.00	-0.3	
CHJJ		35.38	17	P	07 19.70	-2.1	
MTMJ		35.54	15	P	07 22.00	-1.3	
MUN		35.60	195	eP	07 24.10	0.4	
MAT		35.61	16	eP	07 22.00	-1.8	
		1.5s	141.67nm			5.7mb	
				eS	12 56.00		
NWAO		36.24	194	eP	07 31.00	1.8	
NIIJ		36.49	17	P	07 29.10	-2.0	
STK		36.87	159	iPc	07 33.50	-0.9	
		0.7s	24.20nm			5.2mb	
				iPcP	09 55.70		
YAMJ		37.65	17	P	07 40.90	-0.1	
RKG		37.87	193	eP	07 44.00	1.2	
BJI		38.70	347	eP	07 49.00	-0.7	
		1.6s	141.00nm			5.5mb	
	Z	24s	0.64um			4.4MszX	
				eS	13 40.00		
				eSS	16 20.00		
BRS		38.79	141	iPc	07 49.50	-1.2	
OFUJ		38.99	19	P	07 52.00	-0.1	
LZH		39.67	330	P	07 58.00	-0.1	

| | | |

14d 10h

			eS	41	05.23	
INW	1.21	292	eP	40	49.09	-1.1
			eS	41	04.70	
RDW	1.28	312	ePc	40	50.22	-1.1
			eS	41	06.99	
SYI	1.28	218	eP	40	50.68	-0.4
AUE	1.29	259	eP	40	51.15	-0.1
DFR	1.31	318	ePc	40	50.44	-1.2
			eS	41	07.41	
AUL	1.32	260	eP	40	51.53	-0.1
AUI	1.33	258	eP	40	51.25	-0.5
			eS	41	08.85	
AUH	1.33	259	eP	40	51.79	0.0
AUW	1.34	260	eP	40	51.89	0.0
NCT	1.38	313	eP	40	51.41	-1.2
PTE	1.55	36	eP	40	55.17	0.3
CDD	1.58	245	ePc	40	54.68	-0.6
			S	41	14.79	
SPU	1.66	340	ePc	40	55.76	-0.7
PDB	1.68	277	eP	40	56.25	-0.5
CKT	1.70	338	eP	40	56.27	-0.9
CKN	1.72	339	eP	40	56.68	-0.7
CKL	1.72	336	eP	40	56.14	-1.3
CPAM	1.74	340	eP	40	57.64	-0.1
PMS	1.75	22	P	40	59.00	1.3
CRP	1.75	340	eP	40	57.12	-0.8
			eS	41	17.71	
CP2	1.77	338	eP	40	57.92	-0.3
			eS	41	19.39	
BGL	1.80	336	eP	40	58.05	-0.4
MCNL	1.82	257	eP	40	58.81	0.1
SUA	1.84	2	eP	40	58.85	-0.2
PMR	2.15	23	(P)	41	04.37	1.0
GHO	2.35	23	eP	41	06.70	0.3
SKT	2.38	353	ePc	41	06.34	-0.4
SML	2.52	29	eP	41	08.61	-0.2
SCM	2.82	37	ePc	41	12.66	-0.4
KLU	3.08	51	ePc	41	15.29	-1.5

38 obs. associated

% MAY 14, 1993 10h 51m 04.05± 1.86s
31.308 S ± 9.4km 69.157 W ±12.3km
DEPTH = 112.2 ± 18.2 km
SAN JUAN PROVINCE, ARGENTINA (137)

RTCB	0.35	120	iPc	51	20.70	0.0
RTBS	0.43	216	ePc	51	20.10	-0.8
RTLL	0.59	92	iPc	51	22.00	-0.1
RTCV	0.76	136	iPc	51	23.60	0.1
			S	51	39.00	
CFA	0.84	111	iPd	51	24.50	0.3
			S	51	40.90	
RTRS	1.16	347	iPc	51	27.70	0.3
			S	51	46.00	
MDZ	1.59	171	eP	51	33.10	0.5
			iS	51	55.00	
RTPR	2.49	67	ePd	51	44.20	0.3
			S	52	15.50	
MRA	3.13	111	ePc	51	42.20	-10.4X
TCA	3.91	92	ePd	52	02.50	-0.7
			S	52	47.00	

S.D. = 0.6 on 9 of 10 obs.

MAY 14, 1993 12h 23m 08.21± 0.86s
23.824 S ± 7.7km 179.848 W ± 5.1km
DEPTH = 528.1 ± 11.5 km
5.2mb (33 obs.)
SOUTH OF FIJI ISLANDS (171)

RAO	5.68	163	eP	24	42.90	-0.6
			S	25	45.00	
OUZ	12.71	205	P	25	56.10	1.5
DZM	12.75	275	iPd	25	56.90	1.6
			iS	28	23.90	
			ScP	33	33.20	
KUZ	13.43	195	P	26	02.20	0.2
HBZ	13.82	186	eP	26	07.80	1.8
WLZ	14.53	195	eP	26	15.40	2.3
URZ	14.62	190	eP	26	11.10	-2.9X
			eS	28	42.90	
NOZ	14.86	186	eP	26	17.30	1.0
CNZ	15.82	193	eP	26	26.80	0.8
QRZ	18.12	199	P	26	48.40	0.1
	0.3s		53.00nm			5.6mb
			eS	29	46.70	
THZ	18.88	197	eP	26	55.30	-0.4
DSZ	19.18	199	eP	26	58.40	-0.1
KHZ	19.34	195	eP	26	58.50	-1.4
			eS	30	03.40	
LTZ	20.00	197	eP	27	03.70	-2.6X
	0.4s		45.00nm			5.5mb
WVZ	20.72	200	eP	27	12.30	-0.5
ARMA	26.18	249	iPc	28	03.20	1.0
	0.8s		10.00nm			4.5mb
AFR	28.78	83	iPc	28	24.20	-0.7
	1.2s		395.10nm			5.9mb
PPT	28.96	83	iPc	28	25.80	-0.6
	0.9s		116.00nm			5.5mb
Z	27s		450.00um			6.9MszX
PPN	29.10	83	iPc	28	27.00	-0.6
	1.5s		259.10nm			5.6mb
TVO	29.19	84	iPc	28	27.80	-0.7
	0.9s		168.40nm			5.6mb
CAN	29.30	240	eP	28	29.50	0.2
PMO	31.33	80	iPc	28	46.20	-0.5
	1.0s		67.20nm			5.2mb
VAH	31.48	80	iPc	28	47.50	-0.5
	1.0s		115.20nm			5.4mb
TPT	31.58	80	iPc	28	48.50	-0.3
	1.2s		318.90nm			5.8mb
CTA	31.61	270	iPd	28	49.70	0.6
	1.0s		60.00nm			5.1mb
			iS	33	21.00	
RUV	31.72	80	iPc	28	49.50	-0.5
	1.0s		113.20nm			5.4mb
TOO	32.61	237	iPc	28	58.00	0.6
	0.3s		29.00nm			5.3mb
PMG	34.60	289	eP	29	12.00	-2.2
	0.5s		107.04nm			5.7mb
STK	34.88	248	iPd	29	16.80	0.3
	0.5s		4.90nm			4.3mb
			i	31	35.10	
			eS	34	09.00	
QIS	37.60	267	iPd	29	39.20	0.3
MDG	37.88	294	eP	29	42.00	0.7
ASPA	42.19	260	iPd	30	15.50	-0.4
	0.7s		62.50nm			5.3mb
			iPcP	31	58.00	
			iScP	34	59.20	
			iS	35	55.50	
WB2	42.54	266	iPd	30	18.00	-0.7
	0.3s		107.30nm			5.9mb
			eS	35	59.10	
WRA	42.55	266	P	30	18.40	-0.4
	0.8s		34.50nm			4.9mb
FORT	46.47	249	iPd	30	47.90	-1.2
	0.6s		91.00nm			5.5mb
MTN	47.59	274	eP	30	56.00	-1.8
WARB	48.27	255	iPd	30	59.20	-3.7X
COOL	52.37	249	eP	31	31.00	-2.0
KLB	55.14	247	iPd	31	51.20	-1.4
MEEK	55.27	253	eP	31	51.00	-2.6
RKG	55.37	243	eP	31	43.20	-11.0X
MBL	55.43	260	eP	31	50.20	-4.5X
	0.3s		14.00nm			4.8mb
			e	31	53.30	
BAL	56.19	248	iPd	31	58.40	-1.5
MUN	56.39	246	eP	32	00.00	-1.3
MRWA	57.04	250	iPd	32	04.50	-1.3
	0.5s		18.00nm			4.7mb
NANU	58.93	257	iPd	32	18.20	-0.5
	0.5s		59.00nm			5.2mb
CGP	62.93	294	iPd	32	53.80	9.0X
SPA	66.32	180	iPd	33	05.20	-0.5
	1.0s		15.00nm			4.5mb
KKM	69.01	287	ePd	33	21.00	-1.7
	0.7s		41.40nm			5.1mb
LEM	71.32	271	iPd	33	36.30	-0.1
MAT	71.91	326	eP	33	39.00	-0.2
	1.0s		30.00nm			4.8mb
OFUJ	72.19	329	P	33	40.90	0.2
TKSJ	72.29	321	P	33	42.10	0.7
YONJ	73.49	322	P	33	48.60	0.3
KUSJ	74.15	334	P	33	52.40	0.6
MRRJ	75.14	331	eP	33	58.20	1.0
ASAJ	75.84	333	P	34	03.10	2.0
SKR	77.15	345	eP	34	06.20	-1.9
YSS	78.19	335	iPd	34	14.50	0.8
SSE	78.54	311	Pd	34	16.50	0.5
	1.0s		11.00nm			4.2mb
MGD	87.00	346	eP	34	57.00	-0.7
	0 8s		30.00nm			5.1mb
BJI	87.07	316	eP	34	59 00	0.6
	1.8s		96.00nm			5.2mb
NST	87.42	288	iPd	35	02.50	2.0
CP2	87.68	13	eP	35	00.54	-0.6
CRP	87.70	13	eP	35	00.15	-1.0
RMW	88.06	35	eP	35	04.44	1.4
KMI	89.35	298	Pd	35	11.00	1.4
	1.4s		80.00nm			5.4mb
CHTO	89.78	291	iPd	35	13.10	1.7
	1.0s		33.25nm			5.2mb
LTX	90.27	58	eP	35	14.08	0.4
ILT	91.45	0	iPd	35	18.40	0.4
	1.4s		18.00nm			4.9mb
IMA	91.80	10	eP	35	20.10	0.2
	1.0s		2.33nm			4.2mb X
FBA	91.85	13	eP	35	19.32	-0.6
	0.8s		4.06nm			4.5mb
BW06	92.55	44	(P)	35	23.60	-0.4
	1.2s		2.97nm			4.2mb
YKA	100.23	25	ePdiff	35	57.00	-1.0X
	1.1s		0.50nm			3.9mb X
GKN	105.39	294	PKP	40	31.20	-1.5X
MBC	106.38	13	ePKP	40	32.00	-0.9X
SUR	120.73	200	iPKPc	41	14.00	12.1X
	0.6s		35.00nm			
MAIO	127.88	298	iPKPc	41	15.60	0.2
LSZ	132.45	218	iPKPd	41	25.00	0.4
			i	44	03.00	
KAF	137.82	342	iPKP	41	32.70	-0.5X
	0.3s		1.60nm			
NUR	139.59	342	ePKP	41	35.00	-1.4
			eSKP	44	23.00	
KIV	139.92	311	ePKP	41	35.70	-2.1X
	1.5s		13.00nm			
UPP	141.96	346	iPKP	41	35.40	-5.3X
NB2	142.03	351	PKP	41	36.20	-4.7X
	0.9s		14.00nm			
HFS	142.50	349	ePKP	41	36.80	-4.8X
	0.5s		24.30nm			
KONO	143.59	352	iPKPc	41	41.50	-2.0X
KAC	146.13	5	ePKP	41	49.30	1.5
	1.2s		38.00nm			
KPL	146.25	6	ePKP	41	49.70	1.8
	1.1s		10.00nm			
KSB	146.40	5	ePKP	41	49.20	1.0
MUD	146.74	351	ePKP	41	51.70	3.0
	1.1s		12.00nm			
BSD	146.89	344	iPKPd	41	31.90	-17.1X
	0.8s		38.00nm			
KAS	146.98	310	ePKP	41	51.00	1.2
HRI	147.48	295	iPKPd	41	54.80	3.9X
JVI	147.96	292	iPKPd	41	56.00	4.4X
EKA	148.43	4	PKPd	41	55.20	3.7X
	1.0s		17.20nm			
RMN	148.70	290	iPKPd	41	57.50	4.6X
CSS	149.17	299	ePKP	41	58.00	4.7X
VRI	149.27	322	ePKP	41	58.50	5.4X
CVO	149.61	323	ePKP	41	57.50	3.8X
PSN	149.64	318	ePKP	41	59.00	5.3X
UZH	149.68	330	iPKPd	41	59.20	5.6X
	1.1s		100.00nm			
Z	20s		0.50um			5.3Msz
E	20s		1.00um			
			i	42	07.40	
PPCY	149.97	299	ePKP	42	13.90	19.4X
SPC	150.16	333	ePKP	42	00.60	6.0X
GBZT	150.21	312	ePKP	41	59.80	5.1X
KSP	150.27	339	ePKP	41	54.00	-0.4
	0.8s		70.00nm			
			id	42	00.70	
			i	42	09.40	
			e	44	08.00	
WIT	150.63	352	ePKP	42	02.00	7.1X
CLL	150.82	343	iPKP	42	01.50	6.3X
	1.1s		70.00nm			
			i	42	10.30	
			pPKP	44	09.00	
BRG	150.96	342	ePKP	41	54.60	-0.9
	0.9s		44.00nm			
			i	42	02.20	
			i	42	12.00	
			epPKP	44	09.70	
JMB	151.28	317	iPKPd	42	03.00	6.8X
WTS	151.41	351	iPKPd	42	02.80	6.7X
	0.9s		47.20nm			
PRU	151.56	340	iPKPd	42	03.00	6.6X
	1.1s		19.70nm			
			i	42	14.80	
PVL	151.63	319	iPKPd	42	04.00	7.3X

MOX	151.78	344	ePKP	42 03.90	7.2X
	1.4s	28.00nm			
			i	42 15.50	
SRO	152.03	333	e(PKP)	42 02.50	5.4X
			e	42 15.90	
ZST	152.20	335	ePKP	41 56.90	-0.4
			i	42 04.80	
			i	42 17.70	
KHC	152.62	341	PKP	41 57.50	-0.5
	1.0s	3.50nm			
			e	42 06.00	
			e	42 09.50	
ENN	152.73	352	ePKP	42 05.50	7.5X
			i	42 19.00	
GRF	152.76	344	ePKP	41 58.60	0.5
			ed	42 06.00	
			id	42 20.00	
GEC2	152.83	340	PKP	41 57.90	-0.5X
	1.0s	1.87nm			
			e	42 04.40	
			e	42 11.10	
			e	42 19.40	
RZN	152.87	317	iPKPd	42 05.00	6.2X
VTS	153.26	320	iPKPc	42 07.00	7.8X
MMB	153.54	318	iPKPd	42 07.00	7.5X
KKB	153.77	319	iPKP	42 08.00	8.3X
BCAO	153.81	225	iPKPc	42 00.00	-0.6
	1.0s	15.00nm			
			ic	42 08.40	
			ic	42 23.20	

S.D. = 1.1 on 81 of 124 obs.

% MAY 14, 1993 12h 35m 33.29± 1.81s
41.197 N ±19.9km 28.760 E ± 4.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

CTT	0.25	259	iPg	35 38.70	0.0
ISK	0.26	120	iPg	35 38.90	0.1
			iSg	35 42.90	
GBZT	0 66	128	ePg	35 46.50	0.1
			eSg	35 55.60	
HRT	0.78	118	iPg	35 48.50	-0.1
BNT	1.05	217	ePn	35 52.90	-0.3
EDC	1.09	219	ePn	35 54.00	0.2
EYL	1.23	120	ePn	35 56.20	-0.1

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

? MAY 14, 1993 13h 21m 34.87± 0.94s
26 364 S ± 6.9km 27.240 E ±11.6km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)

KSR	0.58	328	eP	21 46.50	-0.1
			S	21 58.00	
PRY	0.60	160	eP	21 46.50	-0.4
			SS	21 52.50	
SLR	1.13	57	eP	21 56.60	0.0
			S	22 09.20	
SEK	1.98	170	eP	22 10.00	0.4
			S	22 33.50	

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

? MAY 14, 1993 13h 31m 19.62± 0.90s
35.912 N ± 9.2km 23.843 E ±16.5km
DEPTH = 10.0km (geophysicist)
CRETE (370)
MD 3.5 (ATH).

VAM	0.58	150	iPbc	31 31.40	0.0
VLI	1 09	318	ePb	31 40.50	0.4
NPS	1.58	114	ePg	31 53.50	5.8X
AGG	3.33	339	eP	32 11.80	-1.0
PAIG	4.01	358	eP	32 22.34	0.0
OUR	4.42	1	eP	32 28.53	0.4
SOH	4.92	356	eP	32 35.70	0.4
SRS	5.20	358	eP	32 39.21	-0.1

S.D. = 0.6 on 7 of 8 obs.

MAY 14, 1993 13h 36m 24.36± 0.43s
43.162 N ± 4.5km 20.879 E ± 3.8km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
MD 3.1 (TTG). ML 3.0 (TIR).

IVA	0.78	248	iPgd	36 39.09	-0.4
			iSg	36 46.93	
PVY	0.87	230	iPgd	36 40.90	-0.4
			iSg	36 51.22	
PLE	1.10	279	iPgd	36 44.65	-0.4
			iSg	36 57.82	
SKO	1.26	161	iPn	36 47.50	-0.3
			iSn	37 03.80	
			Lg	37 07.00	
TTG	1.40	239	iPgd	36 50.05	0 2
			iSg	37 07.90	
NKY	1.42	256	iPgd	36 50.70	0.3
			iSg	37 07.85	
SDA	1.51	223	ePn	36 51.30	-0.1
			iSn	37 10.20	
PHP	1.51	193	ePn	36 50.40	-1.1
			iSn	37 10.90	
ULC	1.70	226	iPgd	36 56.15	1.9X
			iSg	37 19.02	
BRY	1.73	262	iPgc	36 56.00	1.2
			iSg	37 18.52	
BDV	1.75	241	iPgd	36 57.08	2.2X
			iSg	37 19.53	
LACI	1.75	210	ePn	36 56.00	1.0
			iSn	37 20.60	
HCY	1.89	249	iPnc	36 59.49	2.5X
			iSn	37 23.58	
TIR	1.96	203	ePn	36 59.50	1.5X
			iSn	37 25.50	
OHR	2.05	182	iPn	37 01.70	2.4X
			iSn	37 28.00	
			Lg	37 29.80	
VAY	2.23	145	iPn	37 01.00	-0.9
FNA	2.41	171	eP	37 07.42	3.0X
GRG	2.48	152	iP	37 05.26	-0.2
KNT	2.50	142	eP	37 06.98	1.3
			eS	37 50.06	
BZS	2.51	12	ePc	37 04.50	-1.3
GZR	2.61	31	ePd	37 11.50	4.1X
SRS	2.87	134	eP	37 11.78	0.7
			eS	37 56.62	
TPE	2.94	193	ePn	37 22.50	10.6X
HVAR	3.24	272	ePn	37 18.60	2.3X
LIT	3.29	158	eP	37 16.42	-0.5
TNR	3.48	43	ePc	37 30.00	10.4X
OUR	3.66	140	eP	37 21.46	-0.7
PAIG	3.86	146	eP	37 24.06	-0.9
AGG	4.28	165	iP	37 32.22	1.2
MLR	4.32	56	eP	37 33.00	1.3
PTJ	4.46	310	eP	37 33.00	-0.6
VBY	4.66	302	eP	37 37.00	0.5
			e	39 09.50	
VRI	4.98	55	eP	37 34.50	-6.4X

S.D. = 0.9 on 22 of 33 obs.

MAY 14, 1993 13h 37m 24.23± 0.64s
26.834 S ± 6.3km 26.666 E ± 6.3km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 3.8 (PRE). mbLg 3.6 (BUL).
This event may be o mine explosion which killed severol people.

BFS	0.12	121	iPd	37 26.90	0.0
PRY	0.73	98	iPc	37 37.60	-1.2
			S	37 45.50	
KSR	0.99	12	eP	37 44.50	1.0
			S	37 57.00	
SWZ	1.25	254	eP	37 49.90	2.0
			S	38 04.50	
SEK	1.71	150	iPd	37 55.50	0.5
			S	38 16.50	
SLR	1.82	53	iPd	37 57.60	1.1
			S	38 20.60	
BLF	2.31	190	iPd	38 03.50	-0.1
			S	38 29.90	
FRS	3.14	202	iPd	38 14.80	-0.4
			S	38 48.60	
BFT	3.24	70	eP	38 17.00	0.1
			S	38 55.50	
POF	6.45	245	eP	39 36.00	33.8X
			S	40 44.00	
GRM	6.46	181	eP	38 31.00	-31.4X
			S	39 19.00	
BUL	6.89	15	iPn	39 07.30	-1.3
			iSn	40 21.80	
			iSg	40 55.50	
CIR	7.33	39	iPn	39 15.60	1.0
			iSn	40 40.00	
			iSg	41 14.50	
SUR	7.52	221	eP	39 27.50	10.1X
			S	40 50.00	
CER	9.11	223	eP	39 36.00	-3.4X
			S	41 15.00	
WIN	9.68	294	eP	39 45.00	-2.4
			S	41 32.00	
MTD	11.00	26	iPn	39 58.00	-7.4X
			iSn	41 57.20	
			iSg	42 56.00	

S.D. = 1.3 on 12 of 17 obs.

? MAY 14, 1993 14h 11m 19.76± 4.71s
38.755 N ±42.9km 21.699 E ±10.6km
DEPTH = 10.0km (geophysicist)
GREECE (364)

AGG	0.56	61	ePg	11 31.54	0.4
			eSg	11 40.70	
IGT	1.32	307	ePb	11 43.86	-0.2
			iSb	12 02.58	
LIT	1.48	24	iPb	11 45.18	-1.2
			iSb	12 04.46	
FNA	2.04	353	ePn	11 55.98	1.4
			eSn	12 21.82	
GRG	2.26	14	ePn	11 57.46	-0.4
OHR	2.45	344	e(Pn)	12 04.00	3.5X

S.D. = 1.4 on 5 of 6 obs.

? MAY 14, 1993 14h 19m 02.35± 2.32s
31.242 S ±70.0km 68.718 W ±24.3km
DEPTH = 100.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.23	112	iPc	19 17.20	0.0
			S	19 28.70	
RTCB	0.25	196	iPd	19 17.20	-0.1
			S	19 29.00	
CFA	0.55	132	iPc	19 19.00	0.2
			S	19 32.40	
MRA	2.81	115	ePc	19 46.20	-0.1

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

? MAY 14, 1993 15h 11m 30.18± 3.06s
31.868 S ±56.1km 68.450 W ±20.0km
DEPTH = 100.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

CFA	0.32	35	ePc	11 44.70	-0.4
			S	11 58.20	
RTCB	0.48	322	iPd	11 46.10	-0.1
			S	11 57.00	
RTLL	0.54	358	iPc	11 46.00	-0.5
RTBS	0.88	283	e(P)c	11 50.00	0.5
			S	12 03.00	
RTPR	2.28	47	ePc	12 07.50	0.5

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

& MAY 14, 1993 15h 13m 41.10s
34.513 N 120.680 W
DEPTH = 6.0km (geophysicist)
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 2.8 (PAS).

BCH	0.83	36	eP	13 57.16	-0.5
			eS	14 08.72	
ABL	1.25	74	eP	14 03.14	-1.7
			eS	14 20.03	
PHAM	1.34	10	eP	14 03.24	-3.0
SSK	2.49	96	(P)	14 19.68	-3.3
GSC	3.2B	75	(P)	14 32.55	-1.6
BONR	3.94	29	(Pn)	14 42.08	-1.6

6 obs. associated

& MAY 14, 1993 15h 14m 45.35s
60.469 N 152.877 W
DEPTH = 159.7km
3.5mb (2 obs.)
SOUTHERN ALASKA (2)
<AEIC>.

RDW	0.04	68	P	15 06.00	0.5
			S	15 23.50	
NCT	0.10	344	iPc	15 05.90	0.5
			eS	15 22.53	

14d 15h

DFR	0.16	37	iPc	15	06.03	0.6
			eS	15	23.01	
INE	0.42	193	ePc	15	06.79	0.5
			eS	15	24.21	
INW	0.42	198	ePc	15	06.72	0.5
			eS	15	23.99	
CKL	0.78	20	iPc	15	08.91	-0.9
			eS	15	28.15	
CKT	0.80	24	iPc	15	08.87	-1.1
			eS	15	28.62	
SPU	0.82	29	iPc	15	08.88	-1.1
CKN	0.83	24	iPc	15	09.26	-0.8
BGL	0.83	16	iPc	15	09.41	-0.8
OPT	0.84	192	iPd	15	09.32	-0.8
			eS	15	28.21	
NKA	0.85	71	iPc	15	11.19	1.0
CP2	0.86	21	iPc	15	09.45	-1.0
CPAM	0.87	24	iPc	15	09.57	-0.9
CRP	0.88	23	iPc	15	09.09	-1.5
PDB	0.95	225	eP	15	08.83	-2.1
AUL	1.13	195	ePd	15	11.51	-0.9
AUE	1.14	193	iPd	15	11.41	-1.1
AUW	1.14	195	iPd	15	11.61	-0.9
AUH	1.14	195	iPd	15	11.72	-0.9
AUI	1.17	194	ePd	15	11.54	-1.2
			eS	15	32.26	
XLV	1.17	150	eP	15	12.70	-0.1
BRLK	1.22	124	eP	15	13.55	0.3
			eS	15	34.57	
CNPM	1.26	138	ePc	15	13.51	-0.1
			eS	15	35.23	
SLKM	1.32	87	iPc	15	13.26	-0.9
SUA	1.44	45	iPc	15	14.47	-1.1
MCNL	1.48	210	iPd	15	13.84	-2.0
SVW	1.49	297	eP	15	13.41	-2.5
CDD	1.59	194	iPd	15	15.38	-1.6
SKT	1.65	23	iPc	15	16.50	-1.1
			eS	15	41.16	
MPA	1.74	88	iPc	15	17.72	-0.8
PMS	1.80	63	P	15	18.10	-1.1
			S	15	45.80	
PWA	1.88	50	P	15	18.50	-1.5
SYI	1.88	172	eP	15	19.03	-1.0
			eS	15	45.31	
PTE	1.94	77	ePc	15	19.17	-1.5
			eS	15	47.04	
PLRM	2.14	57	eP	15	21.93	-1.1
PMR	2.14	57	eP	15	20.60	-2.5
GHO	2.32	54	iPc	15	23.39	-1.9
			eS	15	54.59	
SML	2.58	57	ePc	15	26.38	-2.0
KDC	2.74	176	ePd	15	26.85	-3.4
			eS	16	00.60	
TTA	2.89	330	ePd	15	27.92	-4.3
HUR	2.95	30	eP	15	31.25	-1.8
			eS	16	07.51	
SCM	3.02	61	eP	15	32.19	-1.7
HIN	3.16	89	eP	15	34.34	-1.3
TRF	3.23	21	ePc	15	34.86	-1.9
			eS	16	12.84	
VLZ	3.28	75	ePc	15	35.75	-1.3
			eS	16	16.50	
MID	3.45	105	P	15	39.50	0.2
RND	3.51	31	eP	15	38.08	-2.1
CVA	3.53	86	eP	15	39.39	-0.9
KLU	3.54	70	iPc	15	39.22	-1.4
MCK	3.76	28	P	15	43.50	0.1
SGAM	3.80	86	ePc	15	43.01	-0.8
TZL	3.93	63	eP	15	45.07	-0.5
RAGM	4.07	88	iPc	15	46.72	-0.7
SDG	4.08	56	eP	15	46.78	-0.7
PAX	4.33	51	eP	15	49.88	-1.0
NEA	4.48	21	eP	15	49.58	-3.2
GLB	4.53	74	iPd	15	52.77	-0.7
WRH	4.59	27	ePc	15	51.47	-2.8
MLY	4.68	11	eP	15	51.77	-3.8
CCB	4.80	27	eP	15	54.21	-2.8
CROM	4.81	82	iPc	15	57.12	-0.2
HDA	4.81	32	ePd	15	54.78	-2.4
TGL	4.96	82	eP	15	59.08	-0.2
MDM	4.99	23	eP	15	56.53	-3.0
SNH	5.00	89	P	15	59.40	-0.3
FBA	5.03	26	eP	15	56.89	-3.1
CYK	5.19	90	eP	16	02.53	0.4
GLM	5.19	27	iPc	15	59.68	-2.5
BALM	5.20	79	eP	16	01.82	-0.6
YAH	5 52	86	eP	16	07.05	0.3
IMA	5.63	357	P	16	05.40	-2.8
CTGM	5.69	80	eP	16	08.88	-0.1
INK	11 43	38	eP	17	24.50	-0.2
YKA	18.21	67	eP	18	45.90	-2.5
	0.5s		0.50nm			3.1mb
YKA	18.21	67	eP	19	05.90	17.5
	0.6s		0.40nm			
MBC	19.56	23	eP	19	02.50	0.2
	1.0s		4.00nm			3.8mb
	77 obs. associated					

& MAY 14, 1993 16h 02m 50.28s
60.700 N 152.076 W
DEPTH = 84.6km
SOUTHERN ALASKA (2)
<AEIC>.

DFR	0.32	250	iPc	03	02.74	-0.8
NKA	0.41	84	iPc	03	05.22	1.3
RDW	0.42	239	P	03	03.40	-0.9
NCT	0.44	252	iPc	03	03.67	-0.7
			eS	03	14.23	
SPU	0.48	1	iPc	03	03.84	-0.8
			eS	03	14.71	
CKT	0.51	353	iPc	03	04.04	-0.8
			eS	03	14.95	
CKL	0.51	346	iPc	03	04.21	-0.7
CKN	0.53	354	iPc	03	04.44	-0.5
CPAM	0.56	357	iPc	03	04.74	-0.6
CRP	0.57	356	iPc	03	04.31	-1.2
			eS	03	15.14	
CP2	0.57	352	iPc	03	04.66	-0.9
			eS	03	15.32	
BGL	0.59	345	iPc	03	04.90	-0.6
CGLM	0.61	3	eP	03	05.18	-0.6
INE	0.81	218	iPd	03	06.82	-1.0
			eS	03	19.62	
INW	0.82	220	iPd	03	07.04	-0.9
			eS	03	20.35	
SLKM	0.94	101	iPc	03	08.52	-0.6
SUA	1.00	40	iPc	03	09.63	-0.4
			eS	03	25.49	
BRLK	1.11	147	eP	03	10.90	-0.4
			eS	03	27.08	
OPT	1.20	209	iPd	03	11.93	-0.4
			eS	03	28.17	
CNPM	1.25	160	iPc	03	12.59	-0.4
			eS	03	30.49	
SKT	1.31	11	eP	03	12.79	-1.0
			eS	03	32.74	
PMS	1.34	65	P	03	14.00	-0.2
			S	03	32.60	
MPA	1.36	98	iPc	03	13.61	-0.7
PDB	1.40	230	ePd	03	13.70	-1.1
PWA	1.43	47	P	03	15.80	0.6
SEW	1.43	114	eP	03	14.44	-0.8
AUL	1.49	208	ePd	03	15.48	-0.5
AUE	1.49	206	iPd	03	15.36	-0.7
AUH	1.51	208	iPd	03	15.80	-0.5
AUW	1.51	208	iPd	03	15.76	-0.5
PTE	1.51	82	ePd	03	15.24	-1.0
AUI	1.53	207	eP	03	15.75	-0.8
PLRM	1.69	57	eP	03	17.50	-1.1
PMR	1.69	57	eP	03	16.45	-2.1
SVW	1.78	285	eP	03	17.74	-2.2
GHO	1.87	53	iPd	03	19.94	-1.2
			eS	03	43.83	
MCNL	1.90	218	iPd	03	20.43	-1.1
CDD	1.94	205	iPd	03	21.47	-0.7
SYI	2.10	184	iPd	03	23.73	-0.5
SML	2.12	57	iPd	03	23.07	-1.5
HUR	2.56	26	eP	03	30.25	-0.3
HIN	2.77	94	eP	03	31.48	-1.9
VLZ	2.84	79	iPc	03	31.95	-2.3
TRF	2.89	16	iPd	03	33.71	-1.4
TTA	2.91	322	eP	03	35.02	-0.4
KDC	2.97	184	eP	03	34.63	-1.4
KLU	3.09	72	iPd	03	35.46	-2.5
RND	3.11	28	eP	03	37.68	-0.5
CVA	3.12	90	P	03	38.70	0.5
MCK	3.38	24	P	03	41.00	-0.8
SGAM	3.39	90	P	03	40.20	-1.8
TZL	3.47	64	eP	03	41.27	-1.8
SDG	3.62	57	eP	03	43.79	-1.3
PAX	3.87	51	eP	03	47.43	-1.3
THY	4.04	45	eP	03	50.70	-0.3
GLB	4.08	76	eP	03	48.86	-2.8
WRH	4.21	24	eP	03	51.04	-2.3
CROM	4.39	85	eP	03	55.04	-1.0
HDA	4.41	30	eP	03	54.23	-1.9
CCB	4.42	25	eP	03	53.59	-2.7
BALM	4.77	82	eP	03	57.98	-3.3
GLM	4.81	24	eP	03	59.34	-2.4
YAH	5.11	89	eP	04	03.18	-3.0
CTGM	5.26	82	eP	04	06.07	-2.1
	64 obs. associated					

& MAY 14, 1993 17h 23m 47.89s
36.106 N 117.700 W
DEPTH = 0.6km
CALIFORNIA-NEVADA BORDER REGION (40)
<PAS-P>. ML 2.9 (PAS).

ISA	0.77	235	ePc	24	02.28	-0.9
			eS	24	12.88	
TPNV	1.44	54	eP	24	14.28	-1.0
ABL	1.76	225	eP	24	20.07	0.0
MEMM	1.85	328	ePn	24	20.94	-0.1
SSK	1.89	180	(Pn)	24	21.41	-0.4
			ePg	24	23.81	
			eS	24	45.09	
BONR	1.91	346	ePn	24	22.79	0.6
PKEM	1.95	269	ePn	24	23.24	0.7
TNP	2.01	11	ePn	24	24.06	0.5
			ePg	24	25.78	
BCH	2.15	245	ePn	24	25.40	-0.1
PHAM	2.21	264	(P)	24	25.91	-0.3
PEC	2.25	169	(P)	24	26.81	-0.2
			eS	24	59.52	
PLM	2.83	166	ePn	24	33.11	-2.3
			ePg	24	40.12	
			eS	25	15.14	
CMB	2.88	313	ePn	24	34.04	-1.9
			eS	25	16.51	
KVN	2.96	354	(P)	24	36.92	-0.2
	14 obs. associated					

? MAY 14, 1993 17h 41m 13.10± 0.68s
12.558 N ± 6.7km 144.849 E ±31.7km
DEPTH = 33.0km (normal)
SOUTH OF MARIANA ISLANDS (210)

GUA	0.98	4	Pg	41	31.00	0.5
			eS	41	44.10	
GUMO	1.02	1	Pn	41	30.60	-0.6
			Pg	41	31.00	
			eS	41	43.80	
PJG	1.02	1	eP	41	31.20	0.0
WB2	33.91	198	iPc	47	55.60	0.2
	0.5s		6.30nm			4.8mb
ASPA	37.56	197	eP	48	26.10	-0.2
	0.4s		4.30nm			4.7mb
DZM	40.41	148	iPc	48	50.10	0.0
	S.D. = 0.5		on	6	of 6	obs.

• MAY 14, 1993 17h 53m 34.80± 1.33s
38.507 N ± 7.4km 20.482 E ±15.6km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 2.9 (ATH).

VLS	0.34	166	iPgd	53	42.00	0.2
IGT	1.03	354	ePg	53	53.64	-0.6
			eSg	54	08.44	
KEK	1.32	336	ePb	54	01.80	2.7X
AGG	1.53	70	ePb	54	00.73	-1.5
			eSb	54	24.32	
KZN	2.06	29	ePn	54	11.50	1.6
LIT	2.23	44	ePn	54	12.52	0.2
OHR	2.61	5	ePn	54	17.50	-0.3
PAIG	2.86	59	ePn	54	21.76	0.5
	S.D. = 1.2		on	7	of 8	obs.

? MAY 14, 1993 18h 16m 55.94± 1.27s
31.603 S ±37.5km 69.300 W ±17.0km
DEPTH = 120.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTBS	0.14	246	iPd	17	12.80	0.0
			S	17	24.00	
RTCB	0.44	75	iPd	17	14.00	0.1
			S	17	26.40	
RTLL	0.76	69	eP	17	16.00	-0.1
			(S)	17	28.50	

```
CFA      0.90  91 ePc    17 17.50    0 1
                 S      17 33.00
MRA      3.16 106 ePc    17 44.90   -0.1
     S.D. = 0.1  on   5 of   5 obs.
-------------------------------------
? MAY 14, 1993  18h 32m 09.21± 0.61s
   55.959 S ±16.5km   27.199 W ±18.4km
   DEPTH =  33.0km  (normal)
   5.1mb (  5 obs.)
 SOUTH SANDWICH ISLANDS REGION   (153)

SPA     34.22 180 iPc    38 54.30    0.7
        0.6s     20.73nm          5.2mb
SIV     47.51 313 P      40 54.80   11.8X
ZOBO    50.33 305 P      41 04.20   -1.2
BUL     54.55  73 iPd    41 36.40    0.0
        0.8s      4.10nm          4.5mb
LSZ     58.35  69 iPd    42 04.00    0.5
BCAO    70.86  49 iPd    43 23.60   -1.0
        0.2s     12.00nm          5.6mb
TAU     81.39 176 iPd    44 22.70   -0.9
STK     91.99 170 eP     45 14.90   -0.7
        0.4s      1.90nm          4.9mb
ASPA    99.08 162 eP     45 47.40   -0.7
        0.8s      6.50nm          5.2mb
INK    145.73 321 ePKP   51 43.50   -0.6
        0.5s      5.00nm
BALM   147.00 306 ePKP   51 46.20   -0.4
KLU    148.78 306 iPKPc  51 51.56    2.2
                  e      51 55.23
PMR    150.28 305 (PKP)  51 54.43    2.9X
FBA    150.46 312 (PKP)  51 53.93    2.2
SLKM   150.48 303 ePKPc  51 54.93    3.0X
     S.D. = 1.3  on  12 of  15 obs.
-------------------------------------
   MAY 14, 1993  19h 06m 51.99± 1.09s
   50.520 N ±12.7km   18.875 E ± 6.0km
   DEPTH =  10.0km  (geophysicist)
 POLAND                          (548)
      ML 3.9 (WAR), 3.5 (VIE).

RAC      0.62 225 iP     07 03.80   -0.6
                 iS     07 11.80
OJC      0.66 117 iPgc   07 05.00   -0.2
                 iSg    07 14.80
SPC      1.60 146 iPnd   07 20.60    0.0
                 i(Sn)  07 42.70
                 Lg     07 44.00
KSP      1.67 282 ePn    07 21.80    0.3
                 iPg    07 24.90
                 iS     07 47.50
SRO      2.73 188 i(Pn)  07 42.80    6.1X
                 i      08 24.50
VKA      2.81 217 eP     07 39.00    1.3
                 i      08 09.70
                 i(Sg)  08 19.30
PRU      2.83 261 Pn     07 37.40   -0.7
                 e      07 42.00
BRG      3.15 278 iPg    07 51.00    8.4X
                 iSg    08 34.10
KHC      3.70 250 Pn     07 50.00   -0.5
       0.5s     22.40nm
                 ePg    08 04.00
                 Sg     08 47.70
GEC2     3.75 245 Pn     07 50.20   -1.1
                 Pg     08 00.70
                 Sg     08 48.10
CLL      3.80 284 ePg    08 06.00   14.2X
                 iSg    08 58.80
WET      4.12 253 iPnc   07 56.90    0.6
HOF      4.48 270 ePn    08 09.50    8.1X
MOX      4 63 274 ePg    08 20.20   16.6X
                 iSg    09 20.50
GRF      4.99 263 ePn    08 09.30    0.6
                 ePg    08 23.10
                 e(Sg)  09 17.30
KBA      5.02 229 iPnc   08 09.50    0.2
                 iSg    09 28.40
     S.D. = 0.8  on  11 of  16 obs.
-------------------------------------
% MAY 14, 1993  20h 14m 42.77± 2 84s
   23.430 S ±15.5km  114.293 E ±27.4km
   DEPTH =  10.0km  (geophysicist)
   4.3mb (  2 obs.)
 WESTERN AUSTRALIA               (590)

MEEK     5.06 130 eP     16 07.00    6.5X
        0 2s     35.00nm          5.6mb X
                 eS     17 12.00
MBL      5.61  67 eP     16 09.00    0.8
        0.2s     21.00nm          5.5mb X
MRWA     5.96 166 eP     16 14.40    1.2
        0.2s     13.00nm          5.3mb X
                 eS     17 24.50
BAL      7.46 164 eP     16 35.30    1.0
        0.3s      4.00nm          5.2mb X
                 eS     18 01.00
MUN      8.68 169 eP     16 50.70   -0.6
                 eS     18 28.00
KLB      8.69 160 eP     16 51.00   -0.5
        0.3s      4.00nm          5.3mb X
                 eS     18 29.00
COOL     9.61 142 eP     17 05.30    1.2
                 eS     18 54.00
NWAO     9.81 165 eP     17 04.90   -2.0
                 eS     18 54.00
RKG     11.35 169 eP     17 28.50    0.5
                 eS     19 25.00
WARB    11.55 106 eP     17 29.00   -1.8
                 eS     19 45.00
FORT    14.27 124 eP     18 07.00    0.0
        0.4s     25.00nm          5.3mb X
                 eS     20 48.00
ASPA    17.98  95 eP     18 54.90    0.3
        0.7s      9.50nm          4.0mb
                 eS     22 11.20
WB2     18.96  83 eP     19 07.20    0.6
        0.2s      6.80nm          4.5mb
MTN     19.13  60 eP     19 08.00   -0.7
STK     25.55 115 eP     20 29.70   16.3X
        0.8s      3.20nm
                 eS     25 15.00
     S.D. = 1.2  on  13 of  15 obs.
-------------------------------------
% MAY 14, 1993  21h 06m 33.83± 1.93s
   38.053 N ±32.7km   14.163 E ± 8.8km
   DEPTH =  10.0km  (geophysicist)
 SICILY                          (398)

GIB      0.12 240 P      06 35.20   -1.8
                 eSg    06 38.30
MNO      0.44 106 P      06 42.50   -0.3
                 eSg    06 48.00
MCT      0.59 225 P      06 46.80    0.8
CVT      1.15 251 P      06 56.10    0.8
SOI      1.49  89 P      07 01.10    0.4
     S.D. = 1.6  on   5 of   5 obs.
-------------------------------------
% MAY 14, 1993  21h 25m 54.84± 0.44s
   38.086 N ± 5.0km   14.171 E ± 4.0km
   DEPTH =  10.0km  (geophysicist)
 SICILY                          (398)
      MD 2.9 (ROM).

GIB      0.15 230 P      25 56.60   -1.8
                 eSg    25 58.80
MNO      0.44 110 P      26 03.60   -0.3
                 eSg    26 11.20
MCT      0.62 223 P      26 07.50    0.0
                 eSg    26 15.20
FAI      0.90 206 P      26 14.10    2.0
ATN      1.02  85 P      26 14.30    0.1
MEU      1.15 148 P      26 16.10   -0.4
CVT      1.16 250 P      26 17.30    0.7
PZI      1.21 150 P      26 16.65   -0.7
ERC      1.25 268 P      26 17.90   -0.2
GMB      1.34  86 P      26 19.95    0.4
SOI      1.49  90 P      26 22.40    0.8
CZI      1.91  53 P      26 27.50   -0.2
GRI      1.91  67 P      26 27.06   -0.7
TDS      2.31  46 P      26 34.00    0.5
MGR      2.31  27 P      26 33.00   -0.6
CSI      2.36  44 P      26 34.90    0.6
ROI      2.39  51 P      26 34.40   -0.3
     S.D. = 0.9  on  17 of  17 obs.
-------------------------------------
   MAY 14, 1993  21h 29m 45.04± 0.14s
   10.823 S ± 3.1km  161.358 E ± 3.3km
   DEPTH =  24.6km  ( 22 depth phases)
   5.4mb ( 46 obs.)  5.2Msz ( 12 obs.)
 SOLOMON ISLANDS                 (193)
      Mw 5.4 (HRV).
      CENTROID, MOMENT TENSOR    (HRV)
      Doto Used: GDSN

      L.P.B.: 36S, 60C
      Centroid Location:
      Origin Time       21:29:50.8 0.2
      Lot 10.84S 0.03 Lon 161.55E 0.03
      Dep  31.7 2.2 Half-duration  1.3
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 1.36 0.04  Mtt=-1.53 0.06
        Mff= 0.17 0.08  Mrt= 0.41 0.12
        Mrf=-0.40 0.09  Mtf= 0.55 0.05
       Principol Axes:
        T  Vol=  1.50  Plg=75  Azm= 70
        N        0.27      12      290
        P       -1.77       9      198
      Best Double Couple:Mo=1.6*10**17
       NP1:Strike=273 Dip=37 Slip=  70
       NP2:       118     56      105

HNR      1.96 315 iP     30 02.50  -14.8X
                 iS     30 30.50
BKM      9.53 136 iPc    32 02.50   -1.4
                 iS     33 40.00
RAB     11.24 305 eP     32 36.00    8.6X
                 iS     34 12.00
DZM     12.20 157 iPc    32 40.00   -0.4
                 iS     34 44.80
PMG     14.05 274 eP     33 16.00   11.2X
CTA     17.21 236 P      33 51.40    5.8X
CTA     17.21 236 iPd-   33 48.00    2.4
        2.0s    941.18nm          5.6mb
     Z  18s     17.18um           5.1Msz
                 ipP    34 04.00
                 e      34 13.00
                 eS     36 46.00
VUN     18.03 115 ePc    33 57.00    1.2
SVA     18.07 116 eP     33 57.30    1.1
BRS     18.35 205 iPd+   34 02.00    2.3
        1.5s     30.00nm          4.2mb X
     Z  19s     44.00um           4.6Msz
                 i      34 22.00
                 eS     37 30.00
ARMA    21.50 203 iPd    34 35.80    1.5
        1.0s    100.00nm          5.2mb
OIS     23.04 243 iPd    34 53.10    3.4X
CNB     26.71 202 eP     35 25.20    0.7
        0.7s     31.00nm          5.0mb
CAN     26.85 203 eP     35 26.80    1.1
                 e      35 36.10   33km
WB2     27.54 248 iP     35 32.60    0.5
        0.6s     23.20nm          5.0mb
STK     27.80 218 iPd    35 35.30    1.0
        0.6s      5.10nm          4.4mb
                 eS     40 37.40
ASPA    29.10 240 eP     35 45.10   -1.1
        0.4s     18.10nm          5.2mb
     Z  21s      5.10um           5.1Msz
                 eS     40 36.30
MTN     29.65 263 eP     35 51.00   -0.1
TOO     30.21 206 iPd    35 56.30    0.3
        0.7s     37.00nm          5.3mb
URZ     30.75 155 eP     36 00.20   -0.4
NOZ     31.44 154 eP     36 05.90   -0.8
MNG     32.20 160 P      36 12.30   -1.0
KIW     32.22 161 eP     36 12.90   -0.7
TCW     32.34 162 P      36 14.60    0.1
CAW     32.50 161 eP     36 15.10   -0.8
MTW     32.69 160 P      36 16.30   -1.3
MOW     32.84 161 P      36 17.80   -1.1
BLW     32.86 160 P      36 18.00   -1.1
LTZ     33.23 165 eP     36 21.70   -0.7
WARB    36.15 240 eP     36 45.00   -2.6
        0.4s      7.00nm          4.9mb
FORT    36.71 232 eP     36 53.00    0.9
CTB     41.09 294 eP     37 17.00  -11.8X
MBL     41.11 250 eP     37 27.50   -1.4
PLP     42.24 300 ePc    37 38.20   -0.1
COOL    42.24 236 eP     37 38.00   -0.2
MEEK    43.20 243 eP     37 46.00    0.0
BAL     45.81 238 eP     38 06.80   -0.1
TSM     45.82 287 ePc    38 08.20    1.1
MRWA    46.05 240 eP     38 09.00    0.2
MUN     46.59 236 eP     38 13.50    0.4
AFR     47.74 104 iPc    38 21.90   -0.4
        0.8s    123.60nm          6.0mb
PPT     47.93 104 iPc    38 23.20   -0.6
        1.1s    333.10nm          6.3mb
     Z  29s    2325.00um           8.0MszX
TVO     48.25 104 iPc    38 25.70   -0.6
```

14d 21h

0.8s 202.00nm 6.2mb
BAG 48.57 303 eP 38 27.20 -1.8
PMO 49.55 100 iPc 38 35.90 -0.4
1.1s 172.90nm 6.0mb
VAH 49.80 101 iPc 38 37.70 -0.5
1.3s 159.60nm 5.9mb
TPT 49.82 100 iPc 38 37.80 -0.6
1.5s 267.40nm 6.0mb
RUV 50.04 101 iPc 38 39.40 -0.7
1.6s 308.50nm 6.1mb
WKYJ 51.04 332 P 38 54.00 6.5X
HON 51.13 51 P 39 00.00 11.8X
Z 21s 1.27um 4.9Msz
CHJJ 51.17 337 P 38 48.90 0.6
OPA 51.33 51 P 38 49.50 -0.2
TKSJ 51.57 331 P 38 51.60 0.2
MAT 51.91 336 iPc 38 53.50 -0.5
Z 20s 1.42um 5.0Msz
eS 46 09.00
TSRJ 51.97 334 P 39 01.60 7.2X
KUMJ 52.05 327 eP 38 58.70 3.6X
MTMJ 52.11 336 P 38 55.10 -0.5
YONJ 52.83 331 P 39 00.70 -0.2
OFUJ 52.93 341 P 39 01.50 0.0
SHNJ 53.14 329 eP 39 02.20 -0.9
LEM 53.20 270 iPc 39 05.00 0.8
KUSJ 55.77 345 eP 39 18.80 -3.4X
MRRJ 56.16 342 eP 39 23.60 -1.4
SSE 56.76 319 Pc 39 29.00 -0.6
0.6s 8.00nm 4.9mb
Z 20s 0.90um 4.9Msz
epP 39 39.00 33km
eS 47 12 00
esS 47 36.00
ASAJ 57.26 344 eP 39 33.10 0.2
YSS 59 94 345 (P) 39 43.60 -7.8X
Z 18s 1.70um 5.2Msz
N 18s 1 50um
E 18s 0.50um
e 40 00.00 62kmX
(S) 47 56.00
IPM 61.97 281 ePc 40 05.00 -0.9
PET 63.62 358 eP 40 20.00 4.0X
Z 22s 2.10um 5.3Msz
eS 48 48.00
SMY 64.24 9 P 40 30.00 9.9X
Z 21s 2.24um 5.3Msz
CSY 65.07 200 eP 40 24.80 -0.6
0.6s 9.80nm 5.1mb
LOE 65.24 295 eP 40 27.10 -0.2
BJI 65.66 323 eP 40 28.50 -1.0
1.2s 16.00nm 5.0mb
Z 24s 1.20um 5.0MszX
eS 49 06.00
eSS 53 16.00
NST 66.08 293 eP 40 33.40 0.8
KHT 67.20 291 eP 40 50.20 10.4X
KMI 67.36 303 Pc 40 41.00 0.0
2.0s 50.00nm 5.3mb
pP 40 51.50 34km
CHTO 68.21 295 iPc 40 46.10 -0.1
1.4s 67.79nm 5.6mb
CIT 74.83 332 eP 41 25.00 -0.2
YAK 76.70 345 iPd 41 35.30 -0.2
1.0s 75.00nm 5.7mb
Z 23s 1.40um 5.2MszX
N 24s 0.80um
E 23s 1.10um
eS 51 18.00
KDC 78.02 23 ePc 41 43.10 0.3
0.8s 42.70nm 5.5mb
BOD 78.50 336 eP 41 44.70 -0.8
1.1s 24.00nm 5.1mb
ZAK 79.09 326 iPc 41 49.00 0.2
1.6s 22.00nm 4.9mb
Z 17s 0.71um 5.1MszX
E 18s 1.01um
e 42 06.00 61kmX
eS 51 45.00
e 00 05.00
SPA 79.25 180 iPc 41 49.20 -0.5
1.0s 110.00nm 5.8mb
SVW 79.29 20 ePc 41 50.70 0.8
0.8s 74.60nm 5.8mb
IRK 79.56 328 ePc 41 50.10 -1.3
1.0s 27.00nm 5.2mb
Z 20s 0.61um 4.9Msz

N 19s 0.45um
E 20s 0.28um
e 41 57.60 24km
eS 51 49.00
ILT 79.82 8 iPc 41 52.00 -0.4
0.8s 26.00nm 5 3mb
i 41 59.00 22km
eS 51 48.00
e 52 08.00
ePPS 52 52.00
eSS 57 00.00
TTA 80.51 18 ePc 41 57.00 0.6
0.8s 16.70nm 5.1mb
CP2 80.56 21 P 41 55.10 -1.7
CRP 80.59 21 P 41 55.70 -1.2
SLKM 80.76 22 P 41 56.70 -1.0
pP 42 04.50 25km
PMS 81.50 22 ePc 42 01.60 0.1
PMR 81.88 22 eP 42 03.50 0.1
Z 21s 2.10um 5.5Msz
GUN 82.46 300 P 42 07.80 0.1
PKI 82.77 300 P 42 07.40 -1.9
KKN 82.94 300 P 42 09.80 -0.2
KLU 83.00 23 P 42 09.50 0.1
pP 42 18.10 27km
DMN 83.04 300 P 42 11.00 0.5
MAW 83.30 202 iPc 42 11.60 0.9
1.0s 66.67nm 5.8mb
IMA 83.50 17 ePc 42 12.00 0.1
GKN 83.55 300 P 42 12.60 -0.4
0.8s 44.00nm 5.7mb
BALM 84.12 24 P 42 15.20 0.0
FBA 84.50 19 ePc 42 16.30 -0.5
TIK 85.08 350 iPd 42 19.00 -0.5
1.7s 43.00nm 5.4mb
Z 20s 0.70um 5.0Msz
i 42 26.00 22km
eS 52 45.00
ARN 86.45 51 P 42 27.70 0.6
pP 42 34.90 23km
BRW 86.60 12 P 42 27.60 0.5
pP 42 34.30 21km
GBA 86.70 284 P 42 37.00 8.3X
BCH 86.98 54 P 42 30.80 0.9
pP 42 38.00 23km
ORV 87.09 49 P 42 30.50 0.3
LBFM 87.32 47 P 42 32.30 0.8
pP 42 39.50 23km
CMB 87.51 51 P 42 32.30 0.0
1.0s 28.60nm 5.5mb
pP 42 40.00 24km
ABL 87.58 54 P 42 33.70 0.8
pP 42 41.10 23km
ISA 88.38 53 P 42 36.90 0.4
1.8s 87.20nm 5.8mb
SHW 88.50 42 P 42 37.90 1.0
SSK 88.64 55 P 42 38.60 0.6
pP 42 45.90 23km
MCW 88.86 40 P 42 38.80 0.3
PEC 89.00 55 P 42 39.70 0.2
1.4s 69.44nm 5.8mb
PLM 89.11 56 P 42 40.80 0.6
KVN 89.50 50 P 42 43.00 1.0
pP 42 50.10 22km
GSC 89.61 54 P 42 43.20 0.8
pP 42 50.80 24km
ELT 89.84 325 eP 42 41.00 -1.9
1.2s 15.00nm 5.1mb
TNP 89.94 51 P 42 44.50 0.5
0.9s 21.23nm 5.4mb
pP 42 52.20 24km
TPNV 90.43 53 P 42 47.20 0.9
0.8s 28.22nm 5.6mb
pP 42 54.50 23km
INK 91.12 20 eP 42 49.50 1.0
1.2s 4.00nm 4.6mb
DPW 91.61 42 P 42 51.30 0.0
pP 42 58.80 23km
PRZ 92.09 313 eP 42 55.00 1.2
1.0s 20.00nm 5.5mb
NEW 92.41 41 P 42 55.00 0.1
0.9s 26.94nm 5.7mb
pP 43 02.90 25km
ARUT 92.79 52 P 42 58.50 1.4
DUG 93.74 50 P 43 01.80 0.4
1.2s 6.00nm 4.9mb
HVU 94.06 48 P 43 03.90 1.0

pP 43 11.50 24km
NRI 94.26 340 eP 43 08.00 5.0X
1.0s 9.00nm 5.2mb
LRM 95.03 44 eP 43 07.80 0.4
NVL 96.00 190 eP 43 11.00 -0.1
Z 17s 1.20um 5.4MszX
N 17s 0.80um
BW06 96.59 48 P 43 14.60 0.1
0.8s 2.54nm 4.8mb
YKA 96.77 28 eP 43 12.80 -1.7
0.8s 3.60nm 4.9mb
ALQ 97.88 56 P 43 20.20 -0.3
1.2s 10.20nm 5.2mb
MBC 97.90 14 eP 43 21.00 1.6
MAIO 105.85 305 ePKP 48 14.00 5.2X
MTD 123.27 242 ePKP 48 34.50 -8.0X
i 48 39.70
CNCB 124.02 119 PKP 48 44.20 -0.4
LPB 124.04 118 ePKP 48 41.00 -3.4X
ZOBO 124.13 118 PKPc 48 43.70 -1.1
1.1s 14.50nm
LR 28 50.00
BUL 124.24 237 ePKP 48 43.50 -0.9
LSZ 126.86 242 iPKP 48 49.00 -0.5
i 49 05.00
LMN 127.52 39 ePKP 48 52.00 2.2
SIV 130.27 122 PKP 49 08.60 12.7X
BRG 131.97 333 ePKP 48 57.40 -0.7
eSg 09 07.70
CLL 132.08 334 e(PKP) 49 09.00 10.8X
PRU 132.32 331 ePKP 48 59.00 0.3
Z 22s 0.90um 5.4Msz
N 22s 0.60um
E 22s 0.10um
e 49 17.00
KHC 133.36 331 ePKP 49 19.00 18.2X
Z 24s 1.20um 5.5MszX
N 24s 0.60um
E 24s 0.40um
GEC2 133.50 331 PKP 49 00.50 -0.7
0.9s 1.60nm
e 49 10.20
e 49 18.20
GRF 134.04 333 ePKP 49 02.50 0.4
Z 22s 0.60um 5.3Msz
PPD 134.25 136 (PKP) 49 04.00 0.7
LPL 139.18 333 ePKP 49 13.60 1.5
0.7s 1.55nm
LPG 139.19 333 ePKP 49 14.50 2.3
0.7s 2.45nm
BCAO 142.64 263 iPKPd 49 13.70 -5.2X
0.9s 54.00nm
id 49 23.00
EGRA 144.87 336 ePKP 49 20.10 -1.7
ECRI 145.34 339 ePKP 49 21.80 -1.0
ETOR 146.73 337 ePKP 49 26.00 0.9
GUD 147.66 339 ePKP 49 29.20 2.5
ELUO 150.40 336 iPKPd 49 36.40 5.5X
EHOR 150.55 338 ePKP 49 44.20 13.2X
EVAL 151.29 340 ePKP 49 38.90 6.7X
EPRU 151.30 337 ePKP 49 38.90 6.6X
S.D. = 0.9 on 134 of 162 obs.

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* MAY 14, 1993 22h 00m 10.39± 2.13s
15.969 N ± 8.4km 60.101 W ±19.4km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)
MD 3.5 (TRN). ML 3.3 (FDF).

DEG 0.98 291 ePc 00 27.25 -0.7
S 00 40.00
SFG 1.09 285 iPc 00 29.15 -0.2
MGG 1.17 268 iPc 00 30.70 0.2
S 00 45.00
MDN 1.41 243 eP 00 33.52 -0.4
CRM 1.44 213 iPc 00 34.23 -0.2
S 00 52.50
DOG 1.46 273 eP 00 35.10 0.4
PAG 1.52 272 eP 00 35.82 0.2
FDF 1.59 220 iPc 00 36.87 0.2
S 00 55.70
MVM 1 60 209 iPc 00 36.63 -0.1
BIM 1.72 213 iPd 00 58.56 20.1X
S 00 59.30
BPA 2.00 303 eP 00 42.50 0.0
SLW 2.10 203 eP 00 44.15 0.2
eS 01 08.53

MGH	2.16	290	eP	00 45.10	0.3
SLB	2 32	203	eP	00 47.24	0 2
			eS	01 14.09	
NEV	2 64	296	eP	00 51.79	0.2
			eS	01 21.57	
FCV	3.01	202	eP	00 56.71	-0.1
			eS	01 29.27	

S.D. = 0.3 on 15 of 16 obs.

• MAY 14, 1993 22h 01m 27.54± 2.77s
32.231 S ±16.9km 71.585 W ±20.5km
DEPTH = 28.1 ± 6.1 km
NEAR COAST OF CENTRAL CHILE (135)
MD 3.7 (SAN).

ROCH	0.88	147	iP	01 44.06	-0.1
			iS	01 57.30	
JACH	0.95	118	iP	01 44.43	-0.6
			iS	01 58.17	
PEL	1.19	140	iP	01 48.12	-0.2
			iS	02 04.46	
LCCH	1.24	179	iP	01 48.94	-0.1
			iS	02 05.32	
TACH	1.52	159	iP	01 53.13	0.0
			iS	02 13.29	
FCH	1.54	135	iP	01 53.13	-0.6
			iS	02 13.99	
PCH	1.65	147	iP	01 54.69	-0.4
			iS	02 16.02	
LNV	1.73	175	iP	01 55.02	-1.0
			iS	02 16.78	
CHCH	1.87	155	iP	01 57.83	-0.4
			iS	02 21.87	
RTBS	1 90	73	iPc	01 58.30	-0.3
			S	02 24.00	

S.D = 0.4 on 10 of 10 obs.

% MAY 14, 1993 22h 22m 39 82± 0.98s
38.150 N ± 9 0km 15.705 E ± 6.6km
DEPTH = 10.0km (geophysicist)
SICILY (398)

ATN	0 19	273	P	22 44.20	0.1
			eSg	22 47.80	
SOI	0 29	106	P	22 45.70	-0.1
			eSg	22 49.20	
CZI	1 12	17	P	23 00.80	0.0
ROI	1.57	25	P	23 08.40	0.6
TDS	1 59	18	P	23 10.00	2.0X
MGR	1 99	357	P	23 13.60	-0.2
SGO	2 42	353	P	23 19.70	-0.4

S.D = 0.4 on 6 of 7 obs.

? MAY 14, 1993 22h 26m 08.46± 1.10s
17.861 S ±17.0km 166.049 E ±10.7km
DEPTH = 33.0km (normal)
4.2mb (1 obs.)
VANUATU ISLANDS (186)

BKM	2 10	85	iPd	26 42.00	0.0
			iS	27 09.50	
DZM	4 21	175	iPd	27 12.00	0.0
			iS	28 03.00	
WB2	30.04	261	eP	32 17.40	0.5
	0.5s		2.00nm	4.2mb	
ASPA	30.57	254	iPc	32 21.00	-0.6
	0.3s		9.30nm	5 1mb X	

S.D. = 0.8 on 4 of 4 obs.

MAY 14, 1993 22h 28m 54.20± 0.35s
44.296 N ± 4.9km 5.248 E ± 4.5km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.5 (LDG).

CDR	0.73	149	e(Pg)	29 09.20	0.7
			e(Sg)	29 17.10	
			e	29 20.40	
LRG	1.16	136	Pg	29 15.60	-0.3
			Sg	29 32.10	
FRF	1.25	126	Pn	29 16.60	-0.8
			Pg	29 18.00	
			Sg	29 34.60	
LMR	1.33	136	Pn	29 18.50	-0.2
			Pg	29 19.70	
			Sg	29 36.90	
LPG	1.61	41	Pn	29 23.50	0.5
			Pg	29 24.90	
			Sg	29 46.20	
LPL	1.61	40	Pn	29 23.00	0.0
			Pg	29 24.80	
SBF	1.63	105	Pn	29 23.50	0 3
			Pg	29 24.80	
			Sg	29 46.80	
LBL	1.71	304	Pn	29 24.80	0.6
PLDF	2.03	326	Pn	29 29.00	0.1
			Sg	30 04.50	
CAF	2.36	287	Pn	29 34.00	0.4
			Sg	30 10.30	
SMF	2.55	338	Pn	29 36.70	0.4
			Sg	30 15.00	
MAF	2.70	316	Pn	29 38.20	-0 3
			Pg	29 46.00	
			Sg	30 20.50	
BGF	2.82	324	Pn	29 39.20	-1.0
			Pg	29 48.80	
			Sg	30 24.00	
AVF	2.83	333	Pn	29 40.00	-0.2
			Pg	29 48.90	
			Sg	30 25.20	
RJF	2.84	292	Pn	29 40.50	0.1
			Sn	30 13.10	
TCF	2.93	314	Pn	29 41.20	-0.4
			Sg	30 27.80	

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

? MAY 14, 1993 23h 31m 22.84± 1.22s
49.168 N ±21.4km 6.866 E ±27.9km
DEPTH = 5.0km (geophysicist)
GERMANY (543)
ML 1.8 (UCC).

WLF	0.68	317	iPd	31 35.29	-1.2
			iS	31 45.63	
FEL	1.50	149	ePn	31 50.31	-0.3
ENN	1.71	340	iPgd	31 53.90	0.5
			eSg	32 17.00	
DOU	1.74	303	iP	31 54.90	1.0

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

% MAY 14, 1993 23h 32m 23.66± 0.45s
38.253 S ± 6.0km 175.908 E ± 6.2km
DEPTH = 170.0km (geophysicist)
NORTH ISLAND, NEW ZEALAND (159)

UTU	0.24	71	P	32 46.80	0.3
PATZ	0.30	115	P	32 46.90	0.1
WLZ	0.45	327	Pd	32 47.70	0.5
			eS	33 04.40	
TAZ	0.47	88	eP	32 47.30	0.1
WHH	0.78	144	P	32 49 30	0.1
MOZ	0.90	253	P	32 51.30	1.4
			eS	33 11.80	
URZ	0.95	91	P	32 48.90	-1.3
			S	33 08.20	
NGZ	0.95	195	P	32 52.40	1.9
CNZ	0.99	196	P	32 52.40	1.7
PAHZ	1.08	124	P	32 51.50	0.1
MOH	1.31	133	P	32 54.00	0.7
TTH	1.47	151	P	32 56.10	1.3
WAHZ	1.49	167	Pc	32 55.90	0.9
KUZ	1.51	354	P	32 54.70	-0.5
			eS	33 16.80	
NOZ	1.71	103	P	32 57.00	-0.2
BSZ	1.72	206	P	32 59.10	1.8
MAHZ	1.80	122	P	32 58.50	0.2
PUZ	1.86	85	P	32 57.50	-1.4
			S	33 21.30	
TEHZ	1.87	158	P	32 59.60	0.6
HBZ	2.00	72	P	32 59.50	-0.9
MNG	2.39	188	Pd	33 05.10	0.2
			eS	33 34.70	
KIW	2.72	196	P	33 08.80	-0.1
MTW	2.92	186	P	33 10.90	-0.4
CAW	2.92	193	P	33 11.20	-0.2
DIW	2.97	210	P	33 12.00	0.0
MRW	3.12	197	P	33 13.30	-0.5
			S	33 51.00	
BLW	3.13	186	P	33 13.30	-0.6
WEL	3.15	196	P	33 13.90	-0.3
			eS	33 50.60	
MOW	3.20	189	P	33 14.10	-0.8
TCW	3.21	203	P	33 14.50	-0 5
ORZ	3.67	224	P	33 20.00	-0 7
			eS	34 03.70	
CCW	3.73	200	eP	33 21.40	-0.1
THZ	4.20	212	eP	33 26.90	-0.8
			eS	34 15.70	
KHZ	4.54	203	P	33 30.80	-1 2
			S	34 22.40	
DSZ	4.70	221	eP	33 32.50	-1.8
LTZ	5.31	210	eP	33 40.10	-2.1X
			eS	34 38.00	
MQZ	5.98	203	P	33 48.00	-3.0X
			S	34 52.30	
ODZ	7.85	208	eP	34 13.30	-2.5X

S.D. = 0.9 on 35 of 38 obs.

& MAY 14, 1993 23h 45m 25.67s
36.940 N 121 435 W
DEPTH = 8.1km
CENTRAL CALIFORNIA (39)
<GM-P>. MD 3.1 (GM). ML 3.0
(BRK).

CDC	0.09	335	P	45 28.18	0.1
HBTM	0.13	226	P	45 29.32	0.7
HJSM	0.16	138	P	45 29.46	0.2
SAO	0.17	183	eP	45 29.25	-0.2
FRP	0.19	193	P	45 30.12	0.3
HCOM	0.23	257	P	45 30.90	0.5
BSRM	0.28	194	P	45 31.62	0.1
JELM	0.31	268	P	45 32.58	0.5
EKH	0.35	143	P	45 32.84	0.1
JUMM	0.43	301	P	45 34.04	-0 4
MHC	0.43	338	iPc	45 34.59	0.1
			eS	45 41.73	
JUCM	0.50	277	P	45 35.14	-0.5
LLA	0.51	129	iPc	45 35.60	-0.4
LT15	0.52	295	P	45 36.11	-0.1
JBLM	0.62	288	P	45 37.34	-0.7
JSMM	0.65	295	P	45 38.10	-0 5
LT3	0.70	298	P	45 38.97	-0.7
JJRM	0.73	304	P	45 40.14	-0 1
HVC	0.75	139	P	45 40.20	-0 4
CVLM	0.76	335	P	45 41.11	0.5
CCYM	0.80	320	P	45 40.84	-0 6
CPLM	0.81	329	P	45 41.31	-0.3
BGH	0.83	299	P	45 41.86	0 0
PJLM	0.88	165	P	45 42.66	-0.1
MOP	0.89	144	P	45 43.38	0.4
LKC	0.94	328	P	45 43.97	0.2
PRCM	0.95	136	P	45 45.08	1.2
JCPM	0.96	313	P	45 43.77	-0.3
PTV	1.01	145	P	45 45.10	0.1
SAC	1.01	310	P	45 44.86	-0.1
PSAM	1.01	154	P	45 45.38	0.4
CMCM	1.03	325	P	45 45.63	0.4
PAPM	1.03	177	P	45 45.18	-0.1
PDRM	1.05	125	P	45 46.00	0.4
MGA	1.08	310	P	45 45.59	-0.6
PSMM	1.10	142	P	45 47.66	1.1
PARM	1.12	128	P	45 47.77	0.9
CVPM	1.13	327	P	45 47.50	0.4
PCRM	1.17	136	P	45 48.24	0.6
JPRM	1.19	316	P	45 48.00	0.0
ZSP	1.20	327	ePd	45 47.60	-0.5
CPIM	1.22	330	P	45 48.40	-0.1
PANM	1.23	160	P	45 49.32	0.5
PSTM	1.26	143	P	45 48.60	-0.6
CPMM	1.27	323	P	45 48.40	-1.0
PHBM	1.29	122	P	45 50.80	1.1
CTM	1.34	138	P	45 53.18	2.5
CMB	1.38	37	ePc	45 50.25	-0.9
PKEM	1.38	129	eP	45 51.91	0 7
PHAM	1.38	142	eP	45 50.67	-0.6
FRI	1.38	87	iPc	45 50.44	-0.8
MRFM	1.49	29	P	45 53.18	0.4
ADWM	1.57	17	P	45 54.34	0.5
LOC	1.58	320	P	45 55.38	1.4
PMGM	1.68	154	P	45 58.29	2.8
NTYM	1.74	326	eP	45 54.92	-1.4
NBPM	1.83	341	P	45 56.99	-0.6
AFDM	2.04	10	P	46 01.32	0.6
BCH	2.07	148	eP	45 59.99	-1.2
FTR	2.09	320	P	45 59.82	-1.6
MEMM	2.12	69	eP	46 02.68	0.9
			eS	46 30.87	
GHCM	2.17	321	P	46 07.17	4.6
ORV	2.61	359	eP	46 08.30	-0.6
BONR	2.69	67	ePn	46 10.71	0.4

14d 23h

```
ISA      2.71  117 ePn    46 09.86   -0.5
KVN      3.37   50 ePn    46 20.47    0.6
                   ePg    46 27.73
TNP      3.54   70 (Pn)   46 21.50   -0.8
                   ePg    46 29.25
GSC      4.09  112 ePn    46 29.05   -0.9
                   ePg    46 39.47
TPNV     4.15   88 (Pn)   46 30.04   -0.9
        69 obs. associated
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   MAY  14, 1993  23h 59m 43.53± 0.54s
   36.512 N ± 4.8km   30.026 E ± 5.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      MD 3.9 (ATH). ML 3.6 (ISK).

ELL      0 25  338 iPg    59 48.10   -0.9
KSL      0 53  222 ePg    59 54.00   -0.3
BCK      1 05   25 iPn    00 04.40    1.0
YER      1.53  294 iPn    00 09.00   -2.0
KHL      1.85  348 iPn    00 16.00    0.4
CIN      1.89  306 ePn    00 16.00   -0.2
                   iSg    00 42.00
ALT      2.54    1 ePn    00 26.40    0.9
IZM      2.89  311 ePn    00 29.70   -0.8
NPS      3.79  252 ePn    00 43.30    0.0
KCT      3.95  341 ePn    00 45.60    0.1
EYL      4.05    1 ePn    00 47.00    0.0
EZN      4.41  320 ePn    00 51.00   -1.0
VAM      4.85  259 ePn    01 01.00    2.7
ATZ      5.68  129 eP     01 10.20    0.2
                   eS     02 14.90
VLI      5.71  274 ePn    01 11.50    1.1
DSI      6.64  136 eP     01 23.30   -0.2
MBH      7 86  147 eP     01 39.50   -1.2
     S D. = 1.1   on  17 of  17 obs.
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&  MAY  15, 1993  00h 31m 49.43s
   36.943 N          121.436 W
   DEPTH =   7.6km
 CENTRAL CALIFORNIA                (  39)
      <GM-P>. MD 3.0 (GM).

CDC      0.09  335 P      31 51.81    0.1
PCL      0.16   47 P      31 53.04    0.1
HJSM     0.17  139 P      31 53.24    0.2
SAO      0.18  182 eP     31 53.01   -0.2
BSLM     0 18  157 P      31 53.80    0.5
HCOM     0.23  256 P      31 54.60    0.5
BCGM     0.24  162 P      31 55.09    0.6
JBZM     0.29  285 P      31 56.29    0.9
EKH      0.35  143 P      31 56.61    0.1
JNAM     0.40  306 P      31 57.41   -0.2
ARN      0.41  349 iPc    31 57.99    0.2
                   eS     32 04.40
JRGM     0 43  283 P      31 58.16    0.0
LXR      0.51  301 P      31 59.12   -0.6
SHG      0.55  164 P      32 00.00   -0.5
JBLM     0.61  288 P      32 01.33   -0.4
BCWM     0 64  189 P      32 02.07   -0.3
JJRM     0.73  303 P      32 03.99   -0.1
SFT      0.75  308 P      32 04.13   -0.2
HVC      0.75  139 P      32 03.98   -0.5
BAPM     0.78  192 P      32 04.51   -0.5
CCYM     0.80  319 P      32 04.59   -0.6
CPLM     0.81  329 P      32 05.27   -0.1
CDAL     0.82  344 P      32 07.01    1.5
BGH      0.82  299 P      32 05.48   -0.1
JHPM     0.85  306 P      32 06.11    0.0
MOP      0.89  144 P      32 07.47    0.7
LKC      0.94  328 P      32 08.18    0.6
PRCM     0.95  136 P      32 08.22    0.5
JCPM     0.96  313 P      32 07.07   -0.8
SAC      1.01  309 P      32 08.56   -0.2
PTV      1.01  145 P      32 09.05    0.2
PSAM     1.02  154 P      32 09.03    0.2
CRPM     1.04  339 P      32 10.57    1.3
MGA      1.08  310 P      32 09.51   -0.4
PARM     1.12  128 P      32 11.40    0.7
CVPM     1.13  327 P      32 11.26    0.4
CPIM     1.21  330 P      32 12.14   -0.1
PANM     1.24  160 P      32 12.43   -0.2
PSTM     1.26  143 P      32 12.78   -0.3
CPMM     1.27  323 P      32 12.63   -0.5
PHBM     1.29  122 P      32 14.59    1.0
MNHM     1.30   22 P      32 13.26   -0.4
WKR      1.35  146 P      32 14.17   -0.4

CMB      1.37   37 eP     32 13.56   -1.4
                   eS     32 32.79
PKEM     1.38  129 eP     32 15.76    0.7
PHAM     1.39  143 eP     32 14.20   -0.9
MRFM     1.49   29 P      32 17.01    0 4
NOLM     1.54  316 P      32 16.20   -1 0
ADWM     1.56   17 P      32 17.50   -0.1
NTYM     1.74  326 eP     32 18.24   -1.9
BCH      2.07  148 eP     32 22.31   -2.7
MEMM     2.12   69 ePn    32 25.30   -0 3
                   eS     32 54 72
ORV      2.61  359 ePn    32 31.95   -0.7
BONR     2.69   67 ePn    32 34.97    0.8
ISA      2.71  117 ePn    32 31.52   -2.7
KVN      3.37   50 (Pn)   32 45.27    1.6
                   ePg    32 51.69
TNP      3.54   70 (Pn)   32 43.98   -2.1
                   ePg    32 55.57
        57 obs. associated
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?  MAY  15, 1993  01h 04m 04.50± 0.98s
   26.364 S ± 7.3km   27.283 E ±11.9km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA          (584)
      ML 1.9 (PRE).

PRY      0.59  163 eP     04 15.50   -0.8
                   S      04 22.40
KSR      0.61  325 eP     04 16.50   -0.2
                   S      04 27.50
SLR      1.10   55 eP     04 25.70    0.1
SEK      1.98  171 eP     04 40.00    0.9
                   S      05 06.00
      S.D. = 1.2   on   4 of   4 obs.
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?  MAY  15, 1993  01h 11m 38.27± 0.95s
   26.318 S ± 7.4km   27.600 E ±10.9km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA          (584)
      ML 2.1 (PRE).

PRY      0.62  191 eP     11 50.00   -0.7
                   S      11 55.90
KSR      0.78  305 eP     11 54 00    0.0
                   S      12 04.00
SLR      0.84   47 e(P)   11 55.00   -0.2
                   S      12 06.50
SEK      2.00  179 iPc    12 14.00    0.8
                   S      12 37.50
      S.D. = 1.0   on   4 of   4 obs.
-------------------------------------
   MAY  15, 1993  01h 34m 00 90± 0.41s
    3.781 S ± 5.4km   135.239 E ±10.1km
   DEPTH =  33.0km  (normol)
   5.2mb (  9 obs.)  4.6Msz (  2 obs.)
 IRIAN JAYA REGION, INDONESIA      (196)

MTN      9.88  204 eP     36 23.00   -0.8
        0.4s    204.00nm          6.7mb X
                   eS     38 10.00
WB2     16.09  183 eP     37 42.60   -3 8X
                   eS     40 34.70
WRA     16.09  183 eP     37 44.00   -2.4
OIS     17.21  166 eP     38 01.70    1.2
                   eS     40 53.80
CTA     19.44  147 iPc    38 28.00    0.2
        1.9s    118.42nm          4.8mb
                   eS     42 09 00
                   e      43 20.00
GUMO    19.72   29 eP     38 30.10   -0.8
      Z  25s       0.79um
ASPA    19.81  184 iPd    38 32.20    0.4
        0.7s    110.40nm          5.3mb
KKM     21.36  297 ePd    38 48.00    0.2
                   e      41 38.50
MBL     22.86  220 eP     39 04.00    1.3
BAG     24.75  325 eP     39 20.00   -1.2
BJI     46.99  340 eP     42 30.50   -0.3
        1.6s     67.00nm          5.4mb
      Z  20s       0.60um          4.6Msz
                   eS     49 22.00
LZH     49 34  326 eP     42 50.00    0.6
        1.5s     27.00nm          5.1mb
      Z  20s       0.65um          4.6Msz
      E  12s       0.38um
                   sP     43 11.50
GUN     57.00  307 P      43 46.20   -0 3

        0.8s     17.00nm          5.1mb
PKI     57.23  306 P      43 48.60    0.5
KKN     57.43  306 P      43 49.20   -0.2
DMN     57.49  306 P      43 50.60    0.7
GKN     58.03  306 P      43 53.60    0.1
        1.0s     28.00nm          5.3mb
IRK     61.69  339 ePc    44 18.30    0.3
        1.4s     21.00nm          5.1mb
                   e      44 35.00
YAK     65.75  357 eP     44 43.00   -1.4
        1.8s     60.00nm          5.4mb
IMA     85.86   23 eP     46 39.40    0.9
        1.4s     11.36nm          4.9mb
FBA     87.89   25 e(P)   46 49.00    0.8
MBC     97.30   13 eP     47 31.50    0.1
CNCB   149.26  132 PKP    53 50.20    5.1X
LPB    149.35  132 ePKP   53 53.00    8.0X
ZOBO   149.49  131 PKP    53 48.90    3.5X
      S.D. = 1.0  on  21 of  25 obs.
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   MAY  15, 1993  01h 41m 11.22± 0.22s
   22.257 S ± 6.5km  169.507 E ± 6.3km
   DEPTH =  25.3km  (  5 depth phases)
   5.5mb ( 17 obs.) 5.2Msz ( 19 obs.)
 LOYALTY ISLANDS REGION            (189)
      Mw 5.6 (HRV).
      CENTROID, MOMENT TENSOR      (HRV)
      Data Used: GDSN
      L.P.B.: 12S, 14C
      Centroid Locotion:
      Origin Time        01:41:19.5 1.3
      Lat 22.19S  FIX;Lon 169.48E  FIX
      Dep  15.0 FIX Half-durotion  1.3
      Moment Tensor;   Scole 10**17 Nm
        Mrr=-2.14 0.46  Mtt= 0 19 0.18
        Mff= 1.94 0.34  Mrt=-0.47 0.26
        Mrf= 0.67 0.36  Mtf= 1.29 0.44
       Principol Axes:
        T  Vol=  2.66  Plg= 5   Azm=297
        N       -0.22       21      205
        P       -2.44       69       39
      Best Double Couple.Mo=2.5*10**17
       NP1:Strike= 48 Dip=44 Slip= -60
       NP2:        189       53      -116

DZM      2.85  273 iPc    41 55.00   -1.1
PVC      4.63  346 iP     42 21.80    0.4
                   iS     43 14.00
BKM      4.72  345 iPd    42 22.50   -0.1
                   iS     43 14.50
BRS     16.02  248 iP     44 56.50   -0.1
                   e      45 02.00
                   eS     49 15.00
ARMA    17.95  239 iPd    45 22.00    1.1
        1.0s     64.00nm          4.7mb
SNZO    19.50  168 P      45 38.00   -1.4
                   S      49 21.00
CNB     21.88  229 iPc    46 05.30    1.2
        1.3s    250.00nm          5.5mb
BWA     22.12  232 eP     46 04.80   -1.7
                   ipP    46 11.20   23km
CAN     22.14  229 eP     46 03.10   -3.6X
                   i      46 07.50   16km
TOO     25.71  228 eP     46 42.20    1.0
        1.2s    131.00nm          5.4mb
STK     26.58  243 P      46 50.29    1.1
HON     53.67   38 P      50 40.00    6.8X
      Z  21s       0.38um          4.4Msz
CSY     57.49  204 P      51 07.69    7.4X
KKM     59.25  292 ePc    51 11.50   -1.9
LEM     61.45  274 ePd    51 38.50    9.9X
WKYJ    64.77  329 eP     51 50.00    0.1
TKSJ    65.32  328 eP     51 53.40    0.0
MAT     65.53  333 eP     51 54.00   -0.7
        1.8s     90.91nm          5.6mb
      Z  20s       2.84um          5.5Msz
                   eS     59 56.00
YONJ    66.58  328 eP     52 01.80    0.4
SPA     67.88  180 iPd    52 10.50    1.0
        1.2s     22.54nm          5.2mb
MAW     75.75  202 P      53 01.20    5.1X
NST     77.69  293 eP     53 08.50    0.8
KHT     78.61  291 eP     53 14.20    1.4
BJI     79.43  321 eP     53 17.50    0.7
        1.4s     72.00nm          5.5mb
      Z  20s       1.20um          5.2Msz
                   eS     03 26.00
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CHTO	80.14	295	ePc	53	22.20	1.1	PVL	143.71	314	iPKP	00	44.00	-1.7	KBA	148.65	328	iPKPc	00	52.90	-1.1
	1.2s	54.17nm			5.5mb		SPC	143.77	325	ePKP	00	45.40	-0.5				i	00	56.80	
LZH	84.93	312	Pd	53	46.50	0.8	KDZ	144.26	311	iPKP	00	45.00	-1.7				i	01	06.30	
	1.5s	100.00nm			5.8mb		GZR	144.39	318	ePKPd	00	45.50	-1.4	VBY	148.71	324	ePKP	00	53.60	-0.3
Z	23s	1.04um			5.2MszX		PLD	144.58	312	iPKP	00	46.00	-1.2				ePKPab	00	58.00	
		pP	53	56.50	31km		KSP	144.64	330	iPKP	00	46.00	-1.1				epP'df	01	07.50	
		sP	54	03.00				1.4s	74.00nm					SRN	148.73	311	ePKP	00	57.00	2.9X
KDC	85.78	19	eP	53	49.00	-0.2	RZN	144.73	312	iPKPd	00	46.00	-1.8	LJU	148.75	325	ePKP	00	53.50	-0.5
	2.0s	194.80nm			6.0mb		PGB	144.77	313	iPKPd	00	47.00	-0.6				ePKPab	00	58.00	
NVL	85.91	187	eP	53	45.00	-4.8X	BZS	144.98	319	ePKP	00	45.00	-2.8	ENN	148.78	340	ePKP	00	57.50	3.7X
SAO	87 62	49	P	54	10.00	11.4X	SSR	145.29	318	ePKPd	00	49.00	0.6		1.0s	15.00nm				
Z	17s	0.31um			4.8MszX		BUD	145.44	324	iPKP	00	48.60	0.1				e	01	07.50	
SVW	87.71	16	eP	53	59.80	1.2	MMB	145.45	312	iPKPd	00	48.00	-0.8	FUR	148.84	331	ePKP	00	57.30	3.2X
ORV	88.97	46	eP	54	05.27	0.2	BRG	145.66	332	iPKP	00	49.00	0.2				i	01	02.70	
		epP	54	14.30	28km			1.6s	140.00nm					RBL	148.98	327	PKP	00	57.80	3.4X
CMB	88.98	48	eP	54	05.44	0.2				i	00	58.70		CEY	149.00	325	ePKP	00	54.00	-0.4
	1.3s	32.09nm			5.5mb		CLL	145.73	334	iPKPd	00	49.10	0.2				ePKPab	00	58.00	
Z	21s	1.07um			5.2Msz			1.9s	165.00nm					VOY	149.09	326	ePKP	00	54.30	-0.3
SSK	89.07	52	eP	54	07.42	1.5				i	00	57.90					ePKPab	00	58.80	
TTA	89.17	15	eP	54	05.00	-0.6	KKB	145.78	313	iPKPc	00	46.00	-3.3X				e	01	05.30	
ISA	89.18	51	eP	54	06.48	0.2	PRU	146.04	331	PKPd	00	50.10	0.6	FVI	149.27	328	PKP	00	58.40	3.7X
	1.4s	58.08nm			5.7mb			1.5s	123.80nm					RIY	149.28	324	iPKP	00	59.30	4.6X
Z	22s	0.95um			5.2Msz					e	00	55.00		WTTA	149.34	330	iPKPc	00	54.70	-0.4
PLM	89.29	53	eP	54	07.50	0.6				e	04	20.00					i	00	59.60	
PEC	89 31	53	eP	54	06.65	-0.2	VAY	146.35	312	iPKP	00	50.60	0.4				i	01	08.50	
	1 5s	59.32nm			5.7mb		VKA	146.37	327	ePKP	00	50.00	-0.1	TRI	149.37	326	ePKP	00	59.30	4.4X
LBFM	89 62	45	eP	54	09.05	0.7				i	00	52.40					e	13	32.00	
YAK	89.79	342	eP	54	08.00	-0.4	EKA	146.52	352	PKP	00	53.00	3.0X	HVAR	149.42	319	iPKPd	00	58.40	3.3X
	1.8s	70.00nm			5.6mb			1.9s	163.00nm					SNF	149.51	341	PKP	01	01.40	6.5X
PMR	89 90	18	P	54	20.00	11.1X	SOP	146.62	326	ePKP	00	50.00	-0.5	MOTA	149.53	330	iPKPc	00	54.70	-0.6
Z	21s	0.79um			5.1Msz		8CAO	146.78	242	iPKPc	00	50.10	-1.7				i	00	59.50	
VIP	90 44	47	P	54	19.09	6.8X		1.0s	45.00nm					HOFF	149.60	336	PKP	01	00.21	5.1X
GLA	90 68	54	eP	54	14.00	0.8				ic	00	52.10		LANF	149.63	336	PKP	00	59.87	4.7X
KMOR	90 82	40	P	54	13.88	0.2				id	01	15.10		WLF	149.65	338	iPKPc	01	00.90	5.8X
SSOR	91.04	41	P	54	14.38	-0.3	WIT	146.78	341	ePKP	00	57.00	6.5X		1.9s	69.50nm				
TNP	91.20	49	eP	54	15.89	0.2	MOX	146.81	334	ePKP	00	51.50	0.8				ic	01	10.76	
	1.4s	45.00nm			5.6mb			1.8s	58.00nm					SRBF	149.66	336	PKP	01	00.89	5.7X
		epP	54	25.00	28km					i	00	52.90		DOU	149.79	341	PKP	01	00.40	5.0X
TPNV	91.37	50	eP	54	16 61	0.1				i	01	02.10		VVI	149.87	327	PKP	01	00.50	4.8X
	1.5s	58.29nm			5.7mb					e	01	15.20		CTI	150.21	328	PKP	01	01.30	5.0X
BMW	91 42	40	P	54	16.66	0.3	SKO	146.84	314	iPKP	00	53.30	2.3	WLS	150.27	336	PKP	01	00.64	4.4X
SIT	91.51	27	P	54	30.00	13.7X		1.5s	185.00nm					CDF	150.30	336	PKP	01	01.32	5.0X
Z	21s	1 28um			5.3Msz		HOF	146.95	333	iPKPc	00	53.60	2.6	CDF	150.30	336	ePKP	00	55.20	-1.1
CPW	91.73	39	P	54	18.44	0.7	KHC	147.09	330	PKP	00	50.50	-0.7		1.3s	9.75nm				
TDL	91.95	40	P	54	19.36	0.5		1.2s	37.00nm					FEL	150.44	334	PKP	01	00.64	4.0X
ASR	92.23	40	P	54	20.07	-0.1	Z	20s	1.00um			5.6Msz		ECH	150.50	336	PKP	01	01.06	4.5X
IMA	92.37	14	eP	54	19.40	-1.0	N	22s	0.50um					MOF	150.81	335	PKP	01	01.99	4.9X
	1.4s	24.80nm			5.4mb		E	22s	0.30um					VITF	150.94	337	PKP	01	02.19	5.0X
LON	92.40	40	P	54	21.05	0.2				i	01	03.40		BSF	150.96	336	ePKP	00	56.80	-0.6
FBA	92.88	17	eP	54	21.00	-1.6				i	03	07.00			1.4s	17.00nm				
JBO	92.96	42	P	54	23.34	-0.1	GEC2	147.24	330	e(PKP)	00	58.00	6.4X	BBS	150.98	334	PKP	01	02.85	5.5X
EBG	93.22	40	P	54	24.19	-0.4		0.4s	0.60nm					HAU	150.98	336	ePKP	00	56.80	-0.5
DUG	95.20	49	P	54	40.00	6.0X	GEC2	147.24	330	PKP	00	51.10	-0.5	Z	22s	0.75um			5.4Msz	
Z	22s	0.68um			5.1Msz			1.4s	5.81nm					ROI	151.23	313	PKP	01	03.10	5.2X
GBA	96.92	282	P	54	51.00	8.9X				e	00	54.70		RSM	151.25	324	PKP	01	05.10	7.4X
INK	99.31	18	eP	54	52.00	0.2				e	01	03.70		ARV	151.26	323	PKP	00	57.90	0.1
	1.4s	7 00nm			5.0mb					e	07	46.20		CSI	151.32	314	PKP	01	02.40	4.3X
GOL	100.30	51	Pdiff	55	10.00	12.6X				e	07	47.80		LOMF	151.34	335	PKP	01	03.53	5.6X
Z	21s	0.86um			5.2Msz		GEC2	147.24	330	e(PKP)	01	03.80	12.2X	SGO	151.56	316	PKP	01	04.30	6.0X
RSSD	102.71	47	Pdiff	55	20.00	12.0X		0.9s	14.50nm					SFI	151.58	325	PKP	01	05.30	7.1X
Z	21s	0.27um			4.7Msz		IVA	147.43	316	iPKPd	00	54.71	2.7	PGD	151.68	325	PKP	01	05.80	7.1X
YKA	103 22	28	ePdiff	55	08.10	-1.3	WTS	147.44	340	ePKP	00	52.00	0.4	GRI	151.69	312	PKP	01	06.01	7.4X
	1 0s	0.80nm			4.4mb	X		1.2s	20.50nm						1.0s	48.00nm				
MIAR	107.74	59	PKP	59	50.00	11.9X	PVY	147.52	316	iPKPd	00	54.84	2.6	ASS	151.69	323	PKP	01	11.65	13.1X
Z	21s	0.56um			5.1Msz		PLE	147.52	317	iPKPd	00	55.19	3.0X		1.1s	26.60nm				
FVM	111.02	56	PKP	00	00.00	15.7X	KMR	147.59	329	iPKP-	00	55.30	3.3X	ASS	151.69	323	PKP	01	04.60	6.0X
Z	20s	0.61um			5.2Msz					ipPKP	01	06.20		VAI	151.70	331	PKP	01	04.20	5.9X
GOGA	115 68	63	PKP	00	00.00	6.7X	PHP	147.64	314	iPKPd	00	54.90	2.6	AOU	151.71	321	PKP	01	05.10	6.5X
Z	20s	0.39um			5 0Msz		OHR	147.65	313	iPKP	00	52.80	0.4	CRE	151.72	324	PKP	01	04.40	5.7X
SVE	118 64	324	ePKP	00	04.00	5.8X		1.3s	141.00nm					AZI	151.92	320	PKP	01	05.20	6.4X
CEH	119 62	60	PKP	00	10.00	9.3X	GRF	147.70	333	ePKPd	00	51.60	-0.6	FIR	151.99	325	ePKP	01	06.00	7.1X
Z	21s	0.40um			5.0Msz					ed	00	55.50		MNS	152.12	321	PKP	01	05.10	5.9X
ARU	119.79	323	ePKP	00	01.00	0.6				e	01	05.40		SOI	152.29	311	PKP	00	59.40	-0.1
HRV	125.80	53	PKP	00	20.00	7.6X	NKY	148.03	317	iPKPd	00	56.16	3.1X	LBF	152.70	338	ePKP	00	59.00	-0.9
Z	21s	0.51um			5.2Msz		TTG	148.06	316	iPKPd	00	56.06	3.2X	SSF	152.79	339	ePKP	00	59.20	-0.7
CBM	127.89	47	PKP	00	30.00	13.7X	PTJ	148.08	324	ePKP	00	38.20	-14.8X	LPL	152.86	333	ePKP	01	00.00	-0.4
Z	20s	0.82um			5.4Msz		ZAG	148.11	324	ePKP	00	56.20	3.3X	LPG	152.87	333	ePKP	01	00.10	-0.4
GRS	129 11	303	ePKP	00	18.00	-1.1	LACI	148.15	314	ePKP	00	55.50	2.4	TCF	153.90	340	ePKP	01	01.10	-0.4
	1 6s	20.00nm					BNS	148.20	339	iPKP	00	56.70	3.8X		S.D. = 1.1		an 104 of 182 abs.			
GRO	129.33	308	ePKP	00	20.00	0.9	Z	21s	2.70um			6.0Msz		---						
KIV	131.41	310	ePKP	00	23.50	0.3	BRY	148.27	317	iPKPd	00	56.63	3.2X	MAY 15, 1993 01h 53m 14.38± 0.58s						
	1.5s	13.00nm					ULC	148.29	315	iPKPd	00	57.09	3.7X	41.252 N ± 6.4km 20.156 E ± 5.0km						
OBN	132.12	325	ePKP	00	23.00	-1.0	TNS	148.37	337	ePKPc	00	57.60	4.3X	DEPTH = 10.0km (geophysicist)						
		e	00	33.50			BDV	148.41	316	iPKPd	00	57.36	3.8X	ALBANIA (391)						
NUR	134.59	336	iPKP	00	28.90	0.3	HCY	148.54	317	iPKPd	00	57.09	3.4X	ML 3.1 (TTG), 2.9 (TIR), 2.8 (SKO).						
	0 4s	2.70nm					TPE	148.55	312	ePKP	00	53.00	-0.8							
MLR	142.36	317	ePKP	00	40.00	-3.6X	TPE	148.55	312	ePKP	00	56.00	2.2							

15d 01h

TIR	0.24	294	iPgc	53	18.80	-0.7				eS	00	49.80			E	19s	5.79um						
			iSg	53	24.30		BAG	10.88	328	eP+	58	17.00	1.3				pP	02	49.00	54kmX			
PHP	0.48	26	iPgd	53	22.90	-1.3	TATO	18.32	345	eP	59	47.99	-4.3X				sP	02	58.00				
			iSg	53	31.40		GUMO	19.00	69	eP	00	02.90	2.2				PP	03	57.00				
OHR	0.51	106	iPg	53	22.40	-2.2	HKC	19.21	323	eP	00	05.00	1.9				eS	08	06.00				
			iSg	53	29.40					eS	03	40.00					sS	08	33.00				
LACI	0.51	319	iPgc	53	23.20	-1.5	MTN	20.44	167	eP	00	16.00	-0.4				ScP	08	45.00				
			iSg	53	32.50		LEM	23.56	234	ePd	00	51.00	3.3X				ScS	12	49.00				
TPE	0.96	187	iPn	53	37.50	4 8X		1.2s	134	.38nm		5.3mb		VLA	36.04	7	iP	02	40.00	0.8			
ULC	0.98	317	iPgc	53	31.97	-1.1	Z	18s	1	.72um		4.6Msz			1.5s	289	.00nm			6 0mb			
			iSg	53	46.46					eS	05	09.00					i	05	06.00				
FNA	1.04	116	iPg	53	31.54	-2.4				eLR	09	20.00		MRRJ	37.30	18	eP	02	51.00	1.2			
			eSg	53	45.54		KAGJ	24.16	9	P	00	53.90	0.6	MRWA	37.66	195	eP	02	53.50	0.5			
SKO	1.20	53	ePn	53	36.70	-0.1	SSE	24.29	349	Pc+	00	55.00	0.5		0.4s	17	.00nm			5.3mb			
			iSn	53	53.00			1.2s	18	.00nm		4.5mb X		FORT	37.82	178	eP	02	54.00	-0.2			
PVY	1.35	354	iPgc	53	39.14	-0.1	Z	20s	5	.10um		5.0Msz			0.3s	22	.00nm			5.6mb			
			iSg	54	00.23		N	20s	8	.20um				SHL	37.82	303	iP	02	55.50	0.8			
TTG	1.35	331	iPgc	53	38.88	-0.3				pP	01	12.00	74kmX				eS	08	42.00				
			iSg	53	59.41					sP	01	18.00		HOOJ	37.98	20	P	02	58.20	2.7			
SRN	1.38	185	ePn	53	40.20	0.6				PP	01	34.00		COOL	38.26	188	eP	02	57.00	-1.0			
BDV	1.43	316	iPgd	53	39.90	-0.5				S	05	08.00		BAL	38.81	194	eP	03	02.40	-0.2			
			iSg	54	01.52					sS	05	36.00			0.4s	28	.00nm			5.4mb			
IVA	1.63	353	iPnc	53	44.34	1.1				SS	06	06.00		KUSJ	39.10	21	P	03	06.80	1.9			
			iSg	54	09.26		KUMJ	25.48	8	P	01	05.90	0.0	ASAJ	39.32	18	P	03	08.60	1.9			
HCY	1.72	315	iPnd	53	45.46	0.9	IPM	25.61	266	ePc	01	08.90	1.6	KLB	39.52	192	eP	03	08.00	-0.6			
			iSn	54	10.22		LOE	26.32	295	iPc	01	15.00	1.1		0.4s	20	.00nm			5.2mb			
GRG	1.72	99	ePb	53	45.94	1.3	SHNJ	27.08	8	eP	01	19.40	-1.2	MUN	40.24	194	eP	03	14.40	-0.1			
			eSb	54	07.58		NST	27.27	290	eP	01	24.00	1.4		0.5s	64	.00nm			5.6mb			
NKY	1.78	331	iPnc	53	46.60	1.1	TKSJ	27.49	13	P	01	24.70	0.4	NWAO	40.92	192	eP	03	23.00	2.9			
			iSn	54	12.31		WRA	28.05	164	P	01	28.39	-1.1	STK	41.43	161	P	03	23.29	-0.9			
VAY	1.82	87	iPn	53	46.30	0.3		1.1s	10	.50nm		4.5mb X		YSS	41.97	16	iPc+	03	28.00	-0.5			
BRY	2.04	324	iPnd	53	49.73	0 5	WB2	28.05	164	iPd	01	28.10	-1.5		1.1s	110	.00nm			5.5mb			
			iSn	54	18.38			0.6s	26	.90nm		5.1mb		Z	18s	1	.00um			4.7Msz			
KNT	2.07	92	ePn	53	50.70	1.1				iScP	08	17.70		E	18s	0	.90um						
			eSn	54	20.34					e	08	25.70					e	05	15.00				
PLE	2.15	345	iPnd	53	52.06	1.2	WKYJ	28.10	16	P	01	30.50	0.5	KUR	42.10	22	iPc+	03	31.00	1.5			
			iSn	54	21.81		KHT	28.51	288	eP	01	36.70	2.9		1.0s	470	.00nm			6.2mb			
SOH	2.46	99	ePn	53	55.98	0.8	YONJ	28.52	12	P	01	34.20	0.5	RKG	42.56	192	eP	03	35.00	1.5			
SRS	2.60	92	ePn	53	58.11	1.0	BDT	28.75	293	eP	01	30.20	-5.6X		0.5s	23	.00nm			5.2mb			
OUR	3.05	106	ePn	54	03.78	0.3		0.8s	31	.10nm		5.1mb		BRS	42.71	145	iPd	03	34.00	-0.9			
S.D. = 1.2 on 22 of 23 obs.							KMI	28.95	311	Pc+	01	39.00	1.1		0.5s	9	.00nm			4.8mb			
----------								1.5s	250	.00nm		5.7mb		ADE	43.49	166	eP	03	41.70	0.6			
MAY 15, 1993 01h 55m 38.80± 0.14s								Z	20s	7	.60um		5.3Msz	GUN	43.68	303	P	03	36.60	-6.5X			
7.230 N ± 2 9km 126.641 E ± 3.9km								N	20s	3	.90um			PKI	43.95	303	P	03	39.80	-5.5X			
DEPTH = 31.3km (9 depth phases)								E	20s	4	.80um			KKN	44.13	303	P	03	40.00	-6.7X			
5.6mb (76 obs.) 5.1Msz (35 obs.)										pP	01	52.50	54kmX	DMN	44.22	302	P	03	42.00	-5.4X			
MINDANAO, PHILIPPINE ISLANDS (259)										S	06	27.00		ARMA	44.45	149	iPd	03	49.10	0.1			
Mw 5.8 (HRV).										sS	06	53.00			1.0s	96	.00nm			5.6mb			
CENTROID, MOMENT TENSOR (HRV)										SS	08	08.00		GKN	44.74	303	P	03	44.00	-7.5X			
Data Used: GDSN							MBL	28.99	193	eP	01	37.00	-1.0	CIT	45.91	349	eP	04	00.00	-0.3			
L.P.B.: 38S, 69C								0.5s	24	.00nm		5.2mb		Z	19s	2	.91um			5.2Msz			
Centroid Locotion:							TSRJ	29.45	16	P	01	42.10	0.1				eS	10	44.00				
Origin Time 01:55:47.1 0.2							IIDJ	29.96	19	eP	01	47.10	0.4	BWA	46.27	155	iPc	04	04.50	1.2			
Lat 7.19N 0.03 Lon 127.12E 0.03							OIS	30.41	155	iPd	01	51.60	0.9	ZAK	47.22	340	iPc	04	10.00	-0.6			
Dep 28.0 FIX Half-duration 1.9							CHJJ	30.83	20	P	01	53.20	-1.1		2.0s	44	.00nm			5.1mb			
Moment Tensor; Scale 10**17 Nm							MTMJ	30.95	18	P	01	55.10	-0.3	Z	19s	1	.65um			5.0Msz			
Mrr= 4.31 0.10 Mtt=-0.13 0.12							MAJO	31.03	18	ePc	01	54.90	-1.1	N	20s	1	.62um						
Mff=-4.18 0.18 Mrt= 2.74 0.25								0.7s	124	.03nm		5.8mb					e	05	42.00	479kmX			
Mrf= 0.51 0.26 Mtf=-1.50 0.10							MAT	31.03	18	iPc	01	54.80	-1.2				eS	10	53.00				
Principal Axes:								1.0s	135	.00nm		5.7mb					eSS	14	22.00				
T Val= 5.62 Plg=64 Azm= 3							KAKJ	31.38	21	P	01	56.10	-3.0	CAN	47.28	155	iPc	04	11.60	0.3			
N -0.72 24 207							ASPA	31.52	167	iPc	01	59.00	-1.4	CNB	47.43	155	iPc	04	12.50	0.0			
P -4.90 9 113								0.3s	30	.60nm		5.6mb			0.9s	41	.00nm			5.4mb			
Best Double Couple:Mo=5.3*10**17										eS	06	57.90		TOO	47.92	160	iPd	04	17.10	0.8			
NP1:Strike=177 Dip=41 Slip= 52										eScP	08	28.40			0.6s	28	.00nm			5.5mb			
NP2: 42 59 118										eScS	12	23.60		HYB	47.94	287	ePc	04	17.50	0.7			
							NIIJ	31.92	19	P	02	02.50	-1.3		1.0s	110	.00nm			5.8mb			
DAV	1.07	262	iP+	56	05.00	7.4X	CTA	33.31	145	iP	02	17.00	0.9				e	04	41.50	101kmX			
CGP	2.28	302	iPc	56	21.00	6.0X				ipPc	02	25.00	27km				e	05	44.00				
			eS	56	51.50					eS	07	29.00		IRK	48.50	342	ePc	04	19.00	-1.6			
CTB	2.42	269	iPd	56	24.00	6.9X				iScPc	08	36.50			6.0s	0	.50nm			2.7mb X			
			eS	57	10.00					ipScP	08	44.00			Z 18s	2	.29um			5.2Msz			
MAP	4.04	320	iPc	56	45.00	4.9X	CTAO	33.31	145	eP	02	16.55	0.5		N 20s	1	.83um						
			eS	57	19.00			0.7s	20	.41nm		5.1mb			E 17s	0	.56um						
PLP	4.24	337	ePd	56	48.20	5.3X	BJI	33.99	346	eP	02	13.00	-8.8X				e	04	32.00	48kmX			
			eS	57	22.50			1.2s	49	.00nm		5 3mb					e	04	57.00				
PPR	8.22	288	iPd	57	39.00	0.1		Z	20s	3	59um		5.1Msz				e	06	13.00				
			iS	58	37.00			N	20s	2	.66um						e	11	29.00				
PGP	8.37	319	ePd	57	48.50	7.4X				ePcP	04	59.00					e	11	41.50				
TGY	8.84	321	iPc	57	55.00	7.5X				eS	07	32.00		DZM	48.68	128	iPc	04	22.00	-0.4			
QCP	9.16	324	eP	57	58.50	6.5X	OFUJ	34.48	21	eP	02	26.60	0.6	GBA	48.74	282	P	04	24.00	1.1			
QVP	9.20	323	ePd	58	02.80	10.4X	MEEK	34.55	193	eP	02	26.00	-0.8	MOY	49.11	339	eP	04	25.30	0.1			
TSM	9.20	252	ePc	57	57.50	5.1X		0.3s	17	.00nm		5.5mb		BOD	51.42	352	iPc	04	41.90	-0.9			
KKM	10.42	264	ePd	58	15.00	5.6X	AOMJ	35.39	18	eP	02	35.50	1.8		1.0s	32	.00nm			5.2mb			
1.7s 234.30nm 6.2mb							LZH	35.49	327	Pc	02	35.00	0.1	UER	51.71	335	eP	04	44.50	-0.6			
			e	59	09.00			1.5s	108	.00nm		5.6mb			2.1s	57	.00nm			5.2mb			
8CP	10.87	328	eP	58	23.00	7.4X		Z	24s	9	.47um		5.5MszX		Z 17s	0	.83um			4.8MszX			

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      N  16s      0.41um                          |        0.8s   120.00nm          6.0mb   |                          eS   18 24.00
      E  18s      0.83um                          |      Z  18s     1.00um          5.1Msz  | BALM   84.22  29 iPd   08 09.18   0.7
                      e      06 44.00 673kmX      |      E  18s     1.00um                  |                          ePP  11 20.38
                      eS     12 08.50             |                  e     07 24.00  92kmX  | ANN    84.49 314 iPc   08 09.00  -1.0
                      PS     12 24.00             |                  eS    16 15.00         |        0.7s    90.00nm          6.1mb
PET     52.56  24 iPc+  04 52.00   0.5  | HON    73.80  70 P     07 20.00   7.5X  |                          eS   18 24.00
        1.0s   320.00nm          6.2mb  |      Z  20s     0.61um          4.9Msz  | KEV    86.59 340 eP    08 16.00  -4.0X
      Z 20s      1.40um          5.0Msz  | CSY    74.27 187 P     07 15.10   0.8  | SIM    86.73 315 eP    08 22.00   0.8
                      e      06 00 00 320kmX  | SDN    74.36  35 P     07 15.13   0.0  |                          e    11 48.00
                      e      12 18.00         |        0.4s   145.74nm          6.3mb   | BHL    86.84 304 P     08 21.00  -1.0
TAU     53.33 161 eP    04 52.00  -5.3X  | DHR    74.75 295 eP    07 06.13 -11.9X  |                          SKS  19 00.00
YAK     54.72   2 iPc   05 05.90  -1.3  | BAK    75.26 310 iPc   07 22.00   1.4  | HRI    86.84 303 iPc   08 22.80   0.7
        1.0s   180.00nm          6.1mb  |                  iS    17 00.00         | INK    86.96  22 ePc   08 22.60   0.8
      Z 18s      1.70um          5.2Msz  | SHE    76.23 310 iPc+  07 27.00   0.9  |        0.9s     7.00nm          4.9mb
      N 16s      1.20um                  |        1.0s   120.00nm          5.9mb   | PUL    86.99 330 ePc   08 22.00   0.0
                      e      06 05.00 269kmX  |      Z  16s     0.60um          5.0MszX |      Z  20s     0.90um          5.2Msz
                      i      07 08.00         |      N  16s     1.10um                  |      N  20s     0.70um
                      eS     12 41.00         |      E  18s     1.20um                  |      E  20s     0.90um
                      iPS    13 07.00         |                  iS    17 08.00         |                          e    08 32.00  31km
                      e      14 47.00         | MAK    77.22 312 iP+   07 32.00   0.4  |                          e    11 48.00
PRZ     55.05 318 iPd   05 11.00   0.8  |      Z  20s     1.00um          5.1Msz  |                          e    18 54.00
        1.2s   200.00nm          6.0mb  |      N  20s     1.50um                  |                          e    20 28.00
                      e      12 50.00         |      E  20s     1.50um                  | JVI    87.32 302 iPc   08 25.10   0.8
MGD     55.82  14 iPc   05 15.00  -0.3  |                  e     07 44.00  40km   | SBA    87.79 172 iPc   08 27.50   1.9
        1.1s   200.00nm          6.1mb  |                  e     10 26.00         | HOL    87.89 299 eP    08 28.00   0.9
                      e      06 12.00 258kmX  |                  eS    17 09.00         | RMN    88.11 300 iPc   08 28.50   0.3
                      e      13 14.00         |                  ePS   17 44.00         | SIT    88.34  33 P     08 40.00  11.4X
TLG     56.06 318 iP    05 18.00   0.7  | SVW    77.78  29 iPc   07 35.47   1.0  |      Z  21s     1.32um          5.3Msz
        2.7s    72.00nm          5.2mb  |        1.3s   154.70nm          5.9mb   | MBC    88.58  13 ePc   08 29.50   0.0
      Z 24s      1.80um          5.1MszX |                  ePP   10 28.29         |        0.9s    18.00nm          5.4mb
                      e      07 19.00 655kmX  | TTA    77.84  27 iPc   07 34.99   0.2  | CSS    88.61 305 eP    08 30.00  -0.4
                      e      14 57.00         |        0.8s    13.09nm          5.0mb   | PPCY   89.42 305 eP    08 33.70  -0.5
ELT     56.35 332 iPc   05 18.00  -1.1  | TAB    77.96 307 ePc+  07 37.00   1.0  | NUR    89.62 331 iP    08 33.70  -0.9
        1.7s    82.00nm          5.5mb  | GRS    77.97 309 iPc   07 36.60   0.5  |        0.5s    14.10nm          5.5mb
                      e      06 11.00 237kmX  |        1.4s   260.00nm          6.1mb   |                          eS   19 20.00
                      eS     13 05.00         |                  eS    17 26.00         | NAI    90.00 269 eP    08 40.00   2.4
                      e      15 04.00         | GRO    78.51 313 iPc+  07 39.00   0.3  | KIS    90.04 317 iPc+  08 35.00  -1.8
FRU     57 74 317 eP    05 29.00  -0.2  |        1.0s   330.00nm          6.3mb   |        1.1s   200.00nm          6.3mb
      Z 23s      5.80um          5.6MszX |                  eS    17 30.00         |      Z  24s     2.00um          5.5MszX
      E 23s      6.30um                  | BRW    78.91  19 iPd   07 41.02   0.7  |                          eS   19 26.00
                      e      07 40.00 726kmX  | KDC    79.05  33 iPc   07 41.82   0.5  | VRI    91.72 316 ePc   08 45.50   0.9
                      eS     13 25.00         |        0.7s    49.30nm          5.6mb   | CVO    92.10 317 eP    08 46.50   0.0
SMY     59 52  31 eP    05 41.98   0.6  | RSO    79.11  30 ePc   07 40.96  -1.0  | MLR    92.33 316 ePc   08 48.00   0.3
        1.1s   457.80nm          6.5mb  | MJMA   79.13 295 ePc   07 41.67  -0.8  | LVV    92.58 321 iP    08 49.00   0.5
OUE     60.26 301 ePc+  05 56.80   9.7X  | MTA    79.15 311 iPc   07 42.40   0.2  |                          e    12 30.00
        1.1s   645.57nm          6.7mb X |        0.8s   260.00nm          6.3mb   | CMP    93.00 316 ePc   08 50.00  -0.6
                      eS     14 02.00         |                  e     07 52.00  31km   | UPP    93.16 331 iP    08 50.20  -0.7
ADK     64.15  35 ePc   06 12.30  -0.2  |                  eS    17 40.00         | ALN    93.25 312 eP    08 50.58  -1.2
        1.0s   205.30nm          6.2mb  |                  ePS   18 24.00         | PVL    93.26 314 iPc   08 52.00   0.2
TIK     64.35   1 iPc+  06 11.00  -2 4  |                  ePPS  18 48.00         | DAG    93.81 352 iPd   08 52.20  -1.5
        1 5s   157.00nm          5.9mb  | IMA    79.24  24 iPc   07 42.90   0.4  |        0.7s    17.12nm          5.6mb
      Z 20s      1.00um          5.0Msz  |        0.7s    14.40nm          5.1mb   | PLD    93.97 313 iP    08 54.00  -1.1
                      i      06 22.00  36km   | ERE    79.38 309 iP+   07 44.00   0.3  | UZH    93.98 320 iPc   08 55.50   0.5
                      i      06 55.00         |                  iS    17 41.00         |        1.2s    110.00nm          6.2mb
                      e      14 44.00         | CP2    79.43  29 eP    07 43.79   0.2  |      Z  24s     1.40um          5.3MszX
                      e      15 11.00         | CRP    79.47  29 ePc   07 43.37  -0.4  |      N  24s     2.50um
NRI     66.95 346 ePc   06 22.00  -8.1X  |                  ePP   10 44.09         | PGB    94.25 314 iP    08 56.00  -0.5
                      e      06 54.00 131kmX  | SLKM   80.37  30 iPc   07 47.83  -0.6  | MMB    94.80 313 iP    08 58.00  -1.0
                      eS     15 15.00         | PYA    80.41 313 iPc+  07 48.60  -0.4  | HFS    94.90 332 eP    08 57.30  -1.7
                      ePPS   15 54.00         |                  eS    17 48.00         |        0.7s    14.40nm          5.5mb
                      e      16 20.00         | KIV    80.68 313 iPc   07 50.80   0.2  |      Z  18s    782.00um          8.2MszX
                      eSS    19 40.00         |        1.6s   190.00nm          5.8mb   |                          LR   45 18.00
MAIO    67.36 306 iPc   06 33.50   0.0  |      Z  22s     1.30um          5.2Msz  | OUR    94.91 312 eP    08 58.14  -1.3
        0.9s    36.23nm          5.5mb  |                  e     10 52.50         | SRS    95.01 312 eP    08 58.30  -1.6
                      eS     15 38.00         |                  e     17 47.80         | OJC    95.10 322 iPd   09 00.20   0.1
ASH     68.49 308 P     06 40.50   0.1  | PMR    80.94  29 iPd   07 50.95  -0.4  |                          i    09 09.50  29km
        1.4s   320.00nm          6.2mb  |        0 8s    64 28nm          5.7mb   | SPC    95.13 321 eP    09 01.20   0.7
KAT     70 27 309 iP+   06 51.50   0.3  |      Z  20s     0.70um          5.0Msz  | KKB    95.20 313 iPc   08 59.00  -1.8
      Z 18s      1.60um          5.3Msz  | FBA    81.62  25 ePc   07 54.25  -0.6  | PAIG   95.23 311 iP    08 59.37  -1.5
      E 18s      2.00um                  |        0.9s    15.48nm          5.0mb   | SOH    95.26 312 eP    08 59.46  -1.7
                      e      07 11.00  73kmX   |                  epP   08 12.25  65kmX  | KNT    95.51 313 iP    09 00.86  -1.3
                      e      09 33.00         | ABHA   82.00 287 eP    08 00.00   1.9  | THE    95.59 312 eP    09 01.02  -1.5
                      ePPP   11 14.00         | KLU    82.48  29 iPc   08 00.00   0.5  | NB2    95.63 334 P     09 00.80  -1.6
                      eS     16 06.00         |                  ePP   11 05.83         |        0.6s     6.80nm          5.3mb
                      ePS    16 31.00         | SOC    82.84 313 iPc+  08 00.00  -1.7  | NAO    95.89 334 P     09 00.37  -3.2X
                      e      16 48.00         |        0.6s   140.00nm          6.2mb   | GRG    95.92 312 eP    09 02.46  -1.7
ILT     70.56  19 iPc+  06 52.00  -0.5  |                  e     11 19.00         | AGG    96.47 311 eP    09 04.06  -2.6
        1.4s    87.00nm          5.6mb  |                  eS    19 04.00         | FNA    96.72 312 eP    09 08.34   0.6
                      e      07 12.00  75kmX   | MOS    83.53 325 iPc   08 04.00  -0.9  | KSP    97.01 323 iPc   09 08.90   0.1
                      ePPP   11 10.00         |      Z  22s    21.00um          6.5MszX | CIR    97.26 250 iPd   09 11.90   1.5
                      eS     16 03.00         |                  eS    18 18.00         | ZST    97.42 321 e(P)  09 10.40  -0.3
SVE     70.95 328 iPc   06 55.00  -0.1  | OBN    84.15 325 iPc+  08 08.00  -0.1  | IGT    97.83 311 eP    09 11.50  -1.2
        2.0s   260.00nm          6.0mb  |        1.9s   590 00nm          6.4mb   | MCW    97.87  39 eP    09 13.58   0.8
                      e      07 15.00  75kmX   |      Z  22s     1.90um          5.4Msz  | GMW    98.29  40 eP    09 15.55   0.9
                      e      09 41.00         |      N  22s     0 90um                  | PRU    98.36 323 iPc   09 14.90   0.0
                      eS     16 04.00         |      E  22s     1.90um                  |        1.7s    51.40nm          5.8mb
ARU     71.93 327 iPc+  07 00.00  -0.9  |                  e     08 18.00  32km   |      Z  23s     1.30um          5.4MszX
```

15d 02h

		e	09	24.10	29km		
BMW	98.37	41 eP	09	15.61	0.5		
BRG	98.38	324 iPc	09	14.80	-0.2		
	1.3s	32.00nm			5.7mb		
		i	09	23.60	27km		
CLL	98.76	324 iPc	09	16.10	-0.6		
	1.6s	27.00nm			5.5mb		
PTJ	98.93	319 eP	09	17.80	0.1		
RMW	98.95	40 eP	09	18.89	1.2		
SHW	99.12	41 eP	09	19.47	0.9		
KHC	99.27	322 P	09	18.80	-0.3		
	1.4s	17.80nm			5.4mb		
		e	16	21.00			
		Sg	16	31.00			
GEC2	99.30	322 P	09	19.00	-0.3		
	0.7s	6.22nm			5.2mb		
		e	09	23.20	13kmX		
		e	12	21.30			
MOX	99.83	324 iPc	09	21.50	-0.1		
	1.6s	32.00nm			5.6mb		
	Z 22s	0.90um			5.2Msz		
BUL	99.96	251 iPd	09	21.10	-1.8		
	1.0s	10.00nm			5.3mb		
LSZ	99.99	256 iPd	09	22.00	-1.0		
GRF	100.46	323 ePdiff	09	24.90	0.5		
	1.4s	41.00nm			5.8mb		
	Z 22s	1.00um			5.3Msz		
LBFM	101.02	46 ePdiff	09	27.57	0.2		
DPW	101.04	38 ePdiff	09	27.57	0.5		
NEW	101.54	38 ePdiff	09	29.50	0.2		
	0.8s	15.42nm			5.7mb		
SAO	102.88	50 Pdiff	09	50.00	14.5X		
	Z 21s	0.85um			5.2Msz		
CMB	103.24	48 Pdiff	09	50.00	12.9X		
	Z 20s	0.87um			5.3Msz		
LPG	105.00	321 ePKP	14	06.90	7.0X		
	0.9s	6.70nm					
LPL	105.01	321 ePKP	14	06.70	6.8X		
	0.9s	7.85nm					
ISA	105.51	50 PKP	14	10.00	9.1X		
	Z 21s	0.91um			5.3Msz		
FCC	106.57	21 ePKP	14	06.00	4.0X		
BCAO	107.33	277 iPKPc	14	04.00	-0.9		
	0.5s	5.00nm					
		ec	15	07.10			
DUG	107.81	44 PKP	14	10.00	4.8X		
	Z 21s	0.59um			5.1Msz		
BW06	108.77	40 ePKP	14	04.22	-2.9		
SRU	109.88	44 ePKP	14	09.36	0.1		
RSSD	111.47	37 ePKP	14	11.62	-0.5		
	Z 21s	0.34um			4.9Msz		
GOL	113.05	41 ePKPc	14	15.32	0.0		
	Z 22s	0.54um			5.1Msz		
ALQ	114.72	46 ePKP	14	18.96	0.3		
JAQ	116.33	15 ePKP	14	19.50	-1.3		
LTX	119.50	51 ePKP	14	26.12	-1.6		
MEO	120.28	43 iPKPc	14	28.50	-0.5		
EEO	121.69	21 ePKP	14	33.50	2.3		
SLM	122.94	34 PKP	14	40.00	6.1X		
	Z 19s	0.30um			5.0Msz		
FVM	123.30	35 ePKP	14	33.96	-0.6		
MIAR	123.70	40 ePKPc	14	35.20	-0.3		
	Z 22s	0.62um			5.2Msz		
GAC	123.71	18 ePKPd	14	35.50	0.4		
OLY	124.38	38 ePKP	14	35.98	-0.8		
CBM	124.50	12 PKP	14	50.00	13.3X		
	Z 20s	0.83um			5.4Msz		
LMN	126.17	10 ePKP	14	42.50	2.5		
MCWV	127.31	26 PKP	14	50.00	7.7X		
	Z 20s	0.79um			5.4Msz		
HRV	127.79	17 PKP	14	50.00	6.9X		
	Z 21s	0.52um			5.2Msz		
GPD	128.22	20 ePKPc	14	43.61	-0.4		
GBTN	128.39	32 ePKPc	14	44.11	-0.4		
NAV	128.80	28 ePKP	14	44.35	-1.0		
KIC	129.65	284 PKP	14	47.00	-0.5		
		PKS	18	03.00			
TIC	129.85	285 PKP	14	47.40	-0.5		
		PKS	18	04.00			
LIC	129.96	284 PKP	14	47.50	-0.6		
	Z 22s	0.39um			5.1Msz		
		PKS	18	04.00			
GOGA	130.50	33 ePKP	14	49.42	0.8		
	Z 20s	0.31um			5.0Msz		
PRM	130.58	32 ePKP	14	49.13	0.4		
JSC	131.00	31 ePKP	14	49.27	-0.2		
		eSKP	17	06.15			
STH	145.82	42 iPKPd	15	17.43	0.5		
GWJ	145.87	42 iPKPd	15	17.25	0.1		
RFA	149.26	155 ePKPc	15	22.30	0.2		
MDZ	150.70	153 ePKP	15	28.70	4.4X		
		e	15	30.10			
RTBS	151.43	150 ePKPc	15	32.10	6.8X		
PORP	151.66	27 (PKP)	15	25.00	-1.0		
CLLP	151.67	27 (PKP)	15	25.00	-1.0		
RTCV	151.70	152 ePKPc	15	32.00	6.2X		
RTCB	151.89	151 iPKPc	15	33.00	6.8X		
CPD	152.00	26 (PKP)	15	27.50	0.9		
CFA	152.05	152 ePKPc	15	33.00	6.7X		
RTLL	152.17	151 iPKPd	15	32.70	6.2X		
MRA	152 44	157 e(PKP)	15	27.70	1.0		
RTRS	152.63	149 ePKPd	15	28.50	1.4		
TCA	153.82	158 ePKPc	15	37.00	8.1X		
RTPR	153.94	153 ePKPd	15	37.10	8.2X		
CYA	155.85	152 ePKP	15	31.30	-0.3		
NNA	156.38	103 ePKP	15	33 20	0.5		
FSA	157.71	149 ePKPc	15	35 00	1.0		
PPD	165.15	187 ePKP	15	41.90	0.2		
SIV	168.48	140 iPKPc	15	58.80	14.5X		
		i	17	08.40			

S.D. = 1.1 on 216 of 265 obs.

MAY 15, 1993 01h 56m 19.12± 0.52s
37.513 N ±10.2km 134.882 E ± 6.9km
DEPTH = 373.3 ± 5.6 km
4.4mb (30 obs.)
SEA OF JAPAN (660)

MAT	2.83	109 iPd	57	18.90	-0.4		
		iS	58	06.00			
MRRJ	6.83	42 eP	58	01.70	1.0		
		eS	59	20.70			
HOOJ	8.08	50 eP	58	16.10	0.9		
		eS	59	42.00			
ASAJ	8.84	39 eP	58	23.00	-1.1		
		eS	00	00.00			
KUSJ	9.35	50 eP	58	30.00	-0.2		
		eS	00	08.50			
SSE	13.00	245 Pc	59	12.50	-1.0		
	1.0s	42.00nm			4.8mb		
BJI	14.81	286 eP	59	32.50	-0.4		
	1.4s	76.00nm			4.9mb		
LZH	24.84	276 eP	01	11.00	0.0		
	1.6s	25.00nm			4.3mb		
		pP	01	14.70	13kmX		
NNT	40.00	241 eP	03	23.40	2.8		
IMA	48.94	31 eP	04	31.10	0.6		
	0.8s	1.72nm			3.4mb		
INK	56.31	27 eP	05	25.00	1.0		
MBC	57.52	16 ePd	05	32.00	-0.3		
	0.5s	2.00nm			3.8mb		
YKA	65.94	28 eP	06	26.50	-1.2		
	0.9s	1.20nm			3.6mb		
UPP	70.14	332 iP	06	52.90	-0.5		
HFS	71.41	333 eP	07	00.30	-0.6		
	0.5s	11.40nm			4.8mb		
NB2	71.63	335 P	07	02.00	-0.3		
	0.7s	8.00nm			4.5mb		
CLL	77.97	327 iP	07	38.20	0.2		
	1.0s	15.00nm			4.7mb		
PRU	78.24	325 eP	07	39.00	-0.4		
KHC	79.29	325 P	07	46.00	0.9		
GEC2	79.44	325 e(P)	07	46.20	0.2		
	0.5s	1.90nm			4.1mb		
GRF	79.93	327 iPd	07	49.70	1.3		
	0.7s	8.00nm			4 6mb		
BW06	80.93	42 eP	07	53.79	-0.3		
	0.9s	1.98nm			3.9mb		
CDF	82 60	328 eP	08	02.50	0.2		
	0.7s	3.10nm			4.2mb		
RSSD	82.82	38 (P)	08	04.37	0.7		
	0.8s	3.62nm			4.2mb		
HAU	83.30	328 eP	08	05.70	-0.1		
	0.5s	2.75nm			4.3mb		
PV09	84.12	45 eP	08	11.39	1.0		
LOR	84.92	329 eP	08	13.60	-0.3		
	0.5s	1.60nm			4.1mb		
LPL	85.08	326 eP	08	15.10	0.2		
	0.8s	5.25nm			4.4mb		
LPG	85.08	326 eP	08	15.30	0.2		
	0.5s	3.80nm			4.5mb		
LBF	85.10	329 eP	08	14.40	-0.4		
	0.9s	3.75nm			4.2mb		
SSF	85.23	329 eP	08	15.20	-0.2		
	1.0s	6.80nm			4.4mb		
FLN	85.40	332 eP	08	15.80	-0.3		
	0.4s	2.85nm			4.5mb		
LDF	85.41	332 eP	08	15.90	-0.3		
	0.5s	3.50nm			4.5mb		
AVF	85.51	329 eP	08	16.60	-0.1		
GRR	85.85	332 eP	08	18.30	0.0		
LPF	86.21	332 eP	08	20.40	0.3		
	0.7s	6.05nm			4.6mb		
MAF	86.29	329 eP	08	20.70	0.2		
	0.5s	2.05nm			4.3mb		
TCF	86.38	329 eP	08	20.90	-0.1		
	0.5s	1.40nm			4.1mb		
LSF	86.69	330 eP	08	22.30	-0.1		
	0.4s	1.90nm			4.3mb		
LRG	86.85	325 eP	08	22.90	-0.3		
	0.4s	3.00nm			4.5mb		
LMR	86.88	325 eP	08	22.90	-0.5		
	0.5s	3.50nm			4.5mb		
CAF	87.55	329 eP	08	27.10	0.5		
	0.6s	1.80nm			4.1mb		
LFF	88.08	329 eP	08	29.50	0.4		
	0.6s	6.95nm			4.7mb		
LPO	88.11	329 eP	08	29.90	0.7		
EPF	89.81	328 eP	08	37.10	-0.1		
LTX	93.83	48 eP	08	55.21	-0.8		
TIC	122.31	311 PKP	14	31.00	-1.0		
KIC	122.37	310 PKP	14	31.00	-1.1		
ZOBO	150.67	50 PKP	15	29.20	5.4X		
	1.1s	52.20nm					
		i	16	32.30			
		LR	13	38.00			
LPB	150.89	50 PKP	15	23.00	-0.9		
		i	16	32.40			
CNCB	151.17	51 PKP	15	28.50	4.0X		
		i	16	29.80			

S.D. = 0.8 on 49 of 51 obs.

? MAY 15, 1993 02h 15m 38.91± 1.71s
51.237 N ±21.5km 15.688 E ± 8.3km
DEPTH = 5.0km (geophysicist)
POLAND (548)
ML 3.1 (VIE).

KSP	0.55	136 iPd	15	48.60	-1.3		
	0.3s	63.00nm					
		iS	15	57.70			
		e	16	04.50			
BRG	1.16	252 iPg	16	02.50	1.5		
		iSg	16	22.40			
PRU	1.45	211 Pn	16	06.20	0.4		
		Pg	16	08.00			
		Sn	16	24.80			
		eSg	16	31.00			
CLL	1.69	274 iPn	16	07.70	-1.5		
		iPg	16	10.50			
		iSg	16	35.80			
HOF	2.59	251 ePn	16	21.60	-0.6		
MOX	2.64	259 ePg	16	30.30	7.4X		
		iSg	17	09.30			
OJC	2.80	110 iPd	16	26.60	1.4		
		iS	17	01.90			
VKA	3.00	172 iPgd	16	36.30	8.3X		
		eSg	17	20.00			
GRF	3.25	243 ePn	16	31.60	0.1		
		ePg	16	43.40			
		e(Sn)	17	14.00			
		eSg	17	24.50			

S.D. = 1.5 on 7 of 9 obs.

MAY 15, 1993 02h 20m 19.94± 0.95s
44.441 N ± 8.1km 8.813 E ± 6.7km
DEPTH = 5.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.0 (LDG), 1.9 (GEN).

PCP	0.22	298 P	20	23.99	-0.4		
		S	20	26.96			
CKI	0.38	268 P	20	27.50	-0.1		
		eSg	20	33.50			
FIN	0.49	242 P	20	29.84	0.0		
		S	20	36.80			
BOB	0.56	54 P	20	30.50	-0.6		
		eSg	20	38.70			
ROB	0.69	258 P	20	33.37	-0.4		
		S	20	42.48			
IMI	0.85	232 P	20	37.12	0.3		

```
ENR     1.02 258 P      20 39.27  -0.5
                 S      20 52.73
STV     1.09 260 P      20 40.69  -0.2
                 S      20 54.74
DOI     1.12 274 P      20 41.40  -0.1
                 eSg    20 43.60
SBF     1.15 240 Pg     20 42.90   1.0
                 Sg     20 57.30
BHB     1.18 290 P      20 40.97  -1.4
PZZ     1.23 274 P      20 42.57  -0.8
FRF     1.79 241 Pg     20 54.50   2.7X
                 Sg     21 17.80
LPG     1.80 307 Pg     20 53.60   1.4
LPL     1.83 307 Pg     20 54.30   1.8
LMR     2.00 237 Pg     20 59.10   4.4X
                 Sg     21 24.20
LRG     2.03 242 Pg     20 59.50   4.4X
                 Sg     21 25.60
     S.D. = 1.0  on  14 of  17 obs.
-----------------------------------------
* MAY 15, 1993  02h 26m 48.53± 1.06s
  43.007 N ± 9.2km   20.777 E ± 8.5km
  DEPTH =  10.0km  (geophysicist)
 NORTHWESTERN BALKAN REGION        (383)
     ML 2.6 (TTG).

IVA     0.66 258 iPgd   27 00.47  -1.3
                 iSg    27 09.19
PVY     0.72 235 iPgc   27 02.09  -0.7
                 iSg    27 09.19
PLE     1.06 288 iPgd   27 07.14  -1.5
                 iSg    27 21.16
SKO     1.14 154 ePn    27 08.70  -1.3
                 eSn    27 25.00
TTG     1.26 243 iPgc   27 11.66  -0.2
                 iSg    27 29.35
NKY     1.32 262 iPgd   27 12.37  -0.6
                 iSg    27 29.99
ULC     1.54 228 iPgc   27 17.78   1.7
                 iSg    27 39.25
BDV     1.61 244 iPgd   27 18.32   1.3
                 iSg    27 41.08
BRY     1.64 267 iPgc   27 17.90   0.2
                 iSg    27 40.23
HCY     1.77 252 iPnd   27 21.13   1.7
                 iSg    27 44.56
SSR     1.98  20 ePc    27 23.00   0.5
BZS     2.68  13 ePc    27 27.00  -5.4X
     S.D. = 1.3  on  11 of  12 obs.
-----------------------------------------
   MAY 15, 1993  03h 09m 38.19± 0.16s
   16.673 N ± 2.8km   98.417 W ± 2.7km
   DEPTH =  19.7km  (geophysicist)
   5.9mb ( 94 obs.)  5.8Msz ( 15 obs.)
 NEAR COAST OF GUERRERO, MEXICO  ( 58)
      Mw 6.0 (GS). Ms 5.7 (BRK). Felt
      strongly ot Mexico City. Depth
      from broodbond displocement
      seismogroms.
      FAULT PLANE SOLUTION: P-Woves
       NP1:Strike=115 Dip=77 Slip=  90
       NP2:       295     13       90
       Principol Axes:
        T              Plg=58  Azm= 25
        P                  32      205
      Comment: The focol mechonism is
        poorly controlled ond
        corresponds to reverse
        foulting. The preferred foult
        plane is NP2.
      RADIATED ENERGY
       No. of sta:   6  Focol mech.  M
       Energy        8.5±2.7*10**12 Nm
      MOMENT TENSOR SOLUTION
      Dep  17           No. of sta: 13
      Moment Tensor;   Scale 10**18 Nm
        Mrr= 0.28       Mtt=-0.53
        Mff= 0.25       Mrt= 0.90
        Mrf=-0.53       Mtf=-0.16
       Principol oxes:
        T  Val=  1.17  Plg=48  Azm= 49
        N       -0.05      21      294
        P       -1.13      35      189
      Best Double Couple.Mo=1.1*10**18
       NP1:Strike=224 Dip=22 Slip=  19
       NP2:       117     83      111
```

```
ACX     1.39 278 iPc    09 58.40  -4.2X
OXX     1.67  76 iP     10 10.04   3.2X
III     1.97 330 iP     10 12.09   1.0
IIT     2.34   3 iP     10 17.54   1.1
PPM     2.39 355 iP     10 18.79   1.4
IIA     2.47 355 iP     10 21.86   3.7X
IISM    2.51  23 iPc    10 21.06   2.5
UNM     2.74 345 (P)    10 23.50   1.2
CRX     2.97 336 (P)    10 27.50   2.0
MRX     4.01 319 iP     10 40.44   0.6
SCX     5.54  89 eP     11 05.17   3.5X
CGX     5.66 303 (P)    11 09.79   6.2X
TPX     6.18 106 iP     11 11.84   1.1
AGX     6.35 325 (P)    11 24 33  11.3X
MZX     9.94 312 (P)    12 05.20   2.1
LTX    13.49 340 ePc    12 51.37   0.2
                 e      12 58.62
BUTX   14.98   4 iP     13 10.76   0.2
MEO    18.04 360 iPd    13 47.50  -1.9
MIAR   18.32  13 iPc    13 51.26  -1.6
       1.3s   830.37nm          5.7mb
FNO    18.53   3 iPc    13 54.90  -0.6
OCO    18.79   2 iPc    14 00.40   1.7
TUC    19.18 326 iPc    14 03.49   0.0
ALO    19.57 340 eP     14 07.38  -0.8
       1.4s   495.62nm          5.6mb
ANMO   19.57 340 iPc    14 07.42  -0.7
OLY    19.75  17 ePc    14 08.21  -1.7
ACO    19.96 358 iPd    14 10.60  -1.5
BBJ    20.24  82 ePd    14 14.94  -0.2
                 S      17 09.58
PCJ    20.33  84 ePd    14 15.44  -0.6
                 S      17 09.92
STH    20.66  83 ePd    14 17.84  -1.7
                 S      17 13.15
GWJ    20.74  83 ePd    14 20.00  -0.4
GRT    21.09  21 eP     14 24.36   0.6
GOGA   21 43  36 iPc    14 26.47  -0.8
       1.5s  1996.14nm          6.3mb
GLA    22.03 321 iPd    14 33.83   0.5
ELC    22.08  20 eP     14 32.32  -1.4
CCM    22.22  15 ePc    14 34.17  -0.9
FVM    22.36  17 ePc    14 34.86  -1.7
       1.0s   159.91nm          5.4mb
PRM    22.55  37 ePc    14 38.31  -0.1
GBTN   22.76  31 ePc    14 40.13  -0.4
HBF    22.97  42 eP     14 42.66   0.2
TKL    22.97  32 ePc    14 42.37  -0.2
SGS    23.05  41 eP     14 43.86   0.5
JSC    23.33  38 ePc    14 46.15   0.1
PLM    23.50 318 eP     14 48.63   0.7
GOL    23.73 347 iPc    14 50.77   0.6
PEC    24.04 319 eP     14 53.36   0.4
       2.1s  1673.73nm          6.2mb
SSK    24.58 319 eP     14 59.42   1.0
SRU    24.73 337 ePc    15 00.19   0.3
RPV    24.74 317 ePc    15 00.27   0.6
GSC    24.77 322 iPc    15 00.90   0.8
PAS    24.85 318 iPc    15 01.25   0.5
ARUT   24.85 331 iPc    15 02.37   1.4
MSU    24.88 334 ePc    15 01.96   0.6
EMUT   25.46 337 ePc    15 07.33   0.5
                 e      15 15.56  29kmX
TPNV   25.63 325 eP     15 10.13   1.8
       1.0s   165.24nm          5.6mb
CEH    25.73  38 iPc    15 08.77  -0.3
       1.3s  3246.36nm          6.8mb
NAV    25.79  34 eP     15 09.44  -0.2
PSO    25.85 124 eP     15 13.00   2.2
BLA    25.91  34 eP     15 10.76   0.0
       1.6s  1306.54nm          6.3mb
ABL    25.96 318 ePc    15 11.35  -0.1
ISA    26.02 320 iPc    15 12.32   0.5
       1.6s   450.12nm          5.9mb
SBC    26 03 317 ePc    15 11.90   0.1
DAU    26.15 337 ePc    15 13.64   0.4
DUG    26.56 335 iP     15 17.50   0.6
       0.7s    67.75nm          5.4mb
BOG    26.72 114 iPc    15 22.00   3.2X
                 iS     20 10.00
BCH    26.72 318 eP     15 18.65   0 3
TNP    26.98 326 iPc    15 20.78  -0.1
       1.0s    58.69nm          5.2mb
PHAM   27.33 319 eP     15 23.11  -0.7
BONR   27 48 324 P      15 25.33  -0.2
MEMM   27.64 323 (P)    15 25.91  -0.7
BW06   27.70 342 iPc    15 27.00  -0.4
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       1.4s   613.62nm          6.1mb
                 i      15 34.26  26kmX
RSSD   27.77 351 ePd    15 27.99   0.0
       0.8s    13.82nm          4.7mb X
HVU    27.90 337 P      15 29.16   0.0
MCWV   28.04  32 iPc    15 29.93  -0.2
       0.6s    54.67nm          5.5mb
SDV    28.15 103 ePd    15 32.80   1.2
KVN    28.16 326 P      15 32.06   0.5
CBN    28.31  37 eP     15 33.00   0.4
                 e      15 44.00  41kmX
                 e      18 26.00
SAO    28.56 319 (P)    15 35.21   0.2
SAO    28.56 319 eP     15 27.91  -7.1X
     Z  18s     19.00um          5.7Msz
                 ePcP   18 23.91
                 eS     20 19.91
                 eLQ    23 08.91
                 eLR    25 33.91
TOV    28.67 100 ePc    15 36.90   0.7
                 iPP    15 38.20
CMB    28.73 322 iPc    15 35.93  -0.6
     Z  18s     11.00um          5.5Msz
                 ePcP   18 26.68
                 eS     19 26.68
                 eLQ    22 09.68
                 eLR    24 06.68
ARN    28.98 320 P      15 38.86   0.1
MHC    29.05 320 ePc    15 35.14  -4.3X
     Z  18s     22.00um          5.8Msz
                 ePcP   18 30.14
                 eS     20 31.14
                 eLQ    23 17.14
                 eLR    24 02.14
STAN   29.42 319 eP     15 39.71  -2.9
     Z  18s     20.00um          5.8Msz
                 ePcP   18 34.71
                 eS     20 40.71
                 eLQ    23 52.71
                 eLR    26 46.71
BKS    29.75 320 ePc    15 45.09  -0.5
     Z  18s     18.00um          5.7Msz
                 ePcP   18 38.09
                 eS     20 21.09
                 eLQ    23 20.09
                 eLR    25 41.09
DLA    29.80  25 P      15 44.00  -1.9
MGP    29.92  83 (P)    15 54.50   7.2X
LDN    30.11  26 P      15 46.15  -2.6
TPMT   30.12 341 eP     15 50.00   0.9
ELF    30.18  25 P      15 46.85  -2.5
APR    30.24  82 (P)    15 56.00   5.8X
NTYM   30.33 320 P      15 59.36   8.6X
PORP   30.34  83 (P)    15 47.00  -4.1X
ORV    30.40 323 eP     15 51.71   0.4
CLLP   30.40  83 (P)    15 47.00  -4.5X
MCMT   30.59 340 iPc    15 53.70   0.5
TYNO   30.71  27 P      15 52.62  -1.4
MIN    30.99 324 eP     15 56.09  -0.6
CPD    31.03  83 (P)    15 56.00  -1.1
ACTO   31.04  26 P      15 55.20  -1.8
LPR    31.06  82 P      15 57.00  -0.5
STCO   31.11  28 P      15 56.00  -1.5
LCCM   31.18 342 iPc    15 58.70   0.4
                 e      18 21.60
CAR    31.19  97 iPd    15 58.00  -0.7
LRM    31.34 341 iPc    16 00.10   0.2
                 e      16 08.50  29kmX
                 e      18 22.10
HBMT   31.36 341 ePc    16 00.30   0.2
                 e      16 08.90  30kmX
LBFM   31.83 325 P      16 03.77  -0.4
GPD    31.87  36 P      16 03.90  -0.4
GMTN   31.94  36 iP     16 05.40   0.6
                 i      19 00.20
HRY    31.96 342 ePc    16 05.00  -0.1
                 e      16 13.00  28kmX
PNJ    31.97  36 iP     16 04.80  -0.3
WLVO   32.02  28 P      16 04.23  -1.3
TBR    32.09  36 P      16 05.87  -0.3
PAL    32.17  36 P      16 06.43  -0.5
FOX    32.48 322 eP     16 10.16   0.6
CRNY   32.58  36 P      16 09.11  -1.3
FHC    32.65 323 eP     16 11.51   0.4
ARC    32.75 323 eP     16 00.90 -11.0X
     Z  19s     20.00um          5.8Msz
                 epP    19 02.90
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			eS	21	31.90		FRB	51.32	16	ePc	18	42.40	-0.5	DMU	77.59	37	eP	21	43.40	8.9X
			eLQ	25	05.90			1.0s	25.00nm			5.1mb			1.4s	404.00nm			6.3mb	
			eLR	28	26.90		SLA	52.19	141	ePd	18	50.20	0.0	DLF	77.93	38	eP	21	35.70	-0.6
LNOR	33.51	335	P	16	17.20	-1.3	FSA	52.91	143	eP	18	54.50	-0.8		1.6s	201.00nm			5.9mb	
ULM	33.56	3	ePc	16	19.60	0.8	RTRS	54.29	149	ePc	19	06.50	1.1	DLF	77.93	38	eP	21	45.30	9.0X
JBO	33.85	333	P	16	20.75	-0.7	CYA	54.84	145	ePc	19	08.40	-1.2		1.4s	261.00nm			6.1mb	
EEO	33.92	24	ePc	16	23.60	1.5				i	22	03.70		ECB	77.97	39	iPc	21	36.50	-0.1
			pP	16	33.40	34kmX	RTBS	55.52	150	e(P)d	19	14.70	0.4	ECB	77.97	39	eP	21	45.10	8.5X
CROR	34.00	331	P	16	22.93	0.1	RTCB	55.69	149	ePc	19	15.00	-0.7		1.4s	618.00nm			6.5mb	
BPO	34.09	330	P	16	23.77	0.0	RTPR	55.90	146	e(P)c	19	15.90	-1.2	MBO	77.98	78	iPc	21	38.70	1.4
FBO	34.28	329	P	16	27.96	2.7	CFA	56.06	149	ePc	19	18.50	0.1	ETA	78.24	38	eP	21	38.00	-0.1
VGB	34.31	332	ePc	16	24.85	-0.6	RTCV	56.12	149	ePd	19	19.40	0.6	ETA	78.24	38	eP	21	46.60	8.5X
HRV	34.49	36	iPc	16	26.36	-0.6	INK	56.20	345	ePc	19	18.70	-0.2	ECP	78.25	39	iPc	21	38.10	0.0
	1.4s	321.51nm			6.1mb			1.0s	36.00nm			5.4mb		ECP	78.25	39	eP	21	46.60	8.5X
			epPc	16	32.82	22kmX				pP	19	27.50	29kmX		1.5s	599.00nm			6.4mb	
RNO	34.59	327	P	16	28.08	0.2	KIP	56.26	285	(P)	19	18.98	-0.9	STS	78.76	49	iPc	21	40.69	-0.5
SSOR	34.61	329	P	16	27.27	-0.9		1.7s	329.27nm			6.1mb		ESK	79.39	35	(P)	21	44.29	0.0
MGH	34.64	85	eP	16	27.00	-1.6	MDZ	56.81	150	eP	19	24.10	0.4				e	21	51.98	24kmX
GAC	34.72	29	eP	16	29.00	0.2				e	19	29.80	19kmX	EKA	79.41	35	P	21	47.00	2.6
MDW	34.72	334	P	16	28.12	-0.8				e	22	23.50			1.6s	114.70nm			5.6mb	
COR	34.84	328	ePc	16	29.83	-0.1	PMR	57.27	334	ePc	19	25.70	-0.9	ERUA	79.88	49	iPc	21	47.24	0 0
			epPc	16	35.21	18kmX		1.7s	123.20nm			5.7mb		EPLA	81.21	51	iPc	21	54.30	-0.1
OD2	34.91	336	P	16	29.88	-0.7	Z	22s	12.90um			6.0MszX		EVAL	81.32	53	iPd	21	55.82	0.9
BPA	34.96	84	eP	16	29.00	-2.3	PMS	57.29	333	ePc	19	26.20	-0.6	FOO	81.74	28	eP	21	57.87	1.3
NEW	35.04	338	P	16	31.40	-0.3	RUV	57.77	239	iPc	19	34.10	3.4X	SUE	81.79	29	eP	22	03.07	6.2X
	1.0s	18.96nm			5.0mb			1.9s	1397.10nm			6.7mb		AVE	81.85	58	iP	21	58.00	0.2
DPW	35.11	337	P	16	31.87	-0.4	TPT	57.86	240	iPc	19	34.70	3.4X				i	22	32.00	134kmX
ASR	35.16	332	P	16	33.59	0.7		1.7s	664.60nm			6.4mb					i	24	52.00	
PAG	35.23	86	eP	16	31.00	-2.7	MRA	57.99	147	e(P)	19	30.70	-1.2	GIBL	82.12	54	eP	22	03.00	3.8X
EBG	35.29	333	P	16	34.20	0.3	VAH	58.00	240	iPc	19	35.70	3.4X	EHOR	82.41	53	iPc	22	00.40	-0.2
SAW	35.44	335	P	16	34.97	-0.1		2.0s	1240.80nm			6.6mb		ALJ	82.43	54	eP	22	03.00	2.1
GLK	35.48	332	P	16	35.66	0.1	PMO	58.10	240	iPc	19	36.60	3.6X	PLAT	82.45	55	eP	22	03.00	2.1
MDN	35.58	87	eP	16	44.04	7.5X		2.0s	1133.50nm			6.6mb		GUD	82.49	50	iPc	22	01.30	0.2
			e	19	22.93		COL	58.39	338	iPc	19	32.43	-2.0	LIJA	82.52	54	eP	22	03.00	1.7
NNA	35.58	142	eP	16	37.50	0.9		1.3s	110.75nm			5.8mb		LOF	82.53	21	eP	21	58.94	-1.7
	1.0s	20.00nm			5.0mb					ed	19	36.74	14kmX	TIO	82.58	60	iPc	22	02.20	0.4
Z	20s	6.38um			5.4MszX					ec	19	40.30					i	24	56.40	
MGG	35.59	86	eP	16	35.00	-1.6	FBA	58.39	338	ePc	19	33.30	-1.1	EJIF	82.59	54	iPd	22	02.57	1.0
WTV	35.66	335	P	16	36.72	-0.3		0.9s	24.20nm			5.3mb		LPF	82.60	42	iPc	22	01.60	0.2
KMOR	35.68	329	P	16	37.29	0 1	MRS	59.21	328	e(P)	19	30.70	-9.4X		1.2s	57.10nm			5.6mb	
LON	35.71	332	iPc	16	36.59	-0.9	SVW	59.91	332	ePc	19	43.10	-1.9	GRR	82.62	42	iPc	22	01.90	0.5
			esPd	16	45.28			1.1s	42.00nm			5.5mb			1.4s	97.15nm			5.7mb	
DEG	35.79	85	eP	16	35.00	-3.4X	PPD	60.07	128	eP	19	44.10	-2.5	PAB	82.63	51	iPc	22	02.25	0.4
FDF	35.90	88	eP	16	39.40	0.1				e	19	51.20	23kmX				esPd	22	10.94	
BIM	36.00	88	eP	16	40.90	0.7				e	22	39.40		EPRU	82.64	54	iPc	22	01.73	-0.2
BNH	36.02	34	eP	16	40.21	0.2	MBC	60.59	354	ePc	19	48.40	-1.0	FLN	82.75	41	iPc	22	02.60	0.5
SLB	36.14	89	eP	16	42.17	0.8		1.0s	61.00nm			5.7mb		NKM	82.90	55	iP	22	05.00	1.8
			e	16	49.66	25kmX				pP	19	57.50	30kmX				i	22	19.00	48kmX
BMW	36.16	331	P	16	41.10	-0.1	PPN	60.66	238	iPc	19	53.70	3.1X				i	24	59.50	
MVM	36.16	88	eP	16	41.80	0.2		1.5s	318.60nm			6.2mb		LDF	83.03	41	iPc	22	04.10	0.5
RMW	36.25	333	P	16	41.83	-0.2	TTA	60.75	334	ePc	19	48.90	-1.9		1.5s	111.80nm			5.8mb	
TPP	36.45	95	eP	16	43.76	-0.2	PPT	60.80	238	iPc	19	54.50	2.9	ECRI	83.14	48	iPc	22	04.33	0.0
			e	16	51.66	27kmX		2.3s	2388.60nm			6.9mb X		ELUQ	83.23	53	iPc	22	04.26	-0.7
GMW	36.75	332	P	16	45.13	-1.0	Z	23s	******um			9.1MszX		MAL	83.34	54	iPc	22	07.00	1.6
JCW	36.87	334	P	16	46.33	-0.8	AFR	60.95	238	iPc	19	55.50	2.9				iS	32	28.00	
STW	37.60	332	P	16	53.80	0.6		1.7s	923.40nm			6.6mb					i	35	36.00	
MCW	37.63	333	P	16	53.39	-0.1	IMA	61.11	337	ePc	19	51.20	-2.1	TRO	83.51	18	iPc	22	07.10	1.4
MIM	37.64	35	P	16	53.58	0.0		1.9s	61.50nm			5.4mb		MFF	83.60	43	iPc	22	07.00	0.4
PGC	37.88	333	eP	16	55.00	-0.5	VAO	63.92	127	eP	20	10.80	-1.7		1.8s	138.95nm			5.9mb	
	1.0s	70.00nm			5.4mb					e	20	17.30	21kmX	IFR	83.64	57	iP	22	20.00	12.7X
EMM	38.19	36	P	16	58.39	0.2				e	23	06.20		ECOG	83.84	53	iPd	22	08.22	0.1
HNME	38.79	34	P	17	03.61	0.4	LPA	64.11	144	eP+	20	08.00	-5.3X	EGUA	83.96	54	iPd	22	09.30	0.7
CBM	39.21	33	ePc	17	06.71	0.0				eS	28	46.00		ETOR	83.97	49	iPc	22	08.82	0.1
	1.5s	242.58nm			5.7mb		ADK	69.85	320	eP	20	47.30	-2.1	EVIA	84.26	52	iPc	22	10.43	0.2
			ePPc	17	12.75	20kmX	AKU	70.95	26	iP	20	56.30	0.4	PET	84.40	324	eP	22	10.00	-0.4
			esPd	17	15.07			2.0s	564.71nm			6.4mb			2.0s	170.00nm			5.9mb	
LMN	40.37	37	eP	17	19.50	3.1X	ILT	71.03	337	iPc+	20	56.00	-0.3	Z	22s	5.15um			5.9Msz	
			pP	17	31.50	44kmX		2.2s	230.00nm			5.9mb					e	22	19.00	28kmX
JAQ	41.06	20	ePc	17	21.50	-0.4	Z	20s	11.00um			6.1Msz					e	25	33.00	
FCC	42.14	3	ePc	17	33.30	2.6	N	20s	5.20um								eS	32	38.00	
			pP	17	41.50	28kmX	E	16s	6.50um					EHUE	84.43	52	iPc	22	11.22	0.2
ARE	42.29	140	eP	17	35.00	2.2				i	21	05.00	29kmX	KONO	84.54	29	iPc	22	12.17	1.2
ZOBO	44.32	136	iPc	17	48.70	-0.8				e	23	30.00					esPd	22	21.28	
	1.0s	60.00nm			5.4mb					iS	30	14.00		LFF	84.70	45	iPc	22	12.70	0.6
Z	24s	3.15um			5.2MszX					i	30	56.00			1.4s	104.10nm			5.9mb	
			LR	33	28.00					eSS	34	48.00		NB2	84.70	27	P	22	12.80	0.9
LPB	44.52	136	P	17	50.80	-0.2	DAG	71.51	14	iPd	20	58.10	-1.1		1.6s	227.70nm			6.2mb	
Z	18s	10.65um			5.8Msz			0.9s	63 87nm			5.7mb		EGRA	84.81	48	iPc	22	14.65	2.0
			PPS	20	45.00		TBT	74.03	64	eP	21	21.60	6.8X	LSF	84.81	43	iPc	22	12.90	0.2
			LR	33	33.00		TBT	74.03	64	iPc	21	14.68	-0.2	ENIJ	84.97	53	eP	22	13.97	0.3
CNCB	44.80	136	P	17	50.00	-3.5X				epPc	21	21.63	22kmX	DOMF	85.01	39	P	22	14.14	0.6
YKA	47.16	350	eP	18	09.60	-1.3	VAL	75.95	40	eP	21	26.00	0.7	EPF	85.02	47	iPc	22	14.40	0.6
	1.2s	111.40nm			5.8mb		GGC	76.11	65	eP	21	28.00	1.2		1.8s	325.40nm			6.3mb	
ANT	48.57	145	eP	18	23.00	0.7	CFTV	77.39	64	iP	21	35.00	1.0	UCC	85.08	38	P+	22	14.00	0.2
SIV	49.09	129	iPc	18	39.00	12.4X	KBS	77.57	11	iPc	21	35.40	1.4				e-	22	23.00	28kmX
YJA	50.29	139	ePc	18	35.30	-0.9	DMU	77.59	37	eP	21	34.40	-0.1	LPO	85.08	45	iPc	22	14.60	0.6
HJA	51.12	140	ePd	18	43.00	1.1		1.6s	318 00nm			6.1mb			1.8s	258.95nm			6.2mb	

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DBN	85.10	37	eP	22	15.00	1.1	MOF	87.84	40	P	22	27.41	-0.2				e	25	39.40										
			ePcP	22	21.00		ESEL	87.89	49	eP	22	29.43	1 5	FVI	91.86	40	P	22	46.60	0.3									
RJF	85.11	44	iPc	22	14.50	0.3	HOFF	87.93	39	P	22	28 34	0.5	KSP	91.92	35	eP	22	45.60	-1.0									
	1.7s	247.05nm			6.2mb		LIBD	88.02	40	P	22	28.10	-0.2				i	22	55.40	31kmX									
ECHE	85.13	50	iPd	22	15.18	0.7	UPP	88.06	27	iP	22	27.40	-0.9				e	25	40.00										
SNF	85.13	39	iPc	22	14.64	0.5				ı	22	36.70	29kmX				e	26	25.00										
			ic	22	24.47	31kmX	FEL	88.38	40	P	22	29.88	-0.4				e	29	18.20										
HYF	85.20	42	iPc	22	15.30	0.7	LPL	88.47	43	iPc	22	31.50	0.6	KBA	91.99	39	iPc	22	47.00	-0.2									
TCF	85.25	43	iPc	22	15.10	0.2		1.4s	24.20nm			5.3mb			1.7s	73.50nm			5.8mb										
	1.4s	166.00nm			6.1mb		LPG	88.49	43	iPc	22	31.80	0.7				i	22	56.50	30kmX									
EALH	85.31	52	iPc	22	16.79	1.5	CDR	88.52	45	ePc	22	31.00	0.1	KMR	92.01	38	iP+	22	47.50	0.5									
DOU	85.46	39	P	22	16.30	0.5	LRG	89.00	45	iPc	22	33.60	0.5				i	22	56.40	28kmX									
MAF	85.50	43	iPc	22	16.30	0.2	BSD	89.12	32	iPc	22	42.30	8.8X	PGD	92.39	43	P	22	48.50	-0.6									
	1.7s	323.50nm			6.3mb			1.1s	55.00nm			5.8mb		RBL	92.42	40	P	22	48.40	-0.6									
BGF	85.57	43	iPc	22	16.60	0.1	LMR	89.15	45	eP	22	33.60	-0.3	SFI	92.46	43	P	22	49.30	0.2									
	1.5s	165.55nm			6.0mb		FRF	89.16	45	eP	22	33.90	0.0	CRE	92.65	43	P	22	49.90	-0.3									
CAF	85.59	44	iPc	22	17.00	0.3	DOI	89.20	44	P	22	34.60	0.4	VOY	92.81	40	e(P)	22	38.50	-12.4X									
	1.8s	225.30nm			6.1mb		ORO	89.24	42	P	22	34.80	0.4				ePcP	22	50.30										
MUD	85.62	32	eP	22	19.50	3.1X	MOX	89.38	37	iPc	22	35 00	0.2				e(PP)	25	44.90										
	0.9s	18.00nm			5.3mb			2.1s	108.00nm			5.8mb		RSM	92.84	43	P	22	51.90	1.0									
MGD	85.62	332	eP	22	16.00	-0.4				i	22	44.20	29kmX	TRI	92.87	41	eP	22	51.70	0.7									
	1.2s	50.00nm			5.6mb		BRN	89.48	35	eP	22	36.50	1.3				e	23	00.30	27kmX									
			e	22	24.00	25kmX				e	22	44.00	23kmX				e	25	45.70										
			eS	32	51.00		BRNL	89.56	35	ePd	22	35.50	-0.1				e	26	32.00										
			ePS	34	00.00					ed	22	43.00	23kmX				e	29	38 00										
LESF	85.67	46	P	22	18.00	0.9	GRF	89.56	38	ePc	22	36.30	0.6	YAK	92.88	339	iPc	22	50.00	-0.8									
WIT	85.69	36	eP	22	19.00	2.1		2.1s	211.00nm			6.0mb			2.0s	130.00nm			6.0mb										
SALF	85.69	47	P	22	18.53	1.3				e(pP)	22	43.70	23kmX	LJU	93.19	40	ePc	22	46.50	-6.0X									
EROO	85.75	49	P	22	26.87	9.4X	SBF	89.57	44	eP	22	35.50	-0.4				e(PP)	25	46.00										
EROO	85.75	49	iPd	22	18.15	0.7	VAI	89.65	42	P	22	35.80	-0.3				e	29	28.00										
KEV	85.76	17	eP	22	16.00	-1.0	HOF	89.67	37	eP	22	36.40	0.2				eSKS	33	27.00										
EBR	85.81	49	eP	22	18.00	0.2	CLL	89.87	36	iPc	22	36.30	-0.8				e	36	23.00										
			ePP	25	12.00			1.8s	61.00nm			5.5mb					e	37	30.00										
AVF	85.82	42	iPc	22	17.50	-0.2				pP	22	44.00	24kmX	VKA	93.20	37	iPc	22	52.70	0.2									
	1.7s	128.65nm			5.9mb		FUR	90.25	39	eP	22	39.10	0.1		Z 20s		3.70um			5.8MszX									
SSF	85.83	42	iPc	22	17.70	0.0	KAF	90.29	23	iP	22	37.50	-1.3				i	23	02.40	30kmX									
	1 6s	200.25nm			6.1mb			1.1s	72.90nm			5.9mb					LR	06	45.00										
ACU	85.87	51	eP	22	19.58	1 4	MOTA	90.50	40	iPc	22	40 00	-0.3	CEY	93.27	40	ePc	22	53.20	0.3									
AGO	85.93	43	P	22	18.28	0.0		1.6s	81.00nm			5.8mb					e(PP)	25	47.00										
PYM	85.95	43	P	22	18.73	0.3				i	22	49.40	29kmX	PUL	93.30	23	(P)	22	52.00	-0.7									
LOR	85.99	42	iPc	22	18.70	0.2	BRG	90.60	36	iPc	22	40.60	0.1		1.4s	210.00nm			6.4mb										
	1.7s	339.65nm			6.3mb			1.5s	100.00nm			5.9mb					i	23	00.00	25kmX									
ENN	86.01	38	ePc	22	18.50	0.0				ipP	22	49.10	26kmX	ARV	93.35	43	P	22	53.10	-0.2									
	1.7s	770.00nm			6.6mb					i	22	58.30		ASS	93.36	43	P	22	52.90	-0.5									
			e	22	27.00	27kmX				eS	33	24.00		RIY	93.43	41	eP	22	49.90	-3.7X									
			e	22	50.00		SQTA	90.62	40	iPc	22	40.80	0.0	SOP	93.63	38	eP	22	53.00	-1.5									
WTS	86.07	37	eP	22	19.50	0.7		1.7s	81.30nm			5.7mb		MNS	93.68	44	P	22	55.10	0.2									
	1.0s	102.60nm			6.0mb					i	22	49.70	28kmX	WAR	93.72	32	e(P)	22	55.00	0.2									
			e	22	28.50	28kmX	NUR	90.63	24	iP	22	39.60	-0 8				e	25	47.00										
			e	22	51.50			1.0s	44.20nm			5.7mb					e	26	35.00										
LSPF	86.13	46	P	22	20.30	1.0	WET	90.78	38	iPc	22	41.80	0.4				e	29	35.00										
LBF	86.16	42	iPc	22	19.30	-0.1		1.7s	126.00nm			5.9mb		PTJ	94.14	40	eP	22	57.10	0.1									
	1.5s	129.00nm			5.9mb		WATA	90.80	40	iPc	22	41.40	-0.2	OJC	94.16	35	eP	22	57.30	0.4									
SMF	86.19	42	iPc	22	19.40	-0.2				i	22	50.90	30kmX		Z 20s		2.50um			5.7Msz									
	1.8s	139.85nm			5.9mb		WTTA	90.86	40	iPc	22	42.00	0.0				eS	33	20.00										
HFS	86.20	28	eP	22	18.20	-1.1		2.0s	130.00nm			5.9mb		ZAG	94.19	40	ePc	22	57.00	-0.1									
	1.1s	16.70nm			5.2mb					i	22	50.80	27kmX				i	25	52.00										
	Z 17s	3319.00um			8.8MszX		KHC	91.19	38	Pc	22	43.50	0.2	AZI	94.35	44	P	22	58.60	0.7									
		LR		54	54.00			1.7s	22.00nm			5.2mb		SRO	94.59	37	eP	23	00.80	1.9									
PLDF	86.28	43	P	22	19.93	-0.2				e	22	51.80	26kmX	SPC	94.96	35	eP	23	01.20	0.4									
LBL	86.28	44	P	22	20.53	0.4				e	23	33.50					e	25	55.30										
TIK	86.31	347	iPc+	22	18.50	-1.2	PRU	91.35	36	iPc	22	43.60	-0.3				e	29	44.20										
	2.0s	530.00nm			6.4mb			1.9s	81.10nm			5.8mb		BUD	95.17	37	e(P)	23	01.00	-0.5									
	Z 23s	2.00um			5.5MszX					e	22	50 70	22kmX	MNK	95.94	29	eP	23	04.00	-0.9									
		i		22	27.00	27kmX	TIC	91.35	83	P	22	44.00	-0.6		Z 22s		7.40um			6.1Msz									
		e		32	50.00					e	25	38.00			E 22s		5.60um												
WLF	86.56	39	iPd	22	22.72	1.5	GEC2	91.40	38	P	22	43.10	-1.2	YSS	96.24	323	(P)	23	08.00	1.5									
	2.4s	151.50nm			5.8mb			1.1s	9.99nm			5.1mb					e	34	16.00										
		ic		22	31.26	27kmX				e	22	53.50	32kmX	UZH	96.40	35	iPc+	23	07.40	0.3									
MTHF	86.57	46	P	22	22.22	0.7				e	22	58.20			2.0s	140.00nm			6.1mb										
BNS	86.68	38	ePc	22	21.80	0.0				e	25	37.90			Z 21s		6.30um			6.1Msz									
PERF	86.96	47	P	22	24.07	0.7				e	25	48.20			E 21s		10.00um												
VITF	86.99	40	P	22	23.42	0.0				e	26	27.50					i	23	16.60	29kmX									
ETER	B7.01	47	iPd	22	24.48	0.9				e	26	34.10					e	26	56.00										
SDF	87.04	19	eP	22	22.90	-0.4				e	28	50.70					e	33	40.00										
HAU	87.29	41	eP	22	25.00	0.1				e	28	58.40					eS	34	12.00										
COP	87.61	32	iPc	22	36.00	9.9X				e	29	14.70					ePS	35	43.00										
	1.0s	52.00nm			5.8mb		GEC2	91.40	38	e(P)	22	52.50	8.2X	LVV	96.66	33	iP	23	09.00	0.7									
		i		25	20.00			1.0s	22.60nm			5.5mb					e	23	17.00	25kmX									
BSF	87.63	41	eP	22	26.40	-0.3	GEC2	91.40	38	e(P)	22	58.30	14.0X	BZS	97.68	38	ePc	23	10.00	-3.0									
CDF	87.71	40	P	22	26.56	-0.5		1.3s	12.80nm					ERM	98.62	318	(PDIF)	23	15.37	-1.9									
TNS	87.71	38	ePc	22	27.00	0.1	CTI	91.40	41	P	22	43.80	-0.6	MOS	98.92	23	eP	23	18.00	-0.4									
		ic		22	36.30	29kmX	BHG	91.42	39	eP	22	44.70	0.4				i	23	27.00	28kmX									
ECH	87.72	40	P	22	26.56	-0.4	LIC	91.47	83	P	22	44.60	-0.5				e	27	24.00										
WLS	87.76	40	P	22	26.73	-0.5		Z 21s		2.75um			5.7Msz				e	33	55.00										
LANF	87.82	39	P	22	27.41	0.0				e	25	38.60		OBN	98.99	24	iPDIFc	23	17.61	-1.1									
LOMF	87.84	41	P	22	27.24	-0.4	KIC	91.70	83	P	22	45.80	-0.4		2.0s	220.00nm			6.4mb										

15d 03h

	Z 22s	5.20um		6.0Msz			
	N 22s	3.60um					
	E 22s	3.90um					
		esPd	23 26.47				
		i	27 22.00				
		e	33 56.00				
		iPS	36 16.00				
SKO	99.55	41 eP	23 22.00	0.5			
		i	23 30.20	26kmX			
OHR	99.60	42 iP	23 23.20	1.3			
	1.3s	80.00nm		6.1mb			
		i	23 31.50	26kmX			
CMP	99.86	37 ePd	23 24.00	1.0			
CVO	100.18	36 ePdiff	23 23.00	-1.3			
MLR	100.24	36 ePdiff	23 19.50	-5.2X			
VRI	100.46	36 ePdiff	23 14.00	-11.5X			
VAY	100.61	41 ePdiff	23 36.00	9.7X			
KIS	100.91	34 ePdiff	23 25.00	-2.4			
		e	29 43.00				
		e	34 05.00				
		iPS	36 34.00				
BUC1	100.97	37 ePdiff	23 32.00	4.2X			
ARU	104.69	13 ePdiff	23 44.00	0.0			
		e	28 08.00				
		e	34 24.00				
		e	37 18.00				
ARU	104.69	13 ePdiff	23 39.46	-4.6X			
SVE	104.73	12 iPdiff	23 52.50	8.3X			
	Z 29s	3 50um		5.7MszX			
	N 29s	2.00um					
	E 29s	2.50um					
		iPPP	28 02.50				
		e	37 21.00				
		e	43 00.00				
KIV	109 97	29 (Pdiff	24 08.43	0.4			
GRO	111 80	27 ePKP	28 15.00	1.5			
	Z 23s	5.20um		6.1MszX			
	N 22s	9.60um					
	E 25s	9.00um					
		i	29 05.00				
		i	31 22.00				
BCAO	114 28	77 iPKPc	28 21.00	1.8			
	1.0s	35.00nm					
		ic	29 10.00				
		ic	32 04.90				
SSE	119.14	321 PKPd	28 34.50	6.6X			
	Z 20s	2.80um		5.9Msz			
	N 16s	1.00um					
	E 16s	1.10um					
		e	29 40.00				
TLG	120.23	4 ePKP	28 27.00	-2.7			
	2.1s	10.00nm					
		e	29 51.00				
		e	35 20.00				
FRU	120.45	6 iPKP	28 30.00	-0.1			
	2.0s	40.00nm					
		e	28 38.00				
		e	29 58.00				
		ePS	39 50.00				
PRZ	121.07	3 iPKP	28 31.00	-0.5			
	1.2s	30.00nm					
		e	30 03.00				
MAIO	123.33	21 ePKP	28 36.00	0.1			
		e	30 16.00				
		i	33 10.00				
LZH	123.46	338 ePKP	28 35.00	-1.3			
	Z 23s	5.38um		6.1MszX			
	N 17s	4.61um					
		pPKP	28 42.50				
		PP	30 17.50				
		i	31 29.00				
		PPP	32 56.00				
		SKS	35 43.00				
STK	123.88	243 ePKP	28 35.40	-1.6			
	0.6s	1.80nm					
		e	28 41.80				
ENH	126.14	330 ePKPc	28 39.77	-1.7			
FRS	127.14	115 ePKP	28 43.20	-0.1			
BLF	127.90	114 ePKP	28 44.50	-0.5			
KSR	128.53	110 ePKP	28 43.50	-2.9			
	0.6s	19.00nm					
LSZ	128.77	96 iPKPc	28 46.00	-1.0			
		i	30 50.50				
		i	31 41.00				
		i	33 47.00				
LSZ	128.77	96 iPKPc	28 46.20	-0.8			
		i	29 53.10				
		i	30 50.00				
		i	31 41.00				
		i	33 43.00				
SEK	129.18	113 e(PKP)	28 42.00	-5.5X			
	1.0s	80.00nm					
BUL	129.79	103 ePKP	28 49.00	0.2			
WB2	129.96	258 iPKPc	28 47.90	-1.1			
	0.7s	9.30nm					
		i	28 53.80				
		e	31 42.40				
WRA	129.97	258 PKP	28 48.30	-0.7			
	0.7s	3 10nm					
ASPA	130.62	253 ePKP	28 48.30	-1.9			
	0.6s	15.20nm					
QUE	131.32	17 ePKP	28 52.00	0.4			
		e	31 41.50				
		e	32 28.00				
		e	35 10.50				
MTD	132.22	98 iPKPd	28 49.60	-3.9X			
		i	28 56.30				
LSA	132.98	349 ePKPc	28 54.54	-0.5			
NAI	133.35	76 PKP	28 58.50	2.6			
	Z 18s	6.80um		6.4MszX			
		PP	31 22.00				
		PPP	32 28.00				
		LQ	44 36.00				
		PKKP	49 46.00				
KMI	133.62	333 PKPd	28 56.00	-0.1			
	3.0s	110.00nm					
	Z 25s	3.60um		6.0MszX			
	N 20s	2.50um					
	E 20s	3.70um					
		PP	32 24.00				
		e	32 26.00				
NDI	134.71	5 ePKP	28 57.00	-0.8			
CHTO	140.82	333 ePKP	29 07.20	-2.2			
NST	143.01	329 ePKP	29 09.00	-4.2X			
KHT	144.52	331 iPKPc	29 13.70	-2.1			
BAL	145.12	240 ePKP	29 13.00	-3.5X			
		e	29 20.00				
MUN	145.14	238 ePKP	29 13.00	-3.5X			
		e	29 20.00				
KHKI	145.82	280 ePKPc	29 14.20	-3.9X			
		e	31 27.00				
HYB	145.99	5 ePKPc	29 18.00	-0.3			
GBA	149.64	8 PKP	29 24.00	-0.1			
IPM	151.45	316 ePKPc	29 32.30	5.4X			
		e	32 26.50				
LEM	152.73	288 iPKPc	29 41.50	12.6X			
KOD	152.96	9 ePKP	29 36.00	6.6X			
	S.D. = 1.0	an 397 of 458 obs.					

MAY 15, 1993 03h 12m 32.72± 0.27s
16.698 N ± 5.1km 98.395 W ± 3.9km
DEPTH = 20.8km (geophysicist)
6.1mb (70 obs.) 5.9Msz (32 abs.)
NEAR COAST OF GUERRERO, MEXICO (58)
Mw 6.1 (GS), 6.1 (HRV). Slight damage at Mexico City. Felt in the states of Guerrera, Michoacan, Oaxaca, Puebla, Tlaxcala and Veracruz. Depth from broadband displacement seismograms.
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=134 Dip=72 Slip= 90
NP2: 314 18 90
Principal Axes:
T Plg=63 Azm= 44
P 27 224
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
MOMENT TENSOR SOLUTION
Dep 21 No. of sta: 13
Moment Tensor; Scale 10**18 Nm
Mrr= 1.18 Mtt=-1.51
Mff= 0.33 Mrt= 0.63
Mrf=-0.66 Mtf= 0.40
Principal axes:
T Val= 1 58 Plg=64 Azm= 74
N 0 21 22 291
P -1.79 15 195
Best Double Couple:Mo=1.7*10**18
NP1:Strike=258 Dip=36 Slip= 51
NP2: 123 63 114
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 27S, 59C
Centroid Location:
Origin Time 03:12:36.3 0.6
Lat 16.45N 0.05 Lon 97.92W 0.04
Dep 38.5 BDY Half-duration 2.5
Moment Tensor; Scale 10**18 Nm
Mrr= 0.61 0.04 Mtt=-1.17 0.05
Mff= 0.56 0.07 Mrt= 0.79 0.07
Mrf=-0.60 0.06 Mtf= 0.26 0.03
Principal Axes:
T Val= 1.26 Plg=51 Azm= 72
N 0.31 30 297
P -1.56 23 194
Best Double Couple:Mo=1.4*10**18
NP1:Strike=242 Dip=35 Slip= 30
NP2: 127 74 121

ACX	1.41	277 (P)	12 04.50	-52.8X			
		(S)	12 22.50				
III	1.96	329 (P)	12 27.00	-38.4X			
PPM	2.37	355 (P)	12 37.00	-34.5X			
IISM	2.48	23 (P)	13 15.00	2.4			
MRX	4.00	319 (P)	12 59.00	-35.2X			
SCX	5.52	89 (P)	13 51.50	-4.3X			
		(S)	15 01.50				
CGX	5.67	303 (P)	13 32.00	-26.1X			
TPX	6.17	106 (P)	14 10.50	5.6X			
LTX	13.48	340 (P)	15 44.68	-0.7			
BUTX	14.96	3 iP	16 09.26	4.6X			
TUC	19.17	326 iPc	16 57.49	-0.3			
		epPc	17 02.96	21kmX			
ANMO	19.55	340 ePc	17 01.83	-0.6			
OLY	19.72	17 eP	17 01.71	-2.3			
GRT	21.05	21 eP	17 18.86	1.1			
GOGA	21.40	36 iPc	17 20.16	-1.2			
	1.1s	961.81nm		6.1mb			
		ec	17 23.80	13kmX			
GLA	22.03	321 (P)	17 28.13	0.4			
ELC	22.05	20 eP	17 27.50	-0.3			
CCM	22.19	15 ePc	17 28.59	-0.6			
	1.0s	889.39nm		6.2mb			
FVM	22.33	17 eP	17 30.13	-0.5			
	0.5s	364.87nm		6.1mb			
	Z 19s	32.70um		5.8Msz			
PRM	22.52	37 eP	17 31.43	-1.1			
GBTN	22.73	31 ePc	17 34.25	-0.3			
HBF	22.94	42 eP	17 36.85	0.3			
TKL	22.94	32 eP	17 35.58	-1.1			
SLM	23.00	17 P	17 50.00	12.9X			
	Z 20s	19.11um		5.5Msz			
SGS	23.02	41 eP	17 36.77	-0.6			
JSC	23.30	38 eP	17 38.47	-1.7			
PLM	23.49	318 eP	17 42.65	0.4			
PEC	24.03	319 eP	17 46.70	-0.6			
SSK	24.58	319 P	17 53.80	1.0			
SRU	24.72	337 eP	17 54.37	0.3			
GSC	24.76	322 iPc	17 55.32	0.9			
		ec	18 03.01	27kmX			
ARUT	24.84	331 eP	17 55.82	0.6			
PAS	24.84	318 iPc	17 55.59	0.5			
MSU	24.87	334 eP	17 56.28	0.7			
EMUT	25.44	337 eP	18 01.08	0.0			
TPNV	25.62	325 eP	18 03.65	1.0			
	1.0s	274.91nm		5.9mb			
CEH	25.69	38 ePc	18 03.12	0.0			
		ec	18 04.77	6kmX			
NAV	25.75	34 eP	18 03.53	-0.2			
ABL	25.95	318 eP	18 06.18	0.3			
ISA	26.01	320 iPc	18 06.65	0.5			
	1.2s	178.44nm		5.6mb			
	Z 18s	29.09um		5.9Msz			
SBC	26.02	317 iPc	18 06.32	0.1			
DAU	26.13	337 eP	18 07.30	-0.2			
DUG	26.55	335 P	18 12.28	1.1			
	1.3s	333.14nm		5.8mb			
BCH	26.72	318 eP	18 13.33	0.6			
PHAM	27.32	318 eP	18 18.85	0.7			
MEMM	27.64	323 eP	18 22.75	1.9			
BW06	27.69	342 iPc	18 20.78	-0.9			
RSSD	27.75	351 eP	18 21.24	-0.9			
	Z 20s	16.97um		5.6Msz			
HVU	27.89	337 eP	18 23.99	0.6			
KVN	28.15	326 eP	18 26.38	0.6			
SAO	28.56	319 P	18 40.00	10.7X			

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15d 03h

| | | |

15d 04h

ARN	34.35	316	iPd	27	21.95	0.6
LCCM	34.90	335	eP	27	25.60	-0.5
LRM	35.12	335	eP	27	27.50	-0.6
ULM	35.14	356	eP	27	28.00	0.2
			pP	28	00.50	146kmX
NTYM	35.66	316	ePd	27	33.07	0.8
LBFM	36.82	321	ePd	27	42.43	0.1
ARE	37.31	147	eP	27	49.00	2.3
LMN	38.09	31	eP	27	56.50	3.8X
ZOBO	39.05	142	P	28	02.20	0.6
	0.9s	43.69nm			5.2mb	
			i	33	45.20	
DPW	39.21	332	eP	28	01.14	-0.9
			epP	28	31.14	134km
VLL	39.26	326	P	28	03.86	1.3
LPB	39.27	142	iPc	28	04.30	1.1
SSOR	39.30	325	P	28	02.28	-0.6
RNO	39.44	323	P	28	04.39	0.4
CNCB	39.56	143	iPc	28	04.00	-1.8
			i	30	09.70	
SAW	39.65	331	P	28	05.62	0.0
EBG	39.66	329	P	28	05.99	0.3
ASR	39.67	327	P	28	06.57	0.7
WTV	39.91	330	P	28	08.16	0.4
MTMW	39.91	327	P	28	07.92	0.1
SHW	40 03	327	(P)	28	10.55	1.6
LON	40.18	328	eP	28	09.66	-0.3
			epP	28	42.18	147kmX
KMOR	40.35	325	P	28	12.50	1.0
JAO	40.58	15	ePc	28	11.20	-1.9
BMW	40.74	327	eP	28	14.62	0.0
RPW	41.18	330	P	28	17.33	-0.8
JCW	41.21	329	P	28	17.11	-1.3
CMW	41.46	330	P	28	19.38	-1.1
BLN	41 60	328	P	28	21.31	-0.3
MCW	41.98	329	eP	28	23.78	-0.9
			epP	28	53.90	134km
FCC	43.55	358	eP	28	38.50	1.3
			pP	29	11.50	148kmX
YJA	45.21	145	ePc	28	52.00	0.5
FSA	48.10	148	iP	29	14.60	1.1
YKA	49.93	346	eP	29	25.00	-2.1
	0.6s	13.70nm			5.0mb	
FRB	51.15	13	eP	29	34.00	-2.4
	0.6s	4.00nm			4.4mb	
MDZ	52.60	156	eP	29	49.60	1.9
TCA	53.14	151	iPc	29	51.00	-0.6
PPD	54.27	132	eP	29	57.20	-2.9
VAO	58.04	130	eP	30	25.40	-1.5
BALM	58.26	334	(P)	30	27.36	-0.7
INK	59.37	343	eP	30	34.50	-0.9
	0.9s	3.00nm			4.3mb	
KLU	60.00	333	eP	30	38.97	-1.0
PMR	61.45	333	eP	30	48.54	-1.1
	1 0s	7.68nm			4.6mb	
SLKM	61.54	331	ePc	30	49.07	-1.3
KDC	61.75	328	eP	30	50.53	-1.2
	0.7s	10.89nm			4.9mb	
FBA	62.24	336	eP	30	52.61	-2.3
	1.1s	6.30nm			4.5mb	
			epP	31	25.92	139km
			esP	31	41.29	
CRP	62.69	332	eP	30	56.32	-1.8
			(pP)	31	28.54	134km
			esP	31	44.19	
RSO	62.71	331	eP	30	57.18	-1.1
			epP	31	28.15	128km
			esP	31	44.99	
CP2	62.73	332	iPc	30	57.43	-1.0
MBC	62.78	353	ePc	30	56.10	-2.2
	0.8s	2.00nm			4.1mb	
SVW	64.24	331	iPc	31	06.48	-1.7
	0.6s	11.54nm			5.0mb	
			epP	31	37.40	127km
TTA	64.93	333	iPc	31	10.90	-1.7
	0.8s	6.23nm			4.6mb	
			epP	31	43.10	133km
			esP	31	58.29	
DAG	71.48	13	eP	31	49.00	-3.8X
	0.8s	3.73nm			4.2mb	
ADK	75.05	320	eP	32	12.26	-1.7
	0.8s	52.15nm			5.4mb	
CTA	124.63	256	e(PKP)	39	45.00	13.6X
STK	128.75	241	iPKPc	39	39.00	0.0
	1.0s	3.00nm				
MUN	149.45	232	ePKP	40	20.30	4.3X
	S.D. = 1.2	on 108 of 113 obs.				

& MAY 15 1993 04h 36m 38.39s
59.837 N 153.523 W
DEPTH = 133.9km
SOUTHERN ALASKA (2)
<AEIC>.

INW	0.30	40	eP	36	56.16	0.4
			S	37	10.62	
INE	0.32	46	eP	36	56.41	0.5
			eS	37	10.80	
PDB	0.34	262	eP	36	56.19	0.4
			S	37	10.08	
AUL	0.46	174	eP	36	57.16	-0.8
AUH	0.48	175	eP	36	57.46	-0.6
			eS	37	12.08	
AUE	0.49	171	iP	36	57.22	-0.8
			eS	37	11.98	
AUI	0.51	174	eP	36	57.47	-0.7
			eS	37	12.53	
RDW	0.74	29	eP	36	58.76	-1.2
REF	0.77	32	eP	36	59.40	-0.8
			eS	37	15.10	
MCNL	0.77	213	eP	36	58.84	-1.2
			eS	37	14.83	
NCT	0.79	22	eP	36	59.26	-1.0
			S	37	15.37	
DFR	0.87	29	eP	37	00.04	-0.8
			eS	37	16.70	
CDD	0.91	184	eP	37	00.19	-1.0
			eS	37	17.04	
CNPM	1.20	104	eP	37	02.45	-1.5
			eS	37	20.44	
BRLK	1.34	92	eP	37	03.86	-1.5
			eS	37	22.80	
SYI	1.36	154	eP	37	04.23	-1.3
			eS	37	24.27	
NKA	1.46	50	eP	37	07.36	0 8
CKL	1.48	23	iP	37	06.11	-1.0
			eS	37	28.19	
CKT	1.52	25	eP	37	06.29	-1.1
SPU	1.53	28	eP	37	06.31	-1.2
			eS	37	28.94	
BGL	1.54	21	eP	37	06.98	-0.7
CP2	1.57	23	eP	37	06.91	-1.2
CPAM	1.58	25	eP	37	07.22	-0.9
CRP	1.59	25	eP	37	06.41	-1 8
SVW	1.65	322	P	37	08.30	-0.5
SLKM	1.78	66	eP	37	08.70	-1.7
SEW	2.07	81	eP	37	12.17	-1.6
			eS	37	36.77	
SUA	2.13	39	eP	37	13.46	-1.3
			eS	37	40.08	
KDC	2.16	165	(P)	37	12.35	-2.6
MPA	2.18	71	eP	37	13.60	-1.6
SKT	2.36	23	eP	37	16.13	-1.4
PMS	2.41	52	P	37	16.30	-1.9
PTE	2.46	63	eP	37	16.72	-2.0
GHO	2.97	47	eP	37	22.63	-2.9
SML	3.22	50	eP	37	27.24	-1.4
HIN	3.56	78	eP	37	30.99	-2.2
SCM	3.63	54	eP	37	32.17	-2.0
VLZ	3.79	67	eP	37	34.78	-1.3
TRF	3.94	22	eP	37	36.13	-2.3
KLU	4.09	63	eP	37	37.32	-3.0
	40 obs. associated					

MAY 15, 1993 05h 23m 39.56± 0.23s
28.073 S ± 6.1km 176.637 W ± 6.0km
DEPTH = 33.3km (5 depth phases)
5.3mb (32 obs.) 5.3Msz (9 obs.)
KERMADEC ISLANDS REGION (177)
Mw 5.6 (HRV).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 33S, 52C
Centroid Location:
Origin Time 05:23:42.1 0.3
Lat 28.03S 0.05 Lon 176.14W 0.05
Dep 15.0 BDY Half-duration 1.5
Moment Tensor; Scale 10**17 Nm
Mrr= 1.53 0.06 Mtt= 0.15 0.07
Mff=-1.69 0.08 Mrt= 0.57 0.19
Mrf= 2.48 0.51 Mtf= 0.00 0.06
Principal Axes:

T	Val= 2.97	Plg=60	Azm=291
N	0.09	6	189
P	-3.05	29	96

Best Double Couple:Mo=3.0**10**17
NP1:Strike=168 Dip=17 Slip= 68
NP2: 11 74 97

RAO	1.63	223	iPd	24	09.00	2.7
			iS	24	32.00	
SVA	10.89	335	eP	26	18.90	2.8
OUZ	10.95	227	eP	26	15.70	-1.3
VUN	10.99	335	eP	26	18.80	1.3
URZ	11.43	206	eP	26	13.80	-9.6X
			eS	28	21.40	
SNZO	14.99	206	eP	27	12.00	1.4
			eS	29	43.00	
			eS	54	31.00	
THZ	16.11	209	eP	27	19.10	-6.0X
			eS	30	06.60	
KHZ	16.39	207	eP	27	17.70	-10.8X
			eS	30	13.00	
DZM	16.45	288	iPc	27	35.20	5.7X
			iS	30	51.90	
LTZ	17.21	209	eP	27	31.90	-7.1X
BKM	17.34	303	iPc	27	45.80	5.1X
ODZ	19.74	208	eP	28	05.10	-4.2X
BRS	27.05	264	iPc	29	22.50	1.6
ARMA	27.74	257	eP	29	27.20	-0.1
	0.9s	23.00nm			4.9mb	
CNB	29.71	247	iPd	29	45.30	0.4
	0.9s	29.00nm			5.0mb	
CAN	30.01	247	eP	29	47.10	-0.4
			i	29	59.70	49kmX
BWA	30.43	249	eP	29	48.50	-2.8X
TOO	33.02	244	iPd	30	14.10	0.2
	0.8s	43.00nm			5.4mb	
CTA	34.69	275	iPc	30	27.00	-1.5
	1.0s	20.00nm			5.0mb	
STK	36.22	254	iPc	30	40.90	-0.4
	1.0s	11.10nm			4.7mb	
			i	33	07.20	
ADE	38.43	248	e(P)	31	00.00	0.1
QIS	40.40	271	eP	31	17.20	0.8
ASPA	44.48	264	iPc	31	48.50	-1.2
	1.2s	59.00nm			5.3mb	
Z	22s	5.70um			5.4Msz	
			ePP	33	32.60	
			eS	38	17.20	
WB2	45.25	269	iPc	31	53.80	-2.1
	0.4s	36.90nm			5.6mb	
WRA	45.26	269	P	31	54.50	-1.4
	1.0s	12.20nm			4.8mb	
WRA	45.26	269	P	32	14.90	19.0X
	1.5s	3.30nm				
FORT	47.83	253	eP	32	12.00	-4.1X
WARB	50.12	258	eP	32	28.00	-5.8X
	0.9s	38.00nm			5.4mb	
SBA	50.44	185	ePc	32	38.20	2.7
CSY	57.75	207	eP	33	28.20	-1.0
	0.5s	35.70nm			5.7mb	
SPA	62.09	180	iPc	33	58.80	-0.5
	0.8s	24.58nm			5.4mb	
CTB	66.97	292	ePd	34	32.00	0.5
LEM	74.26	271	ePc	35	16.00	0.2
MAW	74.90	200	eP	35	18.50	0.1
	1.0s	50.00nm			5.5mb	
KAKJ	75.77	325	P	35	23.50	-0.2
CHJJ	76.25	324	P	35	26.10	-0.4
WKYJ	76.70	321	P	35	29.90	0.8
MAT	77.04	324	eP	35	30.00	-0.9
	1.0s	52.00nm			5.5mb	
Z	20s	1.06um			5.2Msz	
			eS	45	23.00	
MTMJ	77.28	324	P	35	30.90	-1.4
OFUJ	77.31	328	eP	35	32.00	-0.3
TKSJ	77.40	320	P	35	32.70	-0.2
YONJ	78.60	320	P	35	39.40	-0.1
ADK	79.61	360	(P)	35	46.65	2.1
NVL	81.26	183	eP	35	53.00	-0.1
	1.6s	48.00nm			5.3mb	
YSS	83.26	333	iPc+	36	04.00	0.2
	0.9s	50.00nm			5.6mb	
Z	18s	0.60um			5.0Msz	
N	18s	0.50um				
E	18s	0.40um				
			i	36	16.60	42km
SSE	83.50	310	Pd	36	05.50	0.1
	1.0s	32.00nm			5.4mb	
Z	20s	0.60um			5.0Msz	

15d 05h

		S	46 40.00		
ISA	83.81	44 P	36 07.78	0.8	
	1.5s	38.33nm		5.3mb	
CMB	84.24	41 eP	36 08.92	-0.1	
	1.0s	8.91nm		4.9mb	
GSC	84.61	45 eP	36 10.81	-0.2	
ORV	84.63	40 (P)	36 10.85	-0.1	
VLA	85.17	325 iP	36 22.00	8.5X	
	1.0s	50.00nm		5.7mb	
		i	36 31.00	28km	
		i	36 39.00		
BONR	85.41	42 eP	36 14.43	-0.8	
TPNV	86.01	44 eP	36 19.09	1.0	
	1.2s	26.99nm		5.4mb	
TNP	86.14	43 eP	36 19.10	0.3	
	1.0s	12.69nm		5.1mb	
KVN	86.25	42 eP	36 19.88	0.6	
TUC	86.73	51 eP	36 22.81	1.2	
	1.3s	21.48nm		5.2mb	
KDC	87.87	13 eP	36 26.79	0.5	
	1.0s	12.11nm		5.1mb	
ARUT	88.28	45 eP	36 29.75	0.7	
MDZ	88.52	127 eP	36 25.60	-4.8X	
BMW	88.53	34 eP	36 31.89	2.0	
LON	89.42	34 eP	36 34.82	0.7	
GMW	89.50	33 eP	36 35.34	0.9	
MSU	89.51	45 eP	36 36.08	1.1	
RMW	89.91	34 eP	36 37.09	0.6	
LTX	90.13	57 eP	36 37.15	-0.7	
RSO	90.36	12 eP	36 37.34	-1.0	
SLKM	90.87	13 eP	36 39.94	-0.6	
ALQ	91.19	51 ePd	36 43.46	0.7	
	1.8s	39.10nm		5.5mb	
CRP	91.22	12 eP	36 40.94	-1.3	
		e	36 53.30	40km	
NST	91.45	287 eP	36 45.00	1.0	
PMR	92.08	13 eP	36 45.42	-0.5	
	0.9s	13.71nm		5.4mb	
BJI	92 12	315 eP	36 47.00	0.4	
	1.2s	78.00nm		6.0mb	
Z	20s	0.90um		5.2Msz	
N	18s	0.97um			
		eSKS	47 20.00		
		eS	47 56.00		
		eSS	54 20.00		
TTA	92.17	9 eP	36 46.06	-0.4	
	1.3s	9.66nm		5.1mb	
BW06	93.64	43 (P)	36 51.89	-2.0	
KMI	93 85	296 Pc+	36 57.00	1.8	
	1.5s	80 00nm		5.9mb	
		pP	37 07.50	33km	
CHTO	93 94	289 eP	36 57.20	1.7	
	1.1s	21.50nm		5.5mb	
LCCM	94.09	39 eP	36 56.00	0 2	
FBA	95.35	12 eP	36 58.76	-2.2	
	1.0s	7 31nm		5.1mb	
ILT	95.69	359 eP	37 02.00	-0.4	
Z	18s	0.90um		5.3Msz	
N	18s	0.60um			
E	18s	0.30um			
PSSD	97.73	44 eP	37 12.34	-0.1	
	1.0s	13.35nm		5.4mb	
CNCB	97.83	114 P	37 15.00	1.0	
LPB	97.88	113 P	37 15.00	0.9	
ZOBO	98.00	113 P	37 21.00	6.2X	
		LR	09 46.00		
LZH	98.30	306 eP	37 16.50	1.3	
	1.6s	25.00nm		5.5mb	
Z	28s	0.84um		5.1MszX	
E	20s	1.35um			
		pP	37 24.00	23km	
		sP	37 28.00		
ZAK	105.20	319 ePdiff	37 56.00	10.4X	
GUN	108.65	292 PKP	42 00.00	-7.5X	
MBC	109.89	12 ePKP	42 07.00	-0.9	
	1.0s	1.00nm			
NRI	117.81	337 iPKPd	42 22.40	-0.8	
FRU	121.74	305 ePKP	42 31.00	-0.6	
	1.8s	30.00nm			
BUL	126.21	210 ePKP	42 41.10	0.0	
MTD	127.70	215 iPKPd	42 40.00	-3.9X	
		i	42 52.90		
SVE	130.82	322 ePKPd	42 48.90	0.4	
	2.5s	40.00nm			
		e	45 01.70		
ARU	132 01	322 ePKP	42 50.00	-0.8	
Z	20s	1.00um		5.5Msz	
N	18s	0 50um			
E	20s	1.00um			
		e	45 16.00		
MAIO	132.36	295 ePKP	42 53.00	0.8	
		e	46 22.00		
KAF	142.73	342 iPKP	43 04.80	-5.6X	
	0.4s	1.30nm			
GRO	142 83	306 ePKP	43 08.00	-3.2X	
MOS	143.05	328 ePKP	43 08.00	-3.1X	
PUL	143.36	337 (PKP)	43 08.00	-3.5X	
	1.6s	60.00nm			
		e	43 15.00		
OBN	143.89	328 iPKPd	43 10.00	-2.6	
	1.5s	120.00nm			
Z	20s	0.50um		5.3Msz	
N	20s	0.50um			
		i	43 22.00		
		e	46 36 00		
ERE	144.17	301 iPKP+	43 11.50	-2.2	
	2.5s	58.00nm			
OASM	144.29	276 ePKP	43 12.67	-1.6	
NUR	144.51	342 iPKP	43 10.60	-2.9X	
	0.5s	12.30nm			
PYA	144.55	307 iPKP	43 12.00	-2.2	
	1.0s	150.00nm			
		i	43 24.00		
KIV	144.83	307 iPKPc	43 13.40	-1.4	
	1.4s	86.00nm			
		e	46 33.30		
NB2	146.62	353 PKP	43 17.30	0.2	
	1.0s	74.00nm			
UPP	146.76	347 iPKP	43 16.90	-0.3	
SOC	147.01	308 ePKP	43 19.00	0.8	
	2.5s	200.00nm			
HFS	147.18	350 ePKP	43 16.80	-1.1	
	0.9s	77.40nm			
Z	19s	506.00um		8.3MszX	
		LR	39 38.00		
KONO	148.14	354 ePKP	43 22.00	2.5	
ANN	148.26	311 ePKP	43 23.00	2.9	
	1.2s	50.00nm			
MNK	148.69	332 ePKP	43 20.00	-0.5	
		e	46 50.00		
WAJH	150.44	274 ePKP	43 29.33	5.3X	
MUD	151.33	353 iPKPd	43 30.30	5.9X	
	0.8s	19.00nm			
AYN	151.35	279 ePKP	43 31.67	6.4X	
COP	151.65	349 ePKP	43 31.00	6.1X	
	0.8s	65.67nm			
BSD	151.72	346 iPKPc	43 32.10	7.1X	
	0.8s	42.00nm			
HRI	151.74	289 ePKP	43 32.40	6.4X	
KAS	151.87	306 ePKP	43 31.50	5.6X	
JVI	152.09	286 ePKP	43 33.10	6.6X	
HQL	152.21	280 ePKP	43 33.00	6.4X	
BCAO	152.41	214 iPKPd	43 27.00	-0.4	
	1.6s	234.00nm			
		ic	43 33.80		
		ic	43 45.00		
		ic	43 53.90		
KiS	152 51	320 ePKP	43 32.00	5.6X	
SAGI	152.62	282 ePKP	43 33.60	6.4X	
CSS	153.61	293 ePKP	43 40.20	11.8X	
OJC	154.59	335 ePKP	43 38.30	9.1X	
UZH	154.79	330 ePKP	43 29 30	-0.2	
	1 6s	70.00nm			
		e	43 38.50		
		i	43 54.30		
KSP	155.24	340 ePkP	43 39.70	9.6X	
SPC	155.24	333 ePKP	43 30.30	-0.1	
CLL	155 68	345 ePKP	43 30.00	-0.7	
		i	43 40.80		
		i	43 57.00		
BRG	155.86	343 ePKP	43 30.50	-0.4	
	2.0s	52 00nm			
		e	43 40.50		
WTS	155.97	355 ePKP	43 41.00	10.0X	
	0.9s	11 30nm			
		e	43 57.50		
PRU	156.51	342 ePKP	43 33.00	1.2	
		e	43 45 00		
		e	44 01.00		
MOX	156.60	347 ePKP	43 32.60	0.6	
Z	19s	0.50um		5.4Msz	
		e	44 00.20		
		e	44 16.90		
KIC	157.08	159 PKP	43 33 00	-0.6	
ENN	157.25	356 ePKP	43 46.00	13.3X	
		e	44 04.00		
TIC	157.25	158 PKP	43 33.50	-0.4	
GEC2	157.78	342 PKP	43 28.10	-5.5X	
	0.7s	0.49nm			
		e	43 32 90		
		e	43 37.90		
		e	43 41.40		
		e	43 43.70		
		e	43 48.50		
		e	43 51.80		
		e	44 06.80		
		e	44 09.00		
		e	44 16.20		
		e	44 21.60		
PTJ	159.60	334 ePKP	43 35.40	-0.3	
LJU	160.01	337 e(PKP)	43 36.00	0.0	
VOY	160.24	338 e(PKP)	43 35.50	-0.9	
		ePKPab	44 17.00		

S.D. = 1.2 on 101 of 140 obs.

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* MAY 15, 1993 05h 24m 06.73± 0.43s
7.293 N ± 8.3km 123.813 E ± 8.9km
DEPTH = 590.9 ± 5.2 km
4.6mb (13 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

CTB	0.39	104 ePd	25 18.00	0.3	
CGP	1.45	37 iPd	25 19.00	-0.8	
MAP	3.01	3 iPc	25 24.00	-1.7	
PLP	4.02	17 ePc	25 32.80	0.7	
PPR	5.60	297 ePc	25 46.00	1.5	
TSM	6.62	244 iPd	25 54.80	1.4	
KKM	7.65	261 ePc	26 02.00	-1.1	
	0.6s	121.90nm		5.1mb	
WB2	28.99	159 iPc	29 21.70	-0.2	
	0.3s	11.00nm		5.0mb	
ASPA	32.31	163 iPd	29 51.30	1.3	
	0.3s	6.90nm		4.8mb	
		eS	34 22.00		
BJI	33.32	349 eP	29 58.50	0.2	
	1.0s	13.00nm		4.5mb	
WARB	33.39	175 eP	29 57.80	-1.3	
	0.4s	5.00nm		4.5mb	
GUN	41.31	304 P	31 04.20	0.2	
PKI	41.57	304 P	31 06.00	-0.1	
KKN	41.76	304 P	31 07.40	0.0	
	0.8s	23.00nm		4.8mb	
DMN	41.83	304 P	31 08.00	-0.1	
GKN	42.36	304 P	31 12.20	0.1	
	0.9s	33.00nm		4.9mb	
GBA	45.98	282 P	31 40.00	0.0	
IMA	80.33	24 ePd	35 19.46	1.2	
SLKM	81.71	30 ePc	35 24.45	-0.7	
OBN	82.48	325 iPd	35 29.00	0.0	
	1.0s	35.00nm		4.8mb	
FBA	82.77	25 (P)	35 30.45	0.1	
	0.6s	2.25nm		3.9mb	
KAF	87.11	332 iP	35 51.10	-0.4	
	0.5s	5.40nm		4.5mb	
INK	87.93	21 eP	35 56.00	0.9	
NUR	88.20	331 eP	35 56.10	-0.4	
MBC	89.12	12 eP	36 02.50	2.0	
HFS	93.53	332 eP	36 19.70	-1.4	
	0.4s	0.60nm		4.1mb	
NB2	94.32	333 P	36 23.30	-1.5	
	0.9s	3.00nm		4.5mb	
YKA	97.44	24 eP	36 38.60	-0.2	
	1.0s	0.50nm		3.8mb	

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

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* MAY 15, 1993 05h 48m 19.05± 0.60s
28.570 S ±12.5km 176.059 W ±11.9km
DEPTH = 15.1km (6 depth phases)
4.9mb (11 obs.) 5.3Msz (1 obs.)
KERMADEC ISLANDS REGION (177)

RAO	1.77	247 eP	48 53.00	3.8X	
		iS	49 18.80		
URZ	11.22	209 eP	51 01.30	-0.4	
THZ	15.94	211 eP	52 03.70	-0.6	
KHZ	16.19	209 eP	52 07.40	0.1	
DZM	17.08	288 iPc	52 20.80	1.9	
BKM	18.04	304 iPc	52 30.50	-0.3	
BRS	27.51	265 iPc	54 08.50	1.5	
		i	54 11.80	12km	
CAN	30.30	248 eP	54 32.80	0.9	

TOO	33.26	244	eP	55	00.30	2.4
	0.8s		12.00nm			4.9mb
CTA	35.25	275	iPc	55	13.00	-2.1
STK	36.58	254	iPc	55	27.10	0.9
	0.8s		3.20nm			4.2mb
ASPA	44.94	264	iPd	56	34.00	-1.3
	0.7s		12.50nm			4.9mb
WB2	45.75	269	iPd	56	39.20	-2.6
	0.4s		16.00nm			5.3mb
WRA	45.76	269	P	56	39.50	-2.4
	0.7s		3.70nm			4.5mb
WARB	50.52	258	eP	57	13.50	-5.3X
MTN	51.42	276	eP	57	34.00	8.3X
CSY	57.54	207	iPc	58	13.30	3.5X
	0.5s		14.10nm			5.3mb
BONR	85.44	42	eP	00	54.62	-2.9
			e	01	01.38	21km
TUC	86.65	50	eP	01	02.21	-1.2
	0.9s		4.02nm			4.6mb
			e	01	07.85	18km
MSU	89.50	45	(P)	01	19.15	2.0
LTX	89.97	56	eP	01	23.49	4.1X
RMW	90.04	33	(P)	01	16.94	-2.3
			e	01	22.08	16km
SRU	90.89	45	eP	01	23.88	0.4
			e	01	26.84	9km
ALO	91.11	50	eP	01	28.20	3.6X
	1.0s		3.75nm			4.7mb
			pP	01	33.00	15km
SLKM	91.24	12	(P)	01	23.33	-1.1
PV09	91.40	46	eP	01	30.00	4.0X
CP2	91.58	11	eP	01	26.32	0.1
CRP	91 60	11	eP	01	26.44	0.2
8JI	92 83	315	eP	01	32.50	0.5
	1.4s		24.00nm			5.4mb
BW06	93.65	43	(P)	01	38.05	1.9
FBA	95.73	12	ePd	01	45.70	0.8
	1.0s		5.50nm			5.0mb
RSSD	97.73	44	eP	01	57.43	2.8X
	1.0s		4.18nm			5.0mb
KAF	143.35	343	ePKP	07	49.50	-4.2X
OBN	144.58	328	iPKPc	07	55.00	-1.0
	1.1s		23.00nm			
Z	18s		0.50um			5.3Msz
E	18s		0.40um			
			e	08	07.00	
			e	08	32.00	
NUR	145.14	342	iPKP	07	55.70	-1.1
NB2	147.17	353	PKP	08	02.30	2.1
	1.0s		23.90nm			
UPP	147.35	347	iPKP	08	01.90	1.5
HFS	147.75	351	ePKP	08	03.20	2.1
	1.0s		39.00nm			
KONO	148.69	354	ePKP	08	07.80	5.2X
BCAO	152.28	213	iPKPc	08	20.00	10.6X
	0.8s		18.00nm			
			id	08	31.10	
			ic	08	41.90	
8SD	152.32	346	iPKP	08	16.00	7.8X
	0.7s		11.00nm			
KSP	155.88	341	ePKP	08	24.20	11.0X
			ic	08	53.60	
CLL	156.28	346	ePKP	08	26.00	12.2X
			i	08	42.80	
BRG	156.48	344	ePKP	08	26.60	12.6X
			e	08	43.70	

S.D. = 1.7 on 29 of 44 obs.

% MAY 15, 1993 06h 27m 31.73± 2.58s
61.520 N ±13.3km 4.779 E ±22.1km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 2.1 (BER).

FOO	0.15	58	eP	27	35.22	0.1
			eS	27	38.67	
SUE	0.46	181	eP	27	41.43	0.3
			eS	27	49.96	
HYA	0.77	117	eP	27	46.73	0.1
			eS	28	00.28	
ASK	1.06	169	eP	27	51.65	0.0
			eSg	28	09.07	
EGD	1.27	170	eP	27	55.02	-0.3
			eSg	28	14.25	
NRA0	3.37	101	ePg	28	31.66	6.2X
			eLg	29	22.34	

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

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* MAY 15, 1993 06h 46m 51.92± 0.68s
6.645 N ± 7.0km 72.807 W ± 8.3km
DEPTH = 183.3 ± 9.0 km
3.9mb (2 obs.)
NORTHERN COLOMBIA (99)

FUQ	1.49	218	iPc	47	43.00	18.2X
FUQ	1.49	218	iPc	47	33.00	8.2X
BOG	2.37	212	iPc	47	35.00	1.0
			iS	48	05.50	
SDV	3.10	44	iPnc	47	42.90	0.3
			iSn	48	20.70	
TOV	4.32	43	ePnd	47	57.80	-0.1
			iPP	47	59.00	
			iSn	48	48.90	
CEOS	5.03	62	iPc	48	07.20	0.1
			iS	49	04.10	
OLLA	6.82	60	iPc	48	30 70	0.0
LLAV	7.05	57	iPc	48	34.00	0.3
GUAN	7.81	65	eP	48	43.60	-0.3
PCJ	11.82	339	Pd	49	34.85	-1.2
STH	12.02	341	Pd	49	37.66	-0.9
			S	51	35.91	
BBJ	12.45	340	Pd	49	44.06	-0.1
ZOBO	23.23	169	P	51	48.00	3.4X
LPB	23.49	169	eP	51	45.00	-2.0
CNCB	23.79	168	P	51	50.00	0.1
MSU	47.64	318	ePc	55	11.99	0.2
YKA	63.54	340	eP	57	03.80	-0.8
	0.7s		2.40nm			4.2mb
INK	73 30	340	eP	58	06.50	1.9
MBC	74.03	350	eP	58	10.00	1.3
	0.6s		1.00nm			3.7mb
OIS	145.69	243	ePKP	06	14.40	3.6X
WB2	150.51	241	iPKPc	06	25.50	7.1X
	0.5s		13.20nm			
WRA	150.52	241	PKP	06	26.50	8.1X
	0.5s		2.80nm			

S.D. = 1.1 on 16 of 22 obs.

% MAY 15, 1993 06h 47m 51.94± 0.86s
47.273 N ±11.0km 11.240 E ± 6.6km
DEPTH = 10.0km (geophysicist)
AUSTRIA (546)
ML 1.4 (VIE).

SOTA	0.06	202	iPgc	47	54.10	-0.2
			iSg	47	55.50	
MOTA	0.12	308	iPgc	47	55.10	0.1
			iSg	47	57.80	
WATA	0.24	75	iPgd	47	56.70	-0.4
			iSg	48	00.90	
WTTA	0.27	92	iPgc	47	57.50	-0.2
			iSg	48	01.80	
KBA	1.45	97	iPnc	48	19.10	0.7
			iPg	48	22.10	
			iSg	48	44.10	

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

? MAY 15, 1993 07h 03m 49.30± 2.87s
16.236 N ±26.7km 98.646 W ±10.0km
DEPTH = 10.0km (geophysicist)
NEAR COAST OF GUERRERO, MEXICO (58)

ACX	1.32	299	eP	04	13.50	-0.2
			eS	04	29.50	
OXX	2.03	65	eP	04	24.50	0.4
			iS	04	50.75	
III	2.27	340	eP	04	27.50	-0.1
			iS	04	55.00	
PPM	2.82	0	iP	04	36.50	0.8
			(S)	05	10.75	
IIA	2.90	360	eP	04	37.00	0.7
			iS	05	12.50	
IISM	2.99	24	iP	04	36.00	-1.6

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

MAY 15, 1993 07h 36m 26.14± 0.88s
45.729 N ± 9.0km 13.695 E ± 7.2km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.6 (VIE).

TRI	0.05	112	P	36	27.70	-0.6
			eSg	36	30.00	
VOY	0.33	25	iPgc	36	32.50	-0.6
			eSg	36	39.30	
			e	36	44.50	
CEY	0.51	89	ePgc	36	35.50	-1.0
			eSg	36	47.00	
RIY	0.62	128	iPg	36	37.70	-0.9
			iSg	36	49.00	
RBL	0.72	353	P	36	38.70	-1.6
			eSg	36	52.30	
FVI	1.07	324	P	36	46.80	0.5
VBY	1.12	101	ePn	36	49.00	1.9
			eSg	37	08.40	
KBA	1.37	350	i(Pn)	36	52.40	0.9
			iPg	36	53.40	
			i	37	13.80	
			iSg	37	15.60	
CTI	1.46	283	P	36	52.00	-0.7
			eSg	37	12.40	
PTJ	1.59	83	iPn	36	55.66	1.2
			eSn	37	20.40	
WTTA	2.09	318	iPnd	37	02.80	0.9
			iPg	37	04.50	
			i	37	05.40	
			iSg	37	33.80	

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

? MAY 15, 1993 07h 48m 55.42± 4.80s
60.388 N ±10.0km 4.949 E ±36.3km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 1.3 (BER).

ASK	0.15	52	iPc	48	59.07	0.1
EGD	0.18	130	eP	48	59.56	0.1
BER	0.19	91	eP	48	59.68	0.0
HYA	0.99	37	eP	49	14.24	0.1
			eSg	49	28.29	
NRA0	3.27	81	ePn	49	47.44	-0.3
			ePg	49	52.81	
			eLg	50	43.71	

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

? MAY 15, 1993 07h 50m 26.81± 1.12s
38.930 N ± 8.8km 26.980 E ±18 8km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
ML 3.1 (ISK).

IZM	0.58	157	iPg	50	38.50	0.0
			eSg	50	49.00	
EZN	1.03	331	iPn	50	46.30	0.1
KGT	1.54	9	ePn	50	54.00	-0.3
EDC	1.57	25	ePn	50	55.00	0.2

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

? MAY 15, 1993 08h 15m 54.27± 2.64s
16.290 N ±27.7km 98.684 W ±11.6km
DEPTH = 33.0km (normal)
NEAR COAST OF GUERRERO, MEXICO (58)

ACX	1.27	297	eP	16	16.00	0.3
			eS	16	32.50	
OXX	2.04	67	iP	16	27.00	-0.1
			iS	16	50.00	
III	2.21	340	iP	16	28.50	-1.0
			iS	16	56.00	
PPM	2.76	1	iP	16	38.50	0.9
			(S)	17	12.50	
IIA	2.84	0	(P)	16	42.00	3.7X
IISM	2.96	25	iP	16	36.50	-3.5X
CRX	3.24	343	(P)	16	53.50	9.2X

S.D. = 1.3 on 4 of 7 obs.

& MAY 15, 1993 08h 18m 34.09s
37.642 N 118.959 W
DEPTH = 7.9km
CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. MD 3.3 (GM). ML 3.2
(BRK), 3.1 (GS).

MEMM	0.03	33	iPd	18	35.74	0.0
CLKR	0.12	116	P	18	36.86	-0.2
BHPR	0.51	132	P	18	44.04	-0.3
BONR	0.61	59	iPc	18	45.95	-0.4
CMB	1.20	290	iPc	18	56.01	-0.6
			eS	19	10.90	
MRFM	1.37	296	P	18	59.41	-0.2
TNP	1.45	72	eP	19	01.04	0.3

15d 08h

KVN	1.56	25	eP	19 03.17	0.8
BRMM	1.69	242	P	19 05.44	1.3
AASM	1.87	296	P	19 07.40	0.8
WASM	1.93	170	P	19 09.31	1.6
PCRM	1.95	218	P	19 08.71	0.9
AFHM	2.01	315	P	19 10.67	1.9
ISA	2.01	169	iPc	19 10.63	1.8
			eS	19 36.16	
CSTL	2.02	271	P	19 10.73	2.0
WORM	2.03	163	P	19 11.03	2.0
HJSM	2.04	247	P	19 10.43	1.3
AFDM	2.05	310	P	19 10.52	1.2
AHRM	2.06	307	P	19 11.57	2.2
ARN	2.07	263	eP	19 10.32	0.7
			eS	19 38.56	
PMRM	2.12	209	P	19 11.40	1.1
PHAM	2.14	213	eP	19 10.77	0.1
BVYM	2.15	246	P	19 12.06	1.2
APRM	2.16	305	P	19 13.51	2.6
SAO	2.17	247	ePc	19 12.10	1.1
FRP	2.21	247	P	19 12.46	0.8
CVAL	2.22	270	P	19 14.02	2.2
PTRM	2.22	207	P	19 12.77	0.9
CBC	2.27	253	P	19 13.75	1.3
TPNV	2.27	107	ePn	19 13.12	0.5
AVRM	2.28	308	P	19 15.42	2.8
PJLM	2.35	229	P	19 14.89	1.3
PEV	2.39	255	P	19 15.71	1.6
ARVC	2.51	178	P	19 18.68	2.8
BPRM	2.54	242	P	19 16.97	0.7
BCH	2.61	201	eP	19 17.61	0.1
ORV	2.76	315	ePn	19 20.32	0.9
			eS	19 58.00	
ABL	2.79	184	eP	19 20.47	0.3
			eS	19 56.41	
GSC	2.91	143	ePn	19 22.62	1.0
NTYM	3.02	285	ePn	19 22.87	-0.2
			ePg	19 26.72	
SSK	3.57	163	eP	19 31.89	0.7
PEC	4.02	158	eP	19 38.10	0.8
LBFM	4.34	329	(P)	19 44.63	2 6
ARUT	4 38	86	ePn	19 42.61	0.0
			ePg	19 56.37	
PLM	4.61	158	eP	19 46.94	1.1
MSU	5.42	79	ePn	19 59.44	2.0
DUG	5.43	60	(Pn)	19 57.10	-0.4
	0 8s	8.44nm		4.4mb	X
			ePg	20 17.07	
HVU	6.31	47	(Pn)	20 10.70	0.8
			ePg	20 31.20	
	48 obs. ossocioted				

MAY 15, 1993 08h 26m 30.41± 0.65s
16.624 N ± 8.8km 98.538 W ± 5.3km
DEPTH = 32.7km (19 depth phases)
4.7mb (21 obs.)
NEAR COAST OF GUERRERO, MEXICO (58)

ACX	1.29	281	iP	26 50.50	-1.7
			iS	27 08.50	
OXX	1.80	75	iP	27 01.25	1 5
			iS	27 25.00	
III	1.96	333	iP	27 02.50	0.4
PPM	2.43	358	iP	27 09.50	0.3
			iS	27 39.00	
IIA	2.51	357	(P)	27 12.50	2.6
IISM	2.60	25	iP	27 11.50	0.5
UNM	2.76	347	iP	27 16.00	2.4
			(S)	27 42.00	
CRX	2.97	339	(P)	27 18.50	1.8
MRX	3.97	321	eP	27 31.50	1.0
CGX	5.59	304	(P)	27 53.00	-0.7
SCX	5.66	88	(P)	27 56.00	1.6
TPX	6.28	105	(P)	28 04.00	0.8
AGX	6.32	326	(P)	28 05.50	1.7
LTX	13.50	340	eP	29 40.72	-1.5
MEO	18.08	360	e(P)	30 38.50	-2.4
MIAR	18.39	13	eP	30 42.24	-2.4
	1.0s	62.07nm		4.7mb	
FNO	18.59	3	iPc	30 51.80	4.8X
OCO	18.85	3	iPc	30 51.10	0.9
TUC	19.16	327	eP	30 53.13	-0.9
	1.6s	72.67nm		4.7mb	
OLY	19.83	17	eP	30 58.70	-2.7
ACO	20.00	359	iPc	31 01.20	-2.0
GOGA	21.54	36	eP	31 17.35	-1.6
	1.0s	89.04nm		5.1mb	

			e	31 26.49	33km
GLA	22.00	321	eP	31 24.58	1.0
			i	31 33.46	32km
ELC	22.16	20	eP	31 22.62	-2.5
FVM	22.45	17	(P)	31 27.07	-0.9
	0.6s	22.70nm		4.8mb	
PRM	22.66	37	eP	31 29.18	-0.9
			e	31 38.68	35km
TKL	23.08	32	ePc	31 34.27	0.1
HBF	23.08	42	eP	31 35.48	1.3
			e	31 44.71	33km
SGS	23.17	41	eP	31 36.11	1.1
JSC	23.44	38	eP	31 37.41	-0.3
			e	31 46.43	32km
PLM	23.46	319	ePd	31 40.33	2.2
			e	31 50.23	37km
GOL	23.75	347	eP	31 41.11	0.1
	0.8s	42.57nm		5.0mb	
			e	31 48.68	27km
SRU	24.73	337	eP	31 50.50	0.1
GSC	24.74	322	eP	31 51.54	1.2
ARUT	24.84	331	eP	31 52.79	1.4
MSU	24.87	334	eP	31 52.89	1.1
EMUT	25.46	338	ePc	31 57.66	0.3
CEH	25.84	38	eP	31 59.78	-0.8
	1.2s	74.41nm		5.2mb	
NAV	25.89	34	eP	32 00.21	-1.0
ISA	25.98	321	eP	32 01.84	-0.2
	1.0s	10.52nm		4.4mb	
			e	32 12.31	39km
BLA	26.01	34	iPd	32 01.79	-0.5
	0.6s	9.88nm		4.6mb	
DAU	26.15	338	eP	32 03.76	-0.1
DUG	26.56	335	ePc	32 08.27	0.9
	0.7s	19.61nm		4.8mb	
			i	32 17.14	31km
BCH	26.68	318	eP	32 09.93	1.4
BONR	27 46	325	ePc	32 16.66	0.8
BW06	27.72	342	ePc	32 16.82	-1.2
	1.3s	31 10nm		4.8mb	
			e	32 26.76	36km
RSSD	27 80	351	eP	32 17.43	-1.4
	1.1s	7.95nm		4.3mb	
HVU	27.90	337	eP	32 19.80	0.2
LCCM	31.19	342	iPc	32 49.20	0.3
			e	32 58.60	33km
LRM	31.35	341	eP	32 51.20	0.7
			e	32 59.90	30km
ULM	33.61	3	eP	33 10.50	0.7
EEO	34.02	24	eP	33 15.00	1.6
GAC	34.81	29	eP	33 20.50	0.3
			pP	33 29.50	31km
DPW	35.11	337	eP	33 21.74	-1.1
LON	35.70	332	eP	33 27.74	-0.1
RMW	36.24	333	eP	33 32.11	-0.3
GMW	36.74	332	eP	33 36.15	-0.4
			e	33 45.06	30km
MCW	37.62	333	ePc	33 43.25	-0.7
LMN	40.48	37	eP	34 22.00	14.3X
JAQ	41.14	20	ePc	34 11.70	-1.3
			pP	34 21.50	33km
FCC	42.20	3	eP	34 24.00	2.4
			pP	34 34.00	34km
YKA	47.19	350	eP	34 59.20	-2.4
	0.7s	4.20nm		4.6mb	
FRB	51.40	17	eP	35 41 00	7.1X
INK	56.22	345	eP	36 09.50	0.1
	0.9s	4.00nm		4.4mb	
SLKM	57.23	333	eP	36 15.95	-0.9
			e	36 25.62	32km
RSO	58.35	332	eP	36 23.99	-0.8
			e	36 33.94	33km
MBC	60.62	354	ePc	36 39.20	-0.8
	0.9s	6.00nm		4.7mb	
TTA	60.75	334	iPc	36 39.36	-1.8
	0.9s	2.26nm		4.3mb	
			e	36 49.08	32km
GRR	82.73	42	eP	38 52.50	0.1
FLN	82.86	41	eP	38 53.60	0.6
LDF	83.14	41	eP	38 54 80	0.3
	0.8s	5.90nm		4.7mb	
NB2	84.80	27	P	39 04.00	1.3
	1.1s	6.50nm		4.7mb	
LSF	84.93	43	eP	39 04.70	1.1
TCF	85.36	43	eP	39 05.90	0.1
	1.0s	7.80nm		4.9mb	
MAF	85.62	43	eP	39 06.20	-0.8

SSF	85.94	42	eP	39 08.50	-0.1
	0.8s	3.75nm		4.7mb	
LOR	86.10	42	eP	39 09.40	0.0
	1.0s	14.00nm		5.1mb	
LBF	86.27	42	eP	39 09.90	-0.4
GEC2	91.50	38	P	39 34.80	-0.3
	0.8s	1.28nm		4.4mb	
			PcP	39 44.80	
HYB	146.05	5	ePKP	46 08.00	-0.7
GBA	149.70	8	PKP	46 19.00	4.6X
	S.D. = 1.3	on	77 of	81 obs.	

MAY 15, 1993 08h 51m 13.89± 0.67s
35.448 N ± 8.0km 141.178 E ± 7.1km
DEPTH = 33.0km (normal)
4.5mb (5 obs.)
NEAR EAST COAST OF HONSHU, JAPAN(228)

KAKJ	1.11	313	P	51 31.70	-1.5
			S	51 45.00	
CHJJ	1.87	289	P	51 44.10	-0.1
NIIJ	2.51	316	P	51 53.50	0.3
MAT	2.64	295	eP	51 55.00	-0.1
			eS	52 22.00	
IIDJ	2.67	272	P	51 55.10	-0.4
MTMJ	2.96	294	P	52 00.00	0.3
OFUJ	3.65	6	eP	52 09.50	0.2
			eS	52 51.40	
TSRJ	4.24	273	eP	52 19.60	1.8
WKYJ	4.75	257	P	52 26.60	1.5
AOMJ	5.14	353	eP	52 32.20	1.6
TKSJ	6.05	258	P	52 43.60	0.2
YONJ	6.31	270	P	52 48.10	1.0
MRRJ	6.97	359	eP	52 55.00	-1.2
HOOJ	7.12	13	eP	52 56.00	-2.3
			eS	54 13.50	
KUSJ	8.12	19	eP	53 08.60	-3.7X
			eS	54 34.80	
ASAJ	8.73	7	eP	53 20.40	-0.4
KUMJ	9.07	254	eP	53 26.80	1.3
BJI	20.27	291	eP	55 55.20	5.9X
GUN	47.14	277	P	59 42.00	-3.4X
PKI	47.66	277	P	59 48.00	-1.5
KKN	47.67	277	P	59 48.20	-1.3
DMN	47.89	277	P	59 49.40	-1.8
GKN	48.11	278	P	59 51.40	-1.4
CP2	48.52	36	(P)	59 57.87	2.3
FBA	50.55	31	eP	00 11.84	1.1
	0.8s	3.29nm		4.4mb	
WB2	55.47	188	eP	00 46.50	-1.2
	0.8s	4.90nm		4.6mb	
WRA	55.47	188	P	00 45.70	-2.0
	0.7s	3.40nm		4.5mb	
INK	55.89	27	eP	00 52.00	1.7
MBC	58.10	16	eP	01 06.00	0.1
ASPA	59.19	188	eP	01 22.10	8.0X
	0.7s	4.20nm		4.7mb	
YKA	65.28	30	eP	01 53.70	-0.5
	0.9s	1.00nm		3.9mb	
ZOBO	147.63	61	PKP	10 59.00	4.2X
LPB	147.82	62	PKP	10 55.00	0.0
CNCB	148.09	62	PKP	10 58.00	2.4
	S.D. = 1.4	on	29 of	34 obs.	

MAY 15, 1993 09h 16m 58.33± 0.28s
20.490 S ± 8.0km 177.634 W ± 7.7km
DEPTH = 404.4km (2 depth phases)
4.4mb (18 obs.)
FIJI ISLANDS REGION (181)

DZM	14.93	261	iPc	20 13.50	1.4
			iS	22 52.80	
URZ	18.28	193	eP	20 45.50	-0.5
WLZ	18.29	197	eP	20 46.90	0.8
NOZ	18.45	191	eP	20 47.00	-0.7
MNG	20.91	195	eP	21 09.80	-1.8
LTZ	23.79	199	eP	21 38.60	0.2
BRS	27.86	250	eP	22 16.50	1.6
ARMA	29.38	244	iPc	22 28.60	0.3
	0.5s	8.00nm		4.3mb	
CTA	33.83	264	iPd	23 07.00	0.6
	0.5s	15.85nm		4.6mb	
TOO	36.18	234	iPc	23 26.10	0.1
	0.4s	30.00nm		5.0mb	
STK	38.11	244	iPc	23 42.70	0.9
	0.5s	4.50nm		4.1mb	
QIS	39.96	262	eP	23 59.00	1.8

```
ASPA    44.86 257 iPd    24 35.70  -0.6
        0.9s    61 50nm           4.9mb
     Z  19s     0.20um            4.1Msz
                 eS     30 41.30
WB2     44.93 262 iPd    24 35.90  -1.0
        0.3s    71.00nm           5.5mb X
WRA     44.94 262 P      24 36.30  -0.7
        0.6s     9.20nm           4.3mb
MHA     45.68  29 eP     24 42.63   0.0
MTN     49.51 270 eP     25 10.50  -1.5
WARB    51.16 252 eP     25 20.40  -3.8X
        0.4s    10.00nm           4.5mb
MBL     5B.10 257 eP     26 12.50  -1.0
        0.4s    15.00nm           4.8mb
ARN     78.08  43 (P)    28 16.86   1.7
PEC     78.98  48 (P)    28 20.22   0.2
CMB     79.22  43 eP     28 21.14  -0.1
        0.9s     7.07nm           4.4mb
LBFM    80.31  39 eP     28 27.73   0.7
BONR    80.51  44 ePc    28 29.25   1.0
TNP     81.28  44 eP     28 33.00   0.8
        0.9s     7.13nm           4.4mb
TUC     82.70  52 iP     28 40.43   1.1
        0.8s     8 66nm           4.5mb
CP2     83.99  12 eP     28 43.92  -1.4
CRP     84.01  12 eP     28 43.50  -1.9
MSU     84.85  46 eP     28 51.36   1.2
TTA     84.88  10 eP     28 49.26  -0.2
        0.8s     1.66nm           3.9mb
BALM    86.07  16 (P)    28 53.81  -1.6
SRU     86.27  46 ePc    28 57.44   0.5
LTX     86.76  57 eP     28 59.25  -0.1
PV09    86.91  47 eP     29 00.50   0.3
ALO     87.13  51 eP     29 01.20   0.0
        1.0s     5.00nm           4.3mb
                 pP     30 36.00 412km
FBA     88.16  12 eP     29 04.10  -1.0
        0.7s     4.36nm           4.4mb
                 pP     30 35.90 396km
IMA     88.18  10 eP     29 05.00  -0.4
        1.0s     8.50nm           4.5mb
BW06    88.73  43 eP     29 07.70  -0.9
        0.6s     2.45nm           4.2mb
LCCM    88.84  40 eP     29 09.40   0.5
RSSD    92.91  44 eP     29 27.78   0.0
        0.8s     5.34nm           4.6mb
YKA     96.36  25 eP     29 41.90  -0.8
        1.2s     0.80nm           3.8mb
HFS    139.58 351 ePKP   35 29.50 -10.2X
        0.3s     1.10nm
HRI    147.77 300 ePKP   35 58.70   4.1X
CLL    148.13 347 ePKP   35 58.00   3.6X
BRG    148.33 346 e(PKP) 35 59.00   4.3X
DSI    148.46 297 ePKP   36 00.20   4.6X
PRU    149.02 345 PKPd   36 00.00   4.2X
        0.8s     7 20nm
MBH    149.23 294 ePKP   36 02.20   5.3X
GRF    150.02 348 ePKP   36 05.00   7.6X
KHC    150.05 345 iPKPc  36 02.50   5.0X
        1.0s     1 80nm
                 e      36 10.80
GEC2   150.28 345 PKP    36 03.00   5.1X
        0.6s     2 46nm
                 e      36 11.20
                 e      37 40.20
                 e      37 44.50
DOU    150.40 357 PKP    36 04.20   6.3X
FLN    151.70   4 ePKP   36 06.30   6.4X
        0.8s    14.25nm
LDF    151.89   4 ePKP   36 06.60   6.5X
        0.5s     3.00nm
GRR    152.05   5 ePKP   36 07.20   6.8X
        0.6s     5.75nm
LPF    152.39   5 ePKP   36 08.00   7.2X
        0.5s     5.45nm
BCAO   157.59 227 ePKPc  36 09.20   0.4
        1.0s    10.00nm
                 ic     36 44.00
     S.D. = 1.0  on  41 of  57 obs.
-------------------------------------
%  MAY  15, 1993  10h 10m 36.43± 0.55s
   26.790 S ± 4.9km   26.718 E ± 5.2km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA          (584)
     ML 2.8 (PRE).

BFS     0.12 151 eP     10 39.40   0.3
                 S      10 41.00
PRY     0.69 102 eP     10 50.20   0.0
KSR     0.93  10 eP     10 54.90   0.0
                 S      11 07.00
SWZ     1.30 252 eP     11 01.44   0.3
                 S      11 19.00
SEK     1.73 152 iPc    11 07.70   0.3
                 S      11 29.00
SLR     1.75  54 iPc    11 07.90   0.1
                 S      11 29.90
BLF     2.36 191 eP     11 16.60   0.0
                 S      11 44.00
BFT     3.18  71 eP     11 28.00  -0.3
                 S      12 07.00
FRS     3.20 202 eP     11 27.50  -0.8
                 S      12 04.50
     S.D. = 0.4  on   9 of   9 obs.
-------------------------------------
*  MAY  15, 1993  10h 37m 21.77± 1.05s
   50.347 N ±15.8km   18.872 E ± 6.2km
   DEPTH =  10.0km  (geophysicist)
 POLAND                            (548)
     ML 3.4 (WAR).

RAC     0.51 239 iP     37 32.40   0.3
                 eS     37 40.00
OJC     0.61 102 iPgd   37 33.80  -0.2
                 iSg    37 42.20
SPC     1.46 142 iPn    37 48.70   0.3
                 i(Sn)  38 07.40
                 Lg     38 11.00
KSP     1.72 288 ePn    37 52.80   0.9
        0.5s    66.00nm
                 iPg    37 55.10
                 iS     38 19.00
ZST     2.45 209 eP     38 11.00   8.7X
VKA     2.67 220 iPgc   38 14.10   8.5X
                 i(Sg)  38 48.20
PRU     2.81 264 ePn    38 06.00  -1.5
                 e      38 12.00
PRU     2.81 264 Pg     38 14.40   6.9X
                 Sg     38 50.70
BRG     3.18 281 iPg    38 20.30   7.5X
                 iSg    39 05.20
KHC     3.64 253 ePn    38 20.00   0.6
        0.5s    11.70nm
                 Pg     38 30.50
                 eSg    39 15.00
GEC2    3 68 248 Pn     38 19.60  -0.5
                 Pg     38 29.20
                 Sg     39 15.40
CLL     3.84 287 ePg    38 35.00  12.8X
                 eSg    39 31.00
WET     4.07 255 iPnc   38 39.30  13.9X
KBA     4.91 230 eP     38 53.00  15.5X
                 e(Sg)  39 58.00
GRF     4.98 265 ePg    38 57.00  18.7X
                 eSg    39 44.50
     S.D. = 1.0  on   7 of  15 obs.
-------------------------------------
%  MAY  15, 1993  10h 54m 34.38± 2.64s
   41.132 N ±17.5km   23.591 E ±14.0km
   DEPTH =   5.0km  (geophysicist)
 GREECE-BULGARIA BORDER REGION     (363)

SRS     0.01 177 iPg    54 35.08  -0.4
                 eSg    54 35.80
SOH     0.36 210 ePg    54 41.60   0.0
                 eSg    54 46.78
KNT     0.52 274 iPg    54 45.00   0.1
                 eSg    54 52.76
OUR     0.85 159 ePg    54 51.42   0.2
                 iSg    55 04.10
GRG     0.92 259 ePg    54 52.24  -0.2
PAIG    1.21 177 iPb    54 57.46   0.2
     S.D. = 0.3  on   6 of   6 obs.
-------------------------------------
?  MAY  15, 1993  11h 23m 49.42± 1.26s
   27.709 S ±18.1km  176.946 W ±26.5km
   DEPTH =  33.0km  (normal)
   4.5mb (  2 obs.)
 KERMADEC ISLANDS REGION           (177)

RAO     1.76 209 eP     24 18.00   0.0
                 S      24 42.50
ASPA   44.25 264 eP     31 58.40   0.7
        0.9s     5.70nm           4.4mb

WB2    44.98 269 iPd    32 03.00  -0.7
        0.5s     3.90nm           4.6mb
NB2   146.22 353 PKP    43 26.40   0.0
        1.1s     5.60nm
HFS   146.78 350 ePKP   43 27.20   0.0
        0.4s     1.20nm
BCAO  152.55 215 iPKPd  43 55.00  17.5X
        0.9s     9.00nm
                 ic     44 05.00
     S.D. = 0.7  on   5 of   6 obs.
-------------------------------------
?  MAY  15, 1993  11h 37m 08.90± 2.24s
   4.071 S ±25.7km  134.923 E ±28.7km
   DEPTH =  33.0km  (normal)
   4.5mb (  1 obs.)
 IRIAN JAYA REGION, INDONESIA      (196)

MTN     9.49 203 eP     39 28.00   1.6
                 eS     41 14.00
WB2    15.79 182 eP     40 49.00  -1.5
                 eS     43 35.60
QIS    17.01 165 eP     41 09.20   3.2X
CTA    19.38 146 eP     41 36.00   1.0
ASPA   19.51 183 eP     41 36.20  -0.3
        0.7s    20.80nm           4.5mb
                 eS     45 02.40
WARB   23.38 199 eP     42 15.00  -0.6
CNCB  149.30 133 ePKP   56 53.00  -0.1
ZOBO  149.54 132 PKP    56 56.80   3.3X
     S.D. = 1.4  on   6 of   8 obs.
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&  MAY  15, 1993  11h 38m 41.28s
   59.877 N        153.190 W
   DEPTH = 125.4km
   3.2mb (  2 obs.)
 SOUTHERN ALASKA                   (  2)
     <AEIC>.

INW     0.19   9 ePc    38 58.11   0.8
                 eS     39 11.50
INE     0.20  19 ePc    38 58.02   0.6
                 eS     39 11.93
AUL     0.51 194 ePd    38 59.42  -0.7
                 eS     39 13.80
PDB     0.51 260 ePd    38 59.25  -0.9
                 eS     39 13.41
AUE     0.53 190 iPd    38 59.37  -0.8
                 eS     39 12.83
AUH     0.53 194 iPd    38 59.61  -0.7
AUI     0.56 193 iPd    38 59.55  -0.9
                 eS     39 13.25
RSO     0.63  20 ePc    39 00.02  -1.1
                 eS     39 14.44
RDW     0.64  17 iPc    39 00.28  -0.9
                 eS     39 14.78
NCT     0.70  11 iPc    39 00.77  -0.8
                 iS     39 15.76
DFR     0.76  19 ePc    39 01.13  -0.9
                 eS     39 17.00
XLV     0.86 119 eP     39 01.85  -0.9
MCNL    0.91 221 iPd    39 02.15  -1.1
                 eS     39 18.16
CDD     0.98 194 iPd    39 02.77  -1.1
                 eS     39 19.21
CNPM    1.05 109 iPc    39 03.55  -1.1
                 eS     39 20.28
BRLK    1.17  95 ePc    39 04.81  -1.0
                 eS     39 22.52
NKA     1.30  47 iPc    39 08.02   0.9
SYI     1.34 162 eP     39 06.35  -1.2
                 eS     39 26.00
CKL     1.39  17 iPd    39 07.56  -0.7
                 eS     39 27.51
CKT     1.41  20 iPd    39 07.65  -0.9
                 eS     39 28.32
SPU     1.42  23 iPd    39 07.68  -0.9
CKN     1.44  20 iPd    39 08.18  -0.6
BGL     1.45  15 iPd    39 08.41  -0.5
CP2     1.47  18 iPd    39 08.48  -0.8
                 eS     39 29.28
CPAM    1.48  20 iPd    39 08.61  -0.7
CRP     1.49  20 iPd    39 08.19  -1.2
                 eS     39 24.71
SLKM    1.61  66 ePc    39 09.20  -1.6
SVW     1.72 317 iPd    39 10.49  -1.6
SEW     1.89  81 ePc    39 12.46  -1.6
SUA     2.00  36 ePd    39 14.59  -0.9
```

15d 11h

		eS	39 40.37		
MPA	2.01 71	ePc	39 14.32	-1 2	
KDC	2.17 170	iPd	39 14.70	-2 8	
		eS	39 40.97		
PMS	2.26 51	P	39 17.20	-1.5	
SKT	2.26 20	ePd	39 17.43	-1.3	
		eS	39 45.74		
PTE	2.29 63	eP	39 17.64	-1.5	
PWA	2.41 41	P	39 18.50	-2.1	
PLRM	2.63 47	eP	39 21.79	-1.7	
PMR	2.63 47	eP	39 20.60	-2.9	
		eS	39 51.39		
GHO	2.82 46	eP	39 23.94	-2.2	
SML	3.07 49	iPd	39 26.70	-2.6	
TTA	3.35 337	iPd	39 31.00	-2.1	
HIN	3.39 78	eP	39 31.21	-2.3	
SCM	3.48 53	ePc	39 32.38	-2.4	
MID	3.51 94	P	39 33.70	-1.4	
HUR	3.55 27	eP	39 34.31	-1.4	
VLZ	3.62 67	eP	39 35.08	-1.5	
		eS	40 13.93		
CVA	3.77 77	eP	39 36.32	-2.3	
TRF	3.84 20	ePd	39 37.78	-2.1	
KLU	3.93 62	eP	39 38.07	-2 8	
SGAM	4.04 78	eP	39 39.68	-2.6	
RND	4.10 28	eP	39 41.01	-2.2	
MCK	4.36 26	eP	39 45.12	-1.6	
KAIM	4.42 86	eP	39 44.13	-3.3	
SDG	4.55 51	eP	39 47.98	-1.3	
PAX	4.83 47	eP	39 50.78	-2.4	
GLB	4.87 67	eP	39 51.82	-1 8	
CROM	5.07 76	eP	39 54.45	-2.0	
NEA	5.09 20	eP	39 53.81	-2.7	
WRH	5.19 25	eP	39 54.98	-2.9	
SNH	5.20 82	eP	39 56.66	-1.4	
TGL	5.23 76	eP	39 56.38	-2.1	
MLY	5.30 11	eP	39 57.28	-2.1	
HDA	5.40 30	eP	39 57.89	-2.9	
CCB	5.41 25	eP	39 57.84	-2.9	
BALM	5.49 73	eP	40 00.43	-1.7	
MDM	5.60 22	eP	40 00.77	-2.6	
FBA	5.63 24	eP	40 00.61	-3.2	
YAH	5.74 80	eP	40 03.91	-1.7	
GLM	5.79 25	eP	40 03.14	-3.0	
CTGM	5.97 74	eP	40 07.19	-1 6	
IMA	6.22 358	(P)	40 09.00	-3.1	
YKA	18.59 65	eP	42 47.90	-3.1	
	0.4s	0.50nm		3.2mb	
MBC	20.17 23	eP	43 08.50	1 3	
	0.8s	1.00nm		3.2mb	
	73 obs. associated				

? MAY 15, 1993 13h 00m 29.26± 1.42s
16.831 N ±16.2km 99.577 W ±10.2km
DEPTH = 33.0km (normal)
NEAR COAST OF GUERRERO, MEXICO (58)

ACX	0.27 278	iP	00 36.75	0.1	
		iS	00 41.75		
III	1.54 4	iP	00 54.50	-0.4	
		iS	01 13.00		
PPM	2.40 22	eP	01 08.00	0.4	
		(S)	01 39.50		
IIA	2.47 21	(P)	01 11.00	3.0X	
UNM	2.51 8	(P)	01 13.00	4.0X	
OXX	2.74 84	eP	01 12.00	-0.1	
IISM	3.00 44	(P)	01 20.00	4.5X	
S.D. = 0.6	on 4 of 7 obs.				

? MAY 15, 1993 13h 04m 02.62± 1.75s
47.369 N ±20.7km 11.421 E ± 5.8km
DEPTH = 5.0km (geophysicist)
AUSTRIA (546)
ML 1.6 (VIE).

WATA	0.11 107	iPgc	04 05.10	0.0	
		iSg	04 06.90		
WTTA	0.1B 125	iPgd	04 06.40	0.0	
		iSg	04 09.00		
SOTA	0.21 224	iPgc	04 06.90	0.0	
		iSg	04 10.20		
MOTA	0.22 264	iPgc	04 07.10	0.0	
		iSg	04 11.10		
S.D. = 0.0	on 4 of 4 obs.				

MAY 15, 1993 14h 37m 14.20± 0.39s
3.181 S ± 5.7km 127.715 E ±10.1km
DEPTH = 27.3km (2 depth phases)
5.1mb (9 obs.)
SERAM, INDONESIA (272)

MTN	10.18 161	eP	39 42.00	0.3	
CTB	10.89 341	eP	39 51.00	-0.5	
WB2	17.88 159	iPd	41 22.50	-0.2	
	0.2s	24.20nm		5.0mb	
		i	44 59.20		
PGP	17.88 338	eP	41 23.00	0.2	
MBL	19.45 203	eP	41 41.00	-0.8	
LEM	20.34 259	iPd	41 52.50	1.0	
QIS	20.80 147	eP	41 57.00	1.0	
ASPA	21.23 164	iPd	42 00.20	-0.2	
	0.7s	27.00nm		4.8mb	
		iS	45 53.80		
WARB	22.89 182	eP	42 16.00	-1.0	
MEEK	24.90 200	eP	42 36.00	-0.4	
STK	31.39 157	eP	43 34.20	-1.0	
	0.6s	2.70nm		4.3mb	
CHTO	35.77 309	eP	44 14.60	1.4	
CAN	37.58 151	eP	44 31.80	3.6X	
TOO	37.91 157	eP	44 32.70	1.7	
LZH	44.99 332	Pd	45 30.00	0.7	
	1.5s	40.00nm		5.1mb	
	Z 22s	0.25um		4.1Msz	
		pP	45 37.50	25km	
GUN	50.75 310	P	46 14.20	-0.4	
	0.5s	25.00nm		5.4mb	
PKI	50.94 310	P	46 15.60	-0.4	
KKN	51.15 310	P	46 17.00	-0.4	
	0.6s	18.00nm		5.2mb	
DMN	51.19 310	P	46 17.60	-0.2	
GKN	51.75 310	P	46 21.60	-0.3	
	0.7s	17.00nm		5.1mb	
HYB	52.63 295	eP	46 28.50	0.0	
YAK	65.03 1	iPd	47 52.50	-1.4	
	0.9s	64.00nm		5.7mb	
IMA	88.27 24	eP	50 04.60	0.3	
	1.0s	6.00nm		4.9mb	
		pP	50 14.10	30km	
S.D. = 0.8	on 22 of 23 obs.				

% MAY 15, 1993 14h 53m 17.48± 0.86s
39.599 N ± 5.8km 29.952 E ±14.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

ALT	0.56 167	ePg	53 29.10	0.2	
		eSg	53 36.00		
EYL	0.98 9	ePn	53 36.20	0.1	
YLV	1.06 335	ePn	53 37.20	-0.4	
KHL	1.32 195	ePn	53 41.50	-0.4	
KCT	1.39 298	iPn	53 43.30	0.4	
S.D. = 0.5	on 5 of 5 obs.				

• MAY 15, 1993 15h 34m 47.43± 0.37s
31.882 S ± 6.8km 178.884 W ±10.0km
DEPTH = 47 2km (4 depth phases)
5.2mb (13 obs.)
KERMADEC ISLANDS REGION (177)
Mw 5.2 (HRV).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 26S, 41C
Centroid Location:
Origin Time 15:34:53.3 0.5
Lat 31.51S 0.06 Lon 178.35W 0.04
Dep 54.7 3.8 Half-duration 1.0
Moment Tensor; Scale 10**16 Nm
Mrr= 5.28 0.23 Mtt= 1.49 0.43
Mff=-6.76 0.38 Mrt= 1.35 0.42
Mrf= 3.23 0.41 Mtf=-0.43 0.29
Principal Axes:
T Val= 6.39 Plg=71 Azm=317
N 1.25 12 188
P -7.64 14 95
Best Double Couple:Mo=7.0*10**16
NP1:Strike=168 Dip=32 Slip= 67
NP2: 15 61 104

RAO	2.75 18	eP	35 26.00	-4.1X	
		iS	35 53.50		
HBZ	6.16 201	eP	36 19.70	1.6	
PUZ	6.61 200	eP	36 24.80	0.4	
		eS	37 43.20		
OUZ	7.10 240	P	36 40.30	8.9X	
URZ	7.16 206	eP	36 33.10	1.0	
		eS	37 56.90		
NOZ	7.18 200	eP	36 32.60	0.2	
MOH	7.92 203	eP	36 43.10	0.3	
TTH	8.40 203	eP	36 51.20	1.9	
WAHZ	8.70 205	eP	36 52.20	-1.4	
TEHZ	8.81 202	eP	36 52.70	-2.3	
MNG	9.83 206	eP	37 07.40	-1.7	
		eS	38 55.80		
KIW	10.26 207	eP	37 12.60	-2.3	
MTW	10.30 204	eP	37 11.20	-4.2X	
CAW	10.41 206	eP	37 12.80	-4.2X	
DIW	10.62 211	eP	37 19.30	-0.5	
MRW	10.66 207	eP	37 18.10	-2.2	
TCW	10.81 209	eP	37 18.70	-3.7X	
KHZ	12.12 208	eP	37 36.30	-3.7X	
		eS	39 47.40		
LTZ	12.95 210	eP	37 47.80	-3.3X	
DZM	16.31 303	iPc	38 40.10	5.3X	
BRS	25.00 273	eP	40 14.00	5.6X	
ARMA	25.25 266	eP	40 18.00	7.2X	
	0.4s	6.00nm		4.5mb	
TOO	29.70 249	eP	40 56.00	4.8X	
	0.4s	8.00nm		4.8mb	
CTA	33.33 282	iPc	41 26.00	2.9X	
	0.5s	49.30nm		5.6mb	
		epP	41 38.00	45km	
STK	33.43 259	eP	41 28.00	4.1X	
	0.4s	14.10nm		5.2mb	
QIS	38.70 277	iPd	42 14.10	5.5X	
ASPA	42.30 269	iPc	42 40.00	1.7	
	0.5s	71.80nm		5.7mb	
		eS	48 57.40		
WB2	43.41 274	iPd	42 48.70	1.3	
	0.4s	293.10nm		6.4mb X	
WRA	43.42 274	P	42 49.30	1.9	
	0.5s	59.20nm		5.6mb	
FORT	44.95 257	eP	43 01.00	1.3	
WARB	47.56 262	eP	43 18.30	-2.1	
	0.4s	7.00nm		5.0mb	
COOL	50.62 254	eP	43 44.20	0.4	
KLB	53.16 252	eP	44 02.50	-0.4	
CSY	53.48 208	eP	44 07.00	2.3	
	0.5s	21.50nm		5.4mb	
MEEK	54.13 258	eP	44 10.00	-0.1	
MUN	54.29 251	eP	44 11.00	-0.2	
MBL	55.24 265	eP	44 18.00	-0.3	
MRWA	55.38 255	eP	44 19.00	-0.2	
SPA	58.29 180	iPc	44 41.70	2.1	
	0.7s	21.48nm		5.4mb	
NVL	77.36 184	eP	46 40.00	1.7	
	1.0s	23.00nm		5.2mb	
		e	46 59.00	70kmX	
ISA	87.88 45	eP	47 32.73	-0.4	
	1.1s	16.81nm		5.2mb	
		pP	47 46.70	47km	
CMB	88.37 42	ePc	47 34.59	-0.8	
	0.9s	5.99nm		4.9mb	
		pP	47 48.89	49km	
GSC	88.66 46	ePc	47 36.85	-0.1	
BONR	89.52 44	ePc	47 40.66	-0.6	
		pP	47 54.96	48km	
TNP	90.24 44	ePc	47 43.80	-0.6	
	0.9s	8.35nm		5.1mb	
TUC	90.62 52	ePc	47 46.73	0.6	
MSU	93.56 46	eP	48 00.12	0.4	
ZOBO	98.24 115	(P)	48 24.00	2.0	
		LR	21 00.00		
YKA	107.10 26	ePKP	53 07.20	-1.8	
	0.5s	0.40nm			
GBA	108.57 275	Pdiff	49 18.00	10.6X	
MBC	114.02 13	ePKP	53 20.50	-1.4	
	1.0s	1.00nm			
BUL	121.94 211	iPKPd	53 38.90	0.2	
	0.9s	10.50nm			
MTD	123.48 216	iPKPd	53 37.20	-4.5X	
KAF	145.67 339	iPKP	54 19.40	-2.0	
	0.5s	16.80nm			
OBN	145.92 323	iPKPd	54 21.80	-0.2	
	1.5s	105.00nm			
		i	54 43.00		
		e	55 00.00		
		e	55 16.00		
NUR	147.42 338	iPKP	54 25.00	0.7	
	0.3s	9.00nm			
BCAO	148.18 214	iPKPc	54 26.90	-0.1	

	0.2s	76.00nm				
		ic	54	30.30		
		ic	54	50.60		
UPP	149.93	343 iPKP	54	31.00	2.8X	
		i	54	40.10		
NB2	150.09	350 PKP	54	32.20	3.7X	
	0.5s	4.30nm				
HFS	150.53	347 ePKP	54	32.10	3.0X	
	0.4s	6.30nm				
CSS	153.00	285 ePKP	54	41.00	7.4X	
LIC	153.84	166 PKP	54	36.00	0.7	
KIC	154.03	167 PKP	54	36.00	0.4	
TIC	154.25	166 PKP	54	36.70	0.8	
SPC	157.52	326 ePKP	54	39.70	0.3	
KSP	157.97	334 ePKP	54	39.00	-0.6	
ZST	159.69	328 ePKP	54	40.50	-1.1	
GEC2	160.58	334 PKP	54	41.60	-1.0	
	0.9s	0.76nm				
		e	54	56.20		

S.D. = 1.3 on 48 of 68 obs.

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* MAY 15, 1993 15h 44m 09.44± 0.79s
37 388 N ±17.8km 71.286 E ±20.7km
DEPTH = 33.0km (normal)
4.5mb (8 obs.)
AFGHANISTAN-TAJIKISTAN BORD REG.(717)

MAIO	9.52	267 ePn	46	44.00	16.7X	
		eSn	48	05.00		
NDI	10.00	148 iPc	46	34.00	0.1	
GKN	14.61	126 P	47	35.60	-0 2	
	0.5s	27.00nm			5.0mb	
KKN	15.17	125 P	47	42.40	-0.8	
	0.6s	27.00nm			4.7mb	
DMN	15.18	126 P	47	44.00	0.7	
	0.8s	40.00nm			4.7mb	
PKI	15.41	125 P	47	46.60	0.3	
	0.8s	46.00nm			4.8mb	
GUN	15.49	123 P	47	47.40	0.0	
	0 5s	12.00nm			4.4mb	
HFS	42.51	321 eP	52	03.00	0.0	
	0 4s	2.30nm			4.2mb	
NB2	43.81	322 P	52	13.80	0.2	
	0.5s	2.10nm			4.2mb	
MBC	66.44	3 eP	54	57.50	0.5	
INK	72.99	9 eP	55	38.00	0.9	
YKA	80.35	3 eP	56	16.70	-1.6	
	0.7s	0.50nm			3.6mb	

S.D. = 0.8 on 11 of 12 obs.

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* MAY 15, 1993 16h 24m 35.25± 1.16s
38 080 N ±11.1km 21.068 E ± 8.8km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 3.2 (ATH).

VLS	0.39	285 ePg	24	43.00	-0.2	
		eSg	24	51.00		
AGG	1.37	46 ePb	25	00.00	-0.3	
		eSb	25	24.28		
IGT	1.56	339 ePn	25	06.53	3.5X	
		eSn	25	33.56		
KEK	1.91	329 ePg	25	14.50	6.4X	
VLI	2.02	132 ePn	25	10.00	0.3	
KZN	2.29	14 ePn	25	14.50	0.8	
LIT	2.30	28 ePn	25	16.16	2.3	
		eSn	25	48.60		
PAIG	2.75	47 ePn	25	18.72	-1.4	
SOH	3.26	32 ePn	25	26.92	-0.5	
VAY	3.44	19 ePn	25	29.00	-0.9	

S.D. = 1.4 on 8 of 10 obs.

% MAY 15, 1993 16h 37m 19.98± 1.10s
18.095 N ±11.7km 98.510 W ± 9.7km
DEPTH = 33.0km (normal)
CENTRAL MEXICO (523)

III	0.95	287 iP	37	38.00	0.8	
		iS	37	50.75		
PPM	0.97	353 iP	37	37.50	-0.3	
		iS	37	49.50		
IIA	1.06	352 iP	37	38.50	0.0	
		iS	37	52.00		
UNM	1.39	333 eP	37	42.50	-0.9	
		iS	37	58.50		
IISM	1.39	50 iP	37	44.25	0.9	
		iS	38	01.00		
OXX	1.98	120 eP	37	51.50	-0.5	

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

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* MAY 15, 1993 16h 55m 53.81± 1.03s
34.846 S ±11.2km 70.842 W ± 7 6km
DEPTH = 112.8 ± 5.7 km
3.9mb (2 obs.)
CHILE-ARGENTINA BORDER REGION (127)
MD 4.4 (SAN).

CHCH	0.92	10 iP	56	14.40	-0.4	
LNV	1.01	332 iP	56	14.67	-0.9	
TACH	1.19	356 iP	56	17.22	-0.4	
PCH	1.25	13 iP	56	18.56	0.2	
		iS	56	36.67		
SAN	1.40	6 iP	56	19.88	-0.1	
		iS	56	38.47		
LCCH	1.49	336 iP	56	20.51	-0.6	
FCH	1.58	17 iP	56	22.75	0.2	
		iS	56	44.11		
PEL	1.70	4 iP	56	23.99	0.3	
		iS	56	46.09		
ROCH	1.87	356 iP	56	25.94	-0.1	
RFA	1.96	88 iPd	56	27.30	0.4	
		(S)	56	49.70		
JACH	2.17	6 iP	56	29.62	-0.1	
		iS	56	56.68		
MDZ	2.57	41 eP	56	36.60	1.7	
		eS	56	50.40		
RTBS	3.38	21 iPc	56	47.40	1.7	
RTCV	3.55	34 iPc	56	48.30	0.2	
		S	57	19.00		
ZON	3.76	29 eP	56	51.10	0.2	
RTCB	3.76	28 iPc	56	51.70	0.7	
CFA	3.90	35 ePc	56	52.70	-0.1	
		S	57	37.50		
RTLL	4.03	30 iPd	56	54.70	0.0	
RTRS	4.81	14 iPd	57	05.60	0.5	
RTPR	5.82	40 ePc	57	16.80	-2.3	
CYA	7.70	35 iPc	57	40.00	-4.8X	
		(S)	59	03.50		
CNCB	18.14	9 P	00	00 00	-0.5	
ZOBO	18.66	8 eP	00	05.00	-1.4	
PPD	21.35	58 eP	00	31.80	-1.5	
		e	00	35.10		
BAO	28.04	53 eP	01	36.00	-0.5	
		e	01	39.20		
LTX	70.96	330 eP	07	01.80	0.9	
KIC	74.42	71 P	07	22.00	0.6	
ALQ	77.00	331 (P)	07	36.00	0.2	
	1.0s	2.38nm			4.0mb	
BW06	84.97	332 eP	08	19.10	1.6	
	1.2s	1.83nm			3.9mb	
GBA	144.41	119 PKP	15	18.00	-0.7	

S.D. = 0.9 on 29 of 30 obs.

? MAY 15, 1993 17h 09m 24.31± 1.60s
17.551 N ± 9.2km 60.946 W ±13 9km
DEPTH = 10.0km (geophysicist)
3.8mb (1 obs.)
LEEWARD ISLANDS (92)
ML 3.6 (FDF). MD 3.5 (TRN).

CPB	0.84	276 iP	09	42.15	1.6	
		eS	09	50.18		
BPA	1.00	240 iPd	09	42.60	-0.8	
SEG	1.26	205 ePc	09	47.50	-0.2	
SFG	1.31	191 eP	09	49.80	1.2	
MGH	1.47	236 eP	09	49.80	-1.0	
		S	10	05.20		
NEV	1.61	255 eP	09	52.56	-0.2	
		i	10	11.04		
		iS	10	12.21		
DOG	1.64	203 eP	09	53.19	-0.2	
PAG	1.67	205 eP	09	53.82	0.1	
		S	10	11.50		
YKA	58.13	334 eP	19	19.80	-0.4	
	0.6s	0.60nm			3.8mb	

S D. = 1.0 on 9 of 9 obs.

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* MAY 15, 1993 17h 21m 41.64± 0.76s
36.981 S ± 7.9km 176.814 E ±11 0km
DEPTH = 251.6 ± 8.7 km
3.8mb (2 obs.)
OFF E. COAST OF N. ISLAND, N.Z. (160)

KUZ	0.91	285 P	22	16 10	-0.5	
URZ	1.30	170 P	22	18.70	-0.2	
		S	22	46.50		
HBZ	1.34	118 P	22	17.60	-1.6	
PUZ	1.58	134 Pc	22	20.10	-0.9	
		S	22	48.60		
PAHZ	1.88	174 P	22	24.40	0.8	
NOZ	1.90	150 P	22	23.70	0.1	
WHH	1.92	187 P	22	24.70	0.8	
MOH	2.16	173 P	22	27.00	0.9	
MAHZ	2.36	159 eP	22	28.80	0.9	
TTH	2.56	180 P	22	31.30	1.4	
WAHZ	2.74	187 eP	22	32.30	0.5	
BSZ	3.18	207 eP	22	38.40	1.9	
MNG	3.78	196 P	22	43.50	0.1	
		eS	23	32.60		
KIW	4.15	200 P	22	47.80	0.1	
MTW	4.30	193 P	22	49.10	-0.3	
CAW	4.34	198 P	22	49.80	-0.2	
DIW	4.43	210 eP	22	51.50	0.4	
BLW	4.50	193 eP	22	51.80	-0.1	
MRW	4.55	200 P	22	52.10	-0.4	
		S	23	48.20		
WEL	4.58	200 eP	22	52.50	-0.4	
MOW	4.60	195 eP	22	52.10	-1.0	
TCW	4.66	204 eP	22	54.10	0.2	
ORZ	5.09	220 P	22	58.90	-0.2	
THZ	5.66	211 P	23	05.40	-0.7	
		S	24	14.20		
KHZ	5.99	204 P	23	10.00	-0.2	
		S	24	20.90		
DSZ	6.14	218 P	23	11.10	-1.1	
LTZ	6.77	210 P	23	19.40	-0.6	
		S	24	36.80		
MOZ	7.43	204 eP	23	27.30	-1.0	
		S	24	50.00		
WVZ	7.67	216 eP	23	31.30	0.0	
ODZ	9.30	208 eP	23	52.50	0.3	
ASPA	39.03	278 eP	28	46.10	0.4	
	1.2s	6.50nm			4.0mb	
WRA	40.65	283 P	28	59.50	0.6	
	0.6s	1.20nm			3.5mb	

S.D. = 0.8 on 32 of 32 obs.

? MAY 15, 1993 18h 11m 20.20± 5.45s
40.579 N ± 8.2km 24.350 E ±43.5km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

OUR	0.37	229 iPg	11	27.80	0.0	
		iSg	11	35.01		
SRS	0.79	313 ePg	11	35.64	0.1	
		iSg	11	46.21		
SOH	0.80	288 iPg	11	36.01	0.3	
		eSg	11	46.01		
PAIG	0.83	218 ePg	11	36.24	0.0	
		eSg	11	46.56		
KNT	1.25	298 iPb	11	42.94	-0.4	
		eSb	11	59.56		

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

? MAY 15, 1993 18h 46m 34.87± 5.97s
41.976 N ±42.8km 23.015 E ±10.9km
DEPTH = 10.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)
ML 2.2 (SKO).

VAY	0.73	207 iPg	46	49.40	0.1	
		iSg	46	58.40		
KNT	0.82	186 iPg	46	50.46	-0.3	
		eSg	47	00.22		
SRS	0.96	153 iPg	46	53.14	0.0	
		eSg	47	05.94		
GRG	1.12	205 ePg	46	55.74	-0.1	
		eSg	47	10.10		
SOH	1.18	167 iPg	46	57.14	0.2	
		eSg	47	12.74		
THE	1.34	182 ePb	46	59.90	0.3	
		iSb	47	16.82		
OUR	1.80	156 ePb	47	06.06	0.0	
		iSb	47	31.74		
PAIG	2.11	166 ePn	47	10.46	-0.2	

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

% MAY 15, 1993 18h 53m 17.53± 1.37s
38.304 S ±13.5km 175.480 E ±11.5km
DEPTH = 140.0km (geophysicist)
NORTH ISLAND, NEW ZEALAND (159)

15d 18h

WHH	0.98	126	P	53	42.50	0.9
URZ	1.28	89	P	53	44.50	0.2
			eS	54	02.20	
PAHZ	1.35	115	P	53	45.70	0.6
MOH	1.55	123	P	53	47.80	0.6
WAHZ	1.55	154	P	53	48.30	1.0
TTH	1.62	140	P	53	49.20	1.2
TEHZ	1.98	149	P	53	52.20	0.0
NOZ	2.03	100	eP	53	52.60	-0.2
PUZ	2.20	85	eP	53	53.50	-1.4
			eS	54	18.70	
MNG	2.31	180	P	53	56.70	0.4
			S	54	23.50	
HBZ	2.34	73	P	53	56.10	-0.5
KIW	2.59	190	P	54	00.00	0.1
CAW	2.82	186	P	54	02.50	-0.2
MTW	2.85	180	P	54	02.30	-0.9
MRW	2.99	191	P	54	04.70	-0.2
			eS	54	39.50	
WEL	3.03	190	P	54	05.40	0.0
			eS	54	40.40	
BLW	3.06	180	P	54	04.80	-1.1
MOW	3.12	183	P	54	05.60	-1.0
ORZ	3.40	221	eP	54	11.70	1.4
KHZ	4.37	199	P	54	22.20	-0.9
			S	55	12.00	

S.D = 0.9 on 20 of 20 obs.

% MAY 15, 1993 19h 24m 33.38± 0.67s
26.821 S ± 6.5km 26.775 E ± 6.6km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.5 (PRE).

PRY	0.63	100	eP	24	46.00	-0.1
			S	24	53.50	
KSR	0.96	7	eP	24	52.00	-0.2
			S	25	05.00	
SWZ	1.34	254	eP	24	59.40	0.7
			S	25	15.00	
SEK	1.68	153	iPc	25	04.50	0.9
			S	25	24.50	
SLR	1.73	52	iPc	25	04.50	0.0
			S	25	27.40	
BLF	2.34	193	eP	25	13.00	-0.2
			S	25	43.00	
FRS	3.19	203	eP	25	24.00	-1.1

S D = 0.8 on 7 of 7 obs.

% MAY 15, 1993 19h 27m 20.82± 1.53s
46 259 N ± 8.4km 0.797 W ±14.2km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2 3 (LDG).

MFF	0.57	52	Pg	27	33.10	0.8
			Sg	27	41.00	
LSF	1.61	89	Pn	27	50.10	0.7
			Pg	27	51.60	
			Sg	28	10.90	
LFF	1.71	140	Pg	27	50.70	0.0
LPF	1.78	355	Pn	27	51.60	-0.2
			Pg	27	56.20	
			Sg	28	20.30	
RJF	1.88	120	Pn	27	52.00	-1.3
			Pg	27	55.30	
			Sg	28	17.80	
TCF	2.09	88	Pn	27	56.10	-0.2
			Pg	27	59.50	
			Sg	28	25.30	
LPO	2.11	138	Pg	27	57.90	1.4
			Sg	28	24.40	
MAF	2.33	90	Pn	27	59.20	-0.7
			Sg	28	33.30	
CAF	2.41	123	Pg	28	04.70	3.7X
			Sg	28	33.90	
BGF	2.54	82	Pn	28	02.00	-0.7
			Pg	28	08.50	
			Sg	28	41.30	

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

MAY 15, 1993 20h 26m 24.72± 0.21s
4.289 N ± 3.5km 127.799 E ± 5.5km
DEPTH = 150.9km (2 depth phases)
5.0mb (31 obs.)
TALAUD ISLANDS, INDONESIA (263)

CTB	4.60	309	ePc	27	35.00	1.3
			eS	28	37.00	
CGP	5.16	323	eP	27	42.00	0.9
			iS	28	42.00	
MAP	7.09	328	eP	28	06.00	-1.2
TSM	9.90	270	ePc	28	47.10	2.6
MTN	17.34	169	eP	30	16.00	-3.2X
	0.3s		110.00nm		5.7mb	
WRA	24.92	165	P	31	35.29	-0.3
	0.7s		104.70nm		5.5mb	
WB2	24.93	165	iPc	31	34.80	-0.8
	0.4s		288.10nm		6.2mb X	
MBL	26.47	197	eP	31	49.00	-0.7
KAGJ	26.91	6	P	31	53.50	-0.1
QIS	27.28	155	iPd	31	59.00	2.0
			ePKKP	50	51.40	
SSE	27.38	348	Pd	31	58.30	0.5
	1.0s		21.00nm		4.8mb	
			e	32	30.50	155km
KUMJ	28.24	5	P	32	05.20	-0.4
ASPA	28.42	168	iPc	32	06.20	-1.1
	0.4s		52.50nm		5.6mb	
LOE	28.67	299	iPd	32	09.00	-0.7
NST	29.45	295	eP	32	17.00	0.4
SHNJ	29.84	6	eP	32	18.70	-1.1
TKSJ	30.11	10	P	32	22.40	0.3
CTA	30.26	144	iPd	32	25.50	1.9
	0.9s		6.30nm		4.3mb	
WARB	30.31	182	iPd	32	21.00	-3.0
	0.5s		14.00nm		4.9mb	
KHT	30.59	292	eP	32	27.50	0.9
WKYJ	30.65	13	P	32	27.30	0.3
YONJ	31.19	9	P	32	31.60	0.0
CHTO	31.66	299	iPd	32	36.70	0.7
	0.7s		25.89nm		5.1mb	
TSRJ	32.00	13	P	32	37.80	-0.9
MEEK	32.00	196	eP	32	37.50	-1.3
CHJJ	33.25	17	P	32	47.90	-1.6
MTMJ	33.43	15	P	32	50.60	-0.6
MAT	33.49	15	eP	32	50.00	-1.7
	0.9s		29.41nm		5.0mb	
KAKJ	33.75	18	eP	32	51.90	-1.8
NIIJ	34.36	16	P	32	58.10	-0.9
FORT	34.87	180	eP	33	03.00	-0.4
	0.5s		41 00nm		5.4mb	
MRWA	35.19	198	eP	33	05.00	-1.1
COOL	35.55	190	eP	33	08.00	-1.1
BAL	36.28	196	eP	33	14.50	-0.8
OFUJ	36.85	18	eP	33	20.70	0.7
KLB	36.94	194	eP	33	20.00	-0.8
MUN	37.71	196	eP	33	27.00	-0.3
STK	38.29	161	iPc	33	32.20	0.1
	0.8s		53.70nm		5.3mb	
LZH	38.58	328	iPd	33	36.50	1.8
	1.5s		202.00nm		5.6mb	
			pP	34	15.00	179kmX
BRS	39.67	144	iPc	33	44.00	0.4
	0.9s		7.00nm		4.4mb	
MRRJ	39.77	15	P	33	45.70	1.5
HOOJ	40.37	18	P	33	51.50	2.4
ADE	40.37	166	iPc	33	50.60	1.3
ARMA	41.36	148	iPd	33	58.40	0.9
	0.6s		179.00nm		5.9mb	
KUSJ	41.46	19	P	33	59.60	1.6
ASAJ	41.77	16	P	34	02.40	1.8
BWA	43.14	155	iPc	34	13.70	1.8
CAN	44.15	155	iPc	34	20.90	0.9
CNB	44.30	155	eP	34	22.90	1.6
	1.0s		37.00nm		5.0mb	
TOO	44.78	160	iPc	34	26.10	1.1
	0.3s		27.00nm		5.4mb	
DZM	45.99	126	iPd	34	34.90	0.0
GUN	46.27	305	P	34	37.60	0.2
PKI	46.53	304	P	34	39.00	-0.4
KKN	46.71	305	P	34	40.60	-0.1
DMN	46.79	304	P	34	41.20	-0.2
	1.0s		42.00nm		5.0mb	
GKN	47.32	305	P	34	45.20	-0.2
HYB	49.94	289	eP	35	05.50	0.1
TAU	50.20	161	eP	35	06.00	-0.9
			e	55	45.00	
GBA	50.51	284	P	35	10.00	0.2
YAK	57.61	1	eP	36	00.00	-0.8
	1.0s		81.00nm		5.6mb	
Z	21s		0.60um		4.7Msz	
QUE	62.76	302	iPd	36	36.90	0.3
	0.9s		21.01nm		5.1mb	

MAIO	70.03	307	iPd	37	23.00	0.7
	0.8s		10.25nm		4.7mb	
CSY	71.51	187	iPc	37	31.40	1.0
	0.6s		12.80nm		4.9mb	
HON	73.74	69	P	38	00.00	15.7X
Z	22s		0.63um		4.9Msz	
SVW	79.78	29	eP	38	18.20	0.9
	0.9s		7.08nm		4.4mb	
CP2	81.43	29	(P)	38	25.30	-0.8
IMA	81.44	24	eP	38	26.64	0.6
	0.7s		3.76nm		4.2mb	
CRP	81.47	29	eP	38	26.26	0.0
SLKM	82.33	30	ePd	38	30.25	-0.4
PMR	82.95	29	eP	38	33.70	0.0
	0.9s		15.00nm		4.8mb	
FBA	83.76	25	eP	38	36.50	-1.3
	0.9s		2.92nm		4.1mb	
KLU	84.48	29	ePd	38	42.41	0.9
			e	39	19.60	147km
BALM	86.21	29	eP	38	51.09	0.9
OBN	87.20	325	iPd	38	54.00	-0.9
	1.1s		39.00nm		5.3mb	
			e	39	38.00	176kmX
			e	39	51.00	
INK	89.25	22	eP	39	05.00	0.5
KEV	89.73	340	eP	39	05.00	-1.7
MBC	91.18	13	eP	39	13.50	0.3
KAF	91.60	333	iP	39	14.30	-1.1
	0.6s		2.70nm		4.6mb	
NUR	92.73	331	iP	39	19.70	-0.9
	0.5s		2.10nm		4.6mb	
HFS	98.02	333	eP	39	43.00	-1.7
	0.6s		4.00nm		5.2mb	
YKA	98.55	25	eP	39	46.40	-0.7
	0.5s		0.50nm		4.3mb	
NB2	98.76	334	P	39	46.40	-1.8
	0.8s		1.70nm		4.6mb	
GEC2	102.31	322	Pdiff	40	04.10	-0.3
	0.6s		0.33nm		4.3mb	
KIC	131.45	282	PKP	45	22.00	0.1
TIC	131.67	283	PKP	45	22.60	0.3
LIC	131.76	282	PKP	45	22.80	0 3
Z	20s		0.36um		5.1Msz	
TCA	150.68	158	iPKPc	46	02.00	6.8X

S.D. = 1.1 on 84 of 87 obs.

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* MAY 15, 1993 20h 39m 19.99± 0.35s
54.710 S ±14.4km 131.925 W ± 9.2km
DEPTH = 10.0km (geophysicist)
5.1mb (14 obs.) 5.5Msz (18 obs.)
PACIFIC-ANTARCTIC RIDGE (691)
Mw 5.7 (HRV). Mo=1.5•10••18 Nm
(PPT).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 34S, 66C
Centroid Locotion:
Origin Time 20:39:27.6 0.2
Lot 54.23S 0.03 Lon 132.04W 0.03
Dep 15.0 FIX Half-duration 2.0
Moment Tensor; Scale 10••17 Nm
Mrr= 0.24 0.10 Mtt= 2.39 0.14
Mff=-2.63 0.08 Mrt= 0.00 0.00
Mrf= 0.00 0.00 Mtf= 3.38 0.10
Principol Axes:

T	Vol= 4.09	Plg= 0	Azm=153
N	0.24	90	180
P	-4.33	0	63

Best Double Couple:Mo=4.2•10••17
NP1:Strike=198 Dip=90 Slip=-180
NP2: 288 90 0

SBA	31.25	201	iPd	45	48.50	7.2X
SPA	35.47	180	iPc	46	20.80	2.5
	1.1s		36.90nm		5.2mb	
Z	20s		4.14um		5.2Msz	
			i	52	05.00	
PEL	47.36	89	eP	47	56.00	0.2
	1.1s		253.16nm		6.2mb X	
MDZ	48.61	90	eP	48	08.50	2.9X
CSY	50.48	208	P	48	29.70	10.3X
NVL	52.17	166	eP	48	37.00	4.8X
Z	16s		6.00um		5.7MszX	
N	16s		1.50um			
E	16s		4.00um			
			e	48	55.00	
			ePcP	49	39.00	

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                    ePP    50 40.00                 |          2.0s     82.00nm                    | KHL      0.97 171 iPg    00 22.50    0.3
                    eS     56 06.00                 | ETOR   144.35  92 ePKP   58 56.50   -0.8     |                  iSg    00 35.00
                    eScS   58 15.00                 | BOD    144.48 303 ePKP   58 53.20   -3.6X    | KCT      1.22 323 iPn    00 27.20    0.9
                    eSS    59 35.00                 |          1.5s     31.00nm                    | GPA      1.26  37 ePn    00 26.90    0.1
                    eSSS   01 35.00                 | ECRI   145.22  89 ePKP   59 00.60    1.9     | YLV      1.28   2 ePn    00 27.50    0.3
                    eLQ    06 20.00                 | EROQ   145.78  94 ePKP   59 04.20    4.6X    | EYL      1.43  26 ePn    00 29.00   -0.4
CYA     53.65  89 ePd    48 42.80   -0.9            | EGRA   146.24  91 ePKP   59 05.10    4.9X    | BNT      1.53 315 ePn    00 30.00   -0.6
FSA     55.31  87 e(P)   48 56.00    0.2            | ZAK    146.89 286 ePKP   59 02.00    1.0     | EDC      1.55 314 ePn    00 30.50   -0.5
CNB     55.84 256 eP     48 59.30   -0.3            |          1.3s     59.00nm                    | KGT      1.95 308 iPn    00 36.50   -0.2
        1.1s     52.00nm          5.5mb             |                     e      02 34.00          | CTT      1.99 340 ePn    00 38.00    0.7
TOO     56.36 251 eP     49 04.30    0.9            | EPF    147.13  91 ePKP   59 06.30    4.5X    |       S.D. = 0.6  on  10 of  10 obs.
        1.0s     44.00nm          5.4mb             |          1.5s     58.50nm                    | ------------------------------------------
YJA     58.62  84 ePc    49 20.20    0.3            | IRK    147.21 289 ePKP   59 00.00   -1.5     | %  MAY  15, 1993  21h 31m 28.13± 0.76s
ARE     59.73  75 eP     49 30.00    2.5            |          6.0s      0.21nm                    |    39.633 N ± 6.6km   27.161 E ± 7.4km
NNA     60.46  67 eP     49 31.50   -0.7            |                     e      59 12.00          |    DEPTH =  10.0km  (geophysicist)
        1.0s     20.00nm          5.2mb             |                     e      59 31.30          |  TURKEY                                  (366)
      Z  20s      6.38um          5.8Msz            |                     e      59 54.20          |       ML 2.8 (ISK).
CNCB    61.43  78 P     49 36.80   -2.6            |                     e      00 13.00          |
LPB     61.59  78 P     49 40.20   -0.1            |                     e      00 49.00          | EZN      0.67 287 iPg    31 41.70    0.2
        1.0s     60.00nm          5.7mb             |                     e      01 28.50          |                  iSg    31 49.70
      Z  15s      1.33um          5.2MszX           | DAG    147.68  23 ePKP   59 02.80    1.2     | KGT      0.82   8 iPg    31 43.50   -0.6
                   LR     58 02.00                  |          1.0s     16.00nm                    |                  iSg    31 55.50
ZOBO    61.78  78 P     49 41.30   -0.5            | LFF    148.50  88 ePKP   59 09.30    5.5X    | EDC      0.89  37 iPg    31 45.50    0.2
        1.1s     63.81nm          5.7mb             |          1.4s     50.95nm                    |                  eSg    31 58.50
                   LR     58 22.00                  | LPO    148.61  89 ePKP   59 09.70    5.7X    | BNT      0.93  39 ePg    31 46.00    0.1
STK     62.72 253 iPc    49 46.90   -0.3            | MFF    148.92  85 ePKP   59 08.00    3.6X    |                  eSg    31 59.00
        1.0s      2 90nm          4.4mb             | RJF    149.16  88 ePKP   59 10.70    5.8X    | KCT      1.11  56 ePn    31 49.00    0.1
                    e      49 53.30                 |      Z  20s      1.05um          5.6Msz    | IZM      1.24 176 ePn    31 51.00   -0.1
CTA     69.17 265 iPc    50 29.00    0.4            | CAF    149.26  89 ePKP   59 11.60    6.5X    |       S.D. = 0.4  on   6 of   6 obs
                  i(pP)  50 35.00   19kmX           |          1.4s     40.10nm                    | ------------------------------------------
                    eS     59 30.00                 | LSF    149.70  87 ePKP   59 11.90    6.3X    | *  MAY  15, 1993  21h 51m 06.90± 0.96s
ASPA    73.36 253 eP     50 52.30   -1.4            |          1.4s     49.65nm                    |    37.461 N ±10.3km   21.089 E ± 7.5km
        1.4s     15.40nm          4.9mb             | TCF    150.11  87 ePKP   59 12.90    6.6X    |    DEPTH =  10.0km  (geophysicist)
      Z  22s      4.90um          5.7Msz            |          1.4s     35.30nm                    |  SOUTHERN GREECE                         (368)
WARB    75.28 246 eP     51 01.30   -3 5X           | MAF    150.28  88 ePKP   59 13.20    6.7X    |       MD 3.3 (ATH).
        0.7s      6.00nm          4.7mb             |          1.6s     29.85nm                    |
WB2     76.07 255 iPd    51 08.40   -0.9            | BGF    150.63  87 ePKP   59 14.30    7.3X    | VLS      0.82 331 ePg    51 23.00    0.3
        1.0s      7 80nm          4.8mb             |          1.5s     43.35nm                    |                  eSg    51 36.60
                    i      51 15.50                 | AVF    151.05  87 ePKP   59 14.80    7.2X    | VLI      1.65 116 ePn    51 37.50    1.4
WRA     76 08 255 P      51 08.90   -0.5            |          1.4s     35.30nm                    | ATH      2.15  75 ePb    51 41.60   -1.6
        0.7s      3.10nm          4.5mb             | SMF    151.25  88 ePKP   59 15.30    7.3X    | KEK      2.47 336 ePg    51 55.00    7.2X
HON     78 96 335 P      51 30.00    5.0X           |          1.3s     24.20nm                    | KZN      2.89  10 ePn    51 54.00    0.1
      Z  19s      3.64um          5.7Msz            | SSF    151.28  87 ePKP   59 15.50    7.5X    | OHR      3.65 357 ePn    52 06.00    1.3
TUC     88.56  18 eP     52 13.41   -0.3            |          1.2s     15.75nm                    | VAY      4.02  16 ePn    52 09.00   -0.8
        1.7s     47 20nm          5.5mb             | LBF    151.51  87 ePKP   59 16.00    7.6X    | SKO      4.51   3 eP     52 22.50    5.7X
GLA     88.64  14 eP     52 14.81    0.8            |          1.3s     19.85nm                    | BRT      4.56 320 P      52 17.20   -0.3
PLM     88.66  13 (P)    52 13.62   -0.7            | LOR    151.59  87 ePKP   59 16.20    7.7X    | MEU      4.93 268 P      52 21.80   -1.0
ABL     89.87  10 eP     52 20.91    0.9            |          1.4s     23.10nm                    | MGR      5.08 303 P      52 25.50    0.6
GSC     90.59  12 (P)    52 23.96    0.8            |      Z  22s      1.05um          5 6Msz    |       S.D. = 1.2  on   9 of  11 obs.
ISA     90.75  11 eP     52 24.53    0.6            | QUE    151.99 217 ePKP   59 13.40    3.6X    | ------------------------------------------
        1.2s     10.25nm          5.0mb             | BSF    153.59  88 ePKP   59 20.70    9.3X    |    MAY  15, 1993  21h 52m 25.34± 0.10s
      Z  22s      3.26um          5.7Msz            |          1.2s     16.35nm                    |    51.374 N ± 2.5km  178.669 W ± 1.6km
SAO     91.55   8 P      52 40.00   12.5X           | CDF    154.16  87 ePKP   59 22.70   10.6X    |    DEPTH =  32.0km  (geophysicist)
      Z  18s      3.81um          5.9Msz            |          1.6s     18.65nm                    |    6.2mb (163 obs.)  6.6Msz ( 45 obs.)
ALO     91.94  21 eP     52 29.04   -0.5            | GRF    157.05  87 ePKP   59 19.20    3.3X    |  ANDREANOF ISLANDS, ALEUTIAN IS. (  7)
        1.3s     15.07nm          5.2mb             |      Z  22s      0.70um          5.4Msz    |       Mw 6.8 (GS), 6.9 (HRV). ML 6.1
CMB     92.91   9 P      52 40.00    6.3X           |                     e      59 51.00          |       (PMR). Ms 6.3 (BRK).
      Z  18s      2.38um          5.7Msz            | OHR    157.39 116 ePKP   59 19.30    2.7X    |       Mo=3.6*10**19 Nm (PPT). Felt (V)
BONR    93 04  11 eP     52 35.31    0.7            | GEC2   158.10  91 PKP    59 20.60    3.4X    |       on Adak and (IV) on Amchitka.
MEO     93.64  27 iPc    52 37.40    0.3            |          1.2s      0.71nm                    |       Depth from broadband
MSU     94.39  15 eP     52 41.30    0.5            |                     e      59 22.40          |       displacement seismograms.
                    e      52 50.03                 |                     e      59 27.30          |       FAULT PLANE SOLUTION: P-Waves
MIAR    94.82  31 P      53 00.00   17.5X           |                     e      59 43.60          |        NP1:Strike= 50 Dip=75 Slip=  90
      Z  20s      0.45um          4.9Msz            | SKO    158.35 115 ePKP   59 21.00    3.4X    |        NP2:       230     15        90
DUG     95.94  15 P      53 00.00   12.2X           | VAY    158.46 118 ePKP   59 21.00    3.3X    |        Principal Axes:
      Z  19s      1.19um          5.4Msz            | FRU    159.00 247 (PKP)  59 17.00   -1.3     |          T                Plg=60  Azm=320
GOL     96.76  20 P      53 00.00    8.4X           |                     e      59 58.00          |          P                    30      140
      Z  19s      2.31um          5.7Msz            | BRG    159.14  86 e(PKP)59 30.50   12.3X     |       Comment: The focal mechonism is
GOGA    97.15  39 P      53 10.00   16.9X           |                     e      00 09.80          |         poorly controlled and
      Z  21s      0.45um          4.9Msz            | MAIO   159.97 208 ePKP   59 23.00    3.3X    |         corresponds to reverse
CEH    100.99  41 Pdiff  53 20.00    9.4X           | MLR    163.13 114 ePKP   59 20.00   -2.6     |         faulting. The preferred fault
      Z  18s      0.72um          5.2Msz            | TAB    163.31 175 ePKP   59 37.00   13.9X    |         plane is NP2.
RSSD   101.28  20 Pdiff  53 20.00    8.0X           | VRI    163.79 114 ePKP   59 21.00   -2.1     |       RADIATED ENERGY
      Z  21s      1.36um          5.4Msz            | GRS    164.74 175 ePKP   59 28.00    3.6X    |        No. of sta:  27  Focal mech.  F
HRV    109.64  43 PKP    58 10.00   18.3X           |                     e      00 21.00          |        Energy         6.3±0.8*10**13 Nm
      Z  19s      0.74um          5.3Msz            | GRO    168.52 171 ePKP   59 35.00    8.2X    |       MOMENT TENSOR SOLUTION
CBM    114.68  43 PKP    58 20.00   18.8X           | OBN    173.37  82 ePKP   59 24.00   -4.8X    |       Dep  25             No. of sta: 41
      Z  21s      0.80um          5.3Msz            |       S.D. = 1.3  on  38 of  88 obs.      |       Moment Tensor;   Scale 10**19 Nm
BCAO   124.47 143 ePKPd 58 21.00    0.0            | ------------------------------------------ |         Mrr= 0.46        Mtt=-0.77
        0.5s      8.00nm                           | %  MAY  15, 1993  21h 00m 04.21± 0.60s     |         Mff= 0.31        Mrt= 1.69
                    ic     58 23.00                 |    39.282 N ± 7.2km   29.328 E ± 8.1km     |         Mrf= 0.82        Mtf= 0.14
ILT    127.12 340 ePKP   58 25.00    0.6            |    DEPTH =  18.7 ±  8.4 km                 |        Principal oxes:
LZH    137.90 267 ePKP   58 49.00    2.9X           |  TURKEY                                  (366)|         T  Vol=  1.98  Plg=50  Azm=320
      Z  30s      0.89um          5.3MszX           |       ML 2.9 (ISK).                        |         N        0.03      14       68
                   sPKP    58 59.00                 |                                            |         P       -2.01      36      169
CIT    142.07 294 ePKP   58 55.00    2.0            | ALT      0.65 110 ePg    00 16.70   -0.1     |       Best Double Couple:Mo=2.0*10**19
TIK    143.31 328 ePKP   58 51.00   -3.4X           |                     eSg    00 24.70          |        NP1:Strike=311 Dip=16 Slip= 154
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15d 21h

NP2: 66 83 75
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 46S, **C M.W.: 44S, **C
Centroid Location:
Origin Time 21:52:34.8 0.1
Lat 51.16N 0.01 Lon 178.45W 0.01
Dep 25.5 0.4 Half-duration 2.0
Moment Tensor; Scale 10**19 Nm
Mrr= 1.27 0.01 Mtt=-1.22 0.01
Mff=-0.05 0.00 Mrt= 1.69 0.04
Mrf= 1.18 0.03 Mtf=-0.51 0.00
Principal Axes:
T Val= 2.42 Plg=60 Azm=316
N 0.07 7 59
P -2.49 28 154
Best Double Couple:Mo=2.5*10**19
NP1:Strike=263 Dip=18 Slip= 115
NP2: 57 74 82

ADK	1.34	67	ePd	52	48.90	1.0
SMY	4.66	290	eP	53	39.20	3.9X
SDN	11.55	63	ePc	55	10.50	-0.4
PET	14.00	286	eP+	55	44.00	0.6
	1.0s	580.00nm				6.3mb
			eS	58	22.00	
MCNL	15.84	51	ePd	56	07.94	0.6
SKR	15.87	277	iPc	56	07.60	-0.2
			eS	58	59.00	
SVW	16.01	44	ePc	56	12.40	2.9X
CDD	16.10	52	eP	56	09.81	-0.9
PDB	16.12	49	eP	56	13.01	2.2
AUI	16.33	51	eP	56	14.92	1.3
AUL	16.34	51	eP	56	14.50	0.8
kDC	16.40	57	eP	56	11.80	-2.6
ILT	16.58	360	iPc	56	20.00	3.4X
	1.2s	1240.00nm				5.9mb
SYI	16.65	54	eP	56	16.53	-1.0
INW	16.72	49	eP	56	21.00	2.5
INE	16.75	49	eP	56	19.66	0.7
TTA	16.77	38	ePc	56	22.30	3.2X
NCT	16.98	47	eP	56	23.05	1.2
RDW	17.01	48	eP	56	23.62	1.3
DFR	17.11	47	ePc	56	25.27	1.9
CNPM	17.46	51	ePc	56	27.45	-0.3
CKL	17.49	46	eP	56	29.87	1.7
SPU	17.61	46	eP	56	31.80	2.2
BRLK	17.70	51	eP	56	32.14	1.5
SLKM	18.23	49	eP	56	36.94	-0.3
SUA	18.30	46	eP	56	38.09	-0.1
SEW	18.49	50	eP	56	39.13	-1.2
MPA	18.63	49	eP	56	41.06	-1.1
PWA	18.76	46	eP	56	43.90	0.3
PMS	18.77	47	ePc	56	42.40	-1.4
PTE	18.90	48	eP	56	45.00	-0.3
PMR	19.07	46	eP	56	48.70	1.3
	0.7s	84.50nm				5.1mb X
Z	22s	252.70um				5.2Msz
MGD	19.12	309	ePc+	56	49.00	1.0
	1.3s	320.00nm				5.4mb
Z	16s	96.00um				7.6MszX
N	16s	39.00um				
E	16s	71.00um				
GHO	19.23	46	eP	56	48.62	-0.7
TRF	19.29	40	eP	56	49.21	-0.9
HUR	19.36	42	eP	56	49.59	-1.2
IMA	19.41	31	ePc	56	51.60	0.1
SML	19.50	46	eP	56	50.35	-2.1
MLY	19.85	36	ePc	56	56.14	0.0
RND	19.85	41	eP	56	55.12	-1.1
MID	19.88	54	eP	56	56.45	0.1
MCK	19.95	40	ePc	56	55.91	-1.3
SCM	19.97	46	eP	56	55.06	-2.4
HIN	19.98	51	eP	56	56.20	-1.4
VLZ	20.23	49	eP	56	58.37	-1.7
NEA	20.26	38	ePc	57	00.17	-0.2
CVA	20.38	50	eP	57	00.26	-1.4
KLU	20.52	48	eP	57	01.45	-1.7
WRH	20.60	39	ePc	57	02.43	-1.5
MDM	20.76	37	ePc	57	05.02	-0.5
CCB	20.79	38	eP	57	04.62	-1.2
COL	20.90	38	ePc	57	05.68	-1.3
	1.2s	1496.45nm				6.3mb
FBA	20.90	38	eP	57	06.00	-1.0
SDG	20.97	45	eP	57	05.57	-2.2
HDA	21.02	40	eP	57	06.85	-1.4
GLM	21.09	38	eP	57	08.16	-0.8
PAX	21.14	44	ePc	57	08.59	-0.9
THY	21.16	43	eP	57	10.32	0.7
GLB	21.49	49	eP	57	11.29	-1.8
CROM	21.68	51	eP	57	15.04	-0.1
BALM	22.11	50	eP	57	19.72	0.4
YAH	22.31	52	eP	57	21.52	0.1
BRW	22.32	18	iPc	57	22.40	1.3
FYU	22.58	35	eP	57	24.49	0.8
CTGM	22.59	50	eP	57	24.16	0.1
KUR	22.95	268	iPd-	57	30.00	2.4
	1.0s	750.00nm				6.1mb
Z	16s	33.60um				5.9MszX
N	16s	30.80um				
E	16s	30.00um				
			i	58	01.50	
			ePPP	58	11.00	
			iS	01	36.00	
			eSS	02	34.00	
YSS	25.40	275	iPc+	57	52.00	0.9
	1.0s	990.00nm				6.4mb
Z	16s	36.50um				6.0MszX
N	16s	39.50um				
E	16s	22.00um				
			ePPP	58	48.00	
			e	01	23.00	
			iS	02	14.00	
			eSSS	03	20.00	
SIT	25.62	60	eP	57	54.00	0.9
Z	22s	91.40um				6.3Msz
KUSJ	25.98	266	iP+	57	55.10	-1.5
ASAJ	26.76	270	eP	58	04.50	0.8
HOOJ	27.25	266	eP	58	07.50	-0.7
INK	27.42	35	eP	58	10.00	0.5
	1.0s	160.00nm				5.6mb
ERM	27.53	265	iPc	58	11.00	0.3
SAP	28.12	269	eP	58	17.00	1.0
MRRJ	28.61	268	eP	58	19.30	-1.2
YAK	29.47	311	eP	58	26.50	-1.5
	1.3s	383.00nm				6.0mb
			ipP	59	21.00	280kmX
			e	59	35.00	
			i	01	36.00	
			iS	03	22.00	
			esS	05	12.00	
AOMJ	30.08	265	eP	58	34.60	0.9
OFUJ	30.14	262	eP	58	33.70	-0.6
TIK	30.68	330	iPc+	58	38.50	-0.1
	1.5s	480.00nm				6.1mb
Z	16s	60.00um				6.3MszX
			e	59	42.00	
			iPPP	59	54.00	
			i	01	32.00	
			e	05	25.00	
KAKJ	32.87	259	P	58	57.40	-0.8
NIIJ	32.93	261	P	58	58.20	-0.5
MBC	33.58	22	ePc	59	04.30	0.3
	0.8s	115.00nm				5 8mb
CHJJ	33.70	260	P	59	05.20	-0.2
OPA	33.72	144	eP	59	04.25	-1.4
MAJO	33.87	261	ePc	59	06.59	-0.3
			ec	59	08.00	
			ec	59	09.32	
			epPc	59	15.45	30kmX
			esPc	59	21.24	
MAT	33.87	261	eP	59	07.00	0.1
			eS	04	31.00	
KIP	33.96	144	eP	59	06.65	-1.1
	1.4s	628.81nm				6.4mb
VLA	33.99	276	iPc	59	11.00	3.2X
	2.0s	1380.00nm				6.5mb
Z	14s	1.60um				4.9MszX
N	20s	13.50um				
E	16s	3.00um				
			i	00	21.00	
			i	01	40.00	
			iSS	07	00.00	
			i	09	22.00	
HON	34.06	144	P	59	07.00	-1.6
Z	21s	136.62um				6.7Msz
			S	04	40.17	
MTMJ	34.09	262	P	59	07.80	-1.1
DHH	34.18	144	eP	59	08.60	-1.1
MDJ	34.65	280	ePc	59	12.39	-1.2
			ec	59	13.63	
			epPc	59	21.58	31kmX
			esPc	59	27.37	
IIDJ	34.73	260	eP	59	15.30	0.9
PGC	34.88	72	eP	59	17.00	1.6
	0.7s	117.00nm				5.9mb
YKA	35.18	46	eP	59	17.10	-0.7
	0.5s	39.00nm				5.6mb
MCW	35.24	72	eP	59	19.36	0.8
GMW	35.78	74	eP	59	23.20	0.1
TSRJ	35.89	262	eP	59	22.60	-1.6
BMW	36.01	75	eP	59	26.03	0.8
RMW	36.41	73	eP	59	29.08	0.6
LON	36.74	74	(P)	59	31.75	0.5
SHW	36.75	75	eP	59	32.11	0.6
COR	36.90	78	ePc	59	33.81	1.3
WKYJ	37.00	260	P	59	34.20	0.7
YONJ	37.68	264	P	59	40.00	0.8
BOD	37.95	307	eP	59	39.90	-1.3
	1.0s	247.00nm				6.0mb
VGB	37.97	75	eP	59	42.52	0.9
TKSJ	38.11	262	eP	59	43.50	0.7
DPW	38.36	71	eP	59	44.39	-0.5
HIA	38.36	292	ePc	59	44.27	-0.6
			ec	59	45.51	
			ec	59	46.92	
			epPc	59	53.38	31kmX
			ec	59	58.68	
ARC	38.43	84	eP	59	39.90	-5.5X
	1.6s	690.00nm				6.2mb
Z	18s	32.00um				6.2Msz
			ePP	01	15.90	
			eS	05	39.90	
			eScS	05	50.90	
			eSS	08	26.90	
			eLQ	08	36.90	
			eLR	10	06.90	
FHC	38.53	84	eP	59	48.49	2 1
	1.0s	472.33nm				6.2mb
SHK	38.60	263	ePc	59	47.50	0.6
KMPM	38.67	85	eP	59	49.36	1.8
NEW	38.81	70	P	00	00.00	11.4X
Z	21s	263.16um				7 0Msz
LGPM	39.19	83	eP	59	52.82	0.9
LBFM	39.53	82	eP	59	55.43	0.6
SHNJ	39.85	264	P	59	58.10	0.8
EBI	40.10	71	eP	59	58.84	-0.7
LMEM	40.19	83	eP	00	01.38	1.1
MIN	40.28	83	eP	59	55.97	-5.0X
	1.4s	400.00nm				6.0mb
Z	19s	21.00um				6.0Msz
			ePP	01	47.97	
			eS	06	06.97	
			eLQ	09	16.97	
			eLR	11	29.97	
NTYM	40.78	86	eP	00	05.48	0.6
ORV	40.81	84	eP	00	05.63	0.5
KUMJ	41.08	263	P	00	08.30	0.9
BKS	41.36	86	eP	00	06.09	-3.6X
	0.8s	230.00nm				5.9mb
Z	18s	51.00um				6.4Msz
			ePP	01	58.09	
			eS	06	21.09	
			eSS	09	29.09	
			eLQ	09	40.09	
			eLR	11	22.09	
HMR	41.46	86	eP	00	12.18	1.7
STAN	41.68	87	ePc	00	14.84	2.5
	1.3s	660.00nm				6.2mb
Z	17s	43.00um				6.4MszX
			ePP	02	09.71	
			eS	06	27.71	
			eSS	09	28.71	
			eLQ	09	49.71	
			eLR	11	42.71	
KAGJ	41.96	261	P	00	15.20	0.5
MHC	42.06	87	eP	00	14.15	-1.4
	1.3s	470.00nm				6.1mb
Z	17s	52.00um				6.5MszX
			ePP	02	15.15	
			eS	06	32.15	
			eScS	06	42.15	
			eSS	09	49.15	
			eLQ	09	59.15	
			eLR	11	48.15	
COE	42.09	87	eP	00	16.54	0.9
ARN	42.12	86	eP	00	15.15	-0.8
CMB	42.42	85	ePc	00	18.76	0.3
	1.4s	380.00nm				5.9mb
Z	21s	65.00um				6.5Msz
			ec	00	21.40	

15d 22h

				epPd	00	27.36	29kmX			1.4s	235.40nm		6.0mb					PP	03	07.50									
				esPc	00	31.17		MSU	47.21	79	eP	00	56.67	-0.4				PPP	05	28.00									
				ePP	02	06.68		EMUT	47.24	76	eP	00	56.81	-0.5				ScP	06	43.00									
				eS	06	40.68		MOY	47.53	304	eP	01	01.00	1.9				S	09	48.00									
				eScS	06	50.68			2.0s	238.00nm		5.9mb						i	09	56.00									
				eSS	09	49.68		PLM	47.61	87	eP	00	59.05	-1.1				sS	10	18.00									
				eLQ	10	07.68		GUMO	47.77	231	eP	00	59.00	-2.4				ScS	11	45.00									
				LR	12	02.68			1.4s	444.50nm		6.3mb						SS	13	42.00									
SAO	42.54	87	ePc	00	19.79	0.4		Z	31s	17.29um		5.8MszX					ENH	55.96	277	ePc	02	00.92	-1.7					
	0.9s	120.00nm				5.6mb					e	01	12.20							ec	02	02.24						
Z	18s	35.00um				6.3Msz	PJG	47.77	231	eP	00	58.80	-2.6							ec	02	03.65						
				ePP	02	03.91		GUA	47.79	231	eP	00	58.80	-2.7							epPc	02	10.02	30kmX				
				eS	06	39.91			0.8s	155.22nm		6.1mb									esP	02	15.81					
				eSS	09	52.91		SRU	47.85	77	eP	01	01.62	-0.4							ACO	56.27	72	iPc	02	03.20	-1.7	
				eLQ	10	06.91		SSE	48.08	269	ePc	01	03.55	-0.1							KEV	57.74	350	iP	02	14.00	-0.8	
				eLR	11	55.91			1.5s	399.00nm		6.2mb												ePP	04	28.00		
BUT	42.63	70	ePc	00	19.24	-1.0		Z	20s	17.50um		6.0Msz												eS	10	12.00		
HRY	42.69	69	ePc	00	20.02	-0.6		N	12s	3.80um											MEO	57.91	73	iPd	02	15.90	-0.6	
HBMT	42.72	70	ePc	00	20.34	-0.8		E	12s	8.50um											OCO	58.06	72	iPd	02	19.30	1.7	
LRM	42.80	70	ePc	00	21.16	-0.6				ec	01	04.88									FNO	58.29	72	iPc	02	19.10	0.0	
PRS	42.86	87	eP	00	22.67	0.7				ec	01	06.45									LTX	58.57	81	eP	02	18.11	-3.2X	
LLA	42.94	87	eP	00	23.29	0.6				epPc	01	12.41	30kmX								TRO	58.62	353	eP	02	19.42	-1.6	
MCMT	43.10	72	eP+	00	23.36	-0.8				esPc	01	18.45									HKC	58.71	267	eP	02	22.20	0.0	
LCCM	43.13	70	ePc	00	22.59	-1.7				PP	02	52.00												eS	10	26.00		
KVN	43.22	82	eP	00	26.03	0.9				ScP	06	24.60									BCP	59.13	257	eP	02	28.40	3.0X	
SXM	43.36	69	eP+	00	26.65	0.5				S	08	04.00									BAG	59.16	257	eP+	02	23.00	-2.5	
BGMT	43.36	71	ePc	00	25.61	-0.6				sS	08	08.00									WMO	59.41	303	ePc	02	26.52	-0.5	
FRI	43.48	86	eP	00	27.78	0.8				PS	08	26.00												ec	02	29.42		
MMPM	43.52	84	eP	00	28.67	0.9				SS	11	40.00												epPc	02	35.29	29kmX	
MEMM	43.54	84	eP	00	28.97	1.5	GLA	49.08	86	eP	01	10.03	-1.4											esPc	02	41.25		
BONR	43.76	83	eP	00	29.08	-0.6	PV09	49.08	77	eP	01	10.73	-0.9								CCM	59.96	66	ePc	02	28.43	-2.3	
PHAM	43.78	87	P	00	31.02	1.5	PV10	49.22	77	eP	01	11.88	-0.8									1.6s	1250.52nm			6.8mb		
MEMT	43.79	70	eP+	00	29.22	-0.5	PV08	49.33	76	eP	01	12.52	-1.1											ec	02	29.51		
MRCM	43.81	84	eP	00	30.76	0.8	ULM	49.62	57	ePc	01	20.70	5.4X											ec	02	31.50		
TPMT	43.86	71	ePc	00	29.50	-0.9	KBS	49.82	357	iPc	01	16.50	0.1								SDF	60.04	349	iP	02	29.70	-1.1	
TNP	44.36	83	eP	00	33.50	-0.9	GOL	50.60	73	ePc	01	22.79	-0.5								SLM	60.14	65	P	02	40.00	8.1X	
BCH	44.39	88	eP	00	33.71	-0.9		1.3s	1194.91nm			6.7mb										Z	20s	28.33um			6.4Msz	
HVU	44.87	75	eP	00	38.31	-0.1				ec	01	23 70									LOF	60.47	355	eP	02	33.84	0.1	
SBC	45.10	88	(P)	00	41.10	1.0				ec	01	25.69									EEO	60.48	51	eP	02	35.50	1.4	
			epPd	00	49 46	28kmX	GLD	50 66	73	eP	01	23.93	0.3								FVM	60.48	65	eP	02	32.05	-2.2	
			esPc	00	52.93			1.1s	369.41nm			6.3mb										0.8s	466.66nm			6.7mb		
ABL	45.15	88	eP	00	40.55	-0.2		Z	21s	114.61um		6.9Msz										Z	20s	69.75um			6.8Msz	
BJI	45.46	282	ePc	00	42.70	-0.1	UER	51.13	307	iP	01	26.50	-0.2								PLP	60.61	250	ePd	02	34.80	-0.5	
	1.4s	358.00nm				6.1mb		1.1s	130.00nm			5 8mb									RAB	60.71	214	iP+	02	36.00	0.1	
N	16s	27.10um						Z	15s	22.50um		6.3MszX												iS	10	50.00		
			ec	00	44.19			N	15s	13.80um											MIAR	61.05	70	ePc	02	36.40	-1.7	
			epPc	00	51.80	30kmX		E	15s	12.90um												1.0s	659.22nm			6.7mb		
			eS	07	24.00					e	02	46.00												ec	02	37.39		
			eScS	10	40.00					PPP	03	30.00												ec	02	39.79		
IRK	45.48	303	iP+	00	42.00	-0.9				iS	08	35.50									PGP	61.18	255	ePc	02	36.00	-3.2X	
	1.4s	202.00nm				5.8mb				e	08	54.00									OLY	61.61	68	eP	02	39.79	-2.1	
Z	16s	32.30um				6.4MszX				e	11	16.00									ELC	61.65	65	eP	02	40.31	-1.8	
N	16s	17.64um					DAG	51 49	6	eP	01	28.10	-1.0								SVE	61.66	327	ePc+	02	40.00	-1.9	
E	16s	26.88um						1.4s	267.44nm			6.0mb										1.2s	140.00nm			6.0mb		
			e	00	58.00		TUC	52.10	84	ePc	01	34.01	-0.5									Z	20s	65.00um			6.8Msz	
			e	01	12.00			Z	18s	23.85um		6.3Msz										N	20s	43.00um				
			e	01	26.00					ec	01	36.00										E	20s	33.00um				
			e	01	52.00					epPd	01	42.37	28kmX											ePPP	06	29.00		
			e	02	08.50		TATO	52.20	263	eP	01	35.75	0.6											ePS	11	22.00		
			ePP	02	29.00			0.8s	77.16nm			5.7mb												e	15	00.00		
			e	02	43.00		FRB	52.99	32	eP	01	39.00	-1.5								ELF	61.79	55	P	02	42.70	-0.4	
			e	03	10.00			0.5s	73.00nm			5.9mb									MAP	61.87	250	iPc	02	40.00	-3.8X	
			e	06	10.00		ANMO	53.02	78	ePc	01	40.76	-0.6								DLA	61.89	56	P	02	43.80	0.1	
			eS	07	40.00					ec	01	43.08									LDN	61.97	55	P	02	43.70	-0.5	
			e	10	34.00					epPd	01	49.37	28kmX								ACTO	62.14	54	P	02	45.11	-0.3	
			e	11	00.00		ALQ	53.02	78	P	01	50.00	8.6X								GRT	62.25	66	eP	02	45.82	-0.4	
TPNV	45 67	83	P	00	44.96	0.2		Z	16s	25.10um		6.3MszX									AKU	62.32	9	eP	02	47.00	0.8	
	0.6s	57.51nm				5.7mb	XAN	53.74	281	ePc	01	45.28	-1.2									1.4s	176.74nm			6.0mb		
FCC	45.91	46	ePc	00	52.30	6.2X				ec	01	46.68										Z	23s	63.64um			6.7MszX	
GSC	46.37	85	ePc	00	50.20	-0.1				ec	01	48.09									TYNO	62.60	55	P	02	47.99	-0.4	
			ec	00	52.68					epPc	01	54.30	30kmX								ARU	62.66	328	ePc	02	47.18	-1.5	
			epPd	00	58.31	27kmX	BJO	53.84	354	eP	01	46.65	0.0									2.5s	800.00nm			6.4mb		
RPV	46.38	88	ePc	00	50.58	0.4	ELT	53.87	312	eP	01	45.00	-2.1									Z	20s	40.00um			6.6Msz	
			ec	00	52.40			1.6s	484.00nm			6.3mb										N	20s	33.50um				
			ed	00	58.53			Z	16s	25.80um		6.4MszX										E	20s	11.00um				
SSK	46.52	87	eP	00	50.96	-0.6				e	02	58.00												ec	02	48.42		
DAU	46.61	76	eP	00	52.12	-0.3				eS	09	10.00												ec	02	50.16		
ARUT	46.88	80	eP	00	54.48	0.1				e	09	36.00												epP	02	56.78	31kmX	
ZAK	47.03	301	iPc	00	56.00	0.9				e	11	29.00												esPd	03	03.07		
	1.6s	916.00nm				6.5mb	LZH	55.46	286	ePc	01	59.32	0.0											e	03	33.00		
Z	24s	74.36um				6.6MszX		1.5s	1481.00nm			6.8mb												ePPP	06	46.00		
N	21s	28.54um					Z	34s	89.40um			6.6MszX												eS	11	26.00		
E	26s	126.00um					N	15s	29.82um												WLVO	62.75	53	P	02	48.97	-0.4	
			e	02	43.00					ec	02	00.64									STCO	62.88	54	P	02	49.79	-0.4	
			eS	07	46.00					ec	02	02.05									GAC	62.90	50	eP	02	49.00	-1.3	
			eSS	10	47.00					epPc	02	08.34	29kmX								HNR	63.32	204	P	02	55.00	1.7	
PEC	47.06	87	eP	00	53.80	-1.9				esP	02	14.13									REY	63.41	11	e(P)	02	55.40	2.0	

15d 22h

DAV	63.54	246	eP	02	54.90	0.0	MOS	69.09	339	iPc	03	31.00	1.3	PPN	73.23	151	iPc	03	55.80	0.9
KMI	63.81	278	ePc	02	55.70	-1.2		3.0s	350.00nm			5.9mb			1.6s	661.70nm			6.4mb	
			ec	02	57.02		Z	24s	75.00um			6.8MszX		BSD	73.29	352	iP	03	54.40	-0.4
			ec	02	58.59		N	25s	73.00um						0.5s	60.00nm			5.9mb	
			epPc	03	04.88	30kmX	E	25s	32.00um					PAE	73.30	151	iPc	03	56.30	1.0
			esPc	03	10.76				e	03	51.00				1.4s	400.80nm			6.2mb	
QIZ	63.85	268	ePc	02	56.52	-0.4			e	06	09.00			EKA	73.60	3	P	03	55.00	-1.6
			ec	02	57.93				ePPP	07	45.00				2.0s	511.60nm			6.2mb	
			ec	02	59.50				eS	12	33.00			ESK	73.61	3	ePc	03	55.96	-0.8
			epPc	03	05.79	30kmX			e	13	16.00				1.5s	300.00nm			6.1mb	
			esPc	03	10.68		VUN	69.12	183	eP	03	20.60	-9.6X			ec	03	59.27		
CTB	64.24	248	eP	03	00.00	0.5	KONO	69.13	356	ePc	03	28.93	-0.9			epPc	04	05.14	29kmX	
TLG	65.05	309	eP	03	03.70	-0.9		0.9s	92.32nm			5.9mb				esP	04	11.18		
	3.5s	370.00nm				5.9mb X				ec	03	31.99		KHT	74.08	274	eP	04	00.00	-0.1
	Z 16s	31.00um				6.6MszX				epPc	03	37.95	29kmX	RAR	74.15	162	P	04	12.00	11.8X
			eS	12	00.00					esP	03	43.25					S	13	24.00	
			e	12	55.00		III	69.17	86	(P)	03	32.50	1.5	DZM	74.29	194	iPc	04	01.60	0.5
			eSS	16	01.00		PPM	69.17	85	(P)	03	32.00	0.6	WIM	74.73	4	eP	04	03.70	0.5
			eSSS	18	58.00		SGS	69.51	62	ePd	03	32.80	0.2	DMU	74.87	5	eP	04	03.70	-0.4
MCWV	65.10	57	P	03	10.00	5.2X	HBF	69.78	62	eP	03	33.88	-0.4	DMU	74.87	5	iP	04	08.90	4.8X
Z	19s	60.43um				6.8Msz	KKM	69.89	254	ePc	03	34.50	-0.7		0.7s	340.00nm			6.5mb	
PRZ	65.13	307	iPd-	03	06.00	0.8		1.3s	173.60nm			6.0mb		WAR	75.43	348	eP	04	05.00	-2.3
	1.2s	310.00nm				6.3mb	OBN	69.91	339	ePc	03	33.70	-1.0			e	04	15.00		
			e	05	31.00			1.4s	810.00nm			6.6mb				e	05	26.00		
			ePPP	07	05.00		Z	18s	32.00um			6.6Msz				e	14	00.00		
			eS	12	00.00		N	18s	28.00um							eS	14	30.00		
KAF	65.13	347	iP	03	03.20	-1.5	E	19s	11.00um					DLF	75.50	5	eP	04	07.40	-0.2
	0.4s	60.40nm				6.1mb				ec	03	34.86		DLF	75.50	5	iP	04	12.40	4.8X
C8M	65.38	45	ePc	03	04.96	-1.5				ec	03	36.68			1.0s	464.00nm			6.4mb	
	2.1s	717.05nm				6.4mb				epPc	03	42.22	27kmX	WME	75.50	3	eP	04	06.20	-1.4
Z	19s	72.28um				6.9Msz				esP	03	48.18		YRH	76.05	4	eP	04	11.10	0.3
			ec	03	06.86					e	06	12.00		BRNL	76.08	352	ePc	04	11.80	0.9
GBTN	65 63	63	eP	03	07.20	-1.1				iPPP	07	54.00		WIT	76.09	357	eP	04	13.00	2.1
BNH	65.73	48	eP	03	06.80	-2.0				iPS	13	33.00		BRN	76.10	353	ePc	04	12.70	1.7
TKL	65.88	63	ePc	03	08.26	-1.6	IISM	70.01	84	(P)	03	39.00	3 2X	ETA	76.11	5	eP	04	11.20	0.1
HNME	66.03	45	eP	03	08.63	-2.0	SHL	70.13	286	iPc	03	35.30	-1.4	NDI	76.25	299	iPc	04	11.50	-0.8
MYNC	66.11	63	P	03	20.00	8.6X				eS	12	48.00			1.2s	468.75nm			6.4mb	
Z	19s	51.14um				6.7Msz	LOE	70.14	273	eP	03	35.50	-1.2	TPX	76.28	83	(P)	04	03.00	-9.6X
NAV	66.31	60	eP	03	11.85	-0.8	TSM	70.29	251	ePc	03	37.90	0.4	ECB	76.41	5	eP	04	13.00	0.2
BLA	66.58	59	eP	03	13.27	-1.1	CHTO	70.83	276	ePc	03	39.93	-0.9		1.1s	479.00nm			6.4mb	
	0 9s	217.39nm				6.3mb		1.1s	146.64nm			6.0mb		HCG	76.59	3	eP	04	14.30	0.4
FRU	66.72	310	eP	03	16.00	0.8				ec	03	41.25		VAL	76.60	7	iP	04	15.10	1.3
			eS	12	16.00					ec	03	42.66			1.0s	5.00nm			4.5mb X	
PUL	66.76	345	(P)	03	14.00	-1.1				epPc	03	49.36	30kmX			S	14	10.00		
	2.0s	570.00nm				6.3mb				esPc	03	54.74		ECP	76.62	5	eP	04	13.90	0.0
			e	03	37.00					eS	12	55.50		DBN	76.85	358	iP	04	18.00	2.8
			e	05	48.00		PMO	71.34	149	iPc	03	44.80	1.1	Z	20s	14.40um			6.3Msz	
			e	07	25.00			1.6s	577.10nm			6.4mb				iS	14	00.00		
			eS	11	59.00		TPT	71.41	148	iPc	03	45.20	1.0			iSS	19	00.00		
GPD	66.86	53	(P)	03	14.26	-1.8		1.3s	355.20nm			6.3mb		HTR	76.85	3	eP	04	14.90	-0.4
TBR	66.89	53	eP	03	14.67	-1.5	VAH	71.64	148	iPc	03	46.50	0.9	WTS	76.90	357	iPd	04	15.80	0.3
NUR	66.90	348	iP	03	14.50	-1.5		1 6s	462.70nm			6.3mb			1.2s	363.60nm			6.3mb	
	0.6s	69.90nm				5.9mb	RUV	71.68	148	iPc	03	46.80	1.0			e	09	08.00		
			eS	12	12.00			1.3s	444.80nm			6.3mb		HAE	76.91	2	eP	04	15.60	0.0
CRNY	67.09	52	(P)	03	15.83	-1.6	OXX	71.85	85	(P)	03	52.00	4.8X		1.3s	131.00nm			5.8mb	
PNJ	67.10	53	iP	03	17.02	-0.5	GUN	71.93	292	P	03	47.80	0.0	CLL	77.22	353	iPc	04	17.30	0.0
GMTN	67.10	53	iP	03	16.70	-0.8	BDT	71.97	275	eP	03	40.40	-7.2X		1.6s	220.00nm			5.9mb	
PAL	67.14	53	eP	03	15.65	-2.2		1.0s	227.70nm			6.1mb		Z	21s	17.00um			6.3Msz	
HRV	67.16	50	ePc	03	16.82	-1.1	EDR	72.03	2	eP	03	47.00	-0.4			i	04	33.00		
	1.1s	155.84nm				6.0mb		1.3s	140.00nm			5.8mb				eS	14	02.00		
Z	21s	44.37um				6.7Msz	MUD	72.34	355	iPc	03	47.70	-1.5			P'P'	31	35.00		
FOO	67.34	358	eP	03	19.15	0.5		1.3s	229.00nm			6.0mb		MTN	77.34	230	eP	04	17.00	-1.4
LSA	67.52	290	ePc	03	21.64	0.7	EDU	72.39	3	eP	03	49.70	0.2		0.7s	280.00nm			6.4mb	
			ec	03	23.13		NST	72.45	273	eP	03	50.00	-0.5	LVV	77.35	345	iP	04	19.00	0.9
			ec	03	24.62		PKI	72.46	292	P	03	51.00	0.1	Z	22s	50.40um			6.8Msz	
			epPc	03	30.24	28kmX	GKN	72.58	293	P	03	51.00	-0.4	N	22s	50.40um				
			esPc	03	36.37		DMN	72.61	292	P	03	52.00	0.3	E	20s	16.30um				
NB2	67.66	355	P	03	19.60	-1.2	EAB	72.70	3	eP	03	51.50	0.1			e	07	13.00		
	0.7s	22.20nm				5.4mb	MNK	72.82	344	eP	03	49.00	-3.1X			eS	14	08.00		
LMN	67.66	44	eP	03	25.00	4.0X		1.6s	443.00nm			6.2mb				e	14	19.00		
PRM	67.82	63	eP	03	20.96	-1.2	Z	24s	41.70um			6.6MszX				ePS	14	50.00		
NAO	67.90	355	P	03	19.47	-2.8				eS	13	16.00				eSS	19	07.00		
CEH	68.28	60	P	03	30.00	5.0X				eSSS	21	00.00		KSP	77.37	350	eP	04	17.60	-0.6
Z	20s	34.76um				6.6Msz	COP	72.91	353	ePc	03	53.50	0.9		1.3s	154.00nm			5.9mb	
JSC	68.29	62	ePc	03	24.07	-1.0		1.2s	312.50nm			6.2mb				id	04	19.30		
UPP	68.34	351	iP	03	23.70	-1.3	Z	21s	16.49um			6.3Msz				eS	14	12.70		
	0.9s	300.00nm				6.4mb				iS	13	17.00				e	25	30.00		
			i	03	25.30		ESY	73.03	2	eP	03	53.10	-0.2	CTA	77.52	214	iPc+	04	18.00	-1.3
			iS	12	22.00			1.3s	72.00nm			5.5mb			1.0s	45.00nm			5.5mb	
			iP'P'	31	37.90		EAU	73.08	3	eP	03	53.70	0.1			i	04	19.00		
HFS	68.40	353	eP	03	23.90	-1.5		1.2s	152.00nm			5.9mb				i	04	30.00		
	0.7s	65.10nm				5.8mb	AFR	73.13	151	iPc	03	55.30	1 0			e	13	45.00		
Z	19s	6922.00um				8.9MszX		1.2s	462.90nm			6.4mb				eSKS	14	00.00		
			LR	27	03.00		EBL	73.16	3	eP	03	53.70	-0.4	CTAO	77.52	214	ePc	04	18.59	-0.7
ASK	68.45	358	eP	03	25.82	0.2	PPT	73.22	151	iPc	03	55.70	0.9		1.2s	136.64nm			5.9mb	
BER	68.55	358	eP	03	27.83	1.6		1.7s	585.20nm			6.3mb				ec	04	20.41		
EGD	68.67	358	eP	03	27.74	0.8	Z	34s	******um			9.0MszX				e	04	26.79		

15d 22h

BRG 77.57 352 iP 04 18.40 -0.8
1.4s 290.00nm 6.1mb
i 04 27.60
eS 14 08.00
eP'P' 31 19.00
OJC 77.57 348 iPc 04 19.10 -0.2
1.1s 202.00nm 6.1mb
Z 20s 6.20um 5.9Msz
N 20s 5.90um
i 04 20.50
iS 14 34.60
MAK 77.83 327 iP+ 04 21.00 0.3
Z 19s 63.50um 7.0Msz
N 19s 62.00um
E 19s 56.00um
i 04 30.00
eS 14 16.00
e 14 46.00
ePS 15 09.00
KAT 77.84 319 iP+ 04 22.50 1 6
i 04 26.50
e 14 47.00
eS 15 21.00
RAC 77.91 349 eP 04 22.00 0.9
BNS 77.92 356 iPKPd 04 21.30 0.2
1.3s 300.00nm 6.2mb
Z 27s 36.00um 6.6MszX
e 14 31.00
i 14 44.00
MOX 77.98 353 eP 04 21.40 -0.1
1.6s 268.00nm 6.0mb
Z 18s 16.00um 6.4Msz
eS 14 19.00
ASH 78.03 317 P 04 23.00 1.0
1 3s 300.00nm 6.2mb
N 18s 48.94um
E 17s 45.00um
e 04 33.00
PPP 09 06.00
eS 14 10.00
e 14 26.00
e 14 42.00
PS 14 52.00
SS 19 13.00
GRO 78.11 329 iPd- 04 23.00 0.7
1.5s 1200.00nm 6.7mb
Z 18s 33.00um 6.7Msz
N 20s 76.00um
E 20s 50 00um
i 07 24.00
iPS 15 20.00
ENN 78.16 357 iPd 04 23.80 1.3
0 8s 190.50nm 6.2mb
e 05 06.00
e 09 13.00
UCC 78.17 358 P+ 04 22.00 -0.5
e- 22 29.00
MEM 78.32 357 iPd 04 23.63 0.3
1.2s 251.00nm 6.1mb
PYA 78.33 331 iPc+ 04 23.00 -0.6
1.0s 800.00nm 6.7mb
Z 24s 63.00um 6.9MszX
i 04 33.00
eS 14 17.00
iPS 14 56.00
PRU 78.39 351 P 04 23.50 -0.3
1.6s 63.60nm 5.4mb
Z 23s 99.90um 7.1MszX
N 22s 73.00um
E 21s 61.50um
e 04 32.00
SKS 14 30.40
eSS 19 23.00
SNF 78.46 358 iPc 04 24.00 -0.1
KIV 78.51 331 ePc 04 24.69 0.0
1.1s 524.00nm 6.5mb
Z 26s 51.50um 6.7MszX
ec 04 26.01
ec 04 27.33
epPc 04 33.79 29kmX
esPc 04 39.25
e 14 25.60
ePS 15 00.40
SPC 78.52 347 iP 04 24.30 -0.5
TNS 78.60 355 ePc 04 25.30 0.3
CPZ 78.68 5 eP 04 25.60 0.3
UZH 78.77 346 iPc+ 04 26.50 0.6

1.4s 400.00nm 6.2mb
Z 20s 39.60um 6.7Msz
N 20s 33.00um
E 20s 20.70um
i 04 35.50
i 07 31.00
iPPP 09 24.00
eS 14 26.00
e 14 42.00
i 15 00.00
iSP 15 16.00
DOU 78.87 358 P 04 26.00 -0.4
MAIO 78.92 316 eP 04 27.00 -0.1
1.0s 34.00nm 5.3mb
eS 14 54.00
GRF 78.96 353 ePc 04 27.10 0.2
1.4s 456.00nm 6.3mb
Z 23s 27.00um 6.5MszX
e 04 36.20
e 04 50.50
e(S) 14 29.30
KIS 79.17 341 iPc+ 04 28.00 0.0
1.5s 1500.00nm 6.8mb
iS 14 26.00
i 14 36.00
iPS 15 05.00
ANN 79.20 335 eP 04 20.00 -8.3X
1.7s 200.00nm 5.8mb
eS 14 36.00
IAS 79.26 342 eP 04 29.00 0.5
WLF 79.26 357 iPc 04 28.68 0.2
BAK 79.28 324 iPc 04 32.00 3.3X
eS 14 40.00
KHC 79.33 352 P 04 29.20 0.2
1.1s 125.00nm 5.8mb
Z 18s 24.00um 6.6Msz
N 22s 18.00um
E 22s 16.00um
e 05 01.00
e 06 07.00
eSKS 14 30.00
eSS 20 00.00
e 25 38.00
BMR 79.52 345 ePd 04 32.00 2.1
SHE 79.52 325 iPc+ 04 31.50 1.5
1.0s 400.00nm 6.4mb
Z 18s 25.00um 6.6Msz
N 18s 26.00um
E 20s 40.00um
i 07 34.00
iS 14 36.00
iPS 15 32.00
GEC2 79.60 352 Pd 04 30.30 -0.2
1.2s 98.43nm 5.7mb
e 04 40.90
e 04 45.10
e 15 05.80
e 15 16.70
e 15 22.10
e 15 29.80
CEI 79.67 346 eP 04 33.00 2.3
PTT 79.73 343 eP 04 31.00 -0.1
SOC 79.73 333 iPc+ 04 32.00 0.8
3.0s 1560.00nm 6.5mb
Z 22s 68.00um 6.9Msz
N 22s 35.00um
E 22s 9.50um
eS 14 44.00
ePS 15 26.00
MTA 79.88 328 iPc+ 04 31.80 -0.1
1.0s 1500.00nm 6.9mb
i 04 45.80
ePS 14 27.00
i 14 41.80
ZST 79.89 349 eP 04 32.20 0.2
1.2s 245.50nm 6.1mb
SIM 79.96 337 eP 04 34.00 1.7
eS 14 32.00
PPE 80.18 342 iPc 04 35.00 1.5
FLN 80.23 1 eP 04 33.30 -0.4
1.0s 416.00nm 6.4mb
Z 21s 30.00um 6.6Msz
KMR 80.34 351 iP+ 04 35.70 1.3
BUD 80.36 348 iP 04 34.90 0.5
IPM 80.39 265 ePd 04 34.90 -0.2
LDF 80.41 1 eP 04 34.10 -0.6
0 6s 163.05nm 6.2mb

OIS 80.42 219 eP 04 36.00 0.9
QUE 80.46 307 eP 04 36.00 0.5
eS 15 18.80
SOP 80.46 350 iPc 04 35.70 0.7
CDF 80.46 356 eP 04 34.80 -0.3
0.6s 53.20nm 5.7mb
FUR 80.48 353 iPd 04 35.70 0.6
Z 23s 29.00um 6.6MszX
eS 14 40.80
GRR 80.60 1 eP 04 35.50 -0.2
0.6s 194.80nm 6.3mb
VRI 80.69 342 iPc 04 37.50 1.2
BHG 80.79 352 eP 04 37.20 0.4
1.5s 190.00nm 5.9mb
CVO 80.84 343 iPc 04 38.50 1.4
HAU 80.91 357 eP 04 37.20 -0.2
0.9s 153.95nm 6.0mb
Z 23s 26.00um 6.5MszX
LPF 80.95 2 eP 04 37.60 0.0
0.9s 318.40nm 6.3mb
BRD 80.97 342 eP 04 35.00 -2.7
BSF 81.06 356 eP 04 37.90 -0.4
0.6s 64.55nm 5.8mb
CFR 81.07 341 eP 04 38.00 -0.2
MLR 81.20 343 iPc 04 30.00 -9.1X
WATA 81.28 353 iPc 04 39.30 -0.2
i 04 41.10
i 04 49.00
MOTA 81.30 353 iPc 04 39.10 -0.6
1.1s 316.00nm 6.2mb
i 04 41.00
GRS 81.33 326 iPc 04 40.00 0.1
1.3s 480.00nm 6.3mb
Z 20s 22.80um 6.5Msz
N 18s 16.40um
E 18s 24.00um
eS 14 54.00
ERE 81.34 328 iP 04 41.00 1.1
Z 19s 30.00um 6.7Msz
i 07 51.00
WTTA 81.35 353 iPc 04 39.90 0.0
1.2s 418.00nm 6.3mb
i 04 41.70
DEV 81.35 345 ePd 04 41.00 1.3
KBA 81.39 352 iPc 04 40.40 0.3
1.0s 574.00nm 6.5mb
i 04 42.40
i 14 52.80
i 15 00.50
SOTA 81.42 353 iPc 04 40.10 -0.1
1.3s 423.00nm 6.3mb
i 04 41.90
i 04 49.60
ISR 81.43 342 ePd 04 41.50 1.3
CMP 81.58 343 iPc 04 43.00 2.0
MTUR 81.62 343 ePd 04 43.50 2.3
LOR 81.72 358 eP 04 41.50 -0.1
1.3s 576.20nm 6.4mb
Z 22s 23.00um 6.5Msz
HYF 81.73 359 eP 04 41.90 0.2
OGA 81.78 353 eP 04 43.00 0.8
KHKI 81.81 246 eP 04 40.00 -2.5
e 07 16.50
BZS 81.82 346 eP 04 40.00 -2.1
GZR 81.85 345 iPc 04 42.50 0.1
FVI 81.92 352 P 04 42.70 0.1
SSF 81.93 358 eP 04 42.70 0.0
1.1s 402.45nm 6.4mb
LBF 82.00 358 eP 04 42.80 -0.3
1.2s 181.50nm 6.0mb
RBL 82.00 351 P 04 42.70 -0.5
WB2 82.06 224 iPd 04 42.30 -1.3
1.1s 27.30nm 5.2mb
WRA 82.07 224 P 04 42.50 -1.2
0.6s 8.90nm 5.0mb X
AVF 82.20 359 eP 04 44.10 0.0
1.2s 361.80nm 6.3mb
BUC 82.21 342 iPc 04 44.00 -0.2
BUC1 82.29 342 iPc 04 46.00 1.4
PTJ 82.29 350 eP 04 44.40 -0.3
DRA 82.29 344 ePc 04 47.00 2.4
LJU 82.30 351 eP 04 44.50 -0.2
eS 15 07.00
SMF 82.34 358 eP 04 44.70 -0.1
1.1s 435.65nm 6.4mb
BRS 82.36 205 iPKP 04 47.00 1.9
0.8s 5.00nm 4.6mb X

15d 22h

	Z 17s	65.00um			7.1MszX	PVY	85.02	346	iPd	04	59.11	0.4	ETER	86.70	359	iPc	05	07.89	1.0
		iSKS	15	03.00		EYL	85.04	338	iP	04	58.10	-0.7	RDP	86.72	351	P	05	07.80	0.7
ZAG	82.37	350 iPc	04	46.10	1.1	ANTO	85.07	336	ePc	05	09.37	10.4X	EGRA	86.80	1	iPc	05	08.05	0.7
VOY	82.37	351 iP	04	44.90	-0.3	BNN	85.21	334	iP	05	00.20	0.5	BAI	86.89	348	P	05	09.00	1.2
		eS	15	09.00		YLV	85.22	339	eP	04	58.50	-1.2	KZN	86.97	344	iPd	05	08.00	-0.3
MFF	82.40	1 eP	04	45.30	0.2	CDR	85.25	357	ePc	05	00.50	0.8	PAIG	87.00	343	eP	05	05.64	-2.7
	0.7s	153.45nm			6.2mb				i	05	04.80		ADAT	87.02	333	eP	05	06.20	-2.3
BGF	82.44	359 eP	04	45.20	-0.2				i	05	09.70		LIT	87.05	344	eP	05	08.72	0.1
	0.6s	80.45nm			6.0mb	LEM	85.26	253	ePc	05	00.60	-0 3	RFI	87.05	350	P	05	10.14	1.6
SSR	82.53	346 ePd	04	54.00	8.1X				eS	15	27.00			1.3s	1081.80nm				6.9mb
CTI	82.55	353 P	04	46.00	-0.1				eLR	28	00.00		BRT	87.09	348	P	05	08.80	0.0
VVI	82.55	352 P	04	46.40	0.4	GPA	85.27	338	eP	04	58.20	-1.7		1.8s	1102.40nm				6.8mb
CEY	82.61	351 eP	04	46.00	-0.3	TTG	85.28	347	iPd	05	00.14	0.3	PRK	87.16	341	eP	05	07.50	-1.6
	1.1s	220.00nm			6.1mb	FRF	85.33	356	eP	05	00.10	0.0	TPE	87.26	346	eP	05	12.50	2.9X
TAB	82.61	326 iPc+	04	48.50	1.9	HCY	85.37	347	iPd	05	00.08	-0.2	KHL	87.33	338	iP	05	11.00	0.9
TRI	82.70	351 eP	04	46.00	-0.7	SKO	85.40	345	eP	05	00.50	0.0	LCI	87.52	347	P	05	11.00	0.1
		ePcP	05	00.00			1.2s	687.00nm			6.7mb		SGO	87.64	349	P	05	11.00	-0.4
		ePPP	10	05.00			Z 25s	30.46um			6.6MszX		SRN	87.67	346	eP	05	11.50	-0.1
		eS	15	09.60					i	05	02.00		IZM	87.76	340	eP	05	10.00	-2.2
		esP	16	04.00					i	05	10.20		KEK	87.86	346	iPd	05	12.50	-0.1
		eSPP	16	44.00					i	05	15.00		BCK	87.89	337	eP	05	12.10	-0.7
		eSS	20	32.00					iS	15	28.00		GBA	87.95	289	P	05	14.00	0.8
		eSSS	24	20.00					i	16	35.00		IGT	87.96	345	eP	05	12.52	-0.5
		e	27	44.00					i	21	41.00		MGR	88.02	349	P	05	12.70	-0.6
		e	30	16.00					i	32	46.00		AGG	88.12	344	eP	05	14.12	0.3
TCF	82.72	359 eP	04	46.70	-0.1				i	33	48.00		ETOR	88.14	3	iPd	05	13.66	-0.3
	0.7s	103.20nm			6.0mb				LR	41	42.00		EROQ	88.18	1	iPd	05	13.57	-0.5
BBJ	82.73	70 ePd	04	49.02	1.7	ASS	85.42	352	P	05	00.80	0.2	EBR	88.18	1	eP	05	13.00	-1.0
VBY	82.76	350 eP	04	47.20	0.2	LRG	85.45	356	eP	05	00.90	0.2				eS	15	46.00	
LSF	82.76	360 eP	04	46.90	-0.1	RDO	85.47	342	iPd	05	01.50	0.7	GUD	88.24	4	iPd	05	14.13	-0.4
	0.5s	125.35nm			6.3mb	BDV	85.49	347	eP	05	00.58	-0.3	CSI	88.29	349	P	05	14.20	-0.4
MAF	82.78	359 eP	04	47.40	0.2	ASPA	85.54	223	iPc	05	00.50	-0.8	CIN	88.35	339	eP	05	14.00	-0.9
	0.6s	94.50nm			6.1mb		1.3s	52.30nm			5.6mb		TDS	88.40	348	P	05	14.80	-0.3
RIY	83 01	351 iPd	04	48.20	-0.1				eS	15	22.90		ROI	88.46	348	P	05	15.40	-0.1
SAL	83.07	354 P	04	49.00	0.4				eSKKP	26	13.90		EPLA	88.71	6	iPd	05	16.59	-0.1
RSL	83.21	356 P	04	49.82	0.2	ARMA	85.54	205	iPc	05	02.00	0.8	ELL	88.74	337	eP	05	17.00	0.0
ORO	83.21	355 P	04	50.10	0.6		0.7s	93.00nm			6.1mb		CZI	88.86	349	P	05	15.90	-1.4
STH	83 23	70 ePd	04	50.61	0 7	LMR	85.57	356	eP	05	01.30	0.1	ATH	88.89	342	eP	05	18.00	0.5
GWJ	83.28	70 ePd	04	51.74	1.5	ALN	85.61	341	eP	05	01.64	0.1				eS	16	08.00	
PCJ	83.29	70 ePd	04	53.09	2.9X	SDA	85.62	347	eP	05	01.00	-0.5	RIV	88.89	205	iPd	05	24.60	7.4X
HOJ	83.33	70 ePd	04	52.63	2.3	KER	85.64	324	eP	05	03.00	1.0				e	16	08.00	
LPL	83 38	356 eP	04	51.30	0.8	STS	85.73	7	iPc	05	02.71	0.6	PORP	89.07	62	P	05	18.50	-0.1
	0 5s	41.25nm			5.8mb	ULC	85.74	347	iPd	05	01.91	-0.3	CLLP	89.08	62	P	05	19.00	0.4
LPG	83.40	356 eP	04	51.50	0.8	BNT	85.74	340	iP	05	01.90	-0.3	GRI	89.22	348	P	05	18.28	-0.8
	0.7s	90.40nm			6.0mb	KCT	85.75	340	eP	05	02.40	0.1		0.7s	257.60nm				6.7mb
KAS	83.40	336 iPd	04	51.80	1.3	KGT	85.78	340	eP	05	00.00	-2.4	ESEL	89.23	359	P	05	20.45	1.4
LSD	83.42	356 P	04	51.67	0.9	ELYF	85.82	2	P	05	02.72	0.1	VLS	89.24	345	eP	05	19.00	-0.2
SSB	83.69	358 P	04	52.29	0.4	OGE	85.83	1	P	05	03.11	0.5	PAB	89.32	4	ePc	05	19.50	-0.1
RJF	83.70	360 eP	04	51.80	-0.1	PHP	85.84	346	iPc	05	03.30	0.6		1.9s	443.24nm				6.4mb
	1.2s	465.35nm			6.5mb	MADF	85.84	2	P	05	03.14	0.5				ec	05	20.99	
	Z 22s	260.00um			7.6Msz	SRS	85.86	343	eP	05	02.52	-0.3				epPd	05	28.11	27kmX
RSP	83.72	356 P	04	53.05	0.9	BOH	85.88	2	P	05	03.72	0.7				esPd	05	34.23	
RRL	83.97	356 P	04	55.29	1.7	ATE	85.91	1	P	05	05.69	2.7	FAM	89.33	334	eP	05	21.50	1.9
BOB	83.98	354 P	04	54.61	1.2	ESCF	85.91	1	P	05	05.82	2.8	ECHE	89.39	2	iPc	05	20.24	0.3
BHB	84.03	356 P	04	53.96	0.4	KNT	85.94	344	eP	05	03.25	0.0	KSL	89.41	337	eP	05	19.50	-0.5
CAF	84.08	359 eP	04	54.20	0.4	JAU	85.96	1	P	05	03.72	0.3	CSS	89.55	334	eP	05	20.00	-0.7
	1.1s	421.95nm			6.5mb	ISSF	85.96	2	P	05	04.35	1.0	BHL	89.88	332	P	05	21.00	-1.4
PCP	84.26	355 P	04	54.33	-0 5	EPF	85.97	1	eP	05	02.80	-0.6				PP	08	56.00	
HYB	84.29	291 iPc	04	55.00	-0 3		0.6s	59.15nm			6.0mb					SKS	15	51.00	
	1.0s	555.00nm			6.7mb	LESF	85.98	0	P	05	04.58	1.3	PPCY	89.89	335	eP	05	22.00	-0.2
		eSKS	15	16.00		LACI	86.00	346	eP	05	03.10	-0.3	GMB	89.93	349	P	05	21.30	-1.3
LPO	84.33	0 eP	04	55.10	0.1	MTHF	86.06	359	P	05	04.76	1.0		1.1s	191.80nm				6.3mb
	1.0s	540.80nm			6.7mb	AQU	86.06	351	P	05	04.10	0.3	STK	89.97	213	iPd	05	22.50	0.2
DOI	84.37	356 P	04	54.90	-0.5	LHE	86.08	1	P	05	04.97	1.0		1.1s	26.30nm				5.4mb
PZZ	84.37	356 P	04	55.47	0.0	MNS	86.10	352	P	05	03.20	-0.8				eS	16	08.10	
DMK	84.37	340 iP	04	55.40	0.1	POO	86.13	295	iPd	05	07.80	3.3X				eSKKP	26	35.40	
PLE	84.38	347 iPd	04	56.05	0.6				iS	15	36.00		SOI	90.00	348	P	05	21.50	-1.2
CKI	84.39	355 P	04	55.70	0.3	GRBF	86.17	360	P	05	04.75	0.4	MBL	90.02	235	eP	05	21.00	-1.9
ROB	84.54	355 P	04	55.98	-0.2	SOH	86.19	343	eP	05	04.04	-0.5		0.7s	49.00nm				5.9mb
RSM	84.59	352 P	04	57.80	1.5	PGF	86.22	354	eP	05	04.40	-0.3	BWA	90.20	207	eP	05	25.60	2.2
BDI	84.61	353 P	04	56.40	-0.2		0.5s	225.05nm			6.7mb					e	05	39.20	
FIN	84.61	355 P	04	56.39	-0.1	GRG	86.23	344	iP	05	05.85	1.2	VLI	90.25	343	eP	05	22.50	-1.4
ENR	84.64	356 P	04	55.79	-0.9	TIR	86.25	346	eP	05	05.50	0.8	EVIA	90.30	3	iPd	05	24.15	-0.1
SFI	84.65	352 P	04	57.90	1.3				iS	15	32.00		ERC	90.42	351	P	05	25.54	0.8
PGD	84.71	352 P	04	58.38	1.2	ERUA	86.32	6	iPd	05	05.84	0.8		1.5s	220.70nm				6.2mb
ISK	84.82	339 eP	04	57.00	-0.5	ECRI	86.34	3	iPd	05	05.52	0.3	HRI	90.45	332	eP	05	24.90	-0.1
FIR	84.84	353 iPc	04	59.00	1.4	GAZ	86.38	332	iP	05	05.60	0.2	ACU	90.48	1	iPd	05	24.67	-0.3
		iS	15	20.00		AZI	86.42	351	P	05	05.70	0 2	KOD	90.59	287	eP	05	27.00	0.9
CTT	84.88	340 iP	04	56.90	-1.0	THE	86.45	344	iP	05	09.76	4.1X				eS	15	08.00	
HRT	84.91	339 iP	04	57.60	-0.5	ALT	86.49	338	eP	05	06.20	0.1	CVT	90.76	351	P	05	27.28	1.1
BRY	84.92	347 iPd	04	57.87	-0.4	OUR	86.55	343	eP	05	05.68	-0.5		1.0s	482.50nm				6.8mb
IMI	84.93	355 P	04	58.22	0.1	FNA	86.57	345	eP	05	06.04	-0.3	CNB	90.77	206	eP	05	31.00	4.9X
CRE	84.93	352 P	04	58.90	0.7	EZN	86.59	341	eP	05	05.20	-1.1		1.0s	82.00nm				6.0mb
NKY	84.94	347 iPd	04	58.31	0.0	DUI	86.64	350	P	05	07.05	0.3	CAN	90.88	206	eP	05	27.10	0.6
ARV	84.97	352 P	04	58.80	0.5		0.4s	134.50nm			6.5mb					e	05	43.00	
SBF	85.00	356 eP	04	58.40	-0.1	SDI	86.66	351	P	05	06.70	-0.1	WARB	90.94	227	eP	05	24.50	-2.5
	0.7s	437.45nm			6.8mb	RMP	86.67	352	P	05	07.40	0.6	EHOR	90.99	5	iPd	05	27.17	-0.1

15d 22h

FAI	91.06	350	P	05	30.20	2.6	RTRS	124.63	96	e(PKP)	11	21.50	-1.2	SDN	11.58	62	eP	05	56.50	-0.1
MEU	91.09	349	P	05	28.37	0.5	RTBS	125.66	98	ePKPc	11	25.20	0.5	SVW	16.08	43	(P)	06	57.76	2.0
	1 0s	55.10nm			5.9mb		PEL	125.90	100	ePKP	11	25.00	-0.2		1.3s	149.18nm			5.0mb	
EALH	91.11	2	iPc	05	28.47	0.6	RTCB	125.94	97	iPKPd	11	26.00	0.6	KDC	16.44	56	eP	06	59.10	-1.1
EHUE	91.12	3	iPd	05	27.90	-0.1	RTCV	126.36	97	ePKPd	11	26.00	-0.2	TTA	16.86	37	eP	07	09.40	3.8X
NPS	91.13	340	eP	05	27.00	-1.0	CFA	126.37	97	ePKPc	11	25.80	-0.4	SLKM	18.29	49	eP	07	23.92	0.5
EVAL	91.13	6	iPd	05	27.41	-0.5	RTPR	126.56	94	ePKPd	11	26.40	-0.1	PMS	18.83	47	eP	07	30.00	0.0
PZI	91.17	349	P	05	27.28	-0.9	MDZ	126.86	98	ePKP	11	28.10	1.0	IMA	19.52	31	eP	07	37.86	-0.2
	0.9s	111.60nm			6.2mb		BAO	127.04	66	ePKP	11	27.20	-0.7		1.3s	29.81nm			4.4mb	
VAM	91.28	341	eP	05	30.00	1.3				e	11	39.50		FBA	20.99	38	eP	07	53.90	0.7
ELUO	91.30	4	iPc	05	29.45	0.6				i	13	32.80		INK	27.51	35	eP	08	56.50	0.8
DHR	91.56	317	eP	05	25.00	-5.0X	TCA	128.47	94	ePKPd	11	30.20	0.0		1.0s	8.00nm			4.3mb	
ECOG	91.62	4	iPc	05	30.16	-0.2	SBA	129.27	184	iPKPd	11	31.50	1 2	NEW	38.82	69	eP	10	34.70	0.7
EPRU	91.85	5	iPc	05	31.68	0.4	PPD	130.05	74	ePKP	11	33.30	-0.1		1.0s	57.00nm			5.3mb	
LIJA	91.90	5	iP	05	31.00	-0.6	VAO	133.39	71	ePKP	11	38.20	-1.6	TNP	44.33	82	(P)	11	18.00	-1.5
GIBL	91.94	6	eP	05	34.00	2.3	LPA	135.01	92	ePKP+	11	42.00	-0.4		0.6s	5.37nm			4.6mb	
ENIJ	91.97	3	iPd	05	31.66	-0.2		Z 21s		27.24um			6.9Msz	HVU	44.86	75	eP	11	24.29	0.6
NEV	92.03	59	eP	05	33.53	1.2				iPP	14	24.00		FCC	45.97	46	eP	11	38.50	6.5X
EGUA	92.06	4	iPd	05	31.66	-0 6	MTD	137.92	314	ePKP	11	50.40	1.8	BW06	46.23	72	(P)	11	35.19	0.6
ALJ	92.11	6	iP	05	34.00	1.4				i	12	08.00			0.7s	31.36nm			5.4mb	
MAL	92.13	5	iPc	05	23.00	-9.5X				i	14	48.00		RSSD	48.70	68	(P)	11	53.31	-0.6
			iPP	08	48.00		LSZ	138.05	319	ePKP	11	43.00	-5.8X		0.7s	21.04nm			5.3mb	
			iS	16	30.00					i	11	50.10		GLA	49.04	86	eP	11	57.20	0.8
DSI	92.14	331	eP	05	31.70	-1.0				i	14	36.00		PV10	49.20	77	eP	11	58.57	0.7
SFS	92.29	6	eP	05	34.00	0.8				i	15	47.00		ULM	49.66	57	eP	12	06.00	5.1X
EJIF	92.34	5	iPd	05	34.07	0.5	SPA	141.18	180	iPKPc	11	44.90	-8.1X	FRB	53.09	32	eP	12	25.50	-1.1
CNIL	92.39	6	iP	05	34.00	0.3		0.6s	24.80nm						0.5s	4.00nm			4.6mb	
BPA	92.49	59	eP	05	33.00	-1.5		Z 20s		2.16um			5.9Msz	ACO	56.27	72	iPc	12	50.60	0.4
MGH	92.57	59	eP	05	35.00	0.1				i	13	13.70		FVM	60.50	65	eP	13	18.26	-1.4
PLAT	92.66	6	iP	05	36.00	1.0	BUL	142.20	315	iPKPd	11	50.00	-6.2X		0.8s	17.06nm			5.2mb	
OJEN	92.69	6	iP	05	37.00	1 8		0.9s	35.71nm					EEO	60.54	51	eP	13	23.50	3.7X
PAG	93.42	59	eP	05	38.00	-0.9	AIA	144.66	138	e(PKP)	12	02.00	3.2X	ELC	61.67	65	eP	13	26.32	-1 3
ADE	93.77	214	e(P)	05	41.00	1.2	BFT	146.30	309	iPKPd	12	05.00	1.9	GAC	62.95	50	eP	13	43.50	7 5X
TOV	93.92	69	eP	05	42.50	1 4		1.5s	400.00nm					KAF	65.29	347	iP	13	49.10	-1.9
			iPP	05	52.10		MAW	146.53	218	iPKPd	12	02.80	0.9		0.4s	7.10nm			5.1mb	
MJMA	93.93	321	eP	05	39.67	-1 4		1.1s	380.43nm					GBTN	65.66	63	eP	13	53.18	-0.6
MBH	93.97	331	eP	05	40.30	-0.9	CRZF	146.96	258	iPKPc	12	09.00	5.8X	TKL	65.91	63	eP	13	54.71	-0.6
TOO	93.98	208	eP	05	40.40	-0.3				ePKS	15	36.00		NUR	67.06	348	iP	14	00.60	-1.7
	0.7s	31.00nm			5 8mb					eSKS	19	06.00			0.4s	4.10nm			4.9mb	
FORT	94.25	224	eP	05	41.50	-0 6				eSS	38	45.00		LMN	67.74	44	eP	14	12.00	5 2X
HOL	94.39	331	eP	05	36.67	-6 4X				eSSP	40	09.00		NB2	67.81	355	P	14	05.20	-1.9
RYD	94.42	320	eP	05	43.00	-0 3	SLR	147.19	311	iPKPc	12	03.10	-1.4		0.8s	5 10nm			4.7mb	
FDF	94.78	59	eP	05	46.10	1.0		1.0s	700.00nm					JSC	68.32	62	eP	14	10.05	-0 5
CRM	94.89	59	eP	05	45.80	0 3		Z 22s		57.50um			7.3Msz	UPP	68.50	351	iP	14	09.70	-1.6
BIM	95 00	59	eP	05	44.70	-1.4	KSR	147.94	313	iPKPd	12	04.50	-1.2	HFS	68.56	353	eP	14	09.80	-1 8
CAR	95.00	66	iPd	05	48.00	1 8		1.0s	1090.00nm						0.5s	5.80nm			4.9mb	
MVM	95.06	59	eP	05	45.90	-0 5	PRY	148.58	311	ePKP	12	06.20	-0.5	DMU	75.02	5	eP	14	50.60	0.4
MEEK	95.18	233	eP	05	45.00	-1.5		1.2s	260.00nm					DLF	75.64	5	eP	14	54.40	0.7
IFR	95.28	5	iP	05	48.50	1.1	WIN	148.75	331	ePKP	12	09.20	2.1	ENN	78.32	357	eP	15	09.00	0 4
BOG	95.46	76	ePKP	05	50.00	1.4		0.7s	181.00nm						0.9s	22.40nm			5.2mb	
SLB	95.59	60	eP	05	51.48	2.7		Z 20s		22.60um			7.0Msz	SNF	78.62	358	P	15	11.00	0.7
SVV	95 91	60	eP	05	52.46	2.2	BFS	148.88	312	iPKPc	12	12.10	5.0X	DOU	79.02	358	P	15	12.90	0.4
			e	05	53.98			0.9s	483.00nm					GRF	79.12	354	eP	15	13.60	0.5
SVB	95.93	60	eP	05	53.08	2.8	SEK	149.67	309	ePKP	12	11.20	2.9X		1.2s	23.00nm			5.1mb	
PSO	96.15	80	ePKP	05	54.00	2.2		0.8s	386.00nm					WLF	79.41	357	P	15	16.00	1 4
TIO	97.71	7	iP	05	58.50	0.1	SWZ	149.79	314	ePKP	12	12.90	4.4X	ZST	80.05	349	iP	15	18.20	0.1
TCE	97.77	62	eP	06	05.33	6.7X		1.0s	400.00nm						0.7s	11.90nm			5.0mb	
TRN	98.00	62	eP	06	06.41	6.8X	BOSA	150.97	312	ePKPc	12	11.20	1.2	FLN	80.38	1	eP	15	19.40	-0.4
TPP	98 25	62	eP	06	04.75	4.0X				ePKPbc	12	18.32			0.6s	12.55nm			5.1mb	
TBT	98.51	17	ePDIFc	06	02.09	0.3				ePKPab	12	23.29		LDF	80.56	1	eP	15	20.30	-0.5
			ec	06	03.41		BLF	151.02	311	ePKP	12	13.60	3.3X		0.5s	11.10nm			5.1mb	
NWAO	101 02	230	(Pdiff	06	12.43	-0.4		0.8s	253.00nm					CDF	80.62	356	eP	15	21.10	-0.2
			ec	06	13.75		FRS	151.97	311	ePKP	12	14.00	2.5		0.5s	2.60nm			4.5mb	
			epPd	06	21.29			1.1s	580.00nm					GRR	80.75	2	eP	15	21.70	-0.1
			ec	06	25.18					i	12	27.00			0.5s	10.55nm			5.1mb	
KDS	115.25	15	ePKP	11	06.50	1 3	GRM	154.25	305	ePKP	12	20.00	5.4X	CVO	81.00	343	ePc	15	25.00	1.8
ZOBO	115.35	84	ePdiff	07	32.00	14.3X		0.7s	237.00nm					HAU	81.06	357	eP	15	23.40	-0 1
ZOBO	115.35	84	PKP	11	08.00	1.9		Z 20s		29.30um			7.1Msz		0.6s	5.25nm			4.7mb	
LPB	115.57	85	PKP	10	55.00	-11.3X				i	12	28.50		LPF	81.11	2	eP	15	23.70	0.0
CNCB	115 85	85	ePKP	11	02.00	-5.0X	SUR	156.24	316	ePKP	12	32.00	14.4X	BSF	81.22	356	eP	15	24.10	-0.3
DRV	121.81	198	ePdiff	07	57.00	12.5X		1.5s	200.00nm						0.6s	4.05nm			4.6mb	
DRV	121.81	198	PKP	11	24.00	7.9X		Z 22s		75.40um			7.5Msz	WATA	81.43	353	iPd	15	26.00	0.4
			PP	13	00.00		CER	157.74	317	ePKP	12	20.50	1.3	MOTA	81.46	353	iPc	15	24.70	-1.1
			SKS	18	24.00			1.2s	264.00nm						0.9s	15.50nm			5.0mb	
			SP	22	50.00		SNA	160.92	176	e(PKP)	12	21.40	0.0	WTTA	81.50	353	iPc	15	26.20	0.2
			SS	29	45.00			0.9s	53.00nm						0.9s	21.40nm			5.1mb	
NAI	121.84	317	ePKP	11	21.00	2.9X		S.D. = 1.1 on 661 of 725 obs.						KBA	81.54	352	iPd	15	26.50	0.3
TIC	121.96	7	PKPd	11	17.40	-0.6	----------								0.9s	34.00nm			5.4mb	
KIC	122.26	7	PKPd	11	18.00	-0.6		MAY 15, 1993 22h 03m 10.79± 0.34s								id		15	27.00	
	0.6s	30.50nm						51.222 N ± 7.4km 178.589 W ± 4.1km						LOR	81.87	358	eP	15	27.50	-0.2
LIC	122.37	7	PKPd	11	18.20	-0.6		DEPTH = 33.0km (normal)						HYF	81.89	359	eP	15	28.00	0.2
	Z 22s	21.20um			6.7Msz			5.0mb (45 obs.)						WRA	81.99	224	P	15	29.00	0.4
BCAO	122.49	340	iPKPc	11	19.00	-0.1		ANDREANOF ISLANDS, ALEUTIAN IS. (7)							0.7s	1.40nm			4.1mb	
	0.4s	15 00nm						ML 5.2 (PMR).						SSF	82.08	359	eP	15	28.80	0.0
			ic	12	51.90										0.8s	15.05nm			5.1mb	
			ic	13	01.90		ADK	1.36	60	eP	03	35.11	1.5	LBF	82.15	358	eP	15	28.90	-0.3
FSA	123.91	90	ePKP	11	22.00	0.6	SMY	4.76	291	eP	04	23.75	1.7	AVF	82.35	359	eP	15	30.30	0.1

15d 22h

	0.7s	10.15nm		5.0mb		CP2	17.53	45 eP	17 44.26	2.4			0.5s	1.20nm		4.2mb
SMF	82.49	358 eP	15 31.10	0.1		CRP	17.57	45 eP	17 44.25	1.9		UPP	68.42	351 iP	24 37.40	-1.1
	0.7s	13.80nm		5.1mb		SLKM	18.20	49 P	17 49.50	-0.4		HFS	68.47	353 eP	24 37.00	-1.8
MFF	82.55	1 eP	15 31.40	0.2		PMR	19.05	46 eP	18 03.20	3.0X			0.3s	2.50nm		4.8mb
	0.5s	7.30nm		5.0mb		IMA	19.41	31 eP	18 04.80	0.2		GUN	72.05	292 P	25 01.40	-0.1
BGF	82.59	359 eP	15 31.40	-0.1			1.2s	95.40nm		4.9mb		KKN	72.48	293 P	25 04.00	0.1
	0.7s	8.80nm		4.9mb		KLU	20.49	48 eP	18 14.14	-1.8X		GKN	72.70	293 P	25 05.20	0.1
TCF	82.87	359 eP	15 32.90	0.0		FBA	20.89	38 eP	18 20.50	0.6		DMN	72.72	293 P	25 05.80	0.4
	0.7s	7.70nm		4.9mb		BALM	22.08	50 eP	18 32.06	0.0		DMU	74.92	5 eP	25 17.80	0.4
LSF	82.91	360 eP	15 33.10	0.0		INK	27.41	35 eP	19 23.00	0.5		WIT	76.16	357 eP	25 26.00	1.7
	0.4s	10.65nm		5.3mb			0.8s	5.00nm		4.2mb		WTS	76.97	357 eP	25 29.00	0.1
VBY	82.91	350 e(P)	15 33.20	0.1		MBC	33.60	22 eP	20 17.00	-0.2		CLL	77.29	353 e(P)	25 30.00	-0.7
MAF	82.93	359 eP	15 33.60	0.3			1.0s	10.00nm		4.7mb			1.7s	30.00nm		5.0mb
	0.5s	5.70nm		4.9mb		MAT	33.95	261 eP	20 20.00	-0.7		BRG	77.64	352 iP	25 32.30	-0.4
LPL	83.53	356 eP	15 36.60	0.0			1.2s	34.38nm		5.2mb			1.1s	14.00nm		4.9mb
LPG	83.55	356 eP	15 36.50	-0.3		YKA	35.15	46 eP	20 28.90	-1.7		MOX	78.05	353 eP	25 34.00	-1.0
	0.5s	3.45nm		4.7mb			0.6s	4.50nm		4.6mb			1.6s	29.00nm		5.1mb
LSD	83.57	356 P	15 37.66	0.8		GMW	35.70	74 eP	20 36.50	1.0		ENN	78.23	357 eP	25 36.00	0.2
RJF	83.86	360 eP	15 38.30	0.3		JCW	35.92	72 P	20 38.14	0.8			0.9s	22.40nm		5.2mb
RSP	83.88	356 P	15 39.59	1.4		BMW	35.94	75 eP	20 37.39	-0.2		SNF	78.52	358 Pd	25 38.40	0 9
RRL	84.13	356 P	15 40.96	1.3		KMOR	36.18	77 P	20 41.25	1.6		SPC	78.60	348 eP	25 39.10	0.9
BOB	84.14	354 P	15 40.50	1.0		RMW	36.33	73 eP	20 41.60	0.7		GRF	79.03	354 ePd	25 41.30	0.9
BHB	84.18	356 P	15 39.77	0.1		LON	36.66	74 eP	20 44.28	0.6			1.8s	107.00nm		5.5mb
LFF	84.22	0 eP	15 40.10	0.3		SHW	36.67	75 eP	20 43.43	-0.4		PPE	80.27	342 eP	25 48.00	1 0
	0 5s	14.15nm		5.4mb		WKYJ	37.08	261 eP	20 46.90	-0.4		FLN	80.29	1 eP	25 46.50	-0.6
CAF	84.23	360 eP	15 40.30	0.4		ASR	37.09	75 P	20 47.98	0.7			1.1s	30.05nm		5.2mb
	0.7s	8.05nm		5.0mb		SSOR	37.20	77 P	20 49.47	1.2		LDF	80.46	1 eP	25 47.10	-0.9
LPO	84.48	0 eP	15 41.20	0.1		WTV	37.33	72 P	20 49.99	0.7			0.9s	20.00nm		5.1mb
	0.7s	21.85nm		5.4mb		EBG	37.34	73 P	20 50.29	1.0		CDF	80.53	356 eP	25 48.00	-0.5
PZZ	84.53	356 P	15 41.23	-0.3		SAW	37.66	72 P	20 52.67	0.7			0.9s	9.00nm		4.8mb
ROB	84.70	355 P	15 41.37	-0.9		YONJ	37.77	264 eP	20 53.70	0.7		QUE	80.57	307 eP	25 50.30	1.1
BDI	84.76	353 P	15 42.70	0.1		VGB	37.90	75 eP	20 54.87	0.9		GRR	80.66	2 eP	25 48.80	-0.2
SFI	84.81	352 P	15 40.90	-1.8		WAH2	38.01	73 P	20 55.52	0.6			0.6s	14.60nm		5.2mb
PGD	84.86	353 P	15 44.50	1.2		CROR	38.04	76 P	20 55.87	0.6		VRI	80.78	342 eP	25 51.00	1.3
FIR	85.00	353 eP	15 44.50	0.8		TKSJ	38.20	262 eP	20 57.30	0.7		CVO	80.92	343 ePc	25 52.00	1.4
IMI	85.08	355 P	15 43.70	-0.5		DPW	38.29	71 P	20 57.65	0.3		HAU	80.97	357 eP	25 50.20	-0.6
ARV	85.13	352 P	15 45.20	0.8		JBO	38.49	75 P	20 59.55	0.5			1.1s	19.05nm		5.0mb
SBF	85.15	356 eP	15 44.50	-0.1		NEW	38.74	70 eP	21 01.08	0.0		LPF	81.01	2 eP	25 50.70	-0.2
	0 6s	19.10nm		5.5mb			1.1s	91.16nm		5.5mb			1.0s	35.20nm		5.3mb
ASPA	85.46	223 P	15 46.59	0.4		LNOR	39.22	74 P	21 05.92	0.8		BSF	81.13	356 eP	25 51.10	-0.6
	1.1s	4.90nm		4.6mb		LBFM	39.44	82 eP	21 05.64	-1.5			1.1s	16.85nm		5.0mb
FRF	85.49	356 eP	15 46.10	-0.1		SHNJ	39.93	265 P	21 12.20	1.2		MLR	81.29	343 ePd	25 54.00	1.4
	0 5s	9.35nm		5.3mb		KUMJ	41.17	263 P	21 22.30	1.1		LOR	81.78	358 eP	25 54.60	-0.3
LRG	85.61	356 eP	15 46.30	-0.4		ARN	42.03	86 eP	21 28.61	0.3			0.9s	16.05nm		5.0mb
	0.6s	10.75nm		5.2mb		LCCM	43.06	70 eP	21 36.50	-0.3		HYF	81.79	359 eP	25 55.10	0.1
LMR	85.72	356 eP	15 47.50	0.2		BONR	43.67	83 eP	21 42.35	0.3		SSF	81.99	359 eP	25 55.90	-0.1
	0.6s	9.30nm		5.2mb		HVU	44.80	75 eP	21 50.89	0.0			1.0s	22.20nm		5.1mb
EPF	86.12	1 eP	15 49.00	-0.4		BJI	45.56	282 eP	21 56.50	-0.2		LBF	82.06	358 eP	25 55.90	-0.6
	0.4s	1.80nm		4.7mb			1.4s	48.00nm		5.2mb			0.9s	10.95nm		4.9mb
AQU	86.22	351 P	15 50.10	0.2		FCC	45.88	46 eP	22 05.00	6.0X		RBL	82.07	352 P	25 56.20	-0.4
MNS	86.26	352 P	15 49.00	-1.1		BW06	46.16	72 eP	22 01.39	-0.3		WB2	82.08	224 iPc	25 55.60	-1.2
PGF	86.38	354 eP	15 50.60	-0.2			0.9s	46 91nm		5.4mb			1.0s	5.00nm		4.5mb
	0.6s	20.75nm		5.5mb		GSC	46.28	85 ePc	22 02.63	0.1		WRA	82.09	224 P	25 56.20	-0.6
SDI	86.82	351 P	15 52.80	-0.1		DAU	46.53	76 eP	22 04.98	0.2			0.8s	2.50nm		4.3mb
GBA	88.05	289 P	15 58.00	-1.0		ARUT	46.80	80 eP	22 05.85	-0.9		AVF	82.26	359 eP	25 57.20	-0.2
MGR	88.18	349 P	15 58.80	-0.6		MSU	47.13	79 ePc	22 09.93	0.5			1.0s	21.20nm		5.1mb
GUD	88.39	4 eP	16 16.00	15.5X		EMUT	47.16	76 eP	22 10.02	0.3		SMF	82.40	358 eP	25 58.00	-0.2
EPLA	88.86	6 eP	16 02.50	-0.2		PLM	47.51	87 eP	22 12.07	-0.4			0.7s	18.65nm		5.3mb
STK	89.87	213 P	16 08.10	0.9		SRU	47.77	77 ePc	22 14.17	-0.3		MFF	82.46	1 eP	25 58.40	0.0
ECOG	91.77	4 eP	16 06.20	-10.1X		SSE	48.17	269 Pc	22 18.00	0.6			1 0s	29.40nm		5.3mb
EPRU	91.99	5 eP	16 07.20	-10.1X			1.5s	37.00nm		5.2mb		BGF	82.50	359 eP	25 58.50	-0.2
EJIF	92.49	6 eP	16 14.00	-5.5X		RSSD	48.62	68 ePc	22 20.08	-0.9			0.9s	15.55nm		5.1mb
TIC	122.10	8 PKP	22 03.40	-0.2			1.2s	41.53nm		5.3mb		CTI	82.62	353 P	25 59.40	-0.1
KIC	122.40	7 PKP	22 04.00	-0.2		PV09	49.00	77 eP	22 23.53	-0.6		TCF	82.78	359 eP	26 00.00	-0.2
LIC	122.52	8 PKP	22 04.00	-0.3		PV08	49.25	76 eP	22 25.53	-0.5			0.6s	4.80nm		4.8mb
S.D. = 0.8 on 98 of 108 obs.						ULM	49.57	57 eP	22 33.00	5.1X		LSF	82.82	360 eP	26 00.20	-0.2
----------						GLD	50.59	73 eP	22 37.22	1.2			0.5s	10.50nm		5.2mb
MAY 15, 1993 22h 13m 38.51± 0.23s							1.0s	39.19nm		5.4mb		MAF	82.84	359 eP	26 00.60	0.1
51.314 N ± 5.7km 178.516 W ± 2.7km						FRB	52.99	32 eP	22 52.00	-1.6			0.5s	7.15nm		5.0mb
DEPTH = 33.0km (normol)						LZH	55.57	286 iPc	23 12.60	-0.5		RIY	83.08	351 eP	26 01.90	0.2
5.2mb (53 obs.)							1.5s	127.00nm		5.7mb		LPL	83.45	356 eP	26 04.40	0.5
ANDREANOF ISLANDS, ALEUTIAN IS. (7)								pP	23 22.50	32kmX		LPG	83.46	356 eP	26 04.60	0.5
ML 5.0 (PMR).						ACO	56.20	72 iPc	23 16.60	-0.8		LSD	83.49	356 P	26 04.87	0.7
						FVM	60.42	65 eP	23 45.25	-1.6		SSB	83.75	358 P	26 04.71	-0.5
ADK	1.28	63 iPd	14 01.70	1.6			1.2s	64.59nm		5.6mb		RJF	83.76	360 eP	26 04.80	-0.4
SMY	4.77	290 eP	14 56.30	6.4X		EEO	60.44	51 eP	23 44.50	-2.4			0.8s	19.35nm		5.3mb
SDN	11.50	62 eP	16 22.79	-0.4		OLY	61.54	68 eP	23 52.15	-2.4		RSP	83.79	356 P	26 07.48	2.0
MCNL	15.81	51 P	17 21.30	1.3		ELC	61.59	65 eP	23 52.76	-2.0		RRL	84.04	356 P	26 07.76	0.8
SVW	15.98	43 eP	17 25.60	3.3X		GAC	62.86	50 eP	24 02.50	-0.6		BOB	84.05	354 P	26 07.50	0.7
CDD	16.07	52 P	17 23.00	-0.3		KAF	65.21	347 iP	24 16.20	-2.0		LFF	84.13	1 eP	26 07.00	0.0
AUH	16.30	51 P	17 24.70	-1.6			0.5s	7.50nm		5.0mb			0.7s	27.00nm		5.5mb
KDC	16.35	57 eP	17 26.60	-0.2		GBTN	65.57	63 eP	24 19.81	-1.1		CAF	84.14	360 eP	26 07.40	0.2
SYI	16.60	54 P	17 29.20	-0.8		TKL	65.82	63 eP	24 21.35	-1.2			1.0s	30.60nm		5.4mb
TTA	16.76	37 eP	17 35.10	3.1X		NUR	66.98	348 iP	24 27.60	-1.9		LPO	84.38	0 eP	26 08.30	0.0
RDW	16.98	47 P	17 38.20	3.2X			0.4s	4 50nm		4.9mb			0.9s	39.00nm		5.6mb
RSO	17.00	47 eP	17 37.76	2.5X		LMN	67.64	44 eP	24 38.00	4.1X		HYB	84.40	291 eP	26 09.00	0.1
CNPM	17.42	51 P	17 40.40	0.1		NB2	67.73	355 P	24 32.80	-1.5			1.0s	55.00nm		5.7mb

PZZ 84.44 356 P 26 08.17 -0.6
ROB 84.61 355 P 26 09.40 -0.2
BDI 84.68 353 P 26 09.80 -0.1
SFI 84.72 352 P 26 11.60 1.6
PGD 84.78 353 P 26 11.40 0.8
FIR 84.91 353 eP 26 12.00 1.0
HVAR 84.99 349 eP 26 09.70 -1.7
IMI 85.00 355 P 26 11.14 -0.4
CRE 85.00 352 P 26 12.80 1.2
ARV 85.05 352 P 26 12.10 0.4
SBF 85.06 356 eP 26 11.60 -0.3
0.7s 28.10nm 5.6mb
FRF 85.40 356 eP 26 13.30 -0.2
0.8s 19.50nm 5.4mb
ASS 85.50 352 P 26 14.30 0.3
LRG 85.52 356 eP 26 14.10 0.1
0.7s 11.35nm 5.2mb
LMR 85.63 356 eP 26 14.50 -0.1
0.8s 18.00nm 5.3mb
EPF 86.03 1 eP 26 15.90 -0.8
1.0s 10.60nm 5.0mb
AQU 86.14 351 P 26 17.80 0.6
MNS 86.17 352 P 26 16.60 -0.8
PGF 86.29 354 eP 26 17.70 -0.3
0.7s 36.05nm 5.7mb
AZI 86.50 351 P 26 19.86 1.0
1.2s 100.40nm 5.9mb
SDI 86.74 351 P 26 20.30 0.1
GBA 88.06 289 P 26 27.00 0.2
MGR 88.10 349 P 26 26.50 -0.2
KIC 122.31 7 PKP 32 31.00 -0.7
BFT 146.41 309 ePKP 33 18.00 1.7X
0.7s 16.00nm
SLR 147.30 311 iPKPc 33 18.00 0.3
1.5s 70.00nm
KSR 148.05 313 ePKP 33 20.50 1.6X
0.7s 11.00nm
PRY 148.69 311 iPKPc 33 23.60 3.7X
1.0s 40.00nm
WIN 148.85 331 ePKP 33 23.50 3.2X
1.0s 20.00nm
SEK 149.79 309 ePKP 33 21.00 -0.5
BLF 151.13 311 ePKP 33 26.70 3.2X
0.9s 50.00nm
FRS 152.08 311 ePKP 33 30.50 5.9X
SUR 156.35 316 e(PKP) 33 47.00 16.3X
S.D. = 0.9 on 156 of 173 obs.

MAY 15, 1993 22h 32m 30.02± 0.20s
51.341 N ± 4.8km 178.783 W ± 2.4km
DEPTH = 33.0km (normal)
5 2mb (76 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS. (7)

ADK 1.42 67 eP 32 54.31 0.7
SMY 4.61 290 ePn 33 42.45 3.4X
SDN 11.63 63 (P) 35 13.97 -2.6
SVW 16.08 44 eP 36 16.47 1.5
1.0s 130.31nm 5.0mb
KDC 16.48 57 eP 36 17.72 -2.2
TTA 16.84 38 eP 36 26.02 1.5
1.0s 33.74nm 4.4mb
RSO 17.10 48 eP 36 29.23 1.2
CP2 17.63 45 eP 36 36.36 1.7
CRP 17.67 46 eP 36 37.00 1.9
SLKM 18.31 49 ePc 36 42.16 -0.6
PWA 18.83 46 eP 36 50.60 1.5
PMR 19.15 46 eP 36 51.69 -1.2
0.8s 19.19nm 4.4mb
IMA 19.48 31 ePc 36 56.56 -0.3
1.1s 66.65nm 4.8mb
e 37 13.68
KLU 20.59 48 eP 37 08.99 0.5
FBA 20.97 38 eP 37 11.27 -1.0
0.7s 20.91nm 4.6mb
BALM 22.19 50 eP 37 24.32 -0.3
BRW 22.37 19 (P) 37 27.23 1.0
KUSJ 25.91 266 eP 37 58.90 -1.5
ASAJ 26.69 270 eP 38 08.40 0.8
HOOJ 27.17 266 eP 38 09.30 -2.8
INK 27.48 35 eP 38 15.00 0.4
1.0s 8.00nm 4 3mb
NIIJ 32.86 261 P 39 02.60 0.0
CHJJ 33.62 260 P 39 09.20 -0.1
MBC 33.64 22 ePc 39 09.00 0.0
1.0s 11.00nm 4.7mb
MAT 33.79 261 eP 39 10.00 -0.8
1.1s 46.84nm 5.3mb
MTMJ 34.01 261 P 39 14.10 1.3
YKA 35.25 46 eP 39 20.60 -2.4
0.9s 4.40nm 4.4mb
MCW 35.32 72 eP 39 23.81 0.0
GMW 35.85 74 eP 39 29.24 0.9
BMW 36.09 75 eP 39 31.59 1.2
RMW 36.48 73 eP 39 34.41 0.7
LON 36.82 74 eP 39 37.58 1.1
SHW 36.83 75 (P) 39 37.19 0.5
WKYJ 36.92 260 P 39 38.10 0.7
YONJ 37.61 264 P 39 43.70 0.5
TKSJ 38.03 262 P 39 47.60 0.9
VGB 38.05 75 (P) 39 48.63 1.8
DPW 38.44 71 eP 39 49.86 -0.2
NEW 38.89 70 ePc 39 53.39 -0.4
1.1s 45.41nm 5.2mb
LGPM 39.26 83 (P) 39 57.08 0.0
LBFM 39.60 82 (P) 40 01.21 1.2
SHNJ 39.77 264 P 40 01.80 0.6
ORV 40.88 84 (P) 40 10.88 0.6
KUMJ 41.00 263 P 40 12.00 0.7
KAGJ 41.89 261 eP 40 19.60 1.0
ARN 42.19 86 eP 40 22.35 1.2
LCCM 43.21 70 eP 40 29.30 -0.2
KVN 43.30 82 (P) 40 33.60 3.3X
MMPM 43.60 84 (P) 40 34.25 1.3
MEMM 43.62 84 (P) 40 33.30 0.7
BONR 43.84 83 eP 40 35.23 0.4
TNP 44.43 82 eP 40 38.53 -1.0
0.9s 14.01nm 4.8mb
HVU 44.95 75 eP 40 43.38 -0.2
BJI 45.39 282 eP 40 47.00 0.1
1.2s 65.00nm 5.4mb
IRK 45.43 303 ePc 40 46.10 -1.0
1.4s 29.00nm 5.0mb
TPNV 45.74 83 eP 40 49.81 -0.1
0.7s 28.67nm 5.3mb
BW06 46.31 72 iPc 40 53.64 -0.8
1.0s 43.22nm 5.4mb
GSC 46.44 85 eP 40 55.58 0.2
DAU 46.69 76 eP 40 56.70 -0.8
MSU 47.29 79 eP 41 01.59 -0.6
SRU 47.93 77 eP 41 07.03 -0.2
epwP 41 21.45
SSE 48.01 269 Pd 41 07.00 -0.6
1.5s 53.00nm 5.3mb
RSSD 48.76 68 eP 41 12.09 -1.5
0.8s 14.20nm 5.0mb
epP 41 16.88 16kmX
epwP 41 27.01
GLA 49.15 86 eP 41 17.03 0.5
PV09 49.16 77 eP 41 15.48 -1.3
PV10 49.29 77 eP 41 18.91 1.1
epwP 41 31.41
PV08 49.41 76 eP 41 19.89 1.1
ULM 49.70 57 eP 41 30.50 10.1X
GLD 50.74 73 eP 41 28.81 0.1
1.2s 44.59nm 5.3mb
DAG 51.53 6 eP 41 33.10 -0.9
FRB 53.05 31 eP 41 44.00 -1.5
1.0s 11.00nm 4.8mb
LZH 55.40 286 iPc 42 03.50 0.1
1.4s 157.00nm 5.8mb
sP 42 20.50
ACO 56.35 72 iPc 42 09.60 -0.4
SDF 60.05 349 eP 42 34.50 -1.0
EEO 60.56 51 eP 42 41.50 2.3
FVM 60.56 65 eP 42 36.90 -2.4
0.8s 26.72nm 5.4mb
epP 42 41.87 16kmX
OLY 61.69 68 eP 42 44.54 -2.5
ELC 61.73 65 ePc 42 45.27 -2.0
GAC 62.97 50 eP 42 54.00 -1.3
KAF 65.15 347 iP 43 07.70 -1.6
0.8s 16.70nm 5.2mb
NUR 66.92 348 iP 43 19.20 -1.4
0.6s 7.50nm 5.0mb
LMN 67.74 44 eP 43 30.00 4.0X
UPP 68.36 351 iP 43 28.40 -1.3
JSC 68.37 62 eP 43 28.94 -1.2
epP 43 33.55 15kmX
HFS 68.42 353 eP 43 28.00 -2.1
0.7s 8.90nm 5.0mb
SGS 69.59 62 eP 43 37.27 -0.3
pwP 43 51.92
HBF 69.86 62 eP 43 38.92 -0.3
epP 43 43.22 14kmX
OBN 69.92 339 iPc 43 38.50 -0.7
1.1s 105.00nm 5.8mb
e 43 54.00
e 44 27.00
CHTO 70.76 276 iPc 43 44.40 -0.6
1.0s 15.75nm 5.0mb
GUN 71.88 292 PKPc 43 54.20 2.2
BDT 71.90 275 iPd 43 44.00 -7.8X
KKN 72.32 292 PKPc 43 54.80 0.3
PKI 72.41 292 PKPc 43 55.20 0.1
GKN 72.53 293 PKPc 43 56.00 0.4
DMN 72.56 292 PKPc 43 56.20 0.3
DMU 74.91 5 iPd 44 08.80 0.0
1.0s 93.00nm 5.7mb
DLF 75.53 5 iPd 44 12.50 0.2
1.0s 58.00nm 5.5mb
WIT 76.12 357 eP 44 16.00 0.4
NDI 76.20 299 iPc 44 16.50 -0.1
WTS 76.93 356 iPd 44 20.90 0.7
1.0s 25.60nm 5.2mb
CLL 77.24 352 iPc 44 21.00 -1.0
1.3s 21.00nm 5.0mb
e 44 38.00
BRG 77.59 352 iPc 44 23.00 -0.9
1.3s 25.00nm 5.1mb
i 44 33.50
MOX 78.01 353 ePc 44 26.00 -0.2
1.3s 25.00nm 5.1mb
PRU 78.41 351 iPc 44 27.90 -0.5
1.2s 18.30nm 5.0mb
SNF 78.49 358 iPc 44 28.07 -0.7
SPC 78.54 347 iP 44 29.50 0.1
TNS 78.63 355 ePc 44 30.20 0.5
MAIO 78.89 316 eP 44 31.00 -0.4
DOU 78.90 358 P 44 31.70 0.6
GRF 78.99 353 iPc 44 31.90 0.3
1.2s 63.00nm 5.5mb
WLF 79.29 357 iPc 44 33.58 0.4
1.2s 22.60nm 5.0mb
KHC 79.35 352 iPc 44 34.00 0 4
1.1s 13.40nm 4.9mb
WET 79.40 352 iPd 44 34.50 0.6
GEC2 79.62 352 P 44 34.80 -0.4
1.0s 6.88nm 4.6mb
e 44 39.50
FLN 80.27 1 iPc 44 38.20 -0.3
1.0s 42.40nm 5.4mb
BUD 80.37 348 eP 44 39.00 -0.1
OUE 80.42 307 eP 44 40.80 0.9
LDF 80.44 1 iPc 44 39.10 -0.3
1.0s 43.40nm 5.4mb
SOP 80.48 350 eP 44 40.00 0.4
CDF 80.49 356 iPc 44 39.60 -0.2
0.9s 13.10nm 4.9mb
FUR 80.50 353 eP 44 39.80 0.0
GRR 80.64 1 iPc 44 40.30 -0.1
1.0s 59.60nm 5.5mb
VRI 80.70 342 iPc 44 42.00 1.2
BHG 80.81 352 eP 44 42.10 0.7
CVO 80.85 343 iPc 44 43.50 1.8
HAU 80.94 357 iPc 44 42.00 -0.1
1.0s 26.60nm 5.2mb
LPF 80.99 2 iPc 44 42.50 0.2
0.8s 28.50nm 5.3mb
BSF 81.09 356 iPc 44 42.70 -0.3
1.1s 25.90nm 5.1mb
MLR 81.21 343 iPd 44 45.60 1.9
WATA 81.30 353 iPc 44 44.20 0.0
MOTA 81.33 353 iPc 44 44.00 -0.3
1.1s 31.40nm 5.2mb
WTTA 81.37 353 iPc 44 44.80 0.2
0.9s 30.60nm 5.3mb
KBA 81.41 352 iPc 44 45.40 0.6
0.9s 73.40nm 5.7mb
SOTA 81.44 353 iPc 44 45.00 0.1
1.0s 26.40nm 5.2mb
CMP 81.59 343 ePd 44 48.00 2.4
LOR 81.75 358 iPc 44 46.30 0.0
1.2s 39.85nm 5.3mb
HYF 81.76 359 iPc 44 46.70 0.3
FVI 81.94 352 P 44 48.10 0.9
SSF 81.96 358 iPc 44 47.50 0.1
1.1s 36.65nm 5.3mb
WRA 81.99 224 P 44 47.80 0.0
0.8s 2.40nm 4.3mb
RBL 82.02 351 P 44 47.40 -0.4

15d 22h

LBF	82.03	358	iPc	44	47.60	-0.2	ETOR	88.17	2	eP	45	18.10	-0.6	QUE	10.64	214	eP	12	28.10	2.0
	1.1s	19.55nm			5.1mb		GUD	88.28	4	eP	45	19.00	-0.2				eS	14	30.60	
AVF	82.23	359	iPc	44	48.90	0.1	EPLA	88.75	6	eP	45	21.00	-0.4	MAIO	11.65	260	eP	12	36.00	-3.8X
	1.0s	32.80nm			5.3mb		GRI	89.24	348	P	45	23.56	-0.2				eS	14	43.00	
PTJ	82.31	350	eP	44	49.30	0.0		0.8s	40.60nm				5.8mb	GKN	14.44	138	P	13	15.80	-1.0
LJU	82.32	351	e(P)	44	48.50	-0.8	CSS	89.55	334	eP	45	24.50	-0.7	KKN	14.95	137	P	13	23.20	-0.3
SMF	82.37	358	iPc	44	49.60	0.1	STK	89.90	213	eP	45	26.00	-0.6	DMN	15.00	137	P	13	23.00	-1.2
	1.0s	49.60nm			5.5mb			0.7s	3.60nm				4.7mb	GUN	15.18	135	P	13	27.20	0.6
VOY	82.39	351	eP	44	48.50	-1.3	EVIA	90.34	3	eP	45	28 00	-0.9	PKI	15.19	137	P	13	26.80	0.0
MFF	82.43	1	iPc	44	50.10	0.3	HRI	90.44	332	eP	45	29.00	-0.5	GBA	25.78	172	P	15	27.00	4.8X
	1.0s	52.20nm			5.5mb		EVAL	91.17	6	eP	45	32.10	-0.6	HFS	42.28	320	eP	17	44.00	-0.3
BGF	82.47	359	iPc	44	50.20	0.1	HMDT	91.45	331	eP	45	33.50	-0.5		0.4s	3.50nm				4.4mb
	1.0s	23.80nm			5.2mb		ECOG	91.66	4	iPc	45	35.00	0.0	NB2	43.52	321	P	17	53.60	-0.9
CTI	82.58	353	P	44	50.20	-0.6	EJIF	92.38	5	eP	45	38.30	0.0		0.6s	2.60nm				4.2mb
TAB	82.60	326	eP	44	52.00	0.9	SAGI	93.61	331	eP	45	43.30	-0.8	LPG	48.57	300	eP	18	34.80	-0.2
CEY	82.63	351	eP	44	50.00	-1.6	TIC	122.00	7	PKP	51	21.90	-0.7		0.7s	2.20nm				4.3mb
TCF	82.75	359	iPc	44	51.60	0.1	KIC	122.30	7	PKP	51	22 60	-0.6	LPL	48.58	300	eP	18	34.90	-0.1
	0.9s	18.65nm			5.2mb		BCAO	122.50	339	ePKPc	51	23.00	-0.6		0.5s	2.05nm				4.4mb
VBY	82.78	350	eP	44	51.50	-0.2		0.8s	7.00nm					AVF	50.42	303	eP	18	47.90	-0.9
LSF	82.79	360	iPc	44	51.80	0.1				ic	52	58.20			0.7s	2.75nm				4.4mb
	0.8s	24.70nm			5.3mb		BUL	142.17	315	ePKP	51	55.30	-5.4X	MAF	51.12	302	eP	18	53.70	-0.4
MAF	82.81	359	iPc	44	52.20	0.3	BFT	146.26	308	iPKPd	52	09 50	1.9X		0.8s	2.55nm				4.2mb
	1.0s	27.20nm			5.3mb			0.7s	38.00nm					LDF	52.06	306	eP	19	00.00	-1.2
RIY	83.03	351	iPc	44	52.50	-0.4	SLR	147.15	311	iPKPc	52	09.20	0.3		0.6s	2.45nm				4.3mb
ORO	83.24	355	P	44	57.27	3.1X		0.8s	66.00nm					LFF	52.77	301	eP	19	06.30	-0.2
	0.7s	11.70nm			5.1mb		WIN	148.74	331	ePKP	52	09.00	-2.6X		0.9s	8.70nm				4.7mb
LPL	83.41	356	iPc	44	56.10	0.9	SEK	149.64	309	iPKPc	52	17.00	4.2X	MBC	64.45	3	eP	20	28.50	1.0
	0.9s	7.20nm			4.8mb			0.7s	33.00nm						0.6s	1.00nm				4.1mb
LPG	83.42	356	iPc	44	56.40	1.0	BLF	150 99	310	ePKP	52	18.20	3.4X	IMA	68.81	19	(P)	20	56.00	0.5
	1.3s	21.30nm			5.1mb			0.8s	66.00nm					INK	70.81	10	eP	21	10.00	2.7
LSD	83.45	356	P	44	56.11	0.7	FRS	151.93	311	ePKP	52	23.70	7.8X	YKA	78.35	4	eP	21	50.70	0.0
SSB	83.72	358	P	44	56.88	0.3	SUR	156.22	315	ePKP	52	14.00	-8.1X		0.6s	0.50nm				3.7mb
RJF	83.74	360	iPc	44	56.70	0.1		0.5s	46.00nm					WRA	81.68	124	P	22	14.20	5.0X
	1.3s	63.55nm			5.6mb			S.D. = 0.9 on 216 of 229 obs.							0.7s	0 60nm				3.7mb
RSP	83.75	356	P	44	57.43	0.6	----------								S.D. = 1.1 on 18 of 21 obs.					
RRL	84 00	356	P	44	59.36	1.1	? MAY 15, 1993 23h 10m 30.21± 2.40s							----------						
BOB	84.01	354	P	44	58.80	0.7	45.965 N ±18.2km 14.951 E ±14.9km							• MAY 16, 1993 00h 10m 28.76± 0.35s						
BHB	84.06	356	P	44	58.49	0.2	DEPTH = 10 0km (geophysicist)							1.448 S ± 7.5km 100.381 E ±10.6km						
LFF	84.10	0	iPc	44	58.80	0.4	NORTHWESTERN BALKAN REGION (383)							DEPTH = 62.0km (3 depth phases)						
	1.1s	85.45nm			5.8mb									4.8mb (19 obs)						
CAF	84 11	359	iPc	44	59.00	0.5	LJU	0.30	285	ePg	10	36.50	0.0	SOUTHERN SUMATERA, INDONESIA (274)						
	1 3s	73.30nm			5.7mb					eSg	10	40.60								
HYB	84 24	291	ePc	44	59.20	-0.4	CEY	0.43	239	e(Pg)	10	39.00	0.0	KLM	4.69	16	ePd	11	41.50	2.8
	1.0s	60.00nm			5.7mb					eSg	10	44.60		IPM	6.62	6	ePc	11	59.30	2.0
PCP	84 29	355	P	44	59.27	-0.2	VBY	0.51	155	e(Pg)	10	40.50	0.0		0.6s	180.70nm				5.6mb
LPO	84.36	0	iPc	45	00.00	0.3				eSg	10	47.50		LEM	8.98	127	ePc	12	44.50	6.1X
	1.0s	77.20nm			5.8mb		VOY	0.74	276	ePg	10	44.80	0.0	CHTO	20.18	356	eP	14	58.60	-2.4
PZZ	84.40	356	P	44	59.63	-0.5				eSg	10	55.40		PKI	32.25	335	P	16	52.40	-1.5
RGB	84.57	355	P	45	00.32	-0.6	S.D. = 0.0 on 4 of 4 obs.								0.6s	15.00nm				5.0mb
RSM	84.61	352	P	45	02.20	1.2	----------							GUN	32.35	336	P	16	54.60	-0.2
BDI	84 63	353	P	45	00.80	-0.4	• MAY 15, 1993 23h 42m 45.95± 0.74s							DMN	32.41	334	P	16	54.40	-0.9
FIN	84.64	355	P	45	01.10	-0.1	53.722 N ±12.2km 160.649 W ± 8.1km							KKN	32.49	335	P	16	55.40	-0.5
ENR	84.66	356	P	44	59.91	-1.5	DEPTH = 33.0km (normol)							GKN	32.96	334	P	16	58.80	-1.1
SFI	84.67	352	P	45	02.40	1.1	4.0mb (4 obs.)							MUN	33.84	155	eP	17	09.30	2.0
PGD	84.73	352	P	45	02.90	1.1	SOUTH OF ALASKA (17)							WARB	35.26	136	eP	17	17.40	-2.2
FIR	84.86	353	eP	45	03.00	0.8								WRA	37.95	121	P	17	43.50	1.2
HVAR	84.94	349	eP	45	01.80	-0.8	SDN	1.63	3	iPd	43	12 95	0.4		0.6s	4.00nm				4.5mb
CRE	84.95	352	P	45	03.40	0.5				eS	43	24.84		WB2	37.96	121	iPc	17	41.60	-0.8
IMI	84.95	355	P	45	02.47	-0.3	KDC	6.12	46	eP	44	16.30	-0.1		0.5s	16.60nm				5.2mb
ARV	84.99	351	P	45	03.40	0.4	CRP	8.83	28	eP	44	54.51	0.1	ASPA	39.27	127	iPd	17	54.20	0.8
SBF	85.02	355	iPc	45	03.10	-0.1	SIKM	8.85	36	eP	44	55.09	0.6		0.5s	8.30nm				4.9mb
	0 9s	70.10nm			5.9mb		ADK	9.89	266	(P)	45	09.05	0.3				epP	18	09.80	62km
CDR	85.28	357	iPc	45	05.10	0 7	KLU	11.07	39	eP	45	24.45	-0.5	BJI	43.75	18	eP	18	30.00	0.3
FRF	85.36	356	iPc	45	04.80	0.0	BALM	12.26	46	eP	45	42 52	1.4		0.9s	12.00nm				4.7mb
	1.0s	46.60nm			5.6mb		INK	19.40	31	eP	47	11.00	-0.6	PRZ	48.02	338	iPd	19	05.00	1.2
ASS	85.44	352	P	45	05.40	0.1		0.7s	1.00nm				3 2mb	STK	49.23	132	eP	19	13.60	0.5
ASPA	85.47	223	P	45	06.09	0.7	YKA	25.33	51	eP	48	16.00	5.1X		0.5s	3.40nm				4.6mb
	1.1s	5.90nm			4.7mb			0.5s	1.30nm				3.8mb	FRU	49.81	335	eP	19	18.00	0.6
LRG	85.48	356	iPc	45	05.80	0.5	MBC	27.41	20	eP	48	33.00	3.2X		1.2s	40.00nm				5.3mb
	1.0s	29.40nm			5.5mb		SRU	36.71	93	(P)	49	51.70	0.0	ZAK	51.69	2	eP	19	24.00	-7.4X
LMR	85.59	356	iPc	45	06.20	0.3	NB2	65.40	4	P	53	25.60	-1.3		0.8s	6.00nm				4.7mb
	1.0s	35.60nm			5.5mb			0.7s	1.60nm				4.2mb	BOD	60.14	8	eP	20	29.60	-2.4
VAY	85.86	344	eP	45	07.40	0.1	HFS	66.41	3	eP	53	31 90	-1.3		1.0s	16.00nm				5.1mb
EPF	86.01	1	iPc	45	07.60	-0.5		0.3s	3.50nm				4.9mb	NRI	71.20	355	eP	21	40.00	-2.6
	1.0s	16.00nm			5.2mb		GUN	80.50	305	P	54	56.00	-0.4		1.1s	12.00nm				4.7mb
POO	86.08	295	iP	45	08.00	-0.8	KKN	80.90	305	P	54	59.20	0.9				e	21	51.00	36kmX
AQU	86.08	351	P	45	09.00	0.5	PKI	B1.01	305	P	54	59.20	0.1				e	22	03.00	
MNS	86.12	352	P	45	08.30	-0.3	GKN	81.03	306	P	54	59.40	0.4	BUL	72.39	249	iPc	21	51.70	0.8
PGF	86.25	354	iPc	45	09.30	0.0	DMN	81.13	305	P	54	59.80	0.2		0.9s	15.55nm				4.9mb
	0.9s	76.35nm			5.9mb		S.D. = 0.8 on 16 of 18 obs.							LSZ	72.44	255	iPc	21	51.00	-0.2
ECRI	86.37	3	eP	45	10.20	0.3	----------							TIK	75.24	9	eP	22	05.00	-1.2
AZI	86.44	351	P	45	10.40	0.3	• MAY 16, 1993 00h 09m 52.68± 0.44s								1.6s	44.00nm				5.1mb
DUI	86.66	350	P	45	11.90	0.5	39.277 N ± 9.0km 73.737 E ± 9.8km										e	22	27.00	83kmX
SDI	86.68	351	P	45	11.10	-0.3	DEPTH = 33.0km (normol)							OBN	76.51	328	eP	22	14.00	0.3
EGRA	86.84	1	eP	45	12.20	0.2	4.3mb (11 obs.)										i	22	31.00	62km
GBA	87 89	289	P	45	17.00	-0.5	TAJIKISTAN-XINJIANG BORDER REG. (719)							VRI	79.71	317	eP	22	32.00	0.5
MGR	88.04	349	P	45	17.10	-0.8								MLR	80.16	317	eP	22	35.00	0.9

16d 00h

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BCAO   81.98 275 iPd    22 45.50    1.4
       0.2s     16.00nm          5.7mb
                  id    23 03.00   63km
KAF    83.87 333 iP     22 53.10    0.4
       0.5s      4.70nm          4.8mb
NUR    84.25 331 iP     22 55.00    0.3
       0.4s      2.30nm          4.6mb
ILT    87.91  22 eP     23 12.00   -0.5
RBL    88.84 316 Pd     23 17.90    0.4
BRG    88.86 321 e(P)   23 18.50    1 1
GEC2   88.89 319 P      23 18.30    0.6
       0.8s      1.39nm          4.3mb
                  e     23 24.40   19kmX
ARV    89.12 313 Pd     23 19.70    0.8
CLL    89.47 321 e(P)   23 21.00    0.7
HFS    89.59 330 eP     23 20.90    0.3
       0.4s      0.70nm          4.3mb
PGD    90.02 314 P      23 21.30   -2.0
CTI    90.15 316 P      23 24.50    0.8
GRF    90.55 320 eP     23 27.00    1.7
IMA    97.75  23 eP     23 58.36    0.2
       0.8s      1.95nm          4.7mb
PPD   143.83 228 ePKP   29 58.50   -1.0
BAO   144.43 240 ePKP   30 00.00   -0.8
MIAR  144.59  20 ePKP   29 58.99   -1.4
GBTN  145.69   7 ePKP   30 01.71   -0.6
CEH   145.73 359 ePKP   30 02.14   -0.2
                  i     30 18.98
TKL   145.74   6 ePKP   30 02.11   -0.3
JSC   147.30   3 ePKP   30 06.23    1.3
CYA   147.45 203 ePKPd  30 08.70    3.3X
GOGA  148.00   6 ePKP   30 09.70    3.7X
CCH   157.05 215 ePKP   30 25.00    5.2X
CNCB  158.53 212 PKP    30 21.00   -0.9
ZOBO  159.05 212 PKP    30 22.00   -0.5
     S.D. = 1.3  on  48 of  53 obs.
-----------------------------------------
   MAY  16, 1993  00h 19m 31.31± 0.16s
   46.846 N ± 3.8km  145.531 E ± 2.4km
   DEPTH = 359.7km  ( 24 depth phases)
   5.1mb (102 obs.)
 SEA OF OKHOTSK                  (663)

YSS     1.94 276 iPnc+ 20 25.80    2.4
                  iS    21 06.00
KUR     2.29 134 iPnd- 20 25.00   -0.9
     Z  12s      3.70um
     N  12s      4.40um
                  iS    21 07.00
OKH     6.92 347 iPnc   21 17.00    3.5X
SKR     7.96  57 iPnc   21 26.30    0.5
                  eS    22 56.00
VLA    10.35 254 iPnd   22 06.00   11.7X
PET    10.46  49 ePn    21 55.00   -0.6
                  eS    23 49.00
MAT    11.65 211 iPd    22 09.50   -0.4
       0.8s    144.03nm          5.5mb
                  eS    24 18.00
MGD    13.64  11 eP     22 32.00   -1.1
       0.9s     60.00nm          5.0mb
                  e     25 00.00
SEY    16.55  11 iP     23 05.00    1.1
       1.4s     60.00nm          4.7mb
YAK    17.68 335 iPd    23 13.70   -1.7
       0.9s    521.00nm          5.9mb
                  iS    26 19.00
CIT    21.29 296 iPd    23 52.00    1.0
       1.2s    396.00nm          5.6mb
BOD    21.88 312 iPd    23 57.10    0.7
       1.0s    195.00nm          5.4mb
BJI    22.29 263 eP     24 00.50    0.1
       1.2s    391.00nm          5.6mb
     E  12s      0.50um
                  eS    27 51.00
SSE    24.47 239 P      24 20.00   -0.5
       1.0s     21.00nm          4.4mb
ADK    24.92  64 eP     24 14.50   -9.9X
ADK    24.92  64 ePd    24 22.86   -1.5
IRK    27.00 297 ePd    24 42.40   -0.8
       1.4s     64.00nm          4.8mb
                  e     24 56.30   57kmX
                  e     25 54.50
ZAK    27.88 293 iPd    24 50.50   -0.4
       1.2s     68.00nm          4.9mb
                  e     27 54.00
MQY    29.12 296 ePd    25 01.80    0.1
       1.2s     76.00nm          4.9mb

LZH    32.68 266 iPd    25 33.50    0.5
       1.5s    175.00nm          5.2mb
     Z  22s      1.42um          4.6Msz
     E  16s      0.61um
NRI    35.81 329 iPd    25 56.70   -2.0
       1.2s     52.00nm          4.7mb
                  i     28 17.00
                  e     31 07.00
TTA    35.81  42 eP     25 59.00    0.1
SVW    36.09  45 eP     26 02.00    0.8
BRW    36.24  27 eP     26 01.70   -0.5
IMA    36.81  36 iPd    26 06.32   -1.0
       0.6s     8.14nm          4.2mb
CP2    37.70  44 (P)    26 13.24   -1.5
KDC    38.12  50 eP     26 18.60    0.7
NVS    38.94 305 iPc    26 24.00   -0.7
                  i     31 54.20
PMS    38.99  44 eP     26 24.70   -0.4
PMR    39.14  44 eP     26 26.50    0.3
FBA    39.32  38 ePd    26 27.14   -0.5
       0.7s     7.77nm          4.1mb
KMI    40.21 253 Pd-    26 35.50   -0.2
       1.6s    170.00nm          5.0mb
     Z  25s      1.40um          4.7MszX
                  pP    27 22.00 220kmX
                  sP    27 49.00
                  PP    28 20.50
KLU    40.67  43 eP     26 38.44   -0.5
BALM   42.46  43 ePc    26 53.15   -0.3
                  epP   28 05.78 366km
                  i     28 09.03
                  e     30 09.57
INK    44.34  32 ePd    27 08.00    0.0
       0.5s     3.00nm          3.8mb X
MBC    46.26  19 eP     27 21.50   -1.4
       1.0s     2.00nm          3.3mb X
PRZ    46.63 290 iPd    27 28.00    1.5
       1.2s    150.00nm          5.1mb
CHTO   47.16 250 iPd    27 31.10    0.5
       0.8s     96.82nm          5.1mb
NST    48.74 246 iPd    27 42.80    0.2
FRU    48.87 293 iPd    27 44.20    0.7
       2.0s    150.00nm          5.0mb
GUN    49.79 270 P      27 50.80   -0.2
SVE    50.14 314 iPd    27 52.50   -0.3
       1.9s    120.00nm          4.9mb
                  e     29 02.30 335kmX
                  e     29 51.10
KKN    50.28 270 P      27 54.20   -0.3
PKI    50.33 270 P      27 54.20   -0.8
KHT    50.37 247 iPd    27 55.30    0.3
DMN    50.52 270 P      27 56.20   -0.1
GKN    50.59 271 P      27 56.60   -0.2
ARU    51.33 315 iPd    28 00.80   -0.8
       1.0s    220.00nm          5.4mb
                  e     29 18.00 375km
YKA    53.88  34 eP     28 18.10   -2.0
       0.5s     1.40nm          3.5mb X
NDI    55.24 276 iPd    28 29.80   -0.5
       0.5s    123.24nm          5.6mb
KEV    55.41 338 eP     28 30.00   -1.0
DAG    56.26 356 iPc    28 35.00   -1.8
       0.6s     24.67nm          4.8mb
SDF    57.20 336 iP     28 43.00   -0.5
TRO    57.46 341 iPc    28 44.00   -1.3
JCW    58.66  52 P      28 53.93    0.1
SHW    59.70  54 eP     29 01.95    0.9
WTV    60.02  51 P      29 02.83   -0.3
ASR    60.08  53 P      29 04.01    0.4
EBG    60.17  52 P      29 04.53    0.4
RNO    60.25  56 P      29 05.64    1.0
SAW    60.31  51 P      29 04.74   -0.3
SSOR   60.39  55 P      29 06.53    0.8
WAH2   60.81  52 P      29 08.45    0.2
DPW    60.84  50 P      29 08.45   -0.1
KAF    61.04 332 iP     29 08.00   -1.5
       0.6s     39.40nm          5.1mb
CROR   61.14  54 P      29 11.07    0.5
QUE    61.22 284 eP     29 10.80   -0.6
MOS    61.29 322 eP     29 11.00   -0.3
                  e     30 31.00 370km
JBO    61.47  53 P      29 13.29    0.6
HY8    61.79 266 iPd    29 14.00   -1.1
       0.8s     65.40nm          5.2mb
ASH    61.83 296 P      29 16.00    0.9
LNOR   62.06  52 P      29 16.94    0.4
OBN    62.15 322 iPd    29 16.00   -1.0

       1.3s     68.00nm          5.0mb
                  i     30 36.00 368km
MAIO   62.16 294 iPd    29 17.60    0.2
       0.9s     10.66nm          4.4mb
LGPM   62.64  59 eP     29 21.17    0.6
                  (pP)  30 38.98 355km
NUR    62.77 331 iP     29 19.40   -1 5
       0.5s     64.30nm          5.5mb
LBFM   62.91  58 eP     29 22.88    0.4
                  epP   30 41.29 358km
FCC    63.91  30 ePd    29 34.30    6.1X
POO    64.25 270 iP     29 35.00    4.0X
ORV    64.29  59 eP     29 30.53   -0.5
                  epP   30 48.79 355km
                  e     30 53.27
LRM    65.17  49 iPc    29 37.10    0.2
                  e     30 59.80 378kmX
GBA    65.23 263 Pd     29 36.00   -1.2
LCCM   65.46  49 ePc    29 38.70    0.1
                  e     31 01.50 378kmX
UPP    65.48 334 iP     29 36.60   -1.6
GRO    65.68 308 iPd    29 40.50    0.7
       1.0s    110.00nm          5.5mb
COE    65.69  61 eP     29 35.88   -4.1X
CMB    65.95  60 eP     29 41.40   -0.2
       0.9s     12.96nm          4.7mb
                  epP   30 59.47 352km
NB2    66.31 338 P      29 42.40   -1.1
       0.7s     62.40nm          5.5mb
HFS    66.40 336 eP     29 41.90   -2.1
       0.6s     91.00nm          5.7mb
FRB    66.52  16 eP     29 42.50   -2.2
       0.5s      3.00nm          4.3mb
NAO    66.59 338 P      29 42.02   -3.2X
KVN    66.61  57 eP     29 46.08    0.1
PYA    66.62 310 iPd    29 45.30   -0.4
       1.0s    100.00nm          5.5mb
MNK    66.69 325 eP     29 43.00   -2.9
       1.0s    198.00nm          5.8mb
                  e     31 02.00 356km
KIV    66.87 310 iPd    29 47.80    0 4
                  e     31 07.00 356km
                  e     38 12.70
BONR   67.23  58 eP     29 50.46    0.6
WB2    67.24 191 iPc    29 47.70   -1.9
       0.4s     9.10nm          4.9mb
WRA    67.24 191 P      29 48.30   -1.3
       0.5s      3.30nm          4.3mb
MTA    67.28 307 iPd    29 49.00   -0.7
KOD    67.62 261 eP     29 52.00   -0.5
TNP    67.77  58 iPc    29 53.28    0.2
       0.8s     12.38nm          4.7mb
                  epP   31 12.10 353km
GRS    67.93 304 iPd    29 54.80    0.8
       1.2s     70.00nm          5.3mb
ERE    68.48 306 iP-    29 58.50    1.2
       1.1s     29.00nm          4.9mb
BW06   68.78  50 eP     29 59.05   -0.1
       0.5s      8.91nm          4.7mb
                  epP   31 17.05 348kmX
DUG    68.82  54 iPd    30 00.01    0.6
       0.6s      7.70nm          4.6mb
                  ePcP  30 21.71
                  e     30 41.20
                  i     30 46.17
                  epP   31 19.36 355km
                  e     32 52.79
TAB    68.91 303 eP     30 01.00    1.0
TPNV   69.11  58 iPd    30 01.83    0.6
       0.8s     12.10nm          4.7mb
                  epP   31 19.52 346kmX
                  e     31 25.39
DAU    69.53  53 eP     30 04.22    0.3
ULM    69.72  37 eP     30 10.00    5.6X
GSC    69.91  60 eP     30 06.02    0.0
                  epP   31 24.17 347kmX
ARUT   70.14  56 eP     30 07.86    0.4
EMUT   70.19  53 eP     30 07.63   -0.1
BSD    70.22 332 iPc    30 07.10   -0.2
       0.5s     50.00nm          5.5mb
MSU    70.35  54 iPc    30 09.46    0.7
SIM    70.48 315 eP-    30 09.00   -0.1
RSSD   70.62  46 eP     30 09.63   -0.6
       0.6s      5.82nm          4.5mb
                  epP   31 28.82 352km
SRU    70.84  53 eP     30 11.80    0.2
                  epP   31 31.11 352km
```

16d 00h

			e	31	35.46					i	32	15.40	367km			0.9s	17.05nm		4.9mb				
ASPA	70.96	191	iPd	30	11.60	-0.5	WTTA	77.98	330	iPd	30	52.30	0.6	PCP	81.41	330	P	31	09.15	-0.5			
	1.1s		11.40nm			4.5mb		0.7s		33.90nm			5.3mb	MBH	81.45	305	iPd	31	11.10	1.0			
DZM	71.15	160	iPc	30	14.00	0.7				i	30	59.30	22kmX	AOU	81.56	326	P	31	11.50	1.0			
KIS	71.36	320	iPc+	30	13.00	-1.2				i	32	15.50		BH8	81.57	331	P	31	08.97	-1.5			
PV09	72.04	53	eP	30	18.79	0.1	LJU	77.99	327	e(P)	30	51.00	-0.6	RRL	81.66	332	P	31	11.16	0.0			
			epP	31	39.50	358km	RBL	78.00	328	Pd	30	51.20	-0.5	MAF	81.78	335	iPd	31	12.30	0.8			
			e	31	46.63		MOTA	78.09	330	iPd	30	52.60	0.3		0.9s		46.85nm		5.3mb				
PV10	72.18	53	ePc	30	20.16	0.7		1.0s		73.00nm			5.4mb	MNS	81.81	327	Pd	31	11.20	-0.5			
			epP	31	39.78	353km	FVI	78.15	329	P	30	52.00	-0.4	TCF	81.83	335	iPd	31	12.20	0.4			
PV08	72.25	52	ePc	30	20.26	0.3	SQTA	78.16	330	iPd	30	53.00	0.4		1.0s		21.20nm		4.9mb				
			epP	31	40.11	354km		0.8s		26.50nm			5.1mb	ROB	81.85	331	P	31	11.44	-0.5			
			e	31	44.72					i	32	17.80	373km	AZI	81.86	326	P	31	12.50	0.6			
PPE	72.53	320	ePc	30	21.80	0.8	VBY	78.17	327	eP	30	52.50	-0.1	LTX	81.86	56	eP	31	12.71	0.4			
GLA	72.65	60	eP	30	22.13	0.1	HGH	78.19	340	eP	30	52.80	0.2				epP	32	33.90	351km			
UZH	72.87	325	eP	30	21.70	-1.2	VOY	78.23	328	eP	30	52.20	-0.8				e	32	39.55				
	1.0s		27.00nm			4.9mb	CEY	78.29	327	eP	30	52.50	-0.7	PZZ	81.92	331	P	31	10.57	-1.8			
VRI	73.19	320	ePd	30	25.50	0.6	HRI	78.33	306	iPd	30	54.50	0.7	SDI	81.95	326	Pd	31	12.30	-0.2			
KAS	73.31	313	iPd	30	17.20	-8.5X	SRS	78.34	319	eP	30	53.60	0.0	LSF	82.05	336	iPd	31	13.40	0.5			
KSP	73.32	329	iPd	30	25.60	0.1	CSS	78.36	309	eP	30	53.80	0.0		0.8s		35.75nm		5.2mb				
	1.0s		56.00nm			5.2mb	ECB	78.36	343	eP	30	53.40	0.0	ENR	82.06	331	P	31	11.48	-1.6			
			e	31	47.80	365km		0.7s		64.00nm			5.5mb	IMI	82.19	331	P	31	13.31	-0.4			
BRD	73.32	320	eP	30	27.00	1.3	CDF	78.40	333	iPd	30	53.90	0.0	MFF	82.19	337	iPd	31	14.20	0.6			
CVO	73.47	321	iPd	30	28.00	1.5		1.1s		63.75nm			5.3mb		0.7s		21.85nm		5.1mb				
MLR	73.83	320	ePd	30	29.50	0.8	ECP	78.45	343	eP	30	54.00	0.1	SGO	82.34	324	P	31	14.50	0.1			
ISR	73.84	320	iPc	30	40.00	11.3X		0.6s		50.00nm			5.5mb	SBF	82.38	331	iPd	31	14.30	-0.4			
CLL	74.04	331	iPd	30	29.30	-0.3	TRI	78.55	328	eP	30	53.80	-0.8		0.9s		31.45nm		5.1mb				
	1.2s		78 00nm			5 3mb	SKO	78.60	321	i(P)	30	55.70	0.7	CSI	82.60	323	P	31	15.90	0.1			
			pP	31	52.00	367km	KNT	78.62	320	eP	30	55.24	0.2	ROI	82.66	323	P	31	16.40	0.3			
BRG	74.10	330	iP	30	29.50	-0.5	RIY	78.64	327	iPd	30	54.40	-0.6	TDS	82.68	323	P	31	16.50	0.3			
	1.2s		28.00nm			4.9mb	VAY	78.64	320	iP	30	55.80	0.7	FRF	82.91	331	iPd	31	16.90	-0.4			
CMP	74.40	321	ePc	30	33.00	1.2		1.2s		10.00nm			4.5mb		0.9s		12.60nm		4.7mb				
PRU	74.64	330	iPd	30	33.10	0.0	SOH	78.69	319	eP	30	57.40	1.9	RJF	82.92	335	iPd	31	17.90	0.6			
	1.1s		42.00nm			5.1mb	OUR	78.80	318	iP	30	56.09	0.1		0.7s		11.45nm		4.8mb				
			e	30	37.00	13kmX	GRG	79.01	320	eP	30	57.32	0.2	LRG	83.10	331	iPd	31	18.40	0.2			
			e	30	43.00		CIN	79.02	314	eP	30	57.00	-0.2		0.7s		21.85nm		5.1mb				
			e	31	55.50		THE	79.02	319	eP	30	56.92	-0.2	CAF	83.11	335	iPd	31	19.40	1.1			
WIT	74.69	336	iPc	30	34.50	1.3	CTI	79.02	329	Pd	30	56.40	-0.8		0.7s		22.70nm		5.1mb				
EKA	74 83	342	Pd	30	34.60	0.6	EEO	79.03	30	eP	31	00.50	3.4X	LMR	83.16	331	iPd	31	18.60	0.1			
	0 7s		18.50nm			4.9mb	HAU	79.05	333	iPd	30	57.00	-0.2		0.8s		25.00nm		5.1mb				
MOX	75.07	332	ePd	30	35.50	0.0		1.0s		24.00nm			5.0mb	BNH	83.34	26	eP	31	19.60	0.2			
	1.4s		39.00nm			4.9mb	BSF	79.07	333	iPd	30	56.90	-0.5	LFF	83.48	336	iPd	31	21.20	1.1			
BUD	75.09	326	eP	30	35.00	-0.6		0.8s		16.80nm			4.9mb		1.3s		89.15nm		5.4mb				
SRO	75 09	326	iP	30	36.80	1.2	PAIG	79.26	318	eP	30	58.40	-0.1	LPO	83.58	335	iPd	31	21.60	1.0			
	1.0s		92.80nm			5.5mb	OHR	79.58	321	eP	30	59.00	-1.2		0.8s		19.50nm		5.0mb				
HOF	75.27	331	iPd	30	36.60	0.0	FNA	79.60	320	eP	31	00.24	-0.1	LMN	83.91	21	ePd	31	28.30	6.0X			
	0.9s		29.00nm			5.0mb	LIT	79.66	319	eP	31	00.12	-0.5	TOO	84.04	180	iPd	31	16.30	-6.4X			
WTS	75.37	335	iPd	30	37.00	0.0	HVAR	79.67	325	iP	30	59.50	-1.1		0.7s		48.00nm		5.4mb				
	1.0s		83.30nm			5.4mb	DSI	79.80	305	iPd	31	02.40	0.9	SOI	84.14	322	Pd	31	23.30	-0.2			
TUC	75.56	58	eP	30	39.11	0.5	FLN	80.29	338	iPd	31	03.80	0.1	MTHF	84.78	334	PKP	31	27.91	1.2			
	0.8s		3.39nm			4.1mb		0.8s		34 25nm			5.2mb	LESF	85.07	335	PKP	31	29.38	1.3			
			epP	32	00.35	358km	LDF	80.35	338	iPd	31	04.00	0.0	PERF	85.08	333	PKP	31	28.73	0.6			
BZS	75.57	323	iPc	30	36.50	-1.8		0.7s		17.55nm			5.0mb	GRBF	85.17	334	PKP	31	29.47	0.8			
KHC	75.71	330	iPd	30	39.30	0.2	LOR	80.46	335	iPd	31	04.50	-0.1	EPF	85.34	335	iPd	31	30.00	0.5			
	1.1s		29.30nm			4.9mb		0.7s		17.85nm			5.0mb		0.9s		14.40nm		4.8mb				
			e	32	01.80	364km	RSM	80.56	328	Pd	31	06.10	1.0	EGRA	86.30	335	eP	31	34.30	0.3			
SOP	75.86	327	eP	30	41.00	1.2	AGG	80.61	319	eP	31	04.76	-0.8	ECRI	86.53	337	eP	31	36.00	0.8			
GEC2	75.91	330	e(P)	30	40.20	0.0	LBF	80.68	334	iPd	31	05.70	-0.1	EROQ	87.35	334	eP	31	39.90	0.8			
	0.6s		10.00nm			4.7mb		0.7s		11.25nm			4.8mb	ETOR	88.07	336	iPd	31	42.80	0.1			
WET	75.93	330	iPd	30	40.90	0.6	GRR	80.73	338	iPd	31	06.30	0.3	ECHE	88.89	335	eP	31	46.30	-0.2			
	1.0s		73.00nm			5.4mb		0.8s		50.35nm			5.4mb	EVIA	90.22	336	iPc	31	53.50	0.8			
GRF	76.02	331	iPd	30	41.60	0.9	SSF	80.75	335	iPd	31	06.10	0.0	ECOG	91.79	336	eP	31	59.70	-0 3			
	0.9s		90.00nm			5.5mb		0.7s		12.25nm			4.8mb	TIC	120.68	325	PKP	37	41.30	-1.0			
ENN	76.72	335	iPd	30	44.80	0.3	ARV	80.75	327	Pd	31	06.50	0.3	KIC	120.83	325	PKP	37	41.60	-1.0			
	0.9s		50.00nm			5.3mb	SFI	80.79	328	Pd	31	07.60	1.3	LIC	121.06	325	PKP	37	42.10	-0.9			
DMU	76.94	344	eP	30	46.00	0.3	HYF	80.81	335	iPd	31	07.00	0.6	BUL	122.75	275	ePKP	37	45.00	-1.3			
BHG	77.15	329	iPd	30	47.80	0.8	PGD	80.87	328	Pd	31	08.20	1.2	SPA	136.65	180	iPdiff	35	18.70	-0.2			
	0.8s		33.00nm			5.2mb	BOB	80.90	330	P	31	07.20	0.2		0.7s		76.56nm						
FUR	77.32	331	iPd	30	48.40	0.5	CRE	81.00	328	P	31	08.30	0.7	LPB	138.93	54	ePKP	38	18.00	0.5			
	1.2s		72.00nm			5.4mb	SMF	81.03	334	iPd	31	07.80	0.2	CNCB	139.22	54	ePKP	38	12.00	-6.2X			
ALN	77.40	317	eP	30	48.93	0.5		0.8s		29.00nm			5.1mb	SIV	142.13	45	PKP	38	17.50	-5.2X			
SNF	77.41	336	iPd	30	48.18	-0.2	AVF	81.04	335	iPd	31	07.80	0.2	PPD	151.74	35	ePKP	38	44.70	6.7X			
			ic	30	52.04	12kmX		0.8s		29.40nm			5.1mb		S.D. = 0.8		on 266 of 283 obs.						
DLF	77.43	343	eP	30	48.80	0.4	GAC	81.04	28	eP	31	08.00	0.4	----------									
KBA	77.54	329	iPd	30	49.70	0.4	LSD	81.06	332	P	31	08.42	0.3	* MAY 16, 1993 00h 24m 46.61± 1.18s									
	0.8s		42.50nm			5.3mb	IGT	81.08	320	eP	31	07.88	-0.1	18.473 S ± 7.5km 177.935 W ±12.0km									
			i	30	50.30	2kmX	LPF	81.11	338	iPd	31	08.50	0.6	DEPTH = 514.7 ± 12.4 km									
			i	32	14.40			0.9s		44.20nm			5.3mb	4.9mb (13 obs.)									
PTJ	77.58	327	eP	30	49.30	-0.1	BDI	81.11	329	P	31	09.30	1.1	FIJI ISLANDS REGION								(181)	
WLF	77.63	334	P	30	50.00	0.5	FIR	81.13	328	e(P)	31	02.00	-6.1X										
DOU	77.70	335	P	30	50.10	0.2	LPL	81.14	332	iPd	31	09.10	0.6	SVA	3.45	275	eP	26	59.00	56.5X			
HCG	77.75	341	ePc	30	49.40	-0.8		0.9s		32.75nm			5.1mb	VUN	3.45	277	iPc	26	03.50	0.9			
HAE	77.76	340	ePc	30	50.70	0.5	LPG	81.15	332	iPd	31	09.20	0.6	BKM	13.17	271	iPc	27	43.00	4.8X			
	1.2s		25 00nm			4.9mb		0.8s		32.90nm			5.2mb	DZM	15.09	254	iPc	27	58.00	0.3			
HTR	77.89	341	ePc	30	50.90	0.0	ASS	81.22	327	P	31	09.20	0.5	WLZ	20.14	195	eP	28	49.00	2.5			
	1.2s		14.00nm			4.6mb	RSP	81.30	332	P	31	08.14	-1.0	URZ	20.18	191	eP	28	45.80	-1.1			
WATA	77 93	330	iPd	30	51.80	0.4	BGF	81.40	335	eP	31	09.70	0.2		0.2s		104.00nm			6.1mb X			

| | | |

16d 01h

0.4s 4.30nm
WRA 153.58 250 PKP 51 18.10 6.9X
0.8s 1.50nm
S.D. = 1.3 on 71 of 81 obs.

? MAY 16, 1993 02h 35m 41.28± 0.98s
54.717 N ±18.1km 161.439 E ±20.4km
DEPTH = 33.0km (normal)
4.2mb (5 obs.)
NEAR EAST COAST OF KAMCHATKA (218)

INK	32.10	39	eP	42 07.50	0.6
MBC	35.23	24	eP	42 34.50	0.6
YKA	41.43	44	eP	43 24.80	-0.9
	0.7s	1.70nm		3.9mb	
KAF	58.30	337	iP	45 34.90	0.3
	0.4s	1.80nm		4.5mb	
NB2	62.20	344	P	46 01.30	-0.1
	0.7s	1.70nm		4.3mb	
HFS	62.64	342	eP	46 03.60	-0.6
	0.4s	1.60nm		4.5mb	
WRA	77.89	206	P	47 37.20	0.1
	0.7s	0.70nm		3.8mb	
S.D. = 0.7 on 7 of 7 obs.					

& MAY 16, 1993 02h 39m 35.31s
61.944 N 147.455 W
DEPTH = 41.4km
SOUTHERN ALASKA (2)
<AEIC>. ML 2.5 (AEIC).

SCM	0.13	151	iPd	39 41.90	-0.5
			eS	39 47.29	
SML	0.44	252	iPd	39 44.50	-0.9
			eS	39 52.12	
GHO	0.72	257	ePc	39 48.28	-0.9
			eS	39 58.76	
KLU	0 86	121	iPc	39 50.16	-1.0
			eS	40 01.97	
PLRM	0.87	247	iPd	39 50.30	-0.9
PMR	0.87	247	iPc	39 49.87	-1.3
			eS	40 01.63	
TZL	0.96	83	iPc	39 52.10	-0.5
VLZ	0 98	146	ePc	39 51.33	-1.4
			eS	40 04.27	
SDG	1.07	56	eP	39 53.16	-0.9
			S	40 06.71	
PWA	1.19	257	P	39 55.70	0.0
PMS	1.23	236	P	39 56.50	0.2
PTE	1.32	216	ePd	39 57.73	0.2
			eS	40 15.79	
PAX	1.38	41	ePd	39 57.45	-1.1
HUR	1.45	317	eP	39 58.44	-1.0
RND	1.60	337	eP	40 00.78	-0.9
HIN	1.62	163	ePc	40 01.71	-0.2
CVA	1.63	149	iPc	40 02.07	0.2
SUA	1.64	254	eP	40 02.35	0.1
MPA	1.73	213	eP	40 04.11	0.8
GLB	1.81	105	ePc	40 03.82	-0.8
			eS	40 27.52	
MCK	1.92	340	eP	40 05.56	-0.6
SKT	1.93	273	eP	40 06.21	0.0
			eS	40 31.72	
SLKM	1.97	224	eP	40 07.47	0.6
			eS	40 33.31	
TRF	2.00	320	eP	40 06.12	-1.3
RAGM	2.06	138	eP	40 07.71	-0.5
SEW	2.09	209	eP	40 08.54	0.0
SPU	2.33	253	eP	40 11.91	-0.2
CPAM	2.34	255	eP	40 13.49	1.2
CRP	2.35	255	(P)	40 14.31	1.9
CKN	2.37	254	eP	40 12.51	-0.2
CP2	2.39	256	eP	40 13.00	0.0
CKT	2.39	254	eP	40 12.15	-0.8
CROM	2.40	118	eP	40 12.65	-0.5
CKL	2.45	254	eP	40 13.66	-0.2
BGL	2.46	256	eP	40 14.11	0.2
HDA	2.48	5	eP	40 13.81	-0.3
KAIM	2.51	142	eP	40 13.56	-1.0
TGL	2.53	116	eP	40 14.04	-0.9
WRH	2.55	354	eP	40 14.34	-0.8
BALM	2.61	108	eP	40 14.91	-1.2
CCB	2.72	357	eP	40 16.62	-0.8
SNH	2.86	126	eP	40 19.31	-0.2
DFR	2.87	244	eP	40 19.59	-0.1
RSO	2.96	242	eP	40 18.99	-2 2
			eS	41 01.87	
FBA	2.97	357	eP	40 19.59	-1.5
CTGM	3.10	106	eP	40 22.90	-0.2
YAH	3.19	117	eP	40 22.40	-2.0
MLY	3.43	336	eP	40 26.10	-1.6
IMA	4.96	329	eP	40 46.60	-2.8
49 obs. ossocioted					

? MAY 16, 1993 02h 44m 25.33± 2.21s
40.691 N ±16.2km 22.630 E ±12.8km
DEPTH = 10.0km (geophysicist)
GREECE (364)

THE	0.26	103	iPg	44 31.01	0.2
			iSg	44 35.02	
GRG	0.32	327	ePg	44 31.90	0.0
			eSg	44 36.62	
KNT	0.51	23	iPg	44 35.82	0.1
			eSg	44 43.14	
SOH	0.57	76	ePg	44 36.62	-0.2
S.D. = 0.3 on 4 of 4 obs.					

? MAY 16, 1993 03h 12m 00.86± 4.31s
13.879 N ±58.1km 92.956 W ±17.2km
DEPTH = 33.0km (normal)
3.9mb (2 obs.)
OFF COAST OF CHIAPAS, MEXICO (68)

TPX	1.22	33	(P)	12 17.50	-4.2X
BVA	2.38	71	iPd	12 38.17	-0.5
			iS	13 10.35	
GCG	2.45	73	iPc	12 38.46	-1.1
SLP	2.73	71	iPc	12 44.20	0.7
SCX	2.86	6	(P)	12 54.50	9.4X
			(S)	13 21.50	
MRL	3.37	69	iP	12 53.44	0.7
			iS	13 39.91	
OXX	4.83	312	(P)	13 20.50	7.1X
PPM	7.50	314	(P)	13 56.50	5.3X
LTX	18.30	329	eP	16 13.56	-0.5
MIAR	20.58	359	eP	16 39.91	0.3
	0.6s	1.86nm		3.6mb	
YKA	50.93	347	eP	21 00.70	-0.2
	0.8s	2.00nm		4.1mb	
MBC	63.92	353	eP	22 33.00	0.6
POO	145.27	22	iPKPc	31 51.20	13.4X
S.D. = 0.8 on 8 of 13 obs.					

? MAY 16, 1993 03h 14m 03.31± 3.07s
36.685 N ±20.0km 27 530 E ±18.5km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)
ML 3.5 (ISK).

YER	0.75	53	iPg	14 18.00	-0.1
			iSg	14 29.00	
CIN	1.02	26	ePg	14 23.00	0.5
			iSg	14 37 00	
IZM	1.72	353	ePn	14 33.50	0.0
ELL	1.91	87	iPn	14 36.60	0 2
KHL	2.28	44	iPn	14 41.00	-0.6
BCK	2.57	72	ePn	14 45.70	0.0
S.D. = 0.5 on 6 of 6 obs.					

MAY 16, 1993 03h 19m 11.08± 0.17s
51.385 N ± 4.2km 178.443 W ± 2.0km
DEPTH = 33.0km (normal)
5.3mb (103 obs.) 4.5Msz (23 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS. (7)
ML 5.1 (PMR). Felt (IV) on Adak.

ADK	1.20	65	iPc	19 33.41	1.8
SMY	4.79	289	eP	20 25.24	2.5
SDN	11.42	63	(P)	21 52.92	-1.9X
PET	14.13	286	eP	22 48.00	17.2X
Z	18s	1.00um			
			e	25 16.00	
SVW	15.90	43	eP	22 55.04	1.3
	0.8s	140.31nm		5 2mb	
SKR	16.01	277	eP	22 58.00	2.8
	0.7s	60.00nm		4 8mb	
Z	20s	1.50um		3.4Msz	
E	20s	1.50um			
KDC	16.27	57	eP	22 55.11	-3.3X
	0.5s	29.58nm		4.7mb	
ILT	16.57	360	iPc	23 05.50	3.4X
	1.2s	116.00nm		4.9mb	
Z	15s	1.10um		4 2MszX	
N	15s	0.50um			
E	15s	0.40um			
TTA	16.67	37	eP	23 04.99	1.4
	1.2s	51.57nm		4.5mb	
RSO	16.92	48	eP	23 07.90	1.1
CP2	17.45	45	eP	23 15.24	1.8
CRP	17.49	45	eP	23 15.63	1.8
SLKM	18.12	49	eP	23 19.85	-1.6X
			e	23 22.27	
PMS	18.66	47	eP	23 26.20	-1.9X
PMR	18.96	46	eP	23 29.76	-2.0X
	0.6s	15.12nm		4.4mb	
			eS	26 59.84	
MGD	19.22	309	eP	23 38.00	3.1X
	0.7s	30.00nm		4.7mb	
Z	16s	0.90um		4.2MszX	
E	16s	0.70um			
IMA	19.33	31	ePc	23 36.38	0.2
	1.0s	93.00nm		5.0mb	
KLU	20.41	48	eP	23 46.04	-1.6X
			eS	27 28.01	
FBA	20.80	38	eP	23 50.18	-1.4X
	0.6s	26.25nm		4.8mb	
BALM	22.00	50	eP	24 03.26	-0.5
BRW	22.27	18	eP	24 06.98	0.8
SIT	25.50	60	(P)	24 37.66	0.1
	0.9s	8.04nm		4.3mb	
YSS	25.54	276	iPc	24 38.90	0.8
	0.9s	130.00nm		5.5mb	
			e	24 49.70	
KUSJ	26.12	266	eP	24 42.00	-1.5
ASAJ	26.90	270	eP	24 51.80	1.2
INK	27.33	35	eP	24 55.00	0.7
	0.5s	3.00nm		4.2mb X	
YAK	29.57	311	eP	25 31.80	17.3X
Z	22s	1.00um		4.4Msz	
N	20s	0.40um			
E	22s	1.00um			
OFUJ	30.29	262	eP	25 19.50	-1.6
TIK	30.74	330	eP	25 27.00	2.2
Z	18s	1.50um		4.7Msz	
		e	25 35.00		
		i	28 20 00		
KAKJ	33.01	259	P	25 44.20	-0.8
NIIJ	33.07	262	P	25 45.60	0.1
MBC	33.52	22	ePc	25 49.20	0.2
	0.6s	11.00nm		4.9mb	
CHJJ	33.84	260	P	25 52.30	0.1
HON	33.98	144	P	26 00.00	6.4X
Z	20s	0.73um		4.4Msz	
MAT	34.01	261	iPc	25 53.60	-0.1
	0.9s	40.34nm		5.4mb	
			eS	31 13.00	
IIDJ	34.88	260	P	26 01.40	0.2
YKA	35.07	46	eP	26 01.00	-1.5
	0.8s	11.00nm		4.8mb	
MCW	35.10	72	ePc	26 03.90	0.9
GMW	35.64	74	iPc	26 08.65	1.1
			epP	26 13.58	17kmX
			esP	26 16.40	
JCW	35.86	72	P	26 10.22	0.8
BMW	35.87	76	ePc	26 10.47	0.9
RMW	36.27	73	ePc	26 13.53	0.6
LON	36.60	74	eP	26 16.11	0.4
SHW	36.61	75	eP	26 16.83	0.9
RNO	36.84	80	P	26 19.11	1.3
ASR	37.02	75	P	26 20.09	0.8
WKYJ	37.14	261	P	26 21.10	0.8
SSOR	37.14	78	P	26 21.56	1.2
WTV	37.26	72	P	26 21.62	0.4
EBG	37.27	73	P	26 22.30	1.0
DBO	37.57	80	P	26 25.33	1.4
SAW	37.59	72	P	26 24.28	0.3
YONJ	37.82	264	P	26 26.40	0.4
VGB	37.83	76	eP	26 26.71	0.7
WAH2	37.95	73	P	26 27.68	0.7
CROR	37.98	76	P	26 28.14	0.8
BOD	38.05	307	eP	26 26.80	-0.9
	0.9s	11.00nm		4.7mb	
DPW	38.22	71	ePc	26 29.38	0.1
TKSJ	38.25	262	P	26 30.50	0.9
TKSJ	38.25	262	P	26 30.60	1.0
JBO	38.43	75	P	26 31.73	0.7
KMPM	38.53	85	eP	26 33.46	1.5
NEW	38.67	70	iPc	26 33.22	0.1
	0.9s	123.75nm		5.7mb	
			e	27 47.52	

16d 03h

LNOR	39.16	74 P	26 37.65	0.5				sP	29 04.00					Z 20s	1.00um	5.1Msz
LBFM	39.38	82 ePc	26 40.06	0.8	ACO	56.14	72 iPc	28 48.20	-1.3					N 18s	1.00um	
SHNJ	39.99	264 P	26 45.20	1.2	MEO	57.77	73 iPd	29 01.10	0.0					E 20s	1.00um	
NTYM	40.64	86 (P)	26 49.83	0.5	OCO	57.93	72 iPd	29 04.10	1.9	PYA	78.39	331 iPc	31 09.00	-0.5		
ORV	40.66	84 eP	26 49.55	0.0	LTX	58.43	81 eP	29 02.69	-3.2X		1.0s	100.00nm		5.8mb		
CIT	40.72	299 eP	26 51.00	1.1	SDF	60.05	349 iP	29 15.50	-1.0	PRU	78.40	351 eP	31 08.00	-1.4		
KUMJ	41.22	263 P	26 55.20	1.0	FVM	60.35	65 iPc	29 16.88	-2.0	SNF	78.45	358 Pc	31 09.50	-0.2		
COE	41.95	87 (P)	27 00.53	0.4		0.8s	69.67nm		5.8mb	SPC	78.54	348 eP	31 11.80	1.3		
ARN	41.98	87 eP	27 00.32	-0.1	EEO	60.36	51 eP	29 20.50	1.6	KIV	78.57	331 iPc	31 10.90	0.3		
KAGJ	42.10	261 P	27 02.40	1.0	MIAR	60.91	70 ePc	29 21.45	-1.3		1.1s	66.00nm		5.6mb		
CMB	42.27	85 P	27 10.00	7.1X		0.8s	38.61nm		5.6mb		Z 20s	0.30um		4.6Msz		
Z 19s	0.31um		4.2Msz		Z 19s	0.13um		4.1Msz				e	31 27.00			
LCCM	42.99	70 eP	27 08.20	-0.6	OLY	61.47	68 eP	29 24.35	-2.3	UZH	78.79	346 eP	31 10.80	-0.8		
BONR	43.62	84 eP	27 14.70	0.6	ELC	61.52	65 eP	29 24.93	-1.9		1.0s	25.00nm		5.2mb		
TNP	44.22	83 eP	27 19.30	0.4	SVE	61.72	328 eP	29 28.00	0.0	DOU	78.86	358 Pc	31 11.90	0.0		
	0.6s	6.43nm		4.6mb		1.1s	20.00nm		5.2mb	GRF	78.97	354 ePc	31 12.90	0.3		
NRI	44.32	330 iPc	27 18.10	-0.9	Z 20s		1.00um		5.0Msz		1.0s	49.00nm		5.5mb		
	1.0s	15.00nm		4.8mb	N 20s		0.50um				Z 23s	0.20um		4.4MszX		
		e	27 32.00		E 20s		0.50um			MAIO	79.01	316 eP	31 14.00	0.9		
		e	29 03.00				i	30 08.00		KIS	79.20	341 iPc+	31 13.00	-0.8		
HVU	44.73	76 iPc	27 23.21	0.3	GRT	62.12	66 eP	29 30.02	-0.9		1.0s	215.00nm		6.1mb		
ISA	44.95	86 P	27 30.00	5.4X	ARU	62.73	328 eP	29 34.00	-0.7	WLF	79.25	357 iPc	31 14.29	0.3		
Z 20s	0.50um		4.4Msz		GAC	62.78	50 eP	29 34.00	-1.1		1.3s	23.00nm		5.0mb		
TPNV	45.52	83 eP	27 29.75	0.5	KMI	63.95	278 Pc	29 42.50	-0.9	KHC	79.34	352 iPd	31 14.80	0.2		
	0.8s	24.84nm		5.2mb		1.5s	80.00nm		5.6mb		1.0s	12.50nm		4.9mb		
BJI	45.59	282 eP	27 30.00	0.5	KAF	65.15	347 iP	29 48.70	-1.7	WET	79.38	352 iPd	31 15.40	0.5		
	1.2s	49.00nm		5.3mb		0.6s	20.70nm		5.4mb	GEC2	79.61	352 P	31 15.60	-0.6		
Z 24s	0.64um		4.5MszX		CBM	65.27	45 eP	29 49.30	-2.1		0.6s	4.92nm		4.7mb		
	eS	34 10.00				0.5s	6.22nm		5.0mb			e	31 21.30			
DUG	45.65	77 iPd	27 30.37	0.2	Z 18s		0.37um		4.6Msz	ZST	79.91	350 iP	31 17.80	0.2		
	1.0s	55.03nm		5.4mb	GBTN	65.50	63 iPc	29 52.07	-1.0		1.0s	26.40nm		5.2mb		
Z 21s	0.33um		4.3Msz		TKL	65.75	63 iPc	29 53.62	-1.0	PPE	80.22	342 ePc	31 20.00	0.7		
FCC	45.80	46 eP	27 37.00	6.1X	NAV	66.18	60 eP	29 56.62	-0.8			e	54 29.50			
BW06	46 09	72 iPc	27 33.50	-0.3	FRU	66.82	310 iP	30 03.00	1.6	FLN	80.22	1 iPc	31 18.60	-0.7		
	0.7s	39 04nm		5.5mb		2.0s	40.00nm		5.2mb		0.7s	26.90nm		5.4mb		
GSC	46 23	85 eP	27 34.53	-0.2	Z 20s		0.50um		4.7Msz	Z 19s		0.13um		4.3Msz		
SSK	46 38	87 eP	27 35.81	-0.3			e	30 34.00		LDF	80.39	1 iPc	31 19.60	-0.6		
DAU	46 47	76 iPc	27 37.25	0.4	NUR	66 92	348 iP	30 00.00	-1.7		0.7s	34.95nm		5.5mb		
ARUT	46.74	80 eP	27 38.89	0.0		0.7s	28.50nm		5.5mb	CDF	80.46	356 iPc	31 20.20	-0 5		
MSU	47 07	79 iPc	27 41.80	0.3	HRV	67.04	50 P	30 10.00	7.2X		1.2s	27.35nm		5.1mb		
		i	27 49.95		Z 21s		0.30um		4.5Msz	FUR	80.48	353 eP	31 21.20	0.5		
EMUT	47.10	76 ePc	27 41.98	0.2	LMN	67.56	44 ePd	30 10.30	4.3X	GRR	80.59	2 iPc	31 20.80	-0.4		
ZAK	47.14	301 ePd	27 42.50	0.9	GOGA	67.57	64 iPc	30 04.70	-1.5		1.0s	44.40nm		5.4mb		
1.2s	26.00nm		5.1mb			1.0s	114.74nm		5.9mb	VRI	80.72	342 ePc	31 23.00	1.0		
Z 20s	0.77um		4.7Msz		Z 19s		0.22um		4.4Msz	CVO	80.87	343 iPc	31 24.50	1.7		
N 22s	0.37um				NB2	67.66	355 P	30 05.00	-1.4	HAU	80.91	357 Pc	31 22.60	-0.4		
E 20s	1.19um					0.8s	7.00nm		4.8mb		1.2s	41.05nm		5.3mb		
	e	29 12.50			PRM	67.69	63 iPc	30 06.28	-0.7		Z 22s	0.13um		4.2Msz		
	eS	34 23.00			CEH	68.15	60 iPc	30 08.71	-1.1	LPF	80.94	2 iPc	31 22.80	-0.3		
MOY	47.64	304 eP	27 45.10	-0.5		0.5s	35.19nm		5.7mb		1.1s	50.80nm		5.4mb		
SRU	47.71	77 ePc	27 46.17	-0.4	JSC	68.16	62 iPc	30 09.36	-0.5	BSF	81.06	356 iPc	31 23.30	-0.6		
SSE	48.22	269 Pc	27 50.00	-0.3	UPP	68.35	351 iP	30 09.10	-1.5		1.0s	23.20nm		5.1mb		
1.1s	25.00nm		5.2mb		HFS	68.41	354 eP	30 09.00	-2.0	MLR	81.23	343 iPd	31 26.50	1.6		
Z 20s	0.50um		4.5Msz			1.0s	31.90nm		5.3mb	WATA	B1.28	353 iPc	31 24.90	-0.2		
	pP	28 04.00	53kmX		Z 19s		367.00um		7.6MszX	MOTA	81.31	353 iPc	31 24.90	-0.4		
	S	34 48.00					LR	54 27.00			0.9s	23.90nm		5.2mb		
RSSD	48.55	68 iPd	27 51.86	-1.2	SGS	69.38	63 iPc	30 17.50	0.1	WTTA	81.35	353 iPc	31 25.50	0.0		
0.5s	18.17nm		5.4mb				epwP	30 31.17			0.7s	21.80nm		5.3mb		
Z 21s	0.26um		4.2Msz		HBF	69.65	63 iPc	30 19.06	0.0			i	31 26.20			
GLA	48.94	86 eP	27 55.10	-0.8	OBN	69.95	339 ePc	30 19.70	-0.8	KBA	81.40	352 iPc	31 26.20	0.4		
PV09	48.94	77 ePc	27 55.48	-0.7		1.1s	47.00nm		5.5mb		1.0s	109.00nm		5.8mb		
PV10	49.08	77 ePc	27 56.69	-0.5			e	30 41.00				i	31 27.00			
PV08	49.19	76 ePc	27 57.41	-0.7	CHTO	70.97	276 ePc	30 26.70	-0.6	GRS	81.40	327 iPc	31 26.80	0.9		
ULM	49.49	57 eP	28 05.00	5.1X		1.0s	12.25nm		4.9mb		1.1s	50.00nm		5.4mb		
GOL	50.46	73 ePc	28 07.65	-0.1	GUN	72.06	292 Pc	30 34.40	0.2	ERE	81.41	328 iP+	31 26.60	0.8		
0.8s	66.10nm		5.7mb		KKN	72.50	293 Pc	30 36.80	0.2		1.0s	13.00nm		4.9mb		
GLD	50.52	73 ePc	28 08.46	0.3	PKI	72.59	292 Pc	30 37.40	0.1	SOTA	81.43	353 iPc	31 25.60	-0.2		
0.9s	55.44nm		5.6mb		GKN	72.71	293 Pc	30 38.00	0.3		0.9s	28.40nm		5.3mb		
Z 18s	0.58um		4.6Msz		DMN	72.74	293 Pc	30 38.40	0.4	ISR	81.46	342 eP	31 25.00	-1.0		
	epP	28 13.71	18kmX		MNK	72.85	344 eP	30 34.00	-3.9X	CMP	81.61	343 ePd	31 29.00	2.3		
DAG	51.46	6 eP	28 13.40	-1.2	EKA	73.58	3 P	30 42.00	-0.1	LOR	81.71	358 iPc	31 26.80	-0 4		
TUC	51.96	84 eP	28 18.11	-0.9		1.4s	48.90nm		5.3mb		1.1s	31.25nm		5.2mb		
0.8s	8.28nm		4.7mb		DMU	74.85	5 eP	30 49.30	-0.2	Z 21s		0.15um		4.3Msz		
Z 19s	0.18um		4.1Msz		DLF	75.47	5 eP	30 52.90	-0.2	BZS	81.84	346 eP	31 26.00	-1.8		
	e	28 26 44			NDI	76.37	299 eP	30 58.50	-0.1	SSF	81.92	359 iPc	31 28.10	-0.1		
ALO	52 88	78 ePc	28 25.00	-1.0	WTS	76.90	357 eP	31 03.50	2.4		0.9s	33.60nm		5.4mb		
1.0s	11.09nm		4.8mb			1.1s	25.90nm		5.2mb	FVI	81.93	352 P	31 28.20	0.0		
	ePcP	29 34.17			CLL	77.22	353 iPd	31 02.80	-0.1	LBF	81.99	358 iPc	31 28.20	-0.5		
FRB	52.91	32 eP	28 24.00	-1.5		1.1s	20.00nm		5.1mb		1.0s	25.00nm		5.2mb		
0.5s	7.00nm		4.9mb		KSP	77.38	350 eP	31 03.00	-0.8	RBL	82.01	352 P	31 28.20	-0.6		
ELT	53 97	312 eP	28 31.00	-2.5	BRG	77.58	352 iPd	31 04.40	-0.5	WB2	82.17	224 iPc	31 28.30	-1.5		
0.9s	22.00nm		5.2mb			1.2s	22.00nm		5.1mb		0.9s	7.10nm		4.7mb		
LZH	55.60	286 iPc	28 46.00	0.2	MOX	77.99	353 ePc	31 06.90	-0.3			e	31 41.50			
1.5s	161.00nm		5.8mb			1.4s	22.00nm		5.0mb	WRA	82.17	224 P	31 28.90	-0.9		
Z 21s	0.81um		4.8Msz		ENN	78.16	357 iPd	31 13.40	5.4X		0.7s	2.80nm		4.4mb		
N 18s	0.71um					0.8s	41.70nm		5.5mb	AVF	82.19	359 iPc	31 29.40	-0.2		
	pP	28 59.50	49kmX		GRO	78.18	329 iPd	31 09.00	0.7		0.9s	35.55nm		5.4mb		

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PTJ	82.30	350	eP	31	30.10	-0.3	GUD	88.22	4	iPd	31	59.50	-0.5	SVW	15.97	44	eP	46	06.10	2.3
LJU	82.31	351	e(P)	31	29.50	-0.8	TDS	88.42	349	P	32	00.50	-0.3	CDD	16.06	52	P	46	05.30	0.3
SMF	82.33	358	iPc	31	30.20	-0.2	EPLA	88.69	6	eP	32	01.50	-0.6	KDC	16.36	57	eP	46	07.34	-1.3
	0.9s	60.10nm			5.6mb		GRI	89.24	348	P	32	04.15	-0.6	ILT	16.58	360	iPc	46	15.00	3.6X
MFF	82.38	1	iPc	31	30.60	0.0		0.7s	83.30nm			6.2mb			1.3s	68.00nm			4.6mb	
	1.0s	56.60nm			5.6mb		CSS	89.60	334	eP	32	05.80	-0.7		Z 16s	0.70um			3.8MszX	
VOY	82.38	351	e(P)	31	30.20	-0.6	SOI	90.02	349	P	32	06.70	-1.7		N 16s	0.50um				
BGF	82.43	359	iPc	31	30.60	-0.3	STK	90.06	213	iPc	32	08.50	0.2		E 16s	0.30um				
	0.9s	25.55nm			5.3mb			1.4s	3.90nm			4.5mb		SYI	16.60	54	P	46	12.10	0.3
CTI	82.56	353	Pd	31	31.50	-0.2	EVIA	90.28	3	eP	32	09.50	-0.2	TTA	16.74	38	eP	46	13.49	0.0
CEY	82.62	351	e(P)	31	31.50	-0.5	KOD	90.72	287	eP	32	12.00	-0.3	CRP	17.56	45	eP	46	26.05	2.1
TCF	82.71	360	iPc	31	32.10	-0.3	EHOR	90.97	5	eP	32	12.50	-0.3	PMS	18.73	47	eP	46	37.70	-0.4
	0.9s	19.65nm			5.2mb		EVAL	91.11	7	eP	32	13.00	-0.4	PMR	19.04	46	eP	46	41.70	-0.1
TRI	82.71	351	Pd	31	32.00	-0.4	ECOG	91.60	4	iPc	32	15.10	-0.7	MGD	19.16	309	eP	46	47.00	3.7X
LSF	82.75	0	iPc	31	32.40	-0.2	ENIJ	91.96	3	iPc	32	16.10	-1.3		Z 14s	0.40um				
	0.7s	34.95nm			5.5mb		EGUA	92.04	4	eP	32	17.00	-0.7	IMA	19.39	31	(P)	46	46.34	0.3
VBY	82.77	350	eP	31	33.00	0.3	EJIF	92.32	6	eP	32	19.20	0.2		0.9s	33.81nm			4.6mb	
MAF	82.77	359	iPc	31	32.70	0.0	TIC	121.93	8	PKP	38	02.50	-1.1	KLU	20.48	48	eP	46	56.59	-1.0
	0.8s	32.80nm			5.5mb		KIC	122.23	7	PKP	38	03.10	-1.0	FBA	20.87	38	eP	47	00.97	-0.4
RIY	83.02	351	eP	31	33.40	-0.5	LIC	122.34	8	PKP	38	03.60	-0.7		0.9s	17.93nm			4.5mb	
LPL	83.38	356	iPc	31	36.70	0.6	BCAO	122.53	340	iPKPd	38	04.00	-0.7	YSS	25.45	275	iPc	47	46.00	-0.4
	1.1s	12.70nm			5.0mb			0.7s	9.00nm						0.9s	40.00nm			5.0mb	
LPG	83.39	356	iPc	31	36.80	0.5	BUL	142.29	316	iPKPd	38	35.60	-6.4X		Z 16s	0.30um			3.9MszX	
	1.2s	19.05nm			5.1mb			1.0s	10.00nm					INK	27.39	35	eP	48	05.00	1.0
LSD	83.42	356	P	31	37.09	0.7	BFT	146.40	309	iPKPc	38	50.00	1.1		0.6s	2.00nm			3.9mb X	
RJF	83.69	0	iPc	31	37.20	-0.2		0.6s	38.00nm					TIK	30.71	330	eP	48	49.00	15.4X
	1.4s	77.55nm			5.7mb		MAW	146.62	218	ePKP	38	48.00	0.4		2.0s	20.00nm				
	Z 23s	0.15um			4.3MszX			1.0s	25.00nm							i		51	29.50	
RSP	83.72	356	P	31	38.28	0.6	SLR	147.28	311	iPKPc	38	51.00	0.8			e		55	25.00	
RRL	83.97	356	P	31	40.06	0.9		0.8s	106.00nm					MBC	33.56	22	ePd	48	59.00	0.4
8OB	83.99	354	P	31	39.70	0.7	kSR	148.04	313	iPKPd	38	53.00	1.6X		0.9s	8.00nm			4.6mb	
BHB	84.03	356	P	31	39.15	0.0		1.0s	60.00nm					OPA	33.69	144	eP	49	00.87	0.7
LFF	84.05	1	iPc	31	39.50	0.3	PRY	148.68	311	iPKPd	38	56.00	3.6X	MAT	33.92	261	eP	49	02.00	-0.1
	1.0s	104.80nm			6.0mb			0.8s	53.00nm						1.0s	15.00nm			4.9mb	
CAF	84.07	360	iPc	31	39.50	0.1	WIN	148.80	331	iPKPc	38	57.40	4.6X	YKA	35.14	46	eP	49	10.50	-1.7
	1.1s	58.10nm			5.7mb			0.8s	53.00nm						0.8s	6.40nm			4.6mb	
PCP	84.26	355	P	31	40.24	-0.2	SEK	149.78	310	iPKPc	38	59.10	5.0X	MCW	35.19	72	P	49	14.28	1.4
LPO	84.31	0	iPc	31	40.50	-0.1		0.7s	33.00nm					GMW	35.73	74	eP	49	18.71	1.3
	0 9s	77.00nm			5.9mb		BLF	151.12	311	iPKPd	39	02.50	6.5X	JCW	35.95	72	P	49	20.36	1.1
PZZ	84.37	356	P	31	41.02	0.0		0.7s	77.00nm					BMW	35.96	76	eP	49	20.37	0.9
HYB	84.42	291	ePc	31	41.50	0.0	FRS	152.07	312	ePKP	39	04.00	6.8X	RMW	36.36	73	eP	49	23.80	1 0
	1 0s	105.00nm			6.0mb			0.9s	16.00nm					LON	36.69	74	eP	49	26.54	0.9
ROB	84.55	355	P	31	41.71	-0.1	CER	157.83	317	ePKP	39	25.00	20.1X	SHW	36.70	75	eP	49	25.28	-0 5
RSM	84.60	352	Pd	31	43.40	1.4		0.6s	32.00nm					RNO	36.93	80	P	49	31.62	3.9X
8DI	84.61	353	P	31	42.00	-0.2		S.D. = 0.9 on 272 of 301 obs.						WKYJ	37.05	261	P	49	29.10	0.4
FIN	84.61	355	P	31	41.48	-0.6	----------							ASR	37.11	75	P	49	30.36	1.1
ENR	84.63	356	P	31	41.25	-1.1		MAY 16, 1993 03h 30m 53.18± 0.49s						SSOR	37.23	77	P	49	31.80	1.6
SFI	84.66	353	Pd	31	43.60	1.4		37.864 N ± 6.3km 113 427 W ± 5.3km						EBG	37.36	73	P	49	32.51	1.3
PGD	84.71	353	P	31	43.80	1.0		DEPTH = 5.0km (geophysicist)						SAW	37.68	72	P	49	34.43	0.6
FIR	84.85	353	eP	31	44.00	0.8	UTAH						(478)	YONJ	37.73	264	P	49	34.90	0.5
IMI	84.93	355	P	31	43.59	-0.2		ML 3.1 (GS).						VGB	37.92	76	eP	49	36.40	0.5
HVAR	84.93	349	eP	31	42.80	-0.9								BOD	37.99	307	eP	49	36.30	0.0
CRE	84.94	352	Pd	31	44.40	0.5	ARUT	0.08	188	iPc	30	56.08	0.9	WAH2	38.04	73	P	49	37.75	0.9
ARV	84.98	352	P	31	44.50	0.5	MSU	1.18	56	ePd	31	14.33	-1.5	CROR	38.07	76	P	49	38.28	1.1
SBF	85.00	356	iPc	31	44.00	-0.1				eS	31	29.79		TKSJ	38.16	262	P	49	38.80	0.8
	0.9s	103.85nm			6.0mb		DUG	2.38	11	ePnd	31	33.65	0.1	JBO	38.52	75	P	49	41.92	1.0
CDR	85.25	357	ePc	31	46.00	0.7				eS	32	12.03		NEW	38.76	70	ePc	49	43.14	0.2
FRF	85.33	356	iPc	31	45.50	-0.2	TPNV	2.43	249	ePn	31	34.43	0.1		0.7s	55.14nm			5.5mb	
	0.8s	29.15nm			5.5mb		SRU	2.60	60	ePn	31	36.53	-0.2	LNOR	39.25	74	P	49	48.52	1.5
SKO	85.42	345	i(P)	31	46.70	0.5	EMUT	2.82	46	ePn	31	40.81	0.8	SHNJ	39.90	264	P	49	53.10	0.7
SKO	85.42	345	iP	31	49.00	2.8				eS	32	21.17		ORV	40.75	84	(P)	49	58.36	-1.1
ASS	85.43	352	P	31	46.50	0.2	TNP	3.00	275	ePn	31	42.24	-0.3	KUMJ	41.13	263	P	50	03.30	0.7
LRG	85.45	356	iPc	31	46.30	0.1	DAU	3.05	33	ePn	31	43.93	0.6	LCCM	43.08	70	eP	50	18.20	-0.4
	1.0s	46.00nm			5.6mb		PV09	3.44	78	ePn	31	49.50	0.6	NRI	44.28	330	eP	50	41.00	13.2X
LMR	85.56	356	iPc	31	46.90	0.1				eS	32	35.26			1.0s	11.00nm				
	1.0s	51.20nm			5.7mb		PV10	3.50	80	ePn	31	50.50	0.9			e		50	50.00	
ARMA	85.61	206	eP	31	47.40	0.2				eS	32	35.19				e		52	12.00	
	0.7s	8.00nm			5.0mb		GSC	3.73	228	ePn	31	52.08	-0.7	TNP	44.31	83	eP	50	29.46	0.7
ASPA	85.64	223	iPc	31	46.90	-0.5	PV08	3.83	78	ePn	31	54.18	-0.3		0.6s	4.91nm			4.5mb	
	0.7s	12.30nm			5.2mb					eS	32	46.96		HVU	44.82	75	eP	50	33.02	0.2
EPF	85.96	1	iPc	31	48.20	-0.7	TUC	5.95	158	(Pn)	32	32.90	8.8X	BJI	45.51	282	eP	50	38.00	0.0
	0.9s	12.30nm			5.1mb		ALO	6.33	115	ePn	32	28.54	-1.2		1.0s	11.00nm			4.7mb	
MTHF	86.05	359	P	31	49.97	0.6		S.D. = 0.9 on 13 of 14 obs.						DUG	45.74	77	eP	50	40.16	0.1
AQU	86.07	351	P	31	49.80	0.3	----------								0.9s	15.60nm			4.9mb	
MNS	86.11	352	P	31	49.10	-0.5		MAY 16, 1993 03h 42m 20.22± 0.20s						FCC	45.87	46	eP	50	41.50	0.9
GRBF	86.15	0	P	31	49.91	0.0		51.372 N ± 4 9km 178 586 W ± 2.3km						BW06	46.18	72	ePc	50	43.55	0.0
PGF	86.22	354	iPc	31	50.00	-0.3		DEPTH = 33 0km (normol)							0.6s	18.81nm			5.2mb	
	0.9s	93.70nm			6.0mb			5.1mb (75 obs.)						GSC	46.32	85	eP	50	45.13	0.5
ECRI	86.32	3	eP	31	50.90	0.2		ANDREANOF ISLANDS, ALEUTIAN IS. (7)						DAU	46.56	76	ePc	50	47.07	0.3
AZI	86.43	351	P	31	51.40	0.3		ML 5.0 (PMR).						ARUT	46.83	80	(P)	50	47.87	-0.9
DUI	86.65	350	Pd	31	53.00	0.6								ZAK	47.07	301	eP	50	50.00	-0.2
SDI	86.68	351	P	31	52.00	-0.5	ADK	1.29	66	ePd	42	43.63	1.6		1.0s	15.00nm			4.9mb	
EGRA	86.79	1	eP	31	53.10	0.3	SMY	4.71	290	eP	43	33.18	2.4		Z 20s	0.44um			4.4Msz	
SGO	87.65	350	P	31	56.70	-0.4	SDN	11.51	63	eP	45	04.98	-0.1		N 19s	0.21um				
MGR	88.04	349	P	31	58.40	-0.6	MCNL	15.80	51	P	46	03.50	1.9		E 20s	0.76um				
GBA	88.08	289	P	31	59.00	-0.5	SKR	15.93	277	eP	46	04.50	1.3			e		52	23.00	
ETOR	88.12	3	iPc	31	58.80	-0.7		0.6s	30.00nm			4.6mb		MSU	47.16	79	eP	50	51.54	0.1

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EMUT	47.19	76	eP	50	51.09	-0.6			1.0s	5.00nm		4.5mb		SFI	84.66	352	Pd	54	52.80	1.4
SRU	47.80	77	eP	50	56.24	-0.2		GEC2	79.61	352	P	54	24.90	-0.4		PGD	84.71	353	P	54	53.30	1.4
RSSD	48.64	68	ePd	51	01.80	-1.0			0.7s	3.05nm		4.4mb		FIR	84.85	353	eP	54	53.00	0.7
	0.7s	12.70nm			5.1mb					e	54	29.30		HVAR	84.93	349	iPd	54	51.90	-0.9
PV09	49.03	77	eP	51	05.13	-0.9		FLN	80.23	1	eP	54	28.00	-0.5		IMI	84.93	355	P	54	52.80	-0.1
PV10	49.17	77	eP	51	06.77	-0.2			1.0s	32.20nm		5.3mb		CRE	84.94	352	P	54	53.20	0.2
PV08	49.28	76	eP	51	07.25	-0.7		LDF	80.41	1	eP	54	28.90	-0.5		ARV	84.98	352	Pd	54	53.90	0.8
ULM	49.58	57	eP	51	00.00	-9.7X			0.8s	24.60nm		5.3mb		SBF	85.00	356	eP	54	53.10	-0.2
GLD	50.61	73	eP	51	18.29	0.3		CDF	80.47	356	eP	54	29.50	-0.4			0.9s	65.85nm			5.8mb	
	0.9s	31.61nm			5.3mb				1.2s	13.40nm		4.8mb		FRF	85.34	356	eP	54	54.70	-0.2
TUC	52.05	84	eP	51	28.28	-0.5		GRR	80.60	2	eP	54	30.30	-0.1			0.9s	24.55nm			5.4mb	
	0.6s	2.43nm			4.3mb				0.8s	27.55nm		5.3mb		ASS	85.43	352	P	54	55.70	0.3
FRB	52.96	32	eP	51	34.00	-1.1		VRI	80.71	342	ePc	54	32.00	0.9		LRG	85.46	356	eP	54	55.60	0.2
	0.8s	7.00nm			4.7mb			CVO	80.86	343	ePc	54	33.50	1.6			1.0s	22.20nm			5.3mb	
ELT	53.91	312	eP	51	40.80	-1.4		HAU	80.91	357	eP	54	31.80	-0 4		LMR	85.57	356	eP	54	56.00	0.0
	0.9s	16.00nm			5.0mb				1.0s	13.80nm		4.9mb			0.8s	18.95nm			5.4mb	
LZH	55.51	286	Pc	51	54.00	-0.4		LPF	80.95	2	eP	54	32.30	0.0		ASPA	85.57	223	P	54	56.79	0.6
	1.4s	53.00nm			5.4mb				0.9s	19.65nm		5.1mb		EPF	85.97	1	eP	54	57.50	-0.6
		pP		52	05.00	37kmX		BSF	81.07	356	eP	54	32.60	-0.5			0.7s	5.20nm			4.9mb	
ACO	56.22	72	iPc	51	58.00	-1.3			0.9s	8.70nm		4.8mb		AQU	86.07	351	P	54	59.20	0.6
MEO	57.86	73	iPc	52	10.00	-0.9		MLR	81.22	343	iPc	54	36.00	2.1		MNS	86.11	352	P	54	58.20	-0.6
OCO	58.01	72	iPc	52	13.50	1.5		WATA	81.29	353	iPd	54	34.40	0.1		POO	86.18	295	iPc	55	00.00	0.6
LTX	58.52	81	eP	52	13.60	-2.1		MOTA	81.31	353	iPd	54	34.40	0.0		PGF	86.23	354	eP	54	59.30	-0.1
FVM	60.43	65	ePc	52	26.97	-1.7			0.9s	12.30nm		4.9mb			0.7s	37.05nm			5.7mb	
	0.6s	22.70nm			5.5mb			WTTA	81.35	353	iPc	54	34.40	-0.3		AZI	86.43	351	P	55	00.70	0.4
MIAR	61.00	70	ePc	52	31.51	-1.0			0.8s	16.40nm		5.1mb		DUI	86.65	350	P	55	02.60	1.1
	0.8s	14.61nm			5.2mb			GRS	81.36	326	iPc	54	35.00	0 2		GBA	88.00	289	P	55	08.00	-0.2
OLY	61.56	68	eP	52	34.69	-1.7			1.1s	40.00nm		5.3mb		TDS	88.41	349	P	55	09.80	-0.1
ELC	61.60	65	eP	52	34.79	-1.8		ERE	81.37	328	iP	54	35.00	0.3		STK	90.00	213	eP	55	17.10	-0.1
SVE	61.69	328	eP	52	36.00	-0.9			1.0s	10.00nm		4.8mb			0.6s	2.10nm			4.6mb	
		e		53	16.90			KBA	81.40	352	iPd	54	35.60	0.7		TIC	121.95	8	PKP	01	12.00	-0.7
KAF	65.15	347	iP	52	57.90	-1.6			0.8s	37.00nm		5.4mb		KIC	122.25	7	PKP	01	12.60	-0.7
	0.5s	11.50nm			5.2mb					i	54	36.10		LIC	122.37	8	PKP	01	12.00	-1.5
CBM	65.34	45	eP	52	59.05	-1.9		SQTA	81.43	353	iPd	54	35.20	0.2		BUL	142.24	315	ePKP	01	46.00	-5.0X
	0.6s	3.45nm			4.6mb				0.8s	11 30nm		4.9mb		BFT	146.34	309	ePKP	02	00.30	2.4X
GBTN	65.59	63	eP	53	01.90	-0.8		CMP	81.60	343	ePd	54	38.00	2.2			0.5s	8.00nm				
TKL	65.84	63	ePc	53	03.25	-1.1		LOR	81.72	358	eP	54	36 00	-0.4		SLR	147.23	311	ePKP	01	55.00	-4.2X
NUR	66 92	348	iP	53	08.90	-1.9			0.9s	9 65nm		4.8mb			0.8s	40.00nm				
	0.7s	7.20nm			4.9mb			HYF	81.74	359	eP	54	36.60	0.2		KSR	147.98	313	ePKP	02	02.00	1.5X
LMN	67 63	44	eP	53	19.50	3.9X		SSF	81.93	359	eP	54	37.40	0.0		PRY	148.62	311	ePKP	02	03.00	1.5X
GOGA	67.65	64	eP	53	14.53	-1.3			0.9s	14.10nm		5.0mb			1.0s	20.00nm				
	0 8s	22.04nm			5.3mb			LBF	82.00	358	eP	54	37.50	-0.4		WIN	148.77	331	iPKPd	02	05.70	3.8X
		e		53	21.96				1.2s	20.55nm		5.0mb			0.8s	23.00nm				
NB2	67.67	355	P	53	13.80	-1.8		RBL	82.01	352	P	54	37.50	-0.4		SEK	149.72	309	iPKPd	02	08.10	5.0X
	0 8s	7.50nm			4.8mb			WRA	82.10	224	P	54	37.80	-0.8			1.0s	40.00nm				
PRM	67.78	63	eP	53	15.77	-0.9			0.6s	1.30nm		4.1mb		BLF	151.06	311	ePKP	02	11.10	6.0X
SLL	68 10	354	eP	53	16.30	-1.9		AVF	82.20	359	eP	54	38.80	0.0			0.7s	22.00nm				
	0.5s	1.60nm			4.4mb				1.0s	25.00nm		5.2mb		FRS	152.01	311	ePKP	02	11.00	4.8X
CEH	68.23	60	eP	53	18.63	-0.8		SMF	82.34	358	eP	54	39.40	-0.2		S.D. = 0.9 on 192 of 208 obs.						
	0.6s	15.28nm			5.3mb				0.9s	30.15nm		5.3mb		----------						
JSC	68 25	62	ePc	53	18.85	-0.7		MFF	82.40	1	eP	54	40.00	0.1		& MAY 16, 1993 03h 44m 48.84s						
UPP	68 35	351	iP	53	18.10	-1.7			0.8s	24.70nm		5.3mb			36.103 N			117.701 W			
SGS	69.47	62	eP	53	27.25	0.2		BGF	82.44	359	eP	54	40.10	0.0		DEPTH = 1.3km						
HBF	69.74	63	ePc	53	28.65	0.0			1.0s	17.20nm		5.1mb		CALIFORNIA-NEVADA BORDER REGION (40)						
OBN	69.93	339	eP	53	29.00	-0.5		CTI	82.56	353	Pd	54	40.30	-0 6		<PAS-P>. ML 3.3 (PAS), 3.3 (GS).						
	1.0s	35.00nm			5.4mb			TCF	82.72	359	eP	54	41.40	-0.2								
GUN	71.98	292	P	53	42.80	0.0			0.9s	12.80nm		5.0mb		VPEM	0.18	212	P		44	52.52	0.1
KKN	72.42	292	P	53	45.20	-0.1		LSF	82.76	360	eP	54	41.70	-0.1		WCHM	0.37	234	P		44	56.12	-0.2
PKI	72.51	292	P	53	45.60	-0.3			0.7s	20.50nm		5.3mb		WSHM	0.50	160	P		44	58.79	0.0
GKN	72.63	293	P	53	46.20	-0.2		MAF	82.78	359	eP	54	42.10	0 2		WORM	0.60	227	P		45	00.12	-0.7
DMN	72.66	292	P	53	46.80	0.1			1.1s	26.35nm		5.2mb		WBSM	0.67	212	P		45	01.62	-0.6
DMU	74.87	5	eP	53	58.50	-0.3		RIY	83.02	351	eP	54	42.40	-0.7		ISA	0.77	235	iPc		45	03.37	-0.8
WTS	76.91	357	eP	54	10.00	-0.3		LPL	83.38	356	eP	54	46.00	0.7					eS		45	12.82	
	0.9s	113.20nm			5.9mb				0.7s	3.75nm		4.6mb		WASM	0.78	243	P		45	03.78	-0.7
CLL	77.22	353	eP	54	12.00	-0.1		LPG	83.40	356	eP	54	46.10	0.6		WOFM	1.00	236	P		45	07.65	-1.0
KSP	77.38	350	eP	54	12.00	-1.0			1.1s	11.00nm		4.9mb		SNDC	1.08	207	P		45	09.17	-0.8
BRG	77.58	352	iP	54	13.40	-0.6		LSD	83.42	356	P	54	46.53	1.0		GSC	1.08	137	ePd		45	08.90	-1.2
MOX	77.99	353	ePd	54	16.20	-0.1		RJF	83.71	360	eP	54	46.60	0.0					eS		45	23.08	
	1 4s	17.00nm			4.9mb				1.1s	21.75nm		5.2mb		BMTC	1.21	217	P		45	11.26	-1.0
ENN	78.17	357	iPc	54	17.80	0.6		RSP	83.73	356	P	54	47.86	1.0		BHPR	1.35	332	P		45	13.73	-1.1
	0 9s	29.10nm			5 3mb			RRL	83.98	356	P	54	49.64	1.3		TPNV	1.44	54	eP		45	15.19	-1.0
PYA	78.36	331	eP	54	19.00	0.6		BO8	83.99	354	P	54	49.10	0.9					eS		45	33.05	
PRU	78.40	351	Pd	54	18.00	-0.6		BH8	84.03	356	P	54	48.55	0.2		BCKR	1.68	342	P		45	19.82	0.2
	0 8s	6.30nm			4.7mb			LFF	84.07	0	eP	54	48.70	0.3		MRCM	1.69	338	eP		45	19.61	-0.3
SNF	78.47	358	P	54	19.60	0.7			1.0s	59.60nm		5.7mb					eS		45	42.79	
KIV	78.54	331	iPc	54	19.70	0.1		CAF	84.08	360	eP	54	48.90	0.3		CLKR	1.74	329	P		45	21.00	0.4
Z	17s	0.10um			4.2MszX				0.9s	21.45nm		5.3mb		ABL	1.76	225	eP		45	20.74	-0.1
		e		54	27.50			PCP	84.27	355	P	54	49.55	0.0		MCSM	1.83	328	P		45	22.54	0.7
		e		54	31.00			LPO	B4.33	0	eP	54	49.90	0.1		MMPM	1.84	325	eP		45	22.41	0.3
		e		57	22.90				0.8s	38.00nm		5.6mb					eS		45	46.60	
DOU	78.87	358	P	54	21.40	0.3		HYB	84.34	291	eP	54	50.00	-0.3		FRI	1.84	299	eP		45	22.07	0.2
GRF	78.97	354	ePc	54	22.00	0.3			1.0s	40.00nm		5.5mb					eS		45	46.19	
	1.0s	20.00nm			5.1mb			PZZ	84.38	356	P	54	49.64	-0.6		MEMM	1.85	328	eP		45	22.70	0.8
Z	23s	0.10um			4.1MszX			ROB	84.55	355	P	54	50.56	-0.4					eS		45	43.72	
KIS	79.19	341	eP	54	22.00	-0.9		BDI	84.61	353	P	54	50.80	-0.5		CRGC	1.86	243	P		45	23.09	0.9
WLF	79.26	357	P	54	23.00	-0.2		FIN	84.62	355	P	54	50.88	-0.4		SSK	1.89	180	ePn		45	21.89	-0.8
KHC	79.34	352	iPd	54	23.80	0.0		ENR	84.64	356	P	54	50.42	-1.1					ePg		45	24.48	

16d 03h

		eS	45 47.87		
BONR	1.91	346 ePn	45 22.59	-0.5	
YEG	1.95	251 P	45 24.62	1.1	
RYS	1.98	223 P	45 26.29	2.2	
TNP	2.01	11 ePn	45 23.67	-0.8	
PMRM	2.08	262 P	45 27.10	1.8	
BCH	2.15	245 eP	45 25.94	-0.4	
PHAM	2.20	264 eP	45 26.02	-1.1	
PEC	2.25	168 eP	45 26.56	-1.2	
SCCM	2.33	241 P	45 30.68	1.8	
LRC	2.71	274 P	45 36.25	2.0	
PLM	2.83	166 ePn	45 34.23	-2.0	
		ePg	45 41.29		
CMB	2.89	313 eP	45 38.48	1.6	
KVN	2.96	354 eP	45 36.50	-1.5	
SAO	3.09	283 eP	45 38.25	-1.4	
COE	3.39	291 (P)	45 45.10	1.1	
ARUT	3.80	63 ePn	45 48.57	-1.5	
		ePg	45 59.54		
GLA	3.86	141 ePn	45 47.51	-3.2	
ORV	4.57	320 (P)	46 00.22	-0.5	
MSU	5.02	60 ePn	46 05.19	-2.1	
DUG	5.61	42 (Pn)	46 12.80	-2.8	
		ePg	46 31.61		
SRU	6.44	60 (P)	46 26.02	-1.3	
DAU	6.65	48 (P)	46 29.13	-1.3	
PV09	7.23	68 (P)	46 33.91	-4.7	
PV10	7.27	69 (P)	46 35.51	-3.6	
PV08	7.62	68 (Pn)	46 40.13	-3.9	
		(Pg)	47 10.47		

48 obs. associoted

% MAY 16, 1993 03h 57m 30.07± 0.66s
44.510 N ± 6.1km 7.301 E ± 7.0km
DEPTH = 5.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.7 (GEN).

PZZ	0.14	268 P	57 33.39	0.3	
		S	57 35.40		
ENR	0.30	163 P	57 36.13	0.1	
		S	57 39.93		
BHB	0 33	355 P	57 36.79	0.0	
		S	57 41.03		
ROB	0.46	118 P	57 39.79	0.4	
		S	57 46.29		
RRL	0 55	318 P	57 40.86	-0.3	
		S	57 48.34		
IMI	0.73	145 P	57 44.20	-0.6	

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

? MAY 16, 1993 04h 14m 51.41± 9.54s
45.241 N ±22.3km 6.269 E ±66.5km
DEPTH = 10.0km (geophysicist)
FRANCE (538)

RRL	0 49	131 P	15 04.68	3.4X	
		S	15 07.43		
LSD	0.66	71 P	15 04.77	0.0	
		S	15 11.64		
RSP	0.70	97 P	15 05.37	0.0	
		S	15 12.56		
BHB	0.81	119 P	15 07.15	0.0	
		S	15 16.58		
PZZ	0.94	141 P	15 09.49	0.0	
		S	15 21.39		

S.D. = 0.0 on 4 of 5 obs.

% MAY 16, 1993 04h 18m 02.64± 0.69s
38.631 S ± 8.2km 175.615 E ± 8.3km
DEPTH = 170.0km (geophysicist)
NORTH ISLAND, NEW ZEALAND (159)

WHH	0.73	110 P	18 28.00	0.1	
WLZ	0.76	359 P	18 28.70	0.8	
PAHZ	1.15	102 P	18 31.00	0.1	
WAHZ	1.21	152 eP	18 32.10	0.7	
URZ	1.23	73 P	18 30.20	-1.3	
		S	18 50.50		
TTH	1.31	134 eP	18 33.50	1.3	
TEHZ	1.64	146 eP	18 36.40	0.8	
MAHZ	1.85	108 eP	18 37.50	-0.3	
NOZ	1.90	90 P	18 37.40	-0.8	
MNG	1.99	183 P	18 39.80	0.5	
		S	19 07.10		
KIW	2.30	193 P	18 43.00	0.2	
CAW	2.51	189 P	18 45.40	0.1	
MTW	2.53	182 P	18 45.10	-0.4	
DIW	2.53	211 P	18 46.00	0.4	
MRW	2.69	195 P	18 47.50	0.0	
		S	19 22.20		
BLW	2.74	182 eP	18 47.60	-0.5	
TCW	2.78	201 P	18 48.60	0.1	
MOW	2.80	186 P	18 48.20	-0.7	
THZ	3.76	213 eP	19 00.30	-0.6	
		eS	19 45.80		
KHZ	4.10	202 P	19 04.60	-0.7	
LTZ	4.86	210 P	19 13.40	-2.0X	

S.D. = 0.7 on 20 of 21 obs.

MAY 16, 1993 05h 17m 15.96± 1.09s
14.951 N ± 4.3km 60.558 W ±13.1km
DEPTH = 33 0km (normal)
3.6mb (1 obs.)
WINDWARD ISLANDS (95)
ML 3.5 (FDF). Felt (II) on Martinique.

CRM	0.40	240 iPc	17 24.64	-0.4	
MVM	0.51	220 iPc	17 26.55	-0.2	
FDF	0.61	249 iPc	17 27.76	-0.4	
		S	17 36.10		
BIM	0.66	229 iPc	17 28.72	-0.1	
DPMT	0.86	291 eP	17 32.55	1.0	
MDN	0.89	294 iP	17 32.43	0.3	
SLW	1.00	202 iPd	17 33.73	0.1	
MGG	1.21	323 eP	17 38.00	1.4	
SLB	1.21	203 iPc	17 37.17	0.4	
SFG	1.43	335 eP	17 39.50	-0.3	
PAG	1.52	315 eP	17 41.80	0.6	
SVV	1.74	202 eP	17 45.29	0.9	
SVB	1.80	202 eP	17 45.93	0.7	
FCV	1.90	201 eP	17 46.80	0.1	
		iS	18 09.13		
MGH	2.37	318 eP	17 56.50	3.0X	
BPA	2.43	329 eP	17 53.70	-0.5	
		S	18 20.50		
NEV	2.91	319 eP	18 01.61	0.6	
TRN	4.36	191 eP	18 22.18	0.6	
		e	19 07.48		
		iS	19 09.13		
GUAN	7.02	226 eP	18 59.30	0.0	
LLAV	7.55	235 eP	19 04.20	-2.4	
YKA	60.62	334 eP	27 23 40	-2.3	
	0.6s	0.30nm		3.6mb	

S.D. = 1.0 on 20 of 21 obs.

MAY 16, 1993 05h 28m 51.01± 0.51s
36.668 N ± 4.7km 116 092 W ± 5.8km
DEPTH = 5.0km (geophysicist)
CALIFORNIA-NEVADA BORDER REGION (40)
ML 2.9 (GS).

TPNV	0.31	336 eP	28 56.42	-0.8	
		eS	29 00.19		
GSC	1.48	203 iPd	29 19.09	0.7	
		eS	29 41.03		
TNP	1.67	328 ePd	29 21.22	0.0	
		eS	29 42.12		
ISA	2.17	243 ePn	29 28.73	0.3	
MRCM	2.17	298 eP	29 29.08	0.5	
BONR	2.18	307 eP	29 28.54	-0.2	
ARUT	2.39	61 ePn	29 31.92	0.2	
MEMM	2.48	295 eP	29 34.15	1.4	
MMPM	2.53	293 eP	29 32.51	-1.2	
SSK	2.78	209 eP	29 44.60	7.4X	
		eS	30 22.23		
KVN	2.86	327 (P)	29 42.91	4.6X	
		eS	30 21.05		
PEC	2.90	198 eP	29 37.67	-1.1	
		eS	30 23.60		
PLM	3.37	191 eP	29 46.18	0.7	
		eS	30 40.42		
MSU	3.62	58 ePn	29 49.54	0.4	
CMB	3.68	293 ePn	29 55.57	5.7X	
GLA	3.75	164 (P)	29 50.02	-0.9	
		eS	30 52.40		
DUG	4 36	35 (Pn)	30 04.59	5.0X	
SRU	5.03	59 (P)	30 25.21	16.0X	
PV09	5.82	70 (Pg)	30 38.09	17.7X	
PV10	5.86	71 (Pg)	30 38.80	17.9X	
PV08	6.21	70 (Pg)	30 44.45	18.6X	

S.D. = 0.9 on 13 of 21 obs.

MAY 16, 1993 05h 30m 21.21± 0.46s
36.677 N ± 4.1km 116.102 W ± 5.0km
DEPTH = 5.0km (geophysicist)
CALIFORNIA-NEVADA BORDER REGION (40)
ML 3.2 (GS).

TPNV	0.30	337 ePc	30 26.45	-0.8	
		eS	30 30.09		
GSC	1.49	203 eP	30 48.97	0.3	
		eS	31 09.94		
TNP	1.66	328 eP	30 50.84	-0.5	
		eS	31 13.79		
MRCM	2.16	298 eP	30 58.81	0.2	
BONR	2.17	307 eP	30 58.75	0.0	
ISA	2.17	243 ePn	30 58.94	0.4	
ARUT	2.40	62 ePn	31 01.67	-0.3	
MEMM	2.47	294 eP	31 03.74	1.0	
MMPM	2.52	293 eP	31 03.69	-0.1	
SSK	2.78	208 ePn	31 05.22	-2.2	
KVN	2.85	327 ePn	31 08.66	0.3	
		eS	31 44.91		
PEC	2.91	198 eP	31 09.79	0.7	
PLM	3.37	191 eP	31 16.33	0.5	
MSU	3.62	58 eP	31 19.24	-0.1	
CMB	3.67	293 ePn	31 19.76	-0.2	
DUG	4.36	35 eP	31 30.39	0.6	
SRU	5.04	59 (Pg)	31 54.90	15.5X	

S.D. = 0.8 on 16 of 17 obs.

% MAY 16, 1993 05h 46m 33.10± 1.59s
24.249 S ± 7.3km 65.194 W ±36.8km
DEPTH = 10.0km (geophysicist)
SALTA PROVINCE, ARGENTINA (129)

SLA	0.55	210 iPc	46 43.80	-0.5	
		S	46 51.90		
HJA	1.05	349 iPc	46 52.50	-0.3	
		S	47 05.50		
FSA	1.97	202 iP	47 08.00	1.1	
		(S)	47 34.00		
YJA	2.09	352 ePc	47 09.30	0.3	
		S	47 39.00		
CYA	4.21	187 eP	47 38.20	-0.6	
		S	48 39.30		

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

MAY 16, 1993 06h 34m 22.36± 0.48s
14.135 N ± 7.7km 92.661 W ± 4.6km
DEPTH = 35.4km (4 depth phases)
4.8mb (23 obs.) 4.6Msz (15 obs.)
NEAR COAST OF CHIAPAS, MEXICO (69)

TPX	0.86	27 iP	34 40.50	2.5	
		iS	34 58.00		
BVA	2.03	75 ePc	34 56.29	1.1	
GCG	2.11	77 ePd	34 57.63	1.4	
		eS	35 32.92		
RDG	2.29	67 iP	35 01.15	2.4	
SLP	2.38	75 iPd	35 02.61	2.6	
SCX	2.59	1 iP	35 07.50	4.8X	
		iS	35 44.50		
OXX	4.89	307 eP	35 34.50	-1.2	
		(S)	36 47.00		
IISM	6.61	317 eP	35 59.00	-0 7	
ACX	7.45	292 (P)	36 17.00	5.5X	
PPM	7.53	311 iP	36 14.00	0.9	
		(S)	37 34.50		
IIA	7.61	312 (P)	36 15.00	1.3	
III	7.78	304 eP	36 15.25	-1.1	
UNM	8.11	310 (P)	36 22.00	1.0	
CRX	8.52	309 (P)	36 28.50	1.8	
MRX	9.86	305 (P)	36 45.50	0 6	
CGX	11.72	300 (P)	37 11.00	0.5	
LTX	18.24	328 eP	38 34.38	-0.2	
MIAR	20.34	358 ePd+	38 57.27	-1 1	
	1.1s	54.15nm		4.8mb	
		eS	42 37.88		
BOG	20.62	115 eP	39 06.00	4.2X	
GOGA	20.93	22 eP+	39 04.49	0.0	
	0.8s	20.30nm		4.6mb	
	Z 19s	3.17um		4.7Msz	
MEO	21.24	346 iPc	39 06.50	-1.2	
OLY	21.30	3 eP	39 08.79	0.5	
FNO	21.46	349 iPd	39 10.10	0.2	
OCO	21.73	349 iPc	39 14.30	1.7	
HBF	21.80	29 (P)	39 13.17	-0.1	
		e	39 23.64	40km	

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PRM     21.94   23 eP     39 14.41   -0.3
                  e       39 23.42   32km
SDV     22.20  101 eP     39 17.70    0.1
MYNC    22.22   19 eP+    39 17.66    0.2
        0.8s     19.70nm            4.6mb
     Z  21s       1.79um            4.5Msz
                  eS      43 46.59
JSC     22.56   25 eP     39 20.80    0.1
                  e       39 31.06   39km
GBTN    22.75   18 eP     39 22.02   -0.6
TOV     22.78   98 eP     39 23.30    0.1
TKL     22.87   19 ePc    39 23.50   -0.4
FVM     23.84    4 P      39 40.00    6.8X
     Z  19s       1.43um            4.5Msz
SLM     24.50    5 P      39 50.00   10.4X
     Z  20s       0.68um            4.1Msz
TUC     24.52  321 eP     39 41.22    1.2
        1.3s     26.53nm            4.6mb
     Z  18s       3.00um            4.8Msz
CEH     24 85   27 eP     39 41.94   -1.1
        1.0s     29.72nm            4.8mb
     Z  18s       2.92um            4.8Msz
CAR     25.39   95 iPc    39 48.00   -0.4
NAV     25.39   22 eP     39 46.10   -2.1
BLA     25.44   23 (P)    39 47.54   -1.1
        0 8s     4.86nm             4.1mb
CBN     27.54   27 eP     40 06.00   -1.8
GLD     27.80  339 eP     40 11.47    1.0
        1.6s     41.70nm            4.9mb
MCWV    27.81   22 P      40 20.00    9.7X
     Z  18s       3.71um            5.0Msz
PV08    28.15  333 eP     40 14.51    0.7
PV10    28.17  332 eP     40 13.91    0.0
PV09    28.31  332 eP     40 15.44    0.2
SRU     29.45  331 ePc    40 25.36    0.1
MSU     29.79  328 eP     40 28.81    0.3
ARUT    29.93  326 eP     40 30.18    0.6
EMUT    30.14  331 eP     40 32.15    0.6
DAU     30.82  332 eP     40 38.05    0.4
TPNV    30.97  321 eP     40 40.09    1.3
        1.3s     28.81nm            4.9mb
     Z  18s       4.03um            5.1Msz
DUG     31.39  330 eP     40 42.99    0.5
        0.9s     4.66nm             4.3mb
RSSD    31.43  344 eP     40 42.43   -0.3
        0.6s     5.24nm             4.5mb
     Z  18s       0.63um            4.3Msz
BW06    32.04  336 ePc    40 47.21   -1.0
        1.1s     11.14nm            4.7mb
HVU     32.61  331 eP     40 53.53    0.5
BONR    32.86  321 eP     40 56.54    1.1
                  e       41 05.32   30km
MEMM    33.08  320 (P)    40 58.50    1.6
KVN     33.45  323 (P)    41 01.34    0.9
HRV     33.63   29 P      41 10.00    8.3X
     Z  20s       0.72um            4.4Msz
CMB     34.21  319 eP     41 07.28    0.4
        1 0s     6.22nm             4.5mb
     Z  19s       0.87um            4.5Msz
GAC     34.65   21 eP     41 09.00   -1.5
LCCM    35.52  337 iPc    41 18.60    0.5
ULM     36.11  356 eP     41 27.00    4.2X
LBFM    37.14  322 eP     41 32.82    0.9
CBM     38.60   27 P      41 50.00    6.2X
     Z  21s       1.16um            4.7Msz
ZOBO    38.73  140 P      41 43.30   -2.6
     Z  24s       0.25um            4.0MszX
                  S       47 44.00
                  LR      53 54.00
LP8     38.95  141 eP     41 47.00   -0.5
     Z  16s       1.35um            4.9MszX
                  LR      57 30.00
CNCB    39.24  141 P      41 45.00   -5.1X
NEW     39.59  334 eP     41 52.33    0.2
        0.9s     11.83nm            4.7mb
     Z  19s       2.94um            5.1Msz
LON     40.64  329 eP     42 02.17    1.4
GMW     41.68  329 eP     42 09.58    0.4
MCW     42.47  330 eP     42 15.53   -0.2
SIV     43.25  133 P      42 25.20    2.8
YKA     50.75  347 eP     43 20.20   -0.5
        0.8s     19.50nm            5.1mb
FRB     52.33   13 eP     43 30.50   -2.1
        1.0s     4.00nm             4.3mb
BALM    58.84  334 eP     44 19.82    0.1
INK     60.13  344 ePd    44 28.60    0.2
        1.0s     15.00nm            5.1mb

KLU     60.57  334 ePd    44 31.94    0.3
PMR     62 01  333 eP     44 39.84   -1.3
        1.3s     26.90nm            5.2mb
     Z  18s       0.32um            4.5Msz
PMS     62.06  333 eP     44 40.90   -0.7
SLKM    62.07  332 eP     44 40.65   -1.1
HON     62.28  287 P      44 50.00    6.3X
     Z  18s       0.23um            4.4Msz
FBA     62.87  337 eP     44 45.24   -1.6
        1.0s     8.49nm             4.8mb
RSO     63.23  331 eP     44 48.66   -0.9
CRP     63.23  332 eP     44 48.25   -1.3
MBC     63.70  353 eP     44 51.50   -0.7
        1.0s     9.00nm             4.8mb
SVW     64.77  331 eP     44 57.39   -2.0
        0.9s     9.76nm             4.9mb
TTA     65.49  333 eP     45 02.65   -1.4
        1.0s     6.93nm             4.7mb
IMA     65.59  337 eP     45 03.10   -1.6
DAG     72.65   13 eP     45 45.90   -2.0
DMU     76.22   37 eP     46 06.80   -2.1
EKA     78.23   36 P      46 18.00   -1.9
        1.3s     29.70nm            5 1mb
NB2     84.33   28 P      46 51.60   -0.4
        1.0s     10.30nm            4.9mb
CHTO   145.32  340 ePKP    53 57.40   -1.6
LOE    145.59  335 ePKP    54 01.00    1.5
BDT    146.76  339 ePKP    53 55.00   -6.3X
HYB    147.47   16 ePKP    54 04.50    1.9
NST    147.80  336 ePKP    54 05.00    2.0
KHT    149.18  338 ePKP    54 10.10    4.8X
GBA    150.75   20 PKP     54 13.00    5.4X
      S.D. = 1.2  on  86 of 100 obs.
-----------------------------------------
%  MAY  16, 1993  07h 29m 29.85± 1.06s
   39.072 N ± 7.7km   27.692 E ±12.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      ML 2.8 (ISK).

IZM      0.75  207 ePg    29 44.60    0.0
                   eSg    29 58.00
EDC      1.28    6 ePn    29 53.50   -0.1
KCT      1.28   23 ePn    29 53.70    0.1
BNT      1.29    8 ePn    29 53.80    0.0
EZN      1.30  306 iPn    29 53.90    0.0
      S.D. = 0.1  on   5 of   5 obs.
-----------------------------------------
&  MAY  16, 1993  08h 05m 25.30s
   63.814 N          148.456 W
   DEPTH = 105.2km
   3.6mb (  1 obs.)
 CENTRAL ALASKA                      (  1)
      <AEIC>.

MCK      0.23  249 iPc    05 40.1B    1.5
                   eS     05 52.02
RND      0.45  204 iPc    05 41.17   -0.4
                   eS     05 53.1B
WRH      0.68   14 iPd    05 43.09   -0.2
                   eS     05 56.42
NEA      0.81  341 iPd    05 44.02   -0.5
                   eS     05 58.05
CCB      0.88   18 iPd    05 44.77   -0.4
                   eS     05 59.29
HDA      0.89   47 iPd    05 44.87   -0.4
TRF      0.90  247 iPc    05 45.22   -0.3
HUR      0.99  213 iPc    05 45.84   -0.5
                   eS     06 02.62
FBA      1.13   15 iPd    05 47.09   -0.7
MDM      1.15    5 iPd    05 47.77   -0.4
                   eS     06 04.98
GLM      1.27   21 iPd    05 48.84   -0.6
                   eS     06 06.95
THY      1.27  107 eP     05 49.92    0.4
                   eS     06 09.31
MLY      1.57  322 iPd    05 52.68   -0.5
PAX      1.59  121 ePd    05 52.92   -0.5
SDG      1.85  133 ePd    05 55.94   -0.7
SML      2.01  178 iPd    05 58.26   -0.5
SCM      2 05  165 iPd    05 58.59   -0.8
                   eS     06 24.80
GHO      2.06  186 ePd    05 58.85   -0.6
                   eS     06 25.83
PRP      2.13   35 iPd    05 59.83   -0.5
                   eS     06 26.56
PLRM     2.25  188 ePd    06 01.88    0.0

                   eS     06 31.32
PMR      2.25  188 ePc    06 00.45   -1.4
                   eS     06 25.54
TZL      2.25  141 ePd    06 01.26   -0.6
PWA      2.27  197 P      06 01.70   -0 4
SKT      2.32  219 ePc    06 01.65   -1.1
                   eS     06 30.12
TMW      2.49   99 eP     06 04.09   -1.0
SUA      2.58  205 ePc    06 05.79   -0.6
KLU      2.61  152 ePd    06 05.15   -1.5
                   eS     06 38.04
PMS      2.63  192 P      06 06.30   -0.7
VLZ      2.87  159 iPd    06 07.74   -2.3
PTE      2.97  185 eP     06 10.69   -0.8
                   eS     06 45.60
CGLM     3.01  215 eP     06 12.78    0.7
CRP      3.08  216 eP     06 11.32   -1.8
FYU      3.08   25 iPd    06 11.99   -1.0
CPAM     3.08  215 ePc    06 12.09   -1.1
CP2      3.10  216 eP     06 12.16   -1.3
CKN      3.12  215 eP     06 13.01   -0.6
SPU      3.13  214 eP     06 12.73   -0.9
BGL      3.14  217 ePc    06 13.68   -0.3
CKT      3.15  215 eP     06 13.05   -0.9
IMA      3.17  318 ePd    06 12.95   -1.4
CKL      3.18  216 ePc    06 13.48   -1.0
GLB      3.20  136 eP     06 13.11   -1.6
                   eS     06 52.14
NKA      3.35  204 ePc    06 18.06    1.5
MPA      3.36  188 ePd    06 15.56   -1.3
SLKM     3.42  195 iPd    06 16.70   -1.0
                   eS     06 57.33
CVA      3.52  158 eP     06 16.80   -2.1
TTA      3.52  259 ePc    06 17.24   -1.B
HIN      3.55  164 ePd    06 17.11   -2.3
SEW      3.75  188 eP     06 20.60   -1.5
DFR      3.79  213 iPc    06 22.40   -0 4
RAGM     3.87  151 eP     06 22.09   -1 7
NCT      3.88  215 eP     06 23.55   -0.4
REF      3.89  213 iP     06 23.67   -0 5
RSO      3.92  213 eP     06 23.84   -0.8
CROM     3.95  139 eP     06 23.34   -1 7
BALM     3.98  132 eP     06 23.71   -1.7
TGL      4.04  137 eP     06 23.82   -2.4
BRLK     4.22  197 eP     06 27.45   -1.2
SVW      4.29  234 eP     06 27.22   -2.4
KAIM     4.34  152 P      06 26.60   -3.6
INE      4.35  212 eP     06 29.11   -1.4
INW      4.36  213 eP     06 30.04   -0.5
CTGM     4.38  128 eP     06 30.06   -0.8
CNPM     4.50  198 iPd    06 30.89   -1.6
SNH      4.51  141 eP     06 30.27   -2.2
MID      4.52  166 P      06 31.60   -1.0
YAH      4.68  135 eP     06 32.73   -2.4
CYK      4.69  140 eP     06 33.17   -1.7
OPT      4.75  211 P      06 35.50   -0.4
PDB      4.87  217 eP     06 36.10   -1.4
AUL      5.04  210 eP     06 38.79   -1.1
AUE      5.05  210 eP     06 38.49   -1.4
AUH      5.06  210 eP     06 38.91   -1.3
AUI      5.08  210 eP     06 39.13   -1.3
MCNL     5.43  214 iPc    06 43.71   -1.5
CDD      5.50  209 iPd    06 43.85   -2.3
SYI      5.56  202 eP     06 44.49   -2.4
KDC      6.40  200 eP     06 54.02   -4.4
INK      7.55   47 eP     07 13.00   -1.2
        0.7s      5.00nm            4.2mb X
YKA     15.24   80 eP     08 56.70    1.0
        0.6s      2.10nm            3.6mb
MBC     15.65   26 eP     09 00.50   -0.2
FRB     33.15   53 eP     11 50.00   -2.8
        82 obs. associated
-----------------------------------------
?  MAY  16, 1993  08h 35m 27.11± 1.00s
   31.448 S ±56.2km   68.708 W ±19.1km
   DEPTH = 100.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA        (137)

RTCB     0.09  244 iPd    35 41.50   -0.1
                   S      35 51.70
RTLL     0.24   60 iPc    35 42.00    0.1
                   S      35 52.20
CFA      0.43  112 ePc    35 42.70    0.0
                   S      35 55.20
RTBS     0.67  251 ePd    35 44.50    0.0
                   S      35 57.20
      S.D. = 0.1  on   4 of   4 obs.
```

? MAY 16, 1993 09h 05m 58.65± 0.57s
23.101 N ± 6.7km 86.982 E ± 6.8km
DEPTH = 33.0km (normal)
4.6mb (7 obs.)
SOUTHERN INDIA (314)

PKI	4.67	343	P	07	10.00	1.0
DMN	4.80	340	P	07	12.00	1.3
GUN	4.89	348	P	07	12.80	0.7
KKN	4.92	342	P	07	13.20	0.8
SHL	5.10	60	iPnd	07	12.50	-2.5
			eSn	08	06.00	
GKN	5.32	337	P	07	18.60	0.6
HYB	9.72	236	iPc	08	20.50	1.1
	0.8s	107.70nm			6.1mb X	
			eS	10	04.50	
NDI	10.40	304	iPnc	08	26.90	-1.7
			iSn	10	16.00	
			iSg	11	21.00	
CHTO	11.96	109	eP	08	47.80	-2.1
GBA	13.08	225	P	09	05.00	0.2
			S	11	24.00	
POO	13.09	252	iP	09	04.00	-1.0
			iS	11	25.00	
KHT	13.74	125	iPd	09	14.30	0.8
BOM	13.87	255	eP	09	13.80	-1.4
			eS	11	38.80	
KMI	14.53	79	Pc	09	32.00	7.9X
	1.8s	40.00nm			4.6mb	
KOD	15.70	217	eP	09	40.00	0.6
			eS	12	24.00	
QUE	19.23	296	eP	10	21.40	-1.8
			eS	13	49.40	
LZH	19 52	45	eP	10	26.50	0.1
	1.5s	54.00nm			4.6mb	
Z	18s	0	34um		5.1Msz	
			pP	10	35.00	34kmX
			sP	10	38.00	
VRI	53.25	311	eP	15	29.00	12.7X
MLR	53.78	310	eP	15	24.00	3.7X
WRA	62 97	129	P	16	26.80	2.2X
	0.6s	2.30nm			4.5mb	
WB2	62.98	129	iPd	16	26.50	1.8
	0.6s	3.80nm			4.7mb	
NB2	63.19	328	P	16	30.00	4.4X
	0.8s	1.80nm			4.2mb	
ASPA	65.11	132	iPc	16	40.20	1.6
	0.7s	5.20nm			4.7mb	
BCAO	68.46	266	iPd	17	05 00	4.9X
	1.6s	52.00nm			5.4mb	
			ic	17	39.10	
YKA	92.98	10	eP	19	18.50	8.8X
	0.4s	0.10nm			3.6mb X	
S.D. = 1.5 on 18 of 25 obs.						

% MAY 16, 1993 09h 08m 46.96± 1.03s
39.081 N ± 7.5km 27.659 E ±12.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

IZM	0.75	205	ePg	09	01.60	-0.1
			eSg	09	13.60	
EZN	1.27	306	iPn	09	11.00	0.4
EDC	1.27	7	iPn	09	10.50	-0.1
KCT	1.29	25	iPn	09	11.40	0.6
BNT	1.29	9	iPn	09	10.70	-0.2
KGT	1.40	349	ePn	09	11.70	-0.7
S.D. = 0.6 on 6 of 6 obs.						

% MAY 16, 1993 09h 21m 59.29± 1.76s
33.098 S ±10.8km 71.519 W ±14.5km
DEPTH = 33.0km (normal)
NEAR COAST OF CENTRAL CHILE (135)
MD 3.7 (SAN).

LCCH	0 38	186	iP	22	08.31	0.2
			iS	22	14.67	
ROCH	0.45	74	iP	22	09.33	0.0
			iS	22	16.63	
PEL	0.70	94	iP	22	13.05	0.3
			iS	22	23.18	
TACH	0.74	139	eP	22	13.12	-0.1
LNV	0 86	174	iP	22	14.81	-0.1
JACH	0.88	62	iP	22	15.23	-0.2
			iS	22	27.20	
PCH	0.99	122	iP	22	16.79	-0.2
			iS	22	29.28	
FCH	1 06	103	iP	22	18.27	0.2
			iS	22	32.58	
CHCH	1.10	139	iP	22	18.55	0 0
			iS	22	33.33	
S.D. = 0.2 on 9 of 9 obs.						

MAY 16, 1993 09h 25m 55.91± 0.58s
14.046 N ± 8.6km 92.653 W ± 6.2km
DEPTH = 33.0km (normal)
4.5mb (14 obs.) 3.9Msz (1 obs.)
NEAR COAST OF CHIAPAS, MEXICO (69)

TPX	0.93	24	iP	26	15.50	2.8
			iS	26	33.50	
SCX	2.67	0	eP	26	42.25	4.7X
			iS	27	19.50	
OXX	4.95	308	eP	27	10.50	0.4
			(S)	28	17.00	
IISM	6.68	318	eP	27	33.00	-1.3
			(S)	28	50.00	
ACX	7.49	293	(P)	27	44.00	-1.7
PPM	7.60	312	eP	27	46.50	-1.1
IIA	7.67	312	(P)	27	52.00	3.8X
III	7.83	304	eP	27	50.00	-0.7
UNM	8.17	311	(P)	27	58.50	3.1
CRX	8.58	309	(P)	28	01.50	0.3
MRX	9 92	306	(P)	28	20.00	0.7
CGX	11.77	300	(P)	28	45.00	0.2
LTX	1B.31	328	eP	30	09.82	0.6
MIAR	20.43	358	eP	30	31.36	-1.7
	0.9s	27.84nm			4.6mb	
BOG	20.58	115	eP	30	40.00	4.9X
GOGA	21.01	22	eP	30	3B.03	-1.0
	1.0s	21.92nm			4.5mb	
MEO	21.33	346	iPc	30	41.60	-0.8
OLY	21.39	3	eP	30	42.97	0.0
OCO	21.82	349	iPc	30	49.40	2.1
PRM	22.02	23	eP	30	49.75	0.5
SGS	22.03	28	(P)	30	47.47	-1.8
SDV	22.17	101	eP	30	53.70	2.6
JSC	22.63	25	eP	30	54.75	-0.5
			e	31	05.86	
TOV	22.76	98	eP	30	59.00	2.3
GBTN	22.83	18	eP	30	57.82	0.6
TKL	22.95	19	eP	30	57.84	-0.6
ACO	23.29	347	iPc	31	01.80	0.0
ELC	23.34	7	eP	31	02.51	0.3
			e	31	15.77	
ALO	24.25	331	eP	31	12.13	0.9
	1.0s	8.65nm			4 3mb	
TUC	24 59	321	(P)	31	15.41	0.9
	1.3s	29.03nm			4.7mb	
CEH	24.93	27	P	31	16.76	-0.8
	0.2s	11 07nm			5.1mb	
CAR	25.38	95	eP	31	28.00	5.9X
NAV	25.47	22	(P)	31	20.10	-2.6
CBN	27.62	27	eP	31	41.50	-0.8
	1.0s	10.00nm			4.4mb	
			e	32	09.00	
GLA	27.66	317	(P)	31	39.45	-3.5X
GLD	27.89	339	eP	31	47.14	2.1
	1.3s	15.50nm			4.5mb	
GOL	27.90	339	eP	31	45.49	0.3
	1.0s	11.11nm			4.5mb	
			PcP	35	04.98	
			e	35	20.03	
PV08	28.24	333	eP	31	48.45	0.1
PV10	28.25	332	eP	31	48.63	0.2
PV09	28.39	332	eP	31	50.45	0.7
PLM	29.21	315	(P)	31	58.46	1.4
DAU	30.90	332	(P)	32	11.09	-1.0
DUG	31.47	330	(P)	32	14.32	-2.6
	1.6s	13.08nm			4.5mb	
RSSD	31.51	344	(P)	32	16.95	-0.4
	0.5s	1.98nm			4.2mb	
BW06	32.13	336	(P)	32	21.66	-1.1
	1.2s	9.67nm			4 6mb	
HVU	32.69	332	eP	32	27.95	0.4
BONR	32.94	321	(P)	32	29.42	-0.5
MMPM	33.17	320	(P)	32	34.17	2.2
LCCM	35.60	337	eP	32	52.90	0.3
LBFM	37.22	323	(P)	33	04.54	-1 8
ZOBO	38.66	140	P	33	18.10	-1.0
Z	22s	0.19um			3.9Msz	
			S	39	28.00	
			LR	45	32.00	
LPB	38.88	141	eP	33	21.00	0.3
CNCB	39.16	141	P	33	20.00	-3.3X
LON	40.72	329	(P)	33	36.59	1.4
CCH	40.75	139	eP	33	35.00	-1.0
MCW	42.56	330	(P)	33	49.84	-0.4
YKA	50.84	347	eP	34	54.80	-0.4
	1.0s	16.30nm			5.0mb	
BALM	58.92	334	(P)	35	54.72	0.6
KLU	60.65	334	(P)	36	06.65	0.6
FBA	62.95	337	(P)	36	16.98	-4.3X
	0.9s	4.90nm			4.6mb	
DMU	76.29	37	eP	37	41.60	-1.5
NSD	86.06	23	eP	38	33.40	-0.9
	0.4s	0.70nm			4.2mb	
CHTO	145.41	340	ePKP	45	32.50	-0.5
HYB	147.56	16	ePKP	45	40.00	3.4X
KHT	149.27	338	ePKP	45	35.50	-3.8X
GBA	150.83	20	PKP	45	48.00	6.4X
S.D. = 1.3 on 56 of 66 obs.						

* MAY 16, 1993 09h 50m 21.34± 2.18s
14.149 N ±29.5km 92.773 W ± 8.4km
DEPTH = 33.0km (normal)
4.1mb (5 obs.)
NEAR COAST OF CHIAPAS, MEXICO (69)

TPX	0.90	33	eP	50	38.50	0.9
			iS	51	11.50	
BVA	2.13	76	iP	50	54.14	-1.5
GCG	2.21	78	ePd	50	59.10	2.5X
RDG	2.39	69	iPc	51	01.30	2.1
SLP	2.48	76	iP	51	01.09	0.6
			iS	51	40.13	
SCX	2.58	3	(P)	51	07.00	5.4X
			(S)	51	40.00	
OXX	4.79	308	(P)	51	36.50	3.2X
IISM	6.53	318	(P)	52	05.00	7.4X
PPM	7.44	312	(P)	52	11.00	0.1
III	7.6B	304	(P)	52	15.00	1.0
LTX	18.17	328	eP	54	33.75	0.9
MIAR	20.32	358	eP	54	55.67	-1.7
	1.1s	11.63nm			4.1mb	
GOGA	20.96	22	eP	55	02.85	-1.1
	0.9s	7.51nm			4.1mb	
ACO	23.17	347	iPc	55	26.10	0.1
ALO	24.11	332	eP	55	36.00	0.7
	1.0s	4.13nm			3.9mb	
PV08	28.09	333	eP	56	13.11	0.6
PV10	28.10	332	(P)	56	11.91	-0.6
DAU	30.76	332	(P)	56	36.63	0.3
BW06	31.99	336	eP	56	46.20	-0.8
	1.2s	2.05nm			3.9mb	
LCCM	35.46	337	eP	57	17.60	0.7
YKA	50.71	347	eP	59	17.20	-2.5
	0.9s	4.90nm			4.5mb	
S.D. = 1.3 on 17 of 21 obs.						

& MAY 16, 1993 10h 13m 28.06s
33.980 N 116.371 W
DEPTH = 5.4km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 3.1 (PAS).

PEC	0.66	263	iPc	13	40.27	-1.1
			eS	13	47.96	
PLM	0.75	213	iPd	13	42.05	-1.0
			eS	13	51.00	
SSK	1.12	282	ePc	13	48.45	-1.2
			eS	14	04.13	
GSC	1.37	345	eP	13	52.68	-1.1
GLA	1.59	125	ePn	13	54.70	-2.2
			ePg	13	57.16	
ISA	2.41	315	ePn	14	06.72	-2.1
			ePg	14	11.78	
ABL	2.51	291	ePn	14	08.98	-1.4
TPNV	2.96	2	ePn	14	12.58	-4.2
BCH	3.29	292	ePn	14	20.77	-0.6
MEMM	4.23	331	(Pn)	14	34.02	-0.5
BONR	4.26	339	(Pn)	14	34.03	-1.3
			ePg	14	51.73	
MSU	5.65	36	(Pn)	14	56.68	1.7
12 obs. associated						

? MAY 16, 1993 10h 29m 33.74± 1.06s
45.584 N ± 6.7km 26.560 E ± 9.3km
DEPTH = 10.0km (geophysicist)

ROMANIA (358)

VRI	0.31	22	iPc	29 40.00	-0.2
BRD	0.35	101	eP	29 45.00	4.0X
CVO	0.36	311	iPc	29 41.50	0.3
MLR	0.44	258	iPc	29 42.50	-0.3
ISR	0.45	181	ePc	29 43.00	0.1

S.D. = 0.5 on 4 of 5 obs.

? MAY 16, 1993 10h 46m 23.36± 1.09s
45.562 N ± 7.1km 26.531 E ± 9.2km
DEPTH = 10.0km (geophysicist)

ROMANIA (358)

VRI	0.34	24	iPc	46 30.00	-0.3
CVO	0.36	316	iPc	46 31.50	0.7
BRD	0.37	97	eP	46 35.00	4.1X
MLR	0.42	261	iPc	46 32.50	0.5
ISR	0.42	179	iPc	46 32.50	0.5
MTUR	1.09	253	eP	46 42.50	-1.4
CMP	1.09	255	ePc	46 49.00	5.1X

S.D. = 1.2 on 5 of 7 obs.

% MAY 16, 1993 11h 34m 37.43± 0.91s
27.952 S ± 6.9km 26.765 E ±11.5km
DEPTH = 5.0km (geophysicist)

REPUBLIC OF SOUTH AFRICA (584)
ML 1.8 (PRE).

SEK	0.84	116	eP	34 54.50	0.2
			S	35 06.00	
PRY	1 20	32	eP	35 00 50	0.2
			S	35 14.00	
BLF	1 26	204	eP	35 01.30	-0.1
			S	35 16.60	
KSR	2 08	3	eP	35 14.00	0.4
			S	35 41.00	
SLR	2 59	32	e(P)	35 20.20	-0.6

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

% MAY 16, 1993 11h 50m 40.46± 0.70s
39.260 N ± 5.4km 27.693 E ± 8.0km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
ML 2.7 (ISK).

IZM	0.92	201	ePg	50 57.60	-0.6
			eSg	51 10 60	
EDC	1.09	7	ePn	51 01 00	0.0
BNT	1.11	9	iPn	51 00.60	-0.7
KCT	1.11	27	iPn	51 01.60	0.3
EZN	1.20	299	ePn	51 03.50	0.7
KGT	1.23	346	ePn	51 03.00	-0.3
KHL	1.71	123	ePn	51 11.00	0.5

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

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* MAY 16, 1993 11h 53m 33.04± 0.47s
23.307 N ± 8.1km 143.727 E ± 8.1km
DEPTH = 33.0km (normal)
4.6mb (10 obs.)

VOLCANO ISLANDS REGION (213)

GUMO	9.73	173	e(P)	55 40.30	-13.5X
			e	55 45.10	
			e(S)	57 42.80	
PJG	9.73	173	e(P)	55 38.70	-15.1X
CHJJ	13.34	343	P	56 40.60	-2.0
MAT	14.03	341	eP	56 51 00	-0.6
			eS	59 21 00	
MTMJ	14.19	340	eP	56 53 80	0.0
NIIJ	14.47	345	eP	56 55 20	-2.1
OFUJ	15.82	354	eP	57 13 90	-1.0
SSE	21.47	296	P	58 21.00	0.2
	1.0s		21.00nm		4.5mb
	Z 20s		0.50um		3.9Msz
			S	02 16.00	
			S	02 22.00	
BJI	28.61	312	eP	59 27.50	-0.9
	Z 16s		29.00um		6.0MszX
LZH	36.66	300	eP	00 40.00	1.2
	1.5s		51.00nm		5.2mb
CHTO	41.91	273	eP	01 22.50	0.2
CTA	43.20	177	iPc	01 30.00	-2.7
WB2	43.95	193	iPc	01 36.10	-2.7
	0 2s		3.50nm		4.8mb
GUN	51.96	288	P	02 42.20	0.4
PKI	52.43	288	P	02 45.80	0.6
KKN	52.51	288	P	02 46.40	0.7
DMN	52.69	288	P	02 47.80	0.7
GKN	53.03	288	P	02 50.60	1.1
	1.0s		36.00nm		5.3mb
SLKM	58.23	32	eP	03 25.09	-1 2
PMR	58.92	31	eP	03 30.41	-0.6
	0.8s		9.83nm		5.0mb
FBA	60.02	27	eP	03 38.11	-0.5
	0.7s		1.71nm		4.3mb
KLU	60.43	31	eP	03 41.83	0.3
INK	65.90	24	eP	04 19.00	1.6
	0.6s		1.00nm		4.1mb
MBC	69.18	15	eP	04 39.00	1.1
	1.0s		1.00nm		3.8mb
MAIO	72.15	302	eP	04 58.00	1.3
YKA	74.80	28	eP	05 11.00	-0.5
	0.7s		2.80nm		4.4mb
GMW	75.43	44	eP	05 15.06	-0.4
NEW	78.76	42	eP	05 33.99	0.0
	1.0s		11.70nm		4.8mb
LCCM	83.02	43	eP	05 57.70	1.0
MSU	86.08	50	eP	06 13.25	0.9
GLA	86.54	56	eP	06 15.73	1.3
SRU	86.96	49	eP	06 17.22	0.7
PV09	88.21	49	eP	06 23.26	0.6
PV10	88.33	49	eP	06 23.48	0.3
ZOBO	149.27	83	PKP	13 22.00	5.1X
LPB	149.37	83	PKP	13 18.00	1.1
CNCB	149.56	84	PKP	13 20.20	2.8X

S.D. = 1.2 on 33 of 37 obs.

? MAY 16, 1993 12h 07m 46.33± 1.36s
14.536 N ±22.4km 92.696 W ±10.3km
DEPTH = 33.0km (normol)
4.3mb (7 obs.)

NEAR COAST OF CHIAPAS, MEXICO (69)

BVA	2.00	86	iPd	08 17.18	-1 5
			iS	08 53.27	
RDG	2.20	77	iPd	08 22.98	1.5
SLP	2.35	85	iPc	08 23.33	-0.2
OXX	4.63	304	(P)	08 24.00	-32.0X
IISM	6.30	315	(P)	08 23.50	-55.9X
PPM	7.25	309	(P)	09 31.50	-1.7
ACX	7.28	290	(P)	09 53.00	19.9X
III	7.54	301	(P)	09 53.50	16.6X
UNM	7.83	308	(P)	10 03.00	21.9X
MRX	9.61	304	(P)	10 09.00	3.5X
MIAR	19.94	358	ePc	12 18.41	0.0
	0.7s		6.33nm		4.0mb
OLY	20.91	3	(P)	12 28.30	-0.1
ACO	22.81	347	iPd	12 47.90	0.4
ALO	23.80	331	eP	12 58.63	1.3
	1.0s		4.63nm		4.0mb
TUC	24.19	320	eP	13 02.88	1.9
	1.2s		10.22nm		4.2mb
PV08	27.78	332	eP	13 34.99	0.3
RSSD	31.03	344	eP	14 03.06	-0.5
ULM	35.71	357	eP	14 47.50	3.8X
YKA	50.35	347	eP	16 34.40	-7.5X
	0.8s		8.20nm		4.8mb
INK	59.74	344	eP	17 49.50	-0.4
	1.0s		3.00nm		4.4mb
FBA	62.49	337	(P)	18 08.14	-0.5
	0.8s		2.26nm		4.4mb
MBC	63.30	353	eP	18 12.50	-1.3
	0.7s		3.00nm		4.5mb
CHTO	144.93	341	ePKP	27 21.90	-0.7
GBA	150.38	20	PKP	27 33.00	1.7

S.D. = 1.2 on 16 of 24 obs.

% MAY 16, 1993 12h 14m 20.67± 1.08s
39.060 N ± 7.5km 27.752 E ±12.5km
DEPTH = 10.0km (geophysicist)

TURKEY (366)
ML 2.8 (ISK).

IZM	0.76	210	ePg	14 35.60	0.0
			eSg	14 48.60	
KCT	1.28	21	ePn	14 44.60	0.3
EDC	1.29	4	ePn	14 44.50	0.0
BNT	1.30	6	iPn	14 44.50	-0.2
EZN	1.34	305	iPn	14 45.50	0.1
KGT	1.43	346	iPn	14 46.60	-0.1

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

MAY 16, 1993 12h 26m 07.71± 1 22s
13.067 S ± 5.8km 166.799 E ± 7.2km
DEPTH = 153.0 ± 10.8 km
5.2mb (34 obs.)

VANUATU ISLANDS (186)

BKM	4.78	163	iPd	27 19.00	-0.1
			iS	28 11.50	
HNR	7.63	298	eP	27 56.00	-1.3
DZM	8.96	182	iPc	28 13.60	-1.5
			iS	29 45.00	
BRS	19.37	221	iPc	30 25.00	1.0
	1.0s		6.00nm		3.9mb X
CTA	20.88	248	iPd	30 39.50	0.2
	1.0s		65.00nm		5.0mb
ARMA	22.24	217	iPd	30 54.00	1.3
	1.0s		150.00nm		5.4mb
BWA	27.02	215	iPc	31 37.30	-0.1
			e	31 59.80	
QIS	27.05	250	eP	31 41.20	3.4X
CNB	27.18	212	eP	31 40.00	1.1
CAN	27.38	213	eP	31 42.50	1.9
STK	29.76	227	iPd	32 02.00	0.1
	1.0s		8.30nm		4.4mb
			iPcP	35 02.80	
TOO	30.94	214	eP	32 11.80	-0.4
	0.6s		13.00nm		4.8mb
			iPcP	35 06.20	
WB2	31.81	253	iPd	32 18.20	-1.8
	0.6s		7.80nm		4.7mb
			iPcP	35 08.40	
WRA	31.82	253	P	32 19.00	-1.1
	1.0s		4.50nm		4.2mb
ASPA	32.88	247	iPd	32 27.90	-1.4
	0.8s		24.90nm		5.0mb
			iPcP	35 10.70	
			eS	37 27.80	
			iPcS	38 54.00	
ADE	33.47	225	eP	32 34.60	0.3
TAU	34.17	206	eP	32 41.00	0.9
MBL	45.47	253	eP	34 14.50	1.1
MEEK	47.02	246	eP	34 26.00	0.3
NWAO	49.23	238	eP	34 42.30	-0.3
MRWA	49.65	243	eP	34 46.20	0.3
MUN	49.90	239	eP	34 47.60	-0.1
KAKJ	55.08	334	P	35 26.20	0.3
CHJJ	55.47	333	P	35 28.70	0.0
IIDJ	55.49	331	eP	35 28.80	-0.2
WKYJ	55.61	329	P	35 30.00	0.2
TKSJ	56.22	327	P	35 33.80	-0.4
MAT	56.23	332	iPc	35 33.30	-0.9
	1.0s		46.00nm		5.4mb
MTMJ	56.45	332	P	35 35.50	-0 4
NIIJ	56.46	333	P	35 35.70	-0.1
TSRJ	56.46	330	P	35 35.80	0.0
KUMJ	56.91	324	P	35 39.50	0.5
OFUJ	56.93	337	P	35 38.60	-0.5
YONJ	57.46	328	P	35 42.80	0.0
SHNJ	57.92	325	P	35 45.80	-0.3
LEM	58.52	270	iPd	35 52.00	1 2
AOMJ	58.71	337	eP	35 52.90	1.4
SSE	62.01	316	Pc	36 13.50	-0.5
	1.0s		53.00nm		5.4mb
YSS	63.58	342	iPc	36 24.00	0.0
	1.0s		80.00nm		5.6mb
SKR	64.15	352	eP	36 26.10	-1.6
	0.7s		60.00nm		5.6mb
IPM	67.62	281	ePd	36 51.80	1.3
BJI	70.69	321	eP	37 09.50	0.8
	1.5s		115.00nm		5.5mb
KMI	73.05	302	Pc+	37 24.50	1.2
	1.5s		30.00nm		4.8mb
	Z 10s		1.50um		5.6MszX
	E 10s		0.50um		
CHTO	73.98	294	ePc	37 29.80	1.3
	1.2s		30.21nm		4.9mb
MGD	74.05	352	eP	37 27.00	-1.0
	1.0s		30.00nm		5.0mb
			e	37 45.00	
LZH	76.87	312	Pc	37 46.80	2.0
	1.5s		172.00nm		5.6mb
			i	37 57.50	
			pP	38 05.00	67kmX
SPA	77.01	180	iPc	37 46.00	1.0
	1.0s		120.50nm		5.6mb
CIT	79.38	330	eP	38 00.50	2.5
SVW	79.71	18	eP	38 00.40	0.8
	1.1s		28.84nm		4.9mb

16d 12h

RSO	80.08	19	eP	38	01.46	-0.3			0.9s	11.30nm							EPRU	155.15	345	ePKP	45	49.00	5.1X
YAK	80.29	343	iPc	38	03.20	0.7	LDF	142.95	346	ePKP	45	22.60	-2.1					S.D. = 1.3 on 145 of 164 obs.						
	1.0s	116.00nm				5.6mb		0.8s	10.35nm														
CP2	80.85	19	eP	38	04.88	-0.9	LOR	143.03	341	iPKPc	45	22.70	-2.2				%	MAY 16, 1993 13h 25m 06.00± 0.83s					
SLKM	80.94	20	eP	38	05.45	-0.6		0.8s	5.50nm									31.337 S ±12.0km 68.496 W ±12.5km					
TTA	81.06	16	eP	38	06.97	0.3	LBF	143.24	340	iPKPc	45	22.90	-2.5					DEPTH = 100.0km (geophysicist)					
	1.1s	9.41nm				4.4mb		0.6s	3.50nm									SAN JUAN PROVINCE, ARGENTINA (137)					
ILT	81.43	5	iPc	38	09.00	0.7	CZI	143.26	320	PKP	45	21.00	-4.5X										
	1.1s	80.00nm				5.4mb	GRR	143.32	346	ePKP	45	23.10	-2.3				RTLL	0.02	73	iPc	25	21.00	0.6
PMR	82.10	20	ePd	38	12.21	0.3		0.9s	17.70nm								RTCB	0.30	240	iPd	25	21.60	0.7
	1.0s	27.41nm				4.9mb	SSF	143.32	341	iPKPc	45	23.30	-2.1				RTBS	0.88	248	iPd	25	25.00	-0.4
BOD	82.73	335	eP	38	16.80	1.5		0.6s	4.35nm								MDZ	1.57	191	eP	25	34.50	0.9
	1.4s	32.00nm				4.9mb	LSD	143.38	336	PKP	45	24.40	-1.5							iS	25	54.80	
KLU	83.11	21	ePc	38	17.88	0.6	LPL	143.50	336	iPKPc	45	24.70	-1.4				TCA	3.34	91	iPc	25	58.00	0.7
ZAK	83.94	325	iPc	38	22.00	0.5		0.9s	13.75nm											S	26	37.30	
	1.2s	90.00nm				5.5mb	LPG	143.51	336	iPKPc	45	24.80	-1.4				RFA	3.42	180	ePc	25	56.80	-1.6
BALM	84.08	22	eP	38	22.09	-0.1		0.8s	14.90nm											S	26	36.00	
IMA	84.17	15	ePc	38	23.44	0.8	PCP	143.54	334	PKP	45	23.07	-2.9				CYA	3.72	40	ePc	26	01.40	-1.0
	1 2s	10.88nm				4.6mb	SMF	143.58	340	ePKP	45	24.10	-1.8							S	26	44.00	
IRK	84.30	327	ePc	38	23.20	-0.1	RSP	143.59	335	PKP	45	23.76	-2.3					S.D. = 1.2 on 7 of 7 obs.					
	1.1s	44.00nm				5.2mb	AVF	143.61	341	ePKP	45	24.20	-1.7										
		e		38	38.00			0.9s	11.45nm								?	MAY 16, 1993 13h 32m 13.86± 1.85s					
ORV	84.60	48	(P)	38	25.69	0.5	BHB	143.84	335	PKP	45	23.89	-2.5					17.325 S ±24.3km 167.396 E ±10.7km					
FBA	84.92	18	iPc	38	26.16	0.0	FIN	143.95	334	PKP	45	24.30	-2.3					DEPTH = 33.0km (normal)					
	0.9s	43.07nm				5.3mb	RRL	143.97	336	PKP	45	26.13	-0.8					VANUATU ISLANDS (186)					
		e		39	13.86		BGF	143.98	341	iPKPc	45	25.60	-1.0										
LBFM	84.99	46	eP	38	28.46	1.1		1 0s	35.60nm								BKM	0.88	113	iPc	32	30.50	0.7
MOY	85.83	325	ePc	38	32.00	1.1	ROB	144.03	334	PKP	45	24.95	-1.9							iS	32	41.50	
	1.5s	48.00nm				5.1mb	PZZ	144.18	335	PKP	45	24.35	-2.8				PVC	0.97	115	iPd	32	30.40	-0.7
GMW	86.79	40	eP	38	36.71	1.0	PLDF	144.25	340	PKP	45	26.94	-0.2							iS	32	41.00	
		i		39	10.15		ENR	144.27	334	PKP	45	24.30	-3.0				DZM	4.81	191	iPc	33	25.90	0.0
MCW	87.21	39	eP	38	38.31	0.6	IMI	144.33	334	PKP	45	26.41	-0.9							iS	34	19.30	
RMW	87.37	40	eP	38	39.74	1.1	AGO	144.34	340	PKP	45	27.10	-0.1				ASPA	31.95	253	iPc	38	39.10	0.0
GLA	87.54	55	eP	38	40.95	1.2	MAF	144.37	341	iPKPc	45	27.20	-0.1					0.5s	3.60nm			4.5mb	
TIK	88.25	349	iPc	38	43.00	0.8		1.2s	69.60nm									S.D. = 1.0 on 4 of 4 obs.					
	2.0s	115.00nm				5.5mb	SAOF	144.41	334	PKP	45	26.94	-0.5										
		e		39	29.00		TCF	144.42	342	iPKPc	45	27.30	-0.1				•	MAY 16, 1993 13h 46m 52.00± 0.61s					
PKI	88.51	299	P	38	45.60	0.7		0.8s	38.70nm									25.966 S ±12.8km 175.805 W ±14.0km					
	1.1s	81.00nm				5.7mb	AUTN	144.46	334	PKP	45	27.42	-0.3					DEPTH = 33.0km (normal)					
NEW	90.60	40	(P)	38	53.97	0.2	TOUF	144.52	334	PKP	45	27.42	-0.4					4.6mb (5 obs.)					
	0.9s	8.54nm				4.8mb	SSB	144.52	338	PKP	45	28.05	0.5					SOUTH OF TONGA ISLANDS (175)					
MSU	91.15	51	eP	38	58.53	1.8	SBF	144.56	334	PKP	45	27 42	-0.3										
		e		39	29.92		AURF	144.59	334	PKP	45	27.42	-0.4				RAO	3.77	209	eP	47	49.00	-0.2
HYB	92.20	287	eP	39	03.00	1.3	COLF	144.62	339	PKP	45	28.39	0.6							S	48	34.30	
PV10	93.50	52	(P)	39	07.90	0.3	PYM	144.64	340	PKP	45	28.15	0.3				ASPA	45.48	262	eP	55	10.80	0.6
PV08	93.84	51	(P)	39	10.46	1.2	LSF	144.66	342	iPKPc	45	27.90	0.2					0.6s	6.80nm			4.7mb	
ELT	94.78	324	iPc	39	13.00	0.3		0.7s	47.60nm								WB2	46.07	267	eP	55	14.50	-0.3
	1.3s	53.00nm				5.7mb	MFF	144.81	344	iPKPc	45	28.40	0.4					0.7s	15.30nm			5.0mb	
YKA	96.29	27	eP	39	18.10	-1.3		0.8s	100 45nm								WRA	46.08	267	P	55	15.10	0.2
	0.8s	2.50nm				4.7mb	CALN	144.88	334	PKP	45	28.40	0.0					0.7s	5.10nm			4.6mb	
NRI	98.19	339	eP	39	27.00	-0.9	PGF	144.89	331	iPKPc	45	28.80	0.4				SPA	64.18	180	iPd	57	25.90	0.3
	1.0s	15.00nm				5.5mb		1.2s	128.55nm									1.0s	2.00nm			4.2mb	
MBC	98.81	13	eP	39	33.00	2.4	MNO	144.94	320	PKP	45	29.40	0.7				ALQ	89.28	50	eP	59	47.00	0.5
KAF	123.49	339	iPKP	44	48.00	0.2	LBL	145.02	340	PKP	45	29.87	1.4					1.0s	2.25nm			4.4mb	
	0.4s	2.70nm					FRF	145.14	334	iPKPc	45	29.40	0.8				CHTO	93.96	289	eP	00	13.90	5.8X
NUR	125.16	338	iPKP	44	51.70	0.6		1.2s	114.85nm								NB2	144.61	354	PKP	06	26.00	-0.3
	0.6s	5.20nm					MEU	145.28	319	PKP	45	30.60	1.4					0.9s	7.50nm				
MTD	126.73	237	iPKPc	44	50.10	-5.5X	LRG	145.35	335	iPKPc	45	30.30	1.4				UPP	144.87	348	iPKP	06	25.70	-0.9
BUL	127.26	232	iPKPc	44	57.30	0.7		1.3s	110.45nm								HFS	145.22	352	ePKP	06	27.40	0.1
	1.0s	20.00nm					LMR	145.38	334	iPKPc	45	30.20	1.2					0.5s	2.90nm				
NB2	128.91	345	PKP	44	59.00	0.6		0.6s	17.05nm									S.D. = 0.6 on 9 of 10 obs.					
	0.9s	6.90nm					CDR	145.41	335	iPKP	45	30.00	0.9										
HFS	129.01	343	ePKP	44	58.90	0 4	RJF	145.52	342	iPKPc	45	31.30	2.1				&	MAY 16, 1993 13h 55m 55.58s					
	0.4s	0.70nm						1.1s	65.70nm									36.109 N 117.699 W					
KSP	135.35	334	ePKP	45	12.00	1.1	CAF	145.68	341	iPKPc	45	31.60	2.0					DEPTH = 2.8km					
		e		47	50.00			1.1s	44.20nm									CALIFORNIA-NEVADA BORDER REGION (40)					
BRG	136.32	335	e(PKP)	45	14.20	1 5	LFF	146.08	342	iPKPc	45	32.60	2.5					<PAS-P>. ML 2.6 (PAS), 2.5 (GS).					
CLL	136.36	336	ePKP	45	11.00	-1.7		1.0s	41.60nm														
PRU	136.74	334	ePKP	45	13.00	-0.5	LPO	146.18	341	iPKPc	45	33.00	2.7X				ISA	0.77	235	eP	56	10.02	-1.0
		e		45	16.00			1.0s	31.20nm											eS	56	20.30	
KHC	137.80	334	PKP	45	16.50	0.9	MTHF	147.27	338	PKP	45	36.42	4.2X				GSC	1.09	138	eP	56	15.52	-1.2
		e		45	26.00		LSPF	147.49	339	PKP	45	36.86	4.4X							eS	56	30.96	
		e		47	54.00		BCAO	147.52	258	iPKPd	45	34.00	0.6				TPNV	1.44	54	eP	56	22.05	-0.7
		e		48	43.50			0.2s	156.00nm								MMPM	1.84	325	eP	56	29.28	0.6
GEC2	137.96	333	PKP	45	07.10	-8.9X				ic	45	37.10								eS	56	53.00	
	1.4s	1.88nm								ic	46	03.50					MEMM	1.85	328	eP	56	29.58	1.2
		e		45	11.90		LESF	147.63	340	PKP	45	37.35	4.6X							eS	56	53.48	
		e		45	16.70		EGRA	148.89	341	ePKP	45	34.70	0.0				SSK	1.89	180	eP	56	27.98	-1.3
		e		48	43.50		ECRI	149.14	345	ePKP	45	41.80	6.6X				BONR	1.90	346	eP	56	30.21	0.6
GRF	138.33	336	ePKP	45	20.00	3.5X	STS	150.02	353	ePKP	45	42.00	5.6X							eS	56	55.70	
SKO	138.38	320	ePKP	45	09.50	-7.4X	ETOR	150.68	343	iPKPd	45	45.10	7.5X				PKEM	1.95	269	(P)	56	31.22	1.2
SFI	142.49	330	PKP	45	21.70	-2.4	GUD	151.41	346	ePKP	45	41.00	2.3				TNP	2.01	11	eP	56	31.98	1.0
PGD	142.58	330	PKP	45	21.90	-2.6	EPLA	152.39	348	ePKP	45	49 20	9.1X				BCH	2.15	245	eP	56	33.71	0.8
ROI	142.78	321	PKP	45	23.40	-1.4	EVIA	152.82	341	ePKP	45	42.20	1.4				PEC	2.26	169	(P)	56	31.71	-2.7
CSI	142.83	321	PKP	45	21.30	-3.6X	ELUQ	154.34	343	ePKP	45	46.00	3.1X				CMB	2.88	313	eP	56	45.35	2.0
FIR	142.88	330	ePKP	45	23.00	-1.7	EGUA	154.81	342	ePKP	45	53.20	9.8X							eS	57	23.70	
FLN	142.88	346	iPKPc	45	21.10	-3.5X	EVAL	154.91	348	ePKP	45	43.50	0.0				MSU	5.02	60	(Pn)	57	12.37	-1.4

13 obs. associated

* MAY 16, 1993 14h 51m 22.03± 0.81s
24.232 N ±12.1km 122.473 E ±16.0km
DEPTH = 33.0km (normal)
4.1mb (6 obs.)
TAIWAN REGION (243)

SSE		6.93	351	Pc	53 03.50	-0.4
	Z	14s		0.90um		
	N	12s		0.30um		
				S	54 33.50	
LZH		19.94	311	eP	55 54.50	0.3
		1.3s		26.00nm	4.4mb	
	Z	16s		0.49um	5.2Msz	
				pP	56 06.00	51kmX
CHTO		22.53	261	eP	56 20.50	0.0
WRA		45.40	164	P	59 39.20	-0.3
		1.0s		0.70nm	3.5mb	
WB2		45.41	164	eP	59 44.40	4.9X
		0.6s		5.30nm	4.6mb	
INK		72.74	22	eP	02 50.00	1.6
		0.8s		1.00nm	3.9mb	
MBC		72.96	13	eP	02 48.00	-1.6
YKA		82.47	23	eP	03 42.60	0.4
		0.8s		2.00nm	4.2mb	
GEC2		83.55	321	P	03 48.20	0.0
		0.6s		0.93nm	4.1mb	
FCC		91.94	18	eP	04 35.00	6.7X
	S	D. = 1.0	on	8 of	10 obs.	

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* MAY 16, 1993 14h 59m 54.95± 0.45s
4.431 S ±18 2km 80.631 W ±25.9km
DEPTH = 84.9km (3 depth phases)
4.6mb (11 obs.)
PERU-ECUADOR BORDER REGION (110)

NNA		8.39	154	iPc	01 54.30	-1.7
		0 8s		26.12nm	5.0mb	
				eS	03 25.00	
ARE		14.95	144	eP	03 27.00	3.6X
ZOBO		17.01	135	iPc	03 49.60	0.1
		1 2s		67.23nm	4.7mb	
	Z	24s		0.20um	4.1Msz	
				LR	10 06.00	
LPB		17.20	135	P	03 52.90	1.1
		1.0s		72.00nm	4.9mb	
CNCB		17.47	136	iPd	03 54.00	-1.3
CCH		19.17	133	eP	04 16.00	1.0
YJA		22.93	142	e(P)	04 57.00	3.9X
HJA		23.77	143	e(P)	05 04.50	3.8X
MIAR		40 64	344	eP	07 28.05	-0.2
MEO		42.51	338	iPd	07 43.40	-0.2
ALO		46.09	330	eP	08 12.80	0.3
				e	08 33.10	83km
GOL		49.47	335	eP	08 41.70	2.8
		1.0s		9.00nm	4.7mb	
				pP	09 03.10	88km
PV08		50.04	331	eP	08 43.44	0.1
DUG		53.34	329	ePc	09 07.97	0.1
		1.4s		15.77nm	4.9mb	
BW06		53.80	334	(P)	09 09.27	-2.0
		1.0s		5.35nm	4.5mb	
TNP		54.22	325	eP	09 14.62	0.2
		0.8s		3.80nm	4.5mb	
LCCM		57.24	334	eP	09 35.80	-0.2
ORV		57.71	323	(P)	09 39.17	0.0
LBFM		59.08	325	ePc	09 48.59	-0.4
RMW		63.07	330	eP	10 14.34	-1.2
BMW		63.14	328	eP	10 16.07	0.0
GMW		63.62	330	eP	10 17.98	-1.1
FCC		63.90	352	eP	10 26.00	5.3X
MCW		64.40	330	eP	10 24.48	0.3
YKA		71.58	344	eP	11 06.60	-2.0
		0.9s		3.10nm	4.2mb	
LIC		76.22	83	P	11 53.30	16.9X
TIC		76.27	82	P	11 53.80	17.1X
KIC		76.52	82	P	11 55.20	17.1X
INK		81.23	343	eP	12 04.00	1.5
		1.0s		4.00nm	4.3mb	
				pP	12 21.50	63kmX
KLU		82.38	334	(P)	12 08.80	0.1
MBC		83.59	351	eP	12 15.50	0.9
		1 0s		8.00nm	4.6mb	
				pP	12 38.00	84km
SPA		85.60	180	iPd	12 26.30	1.2
		1 1s		3.57nm	4.3mb	
WRA		137.95	234	PKP	19 13.40	0.9
		0.8s		1.50nm		
	S	D. = 1.2	on	26 of	33 obs.	

MAY 16, 1993 15h 08m 33.84± 0.67s
40.091 S ± 5.1km 177.032 E ± 8.6km
DEPTH = 53.4 ± 9.3 km
OFF E. COAST OF N. ISLAND, N.Z. (160)

TEHZ		0.20	301	Pc	08 43.50	0.9
TTH		0.57	344	P	08 46.30	0.1
WAHZ		0.65	307	Pc	08 46.90	-0.4
PGZ		0.78	227	P	08 51.90	3.0X
MOH		0.96	5	Pd	08 51.70	0.4
TAHZ		0.98	347	P	08 52.00	0.3
MAHZ		1.11	36	P	08 54.90	1.5
PAHZ		1.23	1	Pc	08 55.20	0.2
WHH		1.27	341	P	08 55.60	-0.1
MNG		1.30	246	P	08 57.60	1.7
				S	09 13.60	
MTW		1.58	227	P	09 01.30	1.4
NOZ		1.66	28	P	09 01.40	0.4
BLW		1.74	222	P	09 03.80	1.7
KIW		1.79	244	P	09 04.20	1.3
CAW		1.81	235	P	09 04.20	1.1
PATZ		1.81	340	P	09 03.30	0.1
URZ		1.83	2	P	09 02.70	-0.7
				eS	09 22.80	
MOW		1.90	225	P	09 05.20	0.9
TAZ		1.90	347	P	09 04.20	-0.1
UTU		2.02	341	P	09 05.80	-0.3
WEL		2.09	235	P	09 07.90	0.8
				eS	09 33.50	
MRW		2.11	236	P	09 08.00	0.7
				eS	09 32.80	
PUZ		2.23	26	P	09 08.20	-0.8
				eS	09 32.80	
MOZ		2.34	312	P	09 10.50	-0.1
TCW		2.38	241	P	09 11.40	0.3
DIW		2.48	252	P	09 12.90	0.3
WLZ		2.48	333	P	09 12.20	-0.4
HBZ		2.68	22	P	09 14.60	-0.7
KUZ		3.49	342	P	09 25.80	-1.2
KHZ		3.51	227	P	09 26.00	-1.2
				eS	10 06.20	
ORZ		3.51	256	P	09 26.40	-0.9
				eS	10 04.40	
THZ		3.55	241	P	09 27.10	-0.7
				eS	10 07.80	
DSZ		4.29	246	P	09 36.90	-1.4
MQZ		4.87	221	P	09 45.10	-1.3
				S	10 36.70	
OUZ		5.57	330	P	09 55.40	-0.8
EWZ		5.74	231	eP	09 56.80	-1.8
ODZ		6.84	222	eP	10 11.20	-2.7
				eS	11 23.10	
LRCZ		7.54	226	eP	10 20.70	-3.2X
SBCZ		7.58	226	eP	10 21.00	-3.3X
CMCZ		7.63	226	eP	10 21.90	-3.2X
				eS	11 43.80	
TLC		7.77	226	eP	10 23.60	-3.4X
TUZ		7.98	220	eP	10 27.60	-2.1
ASPA		39.70	281	eP	16 04.70	2.1
WRA		41.58	286	P	16 19.60	1.5
		0.6s		0.40nm	3.3mb	
	S	D. = 1.2	an	39 of	44 abs.	

& MAY 16, 1993 15h 30m 19.39s
28.810 N 98.170 W
DEPTH = 5.0km (geophysicist)
SOUTHERN TEXAS (519)
<MACRO>. mbLg 3.0 (GS). Felt (IV) at Jourdanton and (II) at Three Rivers.

MTX		4.67	290	Pn	31 34.90	2.5
LTX		4.84	278	ePn	31 33.91	-0.8
				ePg	31 51.24	
				eS	32 45.79	
SFTX		5.53	283	Pn	31 46.60	2.1
MEO		5.97	357	iPc	31 54.90	4.4
MIAR		6.93	33	eP	32 05.16	1.1
				eS	33 30.93	
ALQ		9.33	313	(Pn)	32 37.24	-0.4
				ePg	33 09.24	
				eS	35 10.29	
6 obs. associated						

? MAY 16, 1993 15h 49m 25.71± 5.70s
13.708 N ±77.9km 93.042 W ±24.1km
DEPTH = 33.0km (normal)
4.0mb (1 obs.)
OFF COAST OF CHIAPAS, MEXICO (68)

TER		2.36	75	iPd	50 03.92	0.8
				iS	50 29.01	
BVA		2.52	67	iP	50 04.80	-0.7
IXG		2.55	79	iPd	50 05.08	-0.8
				iS	50 36.76	
SLP		2.87	69	iPc	50 10.89	0.6
LTX		18.40	329	(P)	53 39.95	-0.2
YKA		51.08	347	eP	58 27.10	0.3
		0.9s		1.70nm	4.0mb	
	S	D. = 0.9	an	6 of	6 obs.	

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* MAY 16, 1993 16h 09m 37.32± 1.01s
34.325 S ±21.5km 108.941 W ±15.0km
DEPTH = 10.0km (geophysicist)
4.9mb (13 obs.)
SOUTHERN EAST PACIFIC RISE (684)
Mw 5.4 (HRV).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 24C
Centroid Location:
Origin Time 16:09:35.5 0 8
Lat 35.47S 0.08 Lon 109.42W 0.07
Dep 15.0 FIX Half-duration 2.0
Moment Tensor; Scale 10**17 Nm
Mrr= 0.05 0.08 Mtt= 0.14 0.10
Mff=-0.19 0.13 Mrt= 0.00 0.00
Mrf= 0.00 0.00 Mtf=-1.23 0.07
Principal Axes:

T	Val= 1.21	Plg= 0	Azm=221
N	0 06	90	180
P	-1.26	0	131

Best Double Couple:Mo=1.2*10**17
NP1:Strike=266 Dip=90 Slip=-180
NP2: 356 90 0

FSA		37.78	89	e(P)	16 56.00	0.6
CNCB		40.54	75	P	17 17.00	-2.1
LPB		40.60	75	P	17 21.80	2.4
	Z	24s		1.94um	4.9MszX	
				LR	26 56.00	
ZOBO		40.73	74	P	17 21.10	0.4
		1.7s		36.34nm	4.8mb	
				S	23 44.00	
				LR	27 00.00	
CCH		41.71	77	eP	17 28.00	-0.5
PPD		51.65	92	eP	18 45.90	-0.6
TUC		66.30	358	ePc	20 27.15	-0.8
		1.2s		12.78nm	5.0mb	
NVL		67.09	162	iPd	20 25.00	-7 6X
		2.0s		50.00nm	5.4mb	
	Z	17s		0.50um	4.8MszX	
	N	17s		0.50um		
	E	17s		0.50um		
				e	29 22.00	
GLA		67.25	355	(P)	20 35.57	1.6
PLM		67.73	353	(P)	20 36.80	-0.4
ALQ		68.95	2	eP	20 43.22	-1.5
		0.9s		3.23nm	4.5mb	
GSC		69.65	353	ePd	20 50.62	1.7
ISA		70.19	352	eP	20 51.20	-1.0
		1.0s		13.22nm	5.0mb	
PKEM		70.80	350	(P)	20 57.36	1.6
ARUT		71.87	356	eP	21 03.06	0.7
BONR		72.44	352	eP	21 07.24	1.3
TNP		72.45	353	(P)	21 05.28	-0.6
		1.0s		11.36nm	4.9mb	
PV09		72.46	360	eP	21 06.96	1.0
MSU		72.53	357	eP	21 07.15	0.8
PV08		72.53	0	(P)	21 05.42	-1.1
CMB		72.77	351	eP	21 09.28	1.7
		1.0s		7.99nm	4.8mb	
SRU		73.08	359	(P)	21 08.23	-1.3
KVN		73.50	353	(P)	21 11.94	0.0
EMUT		73.79	358	(P)	21 13.75	0.1
FVM		73.97	15	(P)	21 14.96	0.5
		0.8s		7.68nm	4.8mb	
DUG		74.24	357	(P)	21 13.39	-2.8
		1.1s		6.47nm	4.6mb	
DAU		74.40	358	eP	21 16.60	-0.7

16d 16h

```
LGPM   75.95 349 eP     21 26.27   0.3
LBFM   76.24 350 (P)    21 28.19   0.5
BW06   76.73 360 eP     21 28.81  -1.6
        1.0s    14.16nm          5.0mb
RSSD   78.20   4 (P)    21 38.60   0.1
        1.1s    17.97nm          5.1mb
NEW    82.54 354 eP     21 57.24  -4.1X
        1.9s    76.45nm          5.5mb
MCW    83.56 351 (P)    22 07.41   0.9
YKA    96.59 357 eP     23 06.30  -1.5
        0.8s     0.40nm          4.0mb
BJI   143.90 293 ePKP   29 14.00  -0.4
MLR   144.07  58 ePKP   29 10.00  -4.7X
VRI   144.60  57 ePKPd  29 15.00  -0.4
OBN   148.38  38 ePKP   29 23.00   1.7
        1.1s    39.00nm
                 e       29 38.00
CHTO  150.79 245 ePKP   29 25.60  -0.5
KMI   151.10 260 ePKP   29 33.20   6.5X
        1.5s    30.00nm
      Z  26s     2.50um          5.9MszX
                 sP      29 46.00
                 PP      31 12.50
LZH   153.22 283 ePKP   29 40.00  10.7X
     S.D. = 1.2  on  36 of  41 obs.
-------------------------------------
   MAY  16, 1993  16h 24m 44.56± 0.21s
    2.097 N ± 3.6km  126.552 E ± 5.5km
   DEPTH =  44.3km  (  3 depth phases)
   5.2mb ( 37 obs.)
 NORTHERN MOLUCCA SEA              (266)
      Mw 5.3 (HRV).
      CENTROID, MOMENT TENSOR      (HRV)
      Data Used: GDSN
      L.P.B.: 21S, 36C
      Centroid Location:
      Origin Time          16:24:49.8 0.6
      Lat  2.55N 0.05 Lon 126 70E 0.05
      Dep  26.0 3.1 Half-duration  2.0
      Moment Tensor;   Scale 10**16 Nm
        Mrr= 9.98 0.90  Mtt=-4.60 0.57
        Mff=-5.38 1.23  Mrt= 1.54 1.97
        Mrf= 0.29 1.57  Mtf=-6.19 0.70
       Principal Axes:
        T  Val= 10.15  Plg=83  Azm= 13
        N        1.12      6      224
        P      -11.27      3      133
      Best Double Couple:Mo=1.1*10**17
       NP1:Strike=217 Dip=42 Slip=  81
       NP2.         49     49      98

DAV     5.05 349 eP     26 01.00   1.2
SWI     5.55 122 ePc    26 07.00   0.2
CTB     5.59 335 ePd    26 11.00   3.6X
                 eS      27 37.00
CGP     6.58 344 eP     26 24.00   2.7
TSM     8 94 284 iP     26 55.10   1.0
        0.8s   328.80nm          6.4mb X
PLP     9.14 350 ePc    26 57.50   0.6
KKM    11.03 291 ePc    27 24.00   1.1
        0.7s   109.50nm          6.1mb
BCP    15.39 338 eP     28 27.00   6.4X
BAG    15.39 338 eP     28 23.00   2.4
MTN    15.53 163 eP     28 20.00  -2.2
LEM    20.88 245 ePd    29 29.00   3.4X
GUMO   21.41  57 eP     29 36.10   5.2X
      Z  27s     1.04um          4.1MszX
WRA    23.20 161 P      29 48.90   0.3
        0.9s    29.70nm          4.8mb
WB2    23.20 161 iPc    29 47.90  -0.7
        0.3s    92.80nm          5.7mb
                 eS      33 56.40
MBL    24.03 196 eP     29 56.50  -0.1
IPM    25.60 276 ePc    30 11.90   0.2
OIS    25.90 151 eP     30 18.10   3.8X
ASPA   26.59 165 iPd    30 19.60  -1.1
        0.5s    29.30nm          5.1mb
                 eS      35 05.10
SSE    29.29 351 Pd     30 45.20   0.2
        1.5s    27.00nm          4.7mb
      Z  20s     0.60um          4.2Msz
                 pP      30 56.00  40km
                 S       35 32.00
CTA    29.32 140 P      30 53.29   7.8X
CTA    29.32 140 iPc    30 45.00  -0.5
MEEK   29.58 195 eP     30 47.00  -0.7
KHT    30.34 296 eP     30 54.70   0.1

TKSJ   32.49  12 P      31 13.40   0.2
FORT   32.72 178 eP     31 14.40  -0.8
        0.4s    26.00nm          5.4mb
MRWA   32.74 197 eP     31 14.90  -0.5
WKYJ   33.05  14 P      31 17.80  -0.4
YONJ   33.55  10 P      31 22.30  -0.1
BAL    33.85 195 eP     31 24.50  -0.5
TSRJ   34.40  14 eP     31 29.60  -0.2
KLB    34.53 193 eP     31 30 50  -0.4
MUN    35.28 195 eP     31 37.00  -0.3
CHJJ   35.69  17 eP     31 38.90  -1.9
MTMJ   35.86  16 P      31 41.30  -1.0
MAT    35.93  16 iPc    31 41.00  -1.8
        1.3s    57.69nm          5.3mb
      Z  20s     0.71um          4.4Msz
                 eS      37 11 00
NWAO   35.93 193 eP     31 43.00   0.2
STK    36.68 158 eP     31 48.60  -0.5
        1.2s     8.40nm          4.5mb
                 e       33 12.30 438kmX
NIIJ   36.80  17 eP     31 48.60  -1.5
ADE    38.59 164 eP     32 07.30   2.1
BRS    38.70 141 eP     32 09 50   3.3X
BJI    38.93 347 eP     32 07.50  -0.3
        1.0s    35.00nm          5.1mb
      Z  24s     0.64um          4.4MszX
                 eS      38 00.00
                 eSS     40 36.00
OFUJ   39.31  19 P      32 11.40   0.3
LZH    39.82 331 eP     32 15.00  -0.6
        1.5s   148.00nm          5.6mb
      Z  28s     1.38um          4.6MszX
      E  18s     0.71um
                 pP      32 28.50  51km
                 sP      32 34 50
ARMA   40.22 145 iPc    32 19.60   0.8
        0.8s    28.00nm          5.1mb
BWA    41.74 152 iPd    32 32.70   1.6
CAN    42.74 153 iPd    32 40.20   0.8
HOOJ   42.82  18 eP     32 41.50   1.7
TOO    43.20 158 eP     32 47.40   4.4X
        0.6s    12.00nm          4.8mb
KUSJ   43.92  19 eP     32 49.70   0.9
ASAJ   44.21  17 eP     32 51 70   0.6
GUN    46.55 307 P      33 09.00  -1.4
PKI    46.78 307 P      33 11.20  -1.0
        1.2s    65.00nm          5.5mb
YSS    46.90  15 iPd    33 12 00  -0 4
        1.0s    20.00nm          5.0mb
      Z  20s     0.30um          4.3Msz
      N  20s     0.30um
KKN    46.98 307 P      33 12.60  -1.0
DMN    47.04 307 P      33 13.60  -0.6
GKN    47.58 307 P      33 17.40  -1.0
HYB    49.52 291 eP     33 32.00  -1.3
        1.0s    40.00nm          5.4mb
GBA    49.87 286 P      33 36.00   0.0
CIT    50.90 350 eP     33 44.00   0.7
ZAK    52.00 341 eP     33 44.00  -7.6X
        1.4s     7.00nm          4.5mb
                 e       35 04.20 392kmX
IRK    53.34 343 eP     34 00.00  -1.5
        1.5s    26.00nm          5.0mb
                 e       34 12.00  42km
                 e       34 17.40
                 e       34 30.80
MOY    53.87 341 ePd    34 06.00   0.7
        1.5s    36.00nm          5.2mb
NDI    53.88 304 iPc    34 04.50  -1.4
        0.6s     2.33nm          4.4mb
BOD    56.45 352 eP     34 21.60  -2.5
        1.3s    35.00nm          5.2mb
PET    57.29  22 eP     34 30.00   0.0
      Z  18s     0.60um          4.7Msz
                 e       42 24.00
YAK    59.82   2 eP     34 46.40  -1.1
        1.1s    60.00nm          5 6mb
                 eS      42 53.00
MGD    60.79  14 ePc    34 54.00  -0.2
        1.1s    60.00nm          5.6mb
      Z  22s     0.40um          4.5Msz
                 e       35 02 00  26kmX
                 e       35 35.00
ELT    60.85 334 eP     34 52.00  -2.6
        2.0s    20.00nm          4.9mb
                 eS      44 40.00
FRU    61.45 319 eP     34 56.00  -3.1X

      Z  24s     0.70um          4.7MszX
QUE    62.87 303 eP     35 08.60  -0.3
CSY    69.19 187 P      35 50.90   2.6
TIK    69.45   1 iPd    35 49.00  -0.8
        1.6s    52.00nm          5.3mb
                 i       36 16.00 107kmX
                 eS      45 00.00
MAIO   70.36 308 iPd    35 55.80  -0.4
                 eS      45 08.00
NRI    71.88 347 ePc    36 03.00  -1.6
        1.4s    18.00nm          4.8mb
                 e       36 21.00  66kmX
SVE    75.25 329 ePd    36 24.50   0.1
        1.0s   120.00nm          5.8mb
      Z  29s     0.40um          4.6MszX
      N  25s     0.10um
      E  25s     0.40um
ILT    75.41  19 iPd    36 25.70   0.5
        1.2s    18.00nm          4.9mb
      Z  18s     0.80um          5.1Msz
      E  18s     0.40um
ARU    76.19 328 ePc    36 29.00  -0.8
        1.2s   100.00nm          5.7mb
                 e       36 47.00  66kmX
GRS    81.12 309 iPd    36 58.00   0.8
        1.2s    40.00nm          5.3mb
MJMA   81.23 296 eP     36 57.33  -0.5
MAW    82.17 200 P      37 04.50   2.7
SVW    82.29  29 (P)    37 04.22   1.5
        1.2s    17.75nm          5.0mb
TTA    82.43  27 eP     37 04.52   1.1
        1.4s    19.85nm          5.0mb
AFIF   83.10 294 eP     37 09.00   1.3
KDC    83.40  32 eP     37 09.80   1.4
RSO    83.59  29 eP     37 07.84  -1.7
CP2    83.94  29 eP     37 11.63   0.3
IMA    83.94  24 eP     37 10.56  -0.6
        0.8s     8 42nm          4.9mb
CRP    83.98  29 eP     37 11.18  -0.3
KIV    84.13 314 iPc    37 13 10   0.5
      Z  22s     0.10um          4.2Msz
                 (S)     47 37.10
SLKM   84.84  30 eP     37 15.19  -0.5
                 e       37 35.72  75kmX
PMR    85.45  29 (P)    37 17.37  -1.2
        0.9s    17.36nm          5.2mb
SOC    86.27 313 eP     37 23.00  -0.1
        1.0s    60.00nm          5.8mb
MOS    87.68 326 iPc    37 31.00   1.4
        2.0s   130.00nm          5.8mb
OBN    88.27 325 eP     37 32.00  -0.4
        1.3s    80.00nm          5.8mb
      Z  20s    17.00um          6.5MszX
      N  20s    17.00um
      E  20s     4.40um
BALM   88.72  29 (P)    37 35.42   0.8
INK    91.74  21 eP     37 50.00   1.6
KAF    92.95 332 eP     37 53.70  -0.4
MBC    93 57  13 eP     37 57.50   0.7
NUR    94.04 331 iP     38 02.90   3.8X
        0.5s     2.30nm          4.9mb
UZH    97.82 320 ePc+   38 17.70   1.1
BUL    98.17 250 eP     38 19.20   0.3
YKA   101.05  24 ePdiff38 31.10   0.3
        0.7s     0.40nm          4.1mb X
RSSD  115.58  38 (PKP)  43 24.81   0.7
PEL   145.14 154 ePKP   44 19.50  -0.1
MDZ   146.13 156 i(PKP) 44 23.30   2.0
RTBS  146.94 154 ePKPc  44 26.90   4.5X
CFA   147.50 156 ePKPd  44 27.40   4.0X
RTLL  147.65 156 iPKPc  44 27.00   3.3X
RTPR  149.33 157 ePKPd  44 32.00   5.7X
CNCB  159.55 137 PKP    44 41.00  -0.1
LPB   159.66 136 ePKP   44 39.00  -2.0
ZOBO  159.82 135 PKP    44 43.20   1.8
     S.D. = 1.2  on  97 of 112 obs.
-------------------------------------
%  MAY  16, 1993  18h 02m 51.05± 0.80s
    44.391 N ± 7.8km     7.341 E ± 9.3km
    DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                    (545)
      ML 1.6 (GEN).

ENR     0.17 161 P      02 55.07   0.0
                 S       02 57.50
PZZ     0.21 304 P      02 55.94   0.3
                 S       02 59.28
```

```
ROB      0.39 104 P      02 59.56   0.5
                  S      03 06.06
BHB      0.45 353 P      02 59.97  -0.3
IMI      0.62 140 P      03 03.17  -0.4
     S.D. = 0.6   on    5 of    5 obs
-------------------------------------
?  MAY  16, 1993  18h 36m 00.02± 2.94s
   16.961 N ±29.2km   93.982 W ±18.6km
   DEPTH = 176.9 ± 44.0 km
 CHIAPAS, MEXICO                 ( 61)

SCX      1.31 100 iP     36 30.25   0.0
                  iS     36 53.00
OXX      2.63 273 iP     36 45.29   0.6
                  iS     37 23.24
IISM     3.81 302 iP     36 58.00  -1.2
                  iS     37 40.00
PPM      4.89 296 iP     37 14.00   0.3
                 (S)     38 10.50
IIA      4.95 297 eP     37 14.50   0.5
III      5.42 286 iP     37 20.50   0.2
                  iS     38 23.00
ACX      5.63 270 eP     37 22.00  -0.9
MRX      7.37 293 eP     37 46.50   0.5
     S.D. = 0.9   on    8 of    8 obs.
-------------------------------------
*  MAY  16, 1993  18h 36m 49.85± 1.09s
   42.003 N ± 9.4km  135.426 E ± 7.1km
   DEPTH = 385.2 ± 12.8 km
   4.3mb ( 17 obs.)
 SEA OF JAPAN                    (660)

MAT      5.87 157 iPd    38 21.20   0.2
        1.1s    21.52nm          4.1mb
                  eS     39 36.00
BJI     14.67 269 eP     40 01.50   0.0
        1.0s    77.00nm          5.1mb
                  e      42 38.00
LZH     25.14 267 eP     41 44.80   1.3
        1.5s    27.00nm          4.4mb
GUN     42.40 267 P      44 09.00  -1.1
KKN     42.92 267 P      44 13.60  -0.4
        0.5s    10.00nm          4.4mb
PKI     42.94 267 P      44 14.60   0.3
        0.5s     8.00nm          4.3mb
DMN     43.14 267 P      44 16.00   0.1
        0.6s    14.00nm          4.4mb
GKN     43.28 268 P      44 16.60  -0.2
        0.5s    18.00nm          4.6mb
IMA     44.91  33 eP     44 29.00  -0.2
        1.4s    12.50nm          4.0mb
FBA     47.49  34 eP     44 49.06   0.1
        1.0s     6.47nm          3.9mb
BALM    50.85  38 eP     45 14.00  -0.5
INK     52.14  28 eP     45 24.50   0.8
MBC     53.10  17 eP     45 30.50  -0.1
        1.0s     3.00nm          3.6mb
WBZ     61.64 181 iPd    46 29.40  -0.7
        0.8s     5.80nm          4.2mb
WRA     61.64 181 P      46 29.90  -0.2
        0.7s     2.90nm          3.9mb
YKA     61.82  30 eP     46 29.30  -1.6
        0.9s     1.40nm          3.5mb
ASPA    65.35 182 iPc    46 53.80  -0.1
        0.7s     6.40nm          4.4mb
NEW     69.72  43 eP     47 20.89   0.2
        0.9s     4.39nm          4.1mb
FCC     71.53  25 eP     47 37.00   5.9X
BW06    77.35  43 ePc    48 04.69   0.1
        0.9s     6.68nm          4.4mb
RSSD    79.06  39 eP     48 12.53  -1.2
        1.3s    12.51nm          4.5mb
SRU     79.48  46 eP     48 16.51   0.5
PV09    80.67  46 eP     48 23.09   0.8
PV08    80.88  46 eP     48 24.28   0.8
LTX     90.54  49 eP     49 09.68  -0.6
ZOBO   147.34  45 PKP    55 50.50   2.6
LPB    147.57  46 PKP    55 52.00   3.9X
CNCB   147.86  46 PKP    55 48.00  -0.7
CCH    149.31  43 PKP    55 56.60   5.9X
SIV    150.44  34 PKP    55 58.00   6.0X
     S.D. = 0.9   on   26 of   30 obs.
-------------------------------------
&  MAY  16, 1993  19h 01m 19.72s
   35.724 N          116.481 W
   DEPTH =   6.0km   (geophysicist)
 CENTRAL CALIFORNIA              ( 39)
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        <PAS-P>. ML 3.3 (PAS).

GSC      0.50 212 iPd    01 28.94  -0.8
TPNV     1.24   9 eP     01 43.07  -0.1
                  eS     01 59.88
ISA      1.62 268 ePn    01 46.63  -2.4
                  eS     02 09.06
SSK      1.81 214 ePn    01 51.62  -0.2
                  ePg    01 52.81
                  eS     02 14.44
PEC      1.91 197 (Pn)   01 51.10  -2.1
                  eS     02 19.04
PLM      2.39 188 ePn    01 58.50  -1.7
                  eS     02 34.26
ABL      2.40 250 ePn    01 58.05  -2.4
TNP      2.43 346 ePn    02 00.86   0.1
                  eS     02 36.10
MRCM     2.54 321 (Pn)   02 00.12  -2.2
BONR     2.66 327 ePn    02 03.63  -0.6
                  ePg    02 09.04
MEMM     2.77 315 ePn    02 05.08  -0.3
MMPM     2.78 313 (Pn)   02 05.16  -0.8
GLA      3.00 152 eP     02 05.95  -2.7
                  eS     02 54.96
PHAM     3.19 273 (P)    02 12.47   1.1
ARUT     3.19  49 ePn    02 11.08  -0.5
MSU      4.43  50 (Pn)   02 28.56  -0.6
                  ePg    02 40.90
DUG      5.32  32 (Pn)   02 40.39  -1.4
                  ePg    02 59.33
SRU      5.82  53 (P)    02 46.48  -2.4
                  ePg    03 07.15
PV09     6.49  63 (Pn)   02 56.28  -2.2
                  ePg    03 18.82
PV10     6.51  64 (Pn)   02 57.68  -1.1
                  ePg    03 20.70
      20 obs. associated
-------------------------------------
*  MAY  16, 1993  21h 32m 54.68± 3.80s
   33.148 S ± 9.6km   72.189 W ±28.4km
   DEPTH =  10.0km  (geophysicist)
 OFF COAST OF CENTRAL CHILE      (134)
      MD 4.1 (SAN).

LCCH     0.61 122 iP     33 07.21   0.2
                  iS     33 14.80
ROCH     1.00  80 iP     33 13.59  -0.3
                  iS     33 26.81
LNV      1.03 141 iP     33 14.18   0.0
                  iS     33 27.33
TACH     1.16 116 iP     33 16.04  -0.4
                  iS     33 30.12
PEL      1.26  90 iP     33 18.10  -0.1
                  iS     33 34.29
SAN      1.31 104 iP     33 19.10   0.1
JACH     1.42  71 iP     33 20.02  -0.6
                  iS     33 38.47
PCH      1.48 109 iP     33 21.25  -0.2
CHCH     1.50 122 iP     33 21.53  -0.2
                  iS     33 40.38
FCH      1.60  97 iP     33 23.43   0.0
                  iS     33 43.55
MDZ      2.82  86 iP     33 42.30   1.6
                  iS     34 22.20
TCA      6.68  76 eP     34 35.00  -0.4
                 (S)     35 57.00
     S.D. = 0.6   on   12 of   12 obs.
-------------------------------------
   MAY  16, 1993  21h 44m 48.94± 0.10s
   15.286 S ± 3.3km  173.332 W ± 3.5km
   DEPTH =  21.3km  (geophysicist)
   6.1mb ( 77 obs.)  6.7Msz ( 56 obs.)
 TONGA ISLANDS                   (173)
      Mw 6.6 (GS), 6.6 (HRV). Ms 6.8
      (BRK). Mo=9.0*10**18 Nm (PPT).
      Depth from broadband
      displacement seismograms.
      FAULT PLANE SOLUTION: P-Waves
       NP1:Strike=280 Dip=75 Slip= 150
       NP2:        18     61       17
       Principal Axes:
        T                Plg=32  Azm=236
        P                    9       332
      Comment: The focal mechanism is
        poorly controlled and
        corresponds to strike-slip
        faulting with a moderate
        reverse component. The
        preferred fault plane is not
        determined.
      RADIATED ENERGY
       No. of sta:  16  Focal mech.  F
       Energy        1.3±0.3*10**14 Nm
      MOMENT TENSOR SOLUTION
      Dep  10              No. of sta: 30
      Moment Tensor;   Scale 10**18 Nm
        Mrr= 3.28        Mtt=-5.18
        Mff= 1.90        Mrt=-4.58
        Mrf= 2.62        Mtf=-4.19
       Principal axes:
        T  Val=  8.17  Plg=45  Azm=234
        N       -0.09      40       87
        P       -8.08      17      342
      Best Double Couple:Mo=8.1*10**18
       NP1:Strike= 29 Dip=45 Slip=  24
       NP2:       282     73      133
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 45S, **C  M.W.: 37S, 67C
      Centroid Location:
      Origin Time        21:44:58.9 0.1
      Lat 15.27S 0.01 Lon 173.12W 0.01
      Dep  31.7 0.4 Half-duration  2.0
      Moment Tensor;   Scale 10**18 Nm
        Mrr= 3.07 0.03  Mtt=-0.65 0.03
        Mff=-2.42 0.03  Mrt=-7.59 0.13
        Mrf= 1.44 0.09  Mtf= 3.47 0.03
       Principal Axes:
        T  Val=  9.12  Plg=50  Azm=172
        N       -0.41      22       291
        P       -8.71      31        36
      Best Double Couple:Mo=8.9*10**18
       NP1:Strike=174 Dip=25 Slip= 154
       NP2:       287     79        67

RAR     14.16 117 P      48 04.00  -6.5X
                  S      50 33.00
RAO     14.53 196 eP     48 15.50   0.3
                  S      50 58.00
PVC     17.77 260 iPc    49 04.10   7.4X
BKM     17.83 260 iPc    49 04.00   6.5X
DZM     20.30 248 iPc    49 24.80  -1.6
                  iS     53 29.20
AFR     22.70  99 iPd    49 49.80  -0.8
        1.6s  2368.10nm          6.4mb
PAE     22.90  99 iPd    49 51.40  -1.1
        1.5s  2147.80nm          6.4mb
PPT     22.90  99 iPd    49 51.60  -0.9
        1.5s  2548.90nm          6.5mb
      Z  30s  7500.00um          8.0MszX
PPN     23.03  99 iPd    49 53.00  -0.8
        2.1s  2342.10nm          6.3mb
OUZ     23.06 208 P      49 57.30   3.4X
TVO     23.21  99 iPd    49 54.80  -0.9
        1.8s  5289.40nm          6.8mb
HBZ     23.43 197 eP     49 59.50   2.0
KUZ     23.49 202 P      50 00.10   2.0
URZ     24.39 198 eP     50 07.10   0.3
NOZ     24.45 196 P      50 09.30   1.9
WLZ     24.54 201 eP     50 09.60   1.3
PMO     24.55  93 iPd    50 08.70   0.1
        1.4s  3778.00nm          6.8mb
VAH     24.79  93 iPd    50 10.70  -0.2
        1.3s  1935.10nm          6.6mb
TPT     24.82  93 iPd    50 11.20   0.1
        1.4s  3917.40nm          6.8mb
PAHZ    24.96 198 eP     50 14.40   2.0
MAHZ    25.03 196 eP     50 16.10   3.1X
RUV     25.03  93 iPd    50 12.90  -0.3
        1.6s  3860.70nm          6.8mb
MOZ     25.39 202 P      50 18.20   1.9
WAHZ    25.94 198 P      50 21.30  -0.3
KIW     27.46 200 eP     50 35.60   0.1
CAW     27.63 199 eP     50 36.10  -0.9
BLW     27.74 198 P      50 37.60  -0.4
MRW     27.86 200 eP     50 37.20  -1.9
SNZO    27.93 199 ePc    50 35.45  -4.2X
                  epPd   50 44.89  33kmX
                  (PP)   51 43.00
                  PcP    53 35.00
                  S      55 22.00
TCW     27.98 200 eP     50 39.40  -0.8
ORZ     28.26 203 eP     50 43.20   0.5
THZ     28.94 202 eP     50 49.70   0.8
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16d 21h

KHZ	29.30	200	eP	50	50.50	-1.6	ADK	66.95	358	e(P)	55	39.20	-2.6				ePP	58	48.89				
DSZ	29.33	203	P	50	51.30	-1.1		1.4s		312.70nm			6.3mb				eS	05	33.89				
LTZ	30.06	201	eP	50	56.60	-2.3		Z 21s		57.30um			6.8Msz				eSKS	06	11.89				
WVZ	30.88	203	eP	51	04.10	-1.9	CHJJ	68.09	320	eP	55	50.00	0.6				eSS	09	57.89				
LSCZ	33.13	203	eP	51	23.30	-2.5	OFUJ	68.49	324	P	55	51.30	-0.5				eLQ	14	49.89				
SBCZ	33.13	203	eP	51	23.70	-2.1	SMY	68.60	352	e(P)	55	52.00	-0.2				eLR	17	11.89				
CMCZ	33.19	203	P	51	24.30	-2.1		Z 21s		99.00um			7.0Msz	FHC	72.14	37	ePd	56	13.91	-0.1			
TLC	33.31	203	eP	51	25.60	-1.8	NIIJ	68.85	321	eP	55	54.30	0.3	SHNJ	72.15	314	eP	56	14.10	0.0			
TUZ	33.75	202	eP	51	29.40	-1.7	MAJO	68.89	320	ePc	55	55.92	1.5	PET	72.18	343	eP	56	13.00	-0.9			
BCZ	34.46	203	eP	51	37.40	0.2				ePPc	56	04.28	27kmX		1.6s		340.00nm			6.1mb			
ARMA	35.46	239	eP	51	44.00	-2.1	MAT	68.89	320	eP	55	54.00	-0.4		Z 19s		27.00um			6.5Msz			
	0.8s		83.00nm			5.7mb		Z 20s		34.40um			6.6Msz				epP	56	33.00	75kmX			
RAB	35.69	284	eP	51	46.00	-2.1				eS	04	59.00					eS	05	36.00				
			eS	57	04.00		WKYJ	69.16	316	P	55	58.90	2.8				ePS	06	16.00				
RIV	36.95	234	iPc	52	11.10	12.6X	MTMJ	69.17	320	eP	55	56.70	0.5				esS	06	21.00				
			e	57	34.00		KUSJ	69.68	329	eP	55	59.10	0.1	SSK	72.26	46	eP	56	14.28	-0.8			
HPO	38.38	28	eP	52	09.98	-0.6	TSRJ	69.69	318	eP	55	59.30	0.1	PLM	72.37	47	eP	56	13.99	-1.8			
KKH	38.67	27	eP	52	12.18	-0.8	ERM	69.70	327	eP	56	01.97	2.8	BCP	72.41	293	eP	56	23.00	6.8X			
CTA	38.73	257	iPc+	52	14.00	0.4				epPc	56	10.41	27kmX	BAG	72.43	293	eP+	56	16.00	-0.3			
CTA	38.73	257	iP	52	22.00	8.4X	KUR	69.75	332	eP	56	00.50	1.1				eS	05	40.00				
			ePP	53	57.00			1.5s		730.00nm			6.6mb	PEC	72.45	46	eP	56	15.10	-0.9			
			eS	58	02.00			Z 18s		44.20um			6.8Msz		1.6s		255.90nm			6.0mb			
CTAO	38.73	257	iPc	52	11.68	-2.0		N 18s		40.10um				FRI	72.46	43	eP	56	15.20	-0 7			
	1.4s		126.67nm			5.5mb		E 18s		22.60um				ISA	72.53	44	ePd	56	15.61	-0.8			
			epPd	52	20.70	31kmX				eS	05	10.00			1.6s		485.02nm			6.3mb			
CNB	38.87	232	iPd	52	13.60	-1.1				e	05	54.00			Z 21s		65.36um			6.9Msz			
	1.0s		233.00nm			5.9mb	HOOJ	69.90	327	eP	56	01.20	0.9				ed	56	21.90	20kmX			
			iPcP	53	58.30		TKSJ	70.06	315	P	56	03.10	1.6				S	05	39.63				
CAN	39.15	232	eP	52	15.50	-1.5	AOMJ	70.22	324	P	56	06.90	4.5X	CMB	72.64	41	ePd	56	16.02	-1.0			
MHA	39.19	26	ePc	52	17.45	0.1	CSY	70.54	205	eP	56	04.10	0.1		1.7s		350.00nm			6.1mb			
BWA	39.29	234	eP	52	13.30	-4.9X		1.0s		48.10nm			5.6mb		Z 21s		46.00um			6.7Msz			
HON	39.37	23	P-	52	22.09	3.3X	KAGJ	70.72	311	eP	56	06.70	1.1				ePP	59	06.68				
	Z 19s		68.25um			6.5Msz	TSM	70.81	280	eP	56	12.00	5.5X				eS	05	40.68				
			S	58	31.69		PRS	71.00	42	ePd	56	06.90	-0.3				eSKS	06	16.68				
DHH	39.39	23	eP	52	18.75	-0.3	S8C	71.00	45	ePd	56	06.69	-0.5				e(PS)	08	25.68				
KiP	39.46	23	eP	52	19.25	-0.3	GCC	71.01	41	ePd	56	06.27	-1.0				eSS	10	14.68				
HKL	39.51	26	eP	52	19.60	-0.9	MRRJ	71.10	326	eP	56	08.10	0.4				eLQ	13	44.68				
OPA	39.70	23	eP	52	20.72	-0.9	STAN	71.12	41	eP	56	08.50	0.6				eLR	17	24.68				
TOO	42.59	231	iPc	52	43.90	-1.3		1.8s		1090.00nm			6.7mb	ORV	72.85	40	iPd	56	17.06	-1.1			
TAU	43.44	223	eP	52	50.00	-2.1		Z 21s		50.00um			6.8Msz	LGPM	72.89	38	eP	56	18.43	-0.1			
			e	59	12.00					eS	05	17.71		KKM	72.92	281	ePc	56	17.00	-2.2			
STK	44.15	240	iPc	52	56.20	-1.8				eLR	16	33.71		MMPM	73.26	42	eP	56	21.32	0.2			
	0 5s		34.20nm			5.5mb	YONJ	71.15	316	P	56	09.60	1.5	MIN	73.27	39	iPd	56	19.66	-1.1			
			eS	58	40.90		BCH	71.17	44	eP	56	06.33	-2.1	MEMM	73.35	42	eP	56	21.61	0.5			
MCQ	44 67	203	eP	53	03.50	1.7	SDN	71.18	8	eP	56	05.80	-2.1	LMEM	73.40	39	(P)	56	21.54	-0.1			
OIS	44.97	256	eP	53	07.80	3.1X	SAO	71.20	42	eP-	56	08.01	-0.5	GSC	73.46	45	ePd	56	20.83	-1.1			
	0 6s		10.00nm			4.9mb X		1.7s		652.01nm			6 5mb				ed	56	22.81	6kmX			
ADE	47.14	236	iPc+	53	20.00	-1.7				S	05	28.41					ed	56	27.03				
WB2	49 92	257	iPc	53	40.70	-2.8	TGY	71.25	291	eP	56	09.00	-0.2	YSS	73.48	330	ePd	56	21.00	-0.6			
	0.6s		81.30nm			5.9mb	SHK	71.30	315	ePd	56	11.00	1.9		0.8s		20.00nm			5.2mb			
WRA	49 93	257	P	53	42.00	-1.6	PHAM	71.34	43	eP	56	10.62	1.3				e	56	30.00	29kmX			
	0.5s		13.40nm			5.2mb	COE	71.35	41	eP	56	08.36	-1.0				e	56	34.80				
WRA	49.93	257	P	53	59.90	16.3X	BKS	71.37	41	eP	56	08.09	-1.4				e	59	05.00				
	1.6s		30.60nm					1.6s		460.00nm			6.3mb				iS	05	50.00				
ASPA	50.21	252	iPd	53	43.00	-2.7		Z 20s		52.00um			6.8Msz				iPPS	06	36.00				
	0.9s		175.00nm			6.1mb				ePP	58	30.09		YSS	73.48	330	eP	56	25.00	3.4X			
			eS	00	53.70					eS	05	21.09					iS	05	49.00				
			e	03	39.90					eSKS	06	21.09		MRCM	73.64	43	eP	56	22.62	-0.5			
GUMO	50.33	303	eP	53	48.59	2.0				e	09	44.09		GLA	73.67	48	eP	56	22.69	-0.5			
	1.6s		195.60nm			5.8mb				eLQ	13	55.09		LBFM	73.71	38	ePd	56	22.91	-0.5			
	Z 22s		7.99um			5.7MszX				eLR	16	42.09		BONR	73.93	42	ePd	56	24.06	-0.8			
			e	53	56.20	25kmX	SAP	71.40	327	eP	56	13.00	3.6X	DBO	74.04	36	P	56	28.14	3.0X			
			eS	00	55.30		ZSP	71.40	40	eP	56	10.41	0.8	VIP	74.23	40	P	56	38.33	11.8X			
MTN	53.81	265	eP	54	10.50	-2.2	NTYM	71.42	40	eP	56	11.28	1.6	RNO	74.27	35	P	56	26.90	0.5			
	0.5s		80.00nm			6.0mb	MHC	71.42	41	ePd	56	09.74	-0.2	KVN	74.68	42	eP	56	28.84	-0.3			
FORT	55.53	243	eP	54	21.70	-3.4X		1.4s		230.00nm			6.1mb	TNP	74.71	43	eP	56	29.04	-0.3			
	0 4s		50.00nm			5.9mb		Z 20s		58.00um			6.8Msz		2.1s		56.61nm			5.2mb			
SWI	56.51	279	ePc	54	33.50	1.1				ePP	58	36.15		TPNV	74.73	44	(P)	56	30.05	0.6			
DRV	59.72	200	iP	54	54.50	0.4				eS	05	26.15			0.8s		39.33nm			5.5mb			
			S	03	13.00					eSKS	06	02.15		KDC	74.78	11	eP	56	28.10	-0.9			
			SS	07	12.00					eSS	09	47.15			1.2s		502.40nm			6.4mb			
COOL	61.47	243	eP	55	03.00	-3.7X				eLQ	14	08.15		SPA	74.81	180	iPc	56	29.70	0.3			
MBL	63.36	254	eP	55	17.00	-2.3				eLR	16	46.15			1.1s		599.40nm			6.5mb			
	0.4s		27.00nm			5.7mb	LLA	71.44	42	ePd	56	11.34	1.4		Z 20s		6.40um			5.9Msz			
MEEK	63.92	248	eP	55	21.00	-2.0	ASAJ	71.46	328	eP	56	10.60	0.8	COR	74.95	35	ePd	56	30.07	-0.1			
DAV	64.48	286	eP	55	26.00	-0.7	KUMJ	71.49	313	eP	56	11.00	0.8				ed	56	32.06	6kmX			
NWAO	64.73	241	iPc	55	25.77	-2.4	ARN	71.50	41	eP	56	09.76	-0.5				ed	56	36.11				
			ec	55	28.41		RPV	71.51	46	(P)	56	09.95	-0.3	KMOR	75.52	34	P	56	33.43	-0.2			
			epPd	55	35.70	32kmX	ABL	71.56	45	eP	56	10.66	-0.3	SSOR	75.58	35	P	56	33.41	-0.6			
RKG	64.86	239	eP	55	27.00	-2.0	PKEM	71.66	43	(P)	56	13.44	2.2	ONR	76.18	33	P	56	37.54	0.3			
MUN	65.64	242	eP	55	32.00	-2.1	KMPM	71.81	37	eP	56	12.51	0.4	BMW	76.21	33	eP	56	36.86	-0.6			
	Z 20s		49.30um			6.7Msz	HMR	71.81	41	(P)	56	13.32	1.3	TUC	76.27	51	eP	56	37.75	-0.4			
			eS	04	16.00		PAS	71.89	46	ePd	56	11.59	-1.0		1.9s		766.56nm			6.4mb			
CGP	65.77	287	eP	55	38.00	3.0X				ed	56	17.55	19kmX		Z 21s		29.60um			6.6Msz			
CTB	65.79	285	eP	55	35.00	-0.2	ARC	72.13	37	ePd	56	12.89	-1.0				S	06	19.03				
MRWA	66.02	245	eP	55	34.50	-2.0		2.9s		2460.00nm			6.7mb	CROR	76.48	35	P	56	38.58	-0.5			
PLP	66.50	290	ePd	55	41.70	2.0		Z 19s		46.00um			6.8Msz	SHW	76.55	34	eP	56	39.63	0.1			

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16d 21h

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16d 22h

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16d 22h

			LR	19	32.00	
BOB	150.52	356	PKP	04	41.10	5.8X
BHB	150.54	359	PKP	04	35.85	0.7
KNT	150.62	335	ePKP	04	35.06	-0.4
VAY	150.62	335	iPKP	04	35.40	0.0
	1.3s	240.00nm				
			i	04	43.40	
IZM	150.68	326	iPKP	04	35.00	-0.6
SOH	150.71	334	ePKP	04	36.70	1.1
CIN	150.78	324	ePKP	04	35.00	-0.7
PCP	150.80	357	PKP	04	35.75	0.1
DOI	150.87	359	PKP	04	40.56	4.8X
PZZ	150.87	359	PKP	04	37.08	1.2
CKI	150.92	358	PKP	04	41.30	5.5X
HVAR	150.97	345	ePKP	04	40.60	4.7X
YER	150.99	323	iPKP	04	45.00	8.8X
GRG	151.00	335	iPKP	04	35.66	-0.4
RSM	151.03	351	PKP	04	37.20	1.3
THE	151.04	334	ePKP	04	34.54	-1.5
ROB	151.07	358	PKP	04	36.30	0.2
SFI	151.12	352	PKP	04	37.08	1.1
BDI	151.12	354	PKP	04	39.90	3.7X
PHP	151.12	338	iPKPc	04	34.00	-2.2
FIN	151.14	358	PKP	04	36.12	0.0
ENR	151.15	359	PKP	04	37.68	1.5
PGD	151.18	352	PKP	04	37.31	0.9
FIR	151.33	353	ePKP	04	36.50	0.2
TOUF	151.36	359	PKP	04	38.19	1.5
ARV	151.38	350	PKP	04	37.02	0.5
AUTN	151.38	359	PKP	04	38.79	2.0
SAOF	151.38	359	PKP	04	38.19	1.7
CRE	151.39	352	PKP	04	38.09	1.5
LACI	151.42	339	ePKP	04	37.90	1.4
IMI	151.45	358	PKP	04	37.49	0.8
OHR	151.49	337	iPKP	04	36.50	-0.3
	1 6s	252.00nm				
			i	04	43.50	
			i	04	54.30	
FNA	151.56	336	ePKP	04	37.06	0.1
TIR	151.62	339	ePKP	04	37.00	0.1
CALN	151.63	360	PKP	04	38.42	1.4
ECRI	151.65	14	ePKP	04	36.00	-1.0
LIT	151.68	334	ePKP	04	36.46	-0 6
CDR	151.70	1	ePKPd	04	38.10	1.1
			e	04	44.20	
			i	04	49.70	
EPF	151.82	10	ePKP	04	36.30	-0.9
	1 6s	91.40nm				
ASS	151.84	351	PKP	04	37.58	0.3
AQU	152.41	349	PKP	04	38.86	0.8
TPE	152.50	338	ePKP	04	40.50	2.3
MNS	152.50	350	PKP	04	38.10	-0.1
EGRA	152.52	11	ePKP	04	36.50	-1.6
FG2	152.57	346	PKP	04	38.93	0.7
AGG	152.64	333	ePKP	04	38.26	-0.2
BAI	152.78	343	PKP	04	43.00	4.5X
SRN	152.86	337	ePKP	04	38.40	-0.3
DUI	152.87	347	PKP	04	36.97	-1.8
ETER	152.88	6	ePKP	04	41.90	3.2X
BRT	152.91	342	PKP	04	39.90	1.1
EPLA	152.92	22	ePKP	04	40.50	1.7
SDI	152.96	348	PKP	04	39.00	0.1
GUD	153.04	18	ePKP	04	40.40	1.3
IGT	153.04	336	ePKP	04	45.90	6.9X
RMP	153.06	350	PKP	04	46.50	7.6X
RDP	153.11	350	PKP	04	40.11	1.0
LCI	153.17	341	PKP	04	39.70	0.6
RFI	153.31	348	PKP	04	42.63	3.4X
ETOR	153.45	15	ePKP	04	41.30	1.7
SGO	153.72	345	PKP	04	40.10	0.2
PAB	153.97	20	ePKPc	04	40.65	0.2
			ec	04	44.63	
EROO	153.98	11	ePKP	04	41.20	0.9
EBR	154.00	11	ePKP	04	42.00	1.8
MGR	154.05	344	PKP	04	40.10	-0.3
CSI	154.19	343	PKP	04	40.90	0.3
TDS	154.28	343	PKP	04	41.09	0.4
ROI	154.30	342	PKP	04	41.30	0.5
CZI	154.75	343	PKP	04	44.10	2.9
EVAL	154.81	26	ePKP	04	43.10	1.7
ECHE	154.88	14	ePKP	04	43.00	1.5
GRI	155.04	342	PKP	04	42.31	0.6
EHOR	155.20	23	ePKP	04	42.00	0.1
EVIA	155.37	17	ePKP	04	43.80	1.5
ESEL	155.39	7	ePKP	04	46.50	4.4X
ELUO	155.79	22	ePKP	04	43.90	1.0
SOI	155.83	342	PKP	04	43.10	0.3
EPRU	155.95	24	ePKP	04	45.30	2.2
EHUE	156.11	18	ePKP	04	43.00	-0.3
ECOG	156.29	21	ePKP	04	43.50	-0.1
EJIF	156.30	25	ePKP	04	45.70	2.2
EALH	156.40	16	ePKP	04	44.00	0.4
EGUA	156.69	21	ePKP	04	44.90	0.9
MBO	157.15	89	ePKP	04	50.60	5.5X
FAI	157.23	345	PKP	04	46.80	2.1
AVE	157.99	33	iPKPd	04	46.50	0.8
			i	05	20.00	
IFR	158.94	28	iPKP	04	49.50	2.5
			i	04	50.00	
			i	05	26.00	
TIO	159.87	37	iPKPc	04	49.50	1.5
			i	05	30.50	
KDS	161.48	96	iPKPd	04	48.50	-1.4
BCAO	164.11	228	iPKPc	04	53.00	0.4
	0.5s	35.00nm				
			id	05	47.10	
			ic	09	31.90	
LIC	165.41	127	PKP	04	53.30	-0.4
	Z 21s	0.55um			7.1Msz	
			PKPab	05	52.00	
TIC	165.68	126	PKP	04	53.80	-0.1
			PKPab	05	53.00	
KIC	165.72	127	PKP	04	53.30	-0.6
	1.5s	401.50nm				
			PKPab	05	52.00	
			PP	09	40.00	
	S.D. = 1.2	on 515 of 619 obs.				

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* MAY 16, 1993 22h 05m 51.89± 0.58s
51.236 N ±12.9km 178.546 W ± 6.8km
DEPTH = 33 0km (normal)
4.2mb (15 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS. (7)

ADK	1.33	60	ePc	06	15.57	1.3
SMY	4.78	291	eP	07	06.01	2.6X
SDN	11.55	62	eP	08	34.50	-2.8X
SVW	16.05	43	eP	09	39.72	3.2X
	0.8s	13.13nm			4.1mb	
KDC	16.41	56	eP	09	39.95	-1.0
TTA	16.83	37	eP	09	48.99	2.7
	1.5s	14.65nm			3.9mb	
RSO	17.07	47	eP	09	50.97	1.5
CP2	17.60	45	(P)	09	57.27	1.2
SLKM	18.26	49	eP	10	04.42	0.3
PMS	18.80	47	eP	10	10.90	0.2
IMA	19.49	31	eP	10	18.10	-0.7
	1.3s	13.55nm			4.1mb	
FBA	20.96	38	eP	10	33.60	-0.4
	0.8s	4.81nm			3.9mb	
YSS	25.49	276	ePc	11	19.10	0.7
INK	27.49	35	eP	11	37.00	0.5
MBC	33.68	22	eP	12	31.00	-0.3
	0.5s	1.00nm			4.0mb	
YKA	35.22	46	eP	12	42.80	-1.8
	0.8s	1.10nm			3.8mb	
BOD	38.09	307	eP	13	08.10	-0.7
NEW	38.79	70	eP	13	14.50	-0.3
	0.6s	6.69nm			4.6mb	
HVU	44.83	75	eP	14	04.88	0.3
FCC	45.95	46	eP	14	17.50	4.6X
BW06	46.20	72	eP	14	15.25	-0.2
	0.6s	5.30nm			4.7mb	
ZAK	47.16	301	eP	14	23.50	0.9
PV09	49.04	77	eP	14	37.67	-0.1
FVM	60.47	65	eP	15	59.40	-1.2
	0.5s	8.67nm			5.1mb	
KAF	65.29	347	iP	16	30.10	-2.0
	0.5s	2.80nm			4.6mb	
GBTN	65.62	63	eP	16	33.27	-1.4
NUR	67.05	348	iP	16	41.80	-1.5
	0.3s	0.90nm			4.3mb	
HFS	68.55	353	eP	16	50.70	-2.0
	0.4s	1.20nm			4.3mb	
GUN	72.06	292	P	17	14.80	-0.2
KKN	72.50	293	P	17	17.40	0.0
PKI	72.59	292	P	17	18.40	0.3
GKN	72.71	293	P	17	19.00	0.5
DMN	72.73	293	P	17	19.60	0.8
GEC2	79.75	352	P	17	57.00	-0.7
	0.6s	0.72nm			3.9mb	
KBA	81.53	352	iPc	18	07.50	0.2
	0.8s	9.50nm			4.9mb	
			i	18	08.10	
WRA	82.02	224	P	18	09.90	0.1
	0.8s	0.70nm			3.7mb	
ASPA	85.49	223	P	18	27.79	0.4
POO	86.26	295	eP	18	34.00	2.5
	S.D. = 1.1	on 34 of 38 obs.				

MAY 16, 1993 22h 27m 58.66± 0.22s
4.983 S ± 4.3km 151.423 E ± 6.2km
DEPTH = 127.8km (3 depth phases)
4.9mb (29 obs.)
NEW BRITAIN REGION, P.N.G. (192)

RAB	1.08	43	iPd	28	20.00	-2.4
			iS	28	40.00	
HNR	9.54	118	P	30	14.00	-0.2
CTA	15.83	198	iPd	31	37.00	1.2
	0.9s	12.60nm			4.2mb	
			ic	31	40.00	
QIS	19.28	216	eP	32	18.80	2.8
	0.7s	36.00nm			4.8mb	
GUA	19.50	341	eP	32	18.80	0.4
	0.7s	509.59nm			6.0mb	X
GUMO	19.56	341	eP	32	18.10	-0.9
	0.9s	464.90nm			5.8mb	
PJG	19.56	341	eP	32	18.70	-0.3
SWI	20.54	281	ePc	32	31.00	2.0
BKM	20.73	129	iPc	32	31.00	0.1
MTN	21.50	247	eP	32	38.50	0.0
WB2	22.30	227	iPd	32	44.80	-1.6
	0.8s	143.20nm			5.4mb	
			eS	36	47.20	
			iScP	40	05.40	
BRS	22.32	177	iPc	32	45.00	-1.6
	0.9s	28.00nm			4.6mb	
			i	33	03.00	82kmX
			i	33	13.00	
DZM	22.36	141	iPc	32	45.90	-1.2
ASPA	25.11	221	eP	33	11.90	-1.4
	0.9s	145.80nm			5.5mb	
			i	33	16.00	15kmX
			eS	37	34.90	
			iScP	40	13.10	
			iScS	44	03.90	
ARMA	25.30	180	eP	33	15.80	0.7
	0.7s	29.00nm			4.9mb	
STK	28.30	198	eP	33	39.70	-2.5
	0.5s	9.90nm			4.8mb	
			e	34	06.40	124km
ADE	32.07	200	eP	34	15.20	-0.3
TOO	32.88	189	eP	34	23.00	0.5
			e	34	46.40	103kmX
MBL	34.61	239	eP	34	33.00	-4.5X
TAU	37.94	185	eP	35	05.00	-0.3
MEEK	38.00	232	eP	35	04.00	-2.1
MRWA	41.27	230	eP	35	30.50	-2.5
	0.6s	16.00nm			4.9mb	
WKYJ	41.76	340	P	35	37.50	0.6
TKSJ	42.09	338	P	35	39.90	0.3
TKSJ	42.09	338	P	35	40.00	0.4
KUMJ	42.13	334	P	35	41.70	1.8
CHJJ	42.45	345	P	35	41.00	-1.4
MUN	42.51	226	eP	35	42.20	-0.8
TSRJ	42.84	341	P	35	45.20	-0.4
MAT	43.12	344	eP	35	45.00	-2.9
	0.6s	16.00nm			4.9mb	
MTMJ	43.27	344	P	35	49.30	0.1
SHNJ	43.37	335	P	35	50.80	0.9
YONJ	43.38	338	P	35	49.80	-0.2
NIIJ	43.57	346	P	35	50.60	-0.9
OFUJ	44.76	349	P	36	00.70	-0.3
SSE	46.05	323	Pc	36	12.00	0.7
	1.5s	27.00nm			4.7mb	
			pP	36	42.50	134km
BJI	55.30	327	eP	37	21.00	0.0
KMI	55.96	305	Pd	37	27.50	1.1
	2.0s	80.00nm			5.3mb	
CHTO	56.83	296	eP	37	32.60	0.2
LZH	60.41	317	eP	37	57.50	0.4
	1.6s	47.00nm			5.2mb	
CSY	67.45	197	P	38	43.40	1.1
YAK	68.87	349	eP	38	49.10	-1.9
	1.0s	55.00nm			5.3mb	
ZAK	68.94	329	iPc	38	51.00	-0.7
	1.3s	43.00nm			5.1mb	
			e	39	22.00	125km
BOD	69.44	340	eP	38	52.00	-2.6
	0.7s	21.00nm			5.1mb	

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MOY     70.88 329 eP      39 04.00    0.5
        1.6s     50.00nm            5.1mb
GUN     71.04 302 P       39 04.80   -0.6
        0.7s     17.00nm            5.0mb
PKI     71.35 301 P       39 07.00   -0.2
KKN     71.52 301 P       39 07.60   -0.5
DMN     71.62 301 P       39 09.00    0.2
        1.1s     38.00nm            5.1mb
GKN     72.13 301 P       39 11.20   -0.4
GBA     75.70 285 P       39 33.00    0.8
ILT     75.70  11 iPc     39 30.00   -1.2
        1.4s     14.00nm            4.5mb
SVW     77.52  23 eP      39 41.65    0.1
        0.9s     25.62nm            5.0mb
TTA     78.44  22 eP      39 46.54   -0.1
        0.6s      3.41nm            4.3mb
SLKM    79.42  25 eP      39 52.58    0.7
PMR     80.42  25 eP      39 58.60    1.5
IMA     81.09  20 eP      40 00.32   -0.4
        0.9s      2.39nm            4.0mb
KLU     81.73  26 eP      40 04.02   -0.1
FBA     82.57  22 eP      40 07.10   -1.2
        0.5s      7.19nm            4.8mb
BALM    83.10  27 eP      40 10.96   -0.3
FRU     83.75 314 eP      40 16.00    1.2
        2.0s     40.00nm            4.9mb
                   e      40 28.50   42kmX
MAW     84 87 203 P       40 22.39    2.5
NRI     85.55 342 eP      40 23.00   -0.2
        1.6s     18.00nm            4.7mb
INK     89.12  21 eP      40 41.00    0.6
        1.0s      1.00nm            3.8mb X
LBFM    90.77  49 eP      40 50.09    1.2
                   e      41 13.88   88kmX
BCH     91 61  55 eP      40 54.37    1.6
BONR    93 25  52 eP      41 01.08    0.6
PLM     94.14  57 eP      41 05.75    1.2
GSC     94 29  55 eP      41 06.11    1.0
MBC     94.62  14 eP      41 06.50    0.9
        0.7s      2.00nm            4.6mb
TPNV    94.82  53 eP      41 08.82    1.2
        0.6s      7.32nm            5.2mb
YKA     96.23  28 eP      41 12.00   -1.2
        0.6s      1.50nm            4.6mb
BUL    118.53 244 ePKP    46 34.20    0.3
ZST    122 00 326 ePKP    46 39.70    0.2
CLL    122 34 330 ePKP    46 40.00    0.0
KHC    123.38 328 PKP     46 43.20    1.0
GEC2   123.49 328 PKP     46 41.10   -1.4
        0.5s      0.98nm
                   e      46 43.80
                   e      46 49.40
GRF    124.24 330 ePKPc   46 45.30    1.5
BSF    127.67 330 ePKP    46 50.40   -0.2
        0.7s      3.10nm
HAU    127.77 331 ePKP    46 50.70    0.0
        1.0s     10.40nm
LPL    129.27 328 ePKP    46 54.10    0.2
        0.6s      2.00nm
LPG    129.27 328 ePKP    46 54.30    0.3
        0.6s      1.80nm
LOR    129.48 332 ePKP    46 54.50    0.5
        0.9s      6.20nm
SSF    129.80 332 ePKP    46 54.90    0.3
        0.9s      4.90nm
LDF    130.24 336 ePKP    46 55.00   -0.3
BGF    130.47 332 ePKP    46 56.40    0.5
        0.6s      2.55nm
GRR    130.71 336 ePKP    46 56.80    0.6
        0.8s      5.90nm
TCF    130.97 332 ePKP    46 57.90    1.0
        0.7s      3.10nm
LPF    131.07 336 ePKP    46 57.60    0.7
        0.7s      7.70nm
BCAO   133.05 271 iPKPd   47 03.00    1.3
        0.8s     14.00nm
CNCB   135.44 120 PKP     47 05.00   -1.8
ZOBO   135.55 119 PKP     47 08.00    0.9
IFR    144.19 325 ePKP    47 20.00   -1.7
PPD    145.12 141 ePKP    47 21.20   -2.2
                   e      47 23.70
AVE    145.62 328 iPKPc   47 25.00    1.1
VAO    146.89 148 (PKP)   47 28.00    1.7
TIO    147.32 325 iPKP    47 27.00    0.1
                   i      47 30.50
BAO    151.91 137 (PKP)   47 40.00    5.7X
     S.D. = 1.2  on  96 of  98 obs.
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%  MAY  16, 1993  22h 43m 57.16± 2.14s
   39.678 N ±11.1km   15.392 E ±16.6km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN ITALY                  (390)

MGR     0.48  15 P      44 07.00    0.2
                eSg     44 14.90
CSI     0.70  82 P      44 11.00    0.0
TDS     0.73  91 P      44 11.60    0.1
CZI     0.74 128 P      44 11.70    0.1
SGO     0.88 356 P      44 13.90   -0.2
                eSg     44 26.00
ROI     0.92  96 P      44 14.40   -0.3
     S.D. = 0.2  on   6 of   6 obs.
-------------------------------------
*  MAY  16, 1993  23h 02m 16.42± 2.24s
   39.190 N ±17.1km   22.776 E ±19.1km
   DEPTH =  10.0km  (geophysicist)
 GREECE                          (364)

AGG     0.38 244 iPg    02 24.30    0.0
                eSg     02 31.82
LIT     0.94 346 iPg    02 33.38   -0.9
                eSg     02 47.30
THE     1.45   6 ePb    02 42.86    0.2
                eSb     03 00.02
SOH     1.69  15 ePb    02 45.78   -0.4
                iSb     03 07.38
GRG     1.79 351 iPb    02 49.93    2.4
                eSb     03 11.06
FNA     1.92 326 ePb    02 48.90   -0.6
KNT     1.97   3 ePb    02 49.74   -0.5
SRS     2.02  18 ePn    02 50.50   -0.5
                eSn     03 15.74
VAY     2.13 356 ePn    02 52.80    0.3
OHR     2.45 322 ePn    02 02.30  -54.8X
SKO     2.96 340 ePn    03 15.20   10.9X
     S.D. = 1.1  on   9 of  11 obs.
-------------------------------------
%  MAY  17, 1993  00h 03m 16.32± 1.72s
   39.581 N ±11.4km   23.499 E ±13.4km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                      (365)

PAIG    0.37  22 iPg    03 24.32    0.3
                eSg     03 30.60
LIT     0.93 304 ePg    03 34.28    0.1
                eSg     03 47.40
AGG     1.06 239 ePg    03 36.40    0.0
                eSg     03 51.12
THE     1.13 339 ePg    03 37.60    0.2
                eSg     03 53.20
SOH     1.24 355 iPb    03 39.12   -0.3
SRS     1.54   3 ePb    03 43.52   -0.3
     S.D. = 0.3  on   6 of   6 obs.
-------------------------------------
   MAY  17, 1993  00h 11m 49.52± 0.53s
   40.352 N ± 4.7km   27.316 E ± 4.4km
   DEPTH =   5 0km  (geophysicist)
 TURKEY                          (366)
     ML 3.1 (ISK).

KGT     0.10 355 iPg    11 51.70    0.0
EDC     0.42  91 iPg    11 58.50    0.6
                iSg     12 04.50
BNT     0.46  89 iPg    11 59.20    0.4
                iSg     12 05.20
KCT     0.80  97 iPg    12 04.20   -1.4
EZN     0.92 236 iPg    12 07.40   -0.2
                eSg     12 21.40
CTT     1.16  46 iPn    12 11.40   -0.3
ISK     1.50  61 ePn    12 17.20    0.0
DMK     1.51  13 ePn    12 17.50    0.3
YLV     1.58  82 ePn    12 18.70    0.3
GBZT    1.68  74 ePn    12 44.30   24.6X
HRT     1.85  75 ePn    12 22.00   -0.2
IZM     1.95 181 ePn    12 24.00    0.3
EYL     2.18  83 ePn    12 27.00    0.0
ALT     2.52 120 ePn    12 32.00    0.2
     S.D. = 0.5  on  13 of  14 obs.
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&  MAY  17, 1993  00h 47m 42.02s
    59.816 N          153.301 W
   DEPTH = 121.3km
 SOUTHERN ALASKA                 (  2)
      <AEIC>.
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INW     0.27  18 iP      47 58.49    0.7
INE     0.27  26 eP      47 58.76    0.9
                eS      48 11.80
AUL     0.44 189 iP      47 59.40   -0.6
AUH     0.46 189 eP      47 59.63   -0.6
AUE     0.46 185 iP      47 59.24   -0.8
AUI     0.49 188 iP      47 59.35   -0.9
                eS      48 12.53
RDW     0.71  20 eP      48 01.15   -1.0
REF     0.74  24 eP      48 01.57   -0.7
                eS      48 16.62
NCT     0.77  14 iP      48 01.29   -1.2
DFR     0.84  21 iP      48 02.24   -0.8
CDD     0.91 191 iP      48 02.52   -1.1
CNPM    1.09 105 iP      48 04.29   -1.1
                eS      48 21.70
BRLK    1.22  91 eP      48 05.65   -1.2
                eS      48 23.56
SYI     1.30 158 eP      48 06.47   -1.1
NKA     1.39  47 eP      48 09.79    1.2
CKL     1.46  19 iP      48 09.11   -0.5
                eS      48 30.21
CKT     1.49  21 iP      48 09.22   -0.7
SPU     1.50  24 iP      48 09.21   -0.8
                eS      48 31.28
CKN     1.52  21 eP      48 10.14    0.0
BGL     1.52  17 eP      48 10.07   -0.2
CP2     1.54  19 eP      48 10.18   -0.5
CPAM    1.55  21 eP      48 10.21   -0.4
CRP     1.56  21 eP      48 10.34   -0.5
CGLM    1.63  23 eP      48 11.05   -0.5
SLKM    1.69  64 iP      48 11.45   -0.7
SEW     1.96  80 eP      48 14.35   -1.1
SUA     2.08  36 iP      48 16.73   -0.4
MPA     2.08  69 iP      48 16.15   -0.9
KDC     2.12 16B eP      48 16.38   -1.0
PMS     2.34  51 eP      48 19.47   -0.9
PTE     2.37  62 eP      48 19.63   -1.1
PLRM    2.72  47 eP      48 24.10   -1.1
SML     3.15  48 iP      48 29.76   -1.3
HIN     3.45  77 eP      48 33.53   -1.6
KLU     4.00  62 eP      48 40.10   -2.5
     35 obs. associated
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&  MAY  17, 1993  01h 32m 15.97s
    36.097 N          117.708 W
   DEPTH =   1.5km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      <PAS-P>. ML 2.8 (PAS).

VPEM    0.17 211 P       32 19.50    0.1
NMC     0.30 212 P       32 21.95    0.0
WCHM    0.37 234 P       32 23.12   -0.2
WLHM    0.49 277 P       32 25.37   -0.4
WSHM    0.50 159 P       32 25.79   -0.1
WBSM    0.66 212 P       32 28.68   -0.5
ISA     0.76 235 eP      32 30.02   -1.1
                eS      32 40.69
WASM    0.78 243 P       32 30.80   -0.7
WJPM    0.93 223 P       32 33.50   -1.1
WOFM    0.99 236 P       32 34.68   -1.0
SNDC    1.07 207 P       32 36.29   -0.7
GSC     1.08 137 eP      32 35.81   -1.4
                eS      32 51.29
ARVC    1.33 224 P       32 41.52    0.2
BHPR    1.35 333 P       32 41.34   -0.6
TPNV    1.45  54 ePn     32 42.16   -1.3
CWCR    1.48 341 P       32 43.11   -0.8
MRCM    1.70 338 eP      32 47.09    0.1
MARC    1.72 231 P       32 47.95    0.8
CLKR    1.74 329 P       32 47.38   -0.3
ABL     1.75 225 ePn     32 47.97    0.1
MCSM    1.83 329 P       32 50.04    1.1
MMPM    1.84 325 eP      32 49.68    0.4
                eS      33 13.54
CRGC    1.85 243 P       32 50.36    1.2
MEMM    1.85 328 ePn     32 49.93    0.9
SSK     1.88 180 ePn     32 50.21    0.5
BONR    1.91 346 ePn     32 50.62    0.4
PKEM    1.95 270 eP      32 49.29   -1.1
YEG     1.95 251 P       32 51.74    1.2
TNP     2.02  11 ePn     32 51.34   -0.4
                ePg     32 54.49
PARM    2.14 275 P       32 54.70    1.5
BCH     2.14 246 ePn     32 52.78   -0.6
PHAM    2.20 264 ePn     32 54.06   -0.1
PEC     2.25 168 ePn     32 53.54   -1.3
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17d 01h

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CIT     41.79 350 eP     16 26.00   0.9
      Z  18s      6.55um          5.6Msz
      N  18s      5.24um
      E  16s      4.09um
                  eS     22 44.00
                  e      26 16.00
ZAK     43.00 340 iPc    16 34.70  -0.2
        1.9s    168.00nm          5.4mb
      Z  15s      2.94um          5.3MszX
      E  20s      8.64um
                  eS     22 54.00
IRK     44.29 342 ePc    16 44.80  -0.6
        1.6s    132.00nm          5.5mb
      Z  17s      5.50um          5.5MszX
      N  16s      3.90um
      E  17s      3.61um
                  e      17 17.20
                  e      17 30.00
                  ePP    18 29.70
                  eS     23 15.00
                  e      23 34.00
                  e      24 08.00
                  e      26 45.00
                  e      27 56.00
MOY     44.88 339 iPc    16 51.00   0.9
        1.8s    390.00nm          6.0mb
HYB     45.22 284 ePd    16 54.60   1.3
        1.0s     80.00nm          5.6mb
STK     45.65 160 iPc    16 56.00  -0.5
        0.8s     15.40nm          5.0mb
                  ePP    18 44.50
                  eS     23 43.40
GBA     46.33 278 Pd     17 03.00   1.0
BOD     47.35 352 iPc    17 10.00   0.4
        1.7s    180.00nm          5.8mb
UER     47.47 334 iPc    17 12.00   1.4
        1.9s    220.00nm          5.8mb
      Z  16s      7.09um          5.7MszX
      N  17s      5.00um
      E  16s      6.20um
                  e      19 03.00
                  eS     24 07.80
ADE     47.67 165 eP     17 12.60   0.2
NDI     47.73 299 iPc    17 14.80   1.7
ARMA    48.66 149 eP     17 20.40   0.1
        1.0s     22.00nm          5.1mb
PET     49.82  26 eP     17 29.00   0.3
                  eS     24 40.00
BWA     50.51 155 eP     17 35.70   1.4
                  i      17 47.90
YAK     50.95   3 iPc    17 36.50  -0.6
        2.0s    266.00nm          5.9mb
      Z  18s      3.60um          5.4Msz
      N  17s      2.70um
      E  16s      1.10um
                  e      18 53.00
                  i      19 38.00
                  ePPP   20 34.00
                  eS     24 52.00
                  ePS    25 02.00
PRZ     51 02 316 eP     17 36.00  -2.3
        1.5s    270.00nm          6.0mb
                  eS     24 58.00
BKM     51 52 123 iPc    17 41.00  -1.2
CAN     51.52 155 eP     17 41.60  -0.4
                  i      17 51.20
CNB     51.67 154 eP     17 43.70   0.6
        1.1s     51 00nm          5.4mb
TLG     52.02 317 eP     17 47.00   1.3
      Z  18s      5.30um          5.6Msz
                  e      18 57.00
                  iS     25 13.00
ELT     52.12 332 iPc    17 45.20  -1.0
        1.7s    137.00nm          5.6mb
      Z  13s      1.00um          5.0MszX
TOO     52.15 159 iPd    17 46.10  -0.6
        0.9s     57.00nm          5.5mb
DZM     52.46 129 iPc    17 49.00  -0.3
MGD     52.57  16 ePc+   17 48.50  -1.0
        1.2s     70.00nm          5.5mb
      Z  18s      2.80um          5.3Msz
      N  18s      2.40um
      E  18s      1.40um
                  e      17 59.00
                  e      19 00.00
                  ePPP   20 50.00
                  eS     25 06.00
                  e      27 34.00
                  eSSS   30 36.00
FRU     53.74 315 ePd    17 58.00  -0.4
                  eS     25 32.00
TAU     57.55 161 eP     18 26.00   0.2
TIK     60.54   1 iPc+   18 44.00  -2.1
        2.0s    410.00nm          6.2mb
      Z  17s      4.00um          5.6MszX
                  i      18 53.00
                  e      20 55.00
                  ePPP   22 29.00
                  ePS    26 58.00
NRI     62.78 346 ePc    18 59.00  -2.2
        2.0s    199.00nm          5.9mb
                  e      19 10.00
                  eS     27 26.00
                  ePS    27 41.00
                  eSS    31 35.00
MAIO    63.67 305 eP     19 07.00  -0.8
ASH     64.75 307 eP     19 15.00   0.3
                  e      21 35.00
                  e      27 58.00
                  e      28 11.00
KAT     66.49 308 eP     19 25.00  -0.8
      Z  16s      2.40um          5.5MszX
      N  16s      1.50um
      E  16s      2.20um
                  e      21 48.00
                  ePPP   23 30.00
                  eS     28 14.00
                  ePS    28 33.00
                  eSSS   35 21.00
SVE     66.75 327 ePd    19 27.00  -0.2
        1.1s    140 00nm          6.0mb
                  e      20 01.50
                  eS     28 15.00
ILT     67.52  20 iPc    19 31 00  -0.8
        1.6s     39.00nm          5.3mb
      Z  16s      0 80um          5.0MszX
      E  16s      1.00um
                  i      19 37.50
                  ı      19 47.00
                  eS     28 23 00
ARU     67.74 327 ePc    19 32.00  -1.4
        1.6s    200.00nm          6.0mb
      Z  16s      3.50um          5.7MszX
      N  16s      1 00um
      E  16s      2.50um
                  e      19 44.00
                  e      20 02.00
                  eS     28 28.00
                  ePS    29 02.00
                  eSS    32 52 00
BAK     71.44 309 iPc    19 49.00  -7.4X
                  iS     29 11.00
SHE     72.41 309 iPd    20 03.00   0.9
        1.8s    140.00nm          5.7mb
      Z  18s      1.10um          5.2Msz
      N  18s      1.20um
      E  16s      1.00um
                  iS     29 32.00
MAK     73.32 312 eP     20 08.00   0.6
                  e      20 26.00
                  e      22 54.00
                  eS     29 36.00
                  ePS    30 16.00
                  eSS    34 14.00
GRS     74.19 308 eP     20 12.00  -0.8
        1.7s    120.00nm          5.6mb
      Z  20s      1.02um          5.1Msz
      N  18s      0.87um
      E  18s      0.87um
                  eS     29 44.00
TAB     74.24 307 eP     20 13.00  -0.1
GRO     74.60 312 iP+    20 14 00  -0.9
        1.5s    160.00nm          5.8mb
      Z  14s      1 50um          5.4MszX
      N  20s      9 50um
      E  20s      3.50um
                  i      23 10.00
                  eS     29 53.00
TTA     75.24  28 eP     20 18 68   0.4
        1.0s      4 82nm          4.5mb X
SVW     75.29  30 eP     20 19.59   1.0
        0.8s     17.17nm          5.1mb
MTA     75.29 310 eP     20 18.00  -0.8
      Z  17s      0 50um          4 9MszX
      N  17s      0.50um
      E  17s      1.00um
                  i      20 23.20
                  e      23 12.00
                  eS     29 57.00
ERE     75.58 309 iP+    20 20.00  -0.7
        2.5s     38.00nm          4.9mb
                  iS     30 04.00
MJMA    75.92 294 eP     20 24.33   1.5
IMA     76.46  25 ePc    20 25.60   0 4
        1.1s     17.10nm          5.0mb
PYA     76.49 313 iPd    20 20.00  -5.6X
      Z  18s      2.00um          5.5Msz
                  i      20 30.00
                  eS     30 09.00
                  iPS    30 40.00
RSO     76.67   30 eP     20 25.93  -0.6
KIV     76.76 313 ePc    20 26.60  -0 7
        2.4s    305.00nm          5.9mb
      Z  17s      1.50um          5.4MszX
                  eS     30 09.60
CP2     76.93   29 eP     20 28.60   0.6
AFIF    78.01 292 eP     20 36.00   1.5
DRV     78.35 174 eP     20 36.60   1.3
PMR     78.43   29 eP     20 35.66  -0.2
        0.9s     21.93nm          5.2mb
FBA     78.91   26 eP     20 38.66   0.1
        0.9s      4.90nm          4.5mb
SOC     78.93 312 eP     20 36.00  -3.0
        3.0s    406.00nm          5.9mb
      Z  16s      2.50um          5.6MszX
      N  16s      1.50um
      E  16s      1.60um
                  e      23 42.00
                  ePPP   30 30.00
                  ePS    31 10.00
                  eSS    35 40.00
ABHA    79.17 287 eP     20 43.33   2.2X
MOS     79.35 325 iPd    20 41.00  -0.1
        2.0s    320.00nm          6.0mb
      Z  18s      3.40um          5.7Msz
                  e      23 41.00
                  eS     30 36.00
KLU     79.97   29 eP     20 44.98   0.6
OBN     79.99 324 iPd+   20 43.90  -0.6
        1.8s    240.00nm          5.9mb
      Z  18s      2.00um          5.5Msz
      N  18s      1.80um
      E  18s      1.20um
                  i      20 51.00
                  i      20 57.50
                  eS     30 40.00
                  e      30 50.00
                  (PS)   31 30.00
ANN     80.53 314 eP     20 45.00  -2.6
        1.3s     50.00nm          5.4mb
      Z  22s      2.00um          5.4Msz
      N  22s      2.50um
      E  22s      2.00um
BALM    81.73   29 eP     20 53.16  -0.6
KEV     82.37 340 eP     20 58.00   1.3
                  eS     31 12.00
PUL     82.77 329 ePc    21 02.00   3.0X
        1.5s    150.00nm          5.9mb
      Z  24s      2.80um          5.6MszX
      N  20s      2.10um
      E  20s      1.30um
                  e      21 09.00
                  eS     31 14.00
                  ePS    32 15.00
SDF     83.06 337 eP     20 59.90  -0.5
HRI     83.26 302 eP     21 02.30   0.0
DSI     83.83 301 eP     21 05.10   0.1
INK     84.03   21 eP     21 07.50   2.2X
        1.4s     11.00nm          4.8mb
SAGI    84.66 300 eP     21 09.00  -0.3
CSS     84.96 304 eP     21 12.50   1.9
MBC     85.21   12 eP     21 12.00   0.9
        1.0s      7.00nm          4.8mb
MNK     85.37 324 eP     21 11.00  -1.2
      Z  20s      2.90um          5.7Msz
KIS     86.01 317 eP     21 14.00  -1.6
      Z  23s      2.50um          5.5MszX
      N  20s      1.70um
      E  24s      2.30um
                  e      26 30.00
                  eS     31 46.00
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17d 02h

VRI	87.71	316	eP	21	28.00	4.1X
MLR	88.33	316	eP	21	38.00	11.0X
LVV	88.48	320	eP	21	30.00	2.5X
			e	33	15.00	
UPP	88.94	331	iP	21	31.10	1.7
CMP	89.00	316	ePd	21	40.00	9.9X
DAG	89.76	352	eP	21	24.30	-8.8X
	1.1s	10.13nm			5.0mb	
UZH	89.90	320	eP	21	35.20	1.0
	1.6s	67.00nm			5.7mb	
			e	21	48.40	
			e	25	14.00	
			e	31	57.00	
			iS	32	25.00	
			ePS	33	37.00	
HFS	90.66	332	eP	21	38.10	0.6
	0.4s	1.10nm			4.5mb	
	Z 18s	2378.00um			8.7MszX	
			LR	57	18.00	
SPC	91.03	321	eP	21	40.60	0.9
NB2	91 39	334	P	21	40.60	-0.3
	0.9s	5.80nm			5.0mb	
SKO	92.42	313	iP	21	46.00	0.0
			i	25	23.70	
KSP	92.87	323	eP	21	47.50	-0.4
			e	24	40.80	
ZST	93.32	320	eP	21	50.80	0.8
			e	25	38.50	
YKA	93.56	24	eP	21	50.70	-0.1
	0.9s	3.40nm			4.8mb	
PRU	94.23	323	P	21	55.20	1.1
	N 25s	4.70um				
	E 20s	1.30um				
			e	25	47.00	
BRG	94 23	324	eP	21	53.80	-0.3
	2.0s	44.00nm			5.5mb	
			e	22	11.00	
CLL	94 60	324	eP	21	56.00	0.2
	Z 17s	2.00um			5.7MszX	
KHC	95 14	322	eP	22	05.50	7.1X
	Z 20s	2.70um			5.7Msz	
	N 20s	1.60um				
	E 20s	1.50um				
			e	22	20.50	
			e	23	24.00	
			e	25	48.00	
RMW	97.09	39	eP	22	09.22	1.8
BUL	99.53	251	eP	22	17.00	-1.9
BCAO	105.08	278	iPKPd	27	04.00	5.4X
	1.0s	10.00nm				
LTX	118.33	48	ePKP	27	22.39	-1.1
GOGA	128.16	30	ePKP	27	41.28	-0.9
CNCB	166.32	116	PKP	28	41.00	-0.4
			i	29	44.00	
LPB	166.32	115	PKP	28	44.70	3.5X
			e	29	46.00	
			eLR	26	24.00	
ZOBO	166.39	114	PKP	28	43.20	1.7
			i	29	45.70	
			LR	26	40.00	
SIV	172.47	131	PKP	28	44.90	0.6
	S.D. = 1.1	on 133 of 153 obs.				

? MAY 17, 1993 02h 42m 18.42± 0.54s
15.121 S ±29.7km 173.563 W ±21.8km
DEPTH = 33.0km (normal)
4.7mb (12 obs.)
TONGA ISLANDS (173)

DZM	20.16	247	iPd	46	55.10	2.1
TOO	42.52	230	iPd	50	10.20	-2.4
	0.9s	37.00nm			5.1mb	
STK	44.04	240	eP	50	24.20	-0.8
	0.6s	3.40nm			4.3mb	
WB2	49.74	257	eP	51	08.20	-1.8
	0.7s	7.20nm			4.8mb	
WRA	49.75	257	P	51	09.60	-0.5
	0.6s	1.50nm			4.2mb	
ASPA	50.05	252	iPd	51	11.20	-1.1
	0.6s	15.60nm			5.2mb	
BMW	76.19	33	eP	54	04.78	-0.4
RMW	77.57	33	eP	54	12.66	-0.2
			e	54	29.68	
MSU	78.34	45	eP	54	17.48	0.0
DUG	78.76	43	eP	54	19.21	-0.4
	1.1s	5.80nm			4.5mb	
SRU	79.76	45	eP	54	24.46	-0.7
DAU	79.90	43	eP	54	25.92	-0.1
PV09	80.42	46	eP	54	28.48	-0.3
LTX	80.59	56	eP	54	28.13	-1.5
			e	54	44.21	
PV08	80.80	46	eP	54	30.42	-0 4
LRM	81.90	38	ePc	54	35.90	-0.4
FBA	82.15	11	iPc	54	36.38	-0.5
	0.7s	8.65nm			4.9mb	
BW06	82.17	42	ePc	54	36.87	-0.9
	0.9s	4.35nm			4.5mb	
GOL	83.58	46	iPc	54	44.72	-0.4
	0.8s	7.80nm			4.9mb	
GLD	83.70	46	eP	54	46.34	0.7
	1.2s	19.41nm			5.1mb	
RSSD	86.36	43	eP	54	57.88	-1.0
	1.0s	6.82nm			4.8mb	
MEO	86.63	53	iPc	54	59.40	-0.7
MAW	88.01	199	P	55	07.40	1.2
INK	88.04	14	eP	55	07.50	1.4
YKA	89.91	23	eP	55	14.10	-1 0
	0.8s	1.50nm			4.3mb	
CLL	143.52	353	ePKP	01	49.00	-2.3
SPC	144.19	344	ePKP	01	50.30	-2.5
PRU	144 61	351	ePKP	01	52.00	-1.2
			e	01	55.50	
VRI	144.93	335	ePKPd	01	56.50	2.6X
GRF	145.30	355	iPKPc	01	54.90	0.5
			e	01	58.20	
			e	02	13.30	
MLR	145.55	335	ePKP	01	57.50	2.3X
KHC	145.58	352	PKP	01	56.00	1.0
			e	02	14.20	
GEC2	145.84	351	PKP	01	55.90	0.4
	0.8s	2.30nm				
			e	01	59.80	
			e	02	03.80	
			e	02	14.90	
SRO	145.95	346	ePKP	01	57.00	1.5
LPF	146.61	9	ePKP	01	58.20	1.6
	1.2s	26.20nm				
CDF	146.80	359	ePKP	01	58.40	1.4
	1.2s	18.45nm				
HAU	147.21	0	ePKP	01	59.80	2.2
	1.1s	16.10nm				
LOR	147.88	3	ePKP	02	00.20	1.5
	0.9s	6.70nm				
SSF	148.06	4	ePKP	02	01.00	2.0
	0.9s	9.50nm				
LBF	148.17	3	ePKP	02	02.10	2.9X
	1.0s	8.40nm				
BGF	148.52	5	ePKP	02	01.90	2.2
	1.1s	12.95nm				
LSF	148.70	7	ePKP	02	02.10	2.1
	1.3s	22.40nm				
MAF	148.83	5	ePKP	02	02.70	2.4X
	1.3s	15.90nm				
LPL	149.70	360	ePKP	02	07.10	5.2X
	1.1s	8.80nm				
LPG	149.72	360	ePKP	02	07.50	5.5X
	1.0s	10.00nm				
SKO	150.27	337	iPKP	02	08.40	5.8X
OHR	151.26	337	iPKP	02	10.00	5.9X
	0.9s	31.00nm				
BCAO	164.05	229	ePKPc	02	20.00	-0.2
	0.7s	6.00nm				
			id	03	14.10	
	S.D. = 1.4	on 40 of 48 obs.				

? MAY 17, 1993 02h 49m 36.52± 4.37s
17.092 N ±26.5km 101.259 W ±31.7km
DEPTH = 33.0km (normal)
NEAR COAST OF GUERRERO, MEXICO (58)

ACX	1.36	99	(P)	49	59.50	0.1
			(S)	50	20.50	
III	2.13	53	iP	50	10.75	0.0
			iS	50	39.00	
MRX	2.60	1	iP	50	16.75	-0.4
			iS	50	46.50	
CRX	2.75	33	(P)	50	20.50	1.0
PPM	3.18	52	(P)	50	25.00	-0.9
			iS	51	04.50	
IISM	4.15	62	(P)	50	42.50	3.4X
			(S)	51	21.50	
	S.D. = 1.0	on 5 of 6 obs.				

& MAY 17, 1993 03h 00m 16.79s
59.585 N 151.128 W
DEPTH = 36.1km
KENAI PENINSULA, ALASKA (14)
<AEIC>. ML 2.5 (AEIC).

CNPM	0.08	223	iP	00	22.51	-0.4
			eS	00	27.66	
BRLK	0.22	34	iP	00	23.56	-0.4
			eS	00	29.60	
XLV	0.33	247	iP	00	23.98	-1.2
			eS	00	30.17	
SEW	0.99	58	eP	00	33.45	-0.9
			eS	00	47.92	
SLKM	1.03	26	iP	00	33.95	-1.0
			S	00	48.10	
INE	1.09	297	eP	00	34.46	-1.4
			eS	00	48.91	
INW	1.12	296	eP	00	35.29	-1.1
			eS	00	49.94	
NKA	1.16	357	eP	00	37.83	1.0
AUE	1.17	260	iP	00	36.37	-0.5
SYI	1.18	214	eP	00	36.05	-0.9
AUL	1.19	261	eP	00	36.65	-0.6
RSO	1.20	318	eP	00	36.08	-1.5
			eS	00	52.75	
AUI	1.20	259	eP	00	36.59	-0.8
			eS	00	52.89	
AUH	1.20	260	eP	00	36.87	-0.6
RDW	1.23	318	eP	00	36.88	-1.1
			eS	00	53.23	
MPA	1.27	44	eP	00	38.05	-0.2
			eS	00	53.67	
DFR	1.28	323	eP	00	37.52	-1.0
			eS	00	54.04	
NCT	1.33	318	iP	00	38.19	-1.2
			eS	00	54.42	
CDD	1.45	244	iP	00	40.16	-0.9
PTE	1.66	38	eP	00	43.04	-1.0
SPU	1.67	344	iP	00	43.20	-1.0
CKT	1.71	342	eP	00	44.49	-0.3
CKL	1.72	340	eP	00	44.36	-0.7
CKN	1.73	343	eP	00	44.54	-0.5
CPAM	1.75	344	eP	00	44.68	-0.7
CRP	1.76	344	eP	00	44.66	-1.0
CP2	1.77	342	(P)	00	45.00	-0.9
BGL	1.80	340	eP	00	45.70	-0.4
PMS	1.84	24	P	00	45.70	-0.9
SUA	1.89	6	eP	00	46.95	-0.5
PWA	2.16	16	P	00	51.90	0.8
PLRM	2.24	25	eP	00	51.92	-0.3
PMR	2.24	25	(P)	00	52.27	0.0
SKT	2.41	355	eP	00	54.30	-0.4
GHO	2.45	25	eP	00	55.39	0.1
HIN	2.46	69	eP	00	53.77	-1.7
SML	2.62	30	eP	00	56.51	-1.2
VLZ	2.84	55	eP	00	58.52	-2.2
KLU	3.21	51	eP	01	04.16	-1.9
	39 obs. ossociated					

% MAY 17, 1993 04h 22m 30.55± 0.95s
37.989 N ±13.9km 14.112 E ± 6.6km
DEPTH = 10.0km (geophysicist)
SICILY (398)

GIB	0.07	271	P	22	32.90	-0.1
			eSg	22	35.30	
MNO	0.46	97	P	22	39.80	-0.2
			eSg	22	47.40	
ATN	1.08	80	P	22	50.80	-0.1
MEU	1.10	143	P	22	51.30	0.0
			eSn	23	06.10	
SOI	1.54	86	P	22	58.30	0.3
	S.D. = 0.3	on 5 of 5 obs.				

MAY 17, 1993 04h 32m 42.83± 0.18s
37.561 N ± 3.4km 142.569 E ± 2.9km
DEPTH = 28.5km (27 depth phases)
5.3mb (98 obs.) 5.1Msz (11 obs.)
OFF EAST COAST OF HONSHU, JAPAN (229)

OFUJ	1.67	335	P	33	10.80	0.2
			S	33	32.40	
YAMJ	2.10	288	iP+	33	17.40	0.7
			eS	33	43.50	
KAKJ	2.35	236	P	33	19.40	-0.8
NIIJ	2.86	265	P	33	27.90	0.4
			eS	34	01.10	

CHJJ 3.24 243 P 33 32.60 -0.3
eS 34 09.90
AOMJ 3.45 331 P 33 37.00 1.1
MAT 3.63 255 iPc 33 39.60 1.0
eS 34 30.00
MTMJ 3.93 257 P 33 44.00 1.2
IIDJ 4.29 242 P 33 49.70 1.9
eS 34 40.30
HOOJ 4.85 6 P 33 54.50 -1 2
eS 34 47.90
MRRJ 4.99 347 eP 33 57.90 0.1
SAP 5.57 351 eP 34 06.00 0.1
eS 35 13.00
TSRJ 5.67 251 P 34 07.90 0.5
eS 35 17.40
KUSJ 5.77 16 eP 34 05.70 -3.0X
eS 35 08.20
ASAJ 6.55 0 eP 34 17.80 -1.9
WKYJ 6.57 242 P 34 19.30 -0.8
YONJ 7.72 255 P 34 35.90 -0.2
TKSJ 7.79 245 P 34 36.80 -0.3
SHK 8.56 252 eP 34 49.00 1.1
KUR 8.64 26 eP 34 46.00 -2.8
Z 14s 3.20um
N 14s 3.20um
E 14s 5.90um
eS 36 16.00
YSS 9.45 1 iPd+ 34 57.10 -2.9
1.2s 160.00nm 6.1mb
Z 18s 3.60um 5.0Msz
N 18s 2.50um
E 18s 4.00um
eS 36 39.00
VLA 9.86 308 iPc 35 05.00 -0.7
2 0s 228.00nm 6.1mb
Z 13s 3.00um 4.8MszX
N 14s 6.00um
E 13s 1.00um
SHNJ 9.91 253 P 35 07.40 0.9
KUMJ 10 85 246 P 35 18.50 -0.8
KAGJ 11.55 240 eP 35 30.10 1.2
SKR 16.28 32 eP 36 37.30 6.5X
1.0s 120.00nm 5.0mb
Z 14s 2.10um 5.2MszX
N 14s 1.30um
E 14s 1.10um
SSE 18 78 256 Pc+ 37 01.00 -1.1
1 1s 62.00nm 4.7mb
Z 20s 4.60um 4.3Msz
N 16s 2.00um
E 16s 4.70um
S 40 28.00
sS 40 40.00
PET 19 08 31 eP 37 11.00 5.4X
Z 20s 2.70um
BJI 20.70 285 eP 37 19.00 -4.1X
2 0s 198.00nm 5.2mb
Z 21s 1.52um 4.3Msz
N 13s 1.26um
eS 41 09.00
MGD 23.16 11 ePc+ 37 47.00 -0.6
1.0s 60.00nm 5.1mb
Z 16s 1.10um 4.4MszX
N 16s 0.90um
E 16s 0.70um
i 37 57.00 37km
e 38 13.00
eSS 42 42.00
GUMO 23.96 174 e(P) 37 55.90 0.2
GUMO 23 96 174 eP 38 03.10 7.4X
1 1s 73.30nm 5.1mb
e 38 16.60 56kmX
PJG 23.96 174 eP 38 03.10 7.4X
GUA 24.01 174 eP 38 03.70 7.5X
0.8s 89.55nm 5.4mb
YAK 25.75 346 iPc 38 11.50 -0.8
Z 15s 2.80um 4.9MszX
N 15s 2.20um
E 15s 1.90um
e 38 54.00 218kmX
eSS 43 54.00
BOD 27.53 327 iPc 38 28.20 -0.5
1.0s 92.00nm 5.4mb
IRK 30.42 311 eP 38 43.60 -11.1X
Z 17s 3.78um 5.1MszX
N 15s 0.83um
E 15s 3.32um

e 38 52.00 29km
e 39 02.00
e 39 22.80
ZAK 30.67 307 iPc 38 56.50 -0.4
1.4s 81.00nm 5.3mb
Z 15s 5.10um 5.3MszX
N 14s 2.38um
E 17s 5.25um
eS 44 00.00
ADK 31.84 50 (P) 39 09.25 2.1
1.0s 38.13nm 5.3mb
MOY 32.32 309 eP 39 11.10 -0.2
1.5s 44.00nm 5.2mb
TIK 34.87 352 iPc 39 32.00 -1.2
1.6s 39.00nm 5.1mb
Z 16s 2.00um 5.0MszX
i 39 47.00 60kmX
eS 45 05.00
eSS 47 38.00
KMI 35.95 261 Pc 39 42.00 -1.2
1.5s 160.00nm 5.7mb
pP 39 50.70 29km
ILT 37.21 23 iPc 39 51.20 -1.7
1.1s 34.00nm 5.1mb
Z 16s 0.90um 4.7MszX
N 16s 0.50um
E 16s 0.70um
i 39 57.00 19km
iS 45 34.00
ELT 41.40 311 iPc 40 27.80 -0.1
eS 46 45.00
e 50 28.00
CHTO 42.31 256 eP 40 34.40 -1.4
1 1s 46.23nm 5.1mb
NRI 43 01 335 iPc 40 39.20 -1.7
1.8s 59.00nm 5.0mb
e 40 49.00 33km
NST 43.29 251 eP 40 54.00 10.3X
SVW 44.52 38 eP 40 54.50 1.1
0.7s 30 65nm 5.3mb
IMA 45.77 31 ePc 41 03.32 0.0
0.8s 4 09nm 4.4mb
e 42 41.41 528kmX
RSO 45.92 39 eP 41 04.66 0.0
KDC 46.14 42 (P) 41 05.25 -0.9
0.8s 7.59nm 4.7mb
CP2 46.17 37 (P) 41 07.90 1.3
CRP 46.21 37 (P) 41 07.87 1.0
PMR 47.65 37 eP 41 16.38 -1.7
1.0s 21.93nm 5.1mb
GUN 48.02 276 P 41 20.80 -1.0
FBA 48.17 32 eP 41 21.79 -0.3
0.7s 12.41nm 5.0mb
PKI 48.54 276 P 41 24.60 -1.3
KKN 48.55 276 P 41 24.80 -1.0
DMN 48.77 276 P 41 26.40 -1.1
GKN 48.96 277 P 41 28.00 -0.8
KLU 49.19 37 eP 41 29.62 -0.5
IPM 50.13 239 ePc 41 36.40 -1.3
FRU 50.90 299 eP 41 43.00 -0.4
2.0s 80.00nm 5.3mb
Z 18s 2.50um 5.3Msz
E 16s 2.50um
BALM 50.96 37 eP 41 41.94 -1.7
INK 53.50 27 eP 42 04.00 1.6
0.8s 4.00nm 4.5mb
NDI 54.48 281 iPc 42 09.30 -0.8
0.8s 22.39nm 5.2mb
SVE 55.37 319 ePc 42 16.00 -0.3
1.0s 140.00nm 5.9mb
Z 16s 4.50um 5.6MszX
N 16s 1 00um
E 16s 3.00um
e 42 25.00 29km
e 43 11.00
MBC 55.76 17 eP 42 18.50 -0.3
1.0s 11.00nm 4.8mb
ARU 56.57 319 iPc 42 24.30 -0.6
1.2s 120.00nm 5.8mb
Z 16s 4.00um 5.6MszX
N 14s 1.00um
E 16s 3.00um
e 42 32.00 25km
e 42 37.00
eS 50 30.00
WB2 57.72 189 iPc 42 31.50 -2.0
0.8s 39.70nm 5.5mb

WRA 57.72 189 P 42 31.50 -1.8
0.7s 22.40nm 5.3mb
WRA 57.72 189 P 42 48.00 14.7X
1.0s 12.60nm
QIS 57.87 183 eP 42 37.70 3.3X
0.6s 3.00nm 4.5mb
HYB 59.14 269 ePc 42 42.00 -1.5
1.0s 70.00nm 5.7mb
e 42 51.00 29km
ASPA 61.44 189 iPd 42 57.50 -1.5
0.9s 23.80nm 5.3mb
i 43 07.80 34km
GBA 62.17 266 P 43 04.00 -0.1
MBL 62.21 204 eP 43 02.00 -2.1
0.6s 26.00nm 5.5mb
e 43 09.00 23km
POO 62.26 273 iPc 43 05.20 0 4
YKA 62.89 31 eP 43 06.80 -1.4
0.8s 2.60nm 4.4mb
DZM 63.43 155 iPc 43 17.40 5.1X
KOD 64.12 263 eP 43 14.20 -3.2X
MAIO 64.20 297 iPc 43 17.00 -0.4
ASH 64.21 299 eP 43 14.50 -2.8
SDF 64.88 337 eP 43 21.10 -0.1
KAT 65.04 301 eP 43 23.00 0.4
Z 14s 0.80um 5.1MszX
N 14s 1.00um
E 14s 1.00um
DAG 65.34 355 eP 43 23.10 -0.9
1.0s 24.00nm 5.3mb
MOS 67.37 324 iPd 43 37.00 -0 2
1.5s 150.00nm 5.9mb
Z 15s 2.60um 5.6MszX
i 43 46.00 29km
OBN 68 22 323 iPd 43 42.50 0 0
1.1s 58.00nm 5.6mb
Z 14s 2.50um 5.6MszX
N 16s 1 20um
E 16s 1.20um
i 43 50.50 26km
i 43 56.00
i 44 07.80
(S) 52 44 00
KAF 68.26 333 iP 43 41.60 -1 1
0.8s 12.60nm 5.1mb
STK 69.09 181 P 43 42.70 -5.3X
STK 69.09 181 eP 43 47.10 -0.9
0.5s 1.20nm 4.3mb X
i 43 56.40 30km
NEW 69.11 45 eP 43 49.03 0.8
1.0s 10.80nm 4.9mb
LGPM 69.65 54 eP 43 50.45 -1.4
GRO 69.78 309 eP 43 51.00 -1.3
Z 15s 3.00um 5.7MszX
N 20s 1.50um
E 14s 2.50um
NUR 69.92 332 iP 43 52.20 -0.6
0.3s 6.70nm 5.2mb
PYA 70.99 311 eP 43 59.00 -0.8
1.0s 100.00nm 5.9mb
Z 16s 2.00um 5.5MszX
MTA 71.23 308 iP 44 00.80 -0.3
Z 16s 0.60um 4.9MszX
N 16s 0.50um
E 16s 1.00um
i 44 09.80 29km
ORV 71.24 54 (P) 44 00.05 -1 3
KIV 71.25 311 iPc 44 01.60 0 1
1.5s 302.00nm 6.2mb
Z 17s 1.00um 5.1MszX
e 44 10.20 28km
e 53 38.90
GRS 71.47 306 iPc 44 02.40 -0.5
1.5s 90.00nm 5.6mb
Z 20s 1.02um 5.1Msz
N 18s 0.87um
E 18s 0.87um
BWA 71.83 175 eP 44 04.70 0.0
i 44 13.90 30km
ERE 72.26 307 iP+ 44 08.00 0.5
1.3s 14.00nm 4.8mb
CMB 72.81 55 eP 44 11.71 0.9
1.4s 26.00nm 5.1mb
UPP 72.88 334 iP 44 10.20 -0.4
FCC 73.12 27 eP 44 18.00 6.0X
LRM 73.13 45 eP 44 13.00 0.3
SOC 73.23 312 iPc+ 44 13.00 0.0

17d 04h

1.2s 50.00nm 5.4mb
KVN 73.71 53 (P) 44 16.98 0.9
ANN 73.85 314 eP 44 16.00 -0.5
1.4s 70.00nm 5.5mb
e 44 25.00 29km
HFS 73.98 336 eP 44 16.80 -0.3
0.4s 2.40nm 4.6mb
NB2 74.05 338 P 44 17.20 -0.3
1.0s 38.60nm 5.4mb
BONR 74.21 54 (P) 44 17.85 -1.3
TNP 74.83 54 (P) 44 23.57 0.9
1.3s 34.09nm 5.2mb
HVU 75.37 48 (P) 44 25.40 -0.3
FRB 76.05 14 ePc 44 28.50 -0.3
1.0s 18.00nm 5.0mb
DUG 76.31 50 eP 44 31.12 0.1
0.8s 6.50nm 4.7mb
BW06 76.63 46 (P) 44 30.95 -1.9
0.9s 5.27nm 4.6mb
GSC 76.74 56 (P) 44 34.38 1.0
KIS 77.05 320 iPc+ 44 34.00 -0.7
1.0s 129.00nm 5.9mb
Z 15s 3.70um 5.8MszX
N 15s 2.20um
E 14s 2.00um
e 44 42.00 26km
DAU 77.12 49 (P) 44 36.27 0.6
BSD 77.42 332 iPc 44 36.70 0.1
1.1s 32 00nm 5.3mb
i 44 45.70 29km
MSU 77.74 51 eP 44 40.34 1.3
EMUT 77.76 49 eP 44 40.16 1.1
COP 77.87 334 iPd 44 38.00 -1.0
0.8s 32.84nm 5.4mb
KAS 78.06 313 iPc 44 41.30 0.8
SRU 78.37 49 eP 44 42.20 -0.2
ULM 78.56 34 eP 44 48.50 5.6X
RSSD 78.82 42 (P) 44 44.91 0.1
0.7s 5.43nm 4.7mb
VRI 78.92 320 iPc 44 49.50 4.5X
OJC 79.11 327 iPc 44 46.80 0.8
i 44 55.30 27km
UZH 79.14 324 ePd 44 47.50 1.4
1.2s 43.00nm 5.3mb
Z 15s 3.50um 5.8MszX
N 15s 1.70um
E 15s 3.70um
e 45 03.00 55kmX
CVO 79.23 320 ePc 44 47.50 0.7
PV09 79.60 49 eP 44 50.38 1.1
SPC 79.67 326 eP 44 50.20 0.9
PV10 79.73 49 ePd 44 51.14 1.2
PV08 79.84 49 eP 44 51.49 0.9
KSP 80.14 329 iPc 44 51.80 0.3
1.2s 43.00nm 5.3mb
i 45 00.00 26km
CMP 80.19 321 ePc 44 55.00 3.1X
BRG 81.06 330 iP 44 56.80 0.4
1 6s 27.00nm 5.0mb
i 45 05.70 28km
GLD 81.08 46 (P) 44 58.98 2.0
1.3s 14.04nm 4.8mb
CLL 81.09 331 iP 44 56.80 0.3
1.4s 42.00nm 5.3mb
i 45 05.70 28km
CTT 81.23 316 eP 44 56.10 -1.4
KAC 81.51 343 ePc 44 59.50 0.9
1.3s 44.00nm 5.3mb
PRU 81.51 329 iPc 44 59.10 0.4
1.2s 29.20nm 5.2mb
Z 18s 1.00um 5.2Msz
N 18s 0.70um
E 18s 0.60um
e 45 08.00 28km
SRO 81.55 326 eP 45 01.00 2.0
KPL 81.74 343 eP 45 00.70 1.0
1.2s 28.00nm 5.2mb
KSB 81.80 343 eP 45 00.40 0.3
HRI 82.03 306 eP 45 02.30 0.4
MOX 82.16 331 eP 45 02.60 0.5
1.9s 56.00nm 5.3mb
Z 18s 0.80um 5.1Msz
UZD 82.34 325 eP 45 03.50 0.4
SOP 82.43 327 eP 45 05.00 1.4
CSS 82.46 309 eP 45 04.00 0.0
TUC 82.52 55 (P) 45 03.36 -1.1
1.0s 5.67nm 4.6mb

KHC 82.57 329 Pc 45 05.50 1.2
1.1s 16.50nm 5.0mb
Z 20s 1.60um 5.4Msz
N 20s 1.00um
E 18s 0.80um
e 45 15.00 30km
e 45 29.50
e 48 13.50
AFIF 82.65 295 iPc 45 06.67 1.5
ALN 82.71 317 eP 45 05.64 0.5
GEC2 82.75 329 P 45 05.50 0.2
1.0s 7.99nm 4.7mb
WTS 82.82 334 eP 45 06.00 0.6
WET 82.85 329 iPd 45 07.00 1.3
1.3s 29.00nm 5.2mb
EKA 82.94 341 P 45 07.00 0.9
1.3s 32.10nm 5.3mb
GRF 83.07 331 iPc 45 08.00 1.1
1.3s 58.00nm 5.5mb
Z 18s 0.90um 5.2Msz
e(pP)d45 17.80 31km
JVI 83.14 305 eP 45 08.20 0.6
EZN 83.30 316 eP 45 08.00 -0.2
SRS 83.87 318 eP 45 11.44 0.3
BHG 83.97 329 eP 45 12.00 0.5
1.4s 72.00nm 5.7mb
ENN 84.15 334 eP 45 12.00 -0.3
1.0s 10.00nm 5.0mb
KNT 84.20 319 eP 45 12.98 0.2
SOH 84 21 318 eP 45 13.12 0.2
OUR 84.22 318 iP 45 12.93 0.1
VAY 84.26 319 iP 45 13.70 0.7
1.2s 81.00nm 5.8mb
SKO 84.37 320 iP 45 14.80 1.2
1.2s 99.00nm 5.9mb
i 45 24.10 29km
PLE 84.39 322 iPc 45 14.57 0.7
IVA 84.48 322 iPc 45 14.99 0.7
GRG 84.61 319 eP 45 14.72 -0.2
PVY 84.65 321 iPc 45 15.37 0.2
AYN 84.68 302 eP 45 16.00 0.7
PAIG 84 67 317 eP 45 15.12 0.0
WATA 84.81 329 iPc 45 16.50 0.6
MBH 84.84 304 eP 45 16.30 0.0
SNF 84.93 335 P 45 16.40 0.2
NKY 84.97 322 iPc 45 16.46 -0.3
HOL 85.05 303 eP 45 17.67 0.5
BRY 85.13 322 iPc 45 16.86 -0.7
TTG 85.13 322 iPc 45 17.45 0.1
DOU 85.17 334 P 45 18.60 1.2
LIT 85.18 318 eP 45 17.48 -0.3
OHR 85.33 320 iP 45 18.50 0.0
1.0s 83.00nm 5.9mb
BDV 85.45 322 iPc 45 18.52 -0.5
ULC 85.48 321 eP 45 19.16 0.0
HCY 85.49 322 iPc 45 18.63 -0.5
BADA 85.57 303 eP 45 20.00 0.2
CDF 85.62 332 eP 45 20.00 0.1
1.3s 43.30nm 5.5mb
BSF 86.28 332 eP 45 23.10 -0.1
1.4s 30.05nm 5.3mb
HAU 86.30 332 eP 45 23.10 -0.1
1.1s 12.70nm 5.1mb
Z 20s 0.55um 5.0Msz
ABHA 86.55 290 eP 45 26.33 1.2
ACO 86.64 45 iPc 45 26.20 1.2
SFI 87.42 327 P 45 29.40 0.8
PGD 87.52 327 P 45 30.10 0.8
ASS 87.74 326 P 45 30.20 -0.1
LOR 87.83 333 iPc 45 30.70 0.1
1.2s 35.70nm 5.5mb
Z 22s 0.50um 4.9Msz
FLN 88.00 337 iPc 45 31.50 0.2
1.6s 107.60nm 5.9mb
Z 22s 0.93um 5.2Msz
LBF 88.03 333 iPc 45 31.70 0.1
1.2s 19.95nm 5.3mb
LDF 88.03 336 eP 45 31.70 0.2
SSF 88.13 333 iPc 45 32.20 0.2
1.0s 17.20nm 5.3mb
LPL 88.23 331 iPc 45 33.20 0.4
1.2s 8.95nm 5.0mb
EEO 88.24 27 eP 45 35.50 3.0X
LPG 88.24 331 eP 45 33.40 0.5
1.2s 10.70nm 5.0mb
MEO 88.33 46 iPc 45 33.50 0.3
SMF 88.37 333 eP 45 33.50 0.3

1.6s 47.90nm 5.6mb
AVF 88.42 333 iPc 45 33.70 0.3
1.2s 39.85nm 5.6mb
GRR 88.45 337 iPc 45 34.00 0.5
1.2s 71.10nm 5.9mb
LPF 88.82 337 iPc 45 35.90 0.6
1.1s 42.25nm 5.7mb
LTX 89.07 53 eP 45 35.79 -1.1
MAF 89.19 333 iPc 45 37.70 0.6
1.3s 27.10nm 5.4mb
TCF 89.26 334 eP 45 38.10 0.7
LSF 89.53 334 eP 45 39.10 0.4
MFF 89.79 335 iPc 45 40.60 0.7
1.0s 25.00nm 5.4mb
SOI 90.03 321 P 45 41.10 0.0
LMR 90.14 330 eP 45 41.30 -0.2
1.4s 27.90nm 5.3mb
GAC 90.32 26 eP 45 43.50 1.2
FVM 90.34 39 (P) 45 41.67 -0.9
0.9s 4.77nm 4.8mb
RJF 90.35 334 iPc 45 43.10 0.6
1.1s 16.85nm 5.2mb
Z 21s 0.35um 4.8Msz
CAF 90.48 333 iPc 45 44.10 0.9
1.2s 18.15nm 5.2mb
LFF 90.94 334 eP 45 46.00 0.8
LPO 91.01 334 iPc 45 46.30 0.8
1.0s 13.20nm 5.2mb
LMN 93.39 19 eP 46 01.00 4.5X
ZOBO 145.62 60 PKP 52 20.60 -0.6
1.2s 23.65nm
LPB 145.82 61 PKP 52 22.30 1.0
CNCB 146.10 61 PKP 52 20.60 -1.3
CCH 147.76 59 PKP 52 27.80 3.5X
SIV 150.04 51 PKP 52 27.20 -0.3
YJA 151.37 66 ePKPc 52 35.00 5.1X
FSA 153.26 73 e(PKP)52 33.00 1.1
S.D. = 0.9 on 211 of 233 obs.

MAY 17, 1993 04h 53m 50.51± 0.58s
33.218 S ± 5.6km 70.131 W ± 4.7km
DEPTH = 10.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)
MD 3.6 (SAN).

FCH 0.17 231 iPd 53 54.82 0.2
iS 53 58.45
PEL 0.47 279 iPd 54 00.52 0.4
iS 54 08.15
SAN 0.50 242 iPd 54 00.93 0.2
iS 54 09.17
PCH 0.51 218 iP 54 00.62 -0.3
iS 54 09.22
JACH 0.66 324 iP 54 03.60 -0.2
iS 54 13.58
ROCH 0.78 288 iP+ 54 06.06 0.2
iS 54 18.16
TACH 0.80 237 iP 54 05.88 -0.2
iS 54 17.72
CHCH 0.84 211 iP 54 06.02 -0.7
iS 54 18.90
MDZ 1.13 73 i(P) 54 09.90 -1.8
LCCH 1.23 258 iP 54 13.45 0.1
iS 54 30.99
LNV 1.30 235 iP 54 13.77 -0.7
iS 54 32.49
RFA 2.08 139 ePc 54 27.70 1.8
S 54 55.50
CYA 6.05 39 ePd 55 23.00 0.9
S.D. = 0.9 on 13 of 13 obs.

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* MAY 17, 1993 04h 54m 55.45± 0.74s
31.339 S ± 8.3km 68.842 W ± 8.9km
DEPTH = 10.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)
MD 4.3 (SAN).

RTCB 0.15 166 e(P) 55 00.00 0.9
CFA 0.58 118 e(P) 55 02.00 -5.2X
S 55 11.20
RTBS 0.61 238 iPd 55 15.00 7.2X
RTRS 1.28 335 iPd 55 20.60 1.4
MDZ 1.54 180 iP 55 26.40 3.4X
iS 55 45.80
JACH 2.00 228 iP 55 31.30 1.5
iS 55 57.09
RTPR 2.26 63 iPd 55 34.20 0.9

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17d 06h

MRRJ		39.67	277	eP	13	42.30	-0.8			0.5s	67.40nm		5.9mb				i	17	31.00				
TUC		41.13	103	ePc	13	54.84	-0.5	TRO		55.69	0	eP	15	47.30	-0.3		eS	26	22.00				
		1.5s		66.53nm			5.1mb	HRV		55.85	63	eP	15	47.18	-1.9		ePPS	27	08.00				
	Z	20s		1.70um			4.9Msz			1.3s		42.15nm			5.3mb	COP		69.53	5	iPc	17	19.80	0.1
				epP	14	05.26	36kmX		Z	20s		2.06um			5.2Msz			0.6s		69.33nm			5.9mb
ALQ		41.66	96	iPc	13	59.15	-0.7	CBN		55.86	71	eP	15	46.00	-3.2X		e	17	31.70				
		1.1s		20.61nm			4.8mb	GOGA		55.96	79	eP	15	46.22	-3.8X	DLF		69.89	17	eP	17	22.20	0.3
				e	15	56.08				0.8s		14.05nm			5.0mb	BSD		70.19	3	iPc	17	24.00	0.3
FRB		43.51	40	ePc	14	13.80	-0.5		Z	20s		4.33um			5.5Msz			0.5s		22.00nm			5.5mb
		0.6s		74.00nm			5.6mb	AKU		56.23	18	iPc	15	51.40	-0.1	MNK		71.30	355	eP	17	27.00	-3.5X
NIIJ		44.30	273	P	14	21.20	0.2			0.9s		70.59nm			5.7mb	WIT		72.01	8	eP	17	36.00	1.3
KAKJ		44.34	271	P	14	20.30	-1.1	MRX		56.30	104	(P)	15	51.00	-1.6					e	17	48.00	
BOD		44.50	310	iPc	14	21.70	-0.7	CEH		56.59	74	ePc	15	51.59	-3.0	FRU		72.05	321	iPc	17	35.00	-0.2
		0.5s		45.00nm			5.6mb			0.8s		20.20nm			5.2mb			2.5s		550.00nm			6.1mb
ACO		44.64	88	iPc	14	23.00	-0.8		Z	18s		3.02um			5.4Msz		Z	18s		7.20um			6.0Msz
CHJJ		45.13	271	P	14	27.50	-0.3	LMN		56.79	56	ePc	15	56.50	0.6					i	17	49.00	
MAT		45.24	272	iPc	14	28.50	-0.1	LOF		57.11	3	eP	15	58.14	0.3					e	27	40.00	
		0.7s		36.99nm			5.4mb	UER		57.32	314	iPc	15	59.00	-0.5	BRNL		72.82	4	eP	17	38.00	-1.5
	Z	20s		1.06um			4.8Msz			1.5s		50.00nm			5.3mb					id	17	53.00	
				eS	21	03.00			Z	18s		2.50um			5.4Msz	BRN		72.82	4	eP	17	40.50	1.0
MTMJ		45.44	273	P	14	28.90	-1.4		N	18s		3.31um				WTS		72.83	8	iPc	17	34.90	-4.7X
IIDJ		46.16	272	P	14	36.50	0.6		E	18s		2.06um						0.6s		63.40nm			5.8mb
JAO		46.23	55	ePc	14	34.50	-1.7					eS	24	19.00						e	17	52.00	
DAG		46.24	12	iPd	14	35.70	-0.3	CRX		57.39	103	(P)	16	02.00	1.3	BNS		73.89	8	iPc	17	45.90	0.1
		0.7s		89.04nm			5.8mb	UNM		57.72	103	(P)	15	58.50	-4.5X	CLL		73.92	5	iPc	17	45.70	-0.2
KBS		46.27	2	iPc	14	36.70	0.5	SDF		57.82	357	iP	16	01.80	-1 0			1.5s		88.00nm			5.5mb
MEO		46.31	90	iPd	14	35.60	-1.5	SSE		58.92	281	Pd+	16	10.50	-0.4					pP	17	58.00	42kmX
NRI		46.51	333	iPc+	14	37.40	-0.7			0.8s		70.00nm			5.8mb	ENN		73.97	9	iPc	17	46.10	-0.1
		2.0s		228.00nm			5.8mb		Z	20s		0.90um			4.9Msz			1.0s		60.00nm			5.5mb
				i	14	50.00						i	16	13.00						e	18	00.00	
				i	16	12.00						sP	16	20.00		SNF		74.06	10	iPc	17	46.88	0.1
				iPPP	17	09.00						S	24	12.00		BRG		74.40	4	iPc	17	48.60	-0.1
				eS	21	38.00						sS	24	24.00				1.4s		85.00nm			5.6mb
				eSSS	25	55.00						PS	24	34.00						i	17	54.80	
TSRJ		47.23	273	P	14	43.60	-0.7	ELT		59.07	320	iPc	16	11.00	-0.7	KSP		74.50	2	iPc	17	49.00	-0.3
LTX		47.39	99	eP	14	43.19	-2.6			1.0s		172.00nm			6.1mb			0.8s		30.00nm			5.3mb
CIT		48.33	304	eP	14	52.00	-0.8					eS	24	14.00						i	18	03.40	
	Z	18s		5.54um			5.6Msz					e	28	05.00		DOU		74.51	10	Pc	17	49.60	0 2
	N	18s		1.81um				KAF		63.14	357	iP	16	37.90	-1.2					e	18	18.50	
	E	18s		7.37um						0.4s		45.20nm			5.9mb	MOX		74.51	6	iPc+	17	49.70	0 3
WKYJ		48.39	272	P	14	53.70	0.2	NB2		64.12	5	P	16	44.60	-1.0			1.5s	137	.00nm			5.7mb
SLM		48.40	79	P	15	00.00	6.6X			0.7s		54.90nm			5.8mb		Z	21s		0.50um			4.8Msz
	Z	21s		2.97um			5.2Msz	NAO		64.31	5	P	16	44.22	-2.6					eS	27	46.00	
FVM		48 74	80	eP	14	53.47	-2.6	ARU		64.60	337	iPc	16	47.50	-1.2	TNS		74.73	8	ePc	17	50.70	0.0
	Z	19s		11.77um			5.9Msz			1.6s		200.00nm			6.0mb	HOF		74.86	5	iPc	17	51.30	-0.2
YONJ		48.92	275	P	14	57.50	0.0		Z	16s		1.60um			5.3MszX			0.7s		23.00nm			5.3mb
EEO		49.11	64	eP	14	59.50	0.7		N	18s		1.00um				WLF		75.09	9	iPc	17	53.07	0 4
TKSJ		49.45	273	P	15	02.00	0.4		E	16s		1.00um								id	18	06.63	
OLY		49.89	83	P	15	17.03	12.1X					i	17	00 00		OJC		75.17	0	iPd	17	53.10	-0.1
ACTO		50.62	68	P	15	08.94	-1.4					e	17	16.00				0.8s		59.00nm			5.6mb
SHNJ		51.04	276	P	15	13.50	-0.1					eS	25	41.00						i	18	05.30	
TYNO		51.07	68	P	15	12.08	-1.7	NUR		64.80	357	iP	16	48.80	-1.1	FLN		75.21	14	iPc	17	53.20	-0.2
WLVO		51.29	66	P	15	13.95	-1.5			0.5s		67.80nm			6.0mb			0.8s		36.15nm			5.4mb
STCO		51.37	68	P	15	13.34	-2.7	HFS		65.13	3	eP	16	50.60	-1.4		Z	21s		1.60um			5.3Msz
GAC		51.59	63	ePc	15	16.50	-1.2			0.5s		55.80nm			5.9mb	PRU		75.30	4	iPc	17	54.00	0.0
KUMJ		52.35	275	P	15	23.70	0.1		Z	18s		761.00um			7.9MszX			0.6s		40.10nm			5.6mb
IRK		52.43	310	ePc	15	22.00	-2.0					LR	40	23.00						PcP	18	07.20	
		1.9s		82.00nm			5.4mb	KONO		65.42	6	iPd	16	53.80	-0.1	LDF		75.43	14	iPc	17	54.50	-0.2
	Z	18s		2.20um			5.2Msz	UPP		65.50	1	iP	16	53.40	-0.9			0.8s		29.55nm			5.3mb
	N	18s		1.74um				EDR		66.97	13	iPc	17	03.40	-0.5	GRF		75.44	6	iPc	17	55.40	0.6
	E	19s		1.76um				ELO		67.25	14	iPc	17	05.00	-0 6			0.8s		53.00nm			5.6mb
				e	15	33.00				1.4s		22.00nm			5.1mb		Z	21s		0.60um			4.9Msz
				e	15	50.30		EDU		67.27	14	iPc	17	05.30	-0.4					e	17	56.50	
				e	16	27.70		EAB		67.43	14	iPc	17	06.50	-0.3					e(pP)	18	07.00	39kmX
				e	17	45.50				1.4s		56.00nm			5.5mb	LVV		75.52	357	iP	17	56.00	0.8
KAGJ		53.31	273	P	15	30.70	0.0	EBH		67.49	14	iPc	17	06.90	-0.3	GRR		75.52	14	iPc	17	55.30	0.1
MCWV		53.47	71	P	15	40.00	8.2X	EAU		67.89	14	iPc	17	09.60	-0.1			0 6s		34.80nm			5.5mb
	Z	18s		3.05um			5.4Msz			1.3s		70.00nm			5.6mb	LPF		75.85	14	iPc	17	57.40	0.3
ZAK		54.21	308	iPc	15	36.00	-1.0	ESY		67.93	13	iPc	17	09.30	-0.6			0.5s		31.05nm			5.6mb
		2.0s		87.00nm			5.4mb	EBL		68.02	14	iPc	17	10.20	-0.2	LANF		75.91	8	P	17	57.54	0.1
	Z	18s		3.91um			5.5Msz	EKA		68.43	14	Pd	17	13.30	0.3	WET		76.08	5	iPc	17	58.90	0.5
	N	18s		3.00um						0.7s		46.70nm			5.7mb	KHC		76.12	4	P	17	59.90	1.2
				e	16	41.00		MUD		68.57	6	iPc	17	12.70	-1.1			1.1s		36.50nm			5.3mb
				eS	23	12.00				0.7s		24.00nm			5.4mb		Z	18s		1.00um			5.2Msz
MOY		54.31	311	eP	15	37.70	-0.1					i	17	26.50			N	18s		0.60um			
CBM		54.42	57	eP	15	35.33	-3.4X	MOS		68.70	349	iPc	17	14.00	-0.6		E	18s		0.50um			
		1.1s		38.78nm			5.3mb			2.0s		370.00nm			6.1mb					e	18	11.60	
	Z	19s		2.32um			5.3Msz		Z	22s		2.80um			5.5Msz	SPC		76.20	360	iP	18	00.50	1.2
BJI		55.14	292	eP	15	42.00	-2.1					i	17	26.00		GEC2		76.41	4	(P)	17	56.29	-4.1X
		7.0s		0.52nm			2.7mb X					e	17	46.00				0.6s		19.00nm			5.3mb
	Z	20s		2.70um			5.3Msz	DMU		69.25	17	iPc	17	17 60	-0.4	GEC2		76.41	4	e(P)	18	08.40	8.0X
	E	16s		1.55um				OBN		69.44	350	iPc	17	18.10	-1.0			0.8s		4.40nm			4.5mb
				esP	15	56.00				1.6s		200.00nm			5.9mb	GEC2		76.41	4	P	18	00.40	0.0
				ePP	17	44.00			Z	20s		1.60um			5.3Msz			0.7s		19.32nm			5.2mb
				eS	23	22.00			N	20s		1.30um								e	18	06.20	
				eSS	27	14.00			E	20s		1.60um				CDF		76.43	9	P	18	00.39	-0.1
KEV		55.47	357	iP	15	44.00	-2.0					i	17	25.00		WLS		76.43	9	P	18	00.59	0.1

17d 06h

VITF	76.50	10	P	18	01.08	0.3					eS	28	18.00			GRBF	81.29	14	P	18	27.25	0.3
ECH	76.61	9	P	18	01.62	0.2						28	29.00			MTHF	81.33	13	P	18	27.62	0.6
LIBD	76.72	8	P	18	02.13	0.2	ANN	79.43	348	eP	18	16.00	-0.8			FIR	81.34	6	eP	18	28.00	1.0
UZH	76.74	358	iPc+	18	02.50	0.5		1.9s		150.00nm			5.7mb			MTA	81.39	341	iPc	18	27.60	0.3
			i	18	15.00			Z 22s		1.20um			5.2Msz				0.8s		160.00nm			6.1mb
			ePS	28	52.00			N 22s		3.00um									i	18	41.60	
HAU	76.75	9	iPc	18	02.40	0.2		E 22s		1.80um									eS	28	39.00	
	0.6s		34.80nm			5.6mb				e	18	28.00				LMR	81.39	10	iPc	18	28.10	0.8
	Z 23s		0.75um			4.9MszX	PTJ	79.44	3	iPc	18	17.20	0.2				1.0s		22.20nm			5.1mb
BSF	76.96	9	P	18	03.31	-0.2	LPO	79.44	14	iPc	18	17.30	0.4			CRE	81.53	6	P	18	28.92	0.8
FUR	76.97	6	iPc	18	03.90	0.5		1.1s		63.25nm			5.5mb			BAK	81.62	337	iPc	18	28.00	-0.5
	0.7s		76.00nm			5.8mb	ZAG	79.52	3	eP	18	18.00	0.7						iS	28	28.00	
MOF	76.97	9	P	18	03.38	-0.1	STS	79.53	21	eP	18	17.45	0.0			SHE	81.65	338	iPc	18	30.00	1.3
FEL	77.02	8	P	18	03.61	-0.2	CEY	79.55	4	eP	18	17.40	-0.1				1.0s		110.00nm			5.8mb
ZST	77 17	2	iPc	18	04.90	0.5	TRI	79.55	4	eP	18	17.00	-0 5						iS	28	38.00	
	0.7s		57.80nm			5.7mb	KIV	79.56	344	iP	18	18.30	0.5			EGRA	81.66	15	iPc	18	29.77	1.1
			e	18	17.40			2.0s		369.00nm			6.0mb			ARV	81.71	5	P	18	30.12	1.1
LOR	77.22	11	iPc	18	04.90	0.1		Z 20s		1.30um			5.3Msz				0.9s		72.50nm			5.7mb
	0.8s		31.95nm			5.4mb				e	18	31.20				ASH	81.77	330	P	18	31.00	1.7
	Z 24s		0.85um			5.0MszX				(S)	28	16.00					1.5s		310.00nm			6.1mb
MFF	77.37	14	iPc	18	06.10	0.5				e	29	10.30				ETER	82.00	13	eP	18	31.22	0.7
	0.9s		103.85nm			5.9mb	MAK	79.61	340	iP+	18	18.00	0.2			ASS	82.13	5	P	18	31.60	0.4
BBS	77.39	9	P	18	05.87	0.1				e	21	27.00				BDT	82.18	289	eP	18	24.00	-7.7X
LOMF	77.44	9	P	18	06.17	0.1				(PS)	29	24.00					0.8s		8.00nm			4.8mb
BHG	77.50	5	iPc	18	07.00	0.7	GRO	79.63	341	iP+	18	18.00	0.1			TOV	82.21	84	eP	18	31.80	-0.3
	0.8s		60.00nm			5.7mb		1.5s		240.00nm			6.0mb			PGF	82.40	8	P	18	33.37	0.7
LBF	77.52	11	iPc	18	06.30	-0.2		Z 20s		1.50um			5.3Msz			SDV	82.45	85	eP	18	32.20	-1.3
	0.5s		17.65nm			5.3mb		N 20s		3.50um						GUD	82.54	18	iPc	18	33.87	0.3
AVF	77.64	12	iPc	18	07.20	0.2		E 20s		1.00um						ETOR	82.73	17	iPc	18	34.74	0.3
	0.5s		21.20nm			5.4mb				i	18	29.50				EPLA	82.74	20	iPc	18	35.23	0.8
SOP	77.67	2	eP	18	08 00	0.8	RSP	79.66	9	P	18	18.95	0.7			MNS	82.81	5	P	18	34.90	0.1
BMR	77.68	358	ePd	18	09.00	1.8	TNR	79.68	357	ePc	18	15.00	-3.2X			NST	82.84	287	eP	18	35.00	-0.2
MOTA	77.77	6	iPc	18	08.30	0.3	BZS	79.77	359	iPd	18	18.00	-0.7			AQU	82.88	5	P	18	36.24	1.1
	1.4s		147.00nm			5.8mb	MLR	79.77	356	ePc	18	19.50	0.6			ERE	82.91	341	iP+	18	37.00	1.6
			i	18	20.50		VBY	79.81	3	ePc	18	19.00	0.1			MAIO	82.96	329	iPc	18	36.70	1.0
BGF	77.81	12	iPc	18	08.10	0.1	RRL	79.85	9	P	18	20.87	1.4				0.9s		21.31nm			5.2mb
	1.0s		55.60nm			5.5mb	RIY	79.94	4	iPc	18	19.50	-0.1						eS	29	40.00	
SMF	77 83	11	iPc	18	08.30	0.1	CFR	79.97	354	eP	18	19.00	-0.7			EROO	83.12	15	eP	18	37.13	0.8
	1.0s		39.00nm			5.4mb	BHB	79.97	9	P	18	19.82	0.0			GRS	83.22	340	iPc	18	38.00	0.9
WTTA	77 89	6	iPc	18	09.30	0.6	GZR	79.97	358	iPd	18	20.00	0.1				1.7s		130.00nm			5.8mb
	1.6s		225.00nm			5.9mb	GUN	80.08	305	P	18	21.00	-0.1				Z 21s		1.76um			5.4Msz
			i	18	23.30		ISR	80.10	355	eP	18	21.50	0.9				N 24s		2.00um			
SOTA	77.91	6	iPc	18	09.40	0.7	BOB	80.23	8	P	18	22.20	0.9				E 24s		2.00um			
	1.3s		173.00nm			5.9mb	ERUA	80.28	20	iPc	18	22.07	0.5			KAS	83.30	350	eP	18	35.00	-2.3
			i	18	23.30		PZZ	80.29	9	P	18	22.29	0.6			NDI	83.33	312	iPc	18	37.80	0.2
LSF	77.94	13	iPc	18	09.00	0.2	DOI	80.30	9	P	18	21.50	-0.2				0.7s		30.82nm			5.5mb
	0.8s		77.90nm			5.8mb	PCP	80.38	8	P	18	22.02	0.0			SDA	83.34	0	eP	18	37.70	0.3
TCF	77.99	12	iPc	18	09.20	0.1	SOC	80.38	346	iPc+	18	22.00	0.0			DMK	83.34	354	iP	18	38.00	0.5
	1.0s		43.80nm			5.4mb		2.5s		200.00nm			5.7mb			SKO	83.41	359	iPc	18	38.80	1.0
KIS	78.10	354	iPc+	18	08.00	-1.5		Z 20s		2.00um			5.5Msz				1.6s		271.00nm			6.1mb
	1.5s		400.00nm			6.2mb		N 22s		0 60um									i	18	52.20	
			i	18	22.00			E 20s		0 50um						SDI	83.54	5	P	18	38.70	0.1
			eS	28	16.00		KKN	80.46	305	P	18	22.60	-0.4			PHP	83.71	360	iPc	18	35.80	-3.5X
			e	28	45.00		CKI	80.47	8	Pc	18	22.50	0.0			LACI	83.76	0	iPc	18	39.60	0.1
MAF	78.10	12	iPc	18	10.00	0.3	SSR	80.52	359	ePd	18	23.00	0.3			RFI	83.96	5	P	18	42.15	1.6
	0.8s		29.55nm			5.4mb	LOE	80.55	287	iPc	18	22.70	-0.6				1.6s		174.50nm			6.0mb
KBA	78.16	5	iPc	18	11.00	0.8	ROB	80.57	9	P	18	22.66	-0.4			CTT	83.97	354	eP	18	40.10	-0.6
	0.6s		33.00nm			5.5mb	GKN	80.58	306	P	18	23.60	0.1			TIR	84.04	0	eP	18	41.50	0.5
			i	18	25.10		PKI	80.59	305	P	18	23.40	-0.4			VAY	84.05	358	iP	18	42.00	1.0
OGA	78.25	6	iPc	18	11.40	0.7	ENR	80.59	9	P	18	22.43	-0.8						i	18	55.60	
	0.8s		18.00nm			5.1mb	FIN	80.68	9	P	18	23.48	-0.1			ECHE	84.11	16	iPd	18	42.26	0.8
FVI	78.62	5	Pc	18	12.40	0.0	DMN	80.70	305	P	18	24.20	-0.1			KNT	84.20	358	eP	18	42.72	0.9
UZD	78.79	1	eP	18	13.90	0.5	TOUF	80.79	9	P	18	24.93	0.5			HRT	84.21	353	iP	18	41.10	-0.8
RBL	78.81	5	Pc	18	13.40	-0.2	AUTN	80.82	9	P	18	25.08	0.4			SRS	84.22	357	eP	18	42.36	0.4
RJF	78.87	13	iPc	18	13.80	-0.1	SAOF	80.84	9	P	18	24.78	0.3			OHR	84.28	359	iP	18	42.60	0.3
	0.9s		33.75nm			5.3mb	ECRI	80.91	17	eP	18	25.51	0.6				1.0s		129.00nm			6.1mb
	Z 25s		2 40um			5.4MszX	AURF	80.92	9	P	18	25.45	0.5						i	18	56.60	
PPE	78.97	355	ePd	18	15.50	1.1	CHTO	80.93	290	iPc	18	24.80	-0.5			ALN	84.35	355	eP	18	43.04	0.5
RSL	79.07	9	P	18	15.66	0.5		1.0s		34.25nm			5.3mb			GRG	84.41	358	eP	18	43.96	1.0
CTI	79.10	6	P	18	15.10	-0.1	EPF	80.94	14	iPc	18	24.90	-0.2			KHT	84.42	288	eP	18	43.00	-0.2
LFF	79.13	14	iPc	18	15.80	0.6		0.7s		10.80nm			5.0mb			EYL	84.43	352	eP	18	42.30	-0.8
	0.7s		42.35nm			5.5mb	IMI	80.95	9	P	18	24.99	-0.1			ESEL	84.50	13	iPc	18	43.44	0.1
VOY	79.23	4	ePc	18	15.30	-0.6	SBF	80.96	9	P	18	25.52	0.4			SOH	84.53	357	eP	18	43.80	0.3
			e	18	27.20		CDR	80.98	10	ePc	18	25.80	0.6			FNA	84.60	359	eP	18	43.96	0.1
LJU	79.25	4	eP	18	15.50	-0.4	BDI	81.01	7	P	18	26.50	1.1			TAB	84.60	339	iP+	18	45.00	0.9
LPL	79.25	9	iPc	18	17.30	1.1	LESF	81.07	14	P	18	26.21	0.5			EVIA	84.78	17	iPc	18	44.81	-0.1
	0.8s		19.50nm			5.2mb	KAT	81.18	332	iP+	18	28.00	1.8			BNT	84.79	354	eP	18	44.00	-0.8
ORO	79.26	9	P	18	17.10	1.0				i	18	43.00				KCT	84.87	354	iP	18	44.10	-1.1
LPG	79.27	9	iPc	18	17.50	1.1				e	28	40.00				OUR	84.99	357	iP	18	45.92	0.2
	0.7s		11.00nm			5.0mb	FRF	81.18	10	iPc	18	26.60	0.4			EVAL	85.00	21	iPd	18	46.42	0.5
CAF	79.32	13	iPc	18	16.70	0.4		0.8s		19.50nm			5.2mb			EBAN	85.01	19	iPc	18	46.36	0.4
	1.2s		46.40nm			5.4mb	SFI	81.23	6	P	18	27.90	1.5			LCI	85.04	2	P	18	47.56	1.6
LSD	79.35	9	P	18	17.85	1.1	LRG	81.26	10	iPc	18	27.50	0.9				0.6s		72.50nm			6.1mb
VRI	79.36	355	iPc	18	17.20	0.7		1.0s		33.80nm			5.3mb			EHOR	85.07	20	iPc	18	46.06	-0.1
PYA	79.42	343	iPc+	18	17.00	0.1		Z 25s		2.40um			5.5MszX			TPE	85.10	360	eP	18	47.50	1.2
	Z 22s		2.40um			5.5Msz	RSM	81.26	5	P	18	28.40	1.8			MGR	85.18	3	P	18	46.90	0.2
			i	18	31.00		PGD	81.27	6	P	18	28.44	1.5			ACU	85.25	16	eP	18	48.87	1.7

17d 06h

LIT	85.27	358	eP	18	47.28	0.1
PAIG	85.41	357	eP	18	47.48	-0.4
ELUO	85.51	19	eP	18	48.51	0.0
SRN	85.51	360	eP	18	45.80	-2.5
CSI	85.56	3	P	18	49.50	0.8
TDS	85.68	3	P	18	49.90	0.7
ROI	85.77	3	P	18	50.70	0.9
IGT	85.86	360	eP	18	50.52	0.4
ECOG	85.92	19	iPd	18	50.65	0.0
QUE	86.08	321	eP	18	52.40	0.8
CZI	86.11	3	P	18	50.80	-0.6
MAL	86.29	19	iPc	18	53.40	1.1
			iS	29	28.00	
AGG	86.35	358	eP	18	52.00	-0.6
EGUA	86.35	19	iPc	18	52.12	-0.5
EJIF	86.35	20	iPc	18	53.02	0.4
GRI	86.52	3	P	18	53.75	0.3
	0.7s	81.90nm			6.1mb	
CTA	87.61	229	iPKPc	18	59.00	0.2
	1.0s	12.50nm			5.1mb	
			i	19	09.00	
			eSKS	29	30.00	
AVE	88.98	23	iP	19	06.00	0.6
			i	19	20.00	
CSS	89.68	349	eP	19	08.70	0.0
QIS	91.04	235	eP	19	18.80	3.9X
	0.7s	4.00nm			4.9mb	
HYB	92.51	305	ePc	19	21.50	-0.4
WB2	93.05	239	eP	19	23.00	-1.1
	0.7s	10.10nm			5.4mb	
WRA	93.05	239	P	19	23.50	-0.7
	0.7s	6.50nm			5.2mb	
GBA	96.34	304	P	19	39.00	-0.5
ASPA	96.41	237	iPc	19	38.80	-0 7
	0.9s	7.90nm			5.2mb	
			eS	30	25.70	
PPD	118.45	88	(PKP)	24	57.00	-1.5
BCAO	120.79	2	iPKPd	25	02.10	-1.0
	0.9s	27.00nm				
			ic	26	29.00	
			id	26	42.20	
BUL	144.61	346	iPKPd	25	46.00	-1.6
	1.0s	140.00nm				
			iPP	29	03.00	
SPA	144.80	180	iPKPc	25	43.90	-2.6X
	1.0s	65.00nm				
CIR	144.97	341	iPKPc	25	49.00	0.9
			i	26	02.00	
WIN	147.56	5	iPKPc	25	55.00	2.5X
	1 0s	130.00nm				
PAF	149.23	259	ePKP	26	02.20	8.2X
BFT	149.81	342	iPKPc	26	00.50	4.5X
	0.7s	33.00nm				
SLR	150.15	345	iPKPc	25	53.00	-3.4X
	0 7s	116.00nm				
	Z 20s	6.66um			6.4MszX	
KSR	150.47	347	iPKPc	26	01.50	4.6X
	1.0s	120.00nm				
PRY	151.44	346	iPKPd	26	03.70	5.4X
	0.7s	37.00nm				
SEK	152.79	345	iPKPc	26	07.50	7.3X
	0.7s	55.00nm				
BLF	153.76	348	ePKP	26	02.00	0.5
	0.7s	22.00nm				
FRS	154.49	349	ePKP	26	10.00	7.7X
	S.D. = 0.9	on 382 of 418 obs.				

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* MAY 17, 1993 06h 41m 47.49± 0.75s
38.558 N ± 6.9km 23.833 E ± 8.5km
DEPTH = 12.6 ± 4.8 km
GREECE (364)
MD 3.3 (ATH).

ATH	0.59	189	ePb	41	59.00	-0.2
			eS	42	08.00	
AGG	1.26	292	ePb	42	12.30	1.6
			eSb	42	31.42	
PAIG	1.37	355	iPg	42	11.01	-1.3
OUR	1.78	4	iPb	42	16.33	-1.8
LIT	1.86	326	ePb	42	20.50	1.2
VLI	1.97	201	ePn	42	20.10	-0.8
PRK	2.02	69	ePb	42	21.50	-0.2
THE	2.18	342	ePb	42	23.74	-0.2
SOH	2.29	351	ePb	42	24.62	-1.0
			eSb	42	50.06	
EZN	2.31	56	ePn	42	26.50	0.6
KZN	2.37	318	ePn	42	32.50	5.8X
SRS	2.56	356	ePn	42	28.66	-0.8
			iSn	42	58.06	
GRG	2.64	336	ePn	42	29.10	-1.4
KNT	2.70	345	ePn	42	31.86	0.5
ALN	2.89	35	ePn	42	35.38	1.3
RDO	2.90	26	ePn	42	36.50	2.4
FNA	2.92	320	ePn	42	35.82	1.3
VAY	2.93	341	ePn	42	44.00	9.5X
VAM	3.16	175	ePn	42	47.50	9.6X
OHR	3.46	318	ePn	42	50.30	8.1X
SKO	3.87	333	ePn	42	50.50	2.5X
	S.D. = 1.4	on 16 of 21 obs.				

& MAY 17, 1993 06h 43m 30.97s
63.185 N 150.678 W
DEPTH = 127.4km
4.8mb (28 obs.)
CENTRAL ALASKA (1)
<AEIC>. Felt (III) at Cantwell, Lake Minchumina and Skwentna. Felt (II) at Palmer.

HUR	0.52	113	iPc	43	49.69	-0.4
			eS	44	04.34	
CUT	0.81	166	eP	43	52.21	0.1
			eS	44	07.63	
RND	0.85	74	iPd	43	52.17	-0.5
MCK	0.96	54	iPd	43	53.25	-0.3
			eS	44	09.98	
SKT	1.27	198	iPd	43	56.55	-0.2
			eS	44	16.01	
NEA	1.57	26	iPd	43	59.31	-0.7
			eS	44	19 87	
PWA	1.58	166	P	44	00.00	-0.2
GHO	1.64	149	iPc	44	00.28	-0.6
SUA	1.73	181	iPc	44	01.78	-0.3
			eS	44	25.66	
WRH	1.73	40	iPd	44	01.31	-0.6
PLRM	1.75	155	iPc	44	01.13	-1.1
			eS	44	24.82	
PMR	1.75	155	iPc	44	01.00	-1.2
SML	1.76	141	iPc	44	01.26	-1.1
MLY	1.85	359	iPc	44	03.21	-0.3
CCB	1.94	40	iPd	44	03.77	-0.7
CGLM	1.98	199	eP	44	05.56	0.4
PMS	2.02	164	P	44	04.60	-0.9
CRP	2.05	200	iPd	44	05.93	-0.1
CPAM	2.06	200	iPd	44	05.94	-0.1
HDA	2.06	52	iPd	44	05.09	-0.9
CP2	2.06	201	iPd	44	06.24	0.0
SCM	2.06	130	iPc	44	04.78	-1.3
MDM	2.08	30	iPd	44	05.68	-0.6
			iS	44	31.00	
BGL	2.09	203	iPd	44	06.78	0.3
CKN	2.09	200	ePd	44	06.60	0.2
SPU	2.11	198	iPd	44	06.45	-0.2
CKT	2.12	200	iPd	44	06.65	-0.1
FBA	2.14	35	P	44	06.40	-0.6
CKL	2.14	202	iPd	44	07.03	-0.1
THY	2.24	82	ePc	44	08.39	0.1
			eS	44	34.90	
GLM	2.32	37	iPd	44	08.64	-0.6
			eS	44	35.76	
PAX	2.38	93	ePd	44	09.44	-0.7
TTA	2.44	266	P	44	11.10	0.2
SDG	2.45	103	iPc	44	10.01	-0.9
PTE	2.46	161	iPc	44	09.70	-1.3
NKA	2.47	186	ePd	44	13.20	2.1
TZL	2.68	113	iPc	44	13.45	-0.5
SLKM	2.70	175	iPc	44	13.13	-1.0
DFR	2.77	201	iPd	44	15.11	-0.1
MPA	2.78	166	iPc	44	13.81	-1.3
KLU	2.79	125	iPc	44	13.61	-1.9
NCT	2.84	203	ePd	44	15.78	-0.4
			eS	44	50.01	
RDN	2.86	201	eP	44	16.43	0.1
RDW	2.89	201	iPd	44	17.01	0.1
VLZ	2.90	133	iPc	44	14.40	-2.3
			eS	44	48.73	
RSO	2.90	201	P	44	16.70	-0.4
SVW	3.12	230	P	44	19.60	-0.1
SEW	3.15	169	ePc	44	18.49	-1.5
IMA	3.17	337	P	44	20.20	-0.3
INE	3.34	201	eP	44	22.25	-0.5
INW	3.34	202	ePd	44	22.16	-0.6
HIN	3.43	143	iPc	44	21.68	-2.2
BRLK	3.43	182	ePc	44	23.22	-0.7
TMW	3.48	84	iPd	44	22.82	-1.6
CVA	3.53	136	ePc	44	22.84	-2.3
GLB	3.65	116	iPc	44	25.32	-1.5
			iS	45	06.31	
CNPM	3.68	184	iPc	44	26.43	-0.8
			eS	45	08.00	
XLV	3.78	188	eP	44	28.24	-0.2
PDB	3.80	208	ePd	44	28.63	-0.2
RAGM	4.00	132	iPc	44	29.27	-2.3
AUL	4.04	200	eP	44	32.53	0.5
AUE	4.05	200	eP	44	32.47	0.3
AUH	4.06	200	eP	44	32.51	0.2
AUI	4.08	200	eP	44	32.29	-0.3
FYU	4.11	32	iPd	44	31.97	-1.0
CROM	4.31	121	iPc	44	33.57	-2.3
MID	4.31	149	P	44	34.20	-1.4
MCNL	4.39	205	ePd	44	36.23	-0.5
TGL	4.43	120	iPc	44	35.10	-2.3
BALM	4.47	115	iPc	44	35.79	-2.1
CDD	4.51	200	eP	44	37.78	-0.6
SYI	4.67	191	eP	44	39.14	-1.3
SNH	4.80	125	iPc	44	40.23	-2.1
CTGM	4.93	113	iPc	44	42.47	-1.7
CYK	4.99	125	eP	44	43.53	-1.3
YAH	5.10	120	iPc	44	44.05	-2.5
KDC	5.53	190	P	44	50.00	-2.1
BRW	8.48	347	P	45	30.30	-1.8
INK	8.71	46	eP	45	32.50	-2.7
	1.0s	46.00nm			5.1mb X	
SIT	9.80	122	ePc	45	47.30	-2.5
ILT	12.45	304	iPc	46	24.80	0.2
	1.0s	84.00nm			5.3mb	
YKA	16.35	76	eP	47	11.80	-2.2
	1.0s	30.00nm			4.5mb	
MBC	16.65	26	eP	47	15.00	-2.6
	0.6s	10 00nm			4.3mb	
GMW	22.01	122	P	48	14.20	-1.1
			pP	48	41.10	135kmX
RMW	22.46	121	P	48	21.50	1.7
			pP	48	45.80	118kmX
LON	23.04	122	P	48	25.40	0.0
			pP	48	52.10	131kmX
DPW	23.57	115	P	48	29.30	-1.2
			pP	48	57.20	137kmX
NEW	23.71	113	P	48	32.30	0.5
	1.0s	13.56nm			4.4mb	
			pP	48	58.70	128kmX
FCC	27.03	73	ePd	49	07.40	5.0
MGD	27.13	290	eP	49	03.00	-0.3
	0.7s	30.00nm			5.0mb	
LRM	27.60	111	eP	49	07.50	-0.5
LBFM	27.65	129	P	49	27.50	19.1
LGPM	27.71	130	P	49	09.90	1.1
			pP	49	37.40	129kmX
BW06	31.28	111	P	49	40.60	0.0
	0.8s	6.28nm			4.4mb	
			pP	50	08.30	127kmX
ULM	31.66	88	eP	49	48.00	4.4
BONR	31.94	127	P	49	46.50	0.0
TNP	32.22	125	P	49	49.30	0.5
	0.8s	7.34nm			4.5mb	
			pP	50	18.40	134kmX
DAU	32.54	116	P	49	52.30	0.6
RSSD	32.59	104	P	49	51.50	-0.5
	0.6s	11.60nm			4.8mb	
MSU	33.79	119	P	50	03.20	0.8
BCH	33.80	131	P	50	03.20	0.8
SRU	33.94	116	P	50	04.10	0.4
FRB	34.32	51	ePd	50	04.90	-1.5
	0.6s	12.00nm			4.9mb	
GSC	34 84	127	P	50	12.10	0.8
GOL	35.60	110	P	50	18.00	0.2
	0.8s	4.92nm			4.4mb	
			pP	50	46.20	124kmX
PEC	35.98	129	P	50	20.70	-0.1
	0.6s	6.08nm			4.6mb	
PLM	36.57	129	P	50	26.50	0.5
DAG	37.11	17	eP	50	28.60	-1.2
	0.5s	40.85nm			5.5mb	
GLA	37.58	126	P	50	34.80	0.6
JAQ	38.06	68	ePd	50	36.40	-1.6
YSS	39.36	278	eP	50	48.80	0.0
	1.0s	30.00nm			5.0mb	
ACO	40.79	106	iPc	51	00.40	-0.4
EEO	41.88	78	ePd	51	11.00	1.5
MEO	42.65	107	iPd	51	15.50	-0.5
BOD	43.00	309	iPc	51	17.50	-0.9

	0.9s	29.00nm		5.0mb		
FVM	43.61	96 P	51 22.40	-1.3		
	0.5s	11.82nm		4.9mb		
GAC	44.19	76 eP	51 28.00	-0.3		
LTX	45.22	116 P	51 35.50	-1.2		
CBM	46.43	70 P	51 44.50	-1.4		
	0.5s	16.60nm		5.0mb		
KEV	47.33	1 eP	51 51.00	-1.7		
CIT	47.74	304 eP	51 56.00	-0 2		
GBTN	48.33	92 P	51 59.30	-1.6		
LMN	48.68	68 ePd	52 04.80	1.3		
SDF	49.67	1 iP	52 09.20	-1.5		
GOGA	50.55	93 P	52 16.20	-1.7		
	0.6s	3.48nm		4.4mb		
ZAK	52.81	309 eP	52 34.00	-0 6		
	0.6s	10.00nm		4.9mb		
KAF	55.00	2 iP	52 48.30	-2.1		
	0.3s	2.40nm		4.6mb		
NB2	55.34	11 P	52 50.20	-2.8		
	0.8s	5.60nm		4.6mb		
ELT	55.69	322 eP	52 53.30	-2.2		
	0.7s	32.00nm		5.4mb		
HFS	56.43	9 eP	52 57.80	-2.9		
	0.5s	5.20nm		4.7mb		
NUR	56.58	3 iP	52 59.30	-2.4		
	0.4s	2.70nm		4.6mb		
EKA	59.15	21 P	53 18.00	-1.8		
	0.9s	9.50nm		4.8mb		
OBN	61.92	355 iPc	53 36.80	-1.7		
	0.8s	49.00nm		5.5mb		
GEC2	67 63	11 PKP	54 13.30	-2.2		
	1.0s	1.28nm		3.7mb X		
KIV	72.68	350 eP	54 45.10	-1.0		
	1.0s	35.00nm		5.1mb		
MAIO	77.96	335 iPc	55 16.20	0.2		
GUN	78.83	311 P	55 20.60	-0.6		
KKN	79.14	312 P	55 22.40	-0 4		
	0 6s	14.00nm		4.9mb		
GKN	79.16	312 P	55 22.20	-0.6		
PKI	79.30	311 P	55 23.20	-0.6		
	0.8s	17.00nm		4.9mb		
DMN	79.37	312 P	55 23.80	-0.2		
	141 obs. associoted					

MAY 17, 1993 07h 18m 10.10± 0.32s
55.953 N ± 6.5km 164.457 E ± 4.7km
DEPTH = 40.4km (4 depth phases)
4.5mb (20 obs.)
KOMANDORSKY ISLANDS REGION (4)

PET	4.49	231 ePn	19 17.00	-0.4	
SMY	6.50	116 eP	19 45.68	0.0	
SKR	7.28	227 ePn	19 54.70	-2.0	
Z	14s	1.10um			
N	14s	1.10um			
E	14s	1.20um			
MGD	8.35	305 ePn	20 10.00	-1.5	
Z	12s	0.70um			
N	12s	0.80um			
E	12s	0.60um			
SEY	9.27	324 ePn	20 26.00	1.8	
ILT	14.29	26 iPc	21 31.50	0.1	
	1.0s	12.00nm		4.4mb	
YSS	16.17	246 (P)	21 56.00	0.3	
	0.9s	20.00nm		4.2mb	
Z	15s	0.90um		5.1Msz	
N	15s	0.50um			
E	15s	0.60um			
KUSJ	18.07	233 eP	22 12.40	-7.1X	
ASAJ	18.25	239 eP	22 22.30	0.5	
YAK	18.72	303 eP	22 29.00	1.6	
		eS	25 53.00		
HOOJ	19.28	234 eP	22 29.00	-5.1X	
TTA	20.98	54 (P)	22 52.83	0.9	
	1.1s	24.10nm		4 5mb	
SVW	21.21	59 (P)	22 54.28	0.1	
	1.1s	29.28nm		4 6mb	
TIK	21.69	330 iPd	22 58.50	-0.3	
	1.6s	65.00nm		4.8mb	
		i	23 11.00	52kmX	
IMA	22.21	46 eP	23 04.81	0.6	
	1.1s	9.43nm		4.1mb	
OFUJ	22.67	231 eP	23 09.90	1.1	
RSO	22.67	61 (P)	23 09.54	0.6	
CRP	22.87	59 (P)	23 12.59	1.8	
SLKM	23.91	60 (P)	23 22.60	1.9	
PMR	24.27	57 eP	23 25.90	1.8	
FBA	24.61	49 (P)	23 27.01	-0.4	
	1.4s	21.77nm		4.5mb	
FBA	24.61	49 eP	23 23.40	-4.0X	
KLU	25.81	57 (P)	23 37.58	-1.2	
MAT	26.31	233 eP	23 45.00	1.4	
BOD	27.01	295 eP	23 52.80	3.0X	
BALM	27.59	57 eP	23 54.45	-0.7	
INK	30.04	41 eP	24 17.50	0.6	
	0.5s	1.00nm		3.8mb	
MBC	33.39	25 eP	24 46.50	0.4	
	0.8s	2.00nm		4.1mb	
NRI	34.89	323 eP	24 58.00	-1.1	
	1.0s	10.00nm		4.7mb	
		e	25 09.00	40km	
YKA	39.34	46 eP	25 35.90	-0.6	
	0.4s	0.60nm		3.7mb	
RMW	44.42	69 (P)	26 18.96	0.5	
LBFM	48.45	75 (P)	26 50.12	-0.3	
FCC	49.65	42 eP	27 04.50	5.4X	
SVE	51.93	317 eP	27 13.10	-3.4X	
MEMM	52.66	76 (P)	27 19.38	-2.8	
BONR	52.80	75 (P)	27 22.60	-1.0	
		i	27 35.84	48km	
TNP	53.30	75 (P)	27 26.24	-0.9	
	1.2s	7.90nm		4.6mb	
FRB	53.84	26 eP	27 29.50	-1.0	
	0.7s	3.00nm		4.4mb	
BW06	53.95	65 (P)	27 31.86	-0.1	
	1.0s	6.20nm		4.6mb	
		i	27 42.27	35km	
ULM	55.02	51 eP	27 48.50	9.1X	
MSU	55.69	71 eP	27 45.19	0.5	
		i	27 56.66	39km	
RSSD	55.74	61 (P)	27 44.44	-0.5	
SRU	56.12	69 eP	27 48.20	0.5	
GOL	58.35	65 (P)	28 04.64	1.1	
	1.3s	10.97nm		4.8mb	
CHTO	60.93	260 eP	28 20.80	-0 4	
NB2	61.46	346 P	28 23.30	-1.0	
	0.8s	3 10nm		4.5mb	
HFS	61.96	344 eP	28 25.80	-1.8	
	0.4s	1.40nm		4.4mb	
FVM	66.99	56 (P)	28 59.82	-0.8	
	0.5s	7.09nm		5.0mb	
LTX	67.24	71 eP	29 01.13	-1.3	
ZST	72.69	338 eP	29 46.40	11.3X	
WB2	79.78	209 eP	30 16.00	0.7	
	0.9s	3.30nm		4.3mb	
WRA	79.78	209 P	30 16.50	1.2	
	0.6s	0.90nm		3.9mb	
KOD	79.92	273 eP	30 10.00	-6.6X	
	S.D. = 1.1	on 44 of 53 obs.			

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* MAY 17, 1993 07h 40m 30.27± 0.88s
18.729 S ± 9.1km 69.372 W ± 9.1km
DEPTH = 122.4 ± 9.2 km
4.0mb (2 obs.)
NORTHERN CHILE (123)

CNCB	2.32	35 iPd	41 07.10	-1.9	
		i	41 34.00		
LPB	2.50	29 P	41 11.80	0.7	
		i	41 35.00		
ZOBO	2.72	26 iPd	41 14.10	-0.1	
		i	41 44.00		
CCH	3.36	67 Pd	41 23.50	1.1	
YJA	4.99	134 ePc	41 51.30	6.7X	
ANT	5.05	191 eP	41 44.70	-0.2	
HJA	5.80	141 ePd	42 02.80	7.5X	
NNA	9.84	312 eP	42 50.50	0.5	
		eS	44 30.50		
PPD	17.25	104 eP	44 24.70	-0.4	
		e	44 27.50		
BAO	20.66	85 iPc	45 04.00	1 7	
VAO	21.36	105 eP	45 09.60	0.4	
		e	45 11.30		
ALQ	63.95	327 eP	50 53.00	0.2	
	0.8s	1.21nm		3.9mb	
LIC	68.06	75 P	51 18.40	-0.7	
Z	21s	0 16um		4.2Msz	
KIC	68.38	75 P	51 19.40	-1.7	
YKA	88.44	341 eP	53 09.60	0.3	
	0.5s	1 20nm		4.2mb	
	S.D. = 1.2	on 13 of 15 obs.			

% MAY 17, 1993 07h 53m 51.25± 1.07s
39.280 N ±10.3km 22.923 E ± 8.4km
DEPTH = 10.0km (geophysicist)
GREECE (364)

AGG	0.53	241 iPg	54 01.77	-0.2	
		eSg	54 11.28		
PAIG	0.87	42 ePg	54 08.01	0.0	
		eSg	54 20.25		
LIT	0.88	338 ePg	54 08.12	-0.1	
		eSg	54 22.92		
OUR	1.33	37 ePb	54 14.60	-1.2	
		eSb	54 33.64		
GRG	1.72	347 ePb	54 21.80	0.4	
KNT	1.88	359 ePb	54 24.00	0.3	
ALN	2.89	55 ePn	54 38.92	0.8	
	S.D. = 0.8	on 7 of 7 obs.			

MAY 17, 1993 08h 45m 02.67± 0.28s
39.586 N ± 3.1km 118.056 W ± 2.8km
DEPTH = 5.0km (geophysicist)
NEVADA (37)
ML 3.8 (GS), 4.0 (BRK). Felt
(II) ot Fallon.

KVN	0.54	184 iPc	45 14.33	0.9	
TNP	1.64	156 iPc	45 32.68	0.2	
BONR	1.64	187 iPc	45 32.72	0.2	
MRCM	1.94	191 eP	45 36.80	-0.1	
		eS	46 05.32		
MEMM	2.04	200 eP	45 38.67	0.7	
MMPM	2.12	201 ePn	45 39.27	-0.2	
		e	45 42.83		
		S	46 10.18		
CMB	2.39	230 ePd	45 42.05	-1.1	
		eS	46 18.76		
ORV	2.66	270 eP	45 46.05	-1.0	
		eS	46 25.00		
MIN	2.83	287 eP	45 49.33	-0.2	
		eS	46 31.06		
LMEM	2.86	291 (Pn)	45 50.14	0.1	
		ePg	45 53.91		
		eS	46 32.90		
FRI	2.90	207 eP	45 54.13	3.8X	
		eS	46 33.78		
TPNV	2.99	151 ePn	45 51.93	0.1	
		iPg	45 59.47		
		eS	46 40.42		
HMR	3.25	245 ePg	46 04.65	9.3X	
LBFM	3.41	302 ePn	45 57.97	0.1	
		ePb	46 02.19		
ARN	3.53	232 ePn	45 58.88	-0.4	
		ePg	46 06.86		
		S	46 52.89		
MHC	3.60	233 eP	45 59.85	-0.5	
		eS	46 57.49		
COE	3.67	232 ePn	46 02.00	0.7	
		ePg	46 10.61		
		eS	46 59.35		
BKS	3.69	244 eP	46 05.49	3.9X	
		eS	46 58.10		
NTYM	3.78	253 (Pn)	46 02.32	-0.6	
		ePg	46 09.89		
		eS	47 00.90		
SAO	3.88	225 ePn	46 03.33	-1.0	
		ePg	46 13.10		
		eS	47 06.87		
LGPM	3.89	291 (P)	46 05.54	1.0	
ISA	3.93	185 P	46 12.20	7.1X	
PRI	4.01	212 eP	46 15.37	9.1X	
JEGM	4.03	240 (P)	46 06.82	0.5	
DUG	4.08	80 ePnd	46 07.44	0.2	
		ePg	46 20.03		
		eS	47 12.98		
PHAM	4.18	207 (P)	46 18.38	9.9X	
GSC	4.39	167 eP	46 11.20	-0.4	
HVU	4.57	60 eP	46 12.43	-1.8	
BCH	4.68	201 (Pn)	46 16.54	0.8	
MSU	4.70	101 eP	46 15.59	-0.6	
KMPM	4.73	282 (P)	46 16.31	-0.2	
ABL	4.82	191 (P)	46 17.53	-0.3	
DAU	5.29	79 eP	46 22.98	-1.6	
SSK	5.37	177 (P)	46 26.58	0.9	
EMUT	5.59	85 eP	46 29.55	0.8	
PEC	5.73	173 (P)	46 29.93	-0.6	
SRU	5.86	92 ePn	46 33.30	0.8	
		eS	48 04.24		
PLM	6.29	171 (P)	46 38.82	0.2	
MCMT	6.51	35 ePn	46 43.00	1.3	

17d 08h

TPMT	7 00	41	ePn	46 56.70	8.2X	
PV09	7.03	96	P	47 06.40	17.3X	
			e	47 15.70		
PV10	7.13	97	(Pn)	46 54.27	3.9X	
BW06	7.16	61	eP	46 50.25	-0.6	
			eS	48 47.06		
BGMT	7.19	36	ePn	47 00.30	9.2X	
PV08	7.39	95	(P)	47 00.28	6.1X	
LRM	7.47	32	ePn	47 08.70	13.5X	
LCCM	7.73	34	ePn	47 04.50	5.9X	
TUC	9.35	139	(P)	47 52.29	31.1X	
RSSD	11.39	62	(P)	47 45.29	-4.0X	
YKA	23.03	4	eP	50 10.90	1.5	
	1.0s		0.70nm		3.1mb	
	S.D. = 0.8		on 35 of 50 obs.			

% MAY 17, 1993 08h 53m 47.36± 1.13s
39.097 N ± 8.3km 27.676 E ±13.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

IZM	0.77	205	ePg	54 02.40	0.0	
			eSg	54 13.90		
EDC	1.26	7	iPn	54 11.50	0.8	
KCT	1.26	24	iPn	54 11.00	0.1	
BNT	1.27	8	ePn	54 10.00	-1.0	
EZN	1.27	305	ePn	54 11.00	0.0	
	S.D. = 0.9		on 5 of 5 obs.			

? MAY 17, 1993 09h 01m 17.37± 0.61s
36.552 N ±10.6km 71.878 E ±11.5km
DEPTH = 150.0km (geophysicist)
3.9mb (4 obs.)
AFGHANISTAN-TAJIKISTAN BORD REG.(717)

QUE	7.57	214	eP	03 06.80	0.5	
			eS	04 41.80		
MAIO	9.98	272	iPd	03 37.70	-0.6	
			eS	05 22.00		
GBA	23.39	166	P	06 14.00	0.5	
MAT	52.28	69	eP	10 32.00	16.7X	
	0.7s		8.90nm			
MBC	67.25	3	eP	11 57.00	0.1	
	1.0s		3.00nm		4.1mb	
INK	73.74	10	eP	12 37.00	1.0	
YKA	81.16	3	eP	13 16.80	0.0	
	0.7s		0.60nm		3.4mb	
WRA	81.42	122	P	13 18.80	-0.1	
	0.6s		0.80nm		3.6mb	
WB2	81.43	122	eP	13 17.60	-1.3	
	0.6s		2.60nm		4.1mb	
	S.D. = 0.9		on 8 of 9 obs.			

• MAY 17, 1993 09h 05m 48.19± 0.91s
39.297 N ± 7.2km 27.565 E ±10.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

IZM	0.93	195	ePg	06 06.00	0.0	
			eSg	06 19.50		
EDC	1.07	12	ePn	06 08.50	0.1	
BNT	1.09	14	ePn	06 09.00	0.3	
EZN	1.09	299	iPn	06 08.60	-0.1	
KCT	1.13	32	iPn	06 09.00	-0.4	
CIN	1.74	166	eP	06 13.00	-5.7X	
	S.D. = 0.3		on 5 of 6 obs.			

& MAY 17, 1993 09h 20m 08.48s
66.218 N 150.219 W
DEPTH = 26.3km
NORTHERN ALASKA (676)
<AEIC>. ML 2.9 (AEIC), 3.4 (PMR).

MLY	1.21	191	iP	20 29.19	-0.6	
			S	20 45.11		
IMA	1.41	265	P	20 33.20	0.4	
			S	20 53.40		
MDM	1.51	146	iP	20 33.73	-0.4	
			eS	20 53.39		
FBA	1.66	142	P	20 36.50	0.2	
			S	20 57.00		
GLM	1.71	135	eP	20 35.51	-1.4	
			eS	20 57.81		
NEA	1.72	163	eP	20 37.74	0.7	
			S	20 58.67		
CCB	1.87	146	eP	20 37.81	-1.5	
			eS	21 03.27		
WRH	1.97	152	eP	20 39.28	-1.4	
			S	21 06.21		
FYU	2.04	78	eP	20 40.30	-1.4	
			S	21 06.28		
HDA	2.28	142	P	20 47.50	2.4	
			S	21 15.40		
HDA	2.28	142	eP	20 43.78	-1.3	
MCK	2.56	167	eP	20 48.47	-0.6	
TRF	2.78	181	eP	20 51.91	-0.4	
TTA	4.14	220	eP	21 10.00	-1.6	
	14 obs. associated					

% MAY 17, 1993 09h 32m 06.74± 1.43s
44.798 S ± 6.6km 167.542 E ±14.3km
DEPTH = 80.0km (geophysicist)
SOUTH ISLAND, NEW ZEALAND (162)

MSZ	0.30	65	Pc	32 20.20	1.1	
			S	32 28.40		
TLC	1.15	110	Pc	32 28.40	0.3	
BCZ	1.23	170	P	32 28.20	-0.7	
			eS	32 42.70		
MHZ	1.26	103	Pd	32 30.00	0.5	
SBCZ	1.29	104	Pd	32 30.20	0.4	
LRCZ	1.31	102	P	32 30.50	0.4	
LSCZ	1.34	104	P	32 30.60	0.2	
TUZ	1.87	129	P	32 36.90	-0.5	
			eS	32 56.80		
ODZ	2.22	97	P	32 41.70	-0.5	
EWZ	2.71	63	P	32 48.90	0.0	
WVZ	2.88	54	eP	32 51.60	0.4	
LTZ	3.97	61	P	33 05.10	-1.4	
DSZ	4.36	47	P	33 12.00	0.1	
ORZ	5.40	44	eP	33 26.10	-0.4	
	S.D. = 0.7		on 14 of 14 obs.			

MAY 17, 1993 09h 50m 57.94± 0.43s
35.622 N ± 4.5km 112.197 W ± 5.2km
DEPTH = 10.0km (geophysicist)
WESTERN ARIZONA (42)
ML 3.0 (GS).

MSU	2.89	0	ePn	51 45.11	0.1	
			ePg	51 47.78		
GLA	3.36	221	ePn	51 51.24	-0.4	
			iPg	52 01.85		
TUC	3.51	160	ePnd	51 54.00	0.3	
			ePb	51 57.99		
			iPg	52 02.51		
			eSg	52 48.51		
TPNV	3.53	293	(Pn)	51 53.48	-0.6	
			ePg	52 03.69		
SRU	3.73	20	ePn	51 57.07	0.1	
PV10	3.73	42	ePn	51 56.87	-0.3	
			ePg	52 04.44		
			eSn	52 42.14		
PV09	3.77	40	ePn	51 58.08	0.3	
PV08	4.09	43	ePn	52 02.26	0.1	
			ePg	52 11.79		
EMUT	4.33	14	ePn	52 05.78	0.3	
			ePg	52 14.52		
PLM	4.47	241	eP	52 08.06	0.6	
TNP	4.72	303	ePg	52 24.05	13.0X	
ALQ	4.74	97	ePn	52 10.85	-0.6	
DAU	4.84	9	P	52 23.31	10.5X	
DAU	4.84	9	(Pn)	52 12.82	0.0	
			ePg	52 23.80		
BONR	5.42	297	(P)	52 33.55	12.4X	
HVU	6.17	356	(P)	52 35.00	3.6X	
BW06	7.43	15	(P)	52 46.95	-2.3X	
	S.D. = 0.4		on 12 of 17 obs.			

? MAY 17, 1993 09h 55m 09.72± 1.17s
39.618 N ± 9.8km 29.422 E ±11.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

ALT	0.77	136	ePg	55 25.00	0.1	
			eSg	55 37.00		
YLV	0.95	358	ePn	55 28.50	0.7	
KCT	1.03	308	iPn	55 29.00	-0.3	
EYL	1.10	31	ePn	55 30.00	-0.5	
	S.D. = 0.9		on 4 of 4 obs.			

? MAY 17, 1993 09h 56m 20.30± 1.08s
39.124 N ± 8.1km 27.609 E ±12.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

IZM	0.77	201	ePg	56 35.40	0.0	
			eSg	56 48.40		
EZN	1.22	306	ePn	56 43.00	0.1	
EDC	1.24	9	ePn	56 43.00	-0.3	
KCT	1.26	27	ePn	56 44.00	0.2	
	S.D. = 0.4		on 4 of 4 obs.			

% MAY 17, 1993 09h 56m 57.06± 0.86s
39.723 N ± 7.8km 29.578 E ± 8.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

ALT	0.78	148	ePg	57 12.50	0.1	
YLV	0.86	349	ePn	57 14.00	0.4	
EYL	0.95	28	ePn	57 15.00	-0.3	
KCT	1.08	300	ePn	57 17.50	0.2	
EDC	1.46	296	ePn	57 23.00	-0.4	
	S.D. = 0.5		on 5 of 5 obs.			

? MAY 17, 1993 09h 58m 57.53± 5.94s
51.489 N ±34.8km 16.261 E ±37.5km
DEPTH = 10.0km (geophysicist)
POLAND (548)
MG 2.8 (WAR).

KSP	0.65	178	iPd	59 10.60	0.1	
	0.3s		67.00nm			
			iS	59 19.10		
			e	59 25.50		
BRG	1.58	248	iPn	59 26.30	0.7	
			iPg	59 26.80		
			iSg	59 46.90		
PRU	1.86	217	ePn	59 28.70	-0.9	
			Pg	59 31.30		
			i	59 35.70		
			e	59 48.90		
			eSg	59 54.40		
CLL	2.05	266	iPn	59 32.10	-0.3	
			iPg	59 35.00		
			eSg	00 02.00		
OJC	2.58	118	iP	59 49.50	9.5X	
			iS	00 22.50		
KHC	2.92	217	Pn	59 45.00	0.1	
			e	59 50.80		
			eSn	00 18.30		
			Sg	00 29.00		
HOF	3.01	249	eP	59 54.30	8.1X	
MOX	3.05	256	ePg	59 54.60	7.9X	
			iSg	00 34.80		
GEC2	3.12	213	Pn	59 47.80	0.1	
			Pg	59 54.30		
			Sn	00 24.50		
			Sg	00 37.40		
WET	3.19	224	iPnc	59 48.90	0.1	
KBA	4.81	205	eP	00 12.00	0.1	
	0.8s		14.10nm			
			iSg	01 31.00		
	S.D. = 0.5		on 8 of 11 obs.			

% MAY 17, 1993 10h 15m 24.75± 0.71s
38.461 S ± 4.7km 175.727 E ± 4.6km
DEPTH = 220.3 ± 7.4 km
NORTH ISLAND, NEW ZEALAND (159)

PATZ	0.43	79	P	15 53.80	-0.4	
UTU	0.46	52	P	15 54.00	-0.2	
WLZ	0.60	350	P	15 55.20	0.6	
			S	16 14.90		
TAZ	0.66	70	P	15 54.60	-0.2	
NGZ	0.72	188	P	15 55.40	-0.1	
MOZ	0.73	266	P	15 55.40	0.0	
			S	16 16.40		
WHH	0.74	125	P	15 54.70	-0.8	
CNZ	0.75	191	P	15 55.70	0.1	
URZ	1.11	80	P	15 56.60	-0.9	
			S	16 16.80		
PAHZ	1.11	111	P	15 57.50	-0.2	
MOH	1.30	122	P	15 59.30	0.4	
WAHZ	1.33	159	P	15 59.50	0.3	

TTH	1.38	142	P	16	00.10	0.6
BSZ	1.47	205	P	16	00.50	0.2
KUZ	1.71	360	P	16	03.10	0.7
TEHZ	1.74	151	P	16	03.10	0.4
NOZ	1.82	96	P	16	03.40	0.0
MAHZ	1.83	114	P	16	04.00	0.5
PUZ	2.03	80	P	16	05.10	-0.3
			S	16	31.40	
MNG	2.16	185	P	16	07.00	0.2
			S	16	34.90	
HBZ	2.21	68	P	16	07.20	0.0
KIW	2.48	194	P	16	10.20	0.1
CAW	2.69	191	P	16	12.60	0.2
MTW	2.70	184	P	16	12.20	-0.3
DIW	2.72	210	P	16	12.70	0.0
MRW	2.88	196	P	16	14.50	0.0
			S	16	49.10	
BLW	2.91	184	P	16	14.70	-0.1
WEL	2.92	194	P	16	15.10	0.2
TCW	2.97	202	P	16	15.60	0.1
MOW	2.98	187	P	16	15.50	-0.1
ORZ	3.42	225	P	16	20.40	-0.3
THZ	3.94	212	eP	16	27.10	-0.1
			eS	17	13.30	
KHZ	4.29	202	Pc	16	31.90	0.6
			eS	17	20.50	
DSZ	4.45	221	eP	16	32.60	-0.8
LTZ	5.05	210	eP	16	40.10	-0.8
			S	17	36.20	
WVZ	5.97	218	eP	16	52.90	0.4
EWZ	6.25	215	eP	16	56.60	0.5
ODZ	7.59	208	eP	17	13.10	-0.3
LRCZ	8.14	214	eP	17	18.60	-2.2X
LSCZ	8.17	213	eP	17	19.30	-1.8X
SBCZ	8.17	214	eP	17	19.10	-2.0X

S.D. = 0.4 on 38 of 41 obs.

MAY 17, 1993 10h 21m 45.56± 0.79s
32.075 N ± 8.9km 132.135 E ± 7.2km
DEPTH = 39.4 ± 12.1 km
3.5mb (2 obs.)
SHIKOKU, JAPAN (236)

KUMJ	1.20	293	iP+	22	05.90	-0.2
			S	22	20.40	
KAGJ	1.38	231	P	22	09.00	0.3
			S	22	26.90	
SHNJ	2.22	337	P	22	20.50	-0.2
			eS	22	46.50	
TKSJ	2.49	40	P	22	24.50	-0.1
YONJ	3.30	19	eP	22	36.30	0.3
WKYJ	3.60	53	P	22	40.00	-0.4
			S	23	18.20	
TSRJ	4.71	42	P	22	56.70	0.7
			S	23	46.50	
MAT	6.71	47	eP	23	24.00	-0.3
WRA	51.77	177	P	30	51.30	-0.2
	0.6s		0.70nm		3.8mb	
YKA	71.80	27	eP	33	05.70	0.1
	0.4s		0.10nm		3.1mb	

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

? MAY 17, 1993 10h 28m 50.47± 2.67s
15.287 S ±35.5km 173.530 W ±23.9km
DEPTH = 136.3 ± 23.3 km
4.4mb (9 obs.)
TONGA ISLANDS (173)

SVA	8.18	249	eP	30	47.70	0.1
DZM	20.12	247	iPc	33	18.20	2.3
TOO	42.44	231	eP	36	32.40	-1 0
	0.6s		9.00nm		4.6mb	
STK	43.99	240	eP	36	45.20	-0.8
	0.9s		1.20nm		3 6mb	
WB2	49.73	257	eP	37	30.40	-0.7
	0.6s		3.90nm		4 4mb	
WRA	49.75	257	P	37	30.90	-0.2
	0.7s		1.40nm		3.9mb	
ASPA	50.03	252	iPd	37	32.00	-1.3
	0.8s		8.70nm		4.6mb	
Z	21s		0.60um		4.6Msz	
MSU	78.44	45	iPc	40	38.60	0.6
KLU	79.61	13	(P)	40	42.77	-0.9
PV09	80.51	46	(P)	40	49.08	-0.2
PV10	80.52	46	eP	40	49.15	-0.1
LTX	80.65	56	eP	40	48.97	-0.9
ALO	80.82	50	eP	40	50.86	0.0
	1.1s		4.98nm		4.2mb	
LRM	82.00	38	eP	40	57.00	0.2
BW06	82.27	42	eP	40	57 00	-1.2
	1.8s		20.96nm		4.6mb	
GOL	83.67	46	ePc	41	05.66	0.2
	1.3s		13.29nm		4.6mb	
GLD	83.79	46	ePd	41	07.56	1.6
BJI	85.30	314	eP	41	22.00	8.8X
RSSD	86.46	43	ePc	41	18.98	-0.2
MEO	86.70	53	iPc	41	20.20	-0.1
YKA	90.04	23	eP	41	34.30	-1.2
	0.9s		1.10nm		3.9mb	
SPC	144.36	344	ePKP	48	12.60	0.5
PRU	144.77	351	ePKP	48	18.00	5.4X
VRI	145.09	335	ePKP	48	19.50	6.3X
GRF	145.47	355	ePKP	48	15.40	1.6
MLR	145.71	335	ePKPd	48	17.50	3.0X
KHC	145.75	352	PKP	48	17.00	2.7X
	1.3s		15.10nm			
			e	48	25.00	
			e	48	35.50	
GEC2	146.01	351	PKP	48	15.70	0.9
	0.9s		1.76nm			
			e	48	21.30	
			e	48	26.70	
ZST	146.03	347	ePKP	48	17.50	2.8X
SRO	146.12	346	ePKP	48	18.20	3.3X
CDF	146.96	359	ePKP	48	17.20	0.8
	1.1s		12.70nm			
SSF	148.22	4	ePKP	48	24.80	6.5X
	1.1s		16.85nm			
LBF	148.33	3	ePKP	48	24.90	6.4X
	1.0s		8.40nm			
VBY	148.98	348	ePKP	48	24.50	5.0X
LPL	149.86	360	ePKP	48	32.10	10.9X
	1.1s		10.00nm			
SKO	150.44	337	ePKP	48	29.50	7.7X
VAY	150.54	335	ePKP	48	29.30	7.3X
OHR	151.42	337	ePKP	48	20.00	-3.4X

S.D. = 1.0 on 24 of 38 obs.

& MAY 17, 1993 10h 54m 45.12s
60.030 N 152.018 W
DEPTH = 73.2km
2.9mb (1 obs.)
SOUTHERN ALASKA (2)
<AEIC>.

INE	0.53	274	iPc	54	57.85	-1.0
			eS	55	08.48	
INW	0.56	274	iPc	54	58.26	-0.9
			eS	55	09 06	
RSO	0.57	320	ePd	54	58.67	-0.6
			eS	55	09.44	
RDW	0.60	319	iPd	54	58.96	-0.7
			eS	55	10.04	
RDN	0.61	323	eP	54	59.04	-0.6
			eS	55	10.10	
BRLK	0.63	115	ePc	54	59.19	-0.6
			eS	55	10.54	
CNPM	0.64	142	iPc	54	59.27	-0.6
			eS	55	10.76	
DFR	0.65	330	iPd	54	59.29	-0.8
NCT	0.70	320	iPd	54	59.86	-0.7
NKA	0.81	28	iPd	55	02.91	1.2
AUE	0.96	226	iPc	55	02.67	-0.9
			eS	55	15.57	
AUL	0.97	228	ePc	55	02.82	-0.8
AUH	0.98	228	ePc	55	03.10	-0.8
			eS	55	17.70	
AUI	1.00	226	ePc	55	02.97	-1.0
			eS	55	17.10	
SLKM	1.02	61	eP	55	03.01	-1.3
			eS	55	17.72	
PDB	1.12	258	iPc	55	04.10	-1.5
			eS	55	19.18	
SPU	1.16	359	iPd	55	05.44	-0.7
			eS	55	22.01	
CKT	1.18	356	iPd	55	05.79	-0.6
			eS	55	22.11	
CKL	1.18	352	iPd	55	05.87	-0.6
CKN	1.20	356	iPd	55	06.41	-0.3
CPAM	1.23	357	iPd	55	06.75	-0.4
CP2	1.24	355	ePd	55	06.60	-0.8
			eS	55	23.09	
CRP	1.24	357	ePd	55	06.32	-1.0
			eS	55	24.18	
BGL	1.25	352	iPd	55	06.81	-0.6
CGLM	1.28	0	eP	55	07.37	-0.4
SEW	1.29	86	eP	55	06.36	-1.4
CDD	1.38	218	ePd	55	07.59	-1.4
			eS	55	25.31	
MPA	1.40	70	iPc	55	08.17	-1.1
SYI	1.44	188	ePc	55	08.64	-1.1
MCNL	1.45	235	iPc	55	08.08	-1.9
			eS	55	25.97	
SUA	1.57	23	iPd	55	11.19	-0.5
PTE	1.70	59	ePc	55	12.02	-1.3
PMS	1.72	44	P	55	13.00	-0.6
PWA	1.93	32	P	55	16.30	-0.2
SKT	1.97	7	iPd	55	16.08	-1.0
SVW	2.08	303	ePc	55	16.15	-2.4
PLRM	2.11	41	eP	55	17.36	-1.6
PMR	2.11	41	eP	55	16.87	-2.0
			eS	55	41.06	
KDC	2.30	186	eP	55	18.39	-3.1
GHO	2.31	40	ePd	55	20.30	-1.5
			eS	55	48.19	
SML	2.53	44	ePd	55	23.27	-1.6
HIN	2.78	80	eP	55	25.03	-3.2
SCM	2.92	50	ePc	55	28.68	-1.5
MID	2.94	99	P	55	29.10	-1.3
VLZ	3.02	66	eP	55	28.81	-2.6
CVA	3.16	78	eP	55	29.94	-3.6
HUR	3.17	20	eP	55	33.43	-0.3
KLU	3.33	61	iPc	55	33.47	-2.5
TTA	3.48	328	P	55	37.70	-0.4
TRF	3.53	13	eP	55	36.72	-2.1
RAGM	3.68	81	eP	55	37.76	-3.1
RND	3.71	23	eP	55	40.02	-1 2
GLB	4.27	67	ePc	55	45.76	-3.4
PAX	4.31	44	eP	55	47.61	-2.1
CROM	4.47	77	ePc	55	50.15	-1.9
TGL	4.62	77	ePd	55	51.67	-2.4
CYK	4.78	85	eP	55	54.63	-1.5
WRH	4.82	21	eP	55	54.49	-2.3
BALM	4.88	74	iPc	55	55.24	-2.5
HDA	4.99	26	eP	55	57.06	-2.1
CCB	5.03	21	eP	55	57.20	-2.5
YAH	5.14	82	eP	55	59.36	-2.1
FBA	5.27	20	eP	56	00.06	-2.9
CTGM	5.36	75	eP	56	02 44	-2.1
YKA	17.99	66	eP	58	48.20	-3.1
	0.5s		0.40nm		2 9mb	
	65 obs		ossociated			

% MAY 17, 1993 11h 01m 27.35± 0.63s
26.367 S ± 5.6km 27.384 E ± 6.3km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.7 (PRE).

PRY	0.57	172	eP	01	38.00	-0.7
			S	01	45.00	
KSR	0.66	319	eP	01	40.50	-0.2
			S	01	49.00	
BFS	0.75	225	eP	01	43.40	0.8
			S	01	51.90	
SLR	1.02	52	iPc	01	46.60	-0.7
			S	01	58.50	
SEK	1.96	174	iPd	02	02.00	0.2
			S	02	26.50	
SWZ	2.01	246	eP	02	02.20	-0.3
			S	02	27.00	
BFT	2.49	75	eP	02	10.50	1.1
			S	02	37.50	
BLF	2.93	201	eP	02	15.00	-0.6
			S	02	49.00	

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

MAY 17, 1993 11h 26m 29.32± 0.28s
48.303 N ± 5.7km 154.551 E ± 5.3km
DEPTH = 48.4km (7 depth phases)
5.0mb (42 obs.)
KURIL ISLANDS (221)

SKR	2.57	23	ePn	27	09.30	-0.1
			iS	27	35.30	
PET	5.39	27	ePn	27	49.00	-0.2
			eS	28	48.00	
KUR	5.52	239	ePn	27	55.00	3.9X
			eS	28	58.00	
YSS	8.09	265	iPnd	28	30.60	3.7X
Z	19s		0.50um			

17d 11h

	E 19s 0.40um					
	e	30 02.70				
KUSJ	8.63 237 eP	28 33.10	-1.2			
	eS	30 05.20				
ASAJ	9.26 248 iP+	28 47.70	4.8X			
HOOJ	9.89 237 eP	28 51.20	-0.4			
	eS	30 37.60				
MRRJ	11.15 243 eP	29 09.10	0.3			
MGD	12.02 351 ePn	29 20.00	-0.4			
AOMJ	12.74 238 eP	29 28.10	-1.9			
	eS	31 41.00				
OFUJ	13.09 230 eP	29 31.00	-3.7X			
	eS	31 50.10				
SMY	13.20 63 iPc	29 33.30	-2.7			
YAMJ	14.62 232 P	29 52.40	-2.3			
NIIJ	15.86 232 P	30 09.10	-1.6			
CHJJ	16.78 229 P	30 21.60	-0.7			
MAT	16.80 232 eP	30 22.00	-0.6			
	0.5s 10.56nm		4.2mb			
TSRJ	18.74 234 P	30 47.40	0.9			
YAK	19.57 324 eP	31 10.00	14.3X			
WKYJ	19.95 232 P	31 01.60	1.6			
YONJ	20.39 238 P	31 06.10	1.6			
TKSJ	20.96 234 P	31 11.40	1.1			
ILT	23.84 25 eP	31 37.80	-0.6			
	i	32 27.00				
BOD	25.70 307 eP	31 55.60	-0.6			
TIK	26.26 342 eP	32 15.00	13.8X			
	1.2s 16.00nm					
	e	32 32.00	74kmX			
IMA	31.98 37 iPc	32 51.97	-0.7			
	0.6s 3.03nm		4.3mb			
	e	33 05.91	56km			
ZAK	32.93 293 eP	33 00.50	-0.3			
	1.0s 8.00nm		4.5mb			
FBA	34.34 40 iPc	33 13.00	0.0			
	0.8s 18.28nm		5.1mb			
	epP	33 26.30	51km			
	esP	33 32.30				
KLU	35.35 46 eP	33 20.79	-0.9			
BALM	37.13 46 eP	33 36.95	0.3			
INK	39.82 34 eP	34 00.50	1.6			
	0.9s 3.00nm		4.1mb			
MBC	42.80 21 eP	34 24.00	0.7			
	0.6s 1.00nm		3.7mb X			
YKA	49.10 38 eP	35 12.90	-0.4			
	0.8s 4.80nm		4.6mb			
CHTO	53.42 257 iPc	35 47.90	1.4			
	0.8s 21.60nm		5.2mb			
GUN	55.84 275 P	36 04.00	-0.5			
	0.4s 12.00nm		5.3mb			
KKN	56.32 275 P	36 08.00	0.3			
	0.6s 24.00nm		5.4mb			
PKI	56.37 275 P	36 08.40	0.1			
	0 6s 20.00nm		5.3mb			
DMN	56.55 275 P	36 10.00	0.5			
GKN	56.60 276 P	36 09.60	-0.1			
	0.6s 30.00nm		5.5mb			
FCC	59.43 34 eP	36 34.00	5.1X			
LRM	59.49 54 eP	36 30.20	0.4			
	e	36 43.40	47km			
BW06	63.05 55 eP	36 54.24	0.4			
	0.9s 5.05nm		4.6mb			
	epP	37 06.97	44km			
FRB	63.26 20 eP	36 53.00	-1.6			
	0.7s 3.00nm		4.5mb			
DAU	63.68 58 eP	36 59.05	1.0			
MSU	64.42 60 eP	37 03.29	0.4			
	epP	37 16.59	47km			
ULM	64.71 42 eP	37 08.50	4.2X			
RSSD	65.08 51 eP	37 06.90	-0.2			
	0.6s 8.82nm		5.0mb			
	epP	37 20.38	47km			
GLA	66.55 66 eP	37 16.75	0.4			
NB2	67.07 342 P	37 18.80	-0.4			
	0.7s 2.90nm		4.4mb			
HFS	67.34 340 eP	37 19.20	-1.7			
	0.4s 2.10nm		4.6mb			
Z	18s 54.00um		6.8Msz			
	LR	04 00.00				
HYB	67.93 272 ePc	37 25.50	0.3			
	0.8s 38.50nm		5.5mb			
GBA	71.41 270 P	37 47.00	0.5			
ASPA	74.00 200 iPc	38 03.20	1.8			
	0.5s 9.30nm		5.0mb			
EEO	74.53 35 eP	38 06.00	1.7			
CLL	75.44 336 i(P)	38 09.20	-0.2			
LTX	75.89 62 eP	38 11.28	-1.2			
	epP	38 24.95	47km			
GAC	76.67 33 eP	38 17.00	0.6			
KHC	77.25 335 eP	38 21.00	1.3			
GEC2	77.48 335 P	38 21.00	0 0			
	0.5s 0.68nm		4.0mb			
CDF	79.58 339 eP	38 32.10	-0.4			
RBL	79.69 334 P	38 32.70	-0.3			
LMN	80.12 27 eP	38 38.50	3.2X			
FLN	80.93 344 eP	38 39.30	-0.2			
	1.1s 29.80nm		5.1mb			
LDF	81.02 343 eP	38 39.60	-0.4			
	0.8s 10.75nm		4.8mb			
GRR	81.36 344 eP	38 40.90	-0.8			
	0.7s 11.25nm		4.9mb			
LOR	81.45 340 eP	38 42.00	-0.3			
	1.1s 20.25nm		5 0mb			
LBF	81.69 340 eP	38 43.10	-0.5			
	0.7s 4.20nm		4.5mb			
SSF	81.73 340 eP	38 43.60	-0.1			
	0.8s 10.05nm		4.9mb			
LPF	81.74 344 eP	38 43.00	-0.7			
	1.3s 27.10nm		5.1mb			
AVF	82.02 340 eP	38 45.20	0.0			
	0.9s 15.05nm		5.0mb			
SMF	82.05 340 eP	38 45.30	-0.1			
	0.9s 11.80nm		4.9mb			
HRI	82.13 312 eP	38 46.90	0.7			
BGF	82.35 341 eP	38 46.80	-0.2			
	0.6s 7.20nm		4.9mb			
BOB	82.39 336 P	38 48.30	1.0			
LPL	82.41 338 eP	38 48.30	0.7			
	0.8s 11.55nm		5.0mb			
LPG	82.43 338 eP	38 48.40	0.7			
	0.8s 12.35nm		5.0mb			
PGD	82.57 334 P	38 50.00	1.7			
MAF	82.73 341 eP	38 49.50	0.5			
	1.0s 27.80nm		5.2mb			
TCF	82.75 341 eP	38 48.50	-0.6			
	1.0s 12.40nm		4.9mb			
LSF	82.93 342 eP	38 50.10	0.1			
	1.1s 33.70nm		5.3mb			
MFF	82.94 343 eP	38 49.40	-0.6			
	1.0s 16.00nm		5.0mb			
DSI	83.68 311 eP	38 54.70	0.7			
SBF	83.77 337 eP	38 54.20	-0.2			
	0.9s 19.50nm		5.1mb			
RJF	83.83 341 eP	38 54.80	0.2			
	1.0s 13.20nm		4.9mb			
CAF	84.07 341 eP	38 56.40	0.5			
	1.1s 21.75nm		5.1mb			
LRG	84.43 337 eP	38 58.00	0.4			
	0.9s 24.10nm		5.3mb			
LPO	84.49 341 eP	38 57.70	-0.2			
	0.8s 5.65nm		4.7mb			
LMR	84.51 337 eP	38 58.20	0.2			
	1.3s 44.05nm		5.4mb			
PGF	84.57 335 eP	38 58.20	-0.3			
	0.7s 5.20nm		4.7mb			
MBH	85.39 311 eP	39 03.40	0.7			
	S.D. = 0.9 on 80 of 89 obs.					

	MAY 17, 1993 11h 35m 03.06± 0.34s					
	48.268 N ± 7.0km 154.622 E ± 6.1km					
	DEPTH = 45.1km (7 depth phases)					
	4.7mb (20 obs.)					
	KURIL ISLANDS				(221)	
SKR	2.59 21 ePn	35 43.30	-0.1			
	eS	36 11.30				
PET	5.40 27 ePn	36 24.00	0.9			
	eS	37 22.00				
KUR	5.55 239 ePn	36 29.00	3.8X			
	iS	37 32.50				
KUSJ	8.65 237 eP	37 07.60	-0.8			
	eS	38 39.00				
ASAJ	9.29 248 eP	37 21.90	4.7X			
HOOJ	9.91 238 eP	37 25.20	-0.6			
	eS	39 12.90				
MGD	12.06 351 ePn	37 54.00	-0.9			
OFUJ	13.11 230 eP	38 05.10	-3.7X			
SEY	14.72 356 eP	38 39.00	9.2X			
MAT	16.82 232 eP	38 56.00	-0.8			
	0.7s 6.85nm		3.9mb			
ILT	23.85 25 eP	40 11.00	-1.5			
BOD	25.76 307 eP	40 46.00	15.2X			
	1.0s 10.00nm					
TIK	26.31 342 eP	40 52.00	16.2X			
	1.6s 13.00nm					
	e	41 04.00	47km			
IMA	31.98 37 ePc	41 25.79	-0.9			
	0.8s 1.49nm		3.9mb			
	e	41 39.07	52km			
ZAK	32.99 293 eP	41 35.00	-0.4			
FBA	34.34 40 ePc	41 46.77	-0.3			
	0.7s 4.93nm		4.5mb			
KLU	35.34 46 eP	41 55.04	-0.7			
INK	39.82 33 eP	42 35.00	2.0			
	1.0s 3.00nm		4.1mb			
MBC	42.82 21 eP	42 57.50	0.0			
YKA	49.10 38 eP	43 46.80	-0.6			
	0.8s 2.60nm		4.3mb			
CHTO	53.46 257 ePc	44 21.80	0.9			
	0.8s 12.08nm		5.0mb			
GUN	55.89 275 P	44 38.00	-0.9			
KKN	56.37 275 P	44 43.40	1.2			
PKI	56.42 275 P	44 43.40	0.6			
DMN	56.60 275 P	44 43.80	-0.2			
	0.6s 15.00nm		5.2mb			
GKN	56.65 276 P	44 43.80	-0.4			
	0.6s 14.00nm		5.2mb			
FCC	59.43 34 eP	45 08.50	5.5X			
LRM	59.47 54 eP	45 04.00	0.2			
BW06	63.03 55 ePc	45 27.85	0.0			
	1.0s 4.04nm		4.5mb			
	e	45 40.52	44km			
ULM	64.71 42 eP	45 43.00	4.6X			
SRU	64.95 59 (P)	45 38.47	-1.9			
RSSD	65.07 51 ePc	45 41.19	0.1			
	0.5s 4.65nm		4.8mb			
	pP	45 54.31	46km			
PV10	66.30 59 ePd	45 49.95	0.9			
	pP	46 01.78	40km			
PV08	66.38 58 (P)	45 49.81	0.1			
	pP	46 02.35	43km			
GBA	71.46 270 P	46 20.70	-0.2			
	0.7s 2.00nm		4.2mb			
ASPA	73.98 200 iPc	46 37.00	1.6			
	1.2s 4.50nm		4.3mb			
LTX	75.86 62 eP	46 45.84	-0.6			
	pP	46 58.83	45km			
LOR	81.50 340 eP	47 16.50	-0.2			
LBF	81.74 340 eP	47 17.70	-0.3			
	0.8s 5.10nm		4.6mb			
SSF	81.78 341 eP	47 18.90	0.8			
AVF	82.07 341 eP	47 19.70	0.1			
	0.7s 5.85nm		4.7mb			
SMF	82.10 340 eP	47 19.80	0.0			
BGF	82.40 341 eP	47 21.40	0.0			
LPL	82.46 338 eP	47 22.70	0.7			
	1.0s 9.00nm		4.8mb			
LPG	82.48 338 eP	47 22.90	0.7			
	0.6s 4.70nm		4.7mb			
MAF	82.78 341 eP	47 23.90	0.5			
	1.1s 16.35nm		5.0mb			
TCF	82.80 341 eP	47 23.60	0.1			
	1.1s 12.95nm		4.9mb			
LSF	82.98 342 eP	47 24.60	0.2			
	1.0s 16.20nm		5.0mb			
LRG	84.48 337 eP	47 32.30	0.3			
	0.8s 13.15nm		5.1mb			
LMR	84.56 337 eP	47 32.70	0.3			
	S.D. = 0.8 on 42 of 50 obs.					

%	MAY 17, 1993 11h 59m 09.39± 1.14s					
	39.183 N ± 8.1km 27.802 E ±13.1km					
	DEPTH = 10.0km (geophysicist)					
	TURKEY				(366)	
	ML 2.8 (ISK).					
IZM	0.89 208 ePn	59 26.50	0.0			
KCT	1.15 22 iPn	59 30.90	0.0			
EDC	1.16 2 ePn	59 31.50	0.4			
BNT	1.18 4 ePn	59 30.90	-0.4			
EZN	1.31 300 ePn	59 33.60	0.0			
	S.D. = 0.4 on 5 of 5 obs.					

•	MAY 17, 1993 12h 00m 51.32± 1.58s					
	51.284 N ±15.9km 15.820 E ± 7.8km					
	DEPTH = 10.0km (geophysicist)					
	POLAND				(548)	
	ML 3.2 (GRF), 3.1 (VIE).					
KSP	0.53 146 iPd	01 00.60	-1.5			

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U. S. DEPARTMENT OF THE INTERIOR

Geological Survey

EARTHQUAKE DATA REPORT

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

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

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

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

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

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

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

Hypocenter Symbols

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

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

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

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

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

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

References

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

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

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

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

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

0.6s 82.00nm
iS 01 08.60
i 01 15.00
BRG 1.25 252 iPg 01 16.20 1.6
iSg 01 36.20
PRU 1.53 213 ePn 01 18.90 0.2
Pg 01 20.30
Sn 01 38.30
eSg 01 42.80
CLL 1.77 272 iPn 01 20.30 -1.8
iPg 01 24.30
iSg 01 49.80
KHC 2.59 215 Pn 01 34.00 0.0
Pg 01 40.00
Sn 02 07.00
Sg 02 19.00
e 02 23.50
HOF 2.68 250 iPnc 01 35.30 0.0
MOX 2.73 258 ePg 01 43.70 7.7X
eSg 02 23.10
OJC 2.74 111 eP 01 37.50 1.3
eS 02 12.90
WET 2.85 223 iPnc 01 38.40 0.6
ZST 3.20 164 eP 02 08.30 25.7X
e 02 40.70
GRF 3.34 243 ePn 01 44.40 -0.3
e(Pg) 01 57.60
eSg 02 36.70
KBA 4.51 202 iPnc 02 01.40 0.0
i 02 09.60
iSg 03 17.70
S.D. = 1.2 on 10 of 12 obs.

MAY 17, 1993 12h 05m 26.06± 0.42s
0.615 S ± 8.6km 131.573 E ± 7.6km
DEPTH = 42.3km (5 depth phases)
5.0mb (21 obs.) 4.3Msz (2 obs.)
IRIAN JAYA REGION, INDONESIA (196)

CTB 10.69 317 eP 08 02.00 2 3
TSM 14.53 290 ePc 08 52.50 1 7
KKM 16.70 294 ePc 09 20.00 1.2
PGP 17.54 323 iPd 09 36.00 6.8X
PMG 17.80 120 eP 09 34.00 1.5
BCP 20.09 328 eP 10 02.00 2 8
BAG 20.10 328 eP 10 00.00 0.7
eS 13 42.00
OIS 21.32 159 eP 09 53.80 -17 9X
0.7s 3.00nm
epP 10 16.20 110kmX
eS 14 07.20
ASPA 23.03 175 eP 10 09.90 -18.7X
0.6s 7.00nm
Z 21s 1.50um 4.4Msz
epP 10 36.00 127kmX
eS 14 42.60
CTA 24.10 144 iPc 10 39.20 0.2
1 6s 100.00nm 5.1mb
id 10 46.00 24kmX
eS 15 00.00
LEM 24.68 255 iPc 10 45.20 0.4
IPM 30.95 280 ePd 11 40.00 -1.7
0.9s 82.00nm 5.5mb
STK 32.51 164 eP 11 54.50 -0.6
0.9s 6.80nm 4.5mb
LOE 34.42 303 eP 12 11.50 -0.3
NST 35.02 299 eP 12 16.50 -0 5
ARMA 35.24 149 iPc 12 18.90 0 1
0.7s 12.00nm 4.9mb
kHT 36.03 296 eP 12 25.80 0.2
CHTO 37.41 303 eP 12 37.20 0 0
0.9s 20.03nm 5.0mb
eSg 22 19.80
MAT 37.48 9 eP 12 35.00 -2.5
1.0s 8.00nm 4.6mb
eS 18 22.00
TOO 38.95 162 eP 12 53.40 3.5X
BJI 42.84 343 eP 13 05.50 -16 2X
Z 20s 0.36um 4.3Msz
eS 19 44.00
eSS 22 56.00
YSS 48.43 10 ePc 14 05.00 -1 1
1.0s 30.00nm 5.3mb
e 21 05.00
CIT 54.57 346 eP 14 50.00 -2 4
HYB 55.17 292 eP 14 55.00 -2 3
1.0s 60.00nm 5.6mb
GBA 55.45 287 P 14 56.80 -2.4
ZAK 56.25 339 eP 15 13.00 8.6X
1.0s 10.00nm 4.8mb
PET 58.03 19 eP 15 17.00 0.0
1.0s 70.00nm 5.7mb
MOY 58.16 338 eP 15 18.10 0.2
BOD 59.92 349 eP 15 38.80 8.8X
1.6s 16.00nm 4.9mb
MGD 62.37 11 eP 15 46.00 -0.5
1.0s 30.00nm 5.4mb
e 16 00.00 50km
e 16 26.00
e 18 00.00
eS 24 10.00
e 25 26 00
eSSS 31 00.00
YAK 62.48 359 eP 15 46.00 -1.2
1.5s 40.00nm 5.3mb
ELT 65.54 332 eP 16 07.00 -0.3
2.0s 37.00nm 5.1mb
eS 24 50.00
FRU 66.80 318 eP 16 16.00 0.3
e 16 24.00 26kmX
e 16 32.00
TIK 72.15 359 eP 16 47.00 -0.8
1.4s 22.00nm 4.9mb
e 16 58.00 36km
e 26 11.00
NRI 75.71 345 eP 17 08.00 -0.6
e 17 22.00 49km
ILT 76.42 17 iPc 17 12.50 -0.1
1.2s 21.00nm 5.0mb
i 17 23.00 34km
SVE 80.17 328 ePd 17 27.00 -6.3X
SVW 82.29 28 ePc 17 46.09 1.7
TTA 82 60 26 eP 17 47.31 1.2
1.2s 7.76nm 4.6mb
e 18 00.11 43km
IMA 84.40 23 ePc 17 56.30 1.1
1.2s 7.34nm 4.7mb
SLKM 84 73 29 ePc 17 56.95 0.1
PMR 85 44 28 ePd 18 00.50 0.2
1.2s 28.24nm 5.3mb
KLU 86.95 28 ePc 18 08.93 1.1
SPA 89.38 180 ePd 18 19.90 0.4
1.0s 7.50nm 5.0mb
KIV 89 62 314 eP 18 32.80 11.8X
1.2s 9 00nm
INK 92.39 22 eP 18 34.00 0.9
MBC 95.08 13 eP 18 45.00 -0.4
YKA 101.36 26 ePdiff 19 13.30 -0.6
0.8s 0.50nm 4.2mb
CNCB 154.08 133 PKP 25 23.00 7.0X
LPB 154.18 132 ePKP 25 30.00 14.0X
ZOBO 154.32 132 PKP 25 22.00 5.6X
S.D. = 1.3 on 39 of 51 obs.

? MAY 17, 1993 12h 42m 30.85± 0.53s
24.363 N ± 8.0km 126.531 E ± 9.8km
DEPTH = 33.0km (normol)
4.7mb (24 obs.) 4.7Msz (1 obs.)
RYUKYU ISLANDS (238)
Felt on Iriomote-jima.

SSE 8.21 326 P 44 29.00 -1.6
0.6s 8.00nm 5.0mb
Z 12s 5.00um 5.2MszX
N 10s 2.70um
E 10s 1.70um
eS 46 40.00
MAT 15.75 37 (P) 46 18.00 6.1X
1.0s 10.00nm 3.9mb
eS 49 19.00
BJI 17.90 333 eP 46 38.00 -0.8
1.0s 20.00nm 4.2mb
Z 16s 1.17um 4.1Msz
N 12s 0.92um
eS 50 12.00
KMI 21.62 277 Pc+ 47 21.00 0.6
1.5s B0.00nm 4.9mb
pP 47 30.00 33kmX
TSM 21.63 204 ePd 47 20.30 0.0
YSS 26.05 26 ePc 48 04.00 1.2
0.9s 50.00nm 5.1mb
Z 17s 0.50um 4.1MszX
N 17s 0 40um
e 48 09 10
CIT 29.31 344 eP 48 32.00 -0.5
GUN 36.55 285 P 49 36.40 0.5
0.4s 10.00nm 5.1mb
PKI 36.99 284 P 49 39.60 0.0
KKN 37.09 284 P 49 40.60 0.3
0.6s 14.00nm 5.0mb
DMN 37.26 284 P 49 42.00 0.3
GKN 37.64 285 P 49 45.20 0.4
0.6s 14.00nm 5.0mb
YAK 37.70 2 eP 49 42.00 -2.7
1.5s 30.00nm 4.9mb
ELT 41.75 324 eP 50 16.50 -1.8
0.9s 7.00nm 4.4mb
WB2 44.69 170 iPc 50 41.20 -1.4
0.8s 14.30nm 4.9mb
FRU 46.24 307 eP 50 55.00 0.2
Z 16s 0.80um 4.8MszX
E 16s 1.00um
QIS 46.43 163 eP 51 00.90 4.5X
0.8s 7.00nm 4.7mb
TIK 47.32 1 iPd 51 02.00 -0.8
1.6s 39.00nm 5.2mb
e 51 09.00
ASPA 48.28 171 iPd 51 09.60 -1.3
0.8s 5.90nm 4.7mb
ILT 54.63 22 eP 52 00.50 2.2
1.0s 22.00nm 5.1mb
i 52 07.00
SVE 56.81 323 ePd 52 14.00 -0.1
Z 19s 0.60um 4.7Msz
N 17s 0.50um
E 17s 0.40um
IMA 63.87 27 eP 53 03.91 1.6
1.4s 7.34nm 4 6mb
i 53 08.66
PWA 65.85 31 eP 53 21.90 6.9X
FBA 66.40 28 eP 53 22.86 4.4X
0 6s 1.28nm 4.2mb
KIV 69.24 310 eP 53 37.40 0.6
1.3s 15.00nm 4.9mb
e 53 44.50
e 54 09.20
MOS 69.63 323 eP 53 38.00 -0.7
e 53 43.00
INK 71.20 23 eP 53 55.00 6.9X
1.0s 3.00nm 4.3mb
MBC 71.99 13 eP 53 52.50 -0.2
0.8s 2.00nm 4.2mb
DAG 76.91 352 eP 54 20.80 -0.2
1.1s 5.06nm 4.5mb
UPP 78.17 331 iP 54 28.10 0.0
VRI 79.34 316 eP 54 37.00 2.1
MLR 80.00 315 eP 54 40.00 1.4
NB2 80.30 333 P 54 39.40 -0.4
0.9s 4.80nm 4.5mb
YKA 80.86 24 eP 54 42.10 -0.5
0.8s 2.20nm 4.2mb
SKO 84.48 314 eP 55 02.50 0.8
BRG 84.52 324 eP 55 05.00 3.3X
CLL 84.79 325 eP 55 08.00 5.0X
KHC 85.66 323 eP 55 12.50 5.0X
e 55 27.00
GEC2 85.74 322 P 55 09.00 1.0
0.8s 1.97nm 4.4mb
e 55 12.00
e 55 16.20
e 55 17.50
S.D. = 1.2 on 31 of 39 obs.

MAY 17, 1993 13h 18m 41.33± 0.43s
78.000 N ± 7.8km 126.367 E ± 7.6km
DEPTH = 10.0km (geophysicist)
4.4mb (14 obs.)
EAST OF SEVERNAYA ZEMLYA, RUSSIA(654)

TIK 6.44 173 iPd 20 15.50 -2.8
0.7s 18.00nm 5.1mb
NRI 13.41 251 eP 21 50.00 -3.9X
1.5s 18.00nm 4.9mb
e 24 23.00
YAK 16.10 174 eP 22 31.00 2.1
SEY 17.18 137 eP 22 46.00 3.5X
ILT 18.08 93 iPd 22 54.00 0.4
1.6s 14.00nm 3.8mb
Z 16s 0.70um 4.7Msz
E 16s 0.30um
MGD 19.66 142 eP 23 18.00 5.3X

17d 13h

	1.0s	20.00nm		4.4mb		
	Z 14s	0.30um		4.1MszX		
BOD	20.66	199 eP	23	22.60	-0.6	
	1.3s	43.00nm		4.6mb		
MBC	21.74	36 eP	23	34.50	0.4	
	1.0s	3.00nm		3.7mb		
IMA	24.81	73 (P)	24	05.11	0.8	
	0.7s	1.77nm		3.8mb		
CIT	26.52	198 eP	24	21.00	0.6	
FBA	27.01	70 (P)	24	24.91	0.3	
	1.4s	7.07nm		4.2mb		
NVS	27.63	239 iPc	24	29.60	-0.7	
	1.6s	20.00nm		4.6mb		
		i	25	33.50		
MOY	28.00	215 eP	24	34.00	0.3	
ZAK	29.02	211 eP	24	50.00	7.1X	
	1.2s	10.00nm		4.5mb		
YSS	31.73	159 eP	25	08.00	1.0	
YKA	35.02	45 eP	25	34.00	-1.3	
	0.6s	0.40nm		3.5mb		
BJI	38.31	193 eP	26	04.50	1.3	
	Z 14s	0.47um		4.5MszX		
FRU	40.74	242 eP	26	23.00	-0.4	
KIV	46.13	275 eP	27	08.20	1.1	
	1.1s	15.00nm		4.9mb		
GEC2	47.09	304 P	27	15.50	0.8	
	1.5s	4.43nm		4.3mb		
		e	27	24.20		
GRS	49.65	270 eP	27	35.00	0.3	
	1.1s	20.00nm		5.0mb		
GUN	53.40	226 P	28	03.20	-0.2	
GKN	53.50	227 P	28	03.60	-0.3	
KKN	53.61	226 P	28	04.60	-0.1	
PKI	53.81	226 P	28	04.80	-1.5	
DMN	53.82	226 P	28	06.60	0.3	
MSU	58.62	52 eP	28	40.88	0.2	
LTX	68.95	46 eP	29	46.22	-2.1	
	S.D. = 1.2	on 24 of 28 obs.				

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* MAY 17, 1993 13h 23m 33.98± 0.57s
49.311 S ±12.8km 121.435 E ±11.2km
DEPTH = 10.0km (geophysicist)
4.8mb (9 obs.)
SOUTH OF AUSTRALIA (437)

TAU	19.00	80 eP	27	58.00	0.1	
ADE	19.16	48 ePd	27	58.70	-1.3	
TOO	20.94	65 iPc	28	20.40	1.2	
	0.6s	79.00nm		5.3mb		
MEEK	22.74	353 eP	28	37.40	0.1	
STK	23.06	48 eP	28	41.20	0.8	
	0.7s	4.00nm		4.1mb		
		i	28	48.00		
ASPA	27.41	25 iPc	29	21.00	-0.6	
	1.1s	12.40nm		4.6mb		
WRA	31.07	24 P	29	53.80	-0.5	
	0.8s	2.40nm		4.1mb		
WB2	31.07	24 eP	29	53.40	-1.0	
	1.0s	4.20nm		4.3mb		
QIS	32.15	33 iPd	30	09.10	5.3X	
	0.7s	4.00nm		4.5mb		
NVL	50.16	204 eP	32	30.00	-1.0	
IPM	56.53	335 ePc	33	17.70	-1.0	
KMI	75.95	343 Pc	35	24.50	1.7	
	1.5s	50.00nm		5.4mb		
		pP	35	32.00	24kmX	
BUL	76.79	255 eP	35	27.00	-0.6	
PKI	83.01	328 PKP	36	00.60	-0.2	
DMN	83.14	328 PKP	36	04.20	2.7	
GUN	83.16	329 PKP	36	01.60	0.0	
	0.8s	28.00nm		5.5mb		
KKN	83.25	328 PKP	36	01.80	-0.1	
GKN	83.67	328 PKP	36	04.00	0.0	
	0.8s	16.00nm		5.3mb		
IMA	131.80	33 ePKP	42	46.03	-1.7	
INK	139.91	34 ePKP	43	10.50	7.8X	
MSU	140.67	85 (PKP)	43	06.45	1.1	
LRM	144.12	75 ePKP	43	10.60	-0.5	
MBC	144.15	21 ePKP	43	08.50	-1.4	
	1.0s	3.00nm				
BW06	144.58	81 ePKPc	43	09.66	-2.3	
GOL	145.76	88 ePKPc	43	14.89	0.8	
YKA	147.08	45 ePKP	43	16.40	1.3	
	0.7s	6.70nm				
MEO	147.34	101 iPKPc	43	19.00	2.5	
DAG	148.38	344 ePKP	43	21.30	4.4X	
	1.0s	8.00nm				

S.D. = 1.3 on 25 of 28 obs.

% MAY 17, 1993 13h 40m 52.74± 0.65s
26.371 S ± 5.8km 27.430 E ± 6.5km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.8 (PRE).

PRY	0.56	176 iPd	41	03.50	-0.4	
		S	41	09.70		
KSR	0.70	316 iPd	41	06.00	-0.7	
		S	41	14.00		
BFS	0.78	228 eP	41	09.20	0.7	
		S	41	19.20		
SLR	0.99	51 eP	41	11.90	-0.2	
		S	41	24.00		
SEK	1.95	175 iPc	41	27.00	0.0	
		S	41	51.50		
SWZ	2.05	246 eP	41	29.40	1.0	
		S	41	53.60		
BFT	2.45	74 eP	41	35.00	0.8	
		S	42	04.00		
BLF	2.94	202 eP	41	40.00	-1.2	
		S	42	15.00		
	S.D. = 0.9	on 8 of 8 obs.				

MAY 17, 1993 15h 03m 47.10± 0.38s
5.665 S ± 7.1km 152.533 E ± 9.9km
DEPTH = 19.8km (2 depth phases)
4.5mb (10 obs.)
NEW BRITAIN REGION, P.N.G. (192)

RAB	1.51	346 iPd	04	13.00	-0.2	
		iS	04	31.00		
PMG	6.50	235 eP	05	25.00	0.9	
		eS	06	37.00		
QIS	19.41	219 eP	08	21.00	5.8X	
	0.9s	4.00nm		3.7mb		
DZM	21.14	142 iPd	08	33.30	-0.2	
		iS	09	23.00		
WB2	22.67	230 eP	08	47.70	-1.0	
	0.4s	11.90nm		4.7mb		
WRA	22.68	230 P	08	48.20	-0.6	
ASPA	25.34	223 iPd	09	14.50	0.0	
	0.5s	14.80nm		4.9mb		
STK	28.02	200 eP	09	39.40	0.4	
	0.6s	0.90nm		3.7mb		
SVW	77.71	23 eP	15	44.50	0.5	
	0.9s	14.64nm		5.0mb		
TTA	78.67	21 eP	15	49.58	0.3	
	0.8s	3.53nm		4.5mb		
SLKM	79.56	25 eP	15	53.84	-0.3	
PMR	80.58	24 eP	15	58.45	-1.0	
	0.8s	6.05nm		4.7mb		
		e	16	04.59	19km	
IMA	81.36	19 eP	16	03.48	-0.2	
	0.7s	1.36nm		4.1mb		
KLU	81.87	25 ePc	16	06.45	0.1	
FBA	82.78	22 eP	16	09.73	-1.2	
	0.7s	4.84nm		4.7mb		
		e	16	16.09	20km	
BALM	83.22	26 eP	16	13.81	0.4	
INK	89.35	21 eP	16	45.00	1.8	
YKA	96.31	28 eP	17	15.30	0.0	
	0.9s	0.70nm		4.1mb		
	S.D. = 0.8	on 17 of 18 obs.				

? MAY 17, 1993 15h 32m 17.25± 6.39s
44.395 N ±42.6km 12.470 E ±16.9km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

RSM	0.47	182 P	32	27.00	0.3	
		eSg	32	29.20		
SFI	0.65	223 P	32	30.50	0.3	
		eSg	32	35.60		
PGD	0.75	226 P	32	32.10	0.1	
		eSg	32	37.70		
CRE	0.85	206 P	32	33.20	-0.6	
		eSg	32	39.50		
ARV	0.96	159 P	32	35.50	0.0	
		eSg	32	46.50		
	S.D. = 0.5	on 5 of 5 obs.				

? MAY 17, 1993 15h 57m 58.00± 1.25s
6.567 N ±40.2km 72.847 W ±32.2km
DEPTH = 182.9 ± 21.7 km
NORTHERN COLOMBIA (99)

FUO	1.40	219 iP	58	30.00	0.0	
BOG	2.28	212 eP	58	44.00	4.9X	
		eS	59	10.00		
SDV	3.18	43 iPnc	58	49.80	0.1	
		iSn	59	28.00		
TOV	4.40	43 ePd	59	04.90	-0.1	
		iPP	59	05.30		
		iSn	59	54.90		
CEOS	5.10	61 iPd	59	14.10	0.0	
YKA	63.59	340 eP	08	11.10	0.0	
	0.6s	1.60nm		4.1mb		
	S.D. = 0.2	on 5 of 6 obs.				

MAY 17, 1993 16h 02m 53.12± 0.11s
5.343 S ± 3.0km 151.985 E ± 3.1km
DEPTH = 17.3km (geophysicist)
5.7mb (66 obs.) 6.3Msz (56 obs.)
NEW BRITAIN REGION, P.N.G. (192)
Mw 6.3 (GS), 6.4 (HRV). Ms 6.5 (BRK). Mo=3.6*10**18 Nm (PPT). Felt (I) at Rabaul. Two events about 1.6 seconds apart. Depth from broadband displacement seismograms, based on first event.
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 65 Dip=65 Slip= 65
NP2: 293 35 132
Principal Axes:
T Plg=62 Azm=296
P 16 173
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting with a moderate strike-slip component The preferred fault plane is NP2.
RADIATED ENERGY
No. of sta: 12 Focal mech. F
Energy 1.7±0 3*10**12 Nm
MOMENT TENSOR SOLUTION
Dep 16 No. of sta: 26
Moment Tensor; Scale 10**18 Nm
Mrr= 2.05 Mtt=-1.77
Mff=-0.27 Mrt= 2.02
Mrf= 1.13 Mtf=-0.65
Principal axes:
T Val= 3.11 Plg=65 Azm=325
N -0.06 4 65
P -3.05 24 156
Best Double Couple:Mo=3.1*10**18
NP1:Strike=256 Dip=21 Slip= 102
NP2: 63 69 85
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 42S, **C M.W.: 31S, 54C
Centroid Location:
Origin Time 16:03: 2.2 0.1
Lat 5.45S 0.01 Lon 152.26E 0.01
Dep 23.4 0.4 Half-duration 4.0
Moment Tensor; Scale 10**18 Nm
Mrr= 2.64 0.03 Mtt=-2.44 0.02
Mff=-0.21 0.02 Mrt= 3.29 0.09
Mrf= 1.37 0.06 Mtf=-1.01 0.02
Principal Axes:
T Val= 4.40 Plg=64 Azm=336
N 0.18 1 68
P -4.59 26 158
Best Double Couple:Mo=4.5*10**18
NP1:Strike=250 Dip=19 Slip= 92
NP2: 68 71 89

RAB	1.16	9 Pd-	03	18.00	3.7X	
MDG	6.18	271 eP	04	34.00	8.2X	
PMG	6.26	230 eP	04	29.00	2.0	
		eS	05	45.00		
MNDI	8.32	264 eP	05	11.00	14.8X	
HNR	8.88	118 eP	05	03.50	-0.1	
CTA	15.68	200 iPd-	06	35.70	0.8	
		ic	06	40.50		
		i	06	49.00		
		e	07	20.00		
		iS	09	21.00		
CTAO	15.68	200 iPd	06	35.51	0.6	
QIS	19.32	217 eP	07	26.30	5.8X	

| | | |

17d 16h

				iS	24	18.00						eSSS	36	07.09			DPW	93.80	42	ePc	16	10.94	0.3
				iPS	25	08.00						eSg	39	39.09			PLM	93.86	57	eP	16	12.32	0.9
GBA	76.33	285	Pc	14	43.00	-0.5						eLR	43	48.09			TNP	93.88	52	eP	16	11.29	-0.1
KDC	77.05	27	eP	14	45.50	-1.2	ONR	89.93	43	P	15	53.65	0.9				0.8s	24.43nm				5.7mb	
SVW	77.63	23	eP	14	50.49	0.5	KMOR	89.96	44	P	15	53.67	0.7			GSC	94.04	55	ePc	16	13.29	1.3
	0.9s	348.46nm				6.4mb	GCC	90.01	53	ePc	15	54.50	1.2			NEW	94.54	42	eP	16	13.83	-0.2
		e		15	09.32	69kmX	STW	90.17	42	P	15	54.87	1.1				1.0s	89.46nm				6.1mb
TIK	78.31	353	iPc+	14	51.00	-2.4	BMW	90.25	43	ePc	15	54.84	0.5				Z 19s	32.13um				6.8Msz
	1.4s	52.00nm				5.4mb	MHC	90.33	53	ePc	15	55.14	0.2			TPNV	94.59	53	ePc	16	15.77	1.2
	Z 19s	7.00um				6.0Msz		Z 21s	23.00um				6.6Msz				0.8s	35.49nm				5.8mb
		eS		25	03.00							eSKS	26	25.14				Z 19s	9.38um				6.3Msz
RSO	78.42	25	ePc	14	53.22	-1.3						eS	26	40.14			MBC	94.83	14	eP	16	12.50	-2.2
TTA	78.57	22	ePc	14	55.00	-0.1						ePS	27	58.14			MAIO	95.13	306	iPc	16	17.00	0.0
CP2	79.07	24	eP	14	56.99	-1.0						eSS	32	57.14						i	20	07.00	
CRP	79.10	24	eP	14	56.44	-1.7						eLQ	39	59.14						eS	26	12.00	
NDI	79.30	300	iPd	15	00.00	0.3						eLR	44	07.14			SVE	95.17	326	ePd	16	16.50	-0.1
	0.9s	75.63nm				5.7mb	PGC	90.38	41	eP	15	55.00	0.3				Z 20s	18.00um				6.5Msz
SLKM	79.50	25	ePc	14	59.04	-1.1		1.0s	60.00nm				5.8mb				N 20s	1.50um				
ELT	80.09	326	eP	15	02.60	-0.7	ARN	90.41	53	eP	15	55.24	0.0				E 20s	12.00um				
	1.1s	40.00nm				5.3mb	SAO	90.42	53	eP	15	56.07	0.8					e		20	09.00	
	Z 17s	2.70um				5.7MszX		0.9s	10.58nm				5.1mb					ePS		28	51.00	
		eS		25	05.00			Z 22s	17.32um				6.4Msz					eSS		34	05.00	
		e		25	49.00		PRS	90.43	54	iPc	15	56.52	1.2			GLA	95.55	57	eP	16	20.88	1.9
PMR	80.51	25	eP	15	04.40	-1.1	SSOR	90.58	45	P	15	56.77	0.8			YKA	96.28	28	eP	16	21.90	0.3
	1.2s	406.50nm				6.3mb	L8FM	90.59	49	eP	15	56.85	0.7				1.0s	30.80nm				5.7mb
	Z 20s	14.00um				6.3Msz	ORV	90.68	51	iPc	15	56.85	0.5			ARU	96.29	326	eP	16	20.50	-1.2
PAF	80.61	221	eP	15	15.00	8.8X	GMW	90.68	42	eP	15	56.46	0.2				3.0s	140.00nm				5.9mb
		ePP		18	21.00		MCW	90.79	41	ePc	15	57.30	0.6				Z 21s	21.00um				6.6Msz
		eS		25	25.00		LLA	90.80	53	iPc	15	58.21	1.2				N 21s	5.00um				
		eSS		30	28.00		SHW	90.90	44	eP	15	58.02	0.6				E 21s	16.00um				
IMA	81.24	20	ePc	15	09.20	-0.2	PHAM	91.16	54	(P)	15	57.68	-1.0					e		16	30.00	30kmX
	1.0s	92.10nm				5.8mb	LON	91.25	43	iPc	15	58.18	-0.7					e		22	19.00	
PRZ	81.61	314	eP	15	14.00	2.1				ec	16	00.09	6kmX					e		26	55.00	
	1.6s	50.00nm				5.3mb				ed	16	05.38						e		28	58.00	
	Z 20s	10.80um				6.2Msz				ed	16	10.35						e		34	12.00	
	N 20s	5.90um					JCW	91.33	42	P	16	00.02	0.8			ARUT	96.86	53	ePc	16	25.97	1.0
	E 20s	11.90um					RMW	91.33	43	eP	15	59.46	0.2			HVU	97.44	49	eP	16	27.71	0.2
		e		26	22.00		ASR	91.34	44	P	15	59.93	0.5			LRM	97.68	45	eP	16	28.60	0.0
KLU	81.81	25	ePc	15	12.10	-0.3	BCH	91.35	55	eP	15	59.97	0.3			KAT	97.78	309	eP	16	28.00	-0.8
TLG	82.53	315	eP	15	18.00	1.5	CMB	91.39	52	ePc	16	00.26	0.5				Z 18s	3.60um				5.9Msz
	1.3s	113.00nm				5.8mb		Z 21s	24.00um				6.6Msz				N 18s	3.00um				
	E 20s	1.50um								ec	16	02.17					E 18s	3.00um				
		eSS		30	55.00					epPd	16	06.14	18kmX					e		20	25.00	
FBA	82.69	22	eP	15	15.20	-1.6				ed	16	12.60						e		27	06.00	
	0.9s	279.90nm				6.4mb				eSKS	26	30.68				MSU	97.87	52	eP	16	30.05	0.5
BALM	83.17	27	eP	15	18.35	-1.2				eS	26	44.68				DAU	98.58	50	eP	16	33.35	0.5
FRU	84.40	314	iPc	15	27.00	1.0				ePS	28	06.67				TUC	98.94	58	iPDIFc	16	36.24	1.9
	2.1s	280.00nm				6.1mb				e(PPS)	28	50.68					1.0s	6.02nm				5.1mb
	Z 20s	5.50um				5.9Msz				eSS	33	03.68					Z 18s	12.25um				6.4Msz
	E 20s	10.00um								eSSS	36	59.68						epPd	16	42.78	20kmX
		ePPP		20	32.00					eLQ	39	39.68				SRU	99.16	51	eP	16	34.87	-0.5
		eS		25	50.00					e	40	50.68				NVL	99.56	192	(P)	16	37.00	0.6
		ePS		27	00.00					eLR	44	36.68					Z 18s	9.00um				6.3Msz
		eSS		31	18.00		SBC	91.59	56	iPc	16	02.34	1.7				N 18s	7.00um				
SPA	84.69	180	iPc	15	26.50	-0.7				epPd	16	08.96	21kmX				E 18s	5.00um				
	0.9s	122.73nm				6.1mb	CROR	91.63	45	P	16	01.10	0.4					ePP		20	50.00	
MAW	84.76	203	P	15	28.00	0.7	FRI	91.83	53	iPc	16	02.84	1.2					ePPP		23	05.00	
	1.1s	54.35nm				5.7mb	VGB	91.84	45	eP	16	01.77	0.2					eSKS		27	08.00	
SIT	85.16	32	ePc	15	30.00	0.6	ABL	92.03	55	ePc	16	03.94	1.0					ePS		29	35.00	
	1.0s	185.80nm				6.3mb	EBG	92.12	43	P	16	03.75	0.9					eSS		34	40.00	
	Z 20s	25.00um				6.6Msz	ViP	92.27	50	P	16	02.25	-1.8					eSSS		38	25.00	
NRI	86.07	341	iPc+	15	32.40	-1.3	MMPM	92.42	53	ePc	16	05.70	0.8			PV10	100.33	52	ePdiff	16	40.68	-0.2
	2.0s	86.00nm				5.6mb	JBO	92.49	45	P	16	05.14	0.5			PV08	100.63	52	ePdiff	16	41.94	-0.4
		eS		26	00.00		MEMM	92.50	53	eP	16	06.09	1.4			ANMO	102.51	56	iPdiff	16	52.00	1.5
QUE	88.38	300	eP	15	46.20	0.2				e	16	18.55	41kmX					ec		16	53.90	
		eS		26	29.70		WTV	92.61	43	P	16	05.55	0.4					epPd		16	57.79	
KMPM	88.79	49	eP	15	48.73	1.1	RPV	92.61	57	iPc	16	06.92	1.6			GOL	103.12	51	ePdiff	16	54.17	0.9
EKR	88.81	49	eP	15	49.37	1.8				ec	16	08.74	6kmX					ec		16	55.41	
ARC	88.89	49	eP	15	47.89	0.0				ed	16	12.72				GLD	103.23	51	(Pdiff	16	53.63	0.0
	Z 17s	12.00um				6.4MszX	ISA	92.71	55	iPc	16	06.49	0.6				0.9s	18.48nm				5.8mb
		eLR		44	05.89			1.1s	19.58nm				5.4mb				Z 22s	15.22um				6.5Msz
FOX	88.90	49	eP	15	49.53	1.5				ec	16	08.56				SHE	103.59	310	ePdiff	16	53.00	-1.9
FHC	88.95	49	eP	15	49.26	1.0				epPd	16	11.54	16kmX				1.6s	60.00nm				6.1mb
INK	89.25	21	eP	15	50.00	0.9	WAH2	92.79	43	P	16	07.06	1.2				Z 18s	7.00um				6.2Msz
	1.0s	41.00nm				5.7mb	SAW	92.98	43	P	16	07.27	0.5				E 18s	8.00um				
RNO	89.55	46	P	15	51.95	0.8	BONR	93.02	52	eP	16	07.98	0.4					i		21	16.00	
LGPM	89.83	49	ePc	15	53.46	0.9				e	16	20.65	42kmX			RSSD	103.73	46	ePdiff	16	55.40	-0.4
STAN	89.91	53	ePc	15	52.71	-0.1	CRZF	93.11	223	eP	16	14.00	6.6X				0.8s	12.91nm				5.8mb
	Z 21s	20.00um				6.5Msz				ePP	20	07.00				GRS	105.45	309	ePdiff	17	08.00	4.5X
		eS		26	11.71					eS	26	57.00				TAB	105.60	308	ePdiff	17	05.00	0.8
		eLR		43	47.71					eSP	28	24.00						i		21	31.00	
BKS	89.92	52	eP	15	51.09	-1.8				eSS	33	33.00				KEV	106.58	343	ePdiff	17	04.00	-3.5X
	Z 21s	23.00um				6.6Msz	SSK	93.23	56	eP	16	09.31	0.8			FCC	106.82	30	ePdiff	17	16.00	7.2X
		eSKS		26	21.09		KVN	93.26	51	eP	16	09.32	0.8			PYA	107.28	314	ePdiff	17	11.00	-0.3
		eS		26	37.09		LNOR	93.61	44	P	16	10.22	0.5			KIV	107.55	314	ePdiff	17	15.60	2.9X
		ePS		27	55.09		PEC	93.65	56	ePc	16	11.29	1.1			KIV	107.55	314	ePdiff	17	11.03	-1.6
		eSS		32	37.09			1.3s	95.15nm				6.0mb					ed		17	18.31	

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ULM	108.17	39	ePdiff	17	21.00	5.9X		1.0s	80.00nm					CBM	126.11	33	ePKP	21	55.25	-1.0
ACO	108.29	53	iPKPd	21	18.90	-3.7X	LSZ	120.69	249	iPKPd	21	47.00	0.2		Z 18s	12.76um				6.6Msz	
OBN	108.73	327	(PKP)	21	26.00	3.3X	CER	120.96	226	ePKP	21	45.00	-1.8	EKA	126.31	343	PKP	21	56.00	-0.4
	Z 21s	4.80um				6.0Msz		1.0s	80.00nm						1.2s	37.70nm				
	N 21s	3.80um					BLE	121.13	225	iPKPc	21	47.00	0.0	ENN	126.59	334	ePKPc	21	57.00	0.0
	E 24s	11.00um						1.0s	40.00nm						1.0s	50.00nm				
		iPP	21	48.00			GOGA	121.53	54	ePKP	21	47.59	-0.2	MIM	126.60	35	(PKP)	21	56.51	-0.7
		(PPP)	24	17.00				Z 19s	10.53um			6.5Msz		RTRS	126.88	134	ePKPc	21	59.60	1.4
		(SKP)	25	08.00			KSP	121.55	329	ePKPc	21	47.40	0.1	CTI	126.89	326	PKP	21	57.60	-0.4
		iSKS	27	58.00			SRO	122.13	325	ePKP	21	50.20	1.7	HOFF	126.93	331	PKP	21	58.18	0.4
		iPS	31	14.00			NAV	122.41	49	ePKP	21	49.11	-0.3	LANF	126.98	331	PKP	21	57.99	0.1
		iPPS	32	20.00			POF	122.46	230	iPKPd	21	51.50	1.8	UCC	127.24	335	PKP	21	59.00	0.7
		iSS	37	24.00				1.0s	40.00nm					WLF	127.28	333	iPKPc	21	58.86	0.5
		i	40	14.00			VAY	122.48	316	iPKP	21	48.60	-0.8	SNF	127.49	335	iPKPc	21	59.24	0.5
		iSSS	41	34.00			GAC	122.53	38	ePKP	21	50.00	0.7	WLS	127.59	331	PKP	21	58.79	-0.3
		eSSSS	45	16.00			ZST	122.61	326	iPKP	21	49.80	0.4	CDF	127.62	331	PKP	21	58.84	-0.4
		LQ	50	28.00				1.2s	31.50nm					FEL	127.63	330	PKP	21	58.33	-1.0
		LR	56	00.00			BRG	122.73	330	iPKPc	21	49.60	0.1	ARV	127.64	323	PKP	21	59.50	0.1
OBN	108.73	327	(Pdiff	17	15.00	-2.4		Z 18s	7.50um			6.4Msz		DOU	127.66	334	PKPc	21	59.70	0.6
SIM	113.31	317	ePdiff	17	40.00	1.9		N 18s	5.00um					MGR	127.77	318	PKP	21	58.60	-1.1
	Z 20s	5.50um				6.1Msz		E 18s	6.50um					EMM	127.78	35	ePKP	21	59.39	-0.1
	N 20s	5.20um					CLL	122.93	331	iPKP	21	49.80	-0.1	ECH	127.82	331	PKP	21	59.05	-0.5
	E 20s	2.20um						1.5s	31.00nm					SFI	128.04	324	PKP	21	59.80	-0.2
		e	22	24.00				Z 20s	6.50um			6.3Msz		ASS	128.05	323	PKP	21	59.90	-0.3
		ePS	32	00.00			PRU	122.96	329	ePKP	21	49.40	-0.6	MOF	128.08	330	PKP	21	59.58	-0.6
		ePPS	33	12.00			SKO	122.98	318	iPKP	21	49.50	-0.8	PGD	128.14	324	PKP	22	00.80	0.3
MNK	114.06	328	iPKP	21	33.00	0.1		1.3s	73.00nm					CRE	128.15	324	PKP	22	00.00	-0.4
	Z 20s	17.50um				6.7Msz		Z 21s	5.80um			6.2Msz		BBS	128.16	330	PKP	21	59.66	-0.6
	N 20s	6.50um							i	21	55.30			BSF	128.26	331	PKP	21	59.85	-0.7
	E 20s	12.90um							i	23	26.00			HAU	128.35	331	ePKP	22	00.70	0.1
		e	22	24.00					iPP	25	55.00				1.0s	32.20nm				
		e	32	02.00					iPPP	28	44.00				Z 22s	6.90um				6.3Msz
CCM	114.26	51	ePdiff	17	43.68	1.2			iS	33	46.00			VITF	128.38	332	PKP	22	00.13	-0.5
FRB	114.80	19	ePKP	21	33.50	-0.5			i	35	55.00			SOI	128.42	316	PKP	22	02.90	2.0
	1.0s	6.00nm							LR	17	02.00			MNS	128.42	322	PKP	22	00.50	-0.4
SLM	114.90	50	PKP	21	50.00	15.0X	VKA	123.01	326	ePKP	21	50.00	-0.2	FIR	128.47	324	ePKP	22	01.00	0.2
	Z 19s	8.87um				6.4Msz		Z 21s	6.30um			6.2Msz		NNA	128.49	110	ePKP	22	02.30	0.5
FVM	114.90	51	PKP	21	50.00	14.9X			LR	15	42.00				Z 20s	1.42um				5.7Msz
	Z 20s	25.33um				6.8Msz	JSC	123.04	52	ePKP	21	50.77	0.1	LMN	128.57	32	ePKP	22	04.50	3.5X
NAI	114.93	266	Pdiff	17	48.00	1.7	OHR	123.78	317	iPKP	21	51.50	-0.5	LOMF	128.57	330	PKP	21	59.96	-1.1
		PPP	22	36.00				1.2s	73.00nm					BDI	128.68	325	PKP	22	01.50	0.1
		PPS	28	36.00			KHC	123.98	328	PKPc	21	52.00	-0.1	BOB	128.90	326	PKP	22	01.80	0.0
		SS	32	08.00				1.3s	24.00nm					TCA	129.52	139	ePKPc	22	03.20	-0.2
		PKKS	39	20.00				Z 20s	11.30um			6.5Msz		LPL	129.87	329	ePKP	22	04.10	0.3
GRM	115.63	229	ePKP	21	38.00	1.3		N 20s	3.00um						0.9s	14.90nm				
BFT	115.81	238	e(PKP)	21	28.00	-9.5X		E 20s	8.30um					LPG	129.87	328	ePKP	22	04.10	0.2
KIS	116.09	320	ePdiff	17	44.00	-6.3X			e	21	57.10				1.3s	31.05nm				
	Z 20s	8.90um				6.4Msz			e	22	17.50			LOR	130.06	332	ePKP	22	04.20	0.4
	N 18s	2.00um							e	23	40.00				1.2s	44.05nm				
	E 18s	6.60um							eSP	33	15.00				Z 22s	7.25um				6.3Msz
		e	22	46.00					ePS	33	36.00			SSF	130.38	332	ePKP	22	04.90	0.5
		e	25	06.00					e	34	25.00				1.6s	88.30nm				
		e	28	38.00					e	41	20.00			SAOF	130.44	327	PKP	22	04.14	-0.5
		ePS	32	20.00			MOX	124.03	331	iPKPd+	21	52.50	0.4	AUTN	130.50	327	PKP	22	05.13	0.1
SEK	116.86	235	iPKPd	21	39.00	-0.3		1.6s	41.00nm					SMF	130.52	331	ePKP	22	05.00	0.3
	1.3s	38.46nm						Z 21s	6.50um			6.3Msz			1.4s	78.40nm				
HFS	116.88	338	ePKP	21	37.60	-0.5	GEC2	124.09	328	PKP	21	52.40	0.0	PGF	130.53	324	ePKP	22	04.80	-0.2
	0.3s	1.30nm						1.4s	18.30nm						1.4s	83.65nm				
	Z 19s	7349.00um				9.3MszX			e	33	19.00			SBF	130.59	326	ePKP	22	04.90	-0.1
		LR	09	59.00					e	33	26.10				1.1s	35.40nm				
MTD	117.14	248	iPKPd	21	52.20	12.2X	CEH	124.19	50	ePKPc	21	52.50	-0.4	TOUF	130.59	327	PKP	22	04.01	-1.2
NB2	117.14	340	PKP	21	37.30	-1.4		Z 18s	7.46um			6.4Msz		PSO	130.61	93	ePKP	22	07.50	1.1
	1.0s	12.00nm					WET	124.33	329	ePKP	21	53.00	0.2	AURF	130.63	327	PKP	22	05.44	0.3
SLR	117.28	238	iPKPc	21	36.20	-4.0X		Z 20s	8.00um			6.4Msz		AVF	130.65	332	ePKP	22	05.20	0.3
	1.0s	30.00nm					PTJ	124.51	324	ePKP	21	50.60	-2.7		1.2s	16.35nm				
	Z 20s	18.60um				6.7Msz	ZAG	124.55	324	ePKP	21	53.50	0.3	LDF	130.80	336	ePKP	22	05.50	0.3
PRY	117.52	236	ePKP	21	38.00	-2.6	GRF	124.83	330	ePKPc	21	53.80	0.1		1.4s	64.05nm				
BLF	117.70	233	ePKP	21	38.00	-2.9		Z 23s	8.00um			6.3MszX		FLN	130.81	336	ePKP	22	05.50	0.3
FRS	118.12	232	ePKP	21	40.70	-0.7			e	21	59.20				1.4s	94.10nm				
	1.0s	20.00nm					VBY	125.14	324	ePKP	21	54.50	0.1		Z 23s	10.02um				6.5MszX
JAO	118.16	30	ePKP	21	40.00	-0.8	LJU	125.26	325	ePKP	21	54.50	-0.2	BGF	131.05	332	ePKP	22	06.30	0.6
CVO	118.26	320	ePKP	21	40.00	-1.3			e(PP)	23	05.00				1.0s	29.60nm				
KSR	118.40	237	iPKPc	21	42.00	-0.3			e	35	00.00			FRF	131.22	327	ePKP	22	06.40	0.3
	0.9s	25.00nm					GPD	125.42	42	ePKP	21	54.72	-0.4		1.3s	49.80nm				
MLR	118.54	320	ePKP	21	42.00	0.0	CEY	125.50	325	ePKP	21	54.80	-0.4	GRR	131.26	336	ePKP	22	06.50	0.5
BUL	118.88	244	iPKPc	21	43.00	-0.3	RBL	125.58	326	PKP	21	54.00	-1.4		1.6s	127.50nm				
	1.0s	15.00nm					VOY	125.63	325	ePKP	21	55.10	-0.4	MAF	131.43	332	ePKP	22	07.20	0.7
UZH	119.41	324	iPKP	21	43.30	0.0	RIY	125.74	324	ePKP	21	54.90	-0.7		1.3s	26.35nm				
	1.5s	32.00nm					PAL	125.80	42	ePKP	21	55.79	-0.1	LMR	131.44	327	ePKP	22	06.80	0.3
	Z 20s	8.20um				6.4Msz	BNS	125.89	333	iPKPc	21	56.00	0.3		1.4s	54.45nm				
	E 20s	11.80um						Z 20s	24.00um			6.9Msz		LRG	131.44	327	ePKP	22	07.00	0.5
		i	23	07.00			TRI	125.89	325	ePKP	21	56.00	0.1		1.3s	64.25nm				
		i	32	52.00					e	23	36.00			TCF	131.55	332	ePKP	22	07.20	0.5
		ePPS	34	12.00					e	26	32.00				1.4s	72.75nm				
EEO	119.88	38	ePKP	21	47.50	3.2X			e	35	16.00			LPF	131.62	336	ePKP	22	07.30	0.6
SPC	120.31	325	ePKP	21	46.40	1.1			e	39	04.00				1.0s	60.20nm				
SUR	120.36	228	ePKP	21	44.00	-1.9			e	41	44.00			FSA	131.70	132	e(PKP)	22	06.00	-1.5

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ARE	131.86	118	ePKP	22	10.00	1.5
LSF	131.89	333	ePKP	22	07.70	0.4
MFF	132.37	334	ePKP	22	08.80	0.6
	1.3s		41.15nm			
RJF	132.61	332	ePKP	22	09.80	1.1
	Z 23s		9.60um			6.4MszX
CAF	132.63	331	ePKP	22	10.00	1.2
	1.6s		48.50nm			
BCAO	133.62	271	iPKPd	22	03.10	-8.5X
	0.9s		32.00nm			
			id	22	11.40	
			id	24	41.00	
			id	25	39.10	
			ic	25	52.70	
BOG	134.13	89	ePKP	22	17.00	4.0X
YJA	134.24	128	e(PKP)	22	02.00	-11.1X
CNCB	134.78	120	PKP	21	58.00	-16.3X
			i	22	14.10	
ZOBO	134.88	119	PKP	21	57.00	-17.6X
	Z 22s		2.48um			5.9Msz
			i	22	14.80	
			LR	07	00.00	
CCH	136.10	122	PKP	22	17.10	0.5
EBR	136.41	328	ePKP	22	08.00	-8.0X
			ePP	25	52.00	
SDV	137.58	83	ePKPd	22	14.70	-4.6X
ECHE	138.07	328	ePKP	22	12.50	-6.8X
TOV	138.37	81	ePKP	22	10.00	-10.6X
GUD	138.85	332	ePKP	22	15.00	-5.8X
EVIA	139.58	329	ePKP	22	13.20	-9.0X
ENIJ	140.65	327	ePKP	22	11.30	-12.7X
SIV	141.02	123	PKP	22	17.00	-8.2X
CAR	141.14	80	iPKPc	22	18.00	-7.6X
ECOG	141.15	328	ePKP	22	17.30	-7.7X
ELUO	141.30	329	ePKP	22	17.80	-7.4X
EGUA	141.49	328	ePKP	22	19.00	-6.5X
EHOR	141.59	330	ePKP	22	19.90	-5.7X
MAL	142.01	328	ePKP	22	20.00	-6.4X
			iPP	25	30.00	
EPRU	142.25	330	ePKP	22	22.10	-4.8X
LIJA	142.39	330	ePKP	22	23.00	-4.2X
EVAL	142.50	332	ePKP	22	21.50	-5.8X
EJIF	142.77	329	ePKP	22	23.50	-4.2X
CNIL	143.12	330	ePKP	22	26.00	-2.3
PLAT	143.17	329	iPKP	22	26.00	-2.5
TSY	143.86	329	ePKP	22	27.20	-2.4
RSA	144.16	328	iPKPd	22	28.00	-2.1
NEV	144.21	68	ePKP	22	28.47	-2.2
PPD	144.49	141	ePKP	22	29.00	-2.1
			e	22	35.90	
MGH	144.65	69	ePKP	22	28.00	-3.5X
CPB	144.76	67	ePKP	22	28.81	-2.8
BPA	144.89	68	ePKP	22	28.00	-3.9X
PAG	145.32	70	ePKP	22	30.00	-2.7
RTC	145.39	328	iPKPd	22	33.00	0.8
MGG	145.68	70	ePKP	22	30.50	-2.7
AVE	146.22	328	iPKP	22	35.00	1.3
			i	22	47.00	
VAO	146.28	147	ePKP	22	35.60	1.4
			e	22	44.60	
CRM	146.33	71	ePKP	22	36.40	2.1
SLB	146.40	73	ePKP	22	34.94	0.4
TRN	146.54	79	ePKP	22	34.77	0.1
TIO	147.94	325	iPKP	22	40.00	3.3X
RIFB	148.30	143	ePKP	22	40.40	2.9
			e	22	50.10	
			e	23	12.50	
BAO	151.26	137	iPKP	22	42.00	-0.1
			i	22	48.00	
			i	22	55.00	
			e	23	13.30	
TBT	154.89	339	ePKPc	22	41.46	-5.2X
			e	23	11.26	
KIC	156.83	274	PKP	22	49.40	-0.3
	0.9s		74.00nm			
			PKPob	23	20.00	
TIC	157.09	274	PKP	22	50.00	-0.1
			PKPob	23	21.00	
LIC	157.11	273	PKP	22	50.00	-0.1
	Z 22s		5.00um			6.3Msz
			PKPob	23	21.00	
KDS	162.83	296	ePKP	22	56.30	0.2
	S.D. = 1.1		on 345 of 404 obs.			

MAY 17, 1993 16h 14m 20.62± 0.28s
5.250 S ± 5.9km 152.083 E ± 6.6km
DEPTH = 23.8km (3 depth phases)

5.2mb (20 obs.) 5.8Msz (1 obs.)
NEW BRITAIN REGION, P.N.G. (192)

PMG	6.39	229	eP	15	58.00	2.2
			eS	17	10.00	
CTA	15.80	201	iPc	18	08.00	4.7X
	1.0s		20.00nm			4.2mb
QIS	19.46	217	eP	18	53.70	5.0X
	1.0s		23.00nm			4.4mb
GUA	19.98	339	eP	18	56.20	1.8
	1.2s		237.50nm			5.4mb
GUMO	20.04	339	eP	18	56.10	1.1
	1.2s		181.90nm			5.3mb
PJG	20.04	339	eP	18	55.20	0.2
BKM	20.05	129	iPc	18	58.00	2.8
DZM	21.74	142	iPc	19	11.10	-1.4
MTN	22.01	249	eP	19	16.00	0.9
BRS	22.03	178	iP	19	14.50	-0.8
	0.8s		4.00nm			3.9mb X
WB2	22.60	228	iPc	19	21.20	0.2
	0.5s		34.60nm			5.1mb
			eS	23	25.90	
WRA	22.61	228	P	19	22.50	1.4
ASPA	25.34	222	eP	19	48.90	1.4
	0.7s		33.40nm			5.1mb
			i	19	55.30	23km
			eS	24	19.40	
STK	28.26	199	eP	20	12.00	-2.1
	0.8s		4.10nm			4.2mb
MBL	35.04	240	eP	21	12.00	-1.9
MEEK	38.36	233	eP	21	41.00	-0.9
	0.4s		22.00nm			5.3mb
BJI	55.87	327	eP	23	58.00	-0.7
KMI	56.65	305	Pd	24	05.00	0.1
	1.5s		60.00nm			5.4mb
			pP	24	20.00	56kmX
CHTO	57.54	296	eP	24	10.80	-0.2
	1.2s		17.36nm			5.0mb
GUN	71.74	301	P	25	43.40	-0.3
PKI	72.05	301	P	25	45.00	-0.6
KKN	72.22	301	P	25	45.60	-0.8
DMN	72.32	301	P	25	46.80	-0.3
	0.8s		42.00nm			5.5mb
GKN	72.82	301	P	25	49.60	-0.3
GBA	76.40	285	P	26	10.00	-0.4
KDC	76.92	27	ePd	26	12.30	-0.2
SVW	77.51	23	ePc	26	16.40	0.6
	1.0s		32.20nm			5.3mb
RSO	78.29	25	eP	26	18.80	-1.5
TTA	78.45	22	ePc	26	21.30	0.3
	1.2s		65.20nm			5.5mb
CRP	78.98	24	ePd	26	22.88	-1.2
SLKM	79.38	25	iPc	26	25.33	-0.7
PMR	80.39	25	ePd	26	30.80	-0.6
IMA	81.12	20	ePd	26	35.20	-0.1
	1.1s		26.70nm			5.2mb
KLU	81.69	25	ePc	26	38.29	0.0
FBA	82.57	22	ePd	26	41.50	-1.2
BALM	83.05	27	eP	26	45.08	-0.3
SPA	84.78	180	iPd	26	54.00	-0.2
	1.0s		17.50nm			5.2mb
	Z 19s		3.38um			5.8Msz
SIT	85.03	32	eP	26	56.16	0.9
	1.0s		24.12nm			5.4mb
			epP	27	04.18	25km
INK	89.13	21	eP	27	16.50	1.4
	1.0s		7.00nm			4.9mb
LBFM	90.45	49	eP	27	23.06	1.0
GMW	90.55	42	eP	27	22.63	0.5
			epP	27	30.20	24km
MCW	90.66	41	eP	27	23.44	0.8
BONR	92.89	52	eP	27	34.05	0.6
KVN	93.13	51	eP	27	35.46	1.0
DPW	93.66	42	eP	27	36.45	-0.1
TNP	93.75	52	eP	27	38.06	0.7
	1.0s		8.80nm			5.1mb
TPNV	94.45	53	eP	27	41.18	0.6
	1.0s		12.29nm			5.3mb
YKA	96.15	28	eP	27	46.50	-1.0
	1.1s		4.80nm			4.9mb
PV08	100.50	52	ePdiff	28	06.69	-1.5
BCAO	133.71	271	iPKPd	33	37.20	-1.1
	0.9s		9.00nm			
BAO	151.26	137	ePKP	34	13.80	5.2X
	S.D. = 1.1		on 48 of 51 obs.			

MAY 17, 1993 17h 40m 40.33± 0.37s
5.456 S ± 6.0km 152.200 E ± 8.4km
DEPTH = 33.0km (normal)
4.9mb (14 obs.)
NEW BRITAIN REGION, P.N.G. (192)

RAB	1.26	358	iPd-	41	04.00	2.3
PMG	6.36	232	eP	42	16.00	1.8
			eS	43	28.00	
CTA	15.65	201	iPc	44	25.00	4.8X
	1.0s		20.00nm			4.3mb
QIS	19.37	218	eP	45	12.20	5.9X
	1.0s		24.00nm			4.4mb
BKM	19.83	129	iPc	45	18.00	6.6X
GUA	20.21	339	eP	45	16.30	0.9
GUMO	20.27	339	eP	45	16.50	0.5
	1.2s		141.00nm			5.2mb
PJG	20.27	339	eP	45	16.80	0.8
DZM	21.51	142	iPc	45	29.50	0.7
BRS	21.82	179	iP	45	32.00	0.2
			i	45	38.00	
MTN	22.05	249	eP	45	35.00	1.0
WB2	22.56	229	eP	45	38.70	-0.4
	0.5s		19.50nm			4.8mb
			eS	49	32.90	
WRA	22.56	229	P	45	39.50	0.3
	0.8s		7.50nm			4.2mb
ASPA	25.27	222	iPd	46	05.80	0.4
	1.3s		35.60nm			4.8mb
			eS	50	33.00	
STK	28.10	199	eP	46	30.40	-0.9
	0.8s		3.60nm			4.1mb
MEEK	38.33	233	eP	48	00.00	-0.1
KMI	56.86	305	eP	50	24.50	-0.3
	1.5s		50.00nm			5.3mb
CHTO	57.73	296	eP	50	30.20	-0.6
GUN	71.95	302	P	52	02.20	-1.2
PKI	72.25	301	P	52	03.60	-1.6
KKN	72.43	301	P	52	04.80	-1.2
DMN	72.52	301	P	52	05.60	-1.1
GKN	73.03	301	P	52	08.40	-1.1
	0.8s		28.00nm			5.3mb
SVW	77.65	23	iPc	52	35.48	0.5
	0.7s		28.09nm			5.4mb
RSO	78.43	24	eP	52	37.84	-1.6
TTA	78.59	22	iPc	52	40.11	-0.1
	0.8s		12.88nm			5.0mb
CRP	79.12	24	eP	52	41.56	-1.6
SLKM	79.51	25	iPc	52	44.72	-0.4
FBA	82.71	22	eP	53	00.82	-1.0
	0.7s		21.01nm			5.3mb
BALM	83.18	26	iPd	53	04.58	0.1
INK	89.28	21	eP	53	35.00	0.9
	1.0s		4.00nm			4.7mb
GMW	90.62	42	(P)	53	41.92	1.1
MCW	90.74	41	eP	53	41.84	0.5
YKA	96.28	28	eP	54	06.10	-0.4
	0.9s		2.60nm			4.7mb
GEC2	124.29	328	PKP	59	37.40	-0.3
	0.6s		0.40nm			
			e	59	39.70	
AVE	146.42	328	iPKP	00	20.50	1.7
TIO	148.15	325	iPKP	00	25.20	3.4X
	S.D. = 1.1		on 33 of 37 obs.			

• MAY 17, 1993 17h 56m 03.89± 1.61s
32.824 S ± 6.4km 71.672 W ±13.8km
DEPTH = 10.0km (geophysicist)
NEAR COAST OF CENTRAL CHILE (135)
MD 3.9 (SAN).

ROCH	0.58	105	iPd	56	15.87	0.2
			iS	56	25.57	
LCCH	0.66	172	iP	56	17.43	0.5
			iS	56	28.26	
PEL	0.89	111	iP+	56	20.99	0.0
			iS	56	34.87	
JACH	0.92	81	iP	56	19.92	-1.6
			iS	56	33.26	
TACH	1.03	144	iP	56	23.59	0.2
			iS	56	38.78	
LNV	1.15	169	iP	56	24.63	-0.7
			iS	56	41.92	
PCH	1.26	130	iP	56	27.19	-0.1
			iS	56	45.68	
FCH	1.26	114	iP+	56	26.87	-0.7
			iS	56	45.28	
CHCH	1.40	143	iP	56	29.80	0.3

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                    iS     56 49.24
RTBS     2.21   59 ePd     56 41.40    0.3
RTCB     2.78   62 eP      56 50.50    1.2
RTLL     3.10   62 eP      56 53.70   -0.1
CFA      3.15   68 eP      56 56.80    2.2
                    S      57 38.70
RTRS     3.25   36 ePc     56 54.20   -1.7
     S.D. = 1.1   on  14 of  14 obs.
-----------------------------------------
*  MAY  17, 1993  18h 00m 01.03± 0.44s
   15.135 S ±18.9km  173.797 W ±17.4km
   DEPTH =  33.0km  (normal)
   4.7mb ( 12 obs.)
 TONGA ISLANDS                      (173)

DZM     19.95 247 iPc    04 39.20    5.8X
TOO     42.34 230 iPc    07 53.70    0.0
        1.0s     35.00nm          5.0mb
STK     43.84 240 eP     08 06.20    0.2
        0.9s      1.60nm          3.8mb
WRA     49.53 257 P      08 51.00    0.0
        0.8s      2.20nm          4.2mb
ASPA    49.83 252 iPc    08 52.50   -0.8
        0.8s     37.40nm          5.5mb
CSY     70.49 205 P      11 12.10   -2.0
SVW     77.36   9 eP     11 52.90   -1.0
TTA     79.05   8 eP     12 02.87   -0.3
        1.3s     14.78nm          4.8mb
KLU     79.52  13 eP     12 04.92   -0.9
HVU     79.76  42 eP     12 07.08   -0.6
SRU     79.93  45 eP     12 07.91   -0.7
BALM    79.96  15 iPd    12 07.51   -0.7
                   e     13 58.77
DAU     80.07  43 (P)    12 09.09   -0.4
PV09    80.59  46 eP     12 12.29    0.0
ALO     80.92  50 iPd    12 14.90    0.9
        1.1s      4.75nm          4.4mb
PV08    80.97  46 eP     12 14.27   -0.1
LRM     82.05  38 eP     12 19.70    0.0
FBA     82.21  11 eP     12 19.00   -0.8
        0.6s     10.89nm          5.1mb
IMA     82.35   8 iPc    12 20.92    0.2
        0.9s      3.14nm          4.4mb
GOL     83.75  46 eP     12 28.65    0.0
        0.9s     12.60nm          5.1mb
GLD     83.87  46 eP     12 29.40    0.3
        1.1s     30.55nm          5.4mb
INK     88.10  14 eP     12 50.50    1.4
        1.0s      1.00nm          4.1mb
YKA     90.01  24 eP     12 56.40   -1.8
        1.0s      3.50nm          4.6mb
SPC    144.14 344 ePKP    19 33.80   -1.5
PRU    144.58 351 ePKP    19 34.80   -1.0
GRF    145.29 354 iPKPd   19 37.50    0.5
KHC    145.56 351 PKPc    19 38.40    0.9
        1.3s     19.30nm
                   e     19 41.60
WLF    145.56   0 iPKPc   19 38.42    1.0
        1 7s     50.50nm
GEC2   145.82 351 PKP     19 38.60    0.5
        1.2s      8.23nm
                   e     19 41.10
ZST    145.83 347 iPKPc   19 39.50    1.6
SRO    145.91 345 iPKP    19 40.30    2.2
FLN    146.02   8 ePKP    19 37.90   -0.3
        1.0s     21.80nm
LDF    146.23   8 ePKP    19 38.50   -0.1
        1.3s     35.00nm
LPF    146.65   9 ePKP    19 40.00    0.7
        0.8s     14.25nm
CDF    146.81 359 ePKP    19 40.80    1.1
        1.1s     23.70nm
BHG    147.04 352 ePKP    19 49.70    9.7X
HAU    147.22 360 ePKP    19 42.00    1.7
        1.1s     30.05nm
BSF    147.39 359 ePKP    19 43.80    3.2X
        1.2s     20.55nm
WATA   147.58 353 iPKPc   19 43.80    2 8X
MOTA   147.63 354 iPKPc   19 44.00    2.9X
LOR    147.90   3 ePKP    19 43.80    2.4X
        1.4s     41.40nm
SSF    148.09   3 ePKP    19 44.50    2.9X
        1.5s     97.15nm
OGA    148.11 354 iPKPc   19 46.00    4.1X
LBF    148.19   3 ePKP    19 44.60    2.7X
        1.4s     55.35nm
PTJ    148.25 347 ePKP    19 46.00    4.0X
AVF    148.35   4 ePKP    19 44.70    2.7X
        0.9s     13.75nm
LJU    148.40 349 e(PKP)  19 42.00   -0.2
                  ePKPbc  19 46.00
SMF    148.52   3 ePKP    19 45.40    3.0X
        1.1s     21.50nm
VOY    148.53 350 ePKP    19 46.00    3.5X
BGF    148.55   4 ePKP    19 45.60    3.2X
        0.8s     13.85nm
CEY    148.72 349 e(PKP)  19 46.00    3.3X
LSF    148.73   6 ePKP    19 45.60    2.9X
        0.8s     10.05nm
TCF    148.76   5 ePKP    19 45.80    3.0X
        1.2s     22.30nm
MAF    148.86   5 ePKP    19 46.40    3.5X
        1.2s     23.20nm
RJF    149.67   7 ePKP    19 48.20    4.0X
        1.5s     49.10nm
LPL    149.71 359 ePKP    19 49.60    5.1X
        0.8s     10.05nm
LPG    149.73 359 ePKP    19 49.80    5.2X
        0.7s      9.80nm
LFF    149.93   8 ePKP    19 49.00    4.5X
        0.9s     22.75nm
CAF    150.10   6 ePKP    19 49.60    4.7X
        1.2s     24.10nm
LPO    150.24   7 ePKP    19 49.80    4.8X
OHR    151.18 337 e(PKP)  19 52.70    6.1X
SBF    151.35 358 ePKP    19 52.10    5.3X
        1.4s     44.45nm
FRF    151.67 359 ePKP    19 53.10    5.9X
        0.8s      6.05nm
LRG    151.78 360 ePKP    19 53.50    6.2X
        0.9s     12.60nm
LMR    151.90 360 ePKP    19 53.60    6.1X
        0.8s      4.85nm
PGF    152.58 356 ePKP    19 55.00    6.3X
        1.4s     27.90nm
      S.D. = 1.0   on  36 of  66 obs.
-----------------------------------------
*  MAY  17, 1993  18h 42m 08.81± 0.86s
    5.440 S ± 9.3km  152.626 E ±17.1km
   DEPTH =  33.0km  (normal)
   4.3mb (  8 obs.)
 NEW BRITAIN REGION, P.N.G.         (192)

RAB      1.32 340 e(P)   42 32.00    0.9
PMG      6.70 234 eP     43 47.00   -0.5
                  eS     45 00.00
OIS     19.64 219 eP     46 43.20    5.3X
        0.8s      7.00nm          4.0mb
WB2     22.89 229 iPd    47 10.00   -0.8
        0.8s     11.60nm          4.4mb
ASPA    25.57 223 iPd    47 36.80    0.2
        0.5s     12.90nm          4.8mb
STK     28.26 200 eP     48 02.90    1.7
        0.5s      1.20nm          3.8mb
GUN     72.30 301 P      53 33.80   -0.1
PKI     72.61 301 P      53 35.60   -0.1
KKN     72.78 301 P      53 36.60    0.0
DMN     72.88 301 P      53 37.40    0.2
GKN     73.39 301 P      53 39.80   -0.2
IMA     81.11  19 (P)    54 22.52    0.3
        0.9s      4.64nm          4.5mb
INK     89.11  21 eP     55 06.50    4.7X
        1.0s      2.00nm          4.4mb
MBC     94.77  14 eP     55 31.00    3.2X
        1.0s      1.00nm          4.2mb
YKA     96.07  28 eP     55 32.50   -1.5
        0.5s      0.30nm          4.0mb
      S.D  = 0 9   on  12 of  15 obs.
-----------------------------------------
&  MAY  17, 1993  18h 51m 33.17s
   60.908 N        152.113 W
   DEPTH =  94.3km
 SOUTHERN ALASKA                    (  2)
      <AEIC>.

SPU      0 28    6 iPd    51 46.46   -0.8
                   eS     51 56.89
CKT      0.30 351 iPd     51 46.58   -0.8
                   eS     51 57.26
CKL      0.31 339 iPd     51 46.74   -0.8
CKN      0.32 354 iPd     51 46.94   -0.5
CPAM     0.35 358 iPd     51 47.13   -0.6
                   eS     51 58.06
CRP      0.36 357 iPd     51 47.27   -0.6
                   eS     51 58.24
CP2      0.36 350 iPd     51 47.35   -0.6
BGL      0.38 339 iPd     51 47.34   -0.6
CGLM     0.40   7 iPd     51 47.39   -0.6
DFR      0 42 222 iPd     51 47.29   -0.9
NKA      0.46 111 iPc     51 49.39    1.2
RDN      0.51 219 eP      51 47.95   -0.9
NCT      0.53 229 iPd     51 48.21   -0.7
RDW      0.55 219 iPd     51 48.45   -0.7
SUA      0.87  49 iPc     51 51.71   -0.4
                   eS     52 05.92
INE      0 97 209 iPd     51 52.28   -1.0
INW      0.98 211 iPd     51 52.45   -0.9
SLKM     1.01 113 iPc     51 53.08   -0.6
                   eS     52 08.94
SKT      1.11  14 iPc     51 53.91   -0.9
                   eS     52 10.24
PMS      1.29  74 P       51 56.40   -0.5
BRLK     1.30 151 eP      51 56.75   -0.3
PWA      1.31  54 P       51 56.90   -0.2
MPA      1.42 106 ePc     51 57.70   -0.7
                   eS     52 17.43
CNPM     1 45 162 ePd     51 58.30   -0.7
XLV      1.47 172 P       51 59.70    0.5
PTE      1.51  90 iPc     51 58.38   -1.2
PDB      1.53 224 iPd     51 59.17   -0.7
                   eS     52 18.88
SEW      1.55 120 eP      51 59.00   -1.1
PLRM     1.60  63 eP      51 59.29   -1.4
AUL      1.67 204 eP      52 01.63    0.0
AUE      1.68 203 eP      52 01.12   -0.7
AUH      1.69 204 eP      52 01.71   -0.3
AUI      1.71 203 eP      52 02.09   -0.1
SVW      1.72 278 P       52 01.20   -1.2
GHO      1.76  59 iPc     52 01.66   -1.4
                   eS     52 24.35
SML      2.03  62 iPc     52 04.76   -1.8
CDD      2.13 202 iPd     52 07.26   -0.5
SYI      2.31 184 iPd     52 09.56   -0.6
HUR      2.38  28 eP      52 10.90   -0.3
SCM      2.48  66 eP      52 10.64   -2.0
TRF      2.69  18 iPd     52 14.28   -1.3
TTA      2.74 319 P       52 15.10   -1.0
HIN      2.81  98 eP      52 14.25   -2.8
VLZ      2.82  83 eP      52 14.53   -2.6
RND      2.94  30 eP      52 17.41   -1.4
KLU      3.05  76 iPc     52 17.84   -2.6
CVA      3.15  94 P       52 27.20    5.6
MCK      3.20  26 eP      52 21.98   -0.4
TZL      3.41  68 P       52 20.70   -4.4
SDG      3.52  60 eP      52 25.37   -1.4
PAX      3.76  54 eP      52 28.64   -1.5
NEA      3.94  19 eP      52 30.31   -2.2
WRH      4.03  26 eP      52 31.56   -2.2
GLB      4.06  79 ePc     52 31.11   -3.1
HDA      4.24  32 eP      52 35.04   -1.6
CCB      4.24  26 eP      52 34.41   -2.2
CROM     4.40  88 eP      52 37.68   -1.3
GLM      4.63  26 eP      52 40.26   -1.8
SNH      4.64  95 P       52 38.70   -3.5
BALM     4.76  84 eP      52 40.90   -3.1
YAH      5.13  92 eP      52 47.98   -1.3
CTGM     5.26  85 eP      52 48.40   -2.5
      62 obs. associated
-----------------------------------------
?  MAY  17, 1993  19h 36m 15.93± 2.22s
   30.832 S ±19.4km   68.692 W ±17.2km
   DEPTH =  33.0km  (normal)
 SAN JUAN PROVINCE, ARGENTINA       (137)

RTLL     0.53 159 iPc     36 28.50    1.4
RTCB     0.66 188 eP      36 29.20    0.3
CFA      0.86 153 iPc     36 30.00   -1.7
                   S      36 41.20
RTBS     1.05 218 e(P)    36 34.00   -0.4
                   S      36 49.00
RTPR     1.95  75 ePc     36 47.50    0.1
     S.D. = 1.6   on   5 of   5 obs.
-----------------------------------------
*  MAY  17, 1993  20h 05m 34.27± 0.88s
   22.782 S ±11.4km   66.462 W ±10.8km
   DEPTH = 261.7 ± 10.8 km
 JUJUY PROVINCE, ARGENTINA          (128)

HJA      1.06 114 iPd     06 11.00   -0.1
                   S      06 37.50
YJA      1.08  56 iPd     06 11.50   -0.3
```

17d 20h

			S	06	34.50	
ANT	3.75	255	iP+	06	36.40	0.2
			iS	07	21.20	
CCH	5.38	3	P	06	56.10	0.2
CNCB	6.11	346	P	07	04.20	-1.0
			S	08	17.00	
ZOBO	6.67	346	P	07	13.00	0.9
			S	08	30.00	
PPD	14.03	90	(P)	08	45.00	1.3
VAO	17.97	94	(P)	09	27.00	-1.1
BAO	18.83	71	iPd	09	37.00	0.0

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

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* MAY 17, 1993 20h 49m 30.22± 1.08s
39.937 N ±14.1km 25.591 E ± 7.0km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

EZN	0.58	101	iPg	49	41.90	0.0
			eSg	49	51.90	
ALN	1.02	20	iPg	49	49.06	-0.4
			eSg	50	02.90	
OUR	1.30	288	iPb	49	52.42	-1.8
			iSb	50	10.97	
PAIG	1.47	270	ePb	49	57.10	0.4
SOH	1.92	298	ePb	50	03.74	0.4
			eSb	50	29.46	
SRS	1.93	308	ePb	50	04.86	1.5
KNT	2.39	302	ePn	50	10.01	0.0
			eSn	50	40.54	

S D. = 1.2 on 7 of 7 obs.

MAY 17, 1993 21h 06m 07.54± 0.70s
39.769 N ± 6.9km 20.786 E ± 6.7km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)

IGT	0.42	236	iPg	06	15.97	-0.2
			iSg	06	23.70	
FNA	1 11	24	ePg	06	27.26	-1.1
			iSg	06	44.26	
OHR	1.34	0	iPn	06	33.00	0.7
LIT	1.35	75	iPb	06	32.57	0.2
			eSb	06	52.38	
AGG	1.41	121	ePb	06	33.57	0.3
			eSb	06	54.94	
GRG	1.71	46	ePb	06	38.62	1.0
			eSb	07	00.82	
KNT	2.13	49	ePn	06	43.18	-0.4
			eSn	07	12.22	
SOH	2.23	61	iPn	06	45.10	0.0
PAIG	2.23	85	ePn	06	44.62	-0.5

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

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* MAY 17, 1993 21h 14m 42.20± 0.39s
5.264 S ± 8.5km 152.207 E ± 9.7km
DEPTH = 33.0km (normal)
5.0mb (11 obs.)
NEW BRITAIN REGION, P.N.G. (192)

PMG	6.48	230	eP	16	19.00	1.2
			eS	17	27.00	
OIS	19.52	218	eP	19	13.20	3.2X
	0.8s		8.00nm			4.1mb
DZM	21.66	142	iPc	19	29.30	-2.8
BRS	22.01	179	e(P)	19	37.50	1.9
WB2	22.69	228	iPd	19	42.00	-0.3
	0.7s		23.00nm			4.8mb
			eS	23	34.20	
KNA	25.26	244	eP	20	06.00	-1.2
ASPA	25.41	222	iPd	20	09.10	0.5
	0 9s		41.30nm			5.0mb
Z	20s		0.30um			3.8Msz
			eS	24	38.50	
STK	28.29	199	eP	20	29.70	-5.1X
	1.8s		1.40nm			3.4mb X
KMI	56.76	305	eP	24	26.00	0.0
	1.0s		30.00nm			5.3mb
GUN	71.86	301	P	26	04.00	-0.7
PKI	72.16	301	P	26	05.60	-0.9
KKN	72.33	301	P	26	06.60	-0.7
DMN	72.43	301	P	26	07.40	-0.6
GKN	72.94	301	P	26	10.20	-0.6
KDC	76 88	27	eP	26	32.30	-0.2
SVW	77 47	23	iPc	26	36.96	1.1
	0 8s		26.25nm			5.3mb
TTA	78.41	22	ePd	26	42.10	1.0
	1.1s		44.30nm			5.4mb
CRP	78.94	24	(P)	26	43.07	-1 0
SLKM	79.34	25	eP	26	45.73	-0.3
PMR	80.35	24	eP	26	50.96	-0.4
	1.0s		36.18nm			5.3mb
IMA	81.09	20	iPc	26	55.85	0.4
	0.8s		8.30nm			4.8mb
KLU	81.65	25	iPc	26	58.96	0.6
FBA	82.53	22	iPc	27	02.23	-0.6
	0.8s		28.46nm			5.4mb
BALM	83.00	26	iPd	27	05.94	0.5
INK	89.10	21	eP	27	36.50	1.4
	1.0s		5.00nm			4.8mb
MBC	94.70	14	eP	28	01.50	0.6
YKA	96.11	28	eP	28	07.40	-0.2
	1.0s		1.90nm			4.5mb
OBN	108.78	327	iPKPd	33	28.00	18.5X
	1.5s		35.00nm			
GEC2	124.14	328	PKP	33	40.30	1.1
	0.6s		0.63nm			
			e	33	42.40	
GEC2	124.14	328	PKP	33	52.00	12.8X
	0.7s		0.51nm			
			e	34	37.80	
			e	34	49.70	
			e	50	12.10	
			e	50	21.50	
AVE	146.27	328	iPKP	34	22.20	1.8X
			i	34	35.00	

S.D. = 1.1 on 26 of 31 obs.

MAY 17, 1993 21h 20m 52.65± 1.10s
4.091 N ± 5.0km 126.525 E ± 8.2km
DEPTH = 85.2 ± 10.7 km
4.7mb (9 obs.)
TALAUD ISLANDS, INDONESIA (263)

CGP	4.70	337	eP	22	02.00	-0.6
PLP	7.19	348	eP	22	38.00	0.9
TSM	8.63	272	eP	22	57.00	0.1
MTN	17.44	165	eP	24	47.00	-4.9X
	0.4s		46.00nm			5.1mb
LEM	21.77	240	iPd	25	39.50	0.4
WB2	25.09	162	iPc	26	10.80	-0.2
	0.4s		23.70nm			5.0mb
			eS	30	37.40	
IPM	25.43	272	eP	26	14.00	-0.3
MBL	25.94	194	eP	26	18.00	-0.8
OIS	27.66	153	eP	26	39.80	5.3X
	0.3s		2.00nm			4.2mb
LOE	27.67	300	eP	26	34.60	-0.1
ASPA	28.51	166	eP	26	41.70	-0.5
	0.6s		6.50nm			4.4mb
			eS	31	29.50	
MEEK	31.49	194	eP	27	08.00	-0.6
BJI	36.99	347	eP	27	55.00	-0.5
Z	20s		0.48um			4.3Msz
MUN	37.19	195	eP	27	57.50	0.2
STK	38.54	159	eP	28	08.10	-0.5
	0.8s		6.80nm			4.6mb
ADE	40.51	165	eP	28	26.00	1.1
ARMA	41.88	147	iPd	28	37.30	1.0
	0.7s		15.00nm			4.9mb
TOO	45.05	159	eP	29	05.00	3.2X
GBA	49.33	284	P	29	36.00	0.5
YAK	57.84	2	eP	30	36.00	-1.3
MAIO	69.13	307	eP	31	52.00	-0.1
IMA	82.14	24	eP	33	05.40	0.2
	0.8s		1.61nm			4.0mb
KAF	91.18	332	iP	33	50.40	1.3
	0.5s		3.70nm			4.9mb
NUR	92.29	331	eP	33	53.90	-0.3
N82	98.37	334	P	34	22.20	0.1
	0.6s		1.10nm			4.6mb

S.D. = 0.7 on 22 of 25 obs.

? MAY 17, 1993 21h 30m 34.21± 0.88s
15.191 S ±43.6km 173.370 W ±30.0km
DEPTH = 33.0km (normal)
4.4mb (10 obs.)
TONGA ISLANDS (173)

DZM	20.30	247	iPc	35	12.10	1.8
TOO	42.62	231	eP	38	28.20	-1.0
STK	44.17	240	eP	38	41.40	-0.4
	0.7s		1 60nm			3.9mb
WB2	49.91	257	iPc	39	26.60	-0.4
	0.7s		2.50nm			4.4mb
WRA	49.92	257	P	39	28.40	1.3
	0.8s		1.10nm			3.9mb
WRA	49.92	257	P	39	34.50	7.4X
	0.8s		1.30nm			4.0mb
ASPA	50.21	252	eP	39	27.30	-2.0
	0.7s		6.60nm			4.8mb
PV10	80.34	46	(P)	42	43.40	-0.7
ALQ	80.64	50	ePc	42	46.54	0.8
	1.0s		3.44nm			4.3mb
PV08	80.71	46	eP	42	46.74	0.6
BW06	82.10	42	eP	42	53.12	-0.1
	1.3s		8.28nm			4.6mb
FBA	82.19	11	eP	42	52.47	-0.4
	0.8s		12.11nm			5.0mb
RSSD	86.29	42	eP	43	14.69	0.4
	1.2s		9.96nm			4.9mb
YKA	89.89	23	eP	43	29.10	-1.8
	0.9s		1.60nm			4.3mb
SPC	144.31	345	ePKP	50	13.40	4.6X
GRF	145.39	355	ePKP	50	11.20	0.8
KHC	145.68	352	ePKP	50	12.10	1 2
			e	50	25.00	
ZST	145.97	347	ePKP	50	04.30	-7.1X
			e	50	13.20	
			e	50	30.80	
SRO	146.06	346	ePKP	50	17.30	5.8X
CDF	146.87	359	ePKP	50	15.60	2.7X
	1.3s		14.80nm			
LOR	147.93	4	ePKP	50	17.20	2.6X
SSF	148.12	4	ePKP	50	20.40	5.5X
	1.3s		23.85nm			

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

? MAY 17, 1993 21h 38m 54.30± 4.34s
28.468 S ±26.7km 176.189 W ±34.4km
DEPTH = 80.8 ± 27.0 km
4.3mb (5 obs.)
KERMADEC ISLANDS REGION (177)

RAO	1.71	242	iP	39	22.00	-0.8
			eS	39	44.00	
DZM	16.94	288	iPc	42	49.90	2.2
STK	36.49	254	eP	45	52.90	-0.6
	0.7s		1.40nm			4.0mb
ASPA	44.83	264	iPc	47	01.20	-1.1
	1.2s		7.00nm			4.4mb
WB2	45.64	269	iPc	47	08.20	-0.4
	1.0s		5.90nm			4.4mb
WRA	45.65	269	P	47	07.80	-0.9
	0.8s		2.10nm			4.1mb
CSY	57.58	207	eP	48	39.80	2.3
	0.7s		8.80nm			5.0mb
MAT	77.59	324	eP	50	43.00	-0.1
OBN	144.43	328	ePKP	58	33.00	10.8X
NB2	147.05	353	PKP	58	29.20	2.7X
	1.1s		12.60nm			
UPP	147.23	347	ePKP	58	26.00	-0.7
HFS	147.63	351	ePKP	58	29.80	2.4X
	0.6s		1.30nm			
BCAO	152.30	213	iPKPc	58	46.00	10.1X
	0.9s		9.00nm			

S.D. = 1.7 on 9 of 13 obs.

% MAY 17, 1993 22h 27m 10.78± 1.15s
42.735 N ± 5.1km 18.507 E ±10.7km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 1.5 (TTG).

BRY	0.17	9	iPgd	27	14.49	-0.2
			iSg	27	17.08	
HCY	0.29	181	iPgc	27	17.11	0.3
			iSg	27	21.43	
NKY	0.37	78	iPgd	27	18.58	0.2
			iSg	27	24.23	
BDV	0.51	152	iPgc	27	20.78	-0.3
			iSg	27	28.73	
TTG	0.63	118	iPgd	27	23.41	-0.1
			iSg	27	32.55	
PLE	0.88	47	iPgd	27	27.94	0.2
			iSg	27	40.82	

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

% MAY 17, 1993 22h 33m 51.39± 0.92s
30.076 S ± 6.8km 67 462 W ± 7.1km
DEPTH = 109.1 ± 21.0 km

SAN JUAN PROVINCE, ARGENTINA (137)

RTPR	0.85	106	iPd	34 11.70	0.4
RTLL	1.52	215	iPd	34 18.50	-0.3
			(S)	34 39.00	
CFA	1.67	203	iPd	34 20.50	-0.1
			S	34 42.20	
ZON	1.80	215	iPc	34 22.00	-0.3
			eS	34 45.00	
RTCB	1.82	219	ePc	34 22.50	-0.1
			(S)	34 44.50	
CYA	2.18	42	iPc	34 27.20	-0.1
			S	34 52.80	
RTBS	2.33	227	ePc	34 29.10	0.0
			S	34 57.40	
MRA	2.77	148	ePd	34 34.60	-0.4
			S	35 02.30	
TCA	2.77	118	iPd	34 35.00	-0.1
			S	35 07.00	
MDZ	3.04	203	eP	34 39.70	1.0
			iS	35 15.90	
FSA	4.18	18	iP	34 54.10	0.0

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

MAY 17, 1993 22h 56m 00.75± 0.88s
16.286 N ± 5.1km 60.924 W ± 9.1km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)
MD 3.2 (TRN). ML 3.1 (FDF).

SFG	0.26	263	ePc	56 08.25	0.2
MGG	0.53	226	eP	56 11.80	0.1
			S	56 19.10	
DOG	0.71	249	eP	56 14.50	0.1
PAG	0.77	251	ePd	56 15.01	-0.2
			S	56 24.15	
MDN	1.07	205	eP	56 19.42	0.0
			eS	56 32.46	
BPA	1.17	310	eP	56 21.05	0.2
			S	56 35.10	
MGH	1.31	289	eP	56 23.00	0.1
CRM	1.52	180	iPc	56 25.86	-0.1
FDF	1.56	188	eP	56 26.06	-0.5
			S	56 43.90	
CPB	1.60	327	eP	56 27.03	0.0
			eS	56 43.44	
MVM	1.72	179	eP	56 29.18	0.3
			S	56 49.40	
BIM	1.76	185	eP	56 29.69	0.2
			S	56 50.00	
NEV	1.79	298	eP	56 29.50	-0.3
			eS	56 47.09	

S.D. = 0.2 on 13 of 13 obs.

? MAY 17, 1993 23h 07m 11.65± 1.45s
15.486 N ±23.6km 93.577 W ±13.3km
DEPTH = 105.4 ± 15.3 km
3.7mb (2 obs.)
NEAR COAST OF CHIAPAS, MEXICO (69)

TPX	1.40	114	eP	07 37.00	-0.3
SCX	1.54	36	eP	07 39.50	0.5
			iS	07 59.50	
OXX	3.41	298	eP	08 05.50	1.4
IISM	5.03	314	eP	08 24.00	-2.1
PPM	6.00	307	eP	08 40.00	0.1
			iS	09 46.00	
ALQ	22.57	331	(P)	12 05.00	1.0
	1.0s		2.50nm	3.5mb	
YKA	49.24	347	eP	15 50.50	-0.5
	0.6s		0.90nm	3.9mb	

S.D. = 1.6 on 7 of 7 obs.

% MAY 17, 1993 23h 17m 19.14± 0.64s
26.362 S ± 5.9km 27.472 E ± 6 4km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.7 (PRE).

PRY	0.56	180	eP	17 29.30	-1.2
			S	17 36.00	
KSR	0.72	314	eP	17 33.00	-0.5
			S	17 43.00	
BFS	0.81	229	eP	17 36.50	1.0
			S	17 47.00	
SLR	6 96	50	eP	17 37.90	-0.1
			S	17 47.20	
SEK	1.96	176	eP	17 54.90	1.4X
			S	18 19.00	
SWZ	2.09	246	eP	17 55.00	-0.3
			S	18 20.20	
BFT	2.41	74	eP	18 00.50	0.4
			S	18 29.00	
BLF	2.96	202	eP	18 08.60	0.7
			S	18 43.00	
FRS	3.87	209	e(P)	18 20.50	-0.1

S.D. = 0.8 on 8 of 9 obs.

& MAY 17, 1993 23h 20m 49.22s
37.171 N 117.775 W
DEPTH = 6.8km
6.0mb (100 obs.) 6.0Msz (34 obs.)
CALIFORNIA-NEVADA BORDER REGION (40)
Mw 6.1 (GS), 6.1 (HRV). <GM-P>. MD 6.1 (GM), 6.2 (PAS). ML 6.2 (BRK). Mo=1.0*10**18 Nm (PPT). Minor damage (V) at Independence and Lone Pine, California. Felt (V) at Big Pine, Bishop, Mojave, North Fork and Olancha; (IV) at Benton, Darwin, Inyokern, Lake Isobella, Lemoore, Miramonte, Onyx, Piedra, Reedley, Selma, Sequoia National Park, Strathmore, Three Rivers and Trona, California. Felt (V) at Beatty, Dyer, Goldfield and Tonopah; (IV) at Amargosa Valley, Nevada. Felt throughout a wide area of California and Nevada from the San Francisco Bay area, Sacramento and Los Angeles, California to Carson City, Ely and Las Vegas, Nevada. A large rockslide occurred about 7 kilometers east of Eureko Valley Sond Dunes. Depth 9.6 kilometers from broadband displacement seismograms.
FAULT PLANE SOLUTION: P-Woves
NP1:Strike= 27 Dip=68 Slip= -43
NP2: 136 51 -151
Principal Axes:
T Plg=11 Azm= 85
P 45 344
Comment: The focal mechanism is moderately well controlled and corresponds to strike-slip faulting with a large normal component. The preferred fault plane is not determined.
RADIATED ENERGY
No. of sta: 10 Focal mech. F
Energy 1.8±0.5*10**13 Nm
MOMENT TENSOR SOLUTION
Dep 8 No. of sta: 21
Moment Tensor; Scale 10**18 Nm
Mrr=-1.35 Mtt= 0.10
Mff= 1.26 Mrt=-0.66
Mrf=-0.22 Mtf= 0.63
Principal axes:
T Val= 1.61 Plg=10 Azm=116
N 0.00 19 210
P -1.61 69 1
Best Double Couple:Mo=1.6*10**18
NP1:Strike=185 Dip=39 Slip=-121
NP2: 43 57 -67
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 30S, 72C M.W.: 23S, 39C
Centraid Locotion:
Origin Time 23:20:53.9 0.1
Lat 36.68N 0.02 Lon 118.10W 0.01
Dep 15.0 FIX Holf-duration 2.6
Moment Tensor; Scale 10**18 Nm
Mrr=-1.39 0.01 Mtt= 0.22 0.02
Mff= 1.17 0.02 Mrt=-0.52 0.05
Mrf=-0.77 0.05 Mtf= 0.97 0.02
Principal Axes:
T Val= 2.02 Plg=15 Azm=122
N -0.38 1 213
P -1.64 75 308
Best Double Couple.Mo=1.8*10**18
NP1:Strike=210 Dip=30 Slip= -93

	NP2:		33	60	-88
MRCM	0.77	311	iPc	21 04.06	-0.6
BONR	0.89	332	iPc	21 06.52	-0.2
TNP	1.01	26	iPc	21 09.51	0.7
MEMM	1.05	298	iPc	21 09.04	-0.3
MMPM	1.09	294	iPc	21 09.53	-0.7
TPNV	1.24	100	iPc	21 13.84	1.2
FRI	1.56	264	iP	21 17.59	0.2
			eS	21 57.37	
ISA	1.61	201	ePnd	21 18.21	0.0
KVN	1.89	352	iPd	21 22.52	0.1
GSC	2.02	157	iPc	21 24.05	-0.2
PHBM	2.07	244	P	21 26.92	2.1
PKEM	2.18	240	eP	21 27.11	0.7
PDRM	2.24	249	P	21 28.15	0.8
CMB	2.25	293	ePn	21 27.49	0.1
			eS	22 00.49	
PCRM	2.39	244	P	21 30.05	0.5
CTM	2.41	240	P	21 30.29	0.5
PSRM	2.41	238	P	21 30.56	0.9
PMRM	2.42	236	P	21 30.69	0.8
PRCM	2.46	249	P	21 31.04	0.6
YEG	2.47	226	P	21 31.04	0.4
PTRM	2.48	233	P	21 33.34	2.6
PHAM	2.50	239	ePn	21 30.64	-0.3
PSTM	2.53	241	P	21 31.50	0.1
PRI	2.54	247	eP	21 32.36	0.7
PMCM	2.54	236	P	21 32.18	0.6
ABL	2.60	207	ePnd	21 31.83	-0.7
PTV	2.60	247	P	21 32.52	0.1
LLA	2.60	259	iP	21 33.53	1.1
MOP	2.61	249	P	21 33.95	1.4
VTV	2.62	172	ePn	21 33.60	0.9
BAVM	2.63	281	P	21 35.84	2.9
BCH	2.72	224	ePnd	21 33.68	-0.6
AODM	2.75	303	P	21 35.24	0.7
PSAM	2.75	246	P	21 34.91	0.3
PCL	2.81	269	P	21 38.47	3.0
PMGM	2.82	233	P	21 37.90	2.3
ASMM	2.83	307	P	21 36.13	0.3
PANM	2.88	242	P	21 36.72	0.3
AASM	2.92	296	P	21 38.52	1.5
SSK	2.95	179	ePnc	21 37.50	-0.1
SAO	2.97	263	ePn	21 37.62	0.0
ARN	3.00	275	ePnd	21 37.79	-0.4
PRS	3.01	255	iPd	21 37.62	-0.6
AFHM	3.02	309	P	21 39.11	0.6
AFDM	3.08	306	P	21 39.75	0.5
MHC	3.09	274	iPd	21 39.46	0.0
			eS	22 21.53	
AHRM	3.10	304	P	21 40.24	0.8
COE	3.11	273	ePnd	21 39.46	-0.2
SBC	3.15	211	ePn	21 41.86	1.7
APRM	3.21	303	P	21 41.77	0.8
AFRM	3.25	301	P	21 43.20	1.5
ALNM	3.28	303	P	21 44.75	2.7
PEC	3.31	171	iPc	21 42.64	0.1
AARM	3.31	310	P	21 43.31	0.7
AVRM	3.32	305	P	21 42.84	0.2
HMR	3.34	288	eP	21 44.27	1.3
RPV	3.46	189	ePn	21 43.27	-1.3
NEE	3.48	131	ePnc	21 44.43	-0.5
ARUT	3.50	79	iPc	21 45.11	-0.3
SFT	3.52	275	P	21 48.34	2.9
BKS	3.61	283	ePc	21 46.95	0.1
			eS	22 41.48	
NDHM	3.64	297	P	21 49.45	2.3
ZSP	3.64	284	iPd	21 49.98	2.8
KPK	3.67	312	P	21 48.54	0.8
JEGM	3.75	277	ePn	21 47.70	-1.1
ORV	3.77	310	ePn	21 49.12	0.0
OSUM	3.83	304	P	21 51.79	1.8
PLM	3.88	169	iPc	21 50.65	-0.2
OGOM	3.90	311	P	21 51.10	0.2
GARM	3.96	298	P	21 53.54	1.9
MGL	3.97	313	P	21 52.14	0.2
NTYM	4.06	289	ePn	21 52.78	-0.3
GBMM	4.21	299	P	21 55.97	0.7
MIN	4.36	318	iPd	21 57.81	0.3
LMEM	4.48	320	ePn	22 00.79	1.5
LDBM	4.52	317	P	22 01.22	1.5
MSU	4.63	71	ePc	22 01.13	-0.4
GHMM	4.65	301	P	22 01.63	-0.1
DUG	4.92	51	ePn	22 06.21	0.7
CBX	4.93	169	ePn	22 05.47	-0.2
LBFM	5.25	324	ePd	22 10.84	0.6

17d 23h

ENX	5.35	170	ePn	22	11.53	0.0	ACTO	29.25	65	P	26	52.55	-1.3					eS	39	11.00									
ECX	5.37	170	ePn	22	14.75	3.1	TYNO	29.40	66	P	26	53.50	-1.7	KBS	60.56	10	eP	31	02.00	-0.1								
LGPM	5.42	315	eP	22	12.56	-0.1	BLA	29.63	78	eP	26	57.09	-0.3	TIK	61.95	341	iPd-	31	10.00	-1.6								
RDX	5.44	163	ePn	22	11.95	-1.0		1.2s	103.03nm			5.5mb			1.8s	990.00nm			6.7mb										
LMX	5.56	155	ePn	22	16.80	2.4	STCO	29.91	66	P	27	00.35	0.6				i	31	50.00										
EMX	5.58	157	ePn	22	15.88	1.3	EEO	30.06	59	eP	27	02.50	1.4				e	33	30.00										
KMPM	5.92	305	ePn	22	20.85	1.3	WLVO	30.45	65	P	27	03.10	-1.4				e	39	38.00										
HVU	6.01	38	ePn	22	20.61	-0.3	CEH	30.97	81	P-	27	05.04	-4.1				eS	39	44.00										
DAU	6.03	56	ePnd	22	23.40	2.0	PMR	31.29	331	P	27	20.00	8.3	NNA	62.20	134	eP	31	12.00	-2.0								
SRU	6.03	69	eP	22	22.22	1.0	Z	19s	7.31um			5.4Msz			1 3s	115.38nm			5.9mb										
FHC	6.04	309	eP	22	22.59	1.4	TPX	31.71	128	(P)	27	18.50	2.6		Z 20s	3.55um			5.5Msz										
EMUT	6.06	62	(P)	22	24.91	3.2	CBN	31.81	76	eP	27	16.00	-0.6	YAK	67.28	332	iPd	31	45.00	-1.3								
SPX	6.40	162	ePn	22	27.40	0.8	INK	32.40	349	ePd	27	22.20	0.8		2 0s	510.00nm			6.4mb										
PV09	6.97	76	eP	22	34.90	0.4		1.0s	40.00nm			5.3mb			Z 18s	6.30um			5.9Msz										
PV10	7.02	77	eP	22	36.43	1.2	GAC	32.52	61	eP	27	22.00	-0.6		N 18s	3.40um													
PV08	7.36	76	P	22	40.45	0.5	COL	32.95	337	iPd	27	26.34	0.1		E 18s	5.90um													
TUC	7.52	128	eP	22	41.27	-0.8		1.8s	369.83nm			6.0mb					i	32	10.00										
CROR	8.17	344	P	22	53.34	2.2				epPc	27	29.73	12kmX				i	34	19.00										
JBO	8.43	350	Pd	22	56.97	2.3				ec	27	33.87					iPPP	35	58.00										
BW06	8.43	46	eP	22	55.48	0.5	FBA	32.95	337	eP	27	26.50	0.3				eS	40	45.00										
SSOR	8.45	337	P	22	57.14	2.0		1.8s	405.09nm			6.1mb					iPS	41	07.00										
COR	8.51	332	ePd	22	58.06	2.4	JAO	33.26	46	eP	27	27.00	-2.1	KUR	67.49	310	iPd	31	45.00	-2.9								
MCMT	8.51	24	iPd	22	58.97	3.0	SVW	33.67	327	ePd	27	32.70	0.1				eS	40	46.00										
VGB	8.64	346	ePd	22	59.61	2.0		2.0s	729.60nm			6.3mb		ARE	68.88	132	iPd	31	57.50	0.3								
LNOR	8.70	358	Pd	23	01.13	2.7	GMTN	33.81	70	eP	27	33.00	-0.9	YSS	69.61	314	eP	32	00.50	-0.4								
TPMT	8.85	30	ePd	23	03.52	2.8	PNJ	33.83	70	iP	27	33.17	-0.9				e	32	30.00										
BGMT	9.14	26	iPd	23	07.39	2.7				ScS	38	45.60					e	34	39.00										
ASR	9.41	344	P	23	10.62	2.3				SkP	41	27.33					iS	41	11.00										
ALQ	9.43	100	ePd	23	08.37	-0.3	HRV	35.54	67	iPd	27	47.87	-0.9				e	41	37.00										
HBMT	9.44	23	iPd	23	10.43	1.5				epPc	27	50.69	10kmX				e	41	44.00										
KMOR	9.48	335	P	23	10.98	1.7	CBM	37.58	59	ePd	28	04.30	-1.6	KEV	70.32	12	eP	32	04.00	-0.9								
LRM	9.52	23	ePd	23	11.46	1.5				epPc	28	07.53	11kmX		Z 18s	5.80um			5.9Msz										
SHW	9.61	341	ePnd	23	12.68	1.6	KIP	38.13	257	eP	28	11.98	1.2				LR	05	56.00										
BUT	9.66	22	ePd	23	13.30	1.6		0.9s	103.38nm			5.6mb					eS	41	16.00										
WAH2	9.67	353	P	23	13.70	1.9	HON	38.17	257	P	28	20.00	8.9	KUSJ	70.55	310	eP	32	04.00	-2.7								
LCCM	9.72	25	iPd	23	14.60	2.0	Z	21s	8.50um			5.5Msz		ZOBO	70.78	129	P	32	07.30	-1.8								
EBI	9.74	7	iPd	23	14.23	1.4	MBC	39.17	359	ePd	28	19.40	0.5				S	41	16.00										
MEMT	9.85	29	ePd	23	17.11	2.6		1.0s	33.00nm			4.9mb X					LR	56	28.00										
EBG	9.95	349	Pd	23	17.57	1.9				pP	28	33.00	52kmX	LPB	70.99	129	P	32	08.00	-2.3								
LON	10.03	344	ePd	23	18.48	1.7	FRB	39.57	32	ePd	28	21.70	-0.6		Z 22s	5.19um			5.7Msz										
GOL	10.05	72	ePc	23	18.19	0.8		0.9s	39.00nm			5.1mb					LR	57	03.00										
BMW	10.14	338	P	23	20.15	1.8	LMN	39.96	60	eP	28	28.50	2.7	ASAJ	71.24	311	eP	32	10.10	-0.9								
GLD	10.18	72	ePn	23	19.84	0.8	ADK	43.30	309	eP	28	52.40	-0.7	CNCB	71.28	129	P	32	08.20	-4.0								
			eSg	26	16.49		ILT	45.27	332	iPd	29	08.60	-0.1	DMU	71.54	36	eP	32	21.20	8.6								
SXM	10.22	27	ePd	23	22.03	2.4		1.4s	322.00nm			6.1mb		NRI	72.04	351	iPd-	32	14.00	-1.3								
HRY	10.51	23	ePd	23	24.32	0.9	Z	14s	6.80um			5.7MszX			2.0s	495.00nm			6.3mb										
SAW	10.59	354	P	23	25.13	0.7	N	14s	1.00um								e	32	34.00										
WTV	10.64	352	P	23	26.04	0.8	E	14s	7.10um								e	35	00.00										
DPW	10.70	358	ePd	23	26.68	0.7				i	30	56.00					ePPP	36	39.00										
RMW	10.70	345	ePnd	23	28.02	2.0				iS	35	52.00					eS	41	43.00										
			eS	26	34.72		SMY	48.81	311	P	29	50.00	13.3	DLF	72.10	36	eP	32	23.00	7.1								
GMW	11.01	342	ePnd	23	30.98	0.8	Z	20s	6.51um			5.6Msz		SDF	72.25	14	iP	32	15.50	-1.1								
NEW	11.10	2	ePd	23	32.23	0.9	SDV	51.01	111	eP	29	53.70	-0.5	CCH	72.86	128	P	32	20.00	-1.3								
JCW	11.43	346	P	23	37.91	2.0	TOV	51.05	110	eP	29	53.30	-1.1	NB2	73.68	23	P	32	24.20	-1.0								
STW	11.79	340	P	23	42.16	1.4	BOG	51.41	118	iPc	30	02.00	4.5		0.9s	34.90nm			5.4mb										
MCW	12.08	344	eP	23	46.39	1.7				iS	37	22.00		KONO	74.22	25	eP	32	27.80	-0.4								
PGC	12.20	342	eP	23	47.00	0.8	PSO	51.67	124	eP	30	00.00	0.5		2.1s	614.43nm			6.3mb										
	1 0s	149.00nm			6.2mb		CAR	52.77	107	iPc	30	08.00	0.5	OFUJ	74.70	308	eP	32	29.70	-1.7								
RSSD	12.52	52	eP	23	50.43	-0.5	MGH	52.78	97	eP	30	06.15	-1.3	SIV	75.10	124	P	32	32.60	-1.3								
LTX	14.15	119	eP	24	13.90	1.6	DAG	56.18	16	iPc	30	29.10	-2.4	HFS	75.16	23	eP	32	32.20	-1.4								
ACO	14.91	86	iPc	24	24.10	1.9		0.7s	13.70nm			5.1mb			2 0s	525.30nm			6.2mb										
MEO	15.72	93	iPc	24	34.10	1.4	TRN	56.96	102	eP	30	33.68	-4.1	ANT	75.20	136	eP	32	34.00	-0.3								
OCO	16.44	90	iPc	24	46.80	4.8	TBH	57.32	102	eP	30	34.34	-6.0	BOD	75.81	334	iPd	32	35.90	-1.4								
FNO	16.56	91	iPc	24	40.80	-2.6	PET	57.76	315	ePd-	30	42.00	-1.0		1.7s	171.00nm			5.9mb										
MZX	17.01	142	(P)	24	53.50	4.3		2.0s	440.00nm			6.1mb		MUD	76.47	27	iPc	32	40.30	-0.8								
AGX	20.29	134	(P)	25	32.50	4.2	Z	16s	3.60um			5.6MszX			1.5s	101.00nm			5.7mb										
ULM	20.43	43	iPd	25	32.60	2.9	N	16s	1.80um					UPP	76.57	21	iP	32	40.50	-1.0								
CCM	21.02	79	eP	25	35.85	0.1	E	16s	3.90um								i	32	47.70										
	2.3s	290.38nm			5.2mb					e	32	50.00		KAF	76.89	16	iP	32	42.00	-1.4								
OLY	21.24	87	eP	25	38.22	0.2				ePPP	34	12.00			1.0s	87.10nm			5.8mb										
CCX	21.43	140	(P)	25	46.00	5.7				eS	38	48.00		NIIJ	77.49	307	P	32	46.10	-1.0								
FVM	21.67	79	eP	25	42.00	-0.4				ePS	39	04.00		HJA	77.71	132	ePd	32	48.90	0.6								
	1.0s	385.00nm			5.8mb		TPT	59.00	214	iPc	30	50.80	-1.2	NUR	77.90	18	iP	32	47.50	-1.4								
MRX	22.64	136	(P)	25	55.00	2.9		2.0s	753.40nm			6.5mb			0.9s	79.60nm			5.8mb										
SIT	23.07	335	eP	25	58.70	2.6	RUV	59.08	214	iPc	30	51.50	-1.0				eS	42	40.00										
SIT	23.07	335	P	26	10.00	13.9		1.4s	711.00nm			6.6mb		FLN	77.95	37	iPd	32	48.90	-0.5								
Z	18s	11.10um			5.3Msz		PMO	59.14	214	iPc	30	53.80	0.8		1.4s	108.05nm			5.8mb										
UNM	24.09	132	(P)	26	12.00	5.4		1.8s	801.00nm			6.5mb			Z 20s	5.20um			5.9Msz										
IIA	24.54	132	(P)	26	14.50	3.9	VAH	59.23	214	iPc	30	52.40	-1.2	GRR	78.03	37	iPd	32	49.70	-0.1								
PPM	24.63	132	(P)	26	14.00	1.9		1.7s	858.70nm			6.6mb		VLA	78.08	315	iPd	32	56.00	5.8								
YKA	25.43	3	eP	26	20.00	1.3	MGD	59.29	324	ePd-	30	53.00	-0.6				i	35	42.00										
	1.0s	52.00nm			5.2mb			2.0s	610.00nm			6.4mb		D8N	78.14	32	iP-	32	51.00	0.7								
IISM	25.44	130	(P)	26	21.00	1.8	Z	20s	4.10um			5.6Msz			Z 20s	7.00um			6.0Msz										
ACX	25.68	137	(P)	26	04.00	-17.5	N	20s	3.90um								ePcP	33	08.00										
FCC	26.53	28	eP	26	34.50	5.5	E	20s	2 40um								ePP	35	52.00										
OXX	27.30	131	(P)	26	40.00	3.3				e	33	09.00		LPF	78.18	38	iPd	32	50.40	-0.3								
ELF	28.34	66	P	26	44.05	-1.6				ePPP	34	34 00			1.8s	230.45nm			6.0mb										

CHJJ	78.21	306	P	32	49.90	-1.2	WLS	81.81	33	P	33	10.70	0.5	WAR	83.98	24	e(P)	33	20.00	-1.2
WIT	78.24	31	eP	32	53.00	2.1	STR	81.87	33	P	33	11.38	1.0				e	34	30.00	
COP	78.24	26	iP-	32	54.00	3.1	ECH	81.88	34	P	33	10.70	0.2				e(S)	44	00.00	
Z	20s	4.68um				5.8Msz	MOX	81.88	30	ePd-	33	10.20	-0.3	BAO	83.98	115	iPd	33	21.60	-0.3
		eS	42	56.00				2.3s	436.00nm				6.1mb				e	33	26.10	
LDF	78.24	37	eP	32	50.70	-0.3	Z	20s	7.50um				6.0Msz	EBR	83.99	42	iPd	33	20.20	-1.3
	1.4s	96.70nm				5.7mb			eS	43	31.00						eS	43	40.00	
MAJO	78.41	307	ePd	32	50.45	-1.8	CAF	81.89	38	iPd	33	10 40	-0.3	TSY	84.02	50	ePd	33	22.50	0.8
	1.4s	158.87nm				5.9mb	CLL	81.90	29	iPd	33	10.60	0.1	ECHE	84.06	44	iPc	33	23.26	1.3
		epPc	32	54.18	12kmX			2.1s	220.00nm				5.9mb	GEC2	84.14	30	e(P)	33	22.20	0.0
MAT	78.41	307	eP	32	51.00	-1.2			eS	43	30.00				1.0s	26.00nm				5.4mb	
	1.5s	147.22nm				5.8mb	BSF	82.00	34	P	33	11.38	0.1	ECOG	84.17	47	iPd	33	22.59	-0.1
Z	20s	2.48um				5.5Msz	RTBS	82.03	140	ePd	33	12.00	0.7	ETER	84.18	40	iPc	33	23.61	1.2
		eS	42	45.00			EVAL	82.09	48	iPd	33	11.60	-0.2	RRL	84.18	36	Pd	33	23.14	0.4
ERUA	78.72	45	eP	32	53.97	0.2	MOF	82.14	34	P	33	12.32	0.4	ORO	84.20	35	P	33	23.20	0.6
UCC	78.74	33	P	32	54.00	0.3	PAB	82.19	46	ePd	33	12.00	-0.4	RSP	84.22	36	Pd	33	23.32	0.5
WTS	78.90	31	eP	32	55.00	0.5		1.4s	59.50nm				5.5mb	MOTA	84.25	32	iPd	33	23.20	0.3
	2.0s	444.40nm				6.2mb			esPc	33	16.06				1.9s	440.00nm				6.4mb
SNF	78.91	33	iPc	32	55.20	0.6	RTCB	82.23	139	iPd	33	12.70	0.2	TCA	84.36	137	ePd	33	22.00	-1.4
DOU	79.35	34	Pc	32	57.40	0.3	HOF	82.25	30	eP	33	12.10	-0.3	EHUE	84.37	46	eP	33	24.21	0.6
ENN	79.44	33	ePd	32	57.50	0.0		2.2s	300.00nm				6.0mb	SOTA	84.40	32	iPd	33	23.90	0.3
	1.5s	200.00nm				5.9mb	YONJ	82.26	308	P	33	11.80	-0.9		1.8s	389.00nm				6.3mb
FSA	79.54	134	eP	32	57.90	-0.4	RTLL	82.27	139	iPc	33	12.00	-0.7	SHNJ	84.42	309	P	33	23.30	-0.5
BSD	79.56	25	eP	32	59.00	0.9	EPF	82.36	41	iPd	33	13.00	-0.1	RSA	84.43	50	eP	33	24.50	0.7
	1.8s	273.00nm				5.9mb		1.3s	50.90nm				5.5mb	BHB	84.46	36	Pd	33	23.92	0.1
MFF	79.61	38	eP	32	58.30	-0.2	LOMF	82.38	34	P	33	13.42	0.2	WATA	84.46	32	iPd	33	24.20	0.2
	1.6s	193.40nm				5.8mb	GRF	82.47	31	iPd	33	14.40	0.8	EGUA	84.47	47	iPd	33	24.28	0.2
BNS	79.82	32	ePd	32	59.60	0.0		2.1s	767.00nm				6.5mb	MNK	84.48	20	eP	33	21.00	-2.7
Z	20s	16.00um				6.4Msz	Z	20s	12.00um				6.3Msz		1.8s	685.00nm				6.6mb
PUL	79.88	16	eP	33	00.00	0.3	FEL	82.51	33	P	33	14.31	0.4	Z	20s	10.00um				6.2Msz
	2.2s	660.00nm				6.2mb	RTPR	82.52	137	ePd	33	12.70	-1.2	N	20s	6.70um				
Z	18s	12.00um				6.3Msz	PEL	82.59	142	eP+	33	13.50	-0.8	E	20s	5.80um				
N	18s	8.00um					EGRA	82.60	42	iPd	33	15.83	1.5			e	36	38.00		
E	16s	4.60um					BBS	82.60	34	P	33	15.03	0.7			eS	43	46.00		
		eS	43	02.00			ETOR	82.61	44	iPd	33	14.72	0.2			ePS	44	40.00		
		e	43	10.00			BRG	82.61	28	iPd	33	13.80	-0.4	AVE	84.49	52	iP	33	25.00	0.8
		ePS	43	44.00				2.0s	380.00nm				6.2mb			i	33	59.00		
HIA	80.01	326	iPd	32	59.50	-1.2	Z	16s	6.50um				6.1MszX	OGA	84.59	32	eP	33	25.50	0.8
		epPc	33	02.65	10kmX		N	18s	5.00um						1.8s	321.00nm				6.3mb
WLF	80.35	33	iPd	33	02.82	0.4	E	18s	7.50um					CDR	84.62	37	iP	33	24.90	0.3
	2.2s	140.50nm				5.6mb			eS	43	36.00			PZZ	84.64	36	Pd	33	25.38	0.5
TBT	80.39	61	ePd	33	02.76	-0.2	CFA	82.61	139	ePc	33	14.00	-0.5	BHG	84.70	31	iPd	33	25.50	0.5
		epPc	33	06.23	11kmX		TKSJ	82.67	307	P	33	14.60	-0.2		2.0s	590.00nm				6.5mb
HYF	80.50	37	iPd	33	03.10	-0.2	EHOR	82.82	47	iPd	33	15.18	-0.4	DOI	84.71	36	P	33	25.10	-0.1
CIT	80.53	331	eP	33	03.50	0.1	SSB	82.85	37	P	33	15 96	0.3	RAC	84.83	27	iP-	33	26.40	0.9
		e	36	10.00			SALF	82.99	40	P	33	18.14	1.7	Z	15s	8.00um				6.2MszX
		eS	43	20.00			MDZ	83.31	140	i(P)	33	18.40	0.4	N	15s	12.00um				
LSF	80.68	38	eP	33	04.00	-0.3	EPRU	83.40	48	eP	33	19.25	0.6	KMR	84.94	30	iP-	33	26.40	0.3
	1.5s	146.25nm				5.8mb	KSP	83.51	27	iPd	33	19 00	0.1	RFA	85.00	141	ePd	33	26.00	-0.5
RTRS	80.84	139	ePd	33	05.30	0.2		1.7s	270.00nm				6.2mb	ENR	85.00	36	Pd	33	25.38	-1.2
EPLA	80.85	46	iPd	33	05.05	-0.3			e	36	26.00			EALH	85.01	45	P	33	27.94	1.3
TCF	80.99	37	iPd	33	05.60	-0.3	RSL	83.53	36	P	33	20.09	0.8	LRG	85.07	37	iPd	33	26.90	0.1
	1.4s	103.70nm				5.7mb	PRU	83.55	29	iPd	33	19.00	-0.1		2.0s	585.45nm				6.5mb
SSF	81.06	36	iPd	33	06.00	-0.2		2.0s	596.00nm				6.5mb	Z	22s	7.57um				6.0Msz
	1.7s	234.55nm				5.9mb	Z	15s	5.30um				6.0MszX	TOUF	85.08	36	P	33	27.38	0.2
LOR	81.07	36	iPd	33	06.20	-0.1	N	15s	5.80um					MOS	85.10	14	iPd	33	27.00	0.2
Z	20s	8.90um				6.1Msz	E	17s	5.50um						2.0s	1100.00nm				6.7mb
BRN	81.10	28	ePc	33	07.50	1.2			e	33	25.80			Z	16s	12.60um				6.4MszX
BGF	81.10	37	iPd	33	06.10	-0.4			eSKS	43	49.00			N	16s	9.60um				
	1 0s	73.40nm				5.7mb	MTHF	83.55	40	P	33	19.59	0.3	E	16s	5.00um				
ECRI	81.14	43	iPd	33	07.03	0.2	WET	83.57	30	eP	33	19.50	0.2			e	36	52.00		
BRNL	81.15	28	ePd	33	06.70	0.2		2.0s	476.00nm				6.4mb			e	44	48.00		
AVF	81.18	37	iPd	33	06.30	-0.5	Z	16s	8.00um				6.2MszX	CALN	85.10	37	P	33	27.51	0.3
	0.9s	46.85nm				5.5mb	ELUQ	83.57	47	eP	33	20.47	1.0	ACU	85.12	44	P	33	28.92	1.6
MAF	81.21	37	iPd	33	06.80	-0.3	EJIF	83.60	49	eP	33	20.80	1.2	FRF	85.13	37	iPd	33	26.80	-0.4
	1.0s	67.20nm				5.6mb	IRK	83.67	336	iP-	33	19.00	-0.7		1.7s	311.75nm				6.3mb
LFF	81.22	39	iPd	33	07.00	-0.1		2.0s	64.00nm				5.5mb	ROB	85.16	36	Pd	33	26.85	-0.5
	1.2s	113.35nm				5.8mb			e	36	34.00			AUTN	85.18	36	P	33	27.87	0.2
LBF	81.33	36	iPd	33	07.30	-0.4			eS	43	42.00			AURF	85.21	36	P	33	27.74	0.0
RJF	81.35	39	iPd	33	07.40	-0.4			e	49	18.00			LMR	85.24	37	iPd	33	27.50	-0.2
	1.1s	73.50nm				5.7mb	FUR	83.69	32	iPd	33	20.50	0.6		1.6s	281.10nm				6.2mb
Z	21s	7.50um				6.0Msz		1.4s	398.00nm				6.4mb	MOY	85 24	337	iPd	33	28.70	1.2
VITF	81.35	34	P	33	08.23	0.5	Z	16s	10.00um				6.3MszX		1.8s	330.00nm				6.2mb
CYA	81.48	135	ePd	33	07.80	-0.8	LPL	83.71	36	iPc	33	20.90	0.6	SAOF	85.24	36	P	33	27.74	0.0
SMF	81.52	36	iPd	33	08.10	-0.5	LPG	83.73	36	iPd	33	21.10	0.6	CKI	85.25	36	P	33	27.30	-0.5
	1.3s	82.30nm				5.6mb		1.3s	139.35nm				6.0mb	OJC	85.28	26	iPc	33	27.90	0.1
WKYJ	81.53	307	P	33	08.70	-0.3	EVIA	83.86	45	iPd	33	21.04	0.0		1.8s	319.00nm				6.2mb
GUD	81.56	45	iPd	33	09.14	0.0	KHC	83.86	30	P	33	21.10	0.4			i	33	34.00		
LANF	81.58	33	P	33	09.70	0.7		1.8s	250.50nm				6.1mb			i	33	39.60		
LPO	81.62	39	eP	33	09.20	0.0	Z	18s	9.00um				6.2Msz	SBF	85.28	36	P	33	27.87	-0.1
	1.3s	49.10nm				5.4mb	N	18s	2.20um					PCP	85.28	35	Pd	33	27.26	-0.7
SRBF	81.65	33	P	33	09.09	-0.2	E	18s	5.00um					REVF	85.34	36	P	33	27.51	-0.8
HAU	81.67	34	iPd	33	09.30	-0.2			e	33	28.80			SAL	85.36	34	P	33	28.30	0.1
	1.4s	118.95nm				5.8mb			e	33	35.50			FIN	85.38	36	P	33	27.49	-1.0
Z	22s	10.88um				6.2Msz			SKS	43	50.00			IMI	85.46	36	P	33	28.13	-0.8
HOFF	81.68	33	P	33	10.44	1.0	LSD	83.95	35	Pd	33	22 00	0.5	CTI	85.50	33	P	33	28.80	-0.3
CDF	81.78	33	P	33	10.70	0.6	CPS	83.98	49	iPc	33	22.50	1.0	OBN	85.51	14	iPd	33	28.53	-0.3

17d 23h

| | | |

CER	144.96	97	iPKPd	40 26.50	-2.3
	1.3s	264.00nm			
SUR	145.84	94	ePKP	40 30.85	0.2
MTD	146.20	61	iPKPc	40 44.40	13.0
BUL	146.20	69	iPKPc	40 37.50	6.1
	1.2s	179.69nm			
SWZ	147.39	83	ePKP	40 33.90	0.7
	1.3s	60.00nm			
KSR	148.01	80	iPKPd	40 35.00	0.7
	1.0s	230.00nm			
FRS	148.48	87	ePKP	40 33.60	-1.0
	0.7s	50.00nm			
BLF	148.92	86	ePKP	40 37.00	1.4
	0.7s	44.00nm			
CIR	148.93	67	iPKPc	40 42.50	6.9
PRY	148.98	81	iPKPc	40 38.50	2.8
	0.7s	38.00nm			
SLR	149.04	78	iPKPc	40 32.60	-3.2
	0.7s	111.00nm			
	Z 18s	11.50um		6.7Msz	
MAW	149.52	180	iPKPd	40 39.00	4.0
	1.1s	141.30nm			
SEK	149.72	83	iPKPd	40 40.50	3.7
	0.7s	83.00nm			
BFT	150.39	77	iPKPc	40 43.00	5.0
	0.8s	33.00nm			
GRM	150.74	93	iPKPc	40 43.00	5.0
	0.8s	92.00nm			
	515 obs. associated				

? MAY 17, 1993 23h 21m 13.18± 3.17s
31.376 S ±42.4km 68.573 W ±18.5km
DEPTH = 101.9 ± 32.2 km
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.10	63	iPc	21 28.00	0.1
ZON	0.19	208	iPd	21 27.80	-0.3
			eS	21 38.80	
RTCB	0.22	240	ePd	21 28.30	0.0
CFA	0.37	129	eP	21 28.70	0.1
			S	21 40.20	
RTBS	0.80	249	ePd	21 32.00	0.1
			S	21 46.00	
RTPR	2.07	59	ePc	21 47.20	0.0
			S	22 13.50	

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

MAY 17, 1993 23h 25m 35.77± 0.48s
37.170 N ± 4.9km 117.919 W ± 4.6km
DEPTH = 5.0km (geophysicist)
4.7mb (3 obs.)
CALIFORNIA-NEVADA BORDER REGION (40)
ML 4.5 (GS). MD 4.4 (PAS), 3.9 (GM). Felt slightly at Beatty, Nevodo.

MRCM	0.69	317	eP	25 48.86	-0.6
CLKR	0.83	300	P	25 52.59	0.0
MMPM	0.99	297	iPd	25 54.19	-1.0
FRI	1.44	263	P	26 01.20	-1.4
PWMM	1.98	249	P	26 11.26	1.0
MSTM	2.11	291	P	26 13.94	1.8
CMB	2.14	295	ePn	26 12.18	-0.5
			iPg	26 14.37	
PARM	2.15	245	P	26 14.07	1.2
PMRM	2.32	234	P	26 15.84	0.5
MRFM	2.33	298	P	26 18.04	2.7X
YEG	2.39	224	P	26 21.09	4.8X
PHAM	2.40	237	eP	26 16.53	0.1
PMCM	2.45	235	P	26 22.29	5.2X
PTV	2.49	246	P	26 22.55	4.9X
ABL	2.54	205	eP	26 17.88	-0.7
PMGM	2.73	231	P	26 21.52	0.5
SAO	2.85	263	(P)	26 22.15	-0.7
ARN	2.89	275	eP	26 24.36	1.0
SSK	2.96	176	(Pn)	26 23.40	-1.1
JEGM	3.64	277	eP	26 33.53	-0.4
NTYM	3.95	289	(P)	26 37.77	-0.6
			eS	27 41.70	
DUG	5.01	51	ePg	27 07.57	14.1X
ULM	20.51	43	eP	30 18.00	0.7
FVM	21.78	79	(P)	30 30.50	0.2
	1.0s	37.00nm		4.8mb	
INK	32.38	349	eP	32 08.50	0.5
	1.3s	10.00nm		4.6mb	
JAQ	33.35	46	eP	32 17.00	0.4
LMN	40.06	60	eP	33 17.00	3.5X

CLL	81.96	29	iPd	38 00.90	3.2X
	1.3s	13.00nm		4.9mb	
GRF	82.53	31	eP	37 59.70	-1.0
			e	38 04.90	

S.D. = 0.9 on 22 of 29 obs.

& MAY 17, 1993 23h 36m 09.90s
37.145 N 117.780 W
DEPTH = 13.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 4.9 (BRK). MD 5.1 (PAS).

BCKR	0.73	320	P	36 20.46	-3 5
CASR	0.75	305	P	36 23.92	-0.6
MRCM	0.78	312	iPc	36 24.15	-0.9
CLKR	0.94	298	P	36 25.61	-2.2
MCSM	1.03	300	P	36 28.87	-0.4
TNP	1.04	25	iPc	36 28.89	-0.4
MEMM	1.06	300	iPc	36 29.24	-0.3
WLHM	1.08	204	P	36 29.20	-0.9
VPEM	1.19	181	P	36 31.45	-0.5
RCWM	1.20	175	P	36 31.29	-0.7
WCHM	1.28	191	P	36 32.72	-0.9
NMC	1.30	184	P	36 33.30	-0.5
WASM	1.54	204	P	36 37.56	0.3
FRI	1.55	265	iP	36 37.49	0.3
WBSM	1.63	190	P	36 38.56	0.0
WOFM	1.77	205	P	36 40.97	0.4
WJPM	1.82	198	P	36 41.34	0.1
PHBM	2.06	245	P	36 46.65	2.1
PWMM	2.08	251	P	36 46.90	2 1
BMTC	2.11	198	P	36 48.31	2.8
MSTM	2.22	291	P	36 49.41	2.5
PDRM	2.23	250	P	36 49.38	2.3
CMB	2.25	294	ePc	36 47.54	0.1
			eS	37 16.18	
PCRM	2.38	245	P	36 51.00	1.8
CTM	2.39	240	P	36 50.49	1.1
PSRM	2.39	238	P	36 51.59	2.2
PMRM	2.40	236	P	36 52.06	2.6
MCUM	2.40	291	P	36 47.74	-1.8
YEG	2.45	227	P	36 53.00	2.7
GHC	2.45	238	P	36 51.88	1 6
PTRM	2.46	234	P	36 52.41	2.0
CRGC	2.47	220	P	36 53.29	2.8
PRI	2.53	248	eP	36 51.28	-0.1
PTV	2.58	247	P	36 54.27	2.2
LLA	2.59	259	eP	36 53.26	1.0
			eS	37 32.18	
MOP	2.60	250	P	36 53.47	1.1
ADWM	2.75	299	P	36 55.63	1.1
AODM	2.76	303	P	36 55.15	0.6
PMGM	2.80	233	P	36 57.15	2.0
ASMM	2.84	307	P	36 56.29	0.4
PANM	2.87	243	P	36 56.38	0.3
AASM	2.93	297	P	36 58.31	1.3
ARJM	2.95	302	P	36 57.27	0.0
SAO	2.96	264	eP	36 57.52	0.1
			eS	37 41.97	
PRS	3.00	255	eP	36 57.65	-0.3
ARN	3.00	275	ePn	36 58.74	0.7
MHC	3.09	275	ePc	36 59.76	0.4
			eS	37 41.54	
AHRM	3.11	304	P	37 00.51	1.0
COE	3.11	273	eP	37 00.78	1.2
BAPM	3.25	254	P	37 02.99	1.3
PEC	3.28	171	eP	37 01.37	-0.7
AVRM	3.33	305	P	37 02.75	0.1
HMR	3.35	289	(P)	37 04.67	1.8
JRGM	3.35	269	P	37 04.32	1.4
GCC	3.37	269	eP	37 01.94	-1.3
ARUT	3.51	78	ePn	37 04.19	-1.2
STAN	3.52	276	eP	37 07.00	1.7
BKS	3.62	283	ePc	37 06.44	-0.3
			eS	38 01.89	
ZSP	3.65	284	eP	37 08.86	1.7
JEGM	3.75	277	(P)	37 09.51	0.8
MGA	3.77	279	P	37 11.06	2.1
ORV	3.79	311	eP	37 15.83	6.6
ORV	3.79	311	ePn	37 08.74	-0.5
OBHM	3.82	312	P	37 10.18	0.4
OSUM	3.85	305	P	37 11.03	1.0
PLM	3.86	168	eP	37 09.86	-0.5
NTYM	4.06	289	eP	37 11.27	-1.7
MIN	4.38	318	eP	37 20.95	3.3
LMEM	4.50	320	(P)	37 20.96	1.5

MSU	4.64	71	ePn	37 20.68	-0.9
			ePg	37 36.09	
GLA	4.75	148	eP	37 20.34	-2.5
WDC	5.06	314	ePc	37 40.94	13.8
LBFM	5.27	324	ePn	37 31.12	0.7
LGPM	5.44	315	eP	37 32.23	-0.5
HVU	6.03	38	eP	37 40.97	-0.1
DAU	6.05	55	ePn	37 42.61	1.1
FHC	6.06	309	eP	37 43.76	2.4
EMUT	6.08	62	ePn	37 42.57	0.7
			ePg	38 03.35	
PV09	6.98	76	eP	37 55.62	1.1
PV08	7.37	76	ePn	38 00.55	0.5
MCMT	8.53	24	eP	38 29.20	13.0
SHW	9.63	341	(P)	38 34.28	3.0
ULM	20.46	43	eP	40 52.50	2.9
YKA	25.45	3	eP	41 38.90	0.2
	0.9s	1.80nm		3.7mb	
	84 obs. associated				

& MAY 17, 1993 23h 42m 05.14s
37.048 N 117.792 W
DEPTH = 0.4km
CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. MD 4.0 (GM), 4.0 (PAS). ML 4.2 (BRK), 4.0 (GS).

CWCR	0.61	318	P	42 17.14	-0.1
BHPR	0.61	295	P	42 17.31	0.0
BCKR	0.80	325	P	42 20.59	-0.4
CASR	0.80	311	P	42 20.92	-0.2
MRCM	0.84	318	iPc	42 21.61	-0.4
CLKR	0.99	304	P	42 24.15	-0.8
WLHM	0.99	205	P	42 24.47	-0.5
MCSM	1.07	305	P	42 25.89	-0.5
VPEM	1.10	181	P	42 27.75	1.0
RCWM	1.10	174	P	42 27.04	0.3
MEMM	1.10	304	iPc	42 26.38	-0.3
TNP	1.13	24	iPc	42 27.49	0.2
NMC	1.21	184	P	42 29.12	0.6
WORM	1.40	195	P	42 32.04	0.2
WASM	1.45	206	P	42 33.06	0.4
WBSM	1.53	191	P	42 34.09	0.1
FRI	1.53	268	iP	42 33.65	-0.2
WOFM	1.68	207	P	42 36.66	0.6
SNDC	1.95	192	P	42 40.99	1.1
TEJ	1.95	202	P	42 42.36	2.5
KVN	2.01	353	eP	42 40.76	-0.2
PWMM	2.04	253	P	42 42.72	1.7
ARVC	2.09	204	P	42 45.09	3.2
PKEM	2.11	243	eP	42 43.35	1.2
			eS	43 10.50	
PDRM	2.19	252	P	42 45.06	1.8
PARM	2.20	250	P	42 45.38	1.9
MSTM	2.25	293	P	42 46.11	2.0
CMB	2.28	296	ePn	42 44.46	-0.3
PSRM	2.33	240	P	42 47.13	1.8
CTM	2.33	242	P	42 47.62	2.1
PMRM	2.34	238	P	42 46.22	0.7
YEG	2.38	228	P	42 48.52	2.4
CRGC	2.39	222	P	42 49.38	3.1
MARC	2.40	212	P	42 48.79	2.5
PTRM	2.40	235	P	42 48.41	2.1
PRCM	2.41	252	P	42 47.59	1.1
TMB	2.41	216	P	42 49.70	3.1
PHAM	2.42	241	ePn	42 48.28	1.6
MCUM	2.43	293	P	42 46.70	0.0
BRMM	2.44	266	P	42 47.84	1.0
BMSM	2.44	262	P	42 48.50	1.6
PMCM	2.46	238	P	42 49.30	2.1
MRFM	2.47	300	P	42 50.14	2.7
PRI	2.48	249	eP	42 49.60	2.0
			eS	43 23.23	
WKR	2.51	242	P	42 50.40	2.4
PTV	2.54	249	P	42 49.74	1.5
LLA	2.56	261	eP	42 50.05	1.4
BCH	2.63	226	ePn	42 51.07	1.5
			eS	43 26.20	
MNHM	2.64	295	P	42 53.41	3.7
PSAM	2.69	249	P	42 51.61	1.1
RYS	2.71	208	P	42 55.27	4.3
PMGM	2.73	235	P	42 52.90	1.8
LRC	2.73	254	P	42 51.84	0.8
EKH	2.74	263	P	42 53.09	1.9
ADWM	2.79	301	P	42 55.45	3.5
PCL	2.80	271	P	42 53.43	1.4
AODM	2.80	305	P	42 56.12	4.0

17d 23h

SCCM	2.85	223	P	42	53.86	1.0	AODM	2.80	302	P	52	44.04	0.6				Pg	53	51.64				
COSM	2.89	280	P	42	55.31	1.9	EKH	2.82	261	P	52	46.18	2.5				Sg	55	08.13				
BVYM	2.92	265	P	42	55.04	1.3	RYS	2.83	209	P	52	47.20	3.1	PV10	6.98	77	ePn	53	45.00	2.2			
ALAM	2.93	302	P	42	54.36	0.5	PMGM	2.85	234	P	52	45.50	1.4	PV08	7.31	76	ePn	53	49.49	1.9			
SAO	2.94	266	eP	42	54.59	0.6	PCL	2.86	269	P	52	45.41	1.1				ePg	54	15.88				
PRS	2.96	257	eP	42	54.02	-0.3	ASMM	2.88	306	P	52	45.13	0.4				eS	55	49.81				
CMMM	2.98	279	P	42	54.59	-0.1	ALAM	2.93	300	P	52	45.95	0.6	TUC	7.47	128	iPnc	53	49.42	-0.1			
ARN	3.00	277	ePn	42	54.49	-0.4	SSK	2.93	180	ePn	52	44.65	-0.9				eS	55	52.30				
MHC	3.09	277	ePc	42	56.05	-0.1				ePg	52	51.99		LTX	14.09	120	eP	55	22.30	2.5			
			eS	43	42.83					eS	53	29.16		ULM	20.41	43	eP	56	45.50	7.7			
PAPM	3.09	250	P	42	56.88	0.7	SCCM	2.97	223	P	52	48.52	2.6	FVM	21.62	79	eP	56	49.76	-0.5			
AFHM	3.09	311	P	43	01.92	5.7	AASM	2.98	296	P	52	47.02	1.1		1.1s		9.61nm			4.1mb			
AFDM	3.15	308	P	43	02.46	5.5	GHS	2.99	270	P	52	48.13	2.0	ELC	22.65	81	eP	57	01.57	1.0			
JRRM	3.15	271	P	42	57.08	0.2	ARJM	2.99	302	P	52	46.95	0.8	YKA	25.44	3	eP	57	27.50	0.2			
AHRM	3.16	306	P	43	02.16	5.1	BVYM	2.99	263	P	52	47.40	1.2		0.8s		0.70nm			3.4mb			
PEC	3.19	171	eP	42	57.71	0.2	SAO	3.02	264	ePnd	52	45.73	-0.8	GEC2	84.13	30	P	04	31.30	0.6			
CVAL	3.21	281	P	43	00.71	2.9				eS	53	31.82			1.0s		1.59nm			4.2mb			
AMC	3.24	273	P	42	59.45	1.2	PRS	3.05	256	eP	52	45.83	-1.1				e	04	33.80				
APRM	3.27	305	P	43	04.61	6.1	ARN	3.06	275	ePn	52	46.60	-0.5				e	16	16.20				
HMR	3.37	290	ePn	43	01.14	1.1				eP*	52	48.98			96 obs. associated								
AARM	3.38	312	P	43	07.40	7.0				ePg	52	52.90		---									
ARUT	3.54	77	(Pn)	43	03.41	0.7				eSn	53	27.80		& MAY 17, 1993 23h 54m 11.24s									
BKS	3 63	285	ePc	43	05.18	1.4	AFHM	3.08	309	P	52	47.90	0.5	37.180 N 117.952 W									
JEGM	3.75	279	ePn	43	05.84	0.3	ADR	3.13	271	P	52	49.34	1.3	DEPTH = 9.2km									
PLM	3.76	168	ePn	43	05.31	-0.6	AFDM	3.14	306	P	52	48.72	0.5	CALIFORNIA-NEVADA BORDER REGION (40)									
ORV	3.84	312	ePn	43	06.88	0.0	MHC	3.14	275	ePc	52	48.03	-0.3	<PAS-P>. MD 3.4 (GM), 3.4 (PAS).									
NTYM	4.09	291	ePn	43	10.90	0.7				eS	53	34.83											
MIN	4.44	319	eP	43	17.97	2.5	AHRM	3.15	304	P	52	49.09	0.7	CWCR	0.42	318	P	54	19.53	-0.4			
MSU	4.68	70	ePn	43	18.83	-0.2	COE	3.16	273	(P)	52	49.30	0.7	BHPR	0.44	286	P	54	19.97	-0.4			
DUG	5.01	50	(Pn)	43	23.36	-0.1				ePg	52	58.01		MRCM	0.66	318	iPc	54	23.88	-0.7			
			eS	44	44.36					eS	53	36.83		CLKR	0.81	301	P	54	26.56	-0.6			
HVU	6.12	38	ePn	43	36.30	-2.8	JRRM	3.21	269	P	52	50.06	0.8	BONR	0.82	340	(P)	54	26.75	-0.7			
PV09	7.01	75	(Pn)	43	51.34	-0.5	HERM	3.22	265	P	52	54.93	5.6	MEMM	0.92	302	iPc	54	28.78	-0.2			
PV08	7.40	75	ePn	43	58.75	1.4	APRM	3.26	303	P	52	50.15	0.2				eS	54	42.95				
MCMT	8.62	24	eP	44	17.80	3.5	PEC	3.28	172	eP	52	49.45	-0.9	MMPM	0.96	297	iPc	54	29.09	-0.7			
ULM	20.53	43	eP	46	50.00	2.4				S	53	40.92					eS	54	43.72				
	91 obs. associated						AFRM	3.31	301	P	52	56.82	6.2	WLHM	1.07	196	P	54	28.63	-3.0			
---							SOS	3.37	272	P	52	52.54	0.9	TNP	1.07	33	eP	54	30.25	-1.4			
& MAY 17, 1993 23h 51m 56.55s							AVRM	3.37	305	P	52	51.59	0.0				eS	54	46.10				
37.151 N 117.711 W							HMR	3.40	288	ePn	52	55 62	3.7	RCWM	1.25	169	P	54	32.27	-2.4			
DEPTH = 0.2km										eS	53	49.18		WORM	1.50	189	P	54	35.36	-3.0			
4.0mb (3 obs.)							ABJM	3.40	307	P	52	58.77	6.8	ISA	1.57	196	(P)	54	37.47	-1.9			
CALIFORNIA-NEVADA BORDER REGION (40)							GCC	3.43	269	eP	52	51.93	-0.4	WBSM	1.65	185	P	54	38.40	-2.2			
<GM-P>. MD 4.1 (GM), 4.3 (PAS).							ARUT	3.46	78	iPnc	52	53.05	0.1	WOFM	1.75	201	P	54	43.13	1.1			
ML 4.2 (BRK), 4.1 (GS).										ePg	53	04.45		PKEM	2.06	238	P	54	45.68	-0.8			
										eS	53	49.36		MSTM	2.08	291	P	54	46.80	0.1			
CASR	0.79	303	P	52	12.50	0.1	CCYM	3.51	278	P	52	54.75	1.2	CMB	2.11	295	(P)	54	48.99	1.8			
MRCM	0.82	310	iPc	52	13.06	0.2	AOHM	3.57	310	P	53	02.10	7.8	MCUM	2.26	291	P	54	51.86	2.5			
BONR	0.93	330	iPc	52	15.53	0.4	NLHM	3.65	287	P	52	58.12	2.6	BRMM	2.32	262	P	54	52.15	1.9			
CLKR	0.99	297	P	52	15.85	-0.6	BKS	3.67	283	ePc	52	55.03	-0.7	BAVM	2.49	282	P	54	54.50	1.8			
TNP	1.01	23	iPd	52	18.20	1.5	ZSP	3.70	284	eP	52	54.21	-2.0	ABL	2.54	204	P	54	53.00	-0.5			
MEMM	1.11	298	iPc	52	17.95	-0.2	JEGM	3.80	277	ePn	52	57.90	0.2	ARN	2.86	274	P	55	01.95	4.0			
MMPM	1.14	294	iPc	52	18.31	-0.8				iP*	53	04.05		COE	2.97	273	P	55	05.16	5.8			
TPNV	1.19	99	iPc	52	20.94	1.2	ORV	3.83	310	ePnc	52	57.72	-0.3		23 obs. associated								
			eS	52	37.93					iPg	53	07.53		---									
FRI	1.61	265	iP	52	25.84	-0.4				eS	53	54.06		& MAY 18, 1993 00h 00m 07.74s									
ISA	1.61	203	ePn	52	25.41	-0.9	PLM	3.85	169	ePnd	52	57.68	-0.9	37.171 N 117.851 W									
			eS	52	45.77					ePg	53	09.60		DEPTH = 8.8km									
KVN	1.92	351	iPnc	52	31.81	0.8				eS	53	58.79		CALIFORNIA-NEVADA BORDER REGION (40)									
			iPg	52	33.68		OBHM	3.86	311	P	52	59.12	0.5	<GM-P>. MD 3.6 (GM), 3.6 (PAS).									
GSC	1.99	158	iPnd	52	31.04	-0.8	NTYM	4.11	289	(Pn)	53	00.57	-1.4	ML 4.1 (BRK), 3.4 (GS).									
PKEM	2.21	241	eP	52	36.32	1.2				eS	54	05.69											
			eS	53	00.70		LCMM	4.22	316	P	53	15.21	11.4	CWCR	0.49	312	P	00	17.17	-0.5			
MSTM	2.27	290	P	52	36.12	0.2	MIN	4.41	318	eP	53	06.50	0.1	BCKR	0.67	322	P	00	20.46	-0.8			
PDRM	2.28	250	P	52	36.43	0.3	LMEM	4.53	319	ePg	53	20.56	12.4	CASR	0.69	306	P	00	20.98	-0.7			
PARM	2.30	248	P	52	37.50	1.2	MSU	4.59	71	ePn	53	09.17	0.1	CLKR	0.88	299	P	00	24.37	-0.6			
CMB	2.30	293	iPnc	52	36.20	-0.2				ePg	53	24.38		WLHM	1.08	200	P	00	26.56	-1.9			
			iPg	52	38.61					eS	54	25.59		RCWM	1.23	172	P	00	29.34	-1.4			
			eS	53	06.98		GLA	4.72	149	ePn	53	08.39	-2.4	WCHM	1.30	188	P	00	31.01	-1.1			
PCRM	2.43	245	P	52	39.22	1.0				ePg	53	26.57		WORM	1.50	192	P	00	34.59	-0.4			
PSRM	2.44	239	P	52	39.50	1.2				eS	54	27.60		ISA	1.59	199	eP	00	34.58	-1.6			
CTM	2.44	241	P	52	39.62	1.2	DUG	4.89	50	(Pn)	53	14.57	1.3				eS	00	55.56				
PMRM	2.45	237	P	52	39.81	1.3				eP*	53	22.50		WBSM	1.65	188	P	00	37.24	0.1			
MCUM	2.45	290	P	52	38.54	0.1				ePg	53	30.78		WJPM	1.83	196	P	00	40.59	0.9			
YEG	2.50	227	P	52	41.02	1.8				eS	54	32.30		MSTM	2.16	291	P	00	46.66	2.3			
BRMM	2.51	264	P	52	41.30	2.0	LBFM	5.30	324	ePnc	53	19.94	0.8	ARVC	2.19	202	P	00	47.34	2.5			
PHAM	2.53	240	(P)	52	39.97	0.3				iPg	53	37.63		CMB	2.19	294	ePnc	00	44.32	-0.6			
TMB	2.53	216	P	52	41.97	2.2	LGPM	5.48	315	ePn	53	20.83	-0.7	PARM	2.20	246	P	00	46.50	1.4			
PMCM	2.57	237	P	52	41.36	1.1	SRU	5.99	69	ePn	53	30.37	1.5	MRFM	2.37	298	P	00	50.47	2.9			
PRI	2.58	248	eP	52	39.70	-0.7				ePg	53	50.26		BRMM	2.40	263	P	00	50.11	2.2			
			iS	53	15.50					eS	55	10.63		BMSM	2.41	259	P	00	49.38	1.3			
ABL	2.60	209	ePn	52	40.55	-0.2	HVU	6.00	38	ePn	53	30.66	1.8	PHAM	2.45	238	ePn	00	47.00	-1.5			
			ePg	52	43.28					iPg	53	51.15		MARC	2.48	210	P	00	51.64	2.7			
			eS	53	16.73					eS	55	09.77		MNHM	2.54	293	P	00	53.22	3.3			
PTV	2.64	248	P	52	41.86	0.8	DAU	6.00	55	ePn	53	32.36	3.3	ABL	2.57	206	(Pn)	00	50.34	-0.1			
LLA	2.65	259	eP	52	41.44	0.2				ePg	53	52.35					eP*	00	52.86				
BCH	2.75	225	ePn	52	41.58	-1.2	EMUT	6.03	62	ePn	53	31.72	2.3				eS	01	26.84				

CMPM	2.76	275	P	00 56.38	3.3
HJSM	2.78	264	P	00 55.64	2.3
SAO	2.91	263	ePn	00 56.16	1.1
			eS	01 38.65	
ARN	2.94	275	ePn	00 57.56	2.0
			eS	01 35.37	
SSK	2.96	177	ePn	00 54.35	-1.6
			iPg	01 02.77	
			eS	01 40.14	
MHC	3.03	274	ePn	00 58.61	1.7
MHC	3.03	274	eP	01 03.81	6.9
			eS	01 43.53	
COE	3.05	273	(Pn)	00 58.79	1.7
			ePg	01 04.66	
			eS	01 45.99	
ARUT	3.56	79	(Pn)	01 03.37	-1.1
			iPg	01 13.80	
			eS	02 03.94	
ORV	3.73	311	ePg	01 14.64	7.9
			eS	02 05.98	
MSU	4.69	72	ePn	01 21.39	0.8
			ePg	01 34.34	
			eS	02 35.31	
DUG	4.96	51	(Pn)	01 23.25	-1.1
			ePg	01 41.77	
			eS	02 48.11	

34 obs. associated

& MAY 18, 1993 00h 09m 42.61s
37.132 N 117.752 W
DEPTH = 0.7km
CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. MD 3.2 (GM), 3.2 (PAS).
ML 3.8 (BRK), 3.2 (GS).

CWCR	0.57	310	P	09 54.06	0.0
BHPR	0.61	286	P	09 54.95	0.1
CASR	0.78	305	P	09 58.04	-0.1
MRCM	0.81	312	iPc	09 58.43	-0.3
			eS	10 09.80	
ORC	0.88	305	P	09 59.77	-0.4
BONR	0.93	332	eP	10 01.05	-0.1
CLKR	0.97	299	P	10 01.49	-0.6
TNP	1.04	24	eP	10 03.28	0.0
WLHM	1.08	205	P	10 03.76	-0.2
MEMM	1.09	300	iPc	10 03.58	-0.3
			eS	10 18.27	
MMPM	1.12	296	iPc	10 03.97	-0.8
			eS	10 18.35	
vPEM	1.18	183	P	10 05.65	0.0
RCWM	1.18	176	P	10 05.84	0.2
TPNV	1.22	98	eP	10 06.87	0.6
WCHM	1.27	192	P	10 08.05	0.8
WORM	1.49	196	P	10 10.71	0.1
WSHM	1.51	172	P	10 10.23	-0.7
FRI	1.57	265	iP	10 11.75	0.0
			eS	10 31.40	
ISA	1.58	202	ePn	10 11.80	-0.1
WBSM	1.62	191	P	10 13.40	0.7
WOFM	1.77	206	P	10 15.40	0.6
WJPM	1.82	199	P	10 16.90	1.5
KVN	1.94	352	ePn	10 18.68	1.5
GSC	1.98	157	ePn	10 17.35	-0.4
PKEM	2.18	241	ePn	10 20.98	0.5
CMB	2.28	294	ePc	10 24.07	2.0
			eS	10 52.99	
MCUM	2.43	291	P	10 27.06	2.9
YEG	2.46	227	P	10 28.07	3.4
MRFM	2.46	298	P	10 27.59	2.9
MARC	2.48	212	P	10 28.44	3.5
PHAM	2.49	240	(P)	10 23.78	-1.3
WKR	2.58	240	P	10 38.09	11.7
LLA	2.61	260	eP	10 29.18	2.5
BCH	2.71	225	ePn	10 27.95	-0.3
SSK	2.92	179	(P)	10 32.74	1.5
SAO	2.98	264	ePn	10 30.97	-1.0
MHC	3.11	275	ePc	10 35.74	1.8
			eS	11 21.51	
COE	3.13	273	ePn	10 34.86	0.7
PEC	3.27	171	P	10 46.50	10.4
NTYM	4.09	289	(P)	10 48.06	0.4
MSU	4.63	71	ePn	10 55.34	-0.2
			ePg	11 09.58	
DUG	4.93	50	ePg	11 16.10	16.3
HVU	6.03	38	ePg	11 36.50	21.2
SRU	6.03	69	ePg	11 36.18	20.8

44 obs. associated

& MAY 18, 1993 00h 13m 55.75s
37.118 N 117.808 W
DEPTH = 9.1km
3.0mb (1 obs.)
CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. MD 3.6 (GM), 3.2 (PAS).
ML 3.8 (BRK), 3.5 (GS).

BCKR	0.73	322	P	14 09.56	-0.8
MRCM	0.78	315	iPc	14 10.48	-0.8
ORC	0.85	308	P	14 11.69	-0.7
BONR	0.92	335	iPc	14 13.35	-0.3
CLKR	0.94	301	P	14 13.22	-0.7
MEMM	1.05	302	iPc	14 15.42	-0.3
TNP	1.07	26	eP	14 16.06	-0.1
MMPM	1.09	297	iPc	14 15.75	-0.8
RCWM	1.17	174	P	14 18.02	0.2
TPNV	1.26	97	eP	14 19.97	0.6
NMC	1.28	184	P	14 19.71	0.2
WASM	1.50	204	P	14 23.71	0.6
FRI	1.53	266	iP	14 23.28	0.1
			eS	14 43.12	
ISA	1.55	200	eP	14 23.52	0.0
			eS	14 44.38	
WBSM	1.60	190	P	14 24.64	0.2
WJPM	1.79	198	P	14 28.69	1.6
KVN	1.94	353	ePn	14 29.26	-0.2
GSC	1.99	156	eP	14 29.50	-0.4
			eS	15 01.85	
PHBM	2.02	245	P	14 32.47	2.1
PKEM	2.13	241	ePn	14 33.60	1.6
ARVC	2.15	203	P	14 35.86	3.6
MSTM	2.21	292	P	14 35.43	2.3
CMB	2.24	295	iPc	14 33.22	-0.4
			eS	15 03.96	
CTM	2.36	241	P	14 37.27	1.9
MRFM	2.43	298	P	14 39.24	3.0
PHAM	2.45	239	ePn	14 38.18	1.7
PRI	2.50	248	eP	14 37.06	-0.2
ABL	2.54	207	ePn	14 39.83	1.9
LLA	2.56	260	iP	14 38.92	0.8
BCH	2.67	224	ePn	14 39.90	0.2
LRC	2.74	252	P	14 42.93	2.2
SSK	2.90	178	eP	14 43.59	0.5
GHS	2.91	271	P	14 44.95	1.8
BVYM	2.91	264	P	14 44.88	1.8
SAO	2.93	264	eP	14 44.58	1.2
			eSg	15 29.53	
PRS	2.97	256	eP	14 44.00	0.1
ARN	2.98	276	ePn	14 44.62	0.5
CSR	3.03	268	P	14 52.82	8.2
MHC	3.07	275	ePnc	14 47.16	1.8
MHC	3.07	275	eP	14 52.81	7.4
			eS	15 31.51	
COE	3.09	274	ePn	14 45.70	0.1
CBO	3.10	271	P	14 47.45	1.7
PEC	3.26	170	eP	14 47.45	-0.7
MSJ	3.26	278	P	14 50.38	2.3
HMR	3.33	289	ePn	14 49.21	0.1
GCC	3.35	270	eP	14 49.80	0.5
ARUT	3.54	78	(Pn)	14 51.70	-0.5
BKS	3.60	283	ePnc	14 50.59	-2.3
BKS	3.60	283	ePc	14 54.34	1.5
ORV	3.79	311	ePn	14 54.92	-0.6
PLM	3.83	168	ePn	14 55.84	-0.6
NTYM	4.05	290	eP	15 00.75	1.6
MSU	4.67	71	ePn	15 08.18	-0.2
			ePg	15 23.24	
			eS	16 24.75	
GLA	4.74	148	ePn	15 06.86	-2.2
DUG	4.97	50	(Pn)	15 11.01	-1.4
			ePg	15 29.33	
LBFM	5.28	324	ePg	15 35.02	18.1
EMUT	6.11	62	ePg	15 51.14	22.5
PV09	7.00	76	ePg	16 05.44	24.1
PV10	7.06	77	(Pn)	15 43.15	1.1
PV08	7.39	76	ePg	16 11.96	25.2
YKA	25.48	3	eP	19 21.10	-4.3
	0.6s		0.20nm	3 0mb	

61 obs. associated

• MAY 18, 1993 00h 16m 54.35± 0.52s
5.409 S ± 9.9km 152.136 E ±13.1km
DEPTH = 33.0km (normal)
5.0mb (9 obs.)
NEW BRITAIN REGION, P.N.G. (192)

RAB	1.21	1	iPd	17 17.40	2.4
			iS	17 34.00	
CTA	15.67	201	eP	20 40.00	5.5X
QIS	19.36	218	iPc	21 26.70	6.4X
	0.3s		2.00nm		3.9mb X
DZM	21.59	141	iPc	21 43.20	-0.4
WB2	22.54	229	iPc	21 53.10	0.1
	0.5s		16.00nm		4.7mb
ASPA	25.26	222	iPc	22 21.30	2.0
	0.4s		16.30nm		5.0mb
MEEK	38.31	233	eP	24 15.00	1.1
GUN	71.87	302	P	28 16.00	-0.9
	0.7s		18.00nm		5.2mb
KKN	72.35	301	P	28 18.00	-1.6
	0.6s		10.00nm		5.0mb
DMN	72.44	301	P	28 19.20	-1.0
GKN	72.95	301	P	28 21.80	-1.3
KDC	77.04	27	eP	28 45.20	-0.3
SVW	77.63	23	ePc	28 49.50	0.6
	0.9s		21.20nm		5.2mb
TTA	78.57	22	ePc	28 54.30	0.2
	1.2s		22.80nm		5.1mb
PMR	80.51	24	ePc	29 03.60	-0.8
IMA	81.25	20	ePc	29 08.60	0.2
	0.9s		5.90nm		4.6mb
FBA	82.69	22	ePc	29 14.90	-0.9
	0.8s		26.70nm		5.4mb
INK	89.26	21	eP	29 49.00	1.0
MBC	94.86	14	eP	30 14.00	0.2
YKA	96.27	28	eP	30 19.80	-0.6
	0.8s		1.00nm		4.3mb

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

& MAY 18, 1993 00h 18m 12.24s
37.168 N 117.834 W
DEPTH = 5.5km
CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. MD 3.5 (GM), 3.7 (PAS).
ML 4.0 (BRK), 3.3 (GS).

CWCR	0.50	311	P	18 21.94	-0.3
BHPR	0.54	284	P	18 22.71	-0.3
CASR	0.70	306	P	18 25.84	-0.5
CLKR	0.89	298	P	18 29.20	-0.8
MCSM	0.98	300	P	18 30.90	-0.6
MMPM	1.05	295	iPc	18 31.70	-1.0
			eS	18 45.46	
WLHM	1.08	201	P	18 31.68	-1.6
RCWM	1.22	173	P	18 34.43	-1.1
WCHM	1.30	189	P	18 35.79	-1.1
WORM	1.50	193	P	18 38.00	-1.9
FRI	1.51	264	iP	18 39.47	-0.4
			eS	19 00.41	
ISA	1.59	199	ePn	18 38.15	-2.9
WBSM	1.65	189	P	18 41.95	-0.1
WOFM	1.78	204	P	18 44.68	0.8
CMB	2.20	294	ePn	18 49.37	-0.6
PARM	2.21	246	P	18 51.43	1.3
MRFM	2.39	298	P	18 55.36	2.7
BMSM	2.43	259	P	18 54.40	1.2
YEG	2.44	225	P	18 55.47	2.1
PRI	2.50	247	eP	18 54.82	0.6
LLA	2.55	258	eP	18 56.50	1.6
MNHM	2.56	293	P	18 55.25	0.3
BAVM	2.59	282	P	18 57.54	2.1
EKH	2.72	260	P	19 02.16	4.8
SAO	2.92	263	ePn	19 00.24	0.1
SSK	2.95	178	eP	18 59.12	-1.7
CSTL	2.96	280	P	19 07.42	6.8
PRS	2.96	255	eP	19 01.05	0.3
MHC	3.04	274	ePn	19 03.41	1.4
MHC	3.04	274	ePc	19 09.28	7.3
			eS	19 48.90	
BKS	3.57	283	ePn	19 10.74	1.4
BKS	3.57	283	ePc	19 15.80	6.4
ORV	3.74	311	eP	19 11.70	-0.1
NTYM	4.01	289	(Pn)	19 15.32	-0.3
MIN	4.33	318	eP	19 19.96	-0.4
GLA	4.79	148	ePn	19 22.29	-4.5
DUG	4.96	51	ePg	19 44.73	15.5
LBFM	5.23	324	ePn	19 33.02	-0.1
EMUT	6.11	62	ePg	20 05.03	19.5

39 obs. associated

& MAY 18, 1993 00h 24m 43.04s
37.177 N 117.818 W
DEPTH = 6.8km

18d 00h

CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. MD 3.1 (GM).

CWCR	0.50	309	P	24 52.79	-0.4
BHPR	0.55	283	P	24 53.77	-0.3
BCKR	0.68	320	P	24 56.10	-0.6
CASR	0.71	304	P	24 56.75	-0.5
MRCM	0.74	312	ePc	24 57.20	-0.6
ORC	0.81	305	P	24 58.41	-0.8
BONR	0.87	334	eP	24 59.39	-0.8
CLKR	0.90	298	P	25 00.20	-0.6
MCSM	0.99	299	P	25 02.02	-0.3
MEMM	1.02	299	eP	25 02.12	-0.4
TNP	1.02	28	eP	25 02.81	0.0
			eS	25 19.25	
WLHM	1.10	201	P	25 04.32	0.2
WORM	1.52	193	P	25 14.18	3.5
WBSM	1.66	189	P	25 19.01	6.1
KVN	1.88	353	ePn	25 16.82	0.7
			eS	25 43.93	
GSC	2.04	156	ePn	25 17.75	-0.6
CMB	2.21	294	ePn	25 19.09	-1.7
			ePg	25 22.89	
			eS	25 50.66	
WKR	2.56	239	P	25 25.67	0.0
ABL	2.58	207	ePn	25 26.21	0.0

19 obs. assocloted

? MAY 18, 1993 00h 51m 00.45± 2.27s
31.339 S ±17.9km 68.365 W ±18.2km
DEPTH = 61.6 ± 29.1 km
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.09	276	iPc	51 11.00	0.9
CFA	0.29	158	P	51 10.00	-0.8
			S	51 15.20	
RTCB	0.40	248	e(P)	51 11.50	-0.3
			(S)	51 16.50	
RTBS	0.98	251	ePd	51 26.70	8.3X
			S	51 44.10	
RTPR	1.90	58	e(P)c	51 30.70	-0.3
MRA	2.50	116	ePd	51 40.00	0.6
TCA	3.23	91	ePc	51 54.00	4.1X
			S	52 33.00	

S.D. = 1.4 on 5 of 7 obs.

MAY 18, 1993 00h 56m 08.97± 0.24s
37.041 N ± 2.4km 117.695 W ± 2.4km
DEPTH = 5.0km (geophysicist)
3.2mb (1 obs.)
CALIFORNIA-NEVADA BORDER REGION (40)
MD 3.8 (GM), 3.3 (PAS). ML 3.9 (BRK), 3.4 (GS).

CWCR	0.67	313	P	56 21.77	-0.5
BHPR	0.68	292	P	56 21.75	-0.9
BCKR	0.85	321	P	56 26.38	0.4
CASR	0.87	308	P	56 26.07	-0.2
MRCM	0.90	314	eP	56 26.09	-0.8
ORC	0.97	308	P	56 27.31	-0.7
BONR	1.03	332	eP	56 28.62	-0.5
TNP	1.11	20	iPd	56 30.44	0.1
MCSM	1.14	303	P	56 30.56	-0.5
TPNV	1.16	94	ePn	56 31.47	0.2
MEMM	1.17	303	ePc	56 30.62	-0.7
MMPM	1.20	299	eP	56 30.84	-1.3
			eS	56 50.43	
ISA	1.51	205	ePn	56 35.64	-1.2
FRI	1.61	269	iP	56 37.98	-0.2
			eS	56 58.57	
WJPM	1.75	202	P	56 40.95	0.7
GSC	1.88	157	eP	56 41.38	-0.7
KVN	2.03	351	ePn	56 44.82	0.4
PKEM	2.18	244	ePn	56 47.64	1.3
PARM	2.27	250	P	56 50.06	2.3X
CMB	2.36	296	eP	56 49.21	0.2
			eS	57 21.32	
MARC	2.43	214	P	56 50.95	0.9
YEG	2.43	229	P	56 52.54	2.4X
PHAM	2.49	242	ePn	56 51.31	0.5
ABL	2.51	210	eP	56 51.51	0.2
PMCM	2.53	239	P	56 53.47	2.1X
PRI	2.55	250	eP	56 52.78	1.0
			eS	57 29.86	
BCH	2.68	227	ePn	56 53.91	0.3
RYS	2.74	210	P	56 59.47	4.8X
SSK	2.82	180	eP	56 55.50	-0.3
SAO	3.02	266	ePn	56 59.00	0.7
SAO	3.02	266	ePc	57 06.69	8.4X
			eS	57 42.33	
PRS	3.04	258	ePd	56 59.14	0.5
ARN	3.08	277	ePn	56 59.45	0.2
SYP	3.12	217	P	57 04.73	4.8X
MHC	3.17	277	ePnc	57 02.95	2.4X
MHC	3.17	277	ePc	57 08.24	7.7X
			eS	57 49.31	
PEC	3.17	172	eP	56 59.83	-0.7
			eS	57 50.28	
COE	3.19	275	eP	57 05.19	4.5X
ARUT	3.47	76	ePn	57 04.71	-0.2
			ePg	57 16.18	
BKS	3.71	284	eP	57 08.38	0.2
PLM	3.74	169	ePn	57 08.55	-0.3
ORV	3.91	311	(Pn)	57 11.35	0.4
NTYM	4.16	290	(Pg)	57 18.75	4.2X
			eS	58 18.63	
MSU	4.61	70	ePn	57 21.60	0.4
			ePg	57 35.93	
GLA	4.62	149	ePn	57 19.69	-1.5
			ePg	57 34.49	
DUG	4.95	49	(Pn)	57 29.21	3.3X
			ePg	57 42.47	
LBFM	5.39	324	(Pn)	57 33.13	0.9
			ePg	57 51.63	
SRU	6.02	68	ePn	57 40.51	-0.6
			ePg	58 04.06	
DAU	6.06	54	(Pn)	57 42.95	1.3
HVU	6.07	37	ePg	58 03.01	21.3X
YKA	25.55	3	eP	01 40.80	0.8
	0.8s		0.40nm	3.2mb	

S.D. = 0.7 on 39 of 51 obs.

& MAY 18, 1993 01h 03m 06.43s
37.152 N 117.762 W
DEPTH = 2.8km
4.6mb (13 obs.)
CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. MD 4.8 (GM), 4.8 (PAS). ML 5.3 (BRK), 4.8 (GS). Felt (V) at Lone Pine, California. Felt (IV) at Amargoso Valley and Beatty, Nevada. Felt (III) at Big Pine and Bishop, California. Also felt (III) at Dyer and Goldfield, Nevada.

CWCR	0.55	308	P	03 15.18	-2.3
CASR	0.76	304	P	03 21.30	-0.3
MRCM	0.79	311	iPc	03 21.72	-0.5
ORC	0.86	304	P	03 23.31	-0.5
CLKR	0.95	298	P	03 24.75	-0.7
MEMM	1.07	299	iPc	03 26.88	-0.3
WLHM	1.09	204	P	03 27.17	-0.7
MMPM	1.11	295	iPc	03 27.30	-0.8
TPNV	1.23	99	ePc	03 30.63	0.6
NMC	1.31	185	P	03 31.95	0.5
WORM	1.50	195	P	03 34.93	0.5
FRI	1.56	265	iP	03 35.21	0.0
ISA	1.59	201	ePnc	03 35.46	-0.2
WBSM	1.64	191	P	03 36.25	-0.3
WOFM	1.79	206	P	03 38.86	0.3
KVN	1.91	352	eP	03 40.45	0.0
GSC	2.00	157	eP	03 41.36	-0.3
TEJ	2.06	202	P	03 45.08	2.7
PHBM	2.07	245	P	03 44.52	2.0
PWMM	2.09	251	P	03 44.79	2.0
PKEM	2.18	241	eP	03 44.63	0.5
MSTM	2.23	290	P	03 45.10	0.2
PARM	2.26	247	P	03 48.29	3.0
CMB	2.26	294	iPc	03 45.12	-0.3
			iS	04 16.15	
PCRM	2.40	245	P	03 47.18	-0.1
PSRM	2.41	238	P	03 48.18	0.8
PMRM	2.42	236	P	03 50.13	2.6
MRFM	2.45	297	P	03 47.95	-0.1
FTC	2.45	202	P	03 52.18	4.0
PRCM	2.46	250	P	03 48.14	-0.1
YEG	2.47	227	P	03 48.72	0.4
GHC	2.47	239	P	03 48.02	-0.3
PTRM	2.48	234	P	03 50.61	2.2
MARC	2.50	211	P	03 48.95	0.3
PHAM	2.50	239	ePn	03 48.41	-0.3
PSMM	2.52	245	P	03 49.43	0.3
PSTM	2.53	242	P	03 48.72	-0.4
PMCM	2.54	237	P	03 50.09	0.8
PRI	2.54	248	iP	03 49.35	-0.1
			eS	04 23.13	
ABL	2.58	208	ePn	03 49.56	-0.5
PTV	2.60	247	P	03 50.18	0.1
LLA	2.61	259	iP	03 49.55	-0.7
			eS	04 26.28	
MOP	2.61	250	P	03 51.77	1.4
BCH	2.72	224	eP	03 51.02	-0.9
PSAM	2.76	247	P	03 53.40	1.0
AODM	2.76	303	P	03 53.04	0.5
OSR	2.78	264	P	03 55.91	3.1
PMGM	2.81	233	P	03 55.04	1.8
ASMM	2.85	307	P	03 53.91	0.1
PANM	2.88	243	P	03 54.32	0.1
SSK	2.94	179	ePn	03 54.83	-0.3
ARJM	2.95	302	P	03 55.66	0.5
SAO	2.98	264	ePn	03 55.06	-0.4
PRS	3.01	255	iP	03 55.23	-0.7
ARN	3.02	275	eP	03 56.35	0.3
MHC	3.10	275	iPnc	03 57.40	0.1
MHC	3.10	275	iPc	04 04.30	7.0
			eS	04 39.55	
AFDM	3.10	306	P	03 57.47	0.2
COE	3.12	273	eP	03 57.25	-0.3
HERM	3.18	265	P	03 59.40	1.1
PEC	3.29	171	ePnc	03 59.77	-0.2
AVRM	3.34	305	P	04 00.70	0.1
HMR	3.36	289	eP	04 02.21	1.3
GCC	3.39	269	eP	04 00.19	-1.1
ARUT	3.50	78	ePn	04 02.34	-0.7
STAN	3.53	275	ePnc	04 02.86	-0.4
STAN	3.53	275	iPc	04 11.45	8.2
BKS	3.63	283	ePnc	04 04.11	-0.6
			eS	04 59.49	
ZSP	3.66	284	iP	04 04.78	-0.4
JSBM	3.73	280	P	04 08.11	2.0
JEGM	3.76	277	eP	04 05.82	-0.9
OBHM	3.83	312	P	04 08.03	0.3
PLM	3.86	169	ePn	04 07.92	-0.3
OGOM	3.92	311	P	04 08.96	0.1
NTYM	4.07	289	ePn	04 10.07	-0.9
LRDM	4.39	320	P	04 16.72	1.1
LSLM	4.41	319	P	04 16.60	0.7
LMEM	4.50	320	ePn	04 17.87	0.6
MSU	4.63	71	ePn	04 18.41	-0.7
GLA	4.75	149	ePn	04 17.79	-2.9
DUG	4.92	50	eP	04 23.41	0.2
WDC	5.06	314	ePc	04 24.22	-0.8
LBFM	5.27	324	ePn	04 28.67	0.4
LGPM	5.45	315	eP	04 29.00	-1.6
KMPM	5.94	305	eP	04 38.88	1.3
HVU	6.02	38	ePn	04 37.64	-1.1
SRU	6.03	69	eP	04 39.48	0.5
DAU	6.04	55	eP	04 40.45	1.3
EMUT	6.06	62	eP	04 40.67	1.2
FHC	6.06	309	eP	04 40.38	1.1
PV08	7.35	76	eP	04 57.31	-0.3
TUC	7.50	128	eP	04 59.23	-0.3
BW06	8.44	46	ePd	05 13.29	0.5
VGB	8.66	346	(P)	05 16.96	1.4
LRM	9.53	23	ePc	05 29.70	1.9
SHW	9.63	341	(P)	05 28.93	-0.2
GOL	10.05	72	ePc	05 35.71	0.6
LON	10.05	344	ePn	05 35.32	0.5
BMW	10.17	338	(P)	05 38.02	1.6
GLD	10.17	71	eP	05 36.72	0.0
			eS	08 19.52	
DPW	10.72	358	(P)	05 45.18	1.2
RMW	10.72	345	(P)	05 45.05	1.0
GMW	11.03	342	ePn	05 49.60	1.4
NEW	11.12	2	eP	05 50.36	1.0
			eS	09 04.21	
RSSD	12.53	52	eP	06 07.11	-1.6
LTX	14.13	119	eP	06 31.07	1.3
ACO	14.90	86	iPd	06 39.90	0.1
OCO	16.43	90	iPc	07 04.40	4.8
MIAR	19.77	90	ePd	07 39.53	-1.0
	2.2s		316.54nm	5.2mb	
ULM	20.44	43	eP	07 49.50	2.0
OLY	21.23	87	eP	07 54.39	-1.4
FVM	21.66	79	eP	07 59.38	-0.8
	1.3s		112.61nm	5.1mb	
ELC	22.69	81	eP	08 10.26	-0.1
YKA	25.44	3	eP	08 35.90	-0.9
	0.8s		4.30nm	4.2mb	
FCC	26.55	28	eP	08 52.50	5.5

GBTN	26.97	83	(P)	08	49.20	-1.9
TKL	27.31	83	eP	08	53.01	-1.3
GOGA	28.15	87	eP	09	00.98	-0.9
	1.0s	8.36nm			4.5mb	
NAV	29.32	78	eP	09	10.67	-1.7
KLU	30.05	333	eP	09	19.87	1.1
EEO	30.06	59	eP	09	20.50	1.6
CEH	30.96	80	eP	09	25.29	-1.7
	0.9s	35.19nm			5.3mb	
SLKM	31.11	329	eP	09	27.33	-0.8
PMR	31.31	331	(P)	09	30.66	0.9
	1.3s	18.62nm			4.8mb	
INK	32.42	349	eP	09	40.00	0.6
	1.0s	3.00nm			4.2mb	
GAC	32.52	61	eP	09	39.50	-1.0
FBA	32.97	337	eP	09	48.50	4.3
JAQ	33.27	46	eP	09	45.00	-2.0
SVW	33.69	327	eP	09	50.40	-0.2
	0.8s	7.70nm			4.7mb	
IMA	35.61	336	eP	10	07.86	0.7
	1.3s	6.44nm			4.3mb	
MBC	39.19	359	eP	10	37.00	0.1
	1.0s	4.00nm			4.0mb	
FRB	39.58	32	eP	10	40.00	-0.2
	1.0s	6.00nm			4.2mb	
LMN	39.96	60	eP	10	47.00	3.3
ARE	68.86	132	e(P)	14	15.00	0.0
ZOBO	70.76	129	iPc	14	25.10	-1.8
LPB	70.97	129	P	14	26.70	-1.3
CNCB	71.26	129	P	14	26.00	-3 9
CLL	81.91	29	eP	15	29.00	0.5
GRF	82.48	31	eP	15	32.20	0.7
PRU	83.56	29	eP	15	35.00	-2.0
KHC	83 87	30	eP	15	39.00	0.3
		e		15	43.00	
GEC2	84.15	30	P	15	40.00	-0.2
	1.1s	5.39nm			4.7mb	
		e		15	44.40	
OBN	85.52	14	iPc	15	46.00	-0.8
	1 6s	40.00nm			5.4mb	
ZST	86.00	28	eP	15	49.30	0.0
SPC	86.32	26	eP	15	51.60	0.5
SRO	86.77	28	eP	15	54.20	1.1
VAY	93.88	29	eP	16	26.50	0.0
CER	144.95	97	ePKP	22	46.00	-0.7
	1.0s	72.00nm				
SUR	145.83	95	e(PKP)	22	46.50	-2.0
BUL	146.20	69	iPKPd	22	49.00	-0.4
	1.0s	5.50nm				
KSR	148.01	80	e(PKP)	22	52.50	0.3
BLF	148.91	86	ePKP	22	39.00	-14.5
SLR	149.03	78	ePKP	22	40.00	-13.8
SEK	149.72	83	ePKP	22	47.00	-7.7
	154 obs. associated					

& MAY 18, 1993 01h 05m 49.71s
63.165 N 150.578 W
DEPTH = 126.3km
CENTRAL ALASKA (1)
<AEIC>.

TRF	0.32	24	eP	06	07.56	1.4
			eS	06	21.20	
HUR	0.47	113	eP	06	07.90	-0.5
			eS	06	22.69	
RND	0.82	72	P	06	09.10	-1.9
MCK	0.93	52	eP	06	11.58	-0.4
			eS	06	29.07	
SKT	1.27	201	eP	06	14.85	-0.5
			eS	06	34.02	
PWA	1.55	168	P	06	18.80	0.3
			S	06	40.80	
NEA	1.57	24	eP	06	17.52	-1.1
GHO	1.60	150	eP	06	18.82	-0.3
			eS	06	41.33	
SUA	1.71	183	eP	06	20.67	0.2
WRH	1.71	39	eP	06	19.62	-0.8
SML	1.72	142	eP	06	19.67	-0.8
PLRM	1.72	156	eP	06	19.60	-0.8
PMR	1.72	156	eP	06	20.86	0.4
			eS	06	41.82	
MLY	1.87	358	eP	06	21.76	-0.7
CCB	1.93	38	eP	06	22.12	-0.9
CGLM	1 98	200	eP	06	23.6B	-0.1
PMS	1.99	166	P	06	23.50	-0.3
SCM	2.02	130	eP	06	23.34	-0.9
HDA	2.03	51	eP	06	23.56	-0.8
CRP	2.04	202	eP	06	24.79	0.1
CPAM	2.05	202	eP	06	24.88	0.2
MDM	2.08	29	eP	06	23.81	-1.1
CKN	2.09	202	eP	06	25.62	0.5
BGL	2.09	205	eP	06	25.59	0.4
SPU	2.11	200	eP	06	24.83	-0.5
CKT	2.11	202	eP	06	24.81	-0.6
CKL	2.14	203	eP	06	25.59	-0.2
THY	2.19	81	eP	06	25.74	-0.7
GLM	2.30	36	eP	06	26.99	-0.8
PAX	2.33	93	eP	06	27.93	-0.3
			eS	06	56.90	
SDG	2.40	103	eP	06	28.49	-0.5
TTA	2.49	267	P	06	29.80	-0.4
TZL	2.64	113	eP	06	31.84	-0.2
SLKM	2.67	176	eP	06	31.59	-1.0
KLU	2.75	126	eP	06	31.94	-1.6
MPA	2.75	167	eP	06	32.17	-1.3
VLZ	2.85	134	eP	06	33.13	-1.7
RDW	2.89	202	eP	06	36.19	0.6
SEW	3.12	170	eP	06	37.82	-0.6
SVW	3.14	231	ePc	06	37.65	-1.1
HIN	3.39	143	eP	06	40.26	-1.7
GLB	3.60	116	eP	06	43.81	-1.1
CNPM	3.67	185	eP	06	44.86	-0.9
CROM	4.26	121	eP	06	53.60	-0.3
MCNL	4.39	206	eP	06	55.55	0.1
BALM	4.42	115	eP	06	54.46	-1.5
CDD	4.50	201	eP	06	56.68	-0.3
CTGM	4.88	113	eP	06	58.89	-3.3
	48 obs. associated					

& MAY 18, 1993 01h 10m 36.47s
37.234 N 117.816 W
DEPTH = 1.3km
CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. MD 3.6 (GM), 3.4 (PAS).
ML 3.7 (BRK), 3.2 (GS).

CWCR	0.47	304	P	10	45.88	0 0
BCKR	0.64	316	P	10	49.00	-0 3
MRCM	0.70	309	iPd	10	50.24	-0 2
BONR	0.82	332	iPd	10	52.65	-0.1
CLKR	0.88	294	P	10	53.36	-0 7
MCSM	0.96	296	P	10	55.43	-0.3
TNP	0.97	29	iPc	10	55.92	0.1
VPEM	1.28	180	P	11	00.73	-0 4
WCHM	1.36	189	P	11	01.75	-0.9
NMC	1.39	183	P	11	02.91	0.0
FRI	1.53	261	iP	11	04.55	-0.4
			eS	11	23.67	
WSHM	1.62	171	P	11	05.95	-0.3
ISA	1.65	199	ePn	11	05.94	-0.9
			eS	11	28.26	
WOFM	1.84	203	P	11	10.69	1.1
PHBM	2.07	242	P	11	14.46	1.7
CMB	2.19	292	iPc	11	16.15	1.6
			eS	11	43.51	
PARM	2.25	245	P	11	17.85	2.4
ARVC	2.26	202	P	11	18.27	2.8
YEG	2.49	225	P	11	21.55	2.6
PRI	2.54	245	iPd	11	21.19	1.6
			eS	11	56.14	
MARC	2.55	209	P	11	22.70	3.1
MNHM	2.55	292	P	11	22.72	3.1
LLA	2.58	257	iPd	11	22.03	1.9
BHRM	2.81	261	P	11	26.96	3.6
LTR	2.82	264	P	11	25.78	2.3
HJSM	2.82	263	P	11	28.57	5.1
SAO	2.94	262	eP	11	26.62	1.4
PRS	2.99	254	iP	11	26.46	0.5
MHC	3.05	273	eP	11	28.49	1.6
			eS	12	11.34	
CVAL	3.16	278	P	11	33.79	5.5
PEV	3.22	267	P	11	25.52	-3.6
DUG	4.90	51	ePg	12	08.83	15.6
	32 obs. associated					

% MAY 18, 1993 01h 14m 02.56± 0.64s
40.007 S ± 4.8km 173.059 E ± 6.1km
DEPTH = 33.0km (normol)
COOK STRAIT, NEW ZEALAND (163)
ML 4.0 (WEL).

ORZ	0.91	206	P	14	19.10	0.1
			S	14	30.10	
NRZ	0.95	46	eP	14	20.10	0.5
DIW	1.03	141	P	14	20.20	-0.6
BSZ	1.46	82	P	14	26.60	-0.2
TCW	1.52	143	P	14	27.90	0.2
KIW	1.65	122	P	14	29.70	0.0
MRW	1.75	135	eP	14	31.20	0.1
THZ	1.76	184	eP	14	31.20	0.0
MNG	1.95	109	P	14	34.30	0.3
DSZ	1.98	208	P	14	34.30	-0.2
MOZ	2.02	43	P	14	34.50	-0.5
			S	14	57.40	
CNZ	2.08	68	P	14	36.10	0.1
NGZ	2.13	68	P	14	36.60	-0.1
MTW	2.19	123	eP	14	37.10	-0.2
KHZ	2.44	172	eP	14	41.20	0.4
	S.D. = 0.3 on 15 of 15 obs.					

& MAY 18, 1993 01h 22m 01.40s
37.193 N 117.723 W
DEPTH = 0.1km
CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. MD 3.0 (GM), 3.1 (PAS).
ML 3.5 (BRK), 2.9 (GS).

CWCR	0.55	303	P	22	12.73	0.3
BHPR	0.62	280	P	22	13.96	0.2
CASR	0.76	300	P	22	16.88	0.3
MRCM	0.79	308	ePc	22	17.04	0.0
			eS	22	27.48	
ORC	0.86	301	P	22	19.05	0.4
TNP	0.97	24	iPd	22	21.99	1.0
			eS	22	35.57	
MCSM	1.05	296	P	22	22.12	-0.2
WLHM	1.14	205	P	22	23.81	-0.1
TPNV	1.20	101	ePn	22	26.64	1.8
			eS	22	43.95	
VPEM	1.24	184	P	22	26.17	0.6
WCHM	1.34	192	P	22	27.75	0.5
NMC	1.36	186	P	22	28.84	1.4
WSHM	1.57	173	P	22	31.69	1.1
FRI	1.60	263	iP	22	31.08	0.1
			eS	22	50.69	
ISA	1.64	202	ePn	22	31.75	0.1
WBSM	1.69	192	P	22	34.00	1.5
KVN	1.88	351	ePn	22	35.59	0.3
			eS	23	03.30	
WJPM	1.88	199	P	22	36.43	1.2
PHBM	2.12	244	P	22	40.75	2.3
PKEM	2.23	240	(Pn)	22	40.89	0.8
MSTM	2.25	289	P	22	43.02	2.6
CMB	2.27	292	ePn	22	40.76	-0.1
			ePg	22	42.91	
PARM	2.31	247	P	22	43.45	2.2
MCUM	2.43	290	P	22	43.22	0.2
BMSM	2.52	259	P	22	46.18	1.8
PHAM	2.55	239	eP	22	44.83	0.1
MARC	2.55	211	P	22	48.90	4.2
PRI	2.59	247	eP	22	47.98	2.6
			eS	23	21.25	
ABL	2.63	208	ePn	22	47.07	1.0
LLA	2.64	258	eP	22	48.43	2.3
BCH	2.77	224	ePn	22	48.12	0.1
SSK	2.98	180	eP	22	50.17	-0.8
SAO	3.01	263	ePn	22	51.36	0.1
CSTL	3.04	280	P	22	57.09	5.4
ARN	3.04	274	ePn	22	53.17	1.4
			eS	23	34.40	
PRS	3.05	255	eP	22	53.01	1.2
MHC	3.13	274	ePc	22	55.09	2.0
PEC	3.33	172	eP	22	56.18	0.4
ARUT	3.46	79	ePn	22	57.84	0.0
MSU	4.59	72	ePg	23	29.83	16.0
DUG	4.87	51	P	23	52.13	34.3
HVU	5.97	38	ePg	23	54.83	21.5
	42 obs. associated					

& MAY 18, 1993 01h 25m 34.23s
37.084 N 117.814 W
DEPTH = 4.8km
CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. MD 3.1 (GM), 3.2 (PAS).
ML 3.6 (BRK), 3.2 (GS).

CWCR	0.57	316	P	25	45.31	-0.3
BCKR	0.76	324	P	25	48.80	-0.7
CASR	0.77	310	P	25	49.09	-0.7
MRCM	0.81	317	iPc	25	49.77	-0.7
CLKR	0.95	302	P	25	52.32	-0.7

18d 01h .

WLHM	1.01	203	P	25	53.58	-0.5	MHC	3.03	275	ePn	27	57.23	2.3	ARMA	24.84	181	eP	44	22.70	2.0
MEMM	1 07	303	iPc	25	54.43	-0.4	MHC	3.03	275	eP	28	01.23	6.3		1.1s		26.00nm			4.7mb
MMPM	1.10	299	iPc	25	54.82	-0.8	PEC	3.29	170	(P)	27	57.23	-1.3	ASPA	25.23	222	iPc	44	24.90	0.5
			eS	26	08.89			36 obs. associated							0.5s		35.50nm			5.2mb
VPEM	1.13	180	P	25	55.63	-0.4	----------										eS	48	56.70	
RCWM	1.14	173	P	25	55.88	-0.2	MAY 18, 1993 01h 29m 15.05± 0.50s							STK	28 09	199	iPc	44	49.40	-1.1
NMC	1.24	183	P	25	58.20	0.4	37.129 N ± 3.6km 117.780 W ± 4.7km								1.0s		6.50nm			4.3mb X
TPNV	1.26	96	ePc	25	58.67	0.5	DEPTH = 5.0km (geophysicist)										e	47	01.40	
WORM	1.43	194	P	26	01.13	0.2	CALIFORNIA-NEVADA BORDER REGION (40)										e	48	56.00	
WASM	1.47	204	P	26	02.25	0.6	ML 3.3 (GS). Multiple event.							DAV	29.29	295	eP	45	03.50	2.1
ISA	1.51	201	ePn	26	01.64	-0.5								CAN	29.87	185	eP	45	05.90	-0.6
FRI	1.52	267	iP	26	02.03	-0.1	CWCR	0.56	311	P	29	26.44	0.2	CTB	30 58	294	ePc	45	14.00	1.1
			eS	26	20.92		BHPR	0.59	287	P	29	26.68	-0.2	PLP	31.67	301	ePc	45	20.30	-2.2
WBSM	1.57	190	P	26	03.72	0.7	MRCM	0.79	313	iPc	29	30.85	-0.2	WSI	31.84	260	ePd	45	24.00	0.0
WJPM	1.75	198	P	26	06.86	1.2				eS	29	41.29		OCP	36.70	303	eP	46	08.00	2.3
PARM	2.20	248	P	26	13.60	1.6	ORC	0.86	306	P	29	32.30	0.0	BAG	38.03	305	ePc	46	17.00	-0.1
CMB	2.25	296	ePc	26	14.54	1.7	CLKR	0.95	299	P	29	33.43	-0.4		1.3s		153.85nm			5.7mb
			eS	26	42.40		MCSM	1.04	301	P	29	35.18	-0.1	MEEK	38.29	233	eP	46	19.00	-0.1
MCUM	2.40	293	P	26	17.30	2.5	WLHM	1.06	204	P	29	34.56	-1.2				e	46	23.00	
BMSM	2.43	261	P	26	16.77	1.5	MMPM	1.10	296	iPc	29	35.80	-0.7	SJI	40.16	264	ePc	46	34.50	-0.2
PRI	2.48	249	eP	26	17.99	1.9				eS	29	50.09		MAT	43.76	344	eP	47	00.00	-3.9X
			eS	26	49.95		VPEM	1.18	181	P	29	36.70	-0.9	LEM	44.28	266	ePd	47	09.50	0.9
ABL	2.50	208	ePn	26	18.57	2.1	RCWM	1.18	175	P	29	37.11	-0.5	SSE	46.85	323	eP	47	28.00	-0.5
LLA	2.55	260	eP	26	19.44	2.4	TPNV	1.24	98	ePc	29	39.90	1.3		1.5s		27.00nm			5.0mb
MNHM	2.61	295	P	26	21.60	3.8	WCHM	1.27	191	P	29	38.47	-0.7	BJI	56.07	327	eP	48	36.50	-1.4
BCH	2.64	225	ePn	26	20.23	1.9	NMC	1.29	185	P	29	40.04	0.6		1.5s		40.00nm			5.2mb
BHRM	2.79	264	P	26	26.03	5.7	WORM	1.48	195	P	29	42.10	-0.3				e	49	35.50	
CMPM	2.80	277	P	26	24.01	3.3	WSHM	1.51	171	P	29	43.79	0.9	KMI	56.81	305	Pc	48	44.00	0.2
SSK	2.87	178	(Pn)	26	23.68	2.0	ISA	1.57	201	eP	29	43.39	-0.2		1.4s		130.00nm			5.8mb
BVYM	2.90	264	P	26	27.40	5.4	WBSM	1.61	190	P	29	44.11	-0.4				pP	49	04.50	81kmX
SAO	2.93	265	ePn	26	22.52	0.2	WOFM	1.76	206	P	29	47.22	0.7	CHTO	57.68	296	ePc	48	49.30	-0.4
PRS	2.95	256	eP	26	24.28	1.6	WJPM	1.81	198	P	29	48.20	1.0		1.1s		35.34nm			5.3mb
ARN	2.98	276	ePn	26	24.89	1.8	PHBM	2.05	245	P	29	52.10	1.5	ADK	63.00	21	eP	49	24.00	-1.5
MHC	3.07	276	ePc	26	25.96	1.6	CMB	2.26	294	(P)	29	52.36	-1.3		1.1s		109.10nm			5.9mb
CVAL	3.19	281	P	26	33.36	7.4	YEG	2.44	227	P	29	58.70	2.4X	CIT	65.97	335	eP	49	45.00	0.2
PEC	3.23	170	eP	26	26.56	-0.1	BRMM	2.45	264	P	29	57.31	0.9	YAK	69.46	349	eP	50	04.90	-1.5
ORV	3.81	312	ePn	26	34.46	-0.4	BMSM	2.46	260	P	29	56.00	-0.6		1.1s		35.00nm			5.3mb
			ePg	26	42.84		MARC	2.47	211	P	29	59.95	3.3X	ZAK	69 70	329	iPc	50	08.00	-0.1
MSU	4.69	71	ePg	27	01.53	13.9	PHAM	2.47	239	ePn	29	56.50	-0.2		1.2s		76.00nm			5.6mb
DUG	5.00	50	ePg	27	08.88	17.0	ABL	2.56	208	ePn	29	59.05	1.0	BOD	70 12	340	eP	50	08.40	-2.2
	40 obs. associated						MNHM	2.61	294	P	29	59.43	0.8		1.3s		12.00nm			4.8mb
----------							BCH	2.69	225	ePn	30	00.39	0.5	MOY	71 64	329	ePc	50	20.00	0.1
& MAY 18, 1993 01h 27m 04.67s							BHRM	2.82	263	P	30	07.15	5.5X		1.3s		72.00nm			5.5mb
37.138 N 117.853 W							CMPM	2.83	276	P	30	07.55	5.8X	GUN	71.89	302	P	50	21.60	-0.8
DEPTH = 0.1km							LTR	2.83	266	P	30	03.32	1.5	SDN	72 07	26	ePc	50	20.80	-1.6
CALIFORNIA-NEVADA BORDER REGION (40)							COSM	2.89	279	P	30	08.42	5.7X		1.0s		259.70nm			6.2mb
<GM-P>. MD 3.3 (GM), 3.3 (PAS).							SSK	2.91	179	ePn	30	02.66	-0.4	PKI	72.20	301	P	50	23.00	-1.2
ML 3.7 (BRK), 3.1 (GS).							GHS	2.93	270	P	30	05.30	2.0X	KKN	72.37	301	P	50	24.40	-0.6
							BVYM	2.94	264	P	30	08.56	5.3X	DMN	72.47	301	P	50	25.00	-0.7
CWCR	0.51	315	P	27	15.06	0.3	SAO	2.96	264	ePn	30	03.47	-0.1	GKN	72.98	301	P	50	27.70	-0.8
BHPR	0.53	288	P	27	14.86	-0.4	CSTL	3.01	281	P	30	09.06	4.9X	ILT	76.01	11	iPc	50	43.40	-1.6
CASR	0.71	308	P	27	18.84	0.0	COE	3.11	274	ePn	30	07.87	2.2X		1.2s		56.00nm			5.4mb
MRCM	0.74	316	iPc	27	19.46	-0.1	MHR	3.18	275	P	30	13.55	6.8X		Z 20s		0.60um			4.9Msz
CLKR	0.90	301	P	27	22.15	-0.4	PEC	3.27	171	eP	30	07.38	-0.6				i	50	52.50	
MCSM	0.98	302	P	27	23.84	-0.6	ORV	3.80	311	ePn	30	14.92	-0.6				i	50	57.40	
MEMM	1.01	302	iPc	27	24.34	-0.4	MSU	4.65	71	ePg	30	42.82	15.0X	GBA	76.51	285	P	50	47.00	-1.7
			eS	27	38.00		GLA	4.73	148	ePn	30	27.70	-1.1				S	55	26.00	
MMPM	1.05	297	ePc	27	24.47	-1.1	DUG	4.95	50	ePg	30	49.86	17.9X	KDC	77.07	27	ePc	50	50.60	-0.4
			eS	27	38.87		YKA	25.47	3	eP	35	08.70	23.4X	SVW	77.66	23	iPc	50	55.00	0.6
WLHM	1.05	201	P	27	24.40	-1.2		0.4s		0.10nm					0.9s		109.40nm			5.9mb
RCWM	1.20	172	P	27	27.59	-0.4	S.D. = 0.8 on 33 of 46 obs.							TIK	78.43	353	eP	50	58.50	0.2
WCHM	1.27	188	P	27	28.67	-0.6	----------								1.0s		12.00nm			4.9mb
TPNV	1.30	98	ePc	27	29.05	-0.7	MAY 18, 1993 01h 38m 59.66± 0.17s										e	51	15.00	
			eS	27	46.34		5.448 S ± 4.3km 152.141 E ± 4.2km							RSO	78.45	25	P	50	57.20	-1.7
WORM	1.47	192	P	27	31.98	-0.6	DEPTH = 33.0km (normal)							TTA	78.61	22	ePc	50	59.80	0.2
FRI	1.49	265	iP	27	32.36	-0.4	5.5mb (36 obs.) 4.9Msz (2 obs.)							CP2	79.10	24	P	51	01.40	-1.1
			eS	27	51.21		NEW BRITAIN REGION, P.N.G. (192)							CRP	79.13	24	P	51	00.60	-2.0
WSHM	1.53	169	P	27	34.13	0.7								NDI	79.49	300	iPc	51	04.50	-0.5
ISA	1 55	199	eP	27	33.21	-0.5	RAB	1.25	1	iPd-	39	23.00	2.1		1.2s		70.31nm			5.5mb
WBSM	1 61	188	P	27	34.72	0.0	SVO	8.45	116	eP	41	04.00	1.1	SLKM	79.53	25	P	51	03.90	-0.7
WJPM	1 80	197	P	27	38.00	0.7	HNR	8.69	118	eP	41	05.00	-1.2	ELT	80.26	326	iPc	51	08.00	-0.5
PHBM	2 00	244	P	27	41.62	1.6	CTAO	15.64	201	P	42	38.00	-1.4		1.0s		63.00nm			5.6mb
ARVC	2.16	202	P	27	44.64	2.3		1.0s		93.93nm			4.9mb	PMR	80.54	24	ePc	51	09.40	-0.5
CMB	2.20	295	ePnc	27	42.19	-0.9	QIS	19.34	218	eP	43	30.70	5.4X		1.2s		175.50nm			5.9mb
MCUM	2.35	292	P	27	47 82	2.6		0.9s		32.00nm			4.6mb	IMA	81.28	20	iPc	51	14.10	0.2
YEG	2.40	226	P	27	49.02	3.0				ePP	45	39.00			1.0s		80.40nm			5.7mb
BMSM	2.41	259	P	27	47.50	1.5	BKM	19.89	129	iPd	43	31.50	0.2	KLU	81.84	25	P	51	17.00	0.2
PRI	2.47	247	eP	27	48.71	1.7	GUA	20.18	339	eP	43	35.20	0.8	TLG	82.72	315	iPc	51	22.80	1.1
			eS	28	21.36			1.0s		320.00nm			5.6mb		1.2s		52.00nm			5.5mb
WKR	2.52	239	P	27	56.90	9.3				e	43	49.00		FBA	82.73	22	ePc	51	20.40	-0.8
LLA	2.53	259	eP	27	51.18	3.4	GUMO	20.24	339	eP	43	35.10	0.0	BALM	83.20	26	P	51	23.90	0.0
BCH	2.66	223	eP	27	47.56	-2.1		1.1s		393.90nm			5.7mb	SPA	84.58	180	iPd	51	31.00	0.1
SAO	2.90	264	(P)	27	52.52	-0.5	PJG	20.24	339	eP	43	35.80	0.7		0.6s		26.42nm			5.6mb
SSK	2.92	177	(P)	27	52.71	-0.8	DZM	21.56	141	iPc	43	46.90	-1.6	FRU	84.59	314	eP	51	32.40	1.2
PRS	2.94	255	eP	27	54.52	1.0	MTN	21.99	249	eP	43	54.50	1.6		2.2s		120.00nm			5.7mb
FRP	2.94	264	P	28	01.36	7.8	WB2	22.52	229	iPd	43	58.60	0.5				e	51	41.60	
CSTL	2.95	281	P	27	59.56	5.9				eS	47	51.90					e	56	38.00	

MAW	84.72	203	P	51	33.40	2.1		1.4s	31	80nm								eS	56	43.90			
SIT	85.17	32	ePc	51	34.80	1.2	HAU	128.52	331	ePKP	58	05.00	0.0	ADE	31.06	175	eP	51	37.00	3.8X
NRI	86.21	341	eP	51	37.00	-1.7	LMN	128.58	33	ePKP	58	09.00	3.8X	BWA	32.68	160	eP	51	47.90	0.5
	1.2s	25.00nm			5.3mb		SOI	128.60	316	PKP	58	05.70	0.3				ipP	51	54.00	21kmX
INK	89.29	21	ePc	51	54.40	0.9	LPL	130.04	329	ePKP	58	09.60	1.3	CAN	33.70	160	eP	51	51.70	-4.5X
	1.0s	31.00nm			5.6mb		SSF	130.54	332	ePKP	58	09.30	0 4				i	03	30.90	
RNO	89.51	46	P	51	56.29	1.1	PGF	130.71	324	ePKP	58	10.60	1.1	CNB	33.82	159	eP	51	56.00	-1.3
LGPM	89.78	49	P	51	57.00	0.4		0.7s	3.65nm					DZM	35.08	124	iPd	52	08.90	0.6
ONR	89.90	43	P	51	57.72	0.9	SBF	130.76	327	ePKP	58	11.00	1.5	MAT	40 32	3	(P)	52	39.00	-12.9X
STW	90.15	42	P	51	58.77	0.9	FLN	130.97	336	ePKP	58	05.00	-4.6X	CHTO	42 42	303	eP	53	09.20	-0.2
BMW	90.22	43	P	51	58.99	0.6	LMR	131.61	327	ePKP	58	13.00	2.0	KMI	42.89	314	Pd	53	13.50	0.1
LBFM	90.54	49	P	52	00.90	0.7		1.1s	11.00nm						1.5s	70.00nm				5.2mb
SSOR	90.54	45	P	52	00.18	0.2	LRG	131.61	327	ePKP	58	13.00	2.0				pP	53	26.60	49km
GMW	90.66	42	P	52	00.90	0.6	BCAO	133.77	271	iPKPd	58	15.60	-0.4	BJI	47 17	340	eP	53	46.50	-0.6
MCW	90.77	41	P	52	01.46	0.6		0.9s	14.00nm						1 5s	144.00nm				5.7mb
SHW	90.86	44	P	52	02.10	0.7				ic	58	21.40			Z 20s	0.90um				4.7Msz
LON	91.22	43	P	52	02.40	-0.6	CNCB	134.59	120	PKP	58	15.90	-2.2		N 16s	0.81um				
BCH	91.29	55	P	52	04.10	0.5	LPB	134.61	120	ePKP	58	18.00	0.0				eS	00	37.00	
ASR	91.30	44	P	52	03.66	0.2	ZOBO	134.70	119	PKP	58	06.00	-12.4X	GUN	57.22	307	P	55	02.20	-0.7
RMW	91.31	43	P	52	03.50	0.1				i	01	49.00			0.8s	48.00nm				5.6mb
JCW	91.31	42	P	52	03.80	0.5	CCH	135.91	122	ePKP	58	21.00	0.7	PKI	57.45	306	P	55	08.90	4.4X
CROR	91.60	45	P	52	05.25	0.5	SDV	137.44	83	ePKP	58	23.70	0.5	KKN	57.65	306	P	55	05.00	-0.8
E8G	92.09	43	P	52	07.61	0.7	SIV	140.83	123	PKP	58	20.00	-9.0X		1.0s	46.00nm				5.5mb
VIP	92.21	50	P	52	05.98	-2.0	PPD	144.32	141	ePKP	58	32.60	-2.3	DMN	57.71	306	P	55	06.00	-0.3
JBO	92.45	45	P	52	09.07	0.4	RSA	144.33	328	iPKPd	58	32.50	-2.0	GKN	58.25	306	P	55	09.40	-0.5
WTV	92.58	43	P	52	09.01	-0.2	IFR	144.98	326	iPKPd	58	36.20	0.2		0.9s	46.00nm				5.6mb
WAH2	92.76	43	P	52	10.57	0.6	VAO	146.11	147	ePKP	58	43.50	5.5X	ZAK	60.73	337	iPd	55	26.00	-0.3
SAW	92.95	43	P	52	10.95	0.1	AVE	146.39	328	iPKP	58	40.00	1.9		1.8s	45.00nm				5.3mb
KVN	93.21	51	P	52	13.30	0.8				i	58	50.00		MOY	62.65	337	ePd	55	40.00	0.8
LNOR	93.57	44	P	52	13.81	0.0	TRN	146.40	79	ePKP	58	38.71	0.1		1.2s	48.00nm				5.5mb
PEC	93.58	56	P	52	15.10	1.0	BAO	151.08	137	ePKP	58	51.90	5.9X	BOD	63.89	348	iPd	55	45.90	-1.4
	1.0s	24.29nm			5.6mb					i	59	18.00			1.0s	16.00nm				5.0mb
DPW	93.77	42	P	52	14.89	0.2				i	59	30.00		MGD	64.95	8	eP	55	50.00	-4.1X
PLM	93.79	57	P	52	16.70	1.4				e	01	04.00		YAK	65.88	357	eP	56	00.00	0.0
NEW	94 52	42	P	52	18.00	-0.1	KIC	156.99	273	PKP	59	00.90	6.8X		0.8s	37.00nm				5.5mb
	1.0s	39.29nm			5.8mb			0.9s	42.50nm					ELT	70.24	331	eP	56	26.00	-1.4
MBC	94 89	14	eP	52	19.00	-0.2				PKPab	59	25.00			1.7s	40.00nm				5.1mb
	1.0s	17 00nm			5.4mb		TIC	157.26	274	PKP	59	01.40	7.0X	QUE	73.55	303	eP	56	49.00	1.1
MAIO	95.32	306	iP	52	22.00	-0.1				PKPab	59	26.00		TIK	75.52	358	eP	56	57.00	-1.1
SVE	95.34	326	ePd	52	21 80	0.2	LIC	157.27	273	PKP	59	01.40	7.0X		1.2s	20.00nm				5.0mb
YKA	96.30	28	eP	52	24.60	-1.3				PKPab	59	26.00					e	57	10.00	45km
	1 6s	12 40nm			5.1mb		S.D. = 1.0 on 140 of 152 obs.							MAW	79.80	202	eP	57	25.00	3.1X
ARU	96.46	326	eP	52	26.00	-0.7	----------								1 0s	20.83nm				5.1mb
ARUT	96.79	53	P	52	29.60	0.7	MAY 18, 1993 01h 45m 16.78± 0.30s							MAIO	81.02	308	iPd	57	30.30	1.2
HVU	97 39	49	P	52	31.80	0.3	3.902 S ± 4.7km 135.421 E ± 5.3km							ASH	82.24	309	eP	57	36.50	1.2
LRM	97.64	45	eP	52	32 50	-0.2	DEPTH = 42.1km (5 depth phases)							TTA	83.88	25	eP	57	43.72	0.4
DAU	98.53	50	P	52	36.80	0.0	5.2mb (25 obs.) 4.9Msz (2 obs.)								1 1s	5.65nm				4.6mb
TUC	98.86	58	P	52	40.10	1.9	IRIAN JAYA REGION, INDONESIA (196)							SVE	84.98	328	ePc	57	50.50	1.7
	1.0s	3.01nm			4.8mb										2.0s	60.00nm				5.4mb
BW06	99.77	48	P	52	41.50	-0.8	SWI	5.14	306	iPc	46	32.00	-1.3		Z 20s	0.70um				5.0Msz
	1.0s	6.36nm			5.1mb					iS	47	31.00			N 18s	0.50um				
PV10	100.27	52	Pdiff	52	45.10	0.3	SLKI	5.77	225	iPd	46	42.50	0.4		E 18s	0.50um				
RSSD	103.69	46	Pdiff	52	59.30	-0.5	MNDI	8.50	106	eP	47	21.00	0.4				e	58	01.60	36km
	0.6s	4.55nm			5.4mb		MTN	9.85	205	eP	47	37.00	-1.9	IMA	85.90	23	ePc	57	53.80	0.3
SLL	116.94	339	ePKP	57	40.40	-2.0				eS	49	23.00			1.1s	12.19nm				5.0mb
	0.4s	0.80nm					MNI	11.83	296	eP	48	05.20	-0.7				pP	58	06.30	41km
NB2	117.29	340	PKP	57	41.80	-1.3	KUG	13.26	241	eP	48	23.80	-1.1	ARU	85.97	327	eP	57	52.00	-1.7
	0.8s	2.30nm								eS	50	52.00		SPA	86.12	180	iPd	57	56.10	1.5
BUL	118.97	244	iPKPc	57	47.10	-0.6	DAV	14.69	318	eP	48	44.50	0.9		0.9s	2.27nm				4.4mb
	1.0s	14 00nm					CTB	15.72	315	ePc	49	00.00	3.0X	PMR	86.53	28	eP	57	55.79	-0.6
MYNC	120.49	52	PKP	57	49.40	-0.6	WB2	15.98	184	eP	48	56.10	-4.2X		1.0s	12.00nm				5.1mb
LSZ	120.79	249	iPKPc	57	51.80	0.6				eS	51	33.80		FBA	87.93	25	eP	58	02.40	-0.7
GOGA	121.47	54	PKP	57	52.00	0.2	WSI	16.08	248	ePc	49	02.80	1.3		1.0s	3.50nm				4.6mb
SRO	122.30	325	ePKP	57	53.90	1.0	QIS	17.05	167	eP	49	18.30	4.5X	GRS	91.75	309	eP	58	22.00	0.3
			e	01	29.30			0.7s	48.00nm			4.7mb			1.1s	20.00nm				5.5mb
GAC	122.52	38	ePKP	57	54.00	0.6				i	49	25.00		INK	93.99	22	eP	58	26.00	-5.2X
ZST	122.78	326	e(PKP)	57	57.90	4.0X				iS	52	17.60		KIV	94.65	314	(P)	58	40.70	5.8X
BRG	122.90	330	ePKP	57	53.20	-0.8	PLP	18.22	325	ePc	49	24.00	-4.4X		1.9s	16.00nm				5.1mb
CLL	123.09	331	ePKP	57	54.00	-0.4	CTA	19.24	148	iPc	49	41.00	0.3	MBC	97.37	13	eP	58	46.00	-0.5
SKO	123.16	318	iPKP	57	54.00	-0.8		1.0s	52.50nm			4.7mb			1.0s	1.00nm				4.3mb
			e	01	59.00					ipP	49	51 00	40km	ARE	146.58	128	ePKP	05	01.00	5.8X
KHC	124.15	328	ePKP	57	56.50	-0.1				iScS	02	15.00		YJA	146.98	143	ePKPc	05	01.00	5.1X
	1.2s	7.50nm					TSM	19.33	295	eP	49	43.00	1.3	CNCB	149.04	132	PKP	05	03.10	3.7X
			e	58	00.00		ASPA	19.70	184	iPd	49	45.50	-0.3	LPB	149.13	132	PKP	05	09.30	9.9X
			e	58	06.00			0.8s	424.20nm			5 8mb		ZOBO	149.28	131	PKP	05	05.60	5.8X
GEC2	124.26	328	PKP	57	56.70	-0.2				eS	53	13.60			1.0s	30.00nm				
	0.6s	2.43nm					KHKI	20.19	256	ePc	49	50.30	-0.5	CCH	150.00	135	PKP	05	08.80	8.2X
			e	58	01.00					e	52	12.00		SIV	154.37	141	PKP	05	19.30	12.8X
			e	58	06.10		KKM	21.57	297	ePd	50	04.00	-1.1		S.D. = 1.0 on 47 of 67 obs.					
			e	58	11.50		PGP	22.48	321	iPd	50	30.00	16.0X	----------						
			e	01	24.60		OCP	23.27	323	eP	50	24.00	2.4	& MAY 18, 1993 01h 51m 18.14s						
			e	01	30.00		SJI	23.84	260	ePc	50	28.00	0.8	37.151 N 117.787 W						
GRF	125.00	330	ePKP	57	58.00	-0.2	BCP	24.94	324	eP	50	38.80	0.8	DEPTH = 0.0km						
	Z 22s	0.30um			4.9Msz		BAG	24.95	324	eP	50	37.50	-0.6	CALIFORNIA-NEVADA BORDER REGION (40)						
BNH	125.65	37	PKP	57	59.80	0.1	LEM	27 83	263	ePc	51	06.00	1.3	<GM-P>. MD 3.0 (GM), 3.0 (PAS).						
ARV	127.81	323	PKP	58	03.50	-0.3	STK	28.43	169	eP	51	09.90	0.2							
BSF	128.43	331	ePKP	58	04.80	-0.2		0.6s	4.80nm			4.3mb		BCKR	0.72	320	P	51	32.27	-0.2

18d 01h

CASR	0.74	305	P	51	33.04	0.1
ORC	0.84	305	P	51	34.66	-0.3
TNP	1.03	26	eP	51	38.26	-0.5
			eS	51	54.80	
TPNV	1.25	99	eP	51	41.51	-0.8
			eS	51	58.30	
ISA	1.58	201	eP	51	46.53	-1.1
CMB	2.24	294	ePn	51	56.15	-1.0
			ePg	51	59.10	
			eS	52	27.67	

7 obs. associated

& MAY 18, 1993 01h 57m 53.67s
37.228 N 117.838 W
DEPTH = 0.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. MD 3.1 (GM), 3.1 (PAS).

CWCR	0.46	306	P	58	02.99	0.2
BHPR	0.52	278	P	58	04.38	0.3
BCKR	0.63	318	P	58	06.11	-0.2
CASR	0.67	302	P	58	07.09	0.1
MRCM	0.69	310	eP	58	07.46	0.0
			eS	58	16.73	
ORC	0.77	302	P	58	08.93	-0.1
BONR	0.81	333	eP	58	09.74	-0.2
CLKR	0.86	295	P	58	10.64	-0.3
MCSM	0.95	297	P	58	12.36	-0.2
MMPM	1.02	292	eP	58	13.11	-1.1
			eS	58	26.96	
WLHM	1.14	200	P	58	15.00	-1.1
VPEM	1.28	179	P	58	18.55	0.2
RCWM	1.28	173	P	58	17.00	-1.5
TPNV	1.30	102	eP	58	17.48	-1.3
			eS	58	36 64	
WSHM	1.62	170	P	58	20.97	-2.6
ISA	1.64	198	ePn	58	23 25	-0.7
			eS	58	44 59	
WBSM	1.71	188	P	58	25.32	0.3
WJPM	1.89	196	P	58	28.48	0.9
PHBM	2.05	242	P	58	31.37	1.5
GSC	2.10	156	ePn	58	31.75	1.2
CMB	2.18	292	ePn	58	31.14	-0.6
BRMM	2.42	262	P	58	38.11	2.9
ABL	2.62	206	ePn	58	38.54	0.3
BCH	2.73	222	ePn	58	40.54	0.8
ARN	2.95	273	ePn	58	42.19	-0.5

25 obs. associated

% MAY 18, 1993 02h 19m 47.55± 0.56s
39.604 S ± 6.0km 174.068 E ± 6.5km
DEPTH = 140.0km (geophysicist)
NORTH ISLAND, NEW ZEALAND (159)

BSZ	0.69	107	P	20	10.10	0.9
DIW	1.20	185	P	20	14.40	0.8
CNZ	1.21	71	P	20	13.80	0.0
MOZ	1.24	28	P	20	13.60	-0.3
			S	20	33.60	
NGZ	1.26	71	P	20	14.20	-0.1
KIW	1.41	153	Pd	20	16.00	0.2
MNG	1.48	134	P	20	16.70	0.2
			S	20	36.70	
TCW	1.62	174	P	20	18.50	0.5
CAW	1.69	153	Pd	20	19.00	0.2
MRW	1.70	164	Pd	20	19.20	0.3
			S	20	40.80	
ORZ	1.70	223	P	20	19.40	0.5
			S	20	42.90	
WEL	1.76	163	P	20	19.70	0.1
WAHZ	1.77	94	P	20	19.30	-0.5
MOW	2.03	154	Pd	20	22.40	-0.4
BLW	2.06	149	P	20	22.80	-0.5
THZ	2.33	202	eP	20	26.40	-0.2
			S	20	56.00	
DSZ	2.75	218	eP	20	31.80	-0.1
KHZ	2.84	188	P	20	32.20	-0.8
LTZ	3.45	203	P	20	40.30	-0.8
			S	21	18.60	

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

& MAY 18, 1993 02h 24m 19.32s
37.115 N 117.850 W
DEPTH = 9.5km
CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. MD 3.0 (GM). ML 2.7 (GS).

CWCR	0.53	316	P	24	29.43	-0.6
BHPR	0.54	290	P	24	29.72	-0.6
BCKR	0.71	325	P	24	32.86	-0.7
CASR	0.72	310	P	24	33.18	-0.6
MRCM	0.76	317	iPc	24	33.85	-0.6
			eS	24	44.60	
ORC	0.83	309	P	24	35.00	-0.5
CLKR	0.91	302	P	24	36.45	-0.5
BONR	0.91	337	eP	24	36.68	-0.3
MCSM	1.00	303	P	24	38.09	-0.4
MEMM	1.03	303	iPc	24	38.59	-0.2
WLHM	1.03	201	P	24	37.88	-1.2
TNP	1.09	27	ePn	24	39.61	-0.4
			eS	24	54.53	
VPEM	1.16	179	P	24	41.11	-0.1
RCWM	1.17	172	P	24	40.77	-0.6
TPNV	1.29	97	ePc	24	43.12	-0.3
WSHM	1.51	169	P	24	47.75	1.2
ISA	1.53	199	ePn	24	46.72	-0.2
WBSM	1.59	189	P	24	48.06	0.2
GSC	2.00	155	ePn	24	54.90	1.3
CMB	2.21	295	P	24	56.77	0.0
BCH	2.64	224	ePn	25	05.09	2.2
SAO	2.90	264	eP	25	08.79	2.3
			eS	25	50.21	
ARN	2.95	276	eP	25	07.92	0.8
COE	3.06	274	(Pn)	25	10.68	2.1
ARUT	3.57	78	ePn	25	16.62	0.5
			eS	26	12.43	
MSU	4.71	71	(Pn)	25	33.34	1.0

26 obs. associated

MAY 18, 1993 02h 27m 14.54± 0.33s
37.211 N ± 2.8km 117.749 W ± 3.4km
DEPTH = 5.0km (geophysicist)
CALIFORNIA-NEVADA BORDER REGION (40)
ML 2.5 (GS).

CWCR	0.53	303	P	27	24.98	-0 2
MRCM	0.76	308	eP	27	29.41	-0.5
			eS	27	39.71	
BONR	0 86	330	eP	27	32.31	0.5
TNP	0.97	26	ePd	27	33.98	0 5
MEMM	1.05	296	ePc	27	34.55	-0.2
WLHM	1.15	203	P	27	36.06	-0.7
TPNV	1.23	102	eP	27	38.30	0.3
VPEM	1 26	183	P	27	38.40	-0.1
RCWM	1.26	176	P	27	38.52	0.0
NMC	1.37	185	P	27	40.82	0.4
WORM	1.56	195	P	27	43.30	0.2
WSHM	1.59	172	P	27	45.41	2.0X
ISA	1 65	201	P	27	44.03	-0.3
WBSM	1.70	191	P	27	45.88	0.7
WOFM	1.84	205	P	27	50.31	3.1X
GSC	2.05	158	ePn	27	50.15	-0.1
CMB	2.25	292	(Pn)	27	53.07	0.0
BCH	2.77	224	(Pn)	28	00.49	0.0
ARN	3.02	274	eP	28	04.43	0.5
			eS	28	50.76	
ARUT	3.47	79	ePn	28	09.52	-1.0
			eS	29	06.48	
MSU	4.60	72	ePg	28	41.17	14.6X

S.D. = 0.5 on 18 of 21 obs.

MAY 18, 1993 02h 32m 29.14± 0.34s
37.262 N ± 3.1km 117.761 W ± 3.4km
DEPTH = 5.0km (geophysicist)
CALIFORNIA-NEVADA BORDER REGION (40)
ML 2.9 (GS).

CWCR	0.49	298	P	32	37.47	-1.6
BHPR	0.58	274	P	32	38.24	-2.6
CASR	0.70	297	P	32	44.02	0.8
MRCM	0.72	305	eP	32	44.36	0.8
			eS	32	54.80	
ORC	0.80	298	P	32	45.99	0.6
BONR	0.81	328	eP	32	44.54	-1.1
CLKR	0.91	292	P	32	47.62	0.4
TNP	0.93	28	ePn	32	46.38	-1.0
			ePg	32	48.95	
MEMM	1.02	294	ePc	32	49.71	0.8
			eS	33	03.64	
MMPM	1.07	289	ePc	32	50.13	0.2
			eS	33	03.88	
TPNV	1.25	104	eP	32	53.49	0.6
			eS	33	11.62	
VPEM	1.31	182	P	32	53.59	-0.4
RCWM	1.31	176	P	32	53.36	-0.6
WCHM	1.40	191	P	32	54.82	-0.8
WORM	1.61	194	P	32	58.54	0.2
WSHM	1.64	172	P	33	00.25	1.5
WASM	1.65	203	P	33	00.34	1.3
ISA	1.70	200	ePn	32	58.82	-0.8
			eS	33	20.02	
WBSM	1.75	190	P	33	01.03	0.5
KVN	1.81	352	ePn	33	02.60	1.3
GSC	2.10	158	ePn	33	04.62	-0.9
PHBM	2.12	242	P	33	07.90	2.2X
CMB	2.22	291	ePn	33	07.82	0.6
			iPg	33	10.38	
			eS	33	38.63	
ARVC	2.30	202	P	33	12.53	4.2X
PARM	2.31	245	P	33	10.59	2.2X
MCUM	2.38	288	P	33	10.39	1.0
BRMM	2.49	261	P	33	14.21	3.2X
PHAM	2.56	237	ePn	33	12.51	0.6
MNHM	2.58	291	P	33	16.87	4.7X
ABL	2.68	207	ePn	33	15.28	1.3
			eS	33	51.13	
BCH	2.80	223	ePn	33	16.07	0.6
LTR	2.86	264	P	33	18.95	2.7X
BVYM	2.97	261	P	33	23.25	5.4X
SAO	2.99	262	ePn	33	16.71	-1.4
SSK	3.05	179	eP	33	18.06	-1.0
PEC	3.40	172	eP	33	23.54	-0.4
ARUT	3.47	80	ePn	33	25.25	0.1
			ePg	33	36.58	
			eS	34	21.71	
ORV	3.72	309	ePg	33	37.65	9.1X
PLM	3.97	169	ePn	33	31.86	-0.3
MSU	4.59	73	ePn	33	41.77	0.7
			ePg	33	56.46	
DUG	4.85	51	ePn	33	43.85	-0.9
HVU	5.93	39	ePg	34	21.92	22.0X
PV10	6.99	78	ePg	34	42.51	27.5X
PV08	7.32	77	ePg	34	46.13	26.4X

S.D. = 1.0 on 33 of 44 obs.

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* MAY 18, 1993 02h 38m 03.00± 0.63s
16.038 S ±25.9km 174.652 W ±18.9km
DEPTH = 16.7km (3 depth phases)
4.7mb (11 obs.)
TONGA ISLANDS (173)

DZM	18.84	249	iPc	42	25.20	0.6
TOO	41.13	231	iPd	45	47.10	-0.9
	0.8s		35.00nm			5.1mb
STK	42.68	240	iPd	46	00.10	-0.6
	1.0s		6.00nm			4.3mb
WRA	48.53	257	P	46	51.20	3.8X
ASPA	48.77	252	iPc	46	48.00	-1.3
	1.0s		22.60nm			5.2mb
Z	19s		4.20um			5.4Msz
			e	46	52.40	15km
BCH	72.59	44	(P)	49	29.99	-1.7
GSC	74.89	46	(P)	49	44.88	-0.1
TNP	76.12	43	(P)	49	54.10	2.0
	0.3s		2.95nm			4.8mb
RSO	78.25	11	(P)	50	03.54	0.1
ARUT	78.50	45	(P)	50	06.10	0.9
SLKM	78.78	12	(P)	50	04.74	-1.3
RMW	78.91	33	eP	50	07.11	0.0
			e	50	17.67	34kmX
MSU	79.73	45	eP	50	12.20	0.2
DUG	80.15	43	(P)	50	14.07	0.0
	0.4s		2.81nm			4.6mb
SRU	81.14	45	eP	50	18.76	-0.7
ALQ	82.13	50	eP	50	23.83	-0.8
	1.2s		3.62nm			4 3mb
FBA	83.25	11	eP	50	28.12	-1.4
	0.8s		5.27nm			4.8mb
IMA	83.36	8	(P)	50	30.00	-0.3
	1.1s		4.38nm			4 6mb
			pP	50	36.20	20km
BW06	83.55	42	(P)	50	31.22	-0.6
	1.0s		3.56nm			4.5mb
BJI	85.04	314	eP	50	40.00	1.0
			e	50	45.00	16km
KMI	90.22	296	eP	51	12.00	7.3X
	1.5s		40.00nm			5.4mb
YKA	91.16	24	eP	51	07.40	-0.5
	1.2s		2.50nm			4.4mb
KSP	144.18	348	ePKP	57	39.70	0.2
SPC	144.77	343	ePKP	57	47.40	6.6X

PRU	145.33	350	ePKP	57	42.50	1.0
			e	57	45.50	
MLR	145.92	334	ePKP	57	44.00	1.1
KHC	146.32	350	PKP	57	45.00	1.7
	1.1s		8.00nm			
			e	57	49.00	
ZST	146.50	346	ePKP	57	37.50	-6.0X
SRO	146.56	344	ePKP	57	50.60	7.0X
GEC2	146.57	350	PKP	57	45.10	1.4
	0.6s		0.35nm			
			e	57	49.90	
GRR	147.34	8	ePKP	57	48.40	3.6X
	0.9s		17.05nm			
LPF	147.66	8	ePKP	57	48.10	2.8X
	0.8s		14.65nm			
SSF	149.03	2	ePKP	57	55.40	7.8X
	1.1s		14.15nm			
LBF	149.12	2	ePKP	57	55.50	7.7X
SKO	150.68	335	ePKP	57	55.50	5.3X
OHR	151.66	335	ePKP	57	55.50	3.7X

S.D. = 1.1 on 25 of 36 obs.

% MAY 18, 1993 03h 06m 43.09± 1.02s
39.741 N ±10.5km 24.177 E ± 6.6km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

PAIG	0.43	296	iPg	06	51.42	-0.4
			iSg	06	58.78	
OUR	0.61	346	iPg	06	54.74	-0.7
SOH	1.25	330	ePb	07	06.10	-0.2
LIT	1.35	286	ePb	07	08.98	1.1
AGG	1.60	244	ePb	07	10.34	-1.2
EZN	1.66	86	iPn	07	13.60	1.3
KNT	1.72	326	iPb	07	14.37	1.1
			eSb	07	37.26	
GRG	1.82	312	ePb	07	14.98	0.3
ALN	1.84	50	ePb	07	13.54	-1.4

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

& MAY 18, 1993 03h 07m 48.89s
37.076 N 117.819 W
DEPTH = 3.8km
CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. MD 3.5 (GM), 3.1 (PAS).
ML 3.2 (GS).

CWCR	0.57	317	P	08	00.00	-0.3
CASR	0.77	311	P	08	03.77	-0.5
MRCM	0.81	318	iPc	08	04.44	-0.6
CLKR	0.95	303	P	08	07.03	-0.8
BONR	0.96	337	eP	08	07.22	-0.7
MEMM	1.07	304	iPc	08	09.23	-0.3
			eS	08	22.37	
MMPM	1.10	299	iPc	08	09.52	-0.9
TNP	1.11	25	ePc	08	10.26	-0.2
TPNV	1.26	95	ePnc	08	12.81	-0.2
WORM	1.42	194	P	08	14.96	-0.6
WASM	1.46	204	P	08	15.76	-0.5
ISA	1.51	201	ePn	08	15.10	-1.7
WOFM	1.70	205	P	08	19.93	0.3
GSC	1.95	155	ePn	08	21.94	-1.3
KVN	1.98	354	eP	08	23.66	-0.1
			eS	08	52.36	
PHBM	2.00	246	P	08	25.35	1.5
PKEM	2.10	242	ePn	08	24.74	-0.6
PARM	2.19	249	P	08	27.95	1.3
CMB	2.25	296	ePn	08	27.05	-0.5
			eS	08	57.65	
PSRM	2.33	239	P	08	29.97	1.3
YEG	2.38	227	P	08	31.39	1.9
PRCM	2.40	251	P	08	30.35	0.7
MCUM	2.40	293	P	08	31.98	2.4
MARC	2.41	211	P	08	32.34	2.6
PHAM	2.42	240	ePn	08	30.47	0.5
MRFM	2.44	299	P	08	32.91	2.6
ABL	2.49	208	ePn	08	31.36	0.2
BCH	2.63	225	ePn	08	33.07	0.1
LRC	2.72	253	P	08	35.56	1.4
EKH	2.72	262	P	08	35.62	1.4
BHRM	2.78	264	P	08	37.45	2.4
CMPM	2.80	277	P	08	38.45	3.0
BSLM	2.84	265	P	08	39.79	3.8
SSK	2.86	178	eP	08	36.07	-0.3
SAO	2 92	265	ePn	08	36.54	-0.5
ARN	2 98	276	ePn	08	38.16	0.3
COE	3 08	275	ePn	08	41.12	1.8
			eS	09	28.46	
BPRM	3.21	259	P	08	41.34	0.2
PEC	3.22	170	eP	08	40.11	-1.2
ARUT	3.56	77	ePn	08	44.84	-1.4
JEGM	3.73	278	(P)	08	47.89	-0.6
PLM	3.80	168	ePn	08	48.25	-1.4
ORV	3.81	312	ePg	08	57.21	7.5
MSU	4.70	71	ePn	09	02.23	-0.2
GLA	4.70	148	(P)	09	01.24	-1.2
DUG	5.01	50	ePg	09	22.92	16.2
LBFM	5.31	325	(P)	09	11.77	0.7
SRU	6.10	68	ePn	09	22.40	0.1
DAU	6.12	55	ePg	09	40.58	18.0
PV09	7.02	76	ePg	10	02.26	26.9
PV10	7.08	77	ePg	10	01.90	25.8
PV08	7.41	76	ePg	10	09.42	28.6

52 obs. associated

? MAY 18, 1993 03h 07m 59.51± 2.01s
5.854 S ±13.7km 146.227 E ±33.9km
DEPTH = 33.0km (normal)
4.0mb (4 obs.)
EASTERN NEW GUINEA REG., P.N.G. (207)

MDG	0.75	323	iPd	08	13.50	-0.1
WB2	18.15	218	eP	12	10.30	-0.5
	0.3s		4.90nm		4.1mb	
ASPA	21.32	213	eP	12	47.00	1.1
	0.9s		4.70nm		3.9mb	
STK	26.25	189	eP	13	32.60	-1.0
	0.7s		2.10nm		3.9mb	
TOO	31.58	181	iPd	14	21.80	0.5
	0.8s		13.00nm		4.8mb	

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

& MAY 18, 1993 03h 16m 54.02s
37.126 N 117.846 W
DEPTH = 6.9km
CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. MD 3.0 (GM).

CWCR	0.52	315	P	17	04.07	-0.4
BHPR	0.54	289	P	17	04.50	-0.4
BCKR	0.71	324	P	17	07.46	-0.8
CASR	0.72	309	P	17	07.86	-0.6
MRCM	0.76	316	ePc	17	08.48	-0.8
			eS	17	18.39	
ORC	0.82	308	P	17	09.60	-0.8
BONR	0.90	337	eP	17	11.22	-0.6
CLKR	0.91	301	P	17	11.17	-0.7
MCSM	0.99	302	P	17	12.93	-0.4
MEMM	1.02	302	eP	17	13.22	-0.4
			eS	17	26.91	
WLHM	1.04	201	P	17	13.21	-1.0
MMPM	1.06	298	ePc	17	13.59	-0.9
			eS	17	27.56	
TNP	1.08	27	eP	17	14.35	-0.4
			eS	17	31.31	
VPEM	1.17	179	P	17	16.40	0.1
TPNV	1.29	97	ePc	17	17.85	-0.5
			eS	17	35.90	
WSHM	1.52	169	P	17	20.88	-0.8
ISA	1.54	199	eP	17	21.00	-1.1
WBSM	1.60	189	P	17	23.34	0.3
KVN	1.93	354	ePn	17	28.48	0.7
			eS	17	55.62	
PHBM	2.00	245	P	17	30.67	2.1
GSC	2.01	155	ePn	17	26.96	-1.8
			eS	17	56.24	
CMB	2.21	295	ePnc	17	31.06	-0.7
			eS	18	01.76	
MCUM	2.36	292	P	17	36.20	2.4
MNHM	2.57	294	P	17	40.54	3.8
BCH	2.65	224	ePn	17	39.14	1.1
SAO	2.91	264	ePn	17	42.21	0.6
			eS	18	26.57	
ARN	2.95	275	(Pn)	17	42.80	0.6
			eS	18	23.00	
CSTL	2.95	281	P	17	49.50	7.3
COE	3.06	274	P	17	53.26	9.6
ARUT	3.57	78	ePn	17	49.37	-1.7
			ePg	18	00.33	
ORV	3.76	311	(Pn)	17	54.16	0.4
PLM	3.85	168	(Pn)	17	53.83	-1.3

32 obs. associated

& MAY 18, 1993 03h 51m 34.43s
37.143 N 117.824 W
DEPTH = 7.1km
CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. ML 3.2 (GS).

CWCR	0.52	313	P	51	44.52	-0.4
BCKR	0.70	322	P	51	47.81	-0.8
MRCM	0.76	314	iPd	51	49.04	-0.6
BONR	0.90	335	iPd	51	51.54	-0.5
CLKR	0.91	300	P	51	51.70	-0.7
MCSM	1.00	301	P	51	53.40	-0.5
MEMM	1.03	301	iPc	51	53.88	-0.3
TNP	1.05	27	iP	51	54.49	-0.2
WLHM	1.06	202	P	51	53.88	-1.1
MMPM	1.07	296	iPc	51	54.14	-0.9
			eS	52	08.10	
TPNV	1.27	98	eP	51	58.48	0.0
NMC	1.30	183	P	51	58.77	0.0
WASM	1.52	203	P	52	02.16	-0.1
WSHM	1.53	170	P	52	01.64	-0.6
ISA	1.57	200	ePn	52	01.49	-1.3
WJPM	1.81	197	P	52	07.42	1.1
KVN	1.92	354	ePn	52	07.51	-0.5
			iPg	52	09.73	
GSC	2.01	156	ePd	52	08.04	-1.2
PHBM	2.02	244	P	52	10.96	1.7
ARVC	2.17	202	P	52	14.07	2.6
MSTM	2.19	291	P	52	14.25	2.5
PARM	2.21	247	P	52	13.71	1.6
CMB	2.22	294	ePn	52	11.67	-0.6
			ePg	52	14.18	
			eS	52	42.79	
CTM	2.36	240	P	52	20.10	5.8
PSRM	2.36	238	P	52	17.29	3.1
MRFM	2.41	298	P	52	17.75	2.8
PRCM	2.42	249	P	52	17.60	2 6
YEG	2.42	226	P	52	17.85	2.7
PHAM	2.45	239	ePn	52	16.00	0.5
MARC	2.46	210	P	52	19.02	3.4
PTV	2.55	247	P	52	21.64	4.8
ABL	2.55	207	ePn	52	18.14	1.0
			eS	52	52.20	
MNHM	2.58	294	P	52	20.79	3.6
BCH	2.68	224	eP	52	18.43	-0.4
BLRM	2.80	261	P	52	23.47	2.9
SAO	2.92	264	ePn	52	21.94	-0.3
SSK	2.93	178	eP	52	21.53	-0.9
ARN	2.97	275	ePn	52	22.81	0.0
COE	3.07	273	ePn	52	24.93	0.6
MSJ	3.25	278	P	52	34.27	7.5
PEC	3.29	170	eP	52	26.50	-0.9
ARUT	3.55	78	ePn	52	29.56	-1.6
			ePg	52	41.12	
ORV	3.76	311	ePn	52	33.48	-0.6
MSU	4.68	71	ePn	52	46.91	-0.4
			ePg	53	01.78	
GLA	4.76	148	(Pn)	52	48.34	-0.1
DUG	4.97	51	ePn	52	49.64	-1.7
LBFM	5.25	324	eP	52	55.77	0.3
HVU	6.06	39	ePg	53	28.93	22.2
SRU	6.08	69	ePg	53	27.53	20.4
PV09	7.01	76	ePg	53	43.05	22.7
PV10	7.07	77	(Pn)	53	19.92	-1.2
			ePg	53	48.10	
PV08	7.40	76	ePg	53	51.55	25.8

52 obs. associated

MAY 18, 1993 03h 52m 31.90± 0.50s
37.099 N ± 4.7km 117.857 W ± 5.4km
DEPTH = 5.0km (geophysicist)
CALIFORNIA-NEVADA BORDER REGION (40)
MD 3.3 (PAS). ML 3.1 (GS).

MRCM	0.77	318	eP	52	47.03	-0.5
MEMM	1.03	304	iPc	52	51.78	0.0
			eS	53	04.98	
MMPM	1.06	299	eP	52	51.84	-0.8
			eS	53	06.45	
TNP	1.10	27	eP	52	53.15	-0.1
TPNV	1.29	96	ePn	52	55.37	-1.1
			eS	53	15.13	
ISA	1.52	199	eP	52	58.97	-0.8
KVN	1 96	354	(Pn)	53	07.55	1.3
GSC	1.98	154	eP	53	06.65	0.1
PKEM	2.09	241	(Pn)	53	06.36	-1.6
CMB	2.22	296	eP	53	11.05	1.1
ABL	2.50	207	ePn	53	15.27	1.1

18d 03h

BCH	2.63	224	eP	53 16.03	0.2
PEC	3.25	170	eP	53 25.83	1.3
GLA	4.74	148	(P)	53 45.70	-0.1

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

& MAY 18, 1993 04h 10m 28.41s
37.198 N 117.824 W
DEPTH = 0.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. MD 3.1 (GM), 3.0 (PAS).
ML 3.5 (BRK), 3.0 (GS).

CWCR	0.49	308	P	10 38.20	0.1
BHPR	0.54	281	P	10 39.50	0.3
BCKR	0.66	319	P	10 41.38	-0.3
CASR	0.69	303	P	10 42.29	0.1
MRCM	0.72	311	iP	10 42.50	-0.3
			S	10 52.66	
BONR	0.85	333	eP	10 45.08	-0.2
CLKR	0.89	297	P	10 45.79	-0.4
MEMM	1.00	298	iPc	10 47.90	-0.4
			S	11 01.72	
TNP	1.01	28	eP	10 47.16	-1.4
MMPM	1.04	294	ePc	10 48.37	-0.9
			S	11 01.00	
WLHM	1.11	201	P	10 49.43	-1.0
VPEM	1.25	180	P	10 51.79	-0.8
TPNV	1.28	101	ePc	10 52.01	-1.2
WCHM	1.33	189	P	10 53.62	-0.5
NMC	1.35	183	P	10 54.20	-0.2
FRI	1.52	263	iP	10 56.70	-0.2
			eS	11 16.46	
WSHM	1.59	170	P	10 58.74	0.8
ISA	1.62	199	eP	10 57.92	-0.5
			S	11 18.93	
WBSM	1 68	189	P	10 59.50	0.1
WJPM	1.86	197	P	11 04.05	2.1
KVN	1 86	353	eP	10 59.62	-2.4
PHBM	2.05	243	P	11 06.32	1.8
GSC	2.06	156	eP	11 02.26	-2.6
PKEM	2.16	239	(Pn)	11 07.72	1.6
CMB	2.20	293	iPc	11 08.56	1.8
			eS	11 36.57	
PARM	2.23	246	P	11 09.02	1.8
MCUM	2.35	290	P	11 11.38	2.5
BRMM	2.43	262	P	11 12.56	2.5
BMSM	2.44	258	P	11 11.76	1.5
YEG	2.46	225	P	11 13.47	2.9
PHAM	2.48	238	ePn	11 12.44	1.7
MARC	2.51	210	P	11 14.72	3.5
PRI	2.52	246	eP	11 13.32	1.9
			eS	11 48.19	
LLA	2.57	258	eP	11 13.77	1.8
ABL	2.60	206	(Pn)	11 12.85	0.2
			S	11 48.56	
BCH	2.72	223	ePn	11 14.31	0.1
			S	11 50.37	
LTR	2.81	265	P	11 17.09	1.7
SAO	2.93	263	ePn	11 16.19	-1.0
			S	12 01.22	
ARN	2 96	274	eP	11 19.71	2.0
PRS	2.98	254	eP	11 18.53	0.7
SSK	2.98	178	ePn	11 17.71	-0.4
MHC	3.05	274	ePc	11 20.45	1.5
			eS	12 06.51	
COE	3.07	272	(Pn)	11 22.15	3.0
			S	12 08.60	
PEC	3.34	170	ePn	11 20.77	-2.3
ARUT	3 54	79	ePn	11 23.57	-2.3
			S	11 35.17	
BKS	3.57	282	ePc	11 27.94	1.7
ORV	3.73	310	(Pn)	11 27.47	-1.0
PLM	3.92	168	ePn	11 28.86	-2.5
MSU	4.66	72	(Pn)	11 41.85	-0.1
			S	12 56.16	
DUG	4.93	51	Pg	12 01.32	15.6
HVU	6.01	39	(Pn)	12 00.39	-0.6
DAU	6.05	56	(Pn)	12 02.96	1.3
SRU	6.06	69	(Pn)	11 58.82	-2.9
PV09	7.00	77	(Pn)	12 12.69	-2.3
PV10	7.06	78	(Pn)	12 12.64	-3.2
PV08	7.39	76	(Pn)	12 15.90	-4.6

56 obs. associated

& MAY 18, 1993 04h 17m 50.18s
37.224 N 117.822 W
DEPTH = 7.4km
CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. MD 3.0 (GM).

CWCR	0.47	305	P	17 59.29	-0.4
BHPR	0.54	278	P	18 00.48	-0.5
BCKR	0.64	317	P	18 02.44	-0.7
CASR	0.68	301	P	18 03.27	-0.6
MRCM	0.70	310	eP	18 03.68	-0.6
			eS	18 13.77	
CLKR	0.88	295	P	18 06.78	-0.7
MCSM	0.96	297	P	18 08.25	-0.7
TNP	0.98	29	ePd	18 08.43	-0.8
			eS	18 21.35	
MEMM	0.99	297	eP	18 08.88	-0.3
			eS	18 22.40	
MMPM	1.03	292	ePc	18 09.38	-0.8
			eS	18 23.38	
WLHM	1.14	200	P	18 10.44	-1.5
VPEM	1.27	180	P	18 13.47	-0.7
TPNV	1.29	102	eP	18 13.28	-1.1
			eS	18 30.65	
WCHM	1.35	189	P	18 15.30	-0.3
NMC	1.38	183	P	18 15.82	0.0
WORM	1.56	193	P	18 18.31	-0.1
WASM	1.60	202	P	18 19.27	0.2
WSHM	1.61	170	P	18 19.79	0.7
ISA	1.64	199	ePn	18 18.34	-1.3
			eS	18 40.35	
WBSM	1.70	189	P	18 20.90	0.3
WOFM	1.83	203	P	18 23.26	0.9
GSC	2 09	156	(Pn)	18 26.16	0.1
CMB	2 19	292	ePn	18 27.36	-0.2
			ePg	18 29.56	
			eS	18 55.42	
PARM	2.25	245	P	18 30.04	1.7
MCUM	2.34	289	P	18 32.36	2.7
BRMM	2.43	262	P	18 33.56	2.6
MNHM	2.55	292	P	18 35.80	3.3
ABL	2 63	206	(Pn)	18 33.96	0.1
LRC	2.76	250	P	18 37.34	1.7
SAO	2.94	262	ePn	18 38.24	0.2
ARN	2.96	274	ePn	18 40.51	2.0
			eS	19 20.00	
ARUT	3.53	79	ePn	18 44.59	-2.1
			eS	19 40.80	
DUG	4.91	51	ePn	19 06.98	0.7
			ePg	19 21.70	
			eS	20 20.82	
EMUT	6.07	63	(Pn)	19 21.21	-1.5
			ePg	19 43.04	

34 obs. associated

MAY 18, 1993 04h 39m 05.72± 0.32s
37.250 N ± 3.0km 117.761 W ± 2.9km
DEPTH = 5.0km (geophysicist)
CALIFORNIA-NEVADA BORDER REGION (40)
MD 3.0 (GM). ML 2.8 (GS).

CWCR	0.50	300	P	39 13.94	-1.8
BHPR	0.58	275	P	39 17.20	-0.2
BCKR	0.66	313	P	39 19.09	0.2
CASR	0.71	297	P	39 20.12	0.2
MRCM	0.73	306	ePc	39 20.40	0.1
			eS	39 30.84	
BONR	0.82	329	ePn	39 22.37	0.0
CLKR	0.91	292	P	39 23.48	-0.4
TNP	0.94	27	eP	39 24.69	0.5
MCSM	1.00	294	P	39 25.20	-0.1
MEMM	1.03	294	ePc	39 25.47	-0.1
			eS	39 38.91	
MMPM	1.07	290	ePnd	39 25.88	-0.7
WLHM	1.18	202	P	39 26.92	-1.5
TPNV	1.25	104	ePn	39 29.24	-0.2
VPEM	1.30	182	P	39 29.51	-0.8
NMC	1.41	185	P	39 32.22	0.1
WSHM	1.63	172	P	39 36.60	1.4
ISA	1.68	200	eP	39 35.94	-0.1
KVN	1.82	352	ePn	39 38.86	0.8
PHBM	2.12	243	P	39 43.88	1.7
CMB	2.23	291	ePn	39 43.98	0.1
			ePg	39 46.35	
PARM	2.30	245	P	39 46.59	1.7X
MCUM	2.38	289	P	39 48.88	2.8X
BRMM	2.49	261	P	39 49.86	2.3X
BMSM	2.50	257	P	39 49.40	1.6X
PHAM	2.55	237	(Pn)	39 49.45	1.0
MARC	2.58	210	P	39 52.25	3.4X
MNHM	2.58	291	P	39 52.52	3.7X
ABL	2.67	207	ePn	39 50.04	-0.3
BCH	2.79	223	ePn	39 52.26	0.3
BLRM	2.87	259	P	40 00.00	7.0X
SAO	2.99	262	ePn	39 53.64	-1.0
ARN	3.01	273	ePn	39 55.93	1.0
COE	3.12	271	ePn	39 57.17	0.7
ARUT	3.48	80	ePn	40 01.79	0.0
JBLM	3.52	269	P	40 07.75	5.5X
ORV	3.73	309	(Pg)	40 14.00	8.8X
MSU	4.60	72	ePn	40 16.88	-0.8
			ePg	40 32.73	
DUG	4.86	51	(Pn)	40 21.27	-0.1
EMUT	6.02	63	ePg	41 01.08	23.3X

S.D. = 0.8 on 29 of 39 obs.

& MAY 18, 1993 05h 10m 47.29s
37.167 N 117.799 W
DEPTH = 5.7km
3.1mb (1 obs.)
CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. MD 3.7 (GM), 3.4 (PAS).
ML 3.8 (BRK), 3.5 (GS).

CWCR	0.52	309	P	10 57.47	-0.3
CASR	0.72	304	P	11 01.36	-0.4
MRCM	0.76	312	iPc	11 01.84	-0.7
BONR	0.88	333	iPc	11 04.47	-0.4
MCSM	1.01	299	P	11 06.42	-0.5
TNP	1.02	27	iPd	11 07.38	0.2
MEMM	1.04	299	iPc	11 06.90	-0.3
MMPM	1.07	295	iPc	11 07.34	-0.8
TPNV	1.26	99	iPc	11 11.52	0.3
			S	11 29.90	
NMC	1.32	184	P	11 12.14	-0.1
FRI	1.54	264	iP	11 15.20	-0.1
			eS	11 34.32	
WSHM	1.55	171	P	11 15.32	-0.3
ISA	1.60	200	ePn	11 15.49	-0.7
			eS	11 36.85	
WBSM	1.65	190	P	11 17.36	0.2
WJPM	1.84	198	P	11 21.00	1.2
KVN	1.90	353	ePnd	11 20.50	-0.2
			eS	11 48.40	
GSC	2.03	156	eP	11 21.40	-1.1
CMB	2.23	294	ePc	11 24.84	-0.6
			eS	11 55.77	
MCUM	2.38	291	P	11 27.32	-0.2
MRFM	2.41	297	P	11 31.21	3.2
BMSM	2.45	259	P	11 30.18	1.6
PHAM	2.48	238	ePn	11 29.54	0.6
PRI	2.52	247	eP	11 31.53	1.9
			eS	12 04.69	
PTV	2.58	247	P	11 32.04	1.7
LLA	2.58	259	eP	11 32.33	2.0
			eS	12 05.05	
ABL	2.58	207	ePn	11 31.29	0.7
MOP	2.59	249	P	11 33.99	3.5
BCH	2.71	224	ePn	11 32.64	0.4
ADWM	2.73	299	P	11 36.70	4.2
EKH	2.75	261	P	11 35.43	2.6
ASMM	2.82	307	P	11 38.84	5.0
PANM	2.86	242	P	11 36.52	2.1
COSM	2.87	278	P	11 37.09	2.5
SHG	2.87	256	P	11 36.27	1.8
AASM	2.91	297	P	11 39.41	4.4
GHS	2.92	270	P	11 37.40	2.2
SCCM	2.94	222	P	11 38.90	3.4
SAO	2.95	263	ePn	11 34.99	-0.6
SSK	2.95	178	ePn	11 35.72	-0.1
ARN	2.98	275	ePn	11 35.71	-0.4
			eS	12 18.65	
PRS	2.99	255	eP	11 36.59	0.5
MHC	3.07	274	ePc	11 37.06	-0.3
			eS	12 19.81	
AHRM	3.08	304	P	11 43.11	5.6
COE	3.09	273	ePn	11 38.78	1.2
ARRM	3.11	302	P	11 44.50	6.7
CDAL	3.18	281	P	11 45.60	6.8
JSTM	3.19	272	P	11 42.90	3.9
APRM	3.19	303	P	11 44.34	5.3
AARM	3.30	311	P	11 47.77	7.1
AVRM	3.31	305	P	11 47.06	6.4
PEC	3.31	171	eP	11 39.95	-0.8
HMR	3.32	288	(Pn)	11 41.51	0.6
GCC	3.36	269	eP	11 42.19	0.8
STAN	3.50	275	eP	11 46.23	2.9

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AOHM     3.50 310 P      11 50.58   7.1
ARUT     3 52  79 ePn    11 42 83  -1.0
                  ePg    11 54.12
                  eS     12 40.61
BKS      3.60 283 ePc    11 46.35   1.6
                  eS     12 38.45
ZSP      3.63 284 eP     11 46.43   1.3
JEGM     3.73 277 eP     11 46.91   0.2
ORV      3.76 310 eP     11 46.81  -0.3
PLM      3.88 168 ePn    11 47.92  -1.1
NTYM     4.04 289 ePn    11 51.15   0.1
MIN      4.35 318 eP     11 57.11   1.5
MSU      4.65  71 ePn    11 58.76  -1.2
                  ePg    12 14.62
                  eS     13 15.04
GLA      4.77 148 ePn    11 59.52  -2.0
DUG      4.94  51 ePn    12 03.67  -0.3
                  ePg    12 20.69
LGPM     5.41 315 ePg    12 24.34  13.6
HVU      6.03  39 (Pn)   12 20.44   1.1
                  ePg    12 40.85
                  eSg    13 59.34
DAU      6.05  56 ePn    12 20.96   1.1
                  ePg    12 42.78
SRU      6.05  69 ePn    12 20.57   0.8
                  ePg    12 39.52
EMUT     6.08  62 (Pn)   12 21.54   1.3
PV09     6.99  76 (Pn)   12 34.33   1.3
PV10     7.04  77 ePn    12 34.29   0.5
                  ePg    12 58.61
PV08     7.37  76 eP     12 40.87   2.4
TUC      7.54 128 eP     12 39.62  -0.9
ALQ      9.45 100 (P)    13 08.25   1.1
YKA     25.43   3 eP     16 16.80  -0.2
        0.5s      0.20nm          3.1mb
        77 obs. associated
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   MAY  18, 1993  05h 13m 57.32± 0.33s
    5.369 S ± 6.4km  152.370 E ± 9.4km
   DEPTH =  33.0km  (normal)
    4.9mb ( 17 obs.) 4.8Msz ( 15 obs.)
 NEW BRITAIN REGION, P.N.G.        (192)
      Mw 5.3 (HRV).
      CENTROID, MOMENT TENSOR      (HRV)
      Doto Used: GDSN
      L.P.B.: 21S, 30C
      Centroid Location:
      Origin Time        05:14: 4.5 1.0
      Lot  4.93S 0.12 Lon 152.B2E 0.13
      Dep  15.0 FIX Half-durotion  1.1
      Moment Tensor;   Scale 10**16 Nm
        Mrr= 4.26 0.62  Mtt=-2.21 0.54
        Mff=-2.05 0.74  Mrt= 7.82 1.73
        Mrf= 1.44 1.80  Mtf=-2.15 0.56
       Principal Axes:
        T  Val=  9.49  Plg=56  Azm=  0
        N       -1.01      12      252
        P       -8.48      31      154
      Best Double Couple:Mo=9.0*10**16
       NP1:Strike=210 Dip=18 Slip=  47
       NP2:        74     77      102

RAB      1.19 350 iPd    14 19.50   1.8
CTA     15.79 202 P      17 46.09   7.1X
QIS     19.54 218 iPc    18 31.20   5.9X
        0.9s    24.00nm          4.5mb
BKM     19.76 130 iPd    18 38.60  11.0X
GUA     20.19 339 eP     18 32.50   0.3
        0.9s   201.68nm          5.5mb
GUMO    20.25 338 eP     18 33.00   0.2
        1.1s   111.00nm          5.1mb
PJG     20.25 338 eP     18 33.50   0.7
DZM     21.47 142 iPc    18 47.10   1.7
WB2     22.74 229 iPd    18 57.80  -0.1
        0.5s    36.90nm          5.1mb
WRA     22.75 229 P      18 58.00   0.0
        0.8s    14.60nm          4.5mb
ASPA    25.44 223 eP     19 24.50   0.5
        0.8s    35.00nm          5.0mb
                  eS     23 58.90
STK     28.24 200 eP     19 48.90  -0.6
        0.7s     4.40nm          4.3mb
MEEK    38.52 233 eP     21 15.00  -3.7X
HON     55.41  60 P      23 40.00   8.9X
     Z  20s      0.24um          4.3Msz
CHTO    57 85 296 eP     23 47.20  -1.4
KDC     76.90  27 eP     25 48.00   0.3

SVW     77.50  23 ePc    25 51.94   0.8
        0.7s     26.39nm          5.4mb
RSO     78.28  24 eP     25 53.54  -2.1
TTA     78.45  21 eP     25 55.62  -0.8
        0.7s      9.81nm          4.9mb
CRP     78.97  24 eP     25 57.93  -1.4
SLKM    79.36  25 ePc    26 00.83  -0.5
PMR     80.38  24 ePd    26 05.98  -0.7
        0.7s     20.40nm          5.2mb
     Z  20s      0.25um          4.6Msz
IMA     81.13  20 eP     26 10.47  -0.3
        0.8s      7.06nm          4.7mb
KLU     81.67  25 ePc    26 13.74   0.1
FBA     82.57  22 ePc    26 17.07  -1.0
        0.7s     30.83nm          5.5mb
BALM    83.02  26 eP     26 20.90   0.2
INK     89.14  21 eP     26 51.50   1.1
        0.9s      4.00nm          4.7mb
SAO     90.13  53 P      27 10.00  14.2X
     Z  20s      0.42um          4.9Msz
GMW     90.44  42 eP     26 57.86   0.9
CMB     91.10  52 P      27 10.00   9.7X
     Z  20s      0.42um          4.9Msz
ISA     92.41  55 P      27 20.00  13.6X
     Z  21s      0.32um          4.8Msz
MBC     94.76  14 eP     27 16.00  -0.3
        0.9s      3.00nm          4.7mb
YKA     96.13  28 eP     27 22.50  -0.3
        0.7s      3.10nm          4.9mb
DUG     97.11  50 P      27 40.00  12.1X
     Z  20s      0.23um          4.7Msz
TUC     98.62  58 P      27 40.00   5.2X
     Z  19s      0.17um          4.6Msz
BW06    99.55  48 eP     27 38.61  -0.4
        0.7s      1.94nm          4.7mb
PV10   100.04  52 ePdiff 27 42.37   0.9
GOL    102.84  51 Pdiff  28 00.00   6.1X
     Z  20s      0.35um          4.9Msz
RSSD   103 48  46 ePdiff 27 55.38  -1.1
        0.7s      3.20nm          5.2mb
     Z  19s      0.14um          4.5Msz
MIAR   112.80  55 PKP    32 40.00   7.1X
     Z  20s      0.20um          4.7Msz
FVM    114.62  51 PKP    32 50.00  13.6X
     Z  19s      0.61um          5.2Msz
MYNC   120.26  52 PKP    33 00.00  12.8X
     Z  20s      0.26um          4.9Msz
GOGA   121.24  54 PKP    33 00.00  10.9X
     Z  20s      0.19um          4.7Msz
GEC2   124.31 328 PKP    32 54.80   0.1
        0.7s      1.49nm
                  e      33 02.00
CBM    125.92  33 PKP    33 10.00  12.3X
     Z  20s      0.25um          4.9Msz
HRV    126.36  40 PKP    33 10.00  11.3X
     Z  21s      0.20um          4.8Msz
ZOBO   134.54 119 PKP    33 17.00   1.3
PPD    144.23 140 ePKP   33 31.40  -1.1
AVE    146.44 328 iPKP   33 37.00   1.2
                  i      33 51.50
BAO    150.98 136 (PKP)  33 56.00  12.5X
                  e      34 10.10
                  e      34 26.50
      S.D. = 1.0  on  32 of  50 obs.
-------------------------------------
%  MAY  18, 1993  05h 20m 37.76± 3.33s
    33.781 S ±15.2km   70.980 W ± 8.4km
    DEPTH =  65.6 ± 32.3 km
 CHILE-ARGENTINA BORDER REGION    (127)
      MD 3.1 (SAN).

TACH     0.13  15 iP     20 47.80   0.0
                  iS     20 55.23
CHCH     0.31 119 iP     20 48.73   0.0
                  iS     20 57.53
LNV      0.40 244 iP     20 49.46   0.1
                  iS     20 57.94
PCH      0.42  68 iP     20 49.63  -0.1
                  iS     20 58.51
LCCH     0.58 302 iP     20 51.07  -0.1
                  iS     21 00.78
PEL      0.68  21 iPd    20 52.63   0.2
                  iS     21 03.72
FCH      0.73  52 iPd    20 53.34   0.0
                  iS     21 05.07
ROCH     0.81 358 iP     20 54.14   0.0
                  iS     21 06.43

JACH     1.14  17 iP     20 58.17  -0.1
                  iS     21 13.46
      S.D. = 0.1  on   9 of   9 obs.
-------------------------------------
%  MAY  18, 1993  05h 32m 37.57± 0.72s
    26.391 S ± 7.9km   27.481 E ± 7.9km
    DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA          (584)
      ML 2.8 (PRE).

PRY      0.53 181 eP     32 48.00  -0.3
                  S      32 55.00
BFS      0.80 231 eP     32 53.60  -0.1
                  S      33 04.00
SLR      0.97  48 iPd    32 56.10  -0.5
                  S      33 09.00
SEK      1.93 176 iPc    33 12.20   0.7
                  S      33 36.00
SWZ      2.08 247 eP     33 14.20   0.5
                  S      33 38.70
BFT      2.41  74 eP     33 19.00   0.5
                  S      33 48.00
BLF      2.94 203 eP     33 25.50  -0.5
FRS      3.85 209 eP     33 38.50  -0.3
      S.D. = 0.6  on   8 of   8 obs.
-------------------------------------
*  MAY  18, 1993  06h 06m 30.72± 1.38s
     1.628 N ± 8.5km  126.344 E ±11.8km
    DEPTH =  96.0 ± 13.2 km
    5.0mb ( 12 obs.)
 NORTHERN MOLUCCA SEA              (266)

MNI      1.52 263 ePd    06 57.50   0.2
                  eS     07 20.00
CTB      5.93 339 ePc    07 59.50   1.8
TSM      8.86 288 ePc    08 37.50  -0.4
WB2     22.83 160 eP     11 25.20  -1.2
        0.7s     98.60nm          5.3mb
                  eS     15 24.10
ASPA    26.20 164 iPd    11 57.10  -1.2
        0.4s     28.50nm          5.2mb
                  eS     16 25.20
CHTO    31.B2 304 eP     12 48.20  -0.4
STK     36.33 158 iPc    13 26.50  -0.5
        0.3s      6.60nm          5.0mb
MAT     36.43  16 eP     13 25.00  -2.9
        1.0s     22.00nm          5.0mb
ARMA    39.96 145 eP     13 57.30  -0.2
        1.1s     20.00nm          4.9mb
BWA     41.42 152 eP     14 10.50   1.1
CAN     42.43 152 eP     14 17.90   0.3
GUN     46.67 308 P      14 51.40  -0.7
        0.4s     11.00nm          5.1mb
PKI     46.89 307 P      14 54.40   0.5
KKN     47.09 307 P      14 53.00  -2.3
DMN     47.15 307 P      14 56.40   0.6
GKN     47.70 307 P      15 00.20   0.3
GBA     49.80 286 P      15 16.00  -0.1
YAK     60.29   2 iPc    16 30.10  -1.0
        1.0s     75.00nm          5.8mb
SDN     79.13  34 eP     18 25.79  -0.3
        1.0s     65.48nm          5.4mb
TTA     82.94  27 eP     18 45.82  -0.3
        1.3s     13.07nm          4.7mb
CP2     84.44  29 eP     18 53.99   0.1
IMA     84.45  24 eP     18 54.49   0.7
        0.7s      3.24nm          4.4mb
PMR     85.96  29 eP     19 00.50  -0.6
        0.9s     10.97nm          4.9mb
INK     92.25  21 eP     19 32.00   1.3
KAF     93.27 332 eP     19 36.00   0.5
MBC     94.07  13 eP     19 39.00   0.0
YKA    101.56  24 ePdiff 20 12.90  -0.1
        0.8s      0.40nm          4.2mb
LPB    159.47 137 PKP    26 23.00   2.6
ZOBO   159.63 136 ePKP   26 23.00   2.2
                  e      27 01.00
      S.D. = 1.2  on  29 of  29 obs.
-------------------------------------
   MAY  18, 1993  06h 45m 46.06± 0.33s
    39.292 N ± 3.2km   27.924 E ± 3.1km
    DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 3.4 (ISK).

KCT      1.01  19 iPg    46 04.90  -0.3
IZM      1.03 210 iPg    46 05.00  -0.6
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18d 06h

			iSg	46	19.00	
EDC	1.05	358	iPg	46	05.50	-0.4
			eSg	46	20.50	
BNT	1.06	360	iPg	46	05.40	-0.7
KGT	1.25	338	iPg	46	09.40	0.1
EZN	1.35	294	ePn	46	11.10	0.3
KHL	1.58	127	iPn	46	14.70	0.4
YLV	1.69	41	iPn	46	15.90	0.0
CIN	1.69	176	eP	46	15.00	-0.8
ALT	1.72	97	ePn	46	17.20	1.0
CTT	1.89	12	iPn	46	18.40	-0.3
GBZT	1.90	38	ePn	46	15.30	-3.4X
ISK	1.97	26	ePn	46	19.40	-0.4
HRT	2.03	41	ePn	46	20.40	-0.4
GPA	2.09	61	ePn	46	22.00	0.4
EYL	2.14	53	ePn	46	22.40	0.0
ALN	2.16	319	iP	46	23.33	0.8
DMK	2.53	357	iPn	46	28.10	0.3
OUR	3.21	290	eP	46	37.77	0.3
PAIG	3.34	282	eP	46	46.26	6.9X
SRS	3.78	300	eP	46	46.10	0.4
SOH	3.83	295	eP	46	45.62	-0.7
KNT	4.28	297	eP	46	53.26	0.6

S.D. = 0.5 on 21 of 23 obs.

& MAY 18, 1993 07h 03m 25.81s
37.061 N 117.725 W
DEPTH = 0.3km
CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. MD 3.1 (GM). Double event.

CWCR	0.63	313	P	03	38.40	-0.1
BHPR	0.65	292	P	03	38.72	-0.1
BCKR	0.82	321	P	03	41.81	-0.3
CASR	0.84	308	P	03	42.36	-0.1
MRCM	0.87	315	ePc	03	42.80	-0.4
ORC	0.94	308	P	03	43.64	-0.9
BONR	1.00	333	eP	03	45.50	-0.4
CLKR	1.02	301	P	03	45.61	-0.7
TNP	1.10	21	ePd	03	47.93	0.5
MCSM	1.11	303	P	03	47.22	-0.5
MEMM	1.14	302	ePc	03	47.63	-0.4
MMPM	1.17	298	eP	03	47.98	-0.9
TPNV	1.19	95	eP	03	50.45	1.5
ISA	1.52	204	ePn	03	54.91	0.5
GSC	1.91	157	ePn	03	59.58	-0.4
CM8	2.33	295	ePn	04	05.52	-0.5
			ePg	04	08.05	
			e	04	23.60	
ABL	2.52	209	(P)	04	06.34	-2.5
BCH	2.67	226	ePn	04	10.91	-0.1
ARN	3.05	277	(Pn)	04	16.99	0.7
ARUT	3.49	77	ePn	04	22.51	-0.1
			ePg	04	33.16	

20 obs. associated

MAY 18, 1993 07h 17m 54.11± 0.40s
51.046 N ± 8.4km 178.625 W ± 5.1km
DEPTH = 20.4km (4 depth phases)
4.2mb (16 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS. (7)

ADK	1.48	55	ePd	18	20.26	0.6
			eS	18	38.04	
SMY	4.81	293	eP	19	08.86	1.8
			eS	20	11.56	
SVW	16.23	43	eP	21	43.22	1.0
	0.8s		21.96nm		4.3mb	
KDC	16.56	56	eP	21	46.25	-0.1
	0.4s		4.18nm		3.9mb	
TTA	17.01	37	eP	21	52.65	0.5
	1.1s		10.04nm		3.9mb	
RSO	17.23	47	eP	21	56.02	1.0
CRP	17.81	45	eP	22	02.58	0.4
SLKM	18.43	48	eP	22	09.59	-0.1
PMS	18.97	46	eP	22	17.80	1.5
IMA	19.68	31	eP	22	24.50	-0.1
	1.1s		13.24nm		4.1mb	
KLU	20.72	47	eP	22	35.84	0.4
FBA	21.14	37	eP	22	38.38	-1.3
	0.7s		5.03nm		4.0mb	
INK	27.67	35	eP	23	41.50	-0.6
MBC	33.88	22	eP	24	36.50	-0.3
	1.0s		1.00nm		3.7mb	
YKA	35.38	46	eP	24	47.60	-2.3
	0.6s		0.90nm		3.9mb	
GMW	35.84	73	eP	24	55.50	1.5
NEW	38.90	69	ePc	25	20.39	0.7
	0.8s		12.28nm		4.7mb	
LRM	42.89	70	eP	25	52.50	-0.3
HVU	44.93	75	(P)	26	09.79	0.5
DUG	45.84	77	eP	26	16.85	0.4
	0.8s		4.62nm		4.5mb	
			epP	26	22.90	20km
			esP	26	27.96	
BW06	46.30	72	ePd	26	20.34	0.2
	0.8s		11.11nm		4.9mb	
GSC	46.37	85	eP	26	20.93	0.3
DAU	46.66	76	eP	26	24.12	1.0
			epP	26	30.48	21km
MSU	47.25	78	eP	26	27.90	0.2
			epP	26	34.84	23km
			esP	26	38.29	
SRU	47.90	77	eP	26	32.79	0.0
RSSD	48.79	67	ePd	26	38.98	-0.6
	0.5s		1.94nm		4.4mb	
PV09	49.13	76	eP	26	41.87	-0.5
PV10	49.27	76	eP	26	43.45	0.0
			epP	26	48.64	17km
PV08	49.38	76	eP	26	44.10	-0.3
GOL	50.67	73	eP	26	54.06	-0.1
	0.7s		4.92nm		4.6mb	
MIAR	61.13	70	eP	28	07.92	-1.2
	1.0s		4.12nm		4.5mb	
OLY	61.71	68	eP	28	11.30	-1.7
GOGA	67.82	64	(P)	28	52.28	-0.3
JSC	68.42	62	eP	28	55.51	-0.8
UPP	68.67	351	iP	28	54.90	-2.5
GUN	72.08	292	P	29	18.80	-0.3
KKN	72.52	293	P	29	21.40	-0.2
	0.7s		42.00nm		5.6mb X	
PKI	72.61	292	P	29	21.80	-0.4
	0.8s		28.00nm		5.4mb X	
DMN	72.76	293	P	29	23.60	0.6
	0.8s		27.00nm		5.3mb X	
GEC2	79.93	352	P	30	01.80	-1.0
	0.8s		1.30nm		4.0mb	
WRA	81.85	224	P	30	13.40	0.4
	0.9s		0.80nm		3.8mb	
BOB	84 31	354	P	30	25.80	0.2
PGD	85.03	353	P	30	30.20	0.9
STK	89.71	213	eP	30	52.30	0.7
	1.3s		1.30nm		4.0mb	

S.D. = 0.9 on 44 of 44 obs.

MAY 18, 1993 08h 04m 18.98± 0.10s
61.031 N ± 1.8km 149.953 W ± 1.6km
DEPTH = 51.1km (32 depth phases)
5.2mb (106 obs.)
SOUTHERN ALASKA (2)
Mw 5.2 (HRV). ML 5.2 (AEIC), 5.2 (PMR). Felt (V) at Anchorage, Cooper Landing, Eagle River, Fort Richardson, Houston, Palmer and Wasilla; (IV) at Chugiak, Hope, Kasilof, Kenai, Moose Pass, Seward, Soldotna, Sterling, Willow and in the Kenai Lake area.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 30S, 49C
Centroid Location:
Origin Time 08:04:23.6 0.2
Lat 60.83N 0.05 Lon 149.87W 0.06
Dep 67.3 3.2 Half-duration 1.0
Moment Tensor; Scale 10**16 Nm
Mrr=-4.77 0.30 Mtt=-1.28 0.61
Mff= 6.05 0.42 Mrt= 1.32 0.34
Mrf=-1.14 0.44 Mtf= 1.78 0.33
Principal Axes:
T Val= 6.52 Plg= 4 Azm=102
N -1.06 22 10
P -5.46 67 202
Best Double Couple:Mo=6.0*10**16
NP1:Strike=215 Dip=45 Slip= -58
NP2: 352 53 -118

PMS	0.29	41	iPd	04	29.12	0.9
PTE	0.48	110	iPd	04	30.31	0.2
			eS	04	38.81	
SLKM	0.54	194	iPd	04	30.88	0.0
			eS	04	39.18	
SUA	0.58	319	iPc	04	32.97	1.5
			eS	04	43.44	
MPA	0.62	152	P	04	31.60	-0.2
			S	04	40.80	
PWA	0.62	3	iPd	04	33.42	1.6
PLRM	0.69	35	iPd	04	33.80	1.1
PMR	0.69	35	iPd	04	33.70	1.0
NKA	0.69	246	iPc	04	35.06	2.3
GHO	0.89	33	P	04	37.00	1.5
			S	04	51.60	
SEW	0.96	165	P	04	35.70	-0.7
SPU	1.03	279	iPc	04	38.72	1.3
			eS	04	53.26	
CGLM	1.03	286	eP	04	39.03	1.6
CPAM	1.09	283	iPc	04	39.95	1.7
			eS	04	55.82	
CRP	1.09	283	iPc	04	40.11	1.7
CKN	1.10	281	iPc	04	40.05	1.7
SML	1.10	44	P	04	39.70	1.3
CKT	1.11	280	iPc	04	39.83	1.3
CP2	1.13	283	iPc	04	40.77	1.8
CKL	1.17	279	iPc	04	40.89	1.5
BGL	1.21	282	iPc	04	41.58	1.7
SKT	1.22	322	P	04	42.00	2.1
			S	04	59.10	
BRLK	1.35	200	iPd	04	42.06	0.2
			eS	05	00.07	
CUT	1.39	354	eP	04	45.53	3.2X
DFR	1.41	253	iPc	04	43.53	0.8
RDN	1.47	251	iPc	04	44.42	0.8
			eS	05	03.60	
RSO	1.49	249	P	04	44.70	0.8
SCM	1.50	56	P	04	45.00	1.1
RDW	1.51	250	iPc	04	45.09	0.9
NCT	1.53	253	iPc	04	45.44	1.0
CNPM	1.64	204	iPd	04	46.12	0.2
VLZ	1.76	85	iPc	04	47.87	0.3
XLV	1.81	210	ePc	04	48.60	0.3
HIN	1.81	109	iPc	04	47.13	-1.2
INE	1.82	239	iPd	04	49.29	0.7
INW	1.84	240	iPd	04	49.76	0.9
HUR	1.96	4	eP	04	52.44	2.1
KLU	2.00	75	iPc	04	51.48	0.4
			eS	05	16.81	
CVA	2.12	101	iPc	04	51.47	-1.1
OPT	2.14	231	ePd	04	57.48	4.6X
SGAM	2.39	101	iPc	04	54.97	-1.5
AUE	2.39	227	iPd	04	57.18	0.7
TZL	2.40	63	ePc	04	57.53	1.0
AUL	2.40	228	iPd	04	57.49	0.9
MID	2.42	130	ePc	04	54.90	-1.9X
AUI	2.43	227	iPd	04	57.70	0.7
TRF	2.43	356	eP	04	58.74	1.5
RND	2.44	12	eP	05	00.33	3.1X
PDB	2.45	241	iPd	04	57.58	0.4
SDG	2.58	52	ePc	04	59.99	0.9
RAGM	2.67	102	iPc	04	58.62	-1.9X
SYI	2.72	208	iPd	05	01.22	0.1
MCK	2.75	9	eP	05	03.48	1.8
SVW	2.76	274	iPd	05	02.34	0.6
CDD	2.81	223	iPd	05	02.72	0.3
MCNL	2.87	232	iPd	05	03.25	-0.1
PAX	2.87	45	iPc	05	04.48	1.0
GLB	3.00	79	eP	05	04.97	-0.2
THY	3.10	38	eP	05	09.02	2.4
TTA	3.44	306	ePc	05	12.25	0.8
TGL	3.49	91	iPc	05	10.79	-1.4
KDC	3.54	203	iPd	05	11.10	-1.7X
WRH	3.56	13	eP	05	15.13	2.1
NEA	3.58	6	eP	05	14.99	1.6
SNH	3.61	101	eP	05	11.65	-2.2X
HDA	3.66	21	eP	05	16.43	2.0
BALM	3.70	87	iPc	05	14.10	-1.1
CCB	3.76	14	eP	05	17.42	1.6
CYK	3.81	101	eP	05	14.20	-2.3X
TMW	3.99	52	P	05	19.50	0.4
FBA	4.01	13	eP	05	20.19	0.9
MDM	4.02	11	eP	05	21.20	1.6
MLY	4.03	355	ePc	05	21.98	2.2
YAH	4.09	96	iPc	05	18.78	-2.0X
GLM	4.14	15	eP	05	23.07	1.8
CTGM	4.20	87	P	05	21.10	-1.1
YKU	5.30	102	eP	05	37.70	0.2
IMA	5.32	343	ePc	05	38.08	0.1
FYU	5.94	19	eP	05	47.14	0.7
SDN	7.97	229	ePc	06	12.00	-2.7X
SIT	8.52	111	eP	06	17.44	-4.9X

```
INK    10.11   37 ePc    06 45.50    1.4
       1.0s     64.00nm              5.7mb X
ILT    14.06  311 iPd    07 37.00    0.3
       1.2s     21.00nm              4.7mb
     N 12s       1.00um
                   eS    10 16.00
YKA    16.66   70 eP     08 08.60   -1.5
       1.0s     25 40nm              4.3mb
ADK    17.26  250 P      08 17.20   -0.4
       1.1s    134.38nm              5.0mb
MBC    18.48   23 eP     08 32.00   -0.5
       1.0s     23.00nm              4.3mb
PGC    19.49  117 eP     08 44.00   -0.2
       1.2s     64.00nm              4.8mb
MCW    19.73  117 P      08 47.82    0.9
STW    19.78  119 P      08 47.81    0.5
JCW    20.50  116 P      08 55.38    0.6
GMW    20.62  119 P      08 56.40    0.3
RMW    21.11  117 eP     09 01.81    0.6
BMW    21.28  121 P      09 03.00    0.2
LON    21.66  119 P      09 08.12    1.5
WTV    21.74  114 P      09 08.15    0.7
KMOR   21.85  123 P      09 10.95    2.4X
SHW    21.92  120 (P)    09 09.62    0.3
SAW    21.98  113 P      09 09.87    0.0
EBG    22.07  116 P      09 14.61    3.9X
DPW    22.40  112 P      09 15.64    1.7
NEW    22.60  109 P      09 17.80    1.9
       1.1s     87.63nm              5.1mb
SSOR   22.90  122 P      09 21.47    2.5X
VGB    23.07  119 P      09 22.60    2.0
CROR   23.41  120 P      09 25.72    1.8
JBO    23.52  118 P      09 29.37    4.5X
DBO    24.03  126 P      09 32.41    2.5X
FHC    25.73  130 eP     09 44.70   -1.3
       1.1s     97.11nm              5.2mb
KMPM   26.02  131 eP     09 49.77    1.1
LBFM   26.06  126 P      09 50.20    0.9
LGPM   26.07  128 P      09 50.30    1.0
LRM    26.56  108 eP     09 54.30    0.5
FCC    27.39   70 eP     10 08.00    7 0X
ORV    27.76  128 P      10 04.10   -0.4
MGD    28.28  295 eP     10 08.00   -0 9
     Z 15s       1 10um              4.6MszX
     E 15s       1 00um
                   e     11 18.00
                   eS    14 50.00
JEGM   29.18  131 P      10 18.30    1 0
CMB    29.51  128 P      10 21.00    0.7
       1.3s     12.02nm              4.4mb
HVU    29.55  114 P      10 21.40    0.6
ARN    29.67  130 P      10 22.10    0.3
COE    29.70  130 eP     10 21.61   -0.4
                   e     10 35.26
BW06   30.22  109 P      10 27.00    0.1
       1.3s     22.26nm              4.7mb
MEMM   30.39  126 eP     10 29.58    1.6
BONR   30.39  125 eP     10 29.22    0 8
DUG    30.82  115 P      10 32.10    0 1
       0.9s      9.10nm              4.5mb
DAU    31.33  113 eP     10 36.88    0.2
                 ePcP    13 28.48
ULM    31.45   85 eP     10 41.50    4.2X
                   pP    10 55.00   53km
TIK    31.56  323 iPd    10 36.00   -2.0
       1.0s     27.00nm              5.0mb
     Z 18s       0.50um              4.2Msz
                   i     13 28.00
                   eS    15 39.00
RSSD   31.80  101 P      10 40.80    0 2
       0.6s      9.60nm              4.8mb
                   pP    10 54.60   55km
EMUT   32.01  113 P      10 42.90    0.3
BCH    32.13  130 P      10 44.10    0.7
                   pP    10 57.30   52km
ISA    32.32  127 P      10 45.50    0.5
       0.8s     11.03nm              4.7mb
                   pP    10 59.00   53km
MSU    32.48  117 P      10 47.40    0.7
                   pP    11 00.30   50km
ARUT   32.54  119 P      10 47.90    0 8
SRU    32.72  114 P      10 49.20    0.6
                   pP    11 01.80   48km
ABL    32.75  129 eP     10 49.50    0.5
                 epP     11 03.21   54km
GSC    33.29  125 P      10 54.60    1.1
                   pP    11 07.70   51km

PV09   33.84  113 P      10 59.00    0.5
SSK    33.90  128 eP     10 59.35    0.4
PV10   33.98  113 P      11 00.30    0.6
PV08   34.00  112 P      10 59.80   -0.1
                  pP     11 12.60   49km
PEC    34.39  127 P      11 03 30    0.4
       1.4s     23.54nm              4 9mb
GOL    34.59  107 P      11 05.10    0.2
       1.0s      8.67nm              4.6mb
                  pP     11 17.90   49km
GLD    34.62  107 eP     11 05.89    0.8
       0.9s      9.92nm              4.7mb
                 epP     11 19.15   51km
PLM    34.98  127 eP     11 08.75    0.6
FRB    35.44   49 eP     11 11.50    0.0
       1.0s     13.00nm              4.8mb
YAK    36.02  308 iPd    11 15.00   -1.5
       0.9s    204.00nm              6.1mb
     Z 16s       1.20um              4.8MszX
     N 17s       1.00um
     E 16s       0.80um
                 ePPP    12 43.00
                   eS    16 40.00
                   e     21 24.00
GLA    36.04  125 P      11 17.70    0.7
                  pP     11 31.40   52km
TUC    38.35  120 P      11 37.10    0.6
       1.3s     21.18nm              4.9mb
                  pP     11 50.90   53km
JAQ    38.58   66 eP     11 37.50   -0.6
                  pP     11 51.00   51km
KUR    38.86  275 (P)    11 30.00  -10.5X
       1.0s    190.00nm
DAG    39.09   16 iPc    11 42.00    0.0
       0.9s     41.18nm              5.3mb
ACO    39.91  104 iPc    11 49.20   -0.1
YSS    40.06  281 iPd    11 49.00   -1.3
       1.0s     30.00nm              5.1mb
     Z 16s       0.50um              4.5MszX
     N 16s       0.40um
     E 16s       0.20um
                 epP     12 05.00   64kmX
                   eS    17 52.00
                 (SSS)   21 21.00
OCO    41.66  103 iPd    12 06.60    3.0
MEO    41.74  105 iPd    12 04.50    0.2
KUSJ   41.97  276 eP     12 03.60   -2.5
EEO    42.02   77 eP     12 23.50   17.0X
ASAJ   42.21  278 eP     12 06.60   -1.4
FVM    43.08   94 P      12 14.40   -0.8
       1.1s     32.96nm              5.0mb
                  pP     12 28.30   53km
HOOJ   43.20  276 eP     12 14.60   -1.5
NRI    43.47  334 iPd    12 17.00   -0.9
       1.0s     26.00nm              4.9mb
                   e     12 25.00
                   i     14 05.00
                   e     14 31.00
ACTO   43.79   80 P      12 20.15   -0.7
LTX    43.99  115 P      12 21.90   -0.9
ELC    44.21   94 P      12 23.30   -1.1
                  pP     12 37.30   53km
MRRJ   44.24  278 eP     12 23.20   -1.3
TYNO   44.27   81 P      12 25.15    0.4
MIAR   44.31  100 P      12 24.30   -0.9
       0.8s     11.04nm              4.7mb
                  pP     12 37 40   49km
WLVO   44.35   79 P      12 25.60    0.2
GAC    44.40   75 eP     12 26.50    0.7
                  pP     12 40.00   51km
BOD    44.64  311 iPd    12 26.80   -0 8
       0.9s     29.00nm              5.1mb
OFUJ   46.53  274 P      12 42.00   -0.7
CBM    46.88   68 P      12 44.90   -0.6
       0.7s      6.30nm              4.7mb
                  pP     12 58.90   53km
BNH    47.21   73 eP     12 47.59   -0.5
                 epP     13 01.03   50km
GBTN   47.94   91 P      12 53.30   -0.6
                  pP     13 06.90   51km
TKL    48.16   90 eP     12 54.84   -0.8
                 epP     13 07.78   48km
NAV    48.29   86 P      12 56.00   -0.7
GPD    48.44   78 P      12 57 30   -0.5
                  pP     13 09.90   46km
MYNC   48.46   91 P      12 57.30   -0.6
       0.9s     22.00nm              5.2mb

                  pP     13 11.80   55km
AKU    48.65   24 iP     13 00.80    1.9
       1.0s     44.00nm              5.4mb
PAL    48.72   78 P      12 59.00   -0.8
                  pP     13 12.40   50km
EMM    48.83   70 eP     12 59.41   -1.2
                 epP     13 12.65   49km
LMN    49.19   67 ePd    13 06.90    3.4X
                  pP     13 19.50   46km
CIT    49.25  306 eP     13 04.00    0.1
NIIJ   49.27  275 P      13 03.10   -1.0
KEV    49.49    1 iP     13 04.20   -1.1
       0.8s     32.30nm              5.4mb
PRM    50.11   90 P      13 09.50   -1.1
GOGA   50.12   92 P      13 09.90   -0.8
       1.0s      9.62nm              4.8mb
                  pP     13 22.80   47km
MAT    50.21  275 eP     13 10.00   -1.3
       1.0s     38.00nm              5.4mb
                  eS     20 17.00
CHJJ   50.22  274 P      13 10.60   -0.8
CEH    50.25   86 P      13 10.60   -1.0
       0.7s      6.65nm              4.8mb
JSC    50.49   89 P      13 12.60   -0.9
                  pP     13 26.60   52km
IIDJ   51.20  275 P      13 18.00   -0.9
SGS    51.74   89 P      13 22.40   -0.5
                  pP     13 36.80   54km
SDF    51.82    2 iP     13 22.30   -0.9
H8F    52.01   89 P      13 24.90   -0.1
                  pP     13 39.10   53km
TSRJ   52.09  276 P      13 24.20   -1.4
MOY    54.23  314 ePd    13 41.30    0.2
       1.5s     48.00nm              5.3mb
ZAK    54.47  311 iPd    13 42.00   -1.0
       1.2s     16.00nm              4.9mb
     Z 20s       0.65um              4.7Msz
     N 22s       0.24um
     E 16s       0.58um
                   e     21 19.00
SHNJ   55.58  279 P      13 50.20   -1.0
KUMJ   57.01  278 eP     14 01.00   -0.5
KAF    57.15    2 iP     14 00.60   -1.5
       0.7s     11.70nm              5.0mb
NB2    57.40   11 P      14 02.40   -1.5
       0.9s     30.10nm              5.4mb
BJI    57.69  295 eP     14 04.50   -1.7
       1.0s     22.00nm              5.2mb
     Z 20s       0.60um              4.7Msz
HFS    58.51   10 eP     14 09.70   -1.9
       1.3s    120.60nm              5.9mb
     Z 21s      85.00um              6.8MszX
                  LR     33 29.00
NUR    58.72    3 iP     14 11.60   -1.5
       0.6s     29.60nm              5.6mb
UPP    59.06    7 iP     14 13.70   -1.7
PUL    59.53  360 (P)    14 16.00   -2.7
SVE    60.07  341 iPd    14 21.00   -1.4
     Z 21s       0.50um              4.6Msz
     N 21s       0.50um
                   e     15 07.80
ARU    60.77  342 ePd    14 25.50   -1.7
       1.5s     80.00nm              5.6mb
     Z 20s       0.50um              4.7Msz
     N 20s       0.50um
EKA    61.05   21 P      14 28.00   -1.1
       1.0s     21.50nm              5.2mb
MOS    63.42  355 eP     14 44.00   -0.9
                   e     15 05.00
                   e     15 16.00
OBN    64.10  356 iPd    14 48.10   -1.2
       1.4s    120.00nm              5.7mb
                   i     15 03.00
ENN    66.88   16 iPc    15 07.00   -0.2
       1.0s     42.00nm              5.4mb
                   e     15 20.50
CLL    67.18   12 iPd    15 08.10   -1.0
       1.4s     45.00nm              5.3mb
                   i     15 23.30
DOU    67.35   17 Pc     15 09.90   -0.3
MOX    67.70   13 ePd    15 12.00   -0.4
       1.3s     77.00nm              5.6mb
                   e     15 24.30
                   e     15 34.80
BRG    67.70   11 iPd    15 10.80   -1.6
       1.0s     40.00nm              5.4mb
                   i     15 27.00
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18d 08h

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FLN    67.82  21 eP     15 11.23  -2.0
       1.2s    47.00nm          5.4mb
     Z 20s      0.20um          4.3Msz
KSP    67.93   9 iPd    15 13.00  -0.9
       1.0s    43.00nm          5.4mb
                 e      15 25.60
WLF    67.99  16 iPc    15 14.61   0.4
HOF    68.05  12 eP     15 14.00  -0.6
LDF    68.05  21 eP     15 13.60  -1.0
       1.1s    39.55nm          5.3mb
GRR    68.12  22 eP     15 14.30  -0.7
       1.2s    39.00nm          5.3mb
LPF    68.43  22 eP     15 16.50  -0.4
       1 3s    77.25nm          5.5mb
GRF    68.59  13 iPd    15 17.90  -0.1
       1 1s    49.00nm          5.4mb
     Z 28s      0.10um          3.9MszX
                e(pP)   15 33.40  56km
                e(sP)   15 41.00
PRU    68 63  11 P      15 17.80  -0.4
       1.4s    44.70nm          5.2mb
TLG    69.17 325 iPd    15 20.70  -1.0
       1.2s    23.00nm          5.0mb
WET    69.31  12 iPc    15 22.90   0.5
       1.5s    76.00nm          5.4mb
CDF    69.37  16 eP     15 22.50  -0.4
       1.0s    25.80nm          5.1mb
KHC    69.39  11 P      15 22.80  -0.1
       1.0s    19.60nm          5.0mb
                 e      15 36.00
HAU    69.64  17 eP     15 23.90  -0.5
       1.1s    44.20nm          5.3mb
     Z 22s      0.13um          4.1Msz
GEC2   69 69  11 P      15 24.40  -0.4
       0.8s    10.43nm          4.8mb
SPC    69.85   7 iPd    15 25.80  -0.1
       1.0s    44.40nm          5.3mb
BSF    69.88  16 eP     15 25.40  -0.6
       1.0s    31.60nm          5.2mb
MFF    69.97  22 eP     15 26.00  -0.4
       1.4s    87.15nm          5.5mb
LOR    69.99  19 eP     15 26.00  -0.6
       1.2s    51.15nm          5.3mb
     Z 20s      0.15um          4.2Msz
FUR    70.11  13 eP     15 27.20  -0.1
SSF    70.14  19 eP     15 27.00  -0.5
       1.1s    55.20nm          5.4mb
LBF    70.29  19 eP     15 27.60  -0.8
       1.0s    21.60nm          5.0mb
FRU    70.33 327 eP     15 28.00  -0.7
       1.6s    80.00nm          5.4mb
                 e      15 41.80
AVF    70.38  19 eP     15 28.20  -0.7
       1.1s    34.70nm          5.2mb
UZH    70.51   5 iPd    15 30.00   0.3
       1.2s    60.00nm          5.4mb
                 i      15 45.80
BGF    70.53  20 eP     15 29.10  -0.7
       0.7s    14.00nm          5.0mb
SMF    70.60  19 eP     15 29.40  -0.9
       1.2s    45.20nm          5.3mb
LSF    70.60  21 eP     15 29.50  -0.8
       1.1s    43.95nm          5.3mb
ZST    70.63   9 iPd    15 30.20  -0.2
       0.8s    25.20nm          5.2mb
TCF    70.68  20 eP     15 30.10  -0.7
       1.3s    26.35nm          5.0mb
BHG    70.72  12 iPd    15 30.90  -0.1
       1.0s    39.00nm          5.3mb
MAF    70.81  20 eP     15 30.80  -0.7
       1.1s    15.65nm          4.9mb
MOTA   70.90  14 iPd    15 31.30  -1.0
       1.2s    50.50nm          5.3mb
                 i      15 43.90
WATA   70.96  13 iPc    15 32.00  -0.6
WTTA   71.04  13 iPd    15 33.10   0.0
       1.1s    89.40nm          5.6mb
SRO    71.10   8 iP     15 34.50   1.3
KBA    71.40  12 iPd    15 35.30   0.0
       0.9s    62.00nm          5.5mb
                 i      15 49.60
RJF    71.52  21 eP     15 34.90  -0.9
       1.2s    29.75nm          5.1mb
LFF    71.74  21 eP     15 36.80  -0.3
       0.6s    19.30nm          5.2mb
FVI    71.82  12 P      15 37.30  -0.2
CAF    71.98  21 eP     15 37.90  -0.7
       1.2s    33.05nm          5.1mb
RBL    72.05  12 P      15 38.20  -0.9
LPO    72.06  21 eP     15 38.60  -0.5
       1.1s    32.00nm          5.2mb
LPL    72.13  17 eP     15 40.10   0.3
       1.1s    32.50nm          5.2mb
LPG    72.16  17 eP     15 40.50   0.5
       1.3s    49.10nm          5.3mb
LSD    72.25  17 P      15 40.91   0.4
UZD    72.33   8 e(P)   15 40.00  -0.6
VOY    72.49  12 iPd    15 40.50  -1.2
RSP    72.57  17 P      15 42.38   0.2
RRL    72.73  17 P      15 43.93   0.7
TRI    72.80  12 eP     15 42.20  -1.1
PTJ    72.81  10 eP     15 43.40  -0.2
CEY    72.83  11 e(P)   15 42.20  -1.4
VBY    73.14  11 eP     15 44.50  -0.9
PZZ    73.18  17 P      15 45.99   0.2
RIY    73.22  11 eP     15 44.50  -1.3
PCP    73.34  16 P      15 45.54  -1.1
VRI    73.42   2 eP     15 47.00   0.0
CVO    73.46   3 eP     15 48.50   1.3
ROB    73.49  16 P      15 46.40  -1.1
ENR    73.50  17 P      15 46.18  -1.4
EPF    73.51  22 eP     15 46.60  -1.0
       1.0s    16.00nm          4.9mb
MLR    73.78   3 eP     15 50.00   0.8
SBF    73.85  17 eP     15 49.30  -0.3
       0.9s    42.25nm          5.4mb
FRF    74.04  17 eP     15 50.30  -0.3
       0.7s    11.35nm          4.9mb
LRG    74.10  18 eP     15 51.70   0.8
       0.8s    20.40nm          5.1mb
EGRA   74.19  23 eP     15 52.00   0.5
LMR    74.24  18 eP     15 51.70   0.0
       1.2s    34.50nm          5.2mb
SFI    74.36  14 P      15 53.50   1.1
PGD    74.39  14 Pd     15 53.30   0.4
RSM    74.42  13 P      15 53.70   0.9
CRE    74.66  14 P      15 54.10  -0.2
PYA    74.76 350 iP     15 55.00   0.2
                 i      16 09.00
KIV    74.86 351 iPd    15 55.10  -0.4
       1.1s    59.00nm          5.4mb
     Z 18s      0.10um          4.2Msz
                 e      18 42.80
                 eS     25 29.50
ARV    74.90  13 P      15 55.90   0.3
GUD    74.91  26 eP     15 56.00   0.2
EPLA   75.04  28 eP     15 57.00   0.6
ASS    75.29  13 P      15 58.10   0.2
PGF    75.36  16 eP     15 57.90  -0.5
       1.0s    34.40nm          5.2mb
SOC    75.45 353 eP     15 58.00  -0.7
TPT    75.78 178 iPd    15 59.90  -0.8
       1.1s   140.70nm          5.8mb
PMO    75.79 178 iPd    16 00.10  -0.7
       1.2s   142.20nm          5.8mb
RUV    75.99 177 iPd    16 01.00  -0.9
       1.2s   202.30nm          5.9mb
VAH    76.03 178 iPd    16 01.20  -1.0
       1.2s   223.70nm          6.0mb
KMI    76.26 297 eP     16 02.50  -1.4
       1.2s    50.00nm          5.3mb
                 pP     16 07.50  16kmX
ECHE   76.58  24 eP     16 05.50   0.3
TOV    76.73  94 eP     16 07.10   0.7
SDV    77.10  95 eP     16 08.20  -0.4
SKO    77.11   7 iP     16 08.00   0.0
       1.0s    56.00nm          5.5mb
EVIA   77.19  26 eP     16 09.30   0.7
EVAL   77.24  29 eP     16 09.50   0.7
EHOR   77.37  28 eP     16 10.00   0.5
VAY    77.82   6 iP     16 12.00   0.1
ELUO   77.84  27 eP     16 13.00   0.8
OHR    77.93   7 iP     16 12.20  -0.4
       1.1s    64.00nm          5.6mb
SGO    78.05  11 P      16 12.90  -0.3
ECOG   78.26  27 eP     16 15.10   0.5
PPN    78.29 179 iPd    16 13.90  -0.7
       1.0s    90.40nm          5.7mb
MGR    78.49  11 P      16 14.60  -1.0
EJIF   78.63  29 eP     16 17.00   0.6
ASH    78.69 338 eP     16 17 00   0.2
       1.0s   170.00nm          6.0mb
GRS    78.94 347 eP     16 18.00  -0.3
       1.3s    50.00nm          5.3mb
MAIO   80.07 336 iPd    16 24.60   0.2
       0.9s    14.07nm          4.9mb
GUN    80 52 312 P      16 26.80  -0.4
KKN    80.84 313 P      16 28.50  -0.3
       1.0s    62.00nm          5.5mb
GKN    80.88 313 P      16 28.60  -0.3
DMN    81.07 313 P      16 30.00   0.0
       1.0s    85.00nm          5.6mb
AVE    81.16  31 eP     16 30.50   0.5
NDI    82.75 319 iPd    16 38.50   0.1
CHTO   83.46 297 ePd    16 40.70  -1.5
       1.0s    20.50nm          5.1mb
GBA    96.68 314 P      17 44.00  -0.7
WRA   100.55 248 Pdiff  18 00.80  -1.3
       0.7s     0.70nm          4.4mb
WIN   140.52  19 ePKP   23 38.00  -6.1X
       1.0s    40.00nm
BFT   144.67   0 ePKP   23 49.50  -1.8X
       0.6s    19.00nm
SLR   144.70   3 iPKPd  23 49.20  -2.0X
       0.8s    60.00nm
KSR   144.78   5 iPKPd  23 49.50  -1.9X
       1.0s    60.00nm
PRY   145.86   4 iPKPc  23 52.80  -0.4
       1.4s    70.00nm
CSY   146.25 226 ePKP   23 53.60   1.3
       0.5s    21.90nm
SEK   147.25   4 iPKPd  23 58.00   2.6X
       1.0s   150.00nm
POF   147.64  17 iPKPc  23 59.00   3.3X
       1.0s    50.00nm
BLF   147.97   6 ePKP   23 56.00  -0.5
       0.7s    55.00nm
FRS   148.56   8 ePKP   23 55.50  -1.7X
       1.2s   120.00nm
SUR   150.71  16 iPKPd  24 04.90   4.2X
       0.6s    50.00nm
SPA   150.87 180 iPKPd  24 04.50   4.8X
       1.0s   105.00nm
CER   151.45  19 ePKP   24 01.00  -0.5
       1.0s   140.00nm
GRM   152.18   6 iPKPd  24 09.00   6.4X
       0.7s    37.00nm
     S.D. = 1.0  on 311 of 342 obs.
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%  MAY  18, 1993  08h 07m 38.00± 0.80s
   32.170 S ± 8.0km   68.227 W ± 7.3km
   DEPTH =  10.0km  (geophysicist)
 MENDOZA PROVINCE, ARGENTINA      (139)

RTCV    0.41 319 iPd   07 45.50  -0.8
RTBS    1.16 296 e(P)  08 00.00   0.4
MRA     2.15  97 e(P)  08 13.40  -0.9
                 S     08 42.30
RTRS    2.26 332 ePc   08 17.30   1.4X
                 S     08 46.50
RTPR    2.37  39 e(P)c 08 17.80   0.3
                 S     08 46.00
RFA     2.60 184 ePd   08 21.20   0.3
                 i     08 26.50
                 S     09 02.30
CYA     4.27  30 ePd   08 45.30   0.8
     S.D. = 0.9  on   6 of   7 obs.
-------------------------------------
   MAY  18, 1993  08h 11m 51.49± 0.84s
   40.441 N ± 6.8km   21.842 E ± 7.8km
   DEPTH =  10.0km  (geophysicist)
 GREECE                           (364)

FNA     0.49 314 iPg   12 01.66   0.1
                 eSg   12 08.90
LIT     0.60 124 ePg   12 03.46  -0.2
GRG     0.67  39 iPg   12 04.30  -0.5
OHR     1.04 311 ePn   12 35.30  24.2X
VAY     1.04  32 ePn   12 04.20  -6.9X
KNT     1.08  48 ePg   12 11.94   0.2
                 iSg   12 29.22
AGG     1.47 165 ePb   12 17.70  -0.3
PAIG    1.50 109 ePb   12 19.05   0.7
                 iSb   12 41.06
     S.D. = 0.5  on   6 of  8 obs.
-------------------------------------
&  MAY  18, 1993  08h 19m 24.89s
   37.092 N          117.822 W
   DEPTH =   5.6km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      <PAS-P>. MD 3.8 (GM), 3.8 (PAS).
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ML 3.7 (BRK), 3.6 (GS).

CWCR	0.56	316	P	19	33.86	-2.2
BHPR	0.57	291	P	19	35.97	-0.4
MRCM	0.79	317	iPc	19	40.13	-0.8
CLKR	0.94	302	P	19	42.70	-0.8
BONR	0.94	336	iPc	19	43.02	-0.5
WLHM	1.02	203	P	19	43.95	-0.8
MCSM	1.03	303	P	19	44.40	-0.5
MEMM	1.06	303	iPc	19	44.90	-0.3
MMPM	1.09	299	iPc	19	45.22	-0.8
TNP	1.10	26	ePc	19	45.99	-0.1
VPEM	1.14	180	P	19	46.38	-0.4
WCHM	1.22	190	P	19	47.82	-0.4
NMC	1.25	183	P	19	48.58	0.0
TPNV	1.27	96	ePnd	19	49.07	0.1
			eS	20	08.43	
WASM	1.48	204	P	19	52.41	0.1
WSHM	1.48	170	P	19	51.99	-0.2
FRI	1.51	267	iP	19	52.48	-0.1
			eS	20	11.42	
ISA	1.52	200	eP	19	52.14	-0.6
WOFM	1.71	205	P	19	56.15	0.6
WJPM	1.76	198	P	19	57.45	1.2
GSC	1 97	155	ePn	19	58.51	-0.7
KVN	1.97	354	eP	19	58.92	-0.4
PHBM	2.00	246	P	20	01.51	1.9
PKEM	2.11	241	eP	20	00.35	-0.9
PARM	2.19	248	P	20	04.17	1.7
MSTM	2.21	292	P	20	04.88	2.2
CMB	2.24	296	ePc	20	02.72	-0.5
			eS	20	31.85	
MCUM	2.39	292	P	20	05.13	-0.1
PRCM	2.40	250	P	20	06.57	1.1
CRGC	2.40	220	P	20	08.50	2.9
PTRM	2.40	234	P	20	07.30	1.8
BRMM	2.42	265	P	20	07.88	2.2
PHAM	2.43	240	ePn	20	06.42	0.6
MRFM	2.43	299	P	20	08.67	2.8
PRI	2.48	248	eP	20	07.62	1.0
ABL	2.51	207	ePn	20	07.60	0.5
LLA	2.55	260	eP	20	08.70	1.2
BCH	2.64	225	ePn	20	08.63	-0.3
			ePg	20	10.87	
BHRM	2.78	264	P	20	12.85	2.0
SCCM	2.87	222	P	20	15.43	3 3
SSK	2 88	178	eP	20	12.71	0.3
SAO	2.92	265	ePn	20	11.40	-1.4
			eS	20	59.34	
PRS	2.95	256	eP	20	11.96	-1.3
ARN	2.97	276	ePn	20	13.55	0.0
			eS	20	59.85	
MHC	3.06	276	ePc	20	16.43	1.6
			eS	21	00.76	
CBC	3.08	268	P	20	16.48	1.5
COE	3 08	274	ePn	20	15.63	0.6
			eS	21	01.96	
PEC	3.24	170	eP	20	16.75	-0.6
HMR	3.33	290	ePg	20	27.81	9.2
GCC	3.34	270	eP	20	18.96	0.2
STAN	3.49	276	ePc	20	21.85	1.0
ARUT	3.56	77	ePn	20	20.85	-1.1
			ePg	20	32.14	
BKS	3.60	284	ePc	20	23.78	1.4
			eS	21	12.93	
ORV	3.80	311	eP	20	24.17	-1.1
PLM	3.81	168	eP	20	24.40	-1.3
NTYM	4.05	290	eP	20	30.35	1.6
MIN	4.39	319	eP	20	33.81	0.0
LMEM	4.52	321	(P)	20	49.78	14.2
MSU	4.69	71	ePn	20	37.36	-0.9
			ePg	20	52.19	
			eS	21	52.50	
GLA	4.72	148	ePn	20	38.72	0.3
LBFM	5.29	325	ePn	20	46.68	0.0
HVU	6.10	38	ePn	20	59.59	1.7
			ePg	21	19.93	
SRU	6.10	68	ePn	20	58.32	0.3
DAU	6.11	55	ePn	20	58.36	0.1
EMUT	6.13	62	ePn	20	59.50	1.0
			ePg	21	20.33	
			eS	22	38.66	
PV09	7.02	76	ePg	21	34.86	23.7
PV10	7.08	77	ePn	21	12.18	0.3
PV08	7.41	76	ePn	21	17.22	0.6
			ePg	21	42.05	
TUC	7.50	127	eP	21	16.81	-0.8

			eSg	23	24.04	
ULM	20.52	43	eP	24	08.00	1.6

70 obs. associoted

? MAY 18, 1993 08h 40m 41.23± 1.05s
40.814 N ± 7.9km 23.102 E ± 8.1km
DEPTH = 10.0km (geophysicist)
GREECE (364)

THE	0.21	210	iPg	40	45.82	0.1
			eSg	40	48.52	
KNT	0.38	336	iPg	40	49.17	0.1
			eSg	40	54.69	
SRS	0.48	51	ePg	40	50.92	-0.1
			eSg	40	57.44	
GRG	0.55	285	ePg	40	52.32	0.0
			eSg	41	00.52	

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

& MAY 18, 1993 09h 04m 43.06s
37.001 N 117.748 W
DEPTH = 0.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. MD 3.1 (GM).

BHPR	0.66	297	P	04	56.27	0.0
CWCR	0.66	318	P	04	56.29	0.0
BCKR	0.85	325	P	04	59.90	-0.2
MRCM	0.90	318	eP	05	00.51	-0.6
			eS	05	13.14	
WLHM	0.96	208	P	05	01.87	-0.6
ORC	0.96	311	P	05	02.26	-0.2
CLKR	1.04	305	P	05	03.37	-0.5
BONR	1.05	335	ePc	05	03.48	-0.5
VPEM	1 05	183	P	05	03.38	-0.5
MCSM	1.13	306	P	05	05.17	-0.2
WCHM	1.15	193	P	05	05.48	-0.2
TNP	1 16	21	ePd	05	05.28	-0.5
			eS	05	20.94	
MEMM	1.16	305	(P)	05	05.53	-0.1
			eS	05	21.92	
MMPM	1 19	301	eP	05	05.71	-0.7
TPNV	1.20	92	eP	05	06.39	-0.1
			eS	05	25.57	
WSHM	1.38	171	P	05	10.10	0.6
ISA	1.46	204	ePd	05	10.40	-0.3
WBSM	1.49	192	P	05	11.92	0.5
GSC	1.86	155	ePn	05	16.29	-0.3
			eS	05	44.68	
PHBM	2.02	249	P	05	21.14	2.3
KVN	2.07	352	eP	05	19.51	-0.1
PARM	2.22	251	P	05	24.06	2.4
CMB	2.34	297	ePn	05	21.17	-2.3
			ePg	05	23.64	
			eS	05	55.59	
MARC	2.38	213	P	05	26.71	2.7
PHAM	2.43	242	eP	05	25.14	0.3
ABL	2.46	210	ePn	05	24.24	-1.1
MCUM	2.48	294	P	05	28.15	2.7
BCH	2 62	227	ePn	05	26.02	-1.5
LRC	2.76	255	P	05	30.37	1.0
SSK	2.78	179	(Pn)	05	29.94	0.0
SAO	2.97	267	ePn	05	32.35	-0.1
ARN	3.04	278	(Pn)	05	31.81	-1.6
PEC	3.14	171	ePn	05	33.02	-1.8
ARUT	3.52	76	ePn	05	39.57	-0.8
			ePg	05	49.81	
PLM	3.71	168	ePn	05	42.65	-0.4
ORV	3.90	312	(Pn)	05	45.35	-0.3
GLA	4.61	148	(Pn)	05	54.15	-1.5
			ePg	06	08.89	
LBFM	5.40	325	(Pn)	06	04.46	-2.6
			ePg	06	25.45	
SRU	6.08	68	(Pn)	06	15.89	-0.7
DAU	6.11	54	(Pn)	06	18.11	0.9
			ePg	06	37.42	
HVU	6.13	37	(Pn)	06	16.89	-0.4
			ePg	06	38.74	
PV09	6 99	75	ePg	06	56 83	27.3
PV10	7.04	76	ePg	06	57.16	26.9

43 obs. associoted

? MAY 18, 1993 09h 20m 45.29± 2.48s
47.879 N ±34 9km 148.622 E ±41.1km
DEPTH = 348.1 ± 36.2 km
3.8mb (3 obs.)
NORTHWEST OF KURIL ISLANDS (220)

KUSJ	5.52	211	iP+	22	08.90	-2.1
			eS	23	12.40	
ASAJ	5.61	230	eP	22	14.80	2.7
HOOJ	6.66	216	eP	22	23.10	-1.1
			eS	23	36.20	
MRRJ	7.63	227	eP	22	35.70	0.1
			eS	23	59.70	
AOMJ	9.41	222	P	22	55.80	-1.1
			S	24	34.10	
OFUJ	10.14	212	P	23	06.80	1.1
			S	24	53.10	
MAT	13.69	218	eP	23	49.00	0.8
YKA	51.82	36	eP	29	21.20	1.1
	0.6s		0.40nm			2.9mb
NB2	66.12	339	P	30	56.90	-0.6
	0.6s		1.60nm			3.9mb
HFS	66.28	337	eP	30	57.50	-0.9
	0.4s		1.70nm			4.1mb
Z	22s		49.00um			6.7Msz
			LR	57	12.00	

S.D. = 1.7 on 10 of 10 obs.

MAY 18, 1993 09h 33m 13.31± 0.29s
14.393 N ± 5.1km 40.221 E ± 6.4km
DEPTH = 10.0km (geophysicist)
4.6mb (11 obs.)
ETHIOPIA (558)
MD 5.0 (ARO).

HLD	3.52	142	ePd	34	08.67	-0.4
DAF	3.57	141	ePd	34	09.57	-0.3
KSU	3.59	143	ePd	34	09.73	-0.5
SGH	3.77	141	ePd	34	12.18	-0.6
ARO	3.83	138	ePd	34	13.05	-0.6
			S	35	14.90	
GBR	3.89	146	ePd	34	14.14	-0.4
ATA	4.12	135	ePd	34	17.28	-0.4
AAE	5.52	195	ePn	34	38.80	0.9
CSS	21.40	344	eP	38	04.00	0.5
BCAO	23.55	247	iPc	38	25.90	1.1
	1.1s		22.00nm			4.6mb
			ic	39	23.50	
TAB	24.19	12	eP	38	36.00	4.9X
MAIO	27.81	35	eP	39	07.00	2.2
QUE	29.20	53	eP	39	21.10	3.6X
OHR	31.53	331	eP	39	38.00	0.1
SKO	31.93	333	iP	39	40.60	-0.7
GBA	36.09	87	P	40	19.00	1.5
NDI	37.07	61	eP	40	28.00	2.4
PTJ	37.47	332	eP	40	22.30	-6.5X
VBY	37.50	331	e(P)	40	29.50	0.6
TRI	38.36	330	eP	40	36.70	0.5
SPC	38.38	339	eP	40	38.10	1.5
VOY	38.53	330	eP	40	38.20	0.4
ZST	38.75	335	eP	40	39.50	0.0
PGF	38.85	322	eP	40	40.80	0.3
GEC2	40.69	333	P	40	55.00	-0.6
	1.2s		9.68nm			4.4mb
			e	40	58.80	
OBN	40.72	357	eP	40	56.00	0.4
			e	41	05.00	
KHC	40.96	333	eP	40	57.60	-0.2
PRU	41.20	335	eP	40	59.50	-0.2
LPG	41.92	325	eP	41	06.50	0.5
LPL	41.94	325	eP	41	06.50	0.4
	1.5s		25.05nm			4.7mb
BRG	42.13	335	eP	41	07.00	-0.3
	1.0s		10.00nm			4.5mb
GRF	42.42	332	eP	41	08.60	-1.1
CLL	42.85	335	eP	41	13.00	-0.1
	1.3s		15.00nm			4.6mb
MOX	42.94	333	eP	41	13.70	-0.2
GKN	43.33	64	P	41	17.40	-0.2
DMN	43.69	65	P	41	20.00	-0.6
KKN	43.86	65	P	41	22.20	0.2
LBF	44.35	325	eP	41	25.10	-0.4
	1.2s		17.25nm			4.8mb
GUN	44.41	65	P	41	24.80	-1.8
	1.0s		50.00nm			5.3mb
LOR	44.58	325	eP	41	27.00	-0.3
	1.4s		27.90nm			5.0mb
SSF	44.66	324	eP	41	27.40	-0.5
LPO	44.76	320	eP	41	29.40	0.6
NUR	47.43	350	eP	41	48.70	-0.9
UPP	48.34	345	iP	41	56.10	-0.6
KAF	48.68	351	eP	41	58.90	-0.5
HFS	49.63	343	eP	42	03.70	-3.0

18d 09h

0.5s 0.70nm 3.9mb
NB2 51.08 342 P 42 16.40 -1.4
1.1s 15.40nm 4.8mb
BJI 70.19 52 eP 44 28.50 0.0
MBC 88.71 355 eP 46 08.00 0.1
WRA 98.58 108 P 46 56.30 2.2
0.8s 0.40nm 4.1mb
S.D. = 1.0 on 47 of 50 obs.

& MAY 18, 1993 09h 45m 24.39s
40.350 N 76.020 W
DEPTH = 5.0km (geophysicist)
PENNSYLVANIA (473)
<MACRO>. mbLg 2.1 (GS). Felt (IV) at West Lawn. Felt in the Reading area.

BWD 0.65 148 iPc 45 39.20 1.9
iS 45 47.79
NED 0.69 160 iPc 45 38.59 0.4
iS 45 47.70
BVD 0.70 145 iPc 45 39.29 0.9
iS 45 48.50
GPD 1.36 60 (P) 45 49.88 -0.1
eS 46 08.59
PAL 1.73 67 (P) 45 55.73 0.4
eS 46 19.58
5 obs. associated

& MAY 18, 1993 09h 58m 32.63s
38.952 N 123 203 W
DEPTH = 6.0km
NEAR COAST OF NORTHERN CALIF. (35)
<GM-P>. MD 2.9 (GM).

NTYM 0 70 143 ePd 58 46.59 -0.1
MMPM 1.63 334 (P) 59 02.11 0.2
FHC 1 94 342 eP 59 06.80 0 3
LGPM 1.98 8 eP 59 06.33 -0.8
LMEM 2.02 38 eP 59 07.59 -0.2
ARN 2 07 140 eP 59 05.87 -2.5
LBFM 2 60 22 eP 59 14.31 -1.7
7 obs. associated

& MAY 18, 1993 10h 11m 47.35s
36.107 N 117.697 W
DEPTH = 0.7km
CALIFORNIA-NEVADA BORDER REGION (40)
<PAS-P>. ML 2.8 (PAS), 2.8 (GS).

ISA 0.77 235 ePn 12 01.77 -1.0
eS 12 12.63
GSC 1.08 138 iPd 12 07.47 -1.2
eS 12 22.71
MRCM 1.69 338 (P) 12 18.57 0.2
ABL 1.77 225 ePn 12 19.76 0.2
MMPM 1.84 325 ePd 12 20.94 0.2
eS 12 45.31
MEMM 1.85 328 eP 12 21.15 0.7
eS 12 45.38
SSK 1.89 180 ePn 12 19.87 -1.4
BONR 1.91 345 eP 12 21.25 -0.4
eS 12 48.58
TNP 2.01 11 ePn 12 23.87 0.9
BCH 2.15 245 eP 12 24.58 -0.4
PHAM 2.21 264 eP 12 26.06 0.3
PEC 2.25 169 eP 12 25.22 -1.2
eS 12 59.29
PLM 2.83 166 ePn 12 33.19 -1.6
CMB 2.89 313 ePn 12 36.82 1.4
eS 13 16.33
KVN 2.96 354 (P) 12 40.25 3.7
ARN 3.32 293 (P) 12 40.84 -0.8
ARUT 3.80 63 ePn 12 48.83 0.3
GLA 3.86 141 ePn 12 46.34 -2.9
18 obs. associated

? MAY 18, 1993 10h 12m 59.47± 1.89s
12.452 N ±20.6km 89.514 W ±35.6km
DEPTH = 33.0km (normal)
4.2mb (2 obs.)
OFF COAST OF CENTRAL AMERICA (76)
Felt (II) at Son Salvodor, El Salvodor.

CUSS 1.51 344 iPd 13 26.50 2.0
TME 1.56 6 iPd 13 24.90 -0.4
YPE 1.67 354 iPd 13 27.60 0.6
LTX 21.34 324 eP 17 46.38 0.3
MIAR 22.30 351 eP 17 55.12 -0.5
0.7s 4.88nm 4.1mb
MEO 23.71 341 iPc 18 07.90 -1.4
SRU 32.43 329 (P) 19 28.97 0.0
YKA 53.10 346 eP 22 12.80 -2.9X
0.8s 2.90nm 4.3mb
INK 62.61 343 eP 23 22.00 -0.5
MBC 65.75 352 eP 23 40.50 -2.3
ANTO 105.37 42 ePKP 31 23.10 2.2
S.D. = 1.6 on 10 of 11 obs.

% MAY 18, 1993 10h 15m 07.62± 0.77s
40.828 N ± 6.6km 22.978 E ± 5.8km
DEPTH = 10.0km (geophysicist)
GREECE (364)

THE 0.20 183 ePg 15 11.86 -0.1
eSg 15 15.10
SOH 0.29 91 ePg 15 13.86 0.2
eSg 15 18.98
KNT 0.34 350 iPg 15 14.73 0.1
GRG 0.46 287 ePg 15 16.90 0.0
SRS 0.55 58 ePg 15 18.42 -0.3
eSg 15 27.30
S.D. = 0.3 on 5 of 5 obs.

MAY 18, 1993 10h 19m 33.78± 0.10s
19.914 N ± 2 6km 122.450 E ± 2.7km
DEPTH = 168.6km (geophysicist)
6.4mb (118 obs.)
PHILIPPINE ISLANDS REGION (248)
Mw 6.8 (GS), 6.7 (HRV). mb 6.6 (BRK). Mo=1.1*10**19 Nm (PPT).
Two events about 2.8 seconds apart. Depth from broadband displacement seismograms, based on second event.
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=200 Dip=53 Slip=-152
NP2. 92 68 -40
Principal Axes:
T Plg= 9 Azm=149
P 44 50
Comment: The focal mechanism is moderately well controlled and corresponds to strike-slip faulting with a large normal component. The preferred fault plane is not determined.
RADIATED ENERGY
No. of sta: 10 Focal mech. F
Energy 1.6±0.3*10**14 Nm
MOMENT TENSOR SOLUTION
Dep 177 No. of sta: 20
Moment Tensor; Scale 10**19 Nm
Mrr=-0.98 Mtt= 1.00
Mff=-0.02 Mrt=-0.93
Mrf= 0.22 Mtf= 1.44
Principal axes:
T Val= 2.15 Plg=12 Azm=148
N -0.37 42 248
P -1.78 46 45
Best Double Couple:Mo=2.0*10**19
NP1:Strike=198 Dip=49 Slip=-152
NP2: 89 69 -44
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 43S, **C M.W.: 39S, 94C
Centroid Location:
Origin Time 10:19:42.3 0.1
Lat 19.97N 0.01 Lon 122.65E 0.01
Dep 188.2 0.5 Half-durotion 5.5
Moment Tensor; Scale 10**18 Nm
Mrr=-8.17 0.06 Mtt= 4.41 0.06
Mff= 3.76 0.06 Mrt=-6.39 0.05
Mrf= 2.92 0.05 Mtf= 7.76 0.06
Principal Axes:
T Val= 12.23 Plg= 8 Azm=140
N 0.78 34 235
P -13.01 55 38
Best Double Couple:Mo=1.3*10**19
NP1 Strike=197 Dip=47 Slip=-140
NP2: 77 62 -51

PGP 6.54 193 iPc 21 10.00 1.3
HKC 8.08 289 iP 21 32.70 3.5X
iS 23 03.80
MCO 8.59 286 eP 21 38.80 2.8
eS 23 19.40
MAP 9.65 171 eP 21 53.50 3.6X
SSE 11.19 354 Pc+ 22 11.50 1.5
1.0s 254.00nm 5.7mb
Z 20s 69.00um 5.4Msz
N 10s 32.90um
E 10s 61.60um
pP 22 14.00
PP 22 19.00
S 24 06.00
isS 24 12.00
CGP 11.60 169 iPd 22 16.00 0.6
QIZ 11.92 268 ePc 22 23.35 3.7X
ec 22 25.50
DAV 13.11 166 iP- 22 36.00 1.2
KAGJ 13.56 32 P 22 42.20 1.8
KUMJ 14.64 29 P 22 56.30 2.4
S 25 44.90
KKM 15.06 205 ePc 23 00.00 0.5
1.2s 1310.50nm 6.2mb
e 25 49.00
ENH 15.61 314 ePc 23 09.56 3.5X
SHNJ 16.11 27 eP 23 14.00 1.9
S 26 17.20
TSM 16.15 197 ePd 23 13.50 0.6
0.8s 532.40nm 6.0mb X
e 26 18.50
SHK 17.15 30 ePd 23 25.70 0.9
TKSJ 17.39 34 P 23 28.80 1.1
YONJ 18.06 30 P 23 35.50 0.5
WKYJ 18.41 37 P 23 40.40 1.6
XAN 18.50 322 ePc 23 40.49 0.7
MNI 18.51 172 ePd 23 38.00 -1.9
KMI 18.93 290 ePc 23 47.19 2.7
1.5s 2480.00nm 6.4mb
Z 14s 55.60um 5.0Msz
E 11s 54.30um
ec 23 49.92
pP 23 52.00
S 27 16.00
TSRJ 19.61 35 P 23 52.40 1.3
LOE 19.79 266 iPc 23 54.90 1.8
e 31 23.00
IIDJ 20.64 38 P 24 02.90 1.3
BJI 20.77 346 eP 24 02.52 -0.3
1.5s 1064.00nm 6.1mb X
e 24 05.00 9kmX
ePP 24 32.00
eSP 25 00.00
eS 27 41.00
ePcS 31 41.00
eScS 35 07.00
MTMJ 21.37 36 P 24 09.60 0.7
MAJO 21.56 37 ePd 24 10.52 -0.2
1.3s 503.70nm 5.8mb
e 24 13.08 9kmX
MAT 21.56 37 iPd 24 10.50 -0.2
eS 27 59.00
NST 21.66 262 eP 24 13.50 1.8
e 31 27.50
CHJJ 21.67 39 P 24 09.60 -2.1
CHTO 22.20 271 ePc 24 18.20 1.2
GUMO 22.36 103 eP 24 18.66 0.2
1.2s 2037.72nm 6.5mb
PJG 22.36 103 eP 24 20.00 1.5
eTT 47 23.50
BDT 22.38 267 eP 24 13.00 -5.7X
SWI 22.38 156 ePc 24 18.00 -0.8
eS 28 18.50
GUA 22.41 103 eP 24 20.00 0.9
0.9s 1418.49nm 6.5mb
e 24 24.20
(pP) 24 54.20
KAKJ 22.48 40 P 24 17.20 -2.3
NIIJ 22.51 36 P 24 18.20 -1.6
LZH 22.94 318 ePc 24 26.66 2.4
ec 24 29.22 9kmX
KHT 23.33 261 iPc 24 28.80 0.9
YAMJ 23.75 36 eP 24 31.80 0.0
VLA 24.46 17 iPd 24 42.00 3.5X
Z 19s 22.00um 5.7Msz
N 14s 13.00um
iPPP 25 30.00
i 28 12.00

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18d 10h

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18d 10h

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CTI    89.41 319 P      32 12.80   0.0  |        1.2s   164.25nm        6.0mb X |        1.5s   800.20nm        6.7mb
GRI    89.52 311 P      32 13.52   0.2  |    Z  23s     7.18um        6.1MszX |    Z  27s   *******um        9.3MszX
       0.6s   224.00nm         6.3mb   | GIB    91.57 311 P      32 23.00   0.2  | PAE    94.03 107 iPc    32 38.00   3.8X
BNS    89.53 325 iPc    32 12.80  -0.2  | EBH    91.57 333 eP     32 23.50   1.1  |        1.7s   949.90nm        6.7mb
       1.1s   335.00nm         6.2mb   | KMOR   91.60  40 P      32 23.79   1.0  | HYF    94.05 324 eP     32 33.30  -0.7
   Z  17s    21.00um         6.6MszX  | LOMF   91.63 322 P      32 22.50  -0.4  | SSB    94.08 321 P      32 33.81  -0.4
              ic     32 16.00  10kmX  | RMW    91.64  38 eP     32 23.43   0.5  | PPN    94.12 107 iPc    32 38.50   3.9X
              i+     43 53.00         | VITF   91.65 323 P      32 22.50  -0.4  |        1.6s   554.70nm        6.5mb
SGO    89.54 313 P      32 12.90  -0.4  | EDI    91.65 333 eP     32 19.70  -3.0  | HTR    94.16 330 eP     32 33.30  -1.1
CZI    89.55 312 P      32 14.70   1.4  | EBL    91.68 333 eP     32 21.80  -1.1  |        1.2s   236.00nm        6.3mb
MGR    89.56 313 P      32 12.40  -1.0  |        1.1s   247.00nm        6.2mb   | HCG    94.19 330 eP     32 32.30  -2.2
AKU    89.58 345 iPd    32 14.60   1.6  | REY    91.7B 345 iP     32 24.30   1.1  | CDR    94.22 319 ePd    32 36.40   1.6
       1.0s   168.00nm         6.0mb X |              i          32 27.80  11kmX | HGH    94.23 329 eP     32 34.30  -0.3
              i      32 18.70  13kmX  | EAU    91.81 333 eP     32 21.70  -1.8  | PLDF   94.23 322 P      32 34.83  -0.1
              e      35 46.60         | EAB    91.97 333 eP     32 23.60  -0.6  | BGF    94.34 323 eP     32 34.10  -1.2
ARV    89.79 317 P      32 13.90  -0.6  |        1.2s   168.00nm        6.0mb X |        1.2s   169 00nm        6.1mb X
RSM    89.91 317 P      32 15.80   0.9  | LON    92.02  38 eP     32 24.68   0.0  | TVO    94.37 107 iPc    32 39.80   3.9X
DBN    89.97 327 iP-    32 19.00   4.0X | EKA    92.02 332 P      32 23.00  -1.4  |        1.5s  1307.90nm        6.9mb
   Z  20s     8.50um         6.2Msz   |        1.2s   254.00nm        6.2mb   | LGPM   94.44  44 eP     32 36.25   0.2
              epP    33 16.00 233kmX  | ESK    92.05 332 iPd    32 26.39   1.8  | COLF   94.44 322 P      32 35.87   0.0
              ePP    35 54.00         | SHW    92.06  39 (P)    32 25.88   0.9  | AGO    94.47 322 P      32 35.87  -0.1
              epPP   36 53.00         | PCP    92.06 319 P      32 23.90  -1.0  | LNOR   94.54  38 P      32 37.77   1.5
              iS     42 29.00         | FAI    92.14 311 P      32 27.10   1.8  | DMU    94.60 333 eP     32 38.00   1.6
              e      42 51.00         | COR    92.25  41 eP     32 26.11   0.4  |        1.2s   451.00nm        6.6mb
              esS    43 57.00         |              id         32 29.26  10kmX | PMO    94.68 104 iPc    32 41.10   3.9X
              e      45 00.00         | CKI    92.28 319 P      32 25.40  -0.5  |        1.1s   572.40nm        6.7mb
AQU    90.02 316 P      32 16.30   0.7  | RNO    92.32  41 P      32 27.17   1.0  | MAF    94.69 323 eP     32 36.10  -0.9
SDI    90.04 315 P      32 15.30  -0.4  | LSD    92.43 320 P      32 26.01  -0.9  |        1.2s   303.45nm        6.4mb
PGC    90.08  37 eP     32 16.00   0.4  | FIN    92.44 319 P      32 25.69  -1.0  | PYM    94.71 322 P      32 37.00  -0.1
       0.6s    65.00nm         5.8mb   | ASR    92.46  39 P      32 27.54   0.7  | LDF    94.77 326 eP     32 35.50  -1.7
SOI    90.10 311 P      32 15.90   0.0  | RSP    92.53 320 P      32 25.55  -1.6  |        1.1s   145.55nm        6.2mb
HOFF   90.15 323 P      32 16.38   0.5  | WTV    92.57  37 P      32 28.31   1.1  | WDC    94.80  44 iPd    32 39.43   1.9
ASS    90.17 316 P      32 16.30   0.0  | ROB    92.60 319 P      32 26.33  -1.1  |        2.6s  1890.00nm        6.9mb
GMB    90.19 311 P      32 16.23  -0.3  | SSOR   92.62  40 P      32 28.46   0.9  |              ePPc     35 30.00
       1.3s   841.70nm         6.6mb   | RSL    92.63 321 P      32 27.26  -0.4  |              id       36 31.00
STW    90.21  38 P      32 17.52   1.3  | EBG    92.65  38 P      32 28.49   0.9  |              iSKS     42 58.00
LANF   90.22 323 P      32 16.21  -0.1  | LPG    92.65 321 eP     32 27.10  -0.8  |              i        44 22.00
SFI    90.30 317 P      32 17.10   0.4  |        0.9s   180.15nm        6.2mb   |              i        45 21.00
ENN    90.30 325 eP     32 15.50  -1.1  | LPL    92.65 321 eP     32 27.00  -0.9  |              i        46 07.00
       0.9s    76.90nm         5.7mb   |        1.0s   331.20nm        6.4mb   |              e        58 18.00
SAL    90.31 319 P      32 19.20   2.5  | BHB    92.69 320 P      32 25.69  -2.1  | LBFM   94.82  43 eP     32 38.22   0.3
MEM    90.34 325 iPc    32 16.59  -0.2  | PGF    92.79 317 P      32 27.66  -0.7  | DLF    94.85 332 eP     32 36.70  -0.8
              ic     32 19.77  10kmX | IMI    92.79 319 P      32 27.79  -0.5  |        1.1s   515.00nm        6.7mb
CRE    90.37 317 P      32 17.60   0.4  | SAW    92.88  37 P      32 28.54  -0.1  | FLN    94.85 326 eP     32 35.80  -1.8
PGD    90.40 317 P      32 17.50   0.1  | DOI    92.88 320 P      32 27.80  -0.9  |        1.1s   100.60nm        6.0mb X
MCW    90.41  37 eP     32 17.89   0.7  | ENR    92.92 319 P      32 26.46  -2.5  |    Z  21s    14.45um         6.4Msz
ATN    90.48 311 P      32 17.38  -0.3  | RRL    92.94 320 P      32 28.29  -0.9  | TCF    94.86 323 eP     32 36.70  -1.0
       1.0s    46.30nm         5.5mb   | SAOF   92.96 319 P      32 28.35  -0.7  |        1.2s   264.20nm        6.4mb
MNS    90.48 316 P      32 17.10  -0.6  | PZZ    92.96 320 P      32 27.33  -1.9  | LBL    94.87 322 P      32 37.97   0.1
FEL    90.67 322 P      32 17.99  -0.6  | AUTN   93.03 319 P      32 29.02  -0.6  | TPT    94.93 104 iPc    32 42.10   3.7X
EDR    90.73 333 eP     32 19.30   0.8  | DBO    93.04  42 P      32 30.77   1.3  |        1.5s   766.80nm        6.8mb
RMP    90.73 315 Pd     32 20.50   1.7  | SBF    93.10 319 P      32 29.20  -0.5  | VAH    95.00 104 iPc    32 42.40   3.7X
FIR    90.74 318 iPd    32 20.00   1.3  | TOUF   93.13 319 P      32 29.20  -0.9  |        1.6s   781.10nm        6.8mb
              iS     42 58.00         | AURF   93.15 319 P      32 29.54  -0.5  | EBI    95.20  36 eP     32 39.38  -0.1
WLS    90.77 323 P      32 18.59  -0.3  | REVF   93.20 319 P      32 30.56   0.4  | RUV    95.21 104 iPc    32 43.40   3.7X
WLF    90.77 324 iPc    32 19.11   0.4  | VGB    93.28  39 eP     32 30.86   0.3  |        1.6s   7B6.10nm        6.8mb
              i      36 03.00         | WAH2   93.31  37 P      32 31.84   1.3  | LSF    95.26 323 eP     32 38.20  -1.4
ONR    90.80  39 P      32 20.77   1.8  | LOR    93.37 323 eP     32 29.50  -1.3  |        1.2s   152.35nm        6.2mb
CDF    90.81 323 P      32 18.84  -0.3  |        1.0s   191.20nm        6.2mb   | GRR    95.28 326 eP     32 38.00  -1.6
ECH    90.98 323 P      32 19.27  -0.6  |    Z  20s     6.45um         6.1Msz   |        0.8s    63.65nm        6.0mb X
BDI    91.02 318 P      32 19.70  -0.5  | CROR   93.44  39 P      32 31.56   0.2  | LMEM   95.45  43 eP     32 41.09   0.3
GMW    91.03  38 eP     32 20.53   0.5  | DPW    93.45  36 eP     32 30.61  -0.7  | LPF    95.60 326 eP     32 39.50  -1.5
UCC    91.12 326 P+     32 21.00   0.7  | LBF    93.46 323 eP     32 30.00  -1.3  |        0.9s   154.60nm        6.4mb
              e      36 01.00         |        1.1s   3B2.90nm        6.5mb   | CAF    95.73 322 eP     32 41.00  -0.8
              S      42 37.00         | ARC    93.64  44 ePd    32 32.59   0.4  |        1.2s   113.95nm        6.1mb X
              e      44 09.00         |        1.9s  1420.00nm        6 8mb   | RJF    95.82 323 eP     32 40.40  -1.7
              e      49 09.00         | SSF    93.6B 323 eP     32 31.10  -1.2  |        1.2s   435 55nm        6.7mb
MNO    91.12 311 P      32 21.10   0.2  |        1.2s   233.85nm        6.3mb   |    Z  21s     7.88um         6.2Msz
EDU    91.17 333 eP     32 19.70  -0.8  | SMF    93.73 323 eP     32 31.30  -1.2  | NTYM   95.84  46 (P)    32 43.14   0.8
BBS    91.17 322 P      32 20.38  -0.4  |        1.2s   342.75nm        6.4mb   | MFF    95.98 324 eP     32 41.80  -1.0
JCW    91.18  37 P      32 21.42   0.6  | FHC    93.74  44 eP     32 31.87  -0.8  |        0.9s   121.55nm        6.3mb
MOF    91.19 322 P      32 20.38  -0.5  |        0.9s    59.61nm        5.8mb   | ORV    96.01  44 ePd    32 42.63  -0.5
PII    91.24 318 P      32 20.90  -0.1  | FRF    93.74 319 eP     32 31.40  -1.2  |        1.6s   500.00nm        6.6mb
SNF    91.32 326 iPc    32 22.73   1.5  |        1.1s   159.70nm        6.1mb X |  FRB    96.17   5 eP     32 42.00  -1.3
              ic     36 02.44         | AFR    93.81 107 iPc    32 37.00   3.8X |        0.6s    24.00nm        5.8mb
MEU    91.32 310 P      32 23.80   2.1  |        0.8s   358.90nm        6.6mb   | MTD    96.36 255 iPd    32 58.50  13.5X
BMW    91.32  39 eP     32 21.77   0.3  | NEW    93.82  35 eP     32 32.73  -0.2  |              i        33 39.30 161kmX
DOU    91.38 325 Pc     32 20.40  -1.2  |        0.9s    49.42nm        5.7mb   |              i        36 54.00
              e      36 03.80         | KMPM   93.84  45 eP     32 34.06   0.8  |              i        37 37.10
              e      49 45.10         | HAE    93.85 330 eP     32 31 40  -1.5  |              iS       43 22.30
BOB    91.39 319 P      32 22.00   0.1  | AVF    93.92 323 eP     32 32.10  -1.3  | LPO    96.3B 322 eP     32 42.70  -1.9
BSF    91.39 323 eP     32 20.40  -1.5  |        0.8s   170.85nm        6.3mb   |        1.2s    83.30nm        6.0mb X
       1 5s   298.75nm         6.2mb   | LMR    93.95 319 eP     32 32.50  -1.0  | BKS    96.40  46 iPd    32 46.99   2.1
ESY    91.40 333 eP     32 18.40  -3.2X |        1.2s   223.15nm        6.2mb   |        1.9s   930.00nm        6.8mb
ELO    91.52 333 eP     32 21.10  -1.0  | LRG    93.97 319 eP     32 32.80  -0.8  |              id       32 47.09   0kmX
       1 2s    54.00nm         5.5mb   |        0.9s   203.75nm        6.3mb   |              ePP      35 23.09
HAU    91.55 323 eP     32 21.20  -1.3  | PPT    94.01 107 iPc    32 38.00   3.9X |              id       36 42.09
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                  eSKS  43 05.09          |                       e     37 16.00          | TIC   121.98 292 PKP   38 09.00  -1.4
                  iS    43 06.09          | SEK   103.27 245 iPdiff33 18.10   2 1      | LIC   122.19 291 PKP   38 09.30  -1.5
                  i     43 49.09          |         1.5s     60 00nm          6.2mb     |       Z  20s     4.75um           6.1Msz
                  i     44 33.09          |                       e     37 32.50          | UNM   123.55  49 (PKP) 38 13.50  -0.1
                  e     59 20.09          | RSSD  103.40  32 (Pdiff33 15.81  -0.5       | III   123.97  50 (PKP) 38 16.50   2.1
LFF   96.48 323 eP    32 43.20  -1.9       | EPLA  103.46 322 ePdiff33 18.50   2.1       | IIA   124.04  49 (PKP) 38 15.00   0.8
      1.1s   126.50nm         6.2mb       | ELUO  103.98 319 ePdiff33 20.50   1.7       | KDS   124.93 302 iPKPd 38 16.80   0.8
HMR   96.54  46 (P)  32 45.00  -0.5        | GLA   104.09  47 (Pdiff33 19.57   0.2       | MAMG  126.03 300 PKP   38 18.50   0.1
STAN  96.68  46 iPd   32 48.25   2.1       | MAL   104.59 318 ePdiff33 22.00   0.6       | OXX   126.79  49 (PKP) 38 20.50   0.6
      2.0s  1310.00nm         7.0mb       |                       iS    43 42.00          | KING  126.93 300 PKP   38 18.60  -1.4
ETER  96.76 319 eP    32 48.00   1.6       | BLF   104.69 244 ePdiff33 01.50 -20.8X      | MBO   127.50 307 iPKPc 38 23.60   2.6
MHC   97.08  46 iPd   32 49.89   1.8       |         0.8s     40.00nm                    | TPX   131.40  47 (PKP) 38 31.50   3.1X
      0.9s   260.00nm         6.6mb       |                       e     37 42.60          | PORP  141.23  14 PKP   38 40.80  -5.9X
COE   97.10  46 (P)  32 47.60  -0.4        | JAQ   104.93  11 ePdiff33 24.00   1.4       | CPD   141.40  13 PKP   38 40.00  -7.0X
ARN   97.15  46 eP    32 48.47   0.2       | EPRU  104.95 319 ePdiff33 25.20   2.1       | CPB   142.45   7 ePKP  38 47.08  -1.7
MAW   97.48 199 P     32 51.90   3.1X      | GRM   105.41 240 e(Pdif33 16.00  -9.3X      | NEV   142.85   8 ePKP  38 47.19  -2.3
SAO   97.51  47 (P)  32 49.37  -0.5        |         1.0s     60.00nm          6.6mb     | BPA   143.03   7 ePKP  38 44.50  -5.3X
CMB   97.56  45 ePd  32 50.09  -0.1        |                       e     37 05.00          | MGH   143.31   7 ePKP  38 46.50  -3.8X
      0.6s   270.00nm         6.9mb       | FRS   105.59 244 ePdiff33 20.00  -6.0X      | MDN   144.79   6 ePKP  38 50.47  -2.3
                  id    32 52.41          |         0.8s     13.00nm          6.1mb     | DPMT  144.85   6 ePKP  38 51.08  -1.8
                  ipPd  33 40.68 204kmX   |                       e     37 51.00          | SLB   146.30   6 ePKP  38 55.11  -0.3
                  ec    33 49.85          | GOL   105.78  36 (Pdiff33 26.36  -0.7       | SVV   146.78   7 ePKP  38 56.66   0.5
                  ePPd  35 41.68          |         0.3s     0.56nm          5.2mb X    | SVB   146.82   7 ePKP  38 57.89   1.7
                  i     36 51.68          | GLD   105.83  36 (PKP) 37 41.05   1.8       | FCV   146.94   7 ePKP  38 56.55   0.1
                  iSKS  43 12.68          |       Z  20s     4.16um          6.0Msz     | TOV   148.12  23 ePKPc 38 58.90   0.5
                  i     44 34.68          | NKM   106.02 318 ePKP  37 39.00  -0.4       | CAR   148.39  18 ePKPc 39 02.00   3.1X
                  i     45 40.68          |                       i     37 54.00          | SDV   148.62  25 iPKPc 38 58.60  -0.8
                  i     46 37.68          | TSY   106.42 318 ePKP  37 48.00   7.9X      | OLLA  148.89  18 iPKP  39 03.10   3.4X
                  i     57 26.68          | RSA   106.64 318 ePKP  37 43.00   2.4       | GUAN  149.26  16 iPKP  39 03.30   3.0X
                  e     59 30.68          | TUC   107.27  45 ePdiff33 34.41   0.8       | CEOS  149.34  21 iPKP  39 02.40   2.0
CIR   97.70 251 iPd   32 54.60   3.7X      | ANMO  108.36  41 iPdiff33 41.23   2.7       | TRN   149.40   7 ePKP  39 02.68   2.4
                  i     33 44.70 202kmX   |                       ec    34 42.15          | BOG   150.71  35 iPKPc 39 06.00   3.2X
                  i     36 58.00          | ALQ   108.36  41 (PKP) 37 44.26   0.1       | PSO   151.43  45 ePKP  39 05.50   1.6
LRM   97.83  35 eP    32 51.80   0.3       | POF   110.06 245 e(Pdif33 50.50   4.6X      | NNA   159.86  70 ePKP  39 15.38   1.1
KVN   98.50  43 eP    32 55.06   0.5       |         1.0s     30.00nm                    |                       e     39 57.59
MMPM  98.69  45 (P)   32 54.17  -1.5        |                       e     37 06.00          | PEL   162.37 141 ePKP  39 16.50   0.2
MEMM  98.72  45 eP    32 59.67   4.4X      | TIO   110.09 315 iPKP  37 49.00   1.6       | MDZ   163.61 144 i(PKP)39 18.30   0.7
MEMM  98.72  45 eP    32 55.77   0 5       |                       i     38 27.00          | RTBS  164.15 140 ePKPc 39 19.20   1.2
PHAM  98.72  47 (P)   32 55.00  -0.4        | WIN   111.06 253 e(Pdif33 47.00  -3.8X      | RTCV  164.55 143 ePKPc 39 18.30  -0.2
EGRA  98.73 321 eP    32 55.00  -0 3        |         1.5s     80.00nm                    | ZON   164.69 141 ePKP  39 21.10   2.5
BONR  98.98  44 eP    32 57.33   0.4       |       Z  20s     15 30um          6.6Msz     |                       e     40 19.10
LSZ   98.98 257 eP    32 56.00  -0.9        |                       e     37 51.00          | RTRS  165.15 136 ePKPc 39 19.20   0.3
                  i     32 58.00   6kmX     | ACO   111.35  35 iPdiff33 53.90   2.3       | MRA   165.57 151 e(PKP)39 19.00  -0.2
                  i     33 43.00          | CER   111.38 241 e(Pdif33 44.00  -7.8X      | ARE   166.32  78 ePKP  39 23.00   2.4
                  i     34 14.90          |         0.9s     53.85nm                    | RTPR  166.86 144 ePKPc 39 20.70   0.4
                  i     36 16.80          |                       e     37 51.00          | TCA   166.98 152 ePKPc 39 21.30   0.8
                  i     36 43.00          | GAC   112.70  14 ePKP  37 53.50   1.8       | ANT   167.47 110 iPKP- 39 24.30   3.4X
                  i     40 47.20          | CBM   112.79   8 (PKP) 37 50.31  -1.5       | CYA   168.66 140 ePKPd 39 22.00   0.4
                  i     43 19.00          | FNO   113.37  35 iPKPc 37 56.00   2.6       | ZOBO  169.31  72 PKP   39 24.00   1.0
EROQ  99.11 319 eP    32 59.30   2.2       | ELF   113.51  19 PKP   37 54.60   1.2       |                       i     44 27.60
BCH   99.28  47 (P)   32 58.18   0.1       | HNME  113.56   8 (PKP) 37 53.86   0.4       |                       i     50 57.20
TNP   99.62  44 (P)   32 59.37  -0.4       | LDN   113.69  19 PKP   37 54.80   1.0       |                       i     54 10.30
      1.0s    10.80nm         5.3mb X     | DLA   113.73  19 PKP   37 55.05   1.2       | LPB   169.43  73 PKP   39 24.00   1.2
ABL   100.06  47 ePdiff33 02.38   0.7       | LTX   113.86  43 (Pdiff34 00.98  -2.0       |                       i     44 29.90
BUL   100.08 252 ePdiff33 02.40   0.4       | CCM   114.22  29 ePKP  37 52.88  -2.1       |                       i     05 28.00
                  i     43 23.30          | LMN   114.22   6 ePKP  37 57.00   2.3       | CNCB  169.63  74 PKP   39 21.00  -2.2
ISA   100.13  46 iPdiff33 02.92   1.1       |                       pP    38 59.00          |                       i     44 28.00
      0.5s     0.93nm         4.5mb X     | MIM   114.32   9 (PKP) 37 56.39   1.5       | VAO   169.68 251 ePKP  39 22.90   0.5
BFT   100.46 246 ePdiff33 04.00   0.3       | BNH   114.60  11 (PKP) 37 54.32  -1.2       |                       e     40 40.60
      0 5s    16.00nm         5.8mb       | FVM   114.64  28 (PKP) 37 54.23  -1.5       | BAO   169.95 294 ePKP  39 22.20  -0.6
ETOR  100.61 320 ePdiff33 05.40   1.6       | EMM   115.03   8 (PKP) 37 54.17  -2.1       |                       i     39 26.00
ECHE  100.69 319 ePdiff33 05.50   1.3       | ELC   115.75  28 ePKP  37 56.16  -1.7       |                       e     40 38.00
PAS   101.17  47 iPdiff33 07.89   1.5       | MIAR  115.92  33 (PKP) 37 57.11  -1.2       |                       i     44 31.50
                  ec    34 09.31          | OLY   116.19  30 ePKP  37 55.36  -3.4X      | FSA   170.08 130 ePKP  39 23.50   1.1
BW06  101.38  36 (Pdiff33 07.05  -0.4       | HRV   116.56  12 (PKP) 37 56.88  -2.4       | SLA   171.23 125 ePKPd 39 24.00   0.7
GSC   101.46  46 ePdiff33 09.73   2.0       | GPD   117.38  14 (PKP) 37 59.48  -1.4       | CCH   171.48  74 PKP   39 24.60   0.9
                  e     33 57.73          | PAL   117.52  14 ePKP  37 59.52  -1.6       |                       i     46 18.00
VTV   101.51  47 ePdiff33 10.07   2.2       | PNJ   117.55  14 iPKP  38 02.75   1.6       | HJA   171.99 116 ePKPc 39 25.50   2.2
BCAO  101.51 279 iPdiff33 09.10   0.7       |                       sP'df 39 18.17          | YJA   172.24 108 ePKPd 39 25.30   1.2
      1.0s    40.00nm         6.0mb X     | GMTN  117.57  14 ePKP  38 01.80   0.6       | PPD   173.80 249 ePKP  39 25.20   1.0
                  id    36 59.00          | NAV   119.01  21 ePKP  38 01.85  -2.3       |                       e     39 27.90
DAU   101.93  39 (Pdiff33 09.51  -0.5       | GBTN  119.22  25 ePKP  38 02.77  -1.8       |       S.D. = 1.3  on 606 of 659 obs.
GUD   101.96 321 ePdiff33 11.50   1.6       | BLA   119.23  21 ePKP  38 02.90  -1.7       | ------------------------------------
SLR   102.00 247 iPdiff33 10.20  -0.2       | TKL   119.40  24 ePKP  38 03.41  -1.5       | &  MAY  18, 1993   10h 28m 44.99s
    Z  18s    12.20um         6.5Msz      | AGX   119.69  49 (PKP) 38 09.50   3.7X      |    60.052 N          152.880 W
                  e     37 17.50          | MYNC  119.77  25 ePKP  38 04.65  -1.0       |    DEPTH = 120.5km
PEC   102.01  47 ePdiff33 08.96  -1.2       | SNA   120.03 199 e(PKP)38 04.50  -0.5       |  SOUTHERN ALASKA                    (  2)
      0.7s     3.19nm         5.1mb X     |         0.9s     70.00nm                    |       <AEIC>.
EVIA  102.22 319 ePdiff33 13.00   2.0       | CEH   120.87  20 ePKP  38 06.95  -0.7       |
PLM   102.51  48 (Pdiff33 10.75  -1.8       | PRM   121.33  24 ePKP  38 07.36  -1.2       | INE     0.09 276 eP    29 01.21   0.9
PAB   102.77 321 ePdiff33 13.91   0.4       | GOGA  121.49  25 ePKPd 38 10.49   1.6       |                       eS    29 13.93
                  e     34 16.15          | JSC   121.57  23 ePKP  38 06.03  -3.0       | INW     0.13 277 eP    29 00.99   0.7
PRY   103.03 246 iPdiff33 15.20   0.2       | KIC   121.87 291 PKP   38 08.80  -1.4       |                       eS    29 14.36
      1.5s    30.00nm         5.9mb       |         0.9s     19.00nm                    | RSO     0.42   9 eP    29 01.63  -1.4
                  e     37 30.00          |                       PP    39 41.00          |                       eS    29 14.58
KSR   103.23 247 ePdiff33 17.00   1.0       |                       e     44 50.00          | RDW     0.43   5 eP    29 02.14  -1.0
      1.0s    60.00nm         6.4mb       | MRX   121.88  50 (PKP) 38 09.50  -0.5       |                       eS    29 16.44
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18d 10h

NCT	0.51	357	eP	29	02.48	-1.0				eS	30	05.24		CWCR	0.65	317	P	56	28.44	-0.1
			eS	29	16.10		PCRM	2.28	244	P	29	38.09	0.2	BHPR	0.65	296	P	56	28.50	-0.1
DFR	0.55	10	eP	29	02.58	-1.1	CTM	2.29	240	P	29	38.97	0.8	BCKR	0 84	324	P	56	31.87	-0.4
PDB	0.71	249	iP	29	03.91	-0.8	PSRM	2.29	238	P	29	38.84	0.8	CASR	0.85	311	P	56	32.52	0.1
			eS	29	18.56		PRCM	2.35	249	P	29	39.20	0.3	MRCM	0.89	317	ePd	56	32.77	-0.5
AUL	0.73	203	eP	29	04.10	-0.8	YEG	2.36	225	P	29	40.25	1.1				S	56	45.81	
AUE	0.74	200	eP	29	04.05	-0.9	PTRM	2.36	233	P	29	39.62	0.5	ORC	0.95	311	P	56	34.29	-0.2
AUI	0.77	201	eP	29	04.30	-0.9	PHAM	2.38	238	ePn	29	38.96	-0.4	CLKR	1.03	304	P	56	35.54	-0.6
			eS	29	19.21		PSMM	2.41	245	P	29	44.25	4.5	BONR	1.03	335	eP	56	34.98	-1.2
CNPM	0.98	122	iP	29	06.36	-0.9	PSTM	2.41	241	P	29	44.34	4.6	VPEM	1.07	183	P	56	35.68	-1.0
			eS	29	22.54		PMCM	2.43	236	P	29	40.65	0.7	MCSM	1.12	305	P	56	37.29	-0.4
BRLK	1.05	105	eP	29	07.11	-0.7	PRI	2.43	247	eP	29	39.78	-0.3	TNP	1.14	22	iPd	56	37.53	-0.5
			eS	29	23.24					eS	30	14.24		MEMM	1.15	305	eP	56	37.29	-0.6
NK-	1.07	49	eP	29	08.94	0.9	WKR	2.47	239	P	29	40.79	0.2	WCHM	1.16	193	P	56	38.13	-0.3
CK_	1.18	13	iP	29	08.51	-0.8	PTV	2.48	247	P	29	41.20	0.4	MMPM	1.18	300	eP	56	37.66	-1.0
			eS	29	27.28		LLA	2.49	259	eP	29	40.88	0.0	NMC	1.18	186	P	56	39.20	0.6
CDD	1.19	199	iP	29	08.01	-1.4	ABL	2.50	206	ePn	29	39.84	-1.3	WORM	1.38	197	P	56	41.36	-0.6
			eS	29	26.78		MNHM	2.53	295	P	29	41.52	0.1	WSHM	1.40	171	P	56	42.00	-0.3
CKT	1.20	16	iP	29	08.56	-1.0	BCH	2.61	223	ePn	29	41.58	-1.1	ISA	1.47	204	eP	56	41.96	-1.5
SPU	1.20	19	iP	29	08.55	-1.0				ePg	29	43.20		FRI	1.57	270	iPd	56	44.55	-0.2
CKN	1.23	16	eP	29	09.07	-0.7				eS	30	18.42					eS	57	05.74	
BGL	1.24	11	iP	29	09.39	-0.6	PSAM	2.64	247	P	29	43.47	0.5	GSC	1.88	156	ePd	56	47.67	-1.6
CP2	1.26	14	eP	29	09.32	-1.0	LRC	2.67	252	P	29	43.14	-0.3	PHBM	2.03	248	P	56	53.65	2.3
CPAM	1.26	16	iP	29	09.49	-0.7	ADWM	2.69	300	P	29	47.84	4.2	KVN	2.05	352	eP	56	51.45	-0.4
CRP	1.27	16	eP	29	09.00	-1.4	PMGM	2.70	232	P	29	44.34	0.4				iS	57	23.29	
			eS	29	27.82		PKM	2.70	216	P	29	45.68	1.6	PKEM	2.13	244	ePn	56	54.10	1.3
CGLM	1.33	18	iP	29	10.25	-0.7	PCL	2.71	270	P	29	45.54	1.5	PDRM	2.21	253	P	56	56.54	2.4
SLKM	1.40	70	iP	29	10.24	-1.5	HJSM	2.74	265	P	29	46.72	2.3	PARM	2.22	251	P	56	56.10	1.9
SYI	1.47	170	iP	29	11.03	-1.4	BLRM	2.74	262	P	29	46.24	1.8	CMB	2.33	297	ePd	56	55.69	-0.1
SVW	1.72	309	eP	29	12.77	-2.7	PANM	2.77	242	P	29	45.36	0.5				eS	57	26.39	
			eS	29	35.84		GHS	2.84	271	P	29	47.79	1.9	PMRM	2.35	239	P	56	58.20	2.0
SEW	1.72	87	eP	29	13.60	-1 8	SAO	2.86	264	ePn	29	44.50	-1.7	YEG	2.38	229	P	56	58.93	2.3
SUA	1.76	36	eP	29	15.17	-0.9	PRS	2.89	255	eP	29	45.22	-1.4	MARC	2.39	213	P	56	59.91	3.2
MPA	1.81	74	iP	29	14.99	-1 5	ARN	2.91	276	ePn	29	46.20	-0.7	PHAM	2 44	242	(P)	56	57.02	-0.4
PMS	2.03	52	P	29	18.00	-1.3	CSTL	2.91	281	P	29	50.68	3.8	MCUM	2.47	294	P	56	58.77	1.0
SKT	2.04	18	iP	29	18.15	-1.4	AFHM	2.99	311	P	29	53.88	5.9	ABL	2.47	209	ePn	56	57.88	-0.1
PTE	2.08	65	eP	29	18.18	-1.7	MHC	3.00	276	ePc	29	48.21	0.1	PRI	2.50	250	eP	56	59.63	1.3
PWA	2.18	41	P	29	20.80	-0.3				eS	30	32.70					eS	57	34.55	
KDC	2.32	175	eP	29	19.71	-3.3	COE	3.02	274	ePn	29	48.66	0.3	LLA	2.59	262	eP	56	59.77	0.2
PLRM	2.40	48	eP	29	21.80	-2.2	CBO	3.03	271	P	29	49.27	0.8	BCH	2.63	227	ePn	56	59.38	-0.8
GHO	2.59	47	eP	29	24.74	-1.9	AFDM	3.04	308	P	29	54.18	5.5				S	57	40.12	
SML	2.83	50	eP	29	27.35	-2.5	AHRM	3.05	306	P	29	53.86	5.1	SSK	2.80	179	(Pn)	57	01.93	-0.8
HIN	3.20	81	iP	29	32.62	-2.1	MHR	3.09	276	P	29	51.56	2.2				S	57	47.10	
SCM	3.25	54	eP	29	33.17	-2.1	APRM	3.16	305	P	29	56.06	5.8	BLRM	2.85	264	P	57	06.36	3.2
TTA	3.26	334	eP	29	33.36	-2.1	AFRM	3.20	303	P	29	56.93	6.0	CMPM	2.86	278	P	57	07.32	3.9
HUR	3.32	26	eP	29	35.42	-0.9	HMR	3.27	290	ePn	29	52.75	0.9	BVYM	2.95	266	P	57	06.40	1.8
MID	3.37	98	P	29	36.10	-0.8	PEC	3.27	169	eP	29	48.58	-3.4	SAO	2.97	266	ePc	57	06.02	1.1
VLZ	3.41	69	eP	29	34.71	-2.6	AVRM	3.27	307	P	29	58.04	6.1				eS	57	50.35	
CVA	3.58	79	eP	29	37.64	-2.1	AARM	3.28	312	P	29	58.68	6.6	SAO	2.97	266	eP	57	02.23	-2.7
KLU	3.71	64	iP	29	38.81	-2.7	GCC	3.28	270	eP	29	51.79	-0.2				S	57	49.65	
BALM	5.29	75	eP	30	00.85	-2.2	STAN	3.42	276	ePc	29	55.18	1.1	PRS	2.99	258	eP	57	05.62	0.5
COL	5.41	24	eP	30	01.80	-2.7	BKS	3.53	284	ePc	29	56.72	1.1	ARN	3.04	277	ePnc	57	06.44	0.6
FBA	5.41	24	eP	30	01.23	-3.3	ZSP	3.56	285	eP	29	56.75	0.7				S	57	52.91	
	48 obs. associated						ARUT	3.61	78	ePn	29	53.75	-3.2	MHC	3.12	277	ePd	57	09.89	2.7
----------										ePg	30	04.91					eS	57	54.99	
& MAY 18, 1993 10h 28m 59.22s							ORV	3.74	312	eP	29	57.66	-0.9	COE	3.14	276	ePn	57	05.22	-2.1
37.112 N 117.900 W							OSUM	3.79	306	P	30	09.07	9.8				S	57	56.53	
DEPTH = 6.7km							PLM	3.85	167	eP	29	57.31	-3.0	PEC	3.16	171	ePc	57	07.13	-0.4
CALIFORNIA-NEVADA BORDER REGION (40)							GARM	3.90	299	P	30	10.64	9.8	HMR	3.41	291	(Pn)	57	12.22	1.1
<GM-P>. MD 3.7 (GM), 3.6 (PAS).							NTYM	3.98	290	ePn	30	02.32	0.3				S	58	01.07	
ML 3.8 (BRK), 3.5 (GS).							MIN	4.34	319	eP	30	10.82	3.6	ARUT	3.52	76	ePn	57	11.17	-1.6
							LMEM	4.46	321	ePg	30	23.30	14.3				eS	58	11.30	
BHPR	0.50	292	P	29	09.02	-0.4	MSU	4.74	71	ePn	30	10.82	-2.3	STAN	3.55	278	ePc	57	15.65	2.5
MRCM	0.74	319	iPc	29	13.40	-0.6				ePg	30	24.26					eS	58	07.25	
CLKR	0.88	303	P	29	15.90	-0.7	GLA	4.77	147	ePn	30	08.88	-4.4	BKS	3.67	285	ePc	57	16.57	1.8
BONR	0.90	339	iPc	29	16.30	-0.7	LBFM	5.24	325	eP	30	19.07	-1.0	PLM	3.73	168	(Pn)	57	14.99	-0.9
MEMM	1.00	304	iPc	29	18.07	-0.3	HVU	6.12	39	ePn	30	31.83	-0.6				S	58	19.44	
			eS	29	31.33					ePg	30	52.47		ORV	3.89	312	ePn	57	18.94	1.0
MMPM	1.03	299	iPc	29	18.36	-0.8	DAU	6.15	56	ePn	30	31.76	-1.2				S	58	18.49	
TNP	1.11	29	iPd	29	19.20	-1.3	SRU	6.15	69	ePn	30	32.11	-0.8	NTYM	4.13	291	(Pn)	57	25.75	4.5
NMC	1.27	180	P	29	20.65	-2.5	EMUT	6.18	62	ePg	30	52.68	19.3	MIN	4.49	319	eP	57	28.33	1.8
FRI	1.45	266	eP	29	25.28	-0.6	PV09	7.08	76	ePg	31	08.83	22.7	LMEM	4.61	321	(Pn)	57	33.50	5.2
			eS	29	44.18		PV10	7.13	77	ePn	30	45.09	-1.7	GLA	4.63	148	ePn	57	26.85	-1.6
WSHM	1.51	167	P	29	24.18	-2.7	PV08	7.47	76	ePn	30	50.96	-0.6	MSU	4.66	70	(Pn)	57	29.70	0.5
ISA	1.52	198	ePd	29	24.60	-2.3				ePg	31	16.07		LBFM	5.39	325	ePn	57	37.79	-1.6
			eS	29	43.50		TUC	7.57	127	eP	30	49.20	-3.5	SRU	6.07	68	eP	57	51.15	2.1
WJPM	1.76	196	P	29	29.63	-0.8	MCMT	8.60	25	eP	31	13.30	6.0	DAU	6.10	54	(Pn)	57	48.91	-0.7
KVN	1.94	355	ePc	29	32.33	-0.8	88 obs. associated							EMUT	6.12	61	(Pn)	57	49.24	-0.5
			eS	30	02.34		----------							HVU	6.12	37	(Pn)	57	47.46	-2.2
PHBM	1.95	245	P	29	34.04	0.9	& MAY 18, 1993 10h 56m 15.57s							PV09	6.99	75	ePn	57	58.66	-3.3
PWMM	1.98	251	P	29	34.45	1.0	37.019 N 117.751 W							PV10	7.04	76	ePnd	58	01.89	-0.8
GSC	2.01	154	ePd	29	30.58	-3.5	DEPTH = 0.0km							PV08	7.37	75	(Pn)	58	07.71	0.2
PKEM	2.06	240	ePn	29	33.04	-1.7	3.5mb (1 obs.)							BW06	8.53	45	(Pn)	58	24.67	1.2
			eS	30	01.40		CALIFORNIA-NEVADA BORDER REGION (40)							MCMT	8.64	24	eP	58	27.60	2.6
PDRM	2.13	249	P	29	36.64	0.9	<GM-P>. MD 3.7 (GM), 3.4 (PAS).										e	58	57.60	
PARM	2.14	247	P	29	36.72	0.8	ML 3.8 (BRK), 3.5 (GS).							YKA	25.58	3	eP	01	48.30	0.7
CMB	2.18	296	ePc	29	35.96	-0.5									1.0s		0.90nm			3.5mb

68 obs. associated

& MAY 18, 1993 11h 04m 54.73s
37.145 N 117.782 W
DEPTH = 0.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. MD 3.2 (GM), 3.0 (PAS).
ML 2.9 (GS).

CWCR	0.54	310	P	05 04.21	-1.4
BHPR	0.58	286	P	05 06.65	0.3
BCKR	0.72	320	P	05 09.03	-0.2
CASR	0.75	305	P	05 09.68	0.0
ORC	0.85	305	P	05 11.52	-0.2
CLKR	0.94	298	P	05 13.25	-0.3
MCSM	1.03	300	P	05 14.75	-0.6
TNP	1.04	25	iPc	05 15.12	-0.3
			eS	05 29.32	
MEMM	1.06	300	iPc	05 15.24	-0 3
WORM	1.49	195	P	05 23.00	0.1
WASM	1.54	204	P	05 24.64	0.9
ISA	1.58	201	ePnc	05 23.70	-0.5
WBSM	1.63	190	P	05 25.57	0.6
WJPM	1.82	198	P	05 29.10	1.4
KVN	1.92	353	ePn	05 28.64	-0.5
			ePg	05 30.48	
			eS	05 56.60	
GSC	2.00	156	ePn	05 28.87	-1.4
PHBM	2.05	245	P	05 33.06	2.1
BMTC	2.11	198	P	05 34.47	2.6
ARVC	2.18	203	P	05 36.09	3.2
MSTM	2.22	291	P	05 35.99	2.6
PARM	2.24	247	P	05 36.04	2.3
CMB	2.25	294	ePn	05 33.50	-0 4
MCUM	2.40	291	P	05 35.86	-0.1
BRMM	2.45	264	P	05 39.74	3.0
PHAM	2.48	239	(P)	05 37.36	0.2
MARC	2 48	211	P	05 41.11	4.0
ABL	2.57	207	ePn	05 39.31	0.8
			S	06 15.30	
BCH	2.70	224	ePn	05 41.15	0.8
SSK	2.93	179	ePn	05 43.82	0.2
ARN	3.00	275	ePn	05 45.45	0.9
ARUT	3.51	78	ePn	05 50.24	-1.7
			eS	06 48.24	
ORV	3.79	311	ePg	06 04.01	8.3
PLM	3.86	168	ePn	05 55.88	-1.0
GLA	4.75	148	(Pn)	06 10.19	0.8

34 obs. associated

% MAY 18, 1993 11h 11m 58.59± 0.84s
41.055 N ± 7 6km 23.230 E ± 5.7km
DEPTH = 10.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)

SOH	0.25	158	iPg	12 03.89	-0.1
			iSg	12 08.46	
KNT	0.27	293	iPg	12 04.24	-0.1
			eSg	12 08.52	
SRS	0.28	77	ePg	12 04.53	0.0
			eSg	12 09.01	
THE	0.47	206	ePg	12 08.12	0.0
			eSg	12 15.28	
GRG	0.63	261	ePg	12 11.48	0.1
			eSg	12 20.76	

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

• MAY 18, 1993 11h 15m 10.41± 0.38s
6.997 S ± 8.1km 154.941 E ± 9.5km
DEPTH = 33 0km (normal)
4.9mb (19 obs.)
SOLOMON ISLANDS (193)

RAB	3.92	315	e(P)	16 10.00	0.1
DZM	18.65	145	iPd	19 30.10	2.2
OIS	20.06	226	iPd	19 49.00	5.1X
	0.7s		15.00nm	4.4mb	
ARMA	23.51	187	iPd	20 19.40	0.9
	1.0s		20.00nm	4.6mb	
WB2	23.76	235	iPd	20 20.20	-0.7
	0.7s		34.90nm	5.0mb	
ASPA	26.13	228	iPd	20 42.00	-1.5
	0.8s		16.40nm	4.7mb	
STK	27.72	205	eP	20 56.40	-1.4
	0.6s		9.70nm	4.7mb	
KMI	59.97	304	eP	25 18.00	1.4
	1.5s		70.00nm	5.6mb	
			pP	25 28.50	35kmX
CHTO	60.85	296	eP	25 22.70	0.3
	1.0s		12.00nm	5.0mb	
SDN	72.26	25	(P)	26 33.23	-1.0
	1.0s		19.34nm	5.1mb	
GUN	75.07	301	P	26 51.20	-0.5
PKI	75.38	301	P	26 53.40	0.0
KKN	75.55	301	P	26 54.00	-0.2
	0.8s		46.00nm	5.5mb	
DMN	75.65	301	P	26 54.90	0.1
	0.8s		59.00nm	5.6mb	
GKN	76.15	301	P	26 57.50	-0.1
	0.8s		44.00nm	5.5mb	
SVW	78.01	22	eP	27 07.88	0.8
	0.9s		13.42nm	5.0mb	
TTA	79.04	21	eP	27 12.00	-0.7
	0.9s		3.77nm	4.4mb	
CP2	79.40	23	eP	27 13.21	-1.6
GBA	79.60	285	P	27 19.00	2.5
SLKM	79.76	24	ePc	27 16.30	-0.3
PMS	80.45	24	ePc	27 20.50	0.3
PMR	80.81	24	eP	27 21.59	-0.4
	0.8s		10.59nm	4.9mb	
IMA	81.82	19	eP	27 27.60	0.2
	0.9s		3.29nm	4.4mb	
KLU	82.06	25	eP	27 28.79	0.1
FBA	83.14	21	eP	27 32.58	-1.5
	0.7s		5.42nm	4.8mb	
BALM	83.35	26	eP	27 36.06	0.6
INK	89.74	21	eP	28 08.00	1.7
	1.0s		1.00nm	4.0mb	
MBC	95.72	14	eP	28 34.00	0.2
	1.0s		3.00nm	4.7mb	
YKA	96.36	28	eP	28 36.70	-0.2
	0.8s		5.50nm	5.1mb	
KHC	126.91	329	ePKP	34 13.50	0.8
			e	34 23.50	
GEC2	127.03	329	PKP	34 13.50	0.5
	1.2s		4.52nm		
			e	34 24.70	
CNCB	131.41	120	ePKP	34 20.00	-2.8
LPB	131.43	119	(PKP)	34 15.00	-7.7X
ZOBO	131.52	119	PKP	34 21.70	-1.4
BCAO	136.56	269	iPKPd	34 33.50	1.4
	1.0s		10.00nm		
BAO	148.04	135	iPKPd	34 56.00	3.9X

S.D. = 1.2 on 33 of 36 obs.

% MAY 18, 1993 11h 27m 22.32± 0.84s
26.444 S ± 6.2km 27.393 E ± 9.2km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.1 (PRE).

PRY	0.49	172	eP	27 31.50	-0.6
KSR	0.73	322	eP	27 36.90	0.0
			S	27 46.50	
SLR	1.07	49	eP	27 42.50	-0.5
			S	27 56.00	
SEK	1.88	174	iPc	27 56.20	0.6
			S	28 20.00	
BFT	2.50	73	eP	28 05.00	0.5
			S	28 33.00	

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

& MAY 18, 1993 11h 35m 36.91s
60.969 N 149.906 W
DEPTH = 39.0km
KENAI PENINSULA, ALASKA (14)
<AEIC>. ML 3.2 (AEIC), 3.7
(PMR).

PMS	0.32	31	P	35 45.00	-0.4
PTE	0.44	103	iPc	35 46.29	-0.5
			eS	35 53.64	
SLKM	0.49	199	iPd	35 46.92	-0.6
			eS	35 55.26	
MPA	0.55	151	iPc	35 47.63	-0.7
			eS	35 56.23	
SUA	0.64	321	iPd	35 49.05	-0.6
			eS	35 58.51	
PWA	0.68	1	P	35 49.50	-0.6
NKA	0.69	251	iPc	35 51.14	0.9
PLRM	0.73	31	iPd	35 49.82	-0.9
			eS	36 00.21	
PMR	0.73	31	ePc	35 49.49	-1.3
			eS	35 59.97	
SEW	0.90	165	iPd	35 51.88	-1.3
			eS	36 04.87	
GHO	0.93	30	iPd	35 53.04	-0.7
			eS	36 05.89	
SPU	1.07	282	iPc	35 54.79	-0.8
			eS	36 09.11	
CGLM	1.07	289	ePd	35 55.22	-0.6
CRP	1.13	286	iPc	35 55.62	-1.1
			eS	36 10.19	
SML	1.13	41	ePc	35 55.83	-0.7
CKN	1.13	284	iPc	35 56.19	-0.4
CKT	1.14	283	iPc	35 56.01	-0.7
			eS	36 11.34	
CP2	1.17	286	iPc	35 56.58	-0.7
CKL	1.20	282	iPc	35 57.00	-0.6
8GL	1.24	285	iPc	35 57.77	-0.4
SKT	1.28	323	iPc	35 58.12	-0.5
			eS	36 15.90	
BRLK	1.30	202	ePd	35 58.19	-0.8
			eS	36 14.01	
DFR	1.42	256	ePc	36 00.46	-0.2
RDN	1.48	253	eP	36 00.69	-0.8
			eS	36 20.26	
RSO	1.49	251	ePc	36 00.92	-0.9
RDW	1.51	252	ePc	36 01.23	-0.8
			eS	36 21.61	
SCM	1.51	54	ePc	36 01.16	-0.9
NCT	1.54	256	iPc	36 01.58	-0.8
			eS	36 22.13	
CNPM	1.59	205	iPd	36 02.26	-0.8
			eS	36 22.79	
VLZ	1.75	83	ePc	36 04.06	-1.2
HIN	1.77	107	ePc	36 03.37	-2.3
INE	1.81	241	iPc	36 05.81	-0.5
			eS	36 29.55	
INW	1.83	242	iPc	36 06.19	-0.5
KLU	2.00	73	iPc	36 07.57	-1.4
HUR	2.02	3	eP	36 09.63	0.4
CVA	2.08	100	eP	36 07.93	-2.2
SGAM	2.36	99	eP	36 11.91	-2.1
AUE	2.37	229	eP	36 14.14	0.0
AUL	2.38	229	eP	36 14.29	0.0
TZL	2.40	61	eP	36 15.11	0.4
AUI	2.41	229	P	36 15.10	0.4
PDB	2.44	243	eP	36 14.25	-0.9
TRF	2.50	356	eP	36 16.99	0.8
SDG	2.60	51	eP	36 18.19	0.7
RAGM	2.64	100	eP	36 14.96	-3.1
SYI	2.68	209	eP	36 17.37	-1.2
CDD	2.78	224	ePd	36 18.98	-1.1
SVW	2.78	275	ePc	36 18.16	-2.0
MCK	2.81	9	eP	36 22.58	2.1
MCNL	2.85	233	eP	36 20.57	-0.5
PAX	2.90	44	eP	36 23.29	1.4
GLB	2.99	78	ePc	36 21.08	-1.9
CROM	3.32	91	eP	36 27.34	-0.5
TGL	3.47	90	eP	36 28.10	-1.8
TTA	3.49	307	eP	36 27.76	-2.4
KDC	3.49	203	eP	36 26.28	-3.8
WRH	3.61	13	eP	36 30.93	-0.9
BALM	3.68	86	eP	36 30.34	-2.6
HDA	3.71	20	eP	36 34.00	0.8
CCB	3.82	14	eP	36 34.54	-0.2
YAH	4.06	95	eP	36 35.27	-3.2
FBA	4.06	13	P	36 38.70	0.5
MDM	4.08	10	eP	36 38.85	0.4
MLY	4.10	355	eP	36 38.34	-0.4
CTGM	4.18	86	eP	36 38.52	-1.5
GLM	4.19	15	eP	36 40.33	0.2
IMA	5.39	343	eP	36 56.15	-0.9

67 obs. associated

MAY 18, 1993 11h 44m 25.91± 0.54s
42.761 N ± 5.2km 142.025 E ± 5.3km
DEPTH = 38.3 ± 6.9 km
4.3mb (8 obs.)
HOKKAIDO, JAPAN REGION (224)

SAP	0.59	300	eP	44 37.00	-0.8
			iS	44 47.40	
MRRJ	0.78	245	P	44 39.00	-1.5
			eS	44 50.20	
HOOJ	1.01	112	P	44 42.80	-0.9
			eS	44 57.70	
ASAJ	1.43	18	iP+	44 51.80	2.1
KUSJ	2.00	79	P	44 57.90	0.0
			eS	45 24.00	

18d 11h

AOMJ	2.52	210	P	45	05.10	-0.3
			eS	45	40.40	
OFUJ	3.69	184	P	45	20.60	-1.3
			eS	46	04.30	
YAMJ	4.83	199	eP	45	38.30	0.2
NIIJ	5.98	204	eP	45	55.10	0.8
MAT	6.87	207	(P)	46	08.00	1.2
			(S)	47	43.00	
MTMJ	6.97	209	eP	46	09.40	1.1
CHJJ	7.10	200	eP	46	09.20	-0.8
TSRJ	8.60	215	eP	46	32.00	1.1
BJI	19.56	271	eP	48	54.50	1.2
YAK	20.63	343	eP	49	04.00	-0.3
	1.0s		70.00nm			5.0mb
IMA	41.59	34	eP	52	10.90	-0.5
	0.6s		2.21nm			4.1mb
FBA	44.08	35	eP	52	31.45	-0.1
	0.6s		3.81nm			4.4mb
KLU	45.38	40	eP	52	41.72	-0.4
GUN	47.31	271	P	52	57.80	-0.3
	0.8s		32.00nm			5.4mb X
GKN	48.17	272	P	53	04.40	-0.2
INK	49.12	29	eP	53	12.00	0.9
	1.0s		1.00nm			3.8mb
MBC	50.92	18	eP	53	24.50	-0.3
YKA	58.66	32	eP	54	20.00	-1.3
	0.8s		1.50nm			4.2mb
FCC	68.69	28	eP	55	33.00	5.9X
NB2	69.10	337	P	55	28.20	-1.5
	0.8s		2.90nm			4.4mb
BW06	73.36	47	eP	55	55.45	-0.3
	0.6s		1.57nm			4.2mb
RSSD	75.28	43	eP	56	06.74	-0.1
	0.6s		2.88nm			4.4mb
SRU	75.33	50	eP	56	07.73	0.5
PV10	76.68	50	eP	56	15.48	0.6
PV08	76.76	49	eP	56	15.84	0.4
LTX	86.27	53	eP	57	05.73	0.6
S.D. = 0.9			on	30	of	31 obs.

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* MAY 18, 1993 11h 47m 37.66± 0.94s
50.970 N ±22.3km 158.204 E ±10.6km
DEPTH = 33.0km (normal)
4.4mb (8 obs.)
EAST OF KURIL ISLANDS (222)

FBA	30.77	42	eP	53	51.09	-0.7
	0.6s		2.03nm			4.1mb
INK	36.27	36	eP	54	40.50	1.3
	0.6s		1.00nm			3.9mb
CHTO	56.33	258	eP	57	17.70	0.1
RSSD	61.58	54	(P)	57	53.96	-0.1
SRU	61.59	62	eP	57	54.28	0.1
PV10	62.93	62	eP	58	03.47	0.3
PV08	63.01	61	ePc	58	03.83	0.0
NB2	65.25	343	P	58	15.60	-2.1
	0.7s		1.70nm			4.3mb
LTX	72.57	65	eP	59	02.53	-0.9
GRR	79.40	346	eP	59	41.50	0.0
SSF	79.95	343	eP	59	44.30	-0.2
AVF	80.24	343	eP	59	45.90	-0.1
	0.5s		2.40nm			4.4mb
LPL	80.77	340	eP	59	49.80	0.6
	0.4s		1.70nm			4.4mb
LPG	80.79	340	eP	59	50.00	0.7
	0.5s		2.25nm			4.4mb
MAF	80.93	343	eP	59	50.20	0.5
	0.5s		2.25nm			4.4mb
MFF	81.03	345	eP	59	50.60	0.4
	0.6s		4.05nm			4.6mb
S.D. = 0.8			on	16	of	16 obs.

MAY 18, 1993 12h 06m 32.93± 1.18s
32.598 S ± 4.4km 71.718 W ±10.8km
DEPTH = 10.0km (geophysicist)
NEAR COAST OF CENTRAL CHILE (135)
MD 4.4 (SAN).

ROCH	0.70	122	iPd	06	47.27	0.3
			iS	06	57.77	
LCCH	0.88	172	iP	06	50.36	0.5
			iS	07	03.02	
JACH	0.95	95	iP	06	50.42	-0.7
			iS	07	03.47	
PEL	1.03	122	iP+	06	52.47	0.1
			iS	07	06.68	
SAN	1.23	134	iP	06	55.30	-0.5
			iS	07	13.36	
TACH	1.24	148	iP	06	56.12	0 1
			iS	07	13.25	
LNV	1.38	169	iP	06	57.49	-0.6
			iS	07	17.44	
FCH	1.40	122	iP+	06	58.09	-0.8
			iS	07	16.83	
PCH	1.44	136	iP	06	58.76	-0.3
			iS	07	18.75	
CHCH	1.60	146	iP	07	02.13	0.7
			iS	07	23.70	
RTBS	2.14	65	e(P)c	07	10.00	0.9
MDZ	2.43	97	iP	07	15.80	2.4X
			iS	07	48.60	
RTCB	2.72	67	iPc	07	18.50	1.0
ZON	2.79	69	eP	07	20.00	1.6X
			eS	07	57.00	
RTCV	2.79	76	ePc	07	19.20	0.6
			S	08	06.00	
RTLL	3.04	66	ePd	07	22.00	0.0
RTRS	3.10	39	ePd	07	22.60	-0.1
			S	08	07.50	
CFA	3.11	72	ePd	07	23.60	0.6
			(S)	08	04.50	
RFA	3.47	130	eP	07	28.40	0.3
RTPR	5.00	64	e(P)c	07	48.10	-1.7
FSA	8.18	39	e(P)	08	34.00	-0.5
CNCB	16.08	13	P	10	15.00	-6.2X
LPB	16.33	12	(P)	10	10.00	-14.3X
ZOBO	16.58	12	P	10	16.00	-11.7X
S.D. = 0.7			on	19	of	24 obs.

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* MAY 18, 1993 12h 22m 53.54± 1.27s
32.619 S ± 5.0km 71.725 W ±11.6km
DEPTH = 10.0km (geophysicist)
NEAR COAST OF CENTRAL CHILE (135)
MD 4.4 (SAN).

ROCH	0.70	121	iPd	23	07.70	0.2
LCCH	0.86	171	iP	23	10.79	0 6
			iS	23	25.02	
JACH	0.96	94	iP	23	10.82	-1.0
			iS	23	23.19	
PEL	1.02	121	iP+	23	12.87	0.0
			iS	23	26.46	
SAN	1.22	133	iP	23	15.93	-0.3
			iS	23	32.58	
TACH	1.22	148	iP	23	16.47	0.1
			iS	23	32.96	
LNV	1.36	169	iP	23	17.90	-0.6
			iS	23	38.02	
FCH	1.40	121	iP+	23	18.49	-0.9
			iS	23	36.62	
PCH	1.42	135	iP	23	19.28	-0.3
			iS	23	38.82	
CHCH	1.59	146	iP	23	22.36	0.5
			iS	23	43.95	
RTBS	2.15	64	iPd	23	31.00	1.1
MDZ	2.44	97	iP	23	46.20	12.1X
			iS	24	10.20	
ZON	2.80	68	eP	23	40.00	0.8
			eS	24	12.00	
RTCV	2.80	75	ePc	23	40.20	0.9
			S	24	17.50	
RTRS	3.12	39	iPd	23	43.60	0.0
RTPR	5.02	64	e(P)d	23	10.50	-60.1X
TCA	6.19	80	ePd	24	24.00	-3.3X
			S	25	32.00	
FSA	8.20	39	e(P)	24	54.00	-1.3
CNCB	16.10	13	P	26	34.00	-8.1X
LPB	16.35	12	(P)	26	37.00	-8.2X
ZOBO	16.60	12	P	26	43.00	-5.6X
S.D. = 0.8			on	15	of	21 obs.

? MAY 18, 1993 12h 42m 47.74± 0.99s
40.126 N ±10.6km 21.733 E ±12.5km
DEPTH = 10.0km (geophysicist)
GREECE (364)

LIT	0.58	92	ePg	42	59.57	0.0
			eSg	43	09.96	
FNA	0.71	338	ePg	43	01.56	-0.2
			iSg	43	13.62	
AGG	1.20	157	ePb	43	10.00	0.0
			eSb	43	27.80	
OHR	1.21	324	ePn	43	10.60	0.2
S.D. = 0.3			on	4	of	4 obs.

? MAY 18, 1993 13h 05m 20.65± 9.09s
32.296 S ±58.8km 71.869 W ±47.1km
DEPTH = 33.0km (normal)
NEAR COAST OF CENTRAL CHILE (135)
MD 3.6 (SAN).

ROCH	0.99	133	iPd	05	37.66	-0.8
			iS	05	47.87	
JACH	1.14	110	iP	05	40.73	0.2
			iS	05	53.63	
LCCH	1.20	168	iP	05	41.46	0.3
			iS	05	53.83	
PEL	1.31	131	iP+	05	42.69	-0.1
			iS	05	56.64	
TACH	1.56	150	eP	05	46.71	0.2
			iS	06	02.88	
FCH	1.68	128	iP+	05	48.41	0.0
			iS	06	06.64	
LNV	1.70	167	iP	05	47.80	-0.6
			iS	06	07.56	
PCH	1.74	140	iP	05	49.29	0.1
			iS	06	09.17	
CHCH	1.93	148	iP	05	52.46	0.7
			iS	06	13.75	
S.D. = 0.5			on	9	of	9 obs.

? MAY 18, 1993 13h 21m 06.16± 0.97s
13.110 N ±13.7km 89.390 W ± 9.8km
DEPTH = 55.1km (3 depth phases)
4.3mb (6 obs.)
EL SALVADOR (73)
Felt (III) at San Salvador.

SJAS	0.59	21	iPd	21	08.90	-10.2X
LFU	0.69	23	iPd	21	10.50	-9.7X
TME	0.90	2	iPd	21	12.50	-10.4X
YPE	1.04	344	iPd	21	13.80	-11.2X
TPX	3.31	303	(P)	21	58.00	1.3
			iS	22	24.00	
OXX	8.11	300	eP	23	07.50	3.4X
IISM	9.65	308	(P)	23	22.50	-2.5
PPM	10.67	305	iP	23	40.50	1.0
IIA	10.74	305	(P)	23	41.00	1.1
III	11.02	300	iP	23	34.00	-10.0X
LTX	20.89	323	eP	25	44.74	-1.5
GOGA	20.92	14	eP	25	46.51	0.1
	0.7s		12.66nm			4.4mb
MIAR	21.68	351	eP	25	54.17	0.2
	1.0s		13.61nm			4.3mb
PRM	21.83	16	eP	25	56.07	0.5
JSC	22.33	18	eP	26	01.04	0.6
			e	26	14.92	59km
OLY	22.37	356	eP	26	01.67	0.8
			e	26	14.96	56km
ELC	24.07	0	eP	26	15.77	-1.6
FVM	24.79	358	(P)	26	24.82	0.5
	0.8s		12.80nm			4.5mb
PLM	32.13	313	eP	27	30.80	0.0
			e	27	43.84	51km
BONR	35.69	319	eP	28	01.81	0.3
ULM	37.41	353	eP	28	16.50	1.0
LRM	38.00	334	eP	28	21.30	0.4
FCC	45.70	357	eP	29	26.00	2.8X
FRB	52.64	11	eP	30	12.50	-4.1X
	0.5s		8.00nm			5.0mb
INK	62.02	343	eP	31	20.50	-2.2
	0.6s		1.00nm			4.1mb
MBC	65.11	352	ePc	31	39.50	-3.4X
	0.5s		1.00nm			4.1mb
WB2	137.61	255	ePKP	40	26.70	0.0
	0.6s		4.30nm			
WRA	137.62	255	PKP	40	27.20	0.5
	0.7s		1.60nm			
CHTO	147.23	345	ePKP	40	43.60	0.2
GBA	150.42	27	PKP	40	48.00	-0.4
S.D. = 1.1			on	21	of	30 obs.

? MAY 18, 1993 13h 40m 45.03± 0.96s
42.797 N ± 6.6km 13.012 E ±11.4km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ASS	0.38	317	P	40	53.20	0.4
			eSg	40	59.60	
MNS	0.48	211	P	40	54.50	-0.3
			eSg	41	01.30	

AOU	0.53	147	P	40	56.00	0.2
ARV	0.70	356	P	40	58.50	-0.4
			eSg	41	10.70	

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

% MAY 18, 1993 13h 54m 13.75± 0.55s
40.193 S ± 6.1km 173.811 E ± 7.3km
DEPTH = 140.0km (geophysicist)
COOK STRAIT, NEW ZEALAND (163)

DIW	0.61	172	Pd	54	35.90	1.0
			S	54	51.50	
NRZ	0.86	6	P	54	38.30	1.7
BSZ	0.95	66	P	54	39.20	1.8
KIW	1.07	129	P	54	39.20	0.7
			eS	54	56.20	
TCW	1.08	161	P	54	39.20	0.7
			S	54	56.80	
ORZ	1.17	237	Pc	54	39.40	0.0
			S	54	57.40	
MRW	1.24	147	Pc	54	40.70	0.6
			S	54	59.50	
WEL	1.31	147	Pc	54	41.30	0.4
CAW	1.32	134	Pc	54	41.60	0.6
MNG	1.34	109	P	54	42.00	0.8
			S	55	00.90	
MTW	1.61	127	Pc	54	44.40	0.3
MOW	1.64	139	Pc	54	44.40	-0.1
CNZ	1.67	54	P	54	45.60	0.7
NGZ	1.71	54	P	54	45.90	0.4
THZ	1.71	203	P	54	45.00	-0.4
			S	55	07.80	
BLW	1.72	133	P	54	45.60	0.2
MOZ	1.85	25	P	54	47.40	0.5
			S	55	12.30	
WAHZ	2.02	77	P	54	49.10	0.1
DSZ	2.17	224	P	54	49.80	-1.0
KHZ	2.23	185	P	54	51.00	-0.5
			S	55	16.70	
TEHZ	2.31	86	P	54	51.10	-1.4
WHH	2.45	59	P	54	53.80	-0.6
LTZ	2.83	204	eP	54	57.60	-1.6
			S	55	28.70	
URZ	3.21	54	P	55	02.50	-1.5
NOZ	3.63	66	eP	55	08.40	-1.2
PUZ	4.05	60	eP	55	13.10	-2.1
HBZ	4.36	55	eP	55	15.90	-3.3X
ODZ	5.38	205	eP	55	29.10	-3.9X
			S	56	25.50	

S.D. = 1.0 on 26 of 28 obs.

? MAY 18, 1993 14h 03m 53.08± 0.82s
4.194 S ±19.8km 150.858 E ±17.0km
DEPTH = 33.0km (normal)
4.4mb (3 obs.)
NEW BRITAIN REGION, P.N.G. (192)

RAB	1.30	90	iPd	04	15.00	-0.1
	0.5s		1249.43nm			
WB2	22.45	224	eP	08	50.80	0.0
	0.5s		5.50nm		4.3mb	
ASPA	25.35	219	eP	09	18.90	0.0
	0.6s		5.60nm		4.3mb	
GUN	70.15	302	P	15	00.00	-5.3X
SVW	77.03	24	eP	15	45.70	1.4
TTA	77.93	22	eP	15	50.50	1.2
IMA	80.54	20	eP	16	00.60	-2.9
KLU	81.27	26	eP	16	08.08	0.8
FBA	82.05	22	eP	16	10.58	-0.6
	0.8s		3.83nm		4.5mb	
INK	88 59	21	eP	16	46.00	2.4X
MBC	93 99	14	eP	17	10.00	1.5X

S.D. = 1.6 on 8 of 11 obs.

MAY 18, 1993 14h 39m 43.26± 0.26s
37.034 N ± 2.9km 117.711 W ± 2.5km
DEPTH = 5.0km (geophysicist)
3.3mb (1 obs.)
CALIFORNIA-NEVADA BORDER REGION (40)
MD 3.4 (GM), 3.0 (PAS). ML 4.0 (BRK), 3.3 (GS).

CWCR	0.66	314	P	39	56.22	-0.3
BHPR	0.67	293	P	39	56.47	-0.3
MRCM	0.90	315	iPd	40	00.56	-0.5
			eS	40	13.97	
ORC	0.96	309	P	40	01.99	-0.2
BONR	1.03	333	iPc	40	03.53	0.1
TNP	1.12	20	iPd	40	05.25	0.4
MEMM	1.16	303	iPd	40	05.41	0.0
MMPM	1.20	299	ePd	40	05.56	-0.7
ISA	1.50	204	eP	40	10.58	-0.3
FRI	1.60	269	iPd	40	12.59	0.4
			iS	40	34.31	
GSC	1.88	157	ePd	40	16.09	-0.3
KVN	2.04	351	ePn	40	18.80	0.0
CMB	2.35	296	ePd	40	23.59	0.4
			eS	40	54.76	
PHAM	2.48	242	ePn	40	25.11	0.2
ABL	2.50	210	ePn	40	23.99	-1.5
PRI	2.54	250	eP	40	26.85	0.9
LLA	2.63	262	eP	40	29.33	2.2X
BCH	2.66	227	ePn	40	26.77	-0.9
SSK	2.82	180	(Pn)	40	30.47	0.5
SAO	3.01	266	ePn	40	32.03	-0.4
PRS	3.02	258	eP	40	33.97	1.3
ARN	3.07	277	ePn	40	33.28	-0.1
			eS	41	19.04	
MHC	3.15	277	ePc	40	36.79	2.1X
			eS	41	24.16	
PEC	3.17	172	eP	40	34.96	0.2
COE	3.17	275	(Pn)	40	35.59	0.8
ARUT	3.48	76	ePn	40	40.48	1.1
			ePg	40	48.99	
PLM	3.74	169	eP	40	43.22	0.2
			eS	41	41.10	
ORV	3.90	311	eP	40	46.41	1.2
NTYM	4.15	291	(P)	41	00.84	12.2X
GLA	4.62	148	ePn	40	54.96	-0.5
MSU	4.63	70	ePn	40	55.58	-0.1
			ePg	41	10.55	
DUG	4.97	49	ePg	41	17.56	17.1X
LBFM	5.39	324	ePn	41	05.55	-1.0
SRU	6.04	68	ePn	41	16.89	1.3
			ePg	41	36.69	
DAU	6.07	54	(Pn)	41	15.18	-1.0
EMUT	6.08	61	(Pn)	41	18.37	2.1X
HVU	6.09	37	ePn	41	16.40	0.2
			ePg	41	36.81	
PV09	6.95	75	(Pn)	41	28.92	0.4
			ePg	41	53.22	
PV10	7.00	76	(Pn)	41	29.67	0.4
			ePg	41	55.01	
PV08	7.34	75	(Pn)	41	33.94	-0.1
			ePg	42	00.45	
BW06	8.49	45	(Pn)	41	47.25	-2.8
YKA	25.56	3	eP	45	15.50	1.2
	0.9s		0.60nm		3.3mb	

S.D. = 0.9 on 37 of 42 obs.

& MAY 18, 1993 14h 53m 13.32s
37.233 N 117.829 W
DEPTH = 6.6km
CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. MD 3.3 (GM). 3.1 (PAS). ML 2.8 (GS).

CWCR	0.46	305	P	53	22.35	-0.3
BHPR	0.53	277	P	53	23.65	-0.3
CASR	0.67	301	P	53	26.35	-0.4
MRCM	0.69	309	iPc	53	26.80	-0.5
			S	53	36.55	
ORC	0.77	302	P	53	28.11	-0.7
BONR	0.81	333	ePd	53	29.08	-0.5
CLKR	0.87	295	P	53	29.80	-0.8
MCSM	0.95	297	P	53	31.48	-0.5
TNP	0.98	30	ePc	53	31.85	-0.5
MEMM	0.98	296	iPc	53	32.00	-0.3
			S	53	44.93	
MMPM	1.03	292	iPc	53	32.43	-0.8
			S	53	45.43	
VPEM	1.28	180	P	53	36.79	-0.7
WCHM	1.36	188	P	53	38.40	-0.6
NMC	1.39	183	P	53	39.43	0.2
WSHM	1.62	170	P	53	41.86	-0.6
ISA	1.65	199	ePn	53	41.93	-1.0
WBSM	1.71	189	P	53	44.56	0.6
KVN	1.83	353	ePd	53	45.11	-0.5
			S	54	11.99	
WOFM	1.84	203	P	53	47.82	2.1
WJPM	1.89	196	P	53	48.20	1.7
GSC	2.10	156	ePn	53	46.47	-3.0
CMB	2.18	292	ePn	53	50.13	-0.5
			S	54	20.62	
PARM	2.24	245	P	53	53.63	2.1
MCUM	2.33	289	P	53	55.41	2.6
BRMM	2.43	261	P	53	56.50	2.4
BMSM	2.44	257	P	53	55.99	1.6
PHAM	2.50	237	(Pn)	53	53.98	-1.1
MARC	2.54	209	P	53	59.02	3.3
ABL	2.63	206	ePn	53	57.77	0.6
			S	54	32.92	
BCH	2.74	222	ePn	53	57.74	-0.9
CMPM	2.78	274	P	54	03.52	4.4
SAO	2.93	262	eP	54	02.47	1.2
ARN	2.96	273	ePn	54	03.66	2.0
SSK	3.02	178	(Pn)	54	03.83	1.2
COE	3.07	272	(Pn)	54	04.70	1.6
JELM	3.21	266	P	54	06.63	1.4
PEC	3.38	171	ePn	54	06.63	-1.0
ARUT	3.53	80	ePn	54	08.21	-1.7
ORV	3.70	310	(Pn)	54	12.92	0.7
			Pg	54	20.64	
PLM	3.95	168	ePn	54	14.86	-1.0
MSU	4.65	72	(Pn)	54	25.48	-0.5
GLA	4.84	149	(Pn)	54	24.57	-3.9
PV09	6.99	77	(Pn)	54	59.05	0.0
PV10	7.05	78	(Pn)	55	05.37	5.6
PV08	7.38	77	(Pn)	55	05.40	0.9

45 obs. associated

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* MAY 18, 1993 15h 20m 42.63± 1.25s
32.087 S ±13.1km 70.545 W ±14.2km
DEPTH = 100.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)
MD 4.2 (SAN).

JACH	0.59	184	iP	21	00.03	0.5
			iS	21	12.29	
ROCH	0.97	204	iPd	21	03.56	0.3
			iS	21	18.31	
RTBS	1.02	66	iPd	21	05.60	2.1
PEL	1.06	186	iP+	21	04.03	0.0
			iS	21	19.35	
FCH	1.26	170	iPd	21	07.20	0.6
			iS	21	24.37	
SAN	1 37	184	iP	21	07.42	-0.2
			iS	21	25.50	
PCH	1.53	179	iP	21	09.71	0.0
			iS	21	29.77	
TACH	1.60	192	iP	21	10.11	-0.4
			iS	21	30.65	
LCCH	1.63	212	iP	21	11.31	0.4
			iS	21	31.88	
MDZ	1.64	119	iP	21	12.70	1.6
ZON	1.68	72	iPd	21	13.30	1.7
			eS	21	34.30	
CHCH	1.84	183	iP	21	13.17	-0.5
			iS	21	37.01	
LNV	2.00	201	iP	21	15.02	-0.7
			(S)	21	38.24	
RFA	3.19	148	iPc	21	30.80	-1.0
TCA	5.13	83	iPd	21	56.20	-2.3
CYA	5.48	50	eP	22	01.30	-2.1
			S	22	38.20	

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

MAY 18, 1993 15h 32m 24.02± 0.27s
9.836 N ± 4.4km 126.475 E ± 6.5km
DEPTH = 39.9km (7 depth phases)
5.0mb (34 obs.) 4.5Msz (3 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

PLP	1.98	312	ePd	32	58.00	2.3
CGP	2.23	232	eP	33	00.80	1.4
			iS	33	22.00	
MAP	2.50	281	eP	33	09.00	5.8X
DAV	2.87	198	eP	33	14.10	5.7X
CTB	3.45	221	iPd	33	21.00	4.3X
			eS	34	03.00	
PGP	6.52	304	eP	34	01.00	0.9
OVP	7.16	312	eP	34	09.20	0.3
MNI	8.50	191	eP	34	29.40	1.8
BCP	8.68	319	eP	34	35.00	4.7X
BAG	8.70	319	eP	34	30.90	0.4
SSE	21.72	348	Pd	37	15.00	1.3
	1.0s		32.00nm		4.7mb	
	Z 16s		0.90um		4.3MszX	
	N 12s		1.00um			
	E 10s		1.00um			
			S	41	12.00	

18d 15h

			sS	41	24.00	
MTN	23.00	168	eP	37	27.00	0.5
LEM	25.04	229	ePd	37	50.50	4.1X
LOE	25.18	290	eP	37	48.10	0.6
NST	26.32	285	eP	38	00.50	2.3
KMI	27.20	307	eP	38	05.50	-0.9
	1.0s		30.00nm			4.9mb
Z	20s		1.20um			4.5Msz
N	11s		0.30um			
E	12s		0.40um			
			pP	38	18.00	49km
			eS	43	06.00	
KHT	27.67	283	eP	38	10.00	-0.5
CHTO	28.09	292	eP	38	13.40	-0.9
	1.1s		15.61nm			4.6mb
WRA	30.59	165	P	38	35.30	-1.3
	0.5s		2.20nm			4.2mb
WB2	30.59	165	iPd	38	35.20	-1.4
	0.7s		5.00nm			4.4mb
BJI	31.44	345	eP	38	43.50	-0.4
	1.5s		57.00nm			5.2mb
Z	18s		0.59um			4.3Msz
			eS	44	00.00	
OIS	32.85	157	eP	39	02.00	5.6X
	0.3s		3.00nm			4.6mb
ASPA	34.08	168	iPd	39	06.10	-0.9
	0.4s		5.30nm			4.8mb
MEEK	37.05	192	eP	39	31.00	-1.2
YSS	39.54	17	eP	39	53.00	0.2
FORT	40.41	178	eP	40	00.00	-0.1
GUN	42.16	301	P	40	14.40	-0.6
PKI	42.46	300	P	40	16.40	-1.1
	0.6s		13.00nm			4.8mb
KKN	42.63	301	P	40	17.80	-1.0
	0.8s		20.00nm			4.9mb
MUN	42.72	193	eP	40	18 90	-0.2
	1.0s		66.00nm			5.3mb
DMN	42.73	300	P	40	18.60	-1.0
GKN	43.24	301	P	40	22.60	-1.0
CIT	43.34	348	eP	40	26 00	2.1
STK	43.93	161	iPc	40	28.50	-0.4
	1.7s		3.50nm			3.9mb X
ZAK	44.74	339	iPd	40	36.00	0.8
	1.2s		18.00nm			4.8mb
Z	12s		0.29um			4.4MszX
E	12s		0.19um			
			e	42	18.00	564kmX
IRK	45.99	341	ePc	40	45 00	-0.2
	1.7s		29.00nm			4.9mb
Z	14s		0.25um			4.3MszX
N	14s		0.21um			
E	16s		0.13um			
			e	40	52.00	23kmX
			e	41	15.90	
			e	41	25.00	
			e	42	39.00	
			LR	02	20.00	
ADE	46.04	166	e(P)	40	46.00	0.3
MOY	46.64	338	ePc	40	51.10	0.9
	1.6s		72.00nm			5.4mb
GBA	48.10	279	Pc	41	02.00	-0.2
	0.8s		11.00nm			4.9mb
BWA	48.69	156	eP	41	08.00	1.5
BOD	48.83	351	iPc	41	08.00	0.8
	1.5s		22.00nm			5.0mb
CAN	49.70	156	eP	41	14.80	0.5
TOO	50.41	160	iPd	41	20.10	0.4
	0.3s		15.00nm			5.5mb
YAK	52.14	2	eP	41	32.20	-0.2
	1.5s		39.00nm			5.2mb
			eS	48	55.00	
MGD	53.36	15	eP	41	39.00	-2.5
ELT	53.99	331	eP	41	45.00	-1.2
	0.9s		10.00nm			4.8mb
FRU	55.76	316	(P)	42	10.50	11.1X
			e	44	12.00	661kmX
OUE	58.82	299	eP	42	20.60	-0.8
TIK	61.76	1	iPc	42	39.00	-1.5
	1.6s		39 00nm			5.3mb
			i	42	50.00	37km
			e	43	27.00	
			e	51	00.00	
NRI	64.39	346	iPc	42	57.10	-0.9
	1.0s		29.00nm			5.3mb
			e	43	08.00	36km
MAIO	65.71	305	iPc	43	06.80	-0.4
ASH	66.78	307	eP	43	14.00	0.1
ILT	68.17	19	eP	43	22.50	0.5
SVE	68.68	327	ePc	43	25.00	-0.3
	1.8s		20.00nm			4.8mb
Z	18s		0.30um			4.6Msz
N	18s		0.10um			
E	18s		0.10um			
			e	43	47.70	88kmX
ARU	69.67	327	eP	43	30.00	-1.4
GRS	76.23	308	iPc	44	10.00	-0.6
	1.1s		40.00nm			5.3mb
CSY	76.82	187	eP	44	13.90	0.9
	0.6s		12.20nm			5.1mb
IMA	76.95	24	eP	44	16.09	2.1
	0.9s		1.79nm			4.1mb
SLKM	78.21	30	(P)	44	23.06	2.2
KIV	78.79	313	eP	44	24.50	-0.1
	1.0s		25.00nm			5.2mb
Z	16s		0.20um			4.5MszX
			e	44	38.10	47km
OBN	81.94	325	eP	44	40.00	-0.9
	1.5s		35.00nm			5.2mb
			e	44	50.00	32km
BALM	82.05	29	eP	44	42.57	1.1
INK	84.61	22	eP	44	57.00	2.7X
	1.0s		1.00nm			3.9mb X
MBC	86.09	13	eP	45	03.00	1.4
	1.0s		5.00nm			4.7mb
			pP	45	14.50	37km
KAF	86.10	332	iP	45	01.90	0.1
	0.9s		31.60nm			5.5mb
NUR	87.27	331	eP	45	07.80	0.3
UPP	90.81	331	iP	45	23.80	-0.4
DAG	91.22	352	eP	45	26.00	0.1
	0.9s		14.29nm			5.4mb
HFS	92.52	332	eP	45	31.10	-1.1
	1.2s		43.60nm			5.8mb
Z	17s		88.00um			7.3MszX
			LR	23	52.00	
NB2	93.23	334	P	45	34.80	-0.7
	0.9s		10.20nm			5.3mb
NAO	93.50	334	P	45	34.82	-1.9
YKA	94.07	24	eP	45	39.50	0.2
	0.8s		1.80nm			4.6mb
GEC2	97.16	322	P	45	53.70	-0.1
	0.8s		2.71nm			4.8mb
			e	46	06.60	42km
			e	46	11 00	

S.D. = 1.1 on 65 of 73 obs.

& MAY 18, 1993 15h 54m 34.78s
37.185 N 117.760 W
DEPTH = 0.2km
CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. MD 3.2 (GM), 3.0 (PAS).
ML 3.5 (BRK).

CWCR	0.53	306	P	54	45.59	0.1
BHPR	0.59	281	P	54	46.63	0.0
BCKR	0.71	317	P	54	48.74	-0.1
CASR	0.74	302	P	54	49.61	0.0
MRCM	0.77	309	iPc	54	50.05	-0.1
			eS	55	00.27	
BONR	0.88	331	eP	54	52.27	-0.1
CLKR	0.94	296	P	54	53.15	-0.4
TNP	0.99	26	eP	54	55.01	0.3
			eS	55	08.11	
MCSM	1.02	298	P	54	54.72	-0.6
MEMM	1.05	297	ePc	54	55.16	-0.4
			eS	55	08.62	
MMPM	1.10	293	ePc	54	55.61	-0.9
			eS	55	09.38	
WLHM	1.12	203	P	54	55 86	-1.1
TPNV	1.23	101	ePc	54	59.00	0.3
VPEM	1.23	182	P	54	58.25	-0.5
RCWM	1.24	176	P	54	58.00	-0.7
WCHM	1.32	191	P	55	00.40	0.0
NMC	1.34	185	P	55	00.73	0.1
WORM	1.54	195	P	55	03.55	0.0
WSHM	1.56	172	P	55	03.37	-0.6
FRI	1.57	264	eP	55	03.52	-0.4
			eS	55	23.57	
ISA	1.62	201	eP	55	04.08	-0.7
WBSM	1.67	191	P	55	06.17	0.5
WJPM	1.86	198	P	55	09.43	1.1
KVN	1.88	352	ePn	55	08.39	-0.3
			eS	55	36 13	
GSC	2.03	157	ePn	55	09.64	-1.1
MSTM	2.22	290	P	55	15.56	2.1
CMB	2.25	293	eP	55	15.37	1.5
			eS	55	44.12	
PARM	2.28	247	P	55	15.98	1.8
MRFM	2.43	297	P	55	19.64	3.1
BRMM	2.48	263	P	55	20.54	3.5
PHAM	2.52	238	ePn	55	17.14	-0.5
MARC	2.53	211	P	55	21.51	3.7
PRI	2.56	247	eP	55	21.31	3.0
			eS	55	54.16	
ABL	2.61	207	ePn	55	19.39	0.2
			eS	55	56.09	
LLA	2.61	258	eP	55	20.81	1.8
			eS	55	56.27	
BCH	2.74	224	ePn	55	22.26	1.3
SAO	2.98	263	eP	55	26.79	2.6
			eS	56	07.72	
ARN	3.01	274	ePn	55	26.08	1.4
			eS	56	03.80	
MHC	3.10	274	ePc	55	28.36	2.3
			eS	56	14.11	
PEC	3.32	171	(P)	55	31.25	2.1
ARUT	3.49	79	ePn	55	30.84	-0.8
			ePg	55	41.50	

41 obs. associated

? MAY 18, 1993 16h 14m 16.40± 0.83s
23.985 S ±10.6km 179.374 E ±17.8km
DEPTH = 500.0km (geophysicist)
4.5mb (3 obs.)
SOUTH OF FIJI ISLANDS (171)

URZ	14.36	187	eP	17	18.30	-2.0
	0.3s		19.00nm			5.1mb X
NOZ	14.63	184	eP	17	24.10	1.0
MNG	16.90	190	eP	17	45.00	-0.8
			eS	20	34.10	
THZ	18.53	195	eP	18	02.90	1.3
KHZ	19.01	193	eP	18	06.50	0.3
LTZ	19.65	196	eP	18	12.10	-0.3
STK	34.16	248	eP	20	21.90	1.6
	0.5s		2.60nm			4.0mb
ASPA	41.46	261	iPd	21	20.30	0.0
	0.6s		21.10nm			4.8mb
WB2	41.82	266	iPd	21	22.60	-0.5
	0.3s		43.90nm			5.5mb X
WRA	41.83	266	P	21	23.00	-0.2
	0.4s		7.00nm			4.5mb
CHTO	89.17	291	eP	26	17.70	-1.7
NB2	142.07	351	PKP	32	40.80	-11.2X
	0.7s		1.60nm			
HFS	142.51	348	ePKP	32	41.70	-11.0X
	0.3s		5.50nm			
KSP	150.16	338	iPKPd	33	05.40	0.1
CLL	150.76	342	iPKPd	33	06.50	0.3
	0.7s		9.00nm			
BRG	150.88	341	iPKP	33	06.90	0.5
GEC2	152.74	339	PKP	33	09.70	0.4
	0.8s		0.96nm			
			e	33	14.60	

S.D. = 1.1 on 15 of 17 obs.

% MAY 18, 1993 16h 46m 03.49± 0.84s
26.318 S ± 6.7km 27.619 E ±10.1km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.6 (PRE).

PRY	0.62	192	eP	46	15.30	-0.6
			S	46	21.50	
KSR	0.79	305	eP	46	19.50	0.0
			S	46	29.50	
SLR	0.83	46	eP	46	20.00	-0.2
			S	46	29.50	
SEK	2.00	180	iPc	46	39.20	0.8
			S	47	04.20	
BLF	3.06	204	eP	46	53.50	0.0

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

& MAY 18, 1993 17h 09m 05.88s
34.290 N 117.481 W
DEPTH = 10.2km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 3.7 (PAS), 3.6 (GS).
Felt (IV) at Phelan; (III) at
Cedar Pines Park, Lytle Creek
and Rialto; (II) at Highland.

Felt as far as Pasadena.

SSK	0.19	246	iPd	09 10.05	-0.2
PEC	0.48	146	iPd	09 14.65	-1.0
PLM	1.07	151	iPd	09 24.78	-1.3
GSC	1.15	29	iPd	09 26.78	-0.7
ABL	1.54	292	eP	09 32.95	-0.7
			S	09 55.32	
ISA	1.59	330	ePnd	09 33.03	-1.2
BCH	2.32	293	eP	09 44.54	-0.3
GLA	2.53	118	eP	09 46.20	-1.5
TPNV	2.84	20	ePn	09 51.08	-1.1
			eS	10 36.33	
PHAM	2.85	304	ePn	09 52.85	0.7
MRCM	3.48	346	ePn	10 01.17	-0.1
MMPM	3.54	340	ePn	10 02.17	-0.2
MEMM	3.57	341	ePn	10 02.25	-0.1
			eS	10 57.13	
BONR	3.72	350	ePn	10 04.20	-0.6
TNP	3.79	3	ePn	10 05.23	-0.5
CMB	4.41	329	eP	10 13.72	-0.7
ARN	4.49	314	(P)	10 14.60	-0.9
KVN	4.78	354	(Pn)	10 17.87	-1.9
ARUT	4.79	42	ePn	10 18.26	-1.6
MSU	6 01	44	(P)	10 51.20	14.1
SRU	7.37	47	(Pn)	10 58.36	2.1
ALQ	9.11	83	(P)	11 18.42	-2.1

22 abs. associated

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* MAY 18, 1993 17h 39m 46.79± 0.91s
3.753 S ± 8.0km 135.428 E ±17.9km
DEPTH = 33.0km (normal)
4.8mb (6 abs.) 4.3Msz (2 obs.)
IRIAN JAYA REGION, INDONESIA (196)

SWI	5.06	304	ePd	41 01.50	-0.9
			iS	42 02.50	
MTN	9.98	205	eP	42 11.00	-0.1
	0.4s	167.00nm		6.7mb X	
			eS	43 55.00	
WB2	16.13	184	eP	43 24.00	-8.8X
	0.6s	6.70nm		3.9mb	
			eS	46 15.70	
OIS	17.19	167	eP	43 50.20	4.0X
	0.7s	17.00nm		4.3mb	
			i	43 58.80	
			eS	46 56.70	
ASPA	19.85	184	iPd	44 17.90	-0.2
	0.6s	130.20nm		5.4mb	
			eS	47 55.90	
SSE	37.22	340	Pd	46 57.50	0.5
	1.0s	13 00nm		4.7mb	
	Z 20s	0.50um		4.3Msz	
MAT	40.17	3	eP	47 21.00	-0.6
KMI	42.79	314	Pc	47 44.00	0.5
	1.8s	40.00nm		4.8mb	
			pP	47 56.00	44kmX
BJI	47.03	340	eP	48 16.50	-0.5
	1.0s	22.00nm		5.1mb	
	Z 20s	0.30um		4.3Msz	
GUN	57.13	307	P	49 33.00	-0.4
PKI	57.37	306	P	49 37.20	2.2
KKN	57.56	306	P	49 35.80	-0.4
DMN	57.63	306	P	49 36.80	0.1
GKN	58.17	306	P	49 40.20	-0.2
CNCB	149.14	132	PKP	59 35.00	4.2X
ZOBO	149.37	131	PKP	59 26.80	-4.3X

S.D. = 0.9 on 12 of 16 obs.

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* MAY 18, 1993 18h 01m 37.11± 1.03s
6 055 S ± 7.9km 130.020 E ±13.4km
DEPTH = 210 6 ± 13.7 km
4.3mb (2 obs.)
BANDA SEA (2B0)

SWI	5.30	14	iPc	02 56.50	0.2
			iS	03 55.00	
KUG	7.54	237	eP	03 25.70	0.4
			eS	04 48.50	
WB2	14.43	163	iPd	04 51.70	-1.5
			eS	07 25.40	
OIS	17.16	148	iPd	05 33.70	7.8X
	0.5s	11.00nm		4.5mb	
			eS	08 36.70	
ASPA	17.90	168	iPc	05 34.50	0.6
	0.5s	71.70nm		5.4mb X	
			eS	08 46.20	
STK	27.88	159	eP	07 10.40	1.0
	0.4s	1.40nm		4.0mb	
			e	07 49.20	
MUN	28.84	205	eP	07 18.00	0.0
			e	08 05.00	
GUN	54.35	311	P	10 44.80	-0.1
KKN	54.74	310	P	10 47.40	-0.1
GKN	55.34	310	P	10 51.20	-0.6

S.D. = 0.9 on 9 of 10 obs.

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* MAY 18, 1993 18h 49m 56.44± 1.40s
31.211 N ±16.1km 131.532 E ± 9.8km
DEPTH = 52.2 ± 8.8 km
4.2mb (7 abs.)
KYUSHU, JAPAN (235)

KAGJ	0.55	268	iPd	50 08.50	0.0
			S	50 17.40	
KUMJ	1.45	336	iP+	50 21.30	0.7
			eS	50 39.50	
SHNJ	2.93	353	P	50 41.00	-0.6
TKSJ	3.49	37	P	50 49.90	0.4
YONJ	4.28	22	P	51 00.00	-0.7
WKYJ	4.55	48	P	51 03.10	-1.4
MAT	7.69	44	(P)	51 49.00	0.6
			eS	54 18.00	
SSE	8.87	272	Pc	52 06.00	1.4
	1.0s	21.00nm		5.1mb	
	Z 20s	0.60um		8.0MszX	
BJI	15.27	309	eP	53 34.00	4.0X
	1.0s	11.00nm		4.0mb	
	Z 16s	0.88um		4.3Msz	
	E 14s	0.67um			
CHTO	31.88	255	eP	56 18.30	-0.7
GUN	39.63	277	P	57 25.20	-0.1
PKI	40.13	277	P	57 29.00	-0.3
KKN	40.18	277	P	57 28.60	-1.0
	0.4s	6.00nm		4.8mb	
DMN	40.38	277	P	57 31.80	0.5
GKN	40.66	278	P	57 33.40	-0.1
INK	63.18	25	eP	00 23.00	2.1
MBC	64.31	15	eP	00 29.00	0.8
	0.9s	4.00nm		4.4mb	
YKA	72.80	26	eP	01 21.90	1.0
	0.6s	0.40nm		3.5mb	
HFS	75.75	333	eP	01 36.90	-1.1
	0.4s	0.70nm		4.0mb	
NB2	76.12	334	P	01 38.70	-1.4
	0.6s	1.00nm		3.9mb	

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

& MAY 18, 1993 18h 51m 05.85s
59.822 N 152.099 W
DEPTH = 67.4km
SOUTHERN ALASKA (2)
<AEIC>. ML 2.7 (AEIC).

XLV	0.42	152	eP	51 17.11	-0.7
			eS	51 26.23	
CNPM	0.53	124	iP	51 18.31	-0.6
			eS	51 28.39	
INE	0.54	297	eP	51 18.27	-0.9
			eS	51 28.86	
INW	0.58	296	eP	51 18.69	-0.8
			eS	51 29.37	
OPT	0.60	254	eP	51 18.96	-0.7
BRLK	0.62	95	eP	51 19.12	-0.8
			eS	51 30.16	
RDT	0.77	349	eP	51 21.02	-0.7
AUE	0.80	235	eP	51 21.25	-0.7
			eS	51 32.72	
AUL	0.81	238	eP	51 21.56	-0.5
AUI	0.83	235	eP	51 21.62	-0.8
			eS	51 33.65	
NKA	1.02	25	eP	51 25.42	0.7
PDB	1.06	269	iP	51 23.94	-1.3
			eS	51 38.36	
SLKM	1.16	53	eP	51 25.49	-1.2
CDD	1.19	222	eP	51 25.97	-1.1
			eS	51 41.28	
SYI	1.23	187	eP	51 26.49	-0.9
MCNL	1.31	242	eP	51 26.84	-1.7
			eS	51 43.46	
SEW	1.36	77	eP	51 27.84	-1.4
SPU	1.36	1	eP	51 28.60	-0.8
CKL	1.38	355	iP	51 29.08	-0.6
			eS	51 47.27	
CKT	1.38	358	eP	51 29.00	-0.7
			eS	51 47.61	
CKN	1.41	358	eP	51 29.65	-0.3
CPAM	1.44	359	eP	51 29.98	-0.4
			eS	51 49.28	
CP2	1.45	357	eP	51 30.43	-0.2
CRP	1.45	359	eP	51 30.24	-0.4
BGL	1.45	354	eP	51 30.26	-0.4
CGLM	1.49	2	eP	51 31.02	-0.1
MPA	1.52	63	eP	51 30.19	-1.3
SUA	1.78	21	eP	51 34.84	-0.2
PTE	1.85	54	eP	51 34.63	-1.3
PMS	1.90	40	P	51 36.00	-0.7
PWA	2.13	30	P	51 39.20	-0.7
SVW	2.17	308	P	51 38.70	-1.7
SKT	2.18	7	eP	51 39.53	-1.1
GHO	2.50	37	eP	51 43.56	-1.5
SML	2.72	41	eP	51 46.19	-1.9
HIN	2.86	76	eP	51 46.72	-3.4
SCM	3.09	47	eP	51 51.74	-1.6
VLZ	3.14	63	eP	51 51.36	-2.6
KLU	3.47	58	eP	51 56.08	-2.6
SGAM	3.51	76	eP	51 56.81	-2.4

40 abs. associated

MAY 18, 1993 19h 35m 12.45± 0.50s
36.328 N ± 9.0km 70.724 E ± 8.5km
DEPTH = 33.0km (normal)
4.2mb (7 abs.)
HINDU KUSH REGION, AFGHANISTAN (718)

QUE	6.89	208	eP	36 53.70	-0.2
			eS	38 09.00	
MAIO	9.07	273	ePn	37 23.00	-1.1
			eSn	38 56.00	
NDI	9.39	142	eP	37 30.50	2.1
			eS	39 07.00	
GKN	14.40	121	P	38 35.40	-0.6
	0.4s	9.00nm		4.7mb	
DMN	14.97	121	P	38 43.20	-0.4
KKN	14.98	121	P	38 43.20	-0.4
PKI	15.20	121	P	38 46.30	-0.4
	0.5s	12.00nm		4.4mb	
GUN	15.33	119	P	38 47.80	-0.5
GBA	23.42	163	P	40 20.00	0.6
KAF	37.65	327	eP	42 27.40	1.6
NUR	37.84	324	iP	42 29.10	1.8
	0.4s	2.50nm		4.4mb	
HFS	43.06	322	eP	43 10.30	-0.2
	0.4s	2.90nm		4.3mb	
NB2	44.38	323	P	43 20.00	-1.3
	0.4s	1.00nm		4.0mb	
MBC	67.52	3	eP	46 07.00	0.2
IMA	72.35	17	eP	46 35.59	-1.1
	0.9s	1.25nm		3.9mb	
INK	74.11	9	eP	46 48.50	1.9
YKA	81.43	2	eP	47 25.20	-1.8
	0.5s	0.40nm		3.7mb	

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

? MAY 18, 1993 19h 37m 03.04± 1.99s
34.573 N ±27.6km 137.839 E ±38.4km
DEPTH = 33.0km (normal)
4.2mb (4 obs.)
NEAR S. COAST OF HONSHU, JAPAN (230)

MAT	1.99	9	eP	37 35.00	0.0
			(S)	37 59.00	
YKA	67.37	29	eP	47 56.70	0.0
	0.4s	0.20nm		3.6mb	
KAF	69.14	332	iP	48 07.40	-0.3
	0.4s	1.40nm		4.4mb	
HFS	75.09	335	eP	48 43.10	0.0
	0.5s	1.30nm		4.2mb	
NB2	75.29	336	P	48 44.60	0.3
	0.8s	2.10nm		4.2mb	

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

% MAY 18, 1993 20h 05m 33.15± 0.91s
40.274 N ± 7.4km 21.656 E ± 7.5km
DEPTH = 10.0km (geophysicist)
GREECE (364)

FNA	0.55	337	iPg	05 44.38	0.0
			eSg	05 53.02	
LIT	0.66	105	ePg	05 45.02	-1.3
			eSg	05 55.26	

18d 20h

GRG	0.89	39	ePg	05	50.10	-0.1
			eSg	06	03.50	
OHR	1.06	322	ePg	05	52.80	-0.4
			e	06	10.50	
KNT	1.30	46	ePb	05	57.86	0.7
AGG	1.35	157	ePb	05	58.74	0.7
			eSb	06	18.62	
SOH	1.40	67	ePb	05	59.18	0.4
			eSb	06	17.26	
OUR	1.78	87	ePb	06	04.22	0.1

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

& MAY 18, 1993 20h 17m 33.66s
60.170 N 152.411 W
DEPTH = 83.2km
3.1mb (1 obs.)
SOUTHERN ALASKA (2)
<AEIC>.

RSO	0.34	330	iPc	17	46.27	-0.7
			eS	17	56.31	
RS2	0.34	330	P	17	46.40	-0.6
INE	0.34	252	iPc	17	46.06	-0.9
			eS	17	56.55	
INW	0.38	254	iPc	17	46.31	-0.8
RDN	0 39	333	iPc	17	46.57	-0.6
			eS	17	56.64	
XLV	0.80	154	iPd	17	49.82	-1.0
			eS	18	03.43	
NKA	0.82	45	iPc	17	52.10	1.1
BRLK	0 87	117	ePc	17	50.81	-0.9
			eS	18	03.88	
CNPM	0.88	137	iPd	17	50.88	-0.9
			eS	18	04.72	
AUL	0.94	214	ePd	17	51.83	-0.7
AUE	0.95	211	iPd	17	51.72	-0.8
PDB	0.97	248	iPd	17	51.71	-1.1
			eS	18	06.00	
AUI	0.98	212	ePd	17	52.06	-0.9
SPU	1.03	10	iPc	17	52.77	-0.8
			eS	18	08.15	
CKL	1.03	2	iPc	17	52.83	-0.8
CKT	1 04	5	iPc	17	52.85	-0.9
CKN	1.06	6	iPc	17	53.35	-0.6
BGL	1.10	1	iPc	17	53.76	-0.7
CPAM	1.10	7	iPc	17	53.79	-0.7
CP2	1.10	4	iPc	17	53.65	-1.0
CRP	1.11	6	iPc	17	53.41	-1.2
			eS	18	08.38	
SLKM	1.14	72	ePc	17	53.40	-1.5
CGLM	1.16	10	ePc	17	54.50	-0.7
MCNL	1.39	226	iPc	17	56.72	-1.3
			eS	18	14.32	
CDD	1.39	207	iPd	17	56.88	-1.3
SEW	1.48	91	ePc	17	57.29	-2.0
			eS	18	16.80	
SUA	1.53	31	iPc	17	59.36	-0.7
			eS	18	19.93	
MPA	1.55	77	iPc	17	58.61	-1.5
SYI	1.57	180	iPd	17	59.49	-0.8
			eS	18	20.34	
PMS	1.77	51	P	18	02.20	-0.9
PTE	1.81	66	iPc	18	02.00	-1.6
			eS	18	24.83	
SVW	1.84	302	iPd	18	01.91	-2.2
SKT	1.87	13	iPc	18	03.10	-1.3
PWA	1.93	39	P	18	04.50	-0.8
			S	18	32.40	
PLRM	2.15	47	iPc	18	06.42	-1.7
PMR	2.15	47	ePc	18	06.40	-1.8
GHO	2.34	45	iPc	18	09.18	-1.7
KDC	2.43	181	iPd	18	09.08	-2.9
SML	2.58	49	iPc	18	12.23	-1.9
HIN	2.95	83	eP	18	15.42	-3.9
SCM	2.99	54	ePc	18	17.53	-2.3
HUR	3.11	24	eP	18	21.44	-0.1
VLZ	3.15	70	eP	18	18.94	-2.9
MID	3.16	101	P	18	20.70	-1.3
TTA	3.26	330	iPd	18	21.26	-2.3
CVA	3.33	81	eP	18	21.84	-2.6
KLU	3.44	65	iPc	18	23.28	-2.9
			eS	19	01.47	
TRF	3.44	16	eP	18	25.05	-1.2
SGAM	3.60	82	eP	18	25.23	-3.0
RND	3.66	26	eP	18	26.16	-3.0
RAGM	3.86	83	eP	18	27.74	-4.1
TZL	3.88	58	eP	18	29.79	-2.3
MCK	3.93	23	eP	18	31.25	-1.6
SDG	4.07	51	ePc	18	32.36	-2.4
PAX	4.35	47	ePc	18	36.61	-2.2
GLB	4.40	69	iPc	18	35.89	-3.6
CROM	4.63	79	eP	18	40.34	-2.4
WRH	4.76	23	eP	18	42.31	-2.1
TGL	4.78	79	eP	18	42.61	-2.2
SNH	4.78	86	eP	18	42.58	-2.2
MLY	4.94	8	eP	18	45.42	-1.5
HDA	4.95	29	eP	18	44.92	-2.2
CYK	4.97	87	eP	18	45.48	-1.7
CCB	4.98	23	eP	18	44.95	-2.4
BALM	5.04	76	eP	18	44.33	-4.0
MDM	5.18	20	eP	18	48.71	-1.6
FBA	5.21	22	P	18	48.50	-2.1
YAH	5.31	83	eP	18	49.79	-2.6
GLM	5.36	23	eP	18	50.26	-2.6
CTGM	5.52	77	eP	18	52.70	-2.5
IMA	5.95	355	eP	18	58.31	-2.8
INK	11.53	37	eP	20	17.00	0.3
YKA	18.11	66	eP	21	38.70	-2.0
	0.6s		0.70nm			3.1mb
MBC	19.75	23	eP	22	08.00	9.2

74 obs. associoted

% MAY 18, 1993 20h 26m 45.36± 2.47s
45.479 N ±14.0km 26.228 E ±10.0km
DEPTH = 74.6 ± 26.0 km
ROMANIA (358)

MLR	0.20	274	iPc	26	57.40	0.6
CVO	0.35	354	iPc	26	57.50	-0.1
ISR	0.41	147	iPd	26	58.00	0.0
VRI	0.52	42	iPc	26	58.50	-0.5
BRD	0.58	86	iPc	26	59.50	0.0
MTUR	0.86	253	eP	27	02.50	-0.2
PPE	1.22	52	eP	27	07.50	0.3
CFR	1.39	102	eP	27	15.00	5.6X

S.D. = 0.5 on 7 of 8 obs.

? MAY 18, 1993 20h 35m 20.47± 0.96s
26.300 S ± 7.5km 27.598 E ±10 9km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)

PRY	0.64	190	eP	35	32.50	-0.7
			S	35	39.00	
KSR	0.77	304	eP	35	36.00	0.1
			S	35	46.00	
SLR	0.83	48	eP	35	37.00	-0.2
			S	35	48.50	
SEK	2.02	179	iPc	35	56.50	0.8
			S	36	21.00	

S.D. = 1.1 on 4 of 4 obs.

% MAY 18, 1993 20h 55m 40.96± 2.15s
44.987 S ±11.2km 167.555 E ±16.3km
DEPTH = 162.7 ± 17.5 km
SOUTH ISLAND, NEW ZEALAND (162)

MSZ	0.41	39	P	56	03.20	0.3
			S	56	17.50	
BCZ	1.04	169	Pc	56	07.20	-0.3
			S	56	23.90	
MHZ	1.23	94	Pd	56	09.30	0.0
CMCZ	1.23	98	Pd	56	09.30	0.0
			S	56	26.50	
SBCZ	1.25	95	Pd	56	09.40	-0.1
LRCZ	1.27	94	Pd	56	09.70	-0.1
LSCZ	1.29	96	P	56	09.70	-0.2
TUZ	1.75	124	Pc	56	14.90	0.5
			S	56	36.00	
ODZ	2.19	93	Pd	56	19.60	0.1
			S	56	45.10	
LTZ	4.06	59	eP	56	42.40	-0.6
DSZ	4.48	45	P	56	48.30	-0.2
THZ	5.06	52	eP	56	56.40	0.3
QRZ	5.53	43	eP	57	02.70	0.3

S.D. = 0.3 on 13 of 13 obs.

MAY 18, 1993 20h 57m 47.90± 0.39s
37.124 N ± 3.1km 117.771 W ± 3.7km
DEPTH = 5.0km (geophysicist)
CALIFORNIA-NEVADA BORDER REGION (40)
MD 3.1 (GM), 3.0 (PAS). ML 3.5 (BRK). 3.0 (GS).

CWCR	0.57	311	P	57	58.99	-0.2
BCKR	0.75	320	P	58	02.41	-0.4
CASR	0.77	306	P	58	02.75	-0.7
MRCM	0.80	313	iPc	58	03.43	-0.7
BONR	0.93	333	iPc	58	06.23	-0.1
CLKR	0.96	299	P	58	05.98	-0.9
TNP	1.05	24	eP	58	09.31	1.0
WLHM	1.06	204	P	58	07.11	-1.5
MEMM	1.08	301	iPc	58	08.16	-0.4
MMPM	1.11	296	iPc	58	08.45	-1.0
VPEM	1.17	182	P	58	10.07	-0.3
TPNV	1.23	98	ePnc	58	12.29	0.9
			eS	58	30.61	
WCHM	1.26	191	P	58	11.09	-0.9
NMC	1.28	185	P	58	12.61	0.4
WSHM	1.51	171	P	58	15.07	-0.6
FRI	1.56	266	eP	58	15.69	-0.6
			eS	58	34.64	
ISA	1.56	201	ePn	58	15.15	-1.3
WBSM	1.61	191	P	58	17.28	0.0
WJPM	1.80	199	P	58	20.65	0.7
KVN	1.94	352	eP	58	24.40	2.4X
GSC	1.98	156	ePn	58	21.32	-1.2
PKEM	2.16	241	ePn	58	18.07	-7.0X
PDRM	2.23	250	P	58	27.18	1.1
MSTM	2.23	291	P	58	28.12	2.0X
PARM	2.24	248	P	58	27.21	0.9
CMB	2.27	294	ePc	58	25.99	-0.7
			eS	58	56.49	
YEG	2.44	227	P	58	31.32	2.2X
MRFM	2.45	298	P	58	31.87	2.6X
BRMM	2.46	264	P	58	30.94	1.6
PHAM	2.48	240	ePn	58	28.75	-0.8
PRI	2.53	248	eP	58	31.13	0.8
			eS	59	03.75	
ABL	2.56	208	ePn	58	31.08	0.2
HVC	2.56	254	P	58	34.52	3.7X
LLA	2.59	260	eP	58	32.95	1.7
			eS	59	08.14	
BCH	2.69	225	ePn	58	33.10	0.3
CMPM	2.83	276	P	58	39.99	5.3X
LTR	2.84	266	P	58	36.40	1.6
SSK	2.91	179	(P)	58	37.74	1.9
BVYM	2.94	264	P	58	38.72	2.5X
SAO	2.97	264	ePn	58	36.45	-0.1
			eS	59	20.48	
PRS	3.00	256	eP	58	37.05	0.1
ARN	3.01	275	eP	58	36.49	-0.7
MHC	3.10	275	ePc	58	39.67	1.2
			eS	59	24.09	
PEC	3.26	171	eP	58	39.70	-1.1
ARUT	3.51	78	ePn	58	44.27	-0.1
PLM	3.83	169	ePn	58	51.02	1.9X
SRU	6.05	69	ePg	59	41.08	20.7X

S.D. = 1.0 on 37 of 47 obs.

• MAY 18, 1993 21h 04m 49.20± 0.76s
15.320 S ±15.3km 70.844 W ±11.8km
DEPTH = 180.9 ± 9.4 km
4.3mb (3 obs.)
SOUTHERN PERU (117)

ARE	1.30	209	iPc	05	19.50	-0.5
			iS	05	43.00	
ZOBO	2.78	110	iPd	05	37.40	1.1
			i	06	16.00	
LPB	2.90	115	iPd	05	39.00	1.4
	1.1s		1113.92nm			
			i	06	16.00	
CNCB	3.13	119	iPd	05	39.50	-1.0
NNA	6.71	299	iPc	06	25.50	-0.9
	0.5s		21.13nm			4.7mb X
			eS	07	22.50	
YJA	8.49	144	iPc	06	49.00	-1.3
HJA	9.38	148	iP	07	02.80	1.3
ALQ	60.35	327	eP	14	41.00	-0.5
	1.0s		2.50nm			4.0mb
GAC	60.88	356	eP	14	44.00	-0.6
EEO	62.11	354	eP	14	54.00	1.1
LIC	68.61	77	P	15	33.00	-2.0
ULM	68.90	343	ePc	15	38.50	2.4
KIC	68.92	77	P	15	35.00	-1.9
	0.3s		7.00nm			4.9mb
FCC	76.23	348	eP	16	24.00	5.2X
YKA	84.78	341	eP	17	03.70	-0.1
	0.7s		3.70nm			4.3mb
WB2	137.08	216	ePKP	23	53.10	0.0

```
       0.5s      2.50nm
WRA   137.09 216 PKP    23 54.20    1.0
       0.6s      0.90nm
MAT   146.61 315 ePKP   24 10.00    0.6
GBA   149.25  89 PKP    24 19.00    5.0X
     S.D. = 1.4  on  17 of  19 obs.
-------------------------------------
% MAY 18, 1993  21h 38m 21.51± 0.82s
   41.757 N ±11.8km   13.601 E ± 6.3km
   DEPTH = 10.0km  (geophysicist)
 SOUTHERN ITALY                  (390)

SDI     0.17 107 Pd     38 25.30   -0.1
                eSg     38 28.80
AOU     0.61 346 P      38 33.60   -0.3
                eSg     38 44.00
DUI     0.65  98 P      38 34.70    0.1
RDP     0.66 270 P      38 35.70    1.0
                eSg     38 43.00
RMP     0.67 275 P      38 33.60   -1.3
                eSg     38 43.10
MNS     0.93 313 P      38 39.90    0.6
                eSg     38 54.00
     S.D. = 1.0  on   6 of   6 obs.
-------------------------------------
? MAY 18, 1993  22h 25m 10.42± 0.93s
   18.514 S ±16.2km  166.783 E ±13.3km
   DEPTH = 33.0km  (normal)
   3.8mb (  1 obs.)
 VANUATU ISLANDS REGION          (185)

BKM     1.62  59 iPd    25 38.50    1.4
                iS      26 01.50
PVC     1.65  62 iP     25 36.00   -1.4
                iS      25 58.20
DZM     3.55 185 iPc    26 04.80    0.1
                iS      26 47.70
WRA    30.64 262 P      31 24.50    0.3
       0.4s      0.70nm          3.8mb
ASPA   31.06 255 iPc    31 27.40   -0.5
       0.4s     13.20nm          5.1mb X
     S.D. = 1.5  on   5 of   5 obs.
-------------------------------------
• MAY 18, 1993  22h 31m 07.28± 1.10s
   16.550 N ±17.7km   94.533 E ±11.1km
   DEPTH = 33.0km  (normal)
   3.9mb (  2 obs.)
 NEAR SOUTH COAST OF MYANMAR     (298)

KHT     4.29 114 eP     32 11.50   -0.4
CHTO    4.77  61 ePg    32 19.00    0.3
                eSg     33 05.00
PKI    13.84 324 P      34 22.70   -1.1
GUN    13.85 326 P      34 24.20    0.3
DMN    14.04 323 P      34 26.60    0.3
KKN    14.08 324 P      34 27.00    0.2
GKN    14.61 323 P      34 33.30   -0.4
GEC2   71.73 317 P      42 29.50    1.2
       0.7s      0.65nm          3.7mb
                e       42 33.20
NB2    72.45 330 P      42 31.80   -0.4
       0.7s      1.10nm          4.0mb
     S.D. = 0.7  on   9 of   9 obs.
-------------------------------------
? MAY 18, 1993  22h 54m 19.36± 1.36s
   16.022 N ±20.4km   95.724 W ±12.4km
   DEPTH = 33.0km  (normal)
   3.8mb (  1 obs.)
 OAXACA, MEXICO                  ( 60)

OXX     1.42 318 iP     54 41.50   -1.8
                iS      54 59.50
SCX     3.05  76 (P)    54 55.00  -11.4X
                iS      55 12.50
IISM    3.34 332 eP     55 11.50    0.9
                (S)     55 54.50
TPX     3.52 108 (P)    55 12.50   -0.6
ACX     4.06 283 eP     55 21.75    1.0
PPM     4.10 318 (P)    55 28.50    6.7X
                iS      56 05.00
IIA     4.18 318 (P)    55 29.50    7.0X
III     4.28 304 eP     55 17.50   -6.5X
UNM     4.66 315 (P)    55 35.50    6.0X
MRX     6.37 306 (P)    55 56.50    3.2X
ALO    21.16 335 (P)    59 03.00   -1.2
       0.9s      4.20nm          3.8mb
                e       59 10.50

EEO    33.53  21 eP     01 01.00    2.9X
GAC    34.11  26 eP     01 04.00    0.9
JAQ    40.81  18 eP     02 00.00    0.7
     S.D. = 1.5  on   7 of  14 obs.
-------------------------------------
   MAY 18, 1993  23h 10m 44.03± 0.49s
   40.365 N ± 6.9km   25.712 E ± 4.1km
   DEPTH = 10.0km  (geophysicist)
 AEGEAN SEA                      (365)
     ML 3.2 (ISK).

ALN     0.59  25 iPg    10 56.14    0.2
                iSg     11 04.30
EZN     0.72 139 iPg    10 58.10    0.0
                iSg     11 07.60
KGT     1.22  85 iPg    11 05.50   -1.2
                iSg     11 19.00
OUR     1.32 269 ePb    11 08.02   -0.4
                eSb     11 26.98
PAIG    1.62 255 ePb    11 11.54   -1.1
EDC     1.64  90 iPn    11 13.50    0.4
BNT     1.69  90 iPn    11 13.00   -0.7
SRS     1.78 296 ePb    11 16.50    1.5
                eSb     11 41.14
KCT     2.03  92 ePn    11 19.00    0.4
DMK     2.12  46 ePn    11 20.70    0.7
CTT     2.21  68 iPn    11 20.60   -0.6
KNT     2.28 291 iPn    11 21.93   -0.4
IZM     2.30 148 ePn    11 24.00    1.3
     S.D. = 0.9  on  13 of  13 obs.
-------------------------------------
% MAY 18, 1993  23h 12m 47.47± 1.91s
   31.352 S ±11.6km   68.785 W ±15.7km
   DEPTH = 121.9 ± 19.0 km
 SAN JUAN PROVINCE, ARGENTINA    (137)

RTCB    0.13 186 ePc    13 04.50   -0.3
                S       13 16.00
RTLL    0.27  85 iPd    13 04.50   -0.6
RTBS    0.65 241 ePc    13 07.60    0.8
RTPR    2.22  62 e(P)c  13 24.90    0.7
                S       13 51.10
MRA     2.82 113 ePd    13 32.70    0.6
RFA     3.42 176 ePc    13 39.70   -0.5
                (S)     14 18.50
TCA     3.59  91 iPd    13 42.20   -0.2
                S       14 21.80
CYA     3 89  43 eP     13 46.00   -0.5
                S       14 29.00
     S.D. = 0.8  on   8 of   8 obs.
-------------------------------------
& MAY 18, 1993  23h 48m 53.91s
   37.064 N          117.777 W
   DEPTH =   3.0km
   5.0mb ( 46 obs.)  4.7Msz (  4 obs.)
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      <GM-P>. MD 5.0 (GM), 5.0 (PAS).
      ML 5.2 (BRK), 4.8 (GS). Felt (V)
      ot Ridgecrest, Colifornio ond
      (IV) ot Big Pine, Bishop, Lone
      Pine ond Mojove, Colifornio.
      Felt in Fresno, Inyo, Kern, Son
      Bernordino, Tulore ond Tuolumne
      Counties, Colifornio.

BHPR    0.61 293 P      49 05.97   -0.2
CASR    0.80 310 P      49 09.56   -0.4
MRCM    0.84 316 iPc    49 10.27   -0.4
BONR    0.98 335 iPc    49 13.00   -0.4
WLHM    1.01 205 P      49 13.22   -0.6
MCSM    1.07 304 P      49 14.53   -0.5
MEMM    1.10 303 iPc    49 15.03   -0.2
TNP     1.11  23 iPd    49 15.94    0.4
VPEM    1.11 182 P      49 15.27   -0.3
RCWM    1.12 175 P      49 15.18   -0.4
MMPM    1.14 299 iPc    49 15.30   -0.8
WCHM    1.20 192 P      49 16.65   -0.5
NMC     1.22 185 P      49 17.11   -0.3
TPNV    1.23  95 ePnc   49 18.54    1.0
                eS      49 37.96
WSHM    1.45 171 P      49 21.03   -0.1
ISA     1.51 202 ePnd   49 21.86   -0.1
                eS      49 41.88
WBSM    1.55 191 P      49 22.62   -0.1
GSC     1.93 156 eP     49 27.32   -0.7
TEJ     1.97 202 P      49 30.72    2.1
KVN     2.00 353 iPd    49 29.20    0.0

PHBM    2.02 247 P      49 31.04    1.7
BMTC    2.04 199 P      49 30.04    0.4
PWMM    2.05 253 P      49 31.38    1.7
PKEM    2.13 243 eP     49 31.98    1.2
PARM    2.22 249 P      49 33.11    1.0
CMB     2.29 296 iPc    49 32.87   -0.3
                eS      50 04.97
PCRM    2.35 246 P      49 34.52    0.5
PSRM    2.35 240 P      49 35.14    1.1
CTM     2.35 242 P      49 35.14    0.9
PMRM    2.36 238 P      49 36.06    1.9
YEG     2.40 228 P      49 35.75    0.9
GHC     2.41 240 P      49 36.27    1.3
PTRM    2.42 235 P      49 36.93    1.9
PRCM    2.42 251 P      49 35.62    0.5
PHAM    2.44 241 eP     49 35.54    0.1
PSTM    2.48 244 P      49 36.82    1.0
PSMM    2.48 247 P      49 36.56    0.6
PMCM    2.48 238 P      49 37.72    1.8
ABL     2.50 208 ePn    49 36.03   -0.3
WKR     2.53 241 P      49 38.75    2.1
PTV     2.55 249 P      49 37.56    0.6
MOP     2.57 252 P      49 38.30    1.1
MNHM    2.64 295 P      49 38.38    0.2
BCH     2.65 226 eP     49 37.81   -0.5
PSAM    2.71 248 P      49 40.18    1.0
RYS     2.73 208 P      49 43.16    3.5
PMGM    2.75 234 P      49 41.24    1.4
ADWM    2.79 300 P      49 41.13    0.7
PCL     2.81 271 P      49 44.13    3.5
PANM    2.83 244 P      49 41.82    0.9
SSK     2.85 179 ePn    49 41.12   -0.2
SCCM    2.87 223 P      49 42.34    0.8
ALAM    2.93 302 P      49 42.95    0.7
SAO     2.95 265 ePnc   49 41.86   -0.8
                eS      50 22.09
AASM    2.97 298 P      49 43.50    0.7
ARJM    2.99 304 P      49 43.86    0.7
ARN     3.01 277 eP     49 43.08   -0.4
MHC     3.10 276 ePc    49 44.54   -0.2
                eS      50 27.34
COE     3.12 275 P      49 45.33    0.4
BCWM    3.14 257 P      49 44.88   -0.5
HCOM    3.15 268 P      49 52.77    7.4
AHRM    3.16 305 P      49 45.14   -0.3
JRRM    3.16 271 P      49 46.52    1.0
SOS     3.32 273 P      49 47.54   -0.4
HMR     3.38 290 eP     49 49.72    1.1
AARM    3.38 312 P      49 49.14    0.4
CCYM    3.47 279 P      49 49.74   -0.2
STAN    3.53 277 ePc    49 50.25   -0.5
ARUT    3.53  77 eP     49 49.09   -1.8
JEGM    3.76 278 eP     49 54.84    0.7
CPMM    3.79 285 P      49 56.11    1.7
NTYM    4.09 290 eP     50 00.13    1.4
NOLM    4.10 285 P      50 00.33    1.5
NCFM    4.17 289 P      50 00.58    0.7
LCMM    4.25 318 P      50 01.82    0.6
MIN     4.44 319 ePc    50 04.01    0.2
                eS      51 15.96
LMEM    4.56 321 eP     50 06.59    1.0
LDBM    4.60 318 P      50 07.09    1.1
MSU     4.67  70 P      50 06.12   -1.1
GLA     4.68 148 eP     50 04.48   -2.6
DUG     4.99  50 ePn    50 11.47   -0.1
                eS      51 32.23
LBFM    5.34 325 eP     50 17.07    0.4
KPPM    5.46 309 P      50 11.21   -7.2
LGPM    5.50 316 P      50 17.08   -1.8
KMPM    5.98 306 eP     50 25.96    0.4
SRU     6.08  68 eP     50 27.91    0.9
DAU     6.10  55 ePn    50 28.23    0.8
                eS      52 09.35
HVU     6.10  38 ePn    50 26.54   -0.7
                eS      52 03.84
FHC     6.11 310 eP     50 27.57    0.2
EMUT    6.12  61 ePn    50 28.31    0.7
PV09    6.99  76 ePn    50 40.43    0.3
                ePg     51 06.24
PV10    7.05  77 ePn    50 40.85    0.0
PV08    7.38  75 eP     50 44.91   -0.7
TUC     7.46 127 eP     50 45.88   -0.5
                eS      52 48.55
TCO     7.61 339 P      50 57.39    8.8
HSO     7.62 329 P      50 50.94    2.3
CROR    8.27 344 P      51 00.80    3.1
BW06    8.51  45 eP     51 01.67    0.5
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18d 23h

MCMT	8.60	24	iPd	51	05.10	2.6	BOD	75.90	334	eP	00	41.10	-2.1	OBN	85.61	14	eP	01	34.00	-0.7
MPOR	8.62	331	P	51	05.23	2.6		1.1s	10.00nm			4.8mb			1 9s	126.00nm			5.8mb	
VGB	8.74	346	eP	51	12.04	7.9	UPP	76.67	21	iP	00	46.60	-0.8		Z 16s	0.60um			5.1MszX	
GT2	8.76	339	P	51	08.70	4.2	KAF	77.00	16	eP	00	48.40	-0.9		N 18s	0.60um				
LNOR	8.81	358	P	51	07.03	1.9	NUR	78.01	18	eP	00	54.20	-0.6			e	01	38.00		
VLL	8.89	342	P	51	10.53	4.2	DOU	79.44	34	P	01	03.80	0.9	ZAK	85.71	335	eP	01	35.00	-0.2
GL2	9.18	347	P	51	14.28	4.1	PUL	79.98	16	(P)	01	06.00	0.4		1.5s	10.00nm			4.8mb	
BGMT	9.23	26	ePd	51	13.80	2.6	WLF	80.44	33	P	01	09.00	0.8	ZST	86.08	28	eP	01	37.30	0.1
ALQ	9.41	100	eP	51	13.29	-0.4	HYF	80.58	37	eP	01	08.40	-0.7	SOP	86.29	29	eP	01	38.00	-0.2
RSW	9.42	352	P	51	15.45	1.9	LSF	80.77	38	eP	01	09.10	-1.0	SPC	86.40	26	eP	01	40.20	1.2
WIW	9.43	354	P	51	16.82	3.2		1.3s	12.25nm			4.8mb		SVE	86.48	1	ePc	01	39.00	0.1
ASR	9.52	344	P	51	18.88	3.9	TCF	81.08	37	eP	01	10.70	-1.0	SRO	86.85	28	eP	01	41.20	0.2
MTMW	9.55	341	P	51	17.75	2.4		1.2s	12.20nm			4.8mb		UZH	87.59	25	eP	01	43.50	-1.0
KMOR	9.58	335	P	51	19.22	3.5	SSF	81.14	36	eP	01	11.20	-0.8		1.6s	42.00nm			5.5mb	
LRM	9.62	23	ePd	51	17.70	1.2		1.2s	16.65nm			5.0mb		SKO	92.97	29	iP	02	09.20	-0.6
MDW	9.66	352	P	51	19.04	2.3	LOR	81.16	36	eP	01	11.40	-0.7	OHR	93.45	30	eP	02	10.70	-1.4
MXC	9.69	350	P	51	19.74	2.5		1.1s	20.50nm			5.1mb		VAY	93.97	29	iP	02	13.70	-0.7
SHW	9.71	341	ePn	51	18.87	1.2		Z 18s	0.20um			4.5Msz		CER	144.95	97	ePKP	08	30.00	-4.2
FL2	9.74	341	P	51	21.13	3.0	BGF	81.19	37	eP	01	11.20	-1.1	SUR	145.84	95	ePKP	08	40.00	4.0
WAH2	9.78	353	P	51	21.79	3.4		1.2s	29.15nm			5.2mb		PRY	148.99	81	ePKP	08	44.00	2.9
RVW	9.81	339	P	51	23.52	4.7	AVF	81.26	37	eP	01	11.50	-1.1	SLR	149.06	78	ePKP	08	47.00	5.8
LCCM	9.82	25	ePd	51	20.90	1.8		1.4s	21.80nm			5.0mb			1.3s	48.08nm				
ERK	9.84	341	P	51	22.48	3.0	MAF	81.30	37	eP	01	12.00	-0.9	SEK	149.74	83	ePKP	08	42.00	-0.2
TDL	9.85	342	P	51	24.14	4.5		1.1s	15.15nm			5.0mb			0 7s	10.27nm				
NAC	9.93	348	P	51	26.62	6.1	LFF	81.30	39	eP	01	12.30	-0.6		229 obs. assaciated					
MEMT	9.95	29	ePd	51	23.70	2.7		1.2s	24.10nm			5.1mb		----------						
GOL	10 09	71	eP	51	24.05	1.0	LBF	81.42	36	eP	01	12.50	-1.0	?	MAY 18, 1993 23h 52m 17.75± 1.68s					
LON	10.13	344	ePn	51	24.41	1.0		1.3s	14.80nm			4.9mb			31.144 S ±24.0km 69.235 W ±16.8km					
GLD	10.21	71	ePn	51	24.53	-0.1	RJF	81.43	38	eP	01	12.60	-1.0		DEPTH = 120.0km (geophysicist)					
			eLg	54	14.30			1.4s	24.40nm			5.1mb			SAN JUAN PROVINCE, ARGENTINA (137)					
BMW	10.24	338	ePn	51	25.73	0.8		Z 19s	0.22um			4.5Msz								
SAW	10.70	354	P	51	33.06	1.9	SMF	81.60	36	eP	01	13.30	-1.1	RTCB	0.51	133	ePd	52	35.80	-0.3
WTW	10.75	352	P	51	35.99	4.2		1.3s	22.40nm			5.1mb					S	52	48.00	
DPW	10.80	358	eP	51	33.22	0.6	LPO	81.71	39	eP	01	14.30	-0.7	RTBS	0.55	200	iPd	52	36.40	0.2
NEW	11.20	2	eP	51	38.63	0.6		1.2s	22.30nm			5.1mb					S	52	49.80	
MCW	12.18	344	eP	51	54.49	3.2	HAU	81.76	34	eP	01	14.50	-0.8	RTLL	0.68	106	ePc	52	37.00	-0.3
RSSD	12.59	52	eP	51	55.68	-1.3		1.5s	30.30nm			5.2mb					S	52	51.00	
LTX	14.10	119	eP	52	18.15	1.3		Z 20s	0.40um			4.8Msz		CFA	0.97	119	e(P)	52	40.00	0.2
ACO	14.92	86	iPd	52	34.60	7.1	CDF	81.87	33	eP	01	15.00	-0.9				S	52	55.50	
MEO	15.72	93	iPc	52	39.00	1.1		1.2s	11.30nm			4.9mb		RTPR	2.49	71	ePc	52	58.10	0.1
FNO	16.56	90	iPc	52	53.50	4.8	CAF	81.98	38	eP	01	15.60	-0.9				S	53	43.50	
MIAR	19.78	90	eP	53	27.61	-0.5		1 0s	9.00nm			4.8mb		MRA	3.26	114	ePc	53	08.20	0.1
	1.1s	48.50nm				4.7mb	CLL	82.00	29	iPc	01	16.40	0.0		S.D = 0.3 on 6 of 6 obs.					
ULM	20.51	43	ePd	53	37.30	1.6		1.2s	13.00nm			4.9mb		----------						
OLY	21.25	86	eP	53	43.09	-0.3	BSF	82.09	34	eP	01	16.20	-0.9		MAY 18, 1993 23h 57m 40.87± 0.14s					
FVM	21.69	79	eP	53	47.72	-0.1		1.3s	24.20nm			5.2mb			37.084 N ± 1.9km 117.746 W ± 1.5km					
	1.5s	120.85nm				5.1mb	GRF	82.56	31	ePc	01	20.20	0.8		DEPTH = 5.0km (geophysicist)					
ELC	22.72	81	eP	53	58.09	0.0		1.0s	11.00nm			5.0mb			4.5mb (20 obs.)					
FCC	26.63	28	ePc	54	39.50	4.3		Z 20s	0.50um			4.9Msz			CALIFORNIA-NEVADA BORDER REGION (40)					
GOGA	28.17	87	(P)	54	49.35	-0.2			e	01	26.50				MD 4.4 (GM), 4.3 (PAS). ML 4.7					
	1.1s	13.04nm				4.7mb	BRG	82.70	28	iP	01	20.00	-0.1		(BRK), 4.5 (GS). Felt in Inyo					
BALM	28.56	335	eP	54	51.86	-1.0		1.7s	34.00nm			5.3mb			ond Tuolumne Counties,					
PRM	28.86	85	eP	54	54.96	-0.7			i	01	26.50				California.					
NAV	29.35	78	eP	54	59.71	-0.4	KSP	83.61	27	eP	01	25.00	0.3							
JSC	29.68	84	eP	55	02.56	-0.6	PRU	83.64	29	iPd	01	24.50	-0.4	MRCM	0.84	314	iPc	57	56.77	-1.0
EEO	30.11	59	eP	55	08.00	1.1		1.7s	61.70nm			5.6mb		CLKR	1.00	301	P	57	59.38	-1.1
KLU	30.12	333	eP	55	07.23	0.3			i	01	30.10			TNP	1.08	23	iPd	58	02.52	0.7
CEH	30.99	80	eP	55	12.77	-1.9	WET	83.66	30	iPc	01	25.50	0.4	MEMM	1.11	302	iPc	58	01.39	-0.8
	0.8s	22.99nm				5.1mb	FUR	83.78	32	eP	01	26.00	0.3	VPEM	1.13	183	P	58	01.53	-1.1
SLKM	31.18	329	eP	55	14.92	-1.2		1.3s	53.00nm			5.6mb		TPNV	1.21	96	iPc	58	05.00	1.1
PMR	31.38	331	eP	55	18.38	0.6	LPL	83.79	36	eP	01	25.90	-0.2				eSg	58	25.05	
	1.3s	49.65nm				5.3mb		1.1s	11.00nm			5.0mb		NMC	1.24	186	P	58	03.50	-1.0
CRP	32.39	329	eP	55	25.51	-1.4	LPG	83.82	36	eP	01	26.20	-0.1	ISA	1.53	203	ePnc	58	08.10	-0.9
INK	32.50	349	ePc	55	28.30	0.7		1.3s	23.10nm			5.2mb					eS	58	27.71	
	1.4s	27.00nm				5.0mb	KHC	83.95	30	P	01	27.00	0.4	FRI	1.57	267	P	58	09.89	0.4
GAC	32.57	61	eP	55	28.00	-0.4			e	01	31.40			GSC	1.93	157	ePn	58	13.56	-1.3
JAQ	33.34	46	eP	55	33.00	-2.0	GEC2	84.23	30	e(P)	01	27.90	-0.2				ePg	58	16.65	
SVW	33.76	328	eP	55	38.22	-0.4		1.1s	12.50nm			5.1mb		KVN	1.98	352	iPnd	58	15.64	0.0
	1.2s	46.59nm				5.3mb	GEC2	84.23	30	P	01	33.10	5.0				ePg	58	18.03	
TTA	34.81	330	eP	55	47.37	-0.3		1.1s	7.30nm			4.8mb		SNDC	1.99	193	P	58	16.78	1.1
IMA	35.69	336	eP	55	54.98	-0.2			e	01	39.00			PHBM	2.06	247	P	58	17.21	0.7
	1.6s	20.60nm				4.7mb			e	10	13.10			PWMM	2.08	253	P	58	17.62	0.7
MBC	39.28	359	eP	56	25.00	-0.1			e	10	19.20			ARVC	2.14	205	P	58	19.55	1.8X
	1.1s	9.00nm				4.3mb	MOTA	84.35	32	iPd	01	28.60	-0.1	PKEM	2.16	243	eP	58	17.56	-0.4
FRB	39.66	32	eP	56	27.50	-0.9		1.4s	26.70nm			5.3mb					i	58	18.87	
	1.0s	10.00nm				4.4mb	MOS	85.21	14	eP	01	32.00	-0.6	PARM	2.25	249	P	58	19.75	0.4
LMN	40.01	60	eP	56	33.50	1.9	FRF	85.22	37	eP	01	32.10	-0.9	CMB	2.30	295	ePc	58	19.07	-1.1
ZOBO	70.71	129	P	00	12.10	-2.0		1.2s	17.25nm			5.1mb					eS	58	50.77	
	Z 24s	0.20um				4.3MszX	LMR	85.32	37	eP	01	32.80	-0.7	PCRM	2.38	246	P	58	21.27	0.1
		S	08	58.20				1.4s	34.85nm			5.4mb		PSRM	2.38	240	P	58	22.04	0.8
		LR	25	24.00			MOY	85.34	337	eP	01	34.00	0.6	CTM	2.38	242	P	58	21.01	-0.3
LPB	70.93	129	eP	00	19.00	3.8	SBF	85.37	36	eP	01	32.80	-1.0	PMRM	2.39	238	P	58	21.85	0.5
CNCB	71.21	129	P	00	13.00	-4.1		1.2s	18.45nm			5.2mb		FTC	2.40	203	P	58	23.95	2.5X
NRI	72.15	351	ePc	00	21.00	-0.3	OJC	85.38	26	eP	01	33.30	-0.3	YEG	2.43	228	P	58	23.29	1.3
	1.8s	22.00nm				5.0mb			e	01	38.80			GHC	2.45	240	P	58	22.39	0.3
NB2	73.78	23	P	00	29.70	-1.4	KBA	85.50	31	iPd	01	33.90	-0.6	PTRM	2.45	235	P	58	22.88	0.7
	1.5s	20.60nm				5.0mb		1.5s	25.00nm			5.2mb		MCUM	2.45	292	P	58	21.53	-0.6

PRCM	2.45	251	P	58	22.30	0.0	PV10	7.02	77	ePn	59	27.50	0.4	WORM	1.45	192	P	12	43.30	-1.6
TMB	2.46	217	P	58	24.60	2.2X				ePg	59	51.87		ISA	1.53	199	ePn	12	44.09	-2.0
PHAM	2.47	241	ePn	58	22.54	0.0	PV08	7.35	76	ePn	59	33.15	1.3				eS	13	04.13	
BRMM	2.48	265	P	58	22.46	-0.1				eS	01	31.14		WBSM	1.59	188	P	12	45.81	-1.2
MRFM	2.49	299	P	58	22.05	-0.7				ePg	59	59.75		WOFM	1.72	204	P	12	47.61	-1.2
PSMM	2.51	247	P	58	23.36	0.3	TUC	7.45	128	eP	59	32.14	-0.8	WJPM	1.77	196	P	12	49.29	-0.3
PSTM	2.51	243	P	58	23.00	0.0	MCMT	8.58	24	ePd	59	51.70	2.9X	KVN	1.94	355	ePn	12	52.10	0.0
PMCM	2.51	238	P	58	23.85	0.8	LRM	9.59	23	eP	00	05.30	2.5X				ePg	12	53.42	
WKR	2.56	241	P	58	24.37	0.6	ACO	14.89	86	iPd	01	20.60	6.7X				eS	13	20.55	
PTV	2.58	249	P	58	24.20	0.1	ULM	20.48	43	ePd	02	23.20	1.1	GSC	2.00	154	ePn	12	52.14	-0.8
BCH	2.68	226	ePn	58	25.14	-0.4	FVM	21.66	79	eP	02	34.47	0.2				ePg	12	54.21	
			eS	58	59.49			1.2s		31.47nm			4.6mb	ARVC	2.13	202	P	12	56.09	1.4
PSAM	2.74	248	P	58	26.80	0.5	YKA	25.51	3	eP	03	10.80	-0.7	MSTM	2.17	292	P	12	57.29	2.1
PKM	2.76	218	P	58	27.96	1.2		0.9s		3.20nm			4.0mb	CMB	2.20	295	ePn	12	55.14	-0.6
RYS	2.76	209	P	58	30.71	3.9X	FCC	26.60	28	eP	03	26.50	4.9X				ePg	12	57.62	
PMGM	2.78	234	P	58	26.86	-0.1	EEO	30.08	59	eP	03	57.50	4.3X				eS	13	26.07	
ADWM	2.81	300	P	58	27.20	-0.1	INK	32.49	349	eP	04	14.50	0.4	MCUM	2.35	292	P	12	57.91	0.1
AODM	2.81	304	P	58	27.09	-0.3		1.3s		5.00nm			4.3mb	BMSM	2.39	260	P	12	59.72	1.2
CMPM	2.86	277	P	58	28.80	0.8	JAO	33.31	46	eP	04	19.50	-1.9	ABL	2.51	206	ePn	12	59.00	-1.3
PANM	2.86	244	P	58	28.32	0.3	MBC	39.26	359	eP	05	12.00	0.5				ePg	13	01.70	
SSK	2.87	179	ePn	58	28.17	-0.1		1.3s		5.00nm			4.0mb	MNHM	2.56	295	P	13	04.46	3.7
			eS	59	11.39		KAF	76.97	16	eP	09	34.60	-1.1	BCH	2.63	224	ePnc	13	01.03	-0.9
SHG	2.90	258	P	58	27.42	-1.1	NUR	77.98	18	eP	09	40.00	-1.3	CMPM	2.76	276	P	13	06.78	3.0
ASMM	2.90	308	P	58	28.42	-0.3	LSF	80.74	38	eP	09	56.50	-0.1	LTR	2.76	266	P	13	05.49	1.7
ALAM	2.94	301	P	58	29.23	0.1		0.8s		3.35nm			4.4mb	SSK	2.90	177	(Pn)	13	06.43	0.6
SAO	2.98	265	ePn	58	28.53	-1.2	TCF	81.04	37	eP	09	58.10	-0.1				ePg	13	10.16	
			eP*	58	34.25			0.9s		5.40nm			4.6mb	ARN	2.94	276	eP	13	07.16	0.9
			ePg	58	40.03		SSF	81.11	36	eP	09	58.30	-0.2	ARUT	3.59	78	(Pn)	13	16.95	1.4
			eS	59	15.98			0.8s		2.95nm			4.4mb	ORV	3.76	312	ePn	13	18.62	0.8
AASM	2.98	298	P	58	29.82	0.1	LOR	81.13	36	eP	09	58.50	-0.1	MSU	4.72	71	(Pn)	13	33.24	1.5
ARJM	3.00	303	P	58	33.95	3.9X		0.8s		5.90nm			4.7mb				ePg	13	44.33	
MHC	3.12	276	ePc	58	32.49	0.7	BGF	81.16	37	eP	09	58.50	-0.2		34 obs. ossociated					
			eS	59	15.74			0.9s		6.70nm			4.7mb							
COE	3.14	274	P	58	32.26	0.3	AVF	81.23	37	eP	09	58.70	-0.4	% MAY 19, 1993 00h 53m 56.35± 0.65s						
AFDM	3.16	307	P	58	31.81	-0.4		1.0s		7.60nm			4.7mb	44.509 N ± 6.2km 7.273 E ± 6.2km						
AHRM	3.17	305	P	58	37.14	4.8X	MAF	81.27	37	eP	09	59.40	0.1	DEPTH = 10.0km (geophysicist)						
JSTM	3.24	273	P	58	33.75	0.4		0.7s		3.65nm			4.5mb	NORTHERN ITALY (545)						
APRM	3.28	304	P	58	39.59	5.7X	LFF	81.27	39	eP	09	59.70	0.4	ML 1.9 (GEN).						
AMC	3.28	273	P	58	34.27	0.3		0.8s		5.10nm			4.6mb							
AFRM	3.32	302	P	58	40.31	5.8X	LPO	81.68	39	eP	10	01.50	0.0	PZZ	0.12	268	P	53	59.76	0.2
ALNM	3.35	304	P	58	40.82	5.9X		0.7s		3.00nm			4.5mb				S	54	01.68	
JRGM	3.37	270	P	58	35.49	0.2	HAU	81.73	34	eP	10	01.50	-0.2	ENR	0.30	159	P	54	02.46	-0.2
AARM	3.39	311	P	58	42.18	6.6X		0.8s		2.95nm			4.4mb				S	54	06.21	
HMR	3.39	290	(Pn)	58	32.92	-2.6X	CDF	81.84	33	eP	10	02.20	-0.2	BHB	0.33	359	P	54	03.19	-0.1
			eP*	58	37.98			0.6s		1.10nm			4.1mb				S	54	07.43	
			ePg	58	43.89		CAF	81.94	39	eP	10	02.80	-0.1	ROB	0.48	116	P	54	06.15	0.1
CRPM	3.41	285	P	58	37.61	1.8X		0.8s		4.15nm			4.6mb				S	54	12.46	
CSVM	3.48	284	P	58	38.29	1.6X	CLL	81.97	29	iP	10	03.00	0.2	RRL	0.54	320	P	54	07.15	-0.2
CCYM	3.50	279	P	58	37.50	0.5	BSF	82.06	34	eP	10	03.10	-0.4				S	54	13.99	
ARUT	3.50	77	ePn	58	36.92	-0.3		0.9s		5.10nm			4.6mb	PCP	0.91	87	P	54	13.93	0.1
			eP*	58	45.00		GRF	82.53	31	eP	10	06.20	0.3				S	54	25.43	
STAN	3.55	276	eP	58	38.15	0.4				e	10	11.00		S.D. = 0.2 on 6 of 6 obs.						
CMCM	3 59	283	P	58	44.16	5.8X	PRU	83.61	29	eP	10	10.80	-0.6							
CVPM	3.65	284	P	58	40.40	1.2				e	10	15.50		? MAY 19, 1993 01h 07m 02.79± 0.76s						
BKS	3.66	284	ePc	58	37.84	-1.5	LPL	83.76	36	eP	10	12.90	0.4	37.256 N ± 9.1km 29.109 E ± 5.8km						
			eS	59	32.49			0.8s		3.65nm			4.7mb	DEPTH = 10.0km (geophysicist)						
KPK	3.75	313	P	58	48.56	7.8X	LPG	83.79	36	eP	10	12.60	-0.1	TURKEY (366)						
JEGM	3.79	278	ePn	58	39.41	-1.7		0.7s		2.10nm			4.5mb	ML 3.1 (ISK).						
			ePg	58	51.50		KHC	83.92	30	eP	10	13.10	0.1							
OBHM	3.89	312	P	58	42.43	-0.2	GEC2	84.20	30	e(P)	10	14.30	-0.2	YER	0.67	260	iPg	07	16.00	-0.2
LOC	4.09	287	P	58	45.00	-0.3		1.1s		5.60nm			4.7mb				iSg	07	29.00	
NTYM	4.11	290	ePn	58	46.63	1.0	ZST	86.05	28	e(P)	10	24.10	0.5	ELL	0.82	128	ePg	07	18.60	-0.1
NCFM	4.19	289	P	58	47.97	1.1	SPC	86.37	26	eP	10	25.90	0.4	CIN	0.88	293	eP	07	20.00	0.3
LHKM	4.34	322	P	59	00.22	11.0X	BUL	146.21	69	iPKPd	17	22.80	-0.6	KHL	1.11	17	ePn	07	23.50	-0.2
LSLM	4.47	320	P	58	51.29	0.4		S.D. = 0.7 on 106 of 131 obs.						BCK	1.20	80	ePn	07	25.40	0.2
LMEM	4.56	320	ePn	58	53.93	1.6X								S.D. = 0.3 on 5 of 5 obs.						
			ePg	59	06.60		& MAY 19, 1993 00h 12m 18.02s													
MSU	4.64	70	P	58	53.81	0.3	37.114 N 117.867 W							? MAY 19, 1993 01h 44m 02.15± 0.77s						
GLA	4.68	148	ePn	58	52.20	-1.7	DEPTH = 5.3km							37.255 N ± 9.2km 29.047 E ± 5.7km						
			eS	59	37.65		CALIFORNIA-NEVADA BORDER REGION (40)							DEPTH = 10.0km (geophysicist)						
DUG	4.96	50	ePn	58	58.24	0 4	<GM-P>. MD 3.1 (GM), 3.0 (PAS).							TURKEY (366)						
			eS	00	18.71									ML 2.9 (ISK).						
			ePg	59	14.56		CWCR	0.52	317	P	12	24.80	-3.6							
WDC	5.12	314	ePc	58	59.74	-0.3	BHPR	0.53	291	P	12	28.34	-0.3	YER	0.62	259	iPg	44	15.00	0.3
			eS	00	21.49		CASR	0.71	310	P	12	31.88	-0.4				iSg	44	27.00	
LBFM	5.34	324	ePn	59	03.55	0 2	CLKR	0.90	302	P	12	35.13	-0.8	CIN	0.84	295	ePg	44	18.00	-0.3
			ePg	59	20.38		BONR	0.91	338	eP	12	35.37	-0.7				iSg	44	31.00	
SRU	6.04	68	ePn	59	15 49	2.2X				eS	12	52.99		ELL	0.86	126	ePg	44	18.60	-0.1
			ePg	59	34.97		MCSM	0.99	303	P	12	36.86	-0.5	KHL	1.13	19	ePn	44	23.50	0.1
DAU	6.06	55	ePn	59	15.73	2.1X	MEMM	1.02	303	ePc	12	37.32	-0.3	BCK	1.25	80	ePn	44	25.40	0.1
HVU	6.07	38	ePnc	59	14.44	0.9				eS	12	50.86		S.D. = 0.3 on 5 of 5 obs.						
			ePg	59	36.18		WLHM	1.02	201	P	12	35.88	-2.2							
EMUT	6.08	61	ePn	59	16.05	2.1X	TNP	1.10	28	iPd	12	38.18	-1.0	& MAY 19, 1993 01h 52m 50.40s						
			eSg	00	55.91					eS	12	52.24		35.710 N 90.380 W						
			Pg	59	36.41		RCWM	1.17	171	P	12	38.04	-2.4	DEPTH = 5.0km (geophysicist)						
PV09	6.96	76	(Pn)	59	27.48	1.1	WCHM	1.24	188	P	12	39.27	-2.4	ARKANSAS (502)						
			Pg	59	51.86		NMC	1.27	181	P	12	40.13	-1.9	<SLM-P>. MD 2.7 (SLM). Felt (IV)						

19d 01h

at Riverdale and (III) at Lepanto.

OLY	0.91	257	ePd	53 08.37	0.1
			eS	53 21.97	
MFTN	0.92	60	ePc	53 07.11	-1.3
			eS	53 21.40	
GRT	0.95	54	ePc	53 07.87	-1.1
			eS	53 20.34	
LDMO	0.96	43	eP	53 08.50	-0.7
			eS	53 21.15	
BBTN	1.01	48	ePd	53 08.22	-1.7
			eS	53 21.66	
OGTN	1.01	45	ePc	53 08.29	-1.7
ACTN	1.08	53	ePc	53 10.12	-1.0
			eS	53 24.94	
NMMO	1.10	37	ePc	53 10.77	-0.8
ELC	1.83	30	eP	53 22.27	-0.4
			eS	53 45.07	
FVM	2.27	359	ePn	53 29.23	0.1
			ePg	53 31.02	
			eS	53 58.75	
MIAR	2.87	247	ePn	53 37.21	-0.4
			ePg	53 43.47	
			eS	54 21.24	

11 obs. associated

? MAY 19, 1993 03h 07m 09.16± 3.29s
31.239 S ±74.6km 69.070 W ±29.0km
DEPTH = 120.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTCB	0.34	137	eP	07 26.50	-0.1
			S	07 39.00	
ZON	0.45	133	iPd	07 27.40	0.3
			eS	07 39.40	
RTLL	0.52	100	iPc	07 27.50	-0.1
			S	07 40.00	
CFA	0.80	118	iPd	07 29.50	-0.2
			S	07 44.20	
TCA	3.84	93	ePc	08 07.50	0.1
			S	09 50.70	

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

& MAY 19, 1993 03h 17m 48.28s
37.137 N 117.783 W
DEPTH = 2.3km
CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. MD 3.6 (GM). ML 3.9 (BRk). 3.5 (GS).

BHPR	0.59	286	P	17 59.86	-0.1
CASR	0.75	306	P	18 03.04	-0.3
BONR	0.91	333	ePnd	18 06.10	-0.6
MCSM	1.03	300	P	18 08.09	-0.6
TNP	1.04	25	ePd	18 08.91	0.1
MEMM	1.06	300	iPnc	18 08.54	-0.4
			eS	18 21.92	
WCHM	1.27	191	P	18 12.52	-0.3
WSHM	1.52	171	P	18 16.46	-0.1
FRI	1.55	265	iP	18 16.68	-0.2
			eS	18 35.12	
ISA	1.57	201	eP	18 16.93	-0.4
WBSM	1.62	190	P	18 19.09	0.9
KVN	1.93	353	eP	18 21.87	-0.7
			eS	18 50.84	
GSC	2.00	156	ePd	18 22.89	-0.6
			eS	18 55.05	
PHBM	2.05	245	P	18 26.02	1.9
PKEM	2.16	241	ePn	18 26.90	1.2
			eS	18 54.70	
CMB	2.25	294	ePc	18 27.90	0.7
			eS	18 57.53	
PCRM	2.37	245	P	18 30.20	1.3
PMRM	2.39	236	P	18 30.92	1.8
MCUM	2.40	291	P	18 28.88	-0.4
BMSM	2.46	260	P	18 31.59	1.5
PHAM	2.48	239	ePc	18 31.05	0.8
PRI	2.52	248	eP	18 31.12	0.1
			iS	19 06.43	
ABL	2.56	207	ePn	18 32.24	0.5
			ePg	18 34.93	
WKR	2.56	240	P	18 32.75	1.2
PTV	2.58	247	P	18 33.32	1.6
LLA	2.59	259	eP	18 32.34	0.5
			eS	19 10.26	
BCH	2.69	224	ePn	18 33.94	0.4
EKH	2.76	261	P	18 36.68	2.3
LRC	2.77	252	P	18 36.40	2.0
RYS	2.80	208	P	18 39.27	4.2
CMPM	2.82	276	P	18 38.29	3.0
SSK	2.92	179	eP	18 36.43	-0.4
SCCM	2.92	222	P	18 40.30	3.6
GHS	2.93	270	P	18 38.62	1.8
SAO	2.96	264	eP	18 36.68	-0.4
PRS	2.99	255	eP	18 36.65	-1.0
ARN	3.00	275	ePn	18 37.80	0.0
MHC	3.09	275	ePc	18 40.41	1.4
PEC	3.28	171	iPd	18 41.47	-0.2
MSJ	3.28	278	P	18 45.02	3.3
GCC	3.37	269	eP	18 41.78	-1.2
ARUT	3.52	78	ePn	18 43.45	-1.8
BKS	3.62	283	ePd	18 48.28	1.8
ORV	3.79	311	eP	18 48.98	0.0
PLM	3.85	168	eP	18 49.39	-0.6
NTYM	4.06	289	(Pn)	18 53.67	0.9
			eS	19 51.42	
MIN	4.38	318	eP	19 00.16	2.7
MSU	4.65	71	ePn	19 01.40	0.0
			ePg	19 15.69	
GLA	4.74	148	eP	19 00.58	-1.9
DUG	4.94	50	ePn	19 06.77	1.3
			ePg	19 21.41	
HVU	6.04	38	ePg	19 42.79	21.8
SRU	6.05	69	ePn	19 21.56	0.4
			iPg	19 41.81	
DAU	6.06	55	ePn	19 21.01	-0.3
EMUT	6.08	62	ePg	19 44.10	22.4
TUC	7.51	128	eP	19 41.05	-0.5

55 obs. associated

MAY 19, 1993 03h 18m 57.26± 0.66s
37.122 N ± 5.1km 117.715 W ± 7.2km
DEPTH = 5.0km (geophysicist)
CALIFORNIA-NEVADA BORDER REGION (40)
ML 3.7 (GS). MD 3.6 (PAS).

TNP	1.04	22	eP	19 17.34	-0.1
MEMM	1.12	300	iPnc	19 17.38	-1.3
ISA	1.58	203	eP	19 25.54	-0.5
			eS	19 45.50	
KVN	1 95	351	eP	19 32.66	1.1
			eS	19 59.50	
GSC	1.96	158	(P)	19 31.02	-0.6
			eS	20 00.25	
PKEM	2.20	242	eP	19 35.36	0.4
			eS	20 03.32	
CMB	2 31	294	(Pn)	19 35.62	-1.0
			iPg	19 37.89	
			eS	20 06.98	
ABL	2.57	209	(Pn)	19 40.35	-0.2
			eS	20 15.18	
BCH	2.72	225	eP	19 43.97	1.4
SAO	3.01	264	(Pn)	19 46.14	-0.4
ARN	3.06	275	(Pn)	19 48.20	1.0
PEC	3.25	172	(P)	19 49.94	-0.1

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

& MAY 19, 1993 03h 20m 58.06s
37.147 N 117.790 W
DEPTH = 6.1km
4.4mb (4 obs.)
CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. MD 4.4 (GM). 4.3 (PAS).
ML 4.8 (BRK). 4.5 (GS).

CWCR	0.54	310	P	21 08.48	-0.4
CASR	0.74	305	P	21 12.40	-0.5
BONR	0.90	333	ePnd	21 15.01	-0.9
CLKR	0.94	299	P	21 15.77	-0.7
MCSM	1.02	300	P	21 17.52	-0.4
TNP	1.04	26	eP	21 18.15	0.0
MEMM	1.05	300	iPnc	21 17.91	-0.3
WCHM	1.28	190	P	21 22.04	-0.4
WORM	1.49	194	P	21 25.21	-0.3
FRI	1.54	265	eP	21 26.09	0.0
ISA	1.58	201	eP	21 26.26	-0.5
WBSM	1.63	190	P	21 27.28	-0.3
WJPM	1.82	198	P	21 30.20	0.0
KVN	1.92	353	eP	21 31.60	-0.1
GSC	2.01	156	iPd	21 32.23	-0.7
PHBM	2.05	245	P	21 35.29	1.9
PWMM	2.07	251	P	21 35.62	1.9
PKEM	2.16	241	ePn	21 35.88	0.8
			iPg	21 37.08	
PARM	2.24	247	P	21 38.02	1.8
CMB	2.24	294	ePc	21 36.01	-0.3
			eS	22 05.25	
PCRM	2.37	244	P	21 38.08	-0.1
CTM	2.38	240	P	21 39.08	0.7
PSRM	2.38	238	P	21 38.88	0.6
PMRM	2.39	236	P	21 40.27	1.8
MRFM	2.43	298	P	21 38.72	-0.3
GHC	2.45	238	P	21 40.47	1.3
YEG	2.45	226	P	21 41.54	2.3
BRMM	2.45	264	P	21 39.75	0.5
PTRM	2.46	233	P	21 41.13	1.8
PHAM	2.48	239	eP	21 40.51	0.9
PSMM	2.50	245	P	21 41.25	1.3
PSTM	2.50	242	P	21 41.04	1.0
PMCM	2.52	236	P	21 42.04	1.8
PRI	2.52	247	eP	21 40.41	0.1
			eS	22 16.29	
WKR	2.56	240	P	21 42.34	1.5
ABL	2.57	207	ePn	21 40.59	-0.5
			eS	22 17.63	
PTV	2.58	247	P	21 42.27	1.3
LLA	2.58	259	eP	21 41.89	0.8
			eS	22 20.55	
MOP	2.59	250	P	21 42.52	1.3
MNHM	2.60	293	P	21 41.47	0.2
BCH	2.70	224	ePn	21 42.98	0.1
PSAM	2.73	247	P	21 43.50	0.2
LRC	2.76	252	P	21 43.93	0.2
PMGM	2.79	233	P	21 45.54	1.4
PCL	2.80	269	P	21 45.45	1.2
ASMM	2.83	307	P	21 44.80	0.0
PANM	2.86	242	P	21 45.63	0.6
AASM	2.92	297	P	21 45.77	-0.2
SSK	2.93	178	eP	21 45.90	-0.3
ARJM	2.94	303	P	21 46.40	0.2
SAO	2.95	264	ePn	21 46.00	-0.4
			eS	22 32.49	
HSPM	2.98	271	P	21 48.77	2.0
PRS	2.99	255	eP	21 46.16	-0.7
ARN	2.99	275	ePn	21 46.79	-0.2
AFHM	3.03	310	P	21 47.34	-0.2
MHC	3.08	275	ePc	21 48.05	-0.2
			eS	22 32.68	
AFDM	3.09	307	P	21 48.18	-0.1
AHRM	3.10	304	P	21 48.20	-0.2
JRRM	3.15	270	P	21 50.40	1.3
APRM	3.21	304	P	21 50.06	0.1
BPRM	3.25	258	P	21 49.40	-1.2
PEC	3.29	171	ePd	21 50.79	-0.4
GCC	3.37	269	eP	21 52.68	0.5
STAN	3.51	276	ePc	21 55.54	1.3
			eS	22 49.34	
ARUT	3.52	78	ePn	21 53.88	-0.7
LT3	3.53	273	P	21 55.49	0.9
BKS	3.61	283	ePc	21 54.93	-0.7
ZSP	3.64	284	eP	21 55.89	-0.2
ORV	3.78	311	eP	21 57.45	-0.7
OBHM	3.82	312	P	21 58.77	0.0
PLM	3.86	168	eP	21 58.91	-0.5
			eS	23 00.02	
OGOM	3.91	311	P	21 59.75	-0.2
NTYM	4.05	289	eP	22 01.26	-0.7
MIN	4.37	318	eP	22 09.76	3.1
LRDM	4.38	320	P	22 07.77	1.1
MSU	4.65	71	ePn	22 09.03	-1.7
DUG	4.94	50	ePg	22 31.41	16.7
WDC	5.05	314	ePc	22 21.58	5.5
LBFM	5.26	324	ePn	22 18.31	-1.1
			ePg	22 37.57	
LBKM	5.46	318	P	22 18.75	-3.3
HVU	6.04	38	(Pn)	22 30.68	0.5
			ePg	22 50.43	
FHC	6.05	309	(Pn)	22 30.77	0.5
SRU	6.05	69	(Pn)	22 32.25	1.8
			ePg	22 51.03	
			eS	24 07.36	
DAU	6.06	55	(P)	22 28.81	-1.8
EMUT	6.08	62	ePg	22 53.15	22.2
TUC	7.52	128	eP	22 50.42	-0.5
MCMT	8.53	24	eP	23 08.60	3.3
LRM	9.55	23	eP	23 24.20	5.0
LON	10.05	344	(P)	23 28.85	2.9
GOL	10.07	72	(P)	23 26.82	0.2
DPW	10.72	359	(P)	23 35.92	0.7
RSSD	12.55	52	(P)	24 00.49	0.3

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ACO     14.92   86 iPd    24 37.60    6.3
MEO     15.73   93 iPd    24 43.10    1.3
UYO     19.18   92 iPc    25 24.20   -0.8
MIAR    19.79   90 eP     25 30.90   -1.0
        1.1s     20.27nm            4.3mb
ULM     20.46   43 ePd    25 40.10    1.2
OLY     21.25   86 eP     25 46.31   -0.8
FVM     21.68   79 eP     25 50.29   -1.2
        1.3s     25.68nm            4.5mb
YKA     25.45    3 eP     26 27.30   -0.6
        0.9s      1.20nm            3.6mb
FCC     26.56   28 eP     26 42.50    4.3
EEO     30.08   59 eP     27 11.00    0.8
GAC     32.54   61 eP     27 30.50   -1.3
JAO     33.29   46 eP     27 36.00   -2.2
MBC     39.20  359 eP     28 35.00    7.0
FRB     39.60   32 eP     28 31.00   -0.5
ZOBO    70.77  129 P      32 16.00   -2.1
GEC2    84.16   30 P      33 31.10   -0.2
        1.1s      3.18nm            4.4mb
                  e       33 37.70
      108 obs. associated
-------------------------------------
* MAY 19, 1993  03h 46m 48.81± 0.65s
  0.660 S ±16.8km   20.526 W ± 9.1km
  DEPTH =  10.0km  (geophysicist)
  4.4mb (  5 obs.)
 CENTRAL MID-ATLANTIC RIDGE        (406)

LIC     16.91   66 P      50 47.00   -0.3
TIC     17.09   65 P      50 49.00   -0.5
KIC     17.23   66 P      50 52.60    1.3
BAO     30.92  240 eP     53 08.20   -0.2
CCH     47.83  247 eP     55 25.00   -4 4X
LPB     49.43  249 P      55 42.00    0 1
GEC2    57.48   26 P      56 39.60   -0.9
        0.8s      1.34nm            4.0mb
                  e       56 43.40
                  e       56 55.30
LMN     60.52  326 eP     57 04.00    2.5
HFS     66.18   18 eP     57 37.80   -0.8
        0.5s      1.00nm            4.3mb
NB2     66.18   16 P      57 38.20   -0.4
        0 8s      1.80nm            4.3mb
GAC     66.78  321 eP     57 44.00    1.3
JAO     70.77  329 eP     58 07.00   -0.3
KAF     71.85   21 eP     58 13.90    0.3
FVM     74.66  310 eP     58 29.00   -1.5
        0.9s     16.95nm            5.1mb
OLI     74.94  307 eP     58 31.38   -0.8
ULM     81.16  321 eP     59 09.50    3.4X
FCC     82.08  330 eP     59 16.50    5.9X
LTX     84.34  299 eP     59 22.11   -0.9
PV09    89.31  308 eP     59 48.80    1.4
YKA     92.47  332 eP     00 00.00   -1.0
        0.8s      1.90nm            4.5mb
ASPA   145.33  136 ePKP   06 29.10   -0.4
        0.8s     39.60nm
                  i       06 35.00
                  eP'P'   28 41.80
WB2    147.98  131 ePKP   06 34.80    1.0
        0.5s      3.70nm
                  eP'P'   28 00.10
OLP    149.19  153 ePKP   06 40.10    4.5X
      S.D. = 1.1  on  19 of  23 obs.
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   MAY 19, 1993  03h 56m 08.44± 0.50s
   41.046 N ± 6.0km  141.979 E ± 8.8km
   DEPTH =  71.4 ±  5.4 km
   4.6mb ( 16 obs.)
 HOKKAIDO, JAPAN  REGION           (224)

AOMJ    1.31  249 P      56 30.60   -0.7
                  S       56 48.10
MRRJ    1.54  334 eP     56 34.20   -0.1
                  eS      56 53.70
HOOJ    1.66   36 iPd    56 36.90    1.0
                  eS      56 59.60
OFUJ    1.98  187 P      56 38.50   -1.9
                  S       57 02.00
KUSJ    2.89   44 P      56 51.90   -1.1
                  eS      57 24.80
ASAJ    3.11    9 iPd    56 56.90    0.8
                  eS      57 34.90
YAMJ    3.24  208 P      56 58.00    0.1
NIIJ    4.45  212 P      57 14.40   -0.5
KAKJ    5.04  197 eP     57 19.20   -3.9X
MAT     5.38  214 eP     57 28.00    0.1
        0.8s      8.96nm            4.1mb
                  eS      58 59.00
CHJJ    5.51  206 eP     57 31.60    1.8
MTMJ    5.52  218 P      57 31.90    1.9
FBA    45.51   34 (P)    04 21.40   -0.6
GUN    47.32  272 P      04 36.40   -0.8
KKN    47.83  273 P      04 40.40   -0.7
        0.8s     44.00nm            5.5mb
PKI    47.85  272 P      04 40.60   -0.7
DMN    48.06  272 P      04 42.40   -0.5
GKN    48.21  273 P      04 43.40   -0.5
        0.6s     19.00nm            5.2mb
YKA    60.14   31 eP     06 09.50   -0.8
        0.6s      0.30nm            3.6mb
KAF    64.96  332 iP     06 41.30   -1.0
        0.5s      4.90nm            4.7mb
NUR    66.63  331 iP     06 52.10   -0.9
        0.4s      9.20nm            5.1mb
SLL    70.47  336 eP     07 16.10   -0.7
        0.4s      2.70nm            4.6mb
NB2    70.67  337 P      07 17.40   -0.6
        0.7s      2.60nm            4.3mb
GEC2   79.54  328 P      08 09.10    0.3
        0.5s      0.68nm            3.9mb
                  e       08 10.90
                  e       08 13.20
LPL    84.98  330 eP     08 37.80    0.6
        0.8s      3 75nm            4.5mb
LPG    84.99  330 eP     08 38.00    0.7
        0.8s      3.65nm            4.5mb
SMF    85.07  333 eP     08 37.60    0.3
AVF    85.11  333 eP     08 38.00    0.5
        0.7s      4.30nm            4.6mb
MAF    85.87  333 eP     08 42.40    1.1
        0.8s      7.00nm            4.8mb
LSF    86.20  334 eP     08 43.60    0.7
        0.7s      6 05nm            4.8mb
MFF    86.44  335 eP     08 45.00    0.9
        0.6s      3.25nm            4.6mb
CAF    87.18  333 eP     08 49.00    1.3
        0.4s      1.80nm            4.6mb
      S.D. = 1.0  on  31 of  32 obs.
-------------------------------------
   MAY 19, 1993  04h 03m 35.93± 0.55s
   26.890 N ± 9.1km   54.603 E ± 6.3km
   DEPTH =  33.0km  (normal)
   4.5mb ( 25 obs.)
 SOUTHERN IRAN                     (353)

DHR     4.04  263 eP     04 46.00    9.0X
RYD     7.52  255 eP     05 18.33   -7.8X
MJMA    8.42  265 eP     05 38.67    0.0
MAIO   10.26   23 eP     06 03.00   -1.1
AFIF   10.69  257 eP     06 14.67    4.8X
DHJN   13.78  230 eP     06 48.67   -2.9
GKN    26.65   81 P      09 15.40    1.6
KKN    27.23   81 P      09 18.80   -0.4
GUN    27.75   81 P      09 23.80   -0.3
OHR    31.19  306 eP     09 54.80    0.5
VBY    36.34  311 e(P)   10 29.50   -9.1X
ARV    37.43  307 P      10 49.30    1.5
ASS    37.54  307 P      10 50.30    1.5
KBA    38.07  313 i(P)   10 53.90    0.6
        0.7s      3.90nm            4.4mb
SFI    38.29  308 P      10 57.10    2.1
PGD    38.37  308 P      10 57.80    1.9
KHC    38.58  316 eP     10 57.50    0.1
CTI    38.92  311 P      11 01.00    0.7
WTTA   39.24  313 iPc    11 02.30   -0.8
        1.1s     18.00nm            4.7mb
NUR    39.30  337 eP     11 02.80   -0.4
KAF    39.93  340 eP     11 07.80   -0.6
PGF    40.11  305 eP     11 10.20   -0.1
        0.7s      4.50nm            4.3mb
BOB    40.15  308 P      11 11.80    1.3
SBF    41.43  307 eP     11 21.20    0.2
        0.8s     18.25nm            4.9mb
LPG    42 16  309 eP     11 26.70   -0.6
        0.8s      9.25nm            4.6mb
LPL    42.17  309 eP     11 26.70   -0.6
        0.7s      6.70nm            4.5mb
BSF    42.56  312 eP     11 29.50   -0.8
        0.7s      4.95nm            4.3mb
LZH    42.60   65 eP     11 49.00   18.1X
        1.8s     24.00nm
HFS    43.34  331 eP     11 34.90   -1.4
        0.4s      1.70nm            4.1mb
      Z  15s     48.00um            6.5MszX
                  LR      22 00.00
LBF    44.29  311 eP     11 44.00   -0.3
        0.8s      3.10nm            4.2mb
SMF    44.34  310 eP     11 44.10   -0.5
        0.9s     11.95nm            4.7mb
LOR    44.42  311 eP     11 44.50   -0.8
        0.9s      4.40nm            4.3mb
SSF    44.62  311 eP     11 46.60   -0.3
        0.9s      8.70nm            4.6mb
AVF    44.69  310 eP     11 47.30   -0.1
        0.6s      2.05nm            4.2mb
N82    44.86  332 P      11 47.40   -1.2
        0.7s      2.40nm            4.2mb
BGF    45 00  310 eP     11 49.50   -0.5
        0.7s      5.85nm            4.6mb
MAF    45 15  309 eP     11 50.90   -0.3
        0.8s      4.05nm            4.4mb
CAF    45.37  308 eP     11 53.10    0.1
        0.8s      7.95nm            4.7mb
TCF    45.41  310 eP     11 53.10   -0.1
        0.7s      5.75nm            4.6mb
RJF    45.79  308 eP     11 56.60    0.4
        0.7s      5.30nm            4.6mb
LPO    45.98  307 eP     11 57.90    0.2
        0.8s      7.50nm            4.7mb
LFF    46.31  308 eP     12 00.60    0.3
        0.6s      5.25nm            4.7mb
LDF    47.25  312 eP     12 06.60   -1.1
        0.7s      7.30nm            4.8mb
GRR    47.71  312 eP     12 10.60   -0.7
        1.0s     16.60nm            5.0mb
EKA    50.10  321 P      12 29.00   -0 6
        1.4s     15.80nm            4.8mb
KIC    59.86  261 P      13 42.10    1.0
TIC    59.98  262 P      13 42.80    0.9
LIC    60.18  261 P      13 44.20    1.0
YKA    90.51  355 eP     16 36.00    0.5
        0.7s      1.00nm            4.2mb
      S.D. = 1.0  on  44 of  49 obs.
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* MAY 19, 1993  04h 09m 08.63± 0.68s
  26.805 S ± 6.6km   26.722 E ± 6.4km
  DEPTH =  5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA          (584)
  ML 3.3 (PRE).

BFS     0.11  149 iPd    09 11.60    0.5
PRY     0.68  101 eP     09 21.00   -1.3
                  S       09 28.00
KSR     0.95   10 iPd    09 28.00    0.7
                  S       09 40.50
SWZ     1.30  253 eP     09 34.90    1.6
                  S       09 51.40
SEK     1.71  152 eP     09 39.50    0.1
                  S       09 59.50
SLR     1.76   53 iPd    09 40.90    0.8
                  S       10 03.00
BLF     2.34  192 iPd    09 48.90    0.3
                  S       10 16.60
FRS     3.18  202 iPd    09 59.50   -0.8
                  S       10 34.60
BFT     3.18   70 eP     10 00.80    0.3
                  S       10 41.50
BUL     6.85   15 iPn    10 41.00  -11.4X
                  iSn     12 07.50
                  iSg     12 42.50
SUR     7.57  221 eP     10 58.90   -3.6X
                  S       12 21.00
WIN     9.71  294 eP     11 30.00   -2.3
                  S       13 13.00
MTD    10.95   25 iPn    11 23.50  -25.6X
                  iSn     13 37.80
                  iS•     13 54.50
                  iLg     14 23.00
      S.D. = 1.3  on  10 of  13 obs.
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% MAY 19, 1993  04h 28m 42.66± 1.59s
  31.240 S ±11.3km   68.651 W ±14.1km
  DEPTH = 114.7 ± 15.0 km
 SAN JUAN PROVINCE, ARGENTINA      (137)

RTLL    0.18  120 iPc    28 58.70   -0.4
RTCB    0.28  207 ePd    28 59.30   -0.2
                  S       29 11.00
ZON     0.31  184 iPd    28 59.40   -0.2
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19d 04h

			eS	29 09.40		
CFA	0.51	136	iPc	29 00.50	0.1	
			S	29 12.00		
RTBS	0.80	238	ePd	29 03.40	0.8	
MRA	2.76	116	e(P)	29 27.00	0.7	
			S	29 53.40		
RFA	3.52	178	ePc	29 36.00	-0.6	
			(S)	30 12.50		
CYA	3.73	42	ePc	29 39.20	-0.2	
			S	30 21.60		

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

& MAY 19, 1993 04h 42m 49.57s
37.150 N 117.805 W
DEPTH = 7.3km
CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. MD 3.3 (GM). ML 3.0 (GS).

BHPR	0.56	286	P	43 00.60	-0.4
BCKR	0.71	321	P	43 03.05	-0.7
BONR	0.90	334	ePd	43 06.67	-0.5
CLKR	0.92	299	P	43 07.03	-0.6
MCSM	1.01	300	P	43 08.72	-0.4
MEMM	1.04	300	iPc	43 09.08	-0.3
			eS	43 22.97	
TNP	1.04	26	ePd	43 09.70	0.1
WCHM	1.28	190	P	43 13.61	-0.2
WORM	1.49	194	P	43 17.34	0.5
WASM	1.53	204	P	43 18.10	0.6
WSHM	1.54	170	P	43 17.29	-0.1
ISA	1.58	200	ePd	43 17.43	-0.6
			eS	43 39.35	
WJPM	1.82	198	P	43 23.23	1.6
KVN	1.91	353	ePn	43 22.86	-0.2
			eS	43 50.52	
GSC	2.01	156	eP	43 23.32	-1.1
			eS	43 55.22	
PHBM	2.04	245	P	43 26.79	2.1
PKEM	2.15	240	ePn	43 27.41	1.1
			eS	43 55.77	
MSTM	2.20	291	P	43 29.36	2.3
CMB	2.23	294	ePn	43 27.04	-0.5
			iPg	43 29.41	
			eS	43 57.43	
MCUM	2.38	291	P	43 29.67	0.1
BRMM	2.44	263	P	43 32.84	2.4
CRGC	2.46	220	P	43 34.59	3.8
PHAM	2.47	239	ePn	43 31.47	0.6
MARC	2.48	211	P	43 34.86	3.9
ABL	2.57	207	ePn	43 33.31	0.9
MNHM	2.59	294	P	43 35.93	3.4
BCH	2.69	224	ePn	43 35.10	1.0
EKH	2.74	261	P	43 37.13	2.3
LTR	2.82	266	P	43 38.30	2.5
GHS	2.91	270	P	43 39.58	2.4
SSK	2.93	178	ePn	43 36.97	-0.7
SAO	2.94	264	ePn	43 38.56	1.0
ARN	2.98	275	ePn	43 39.34	1.2
PEC	3.29	171	iPd	43 42.20	-0.4
JRGM	3.33	269	P	43 47.43	4.4
ARUT	3.53	78	ePn	43 45.05	-1.0
ORV	3.77	311	ePg	43 57.11	7.8
PLM	3.87	168	eP	43 49.98	-0.9
MSU	4.66	71	ePn	44 03.75	1.5
			ePg	44 16.84	
GLA	4.76	148	ePn	44 02.55	-0.9
DUG	4.95	51	(Pn)	44 05.37	-0.8
			ePg	44 22.49	
HVU	6.04	39	ePg	44 43.54	21.9
			eSg	46 03.54	
DAU	6.06	56	ePg	44 45.51	23.4
SRU	6.06	69	ePg	44 42.54	20.6

44 obs. associoted

& MAY 19, 1993 05h 20m 46.07s
58.361 N 152.412 W
DEPTH = 34.9km
KODIAK ISLAND REGION (13)
<AEIC>. ML 3.1 (AEIC).

SYI	0.25	3	iPd	20 52.83	-0.5
			eS	20 58.38	
KDC	0.62	184	ePc	20 57.11	-1.2
			eS	21 05.79	
CDD	0.86	312	ePd	21 00.51	-1.3
			eS	21 12.49	
AUI	1.11	332	ePc	21 04.40	-0.9
			eS	21 19.08	
AUE	1.12	334	ePc	21 04.82	-0.6
AUH	1.14	332	ePc	21 05.04	-0.8
			eS	21 19.77	
AUL	1.15	333	ePc	21 05.18	-0.8
XLV	1.15	18	eP	21 05.16	-0.8
			eS	21 20.79	
MCNL	1.30	310	ePd	21 06.99	-1.2
			eS	21 24.69	
CNPM	1.32	27	iPc	21 07.19	-1.3
			eS	21 26.36	
BRLK	1.61	29	ePc	21 10.83	-1.9
			eS	21 30.32	
PDB	1.70	328	ePc	21 12.11	-1.8
			eS	21 32.66	
INE	1.74	349	eP	21 12.56	-2.0
			eS	21 34.99	
INW	1.75	348	eP	21 12.96	-1.7
			eS	21 35.47	
RDW	2.14	355	eP	21 18.75	-1.6
NCT	2.22	353	eP	21 19.20	-2.2
SEW	2.32	40	ePc	21 19.59	-3.0
SLKM	2.43	27	ePc	21 21.41	-2.8
			eS	21 48.57	
NKA	2.46	14	eP	21 24.35	-0.3
MPA	2.64	35	eP	21 24.14	-3.1
SPU	2.84	4	ePc	21 27.57	-2.5
CKL	2.85	1	ePc	21 28.23	-2.0
CKT	2.85	2	eP	21 28.04	-2.3
CKN	2.87	2	eP	21 28.60	-2.0
CPAM	2.91	3	eP	21 29.25	-1.9
BGL	2.91	0	eP	21 29.37	-1.8
CP2	2.91	2	ePc	21 29.50	-1.8
CRP	2.92	2	eP	21 29.32	-2.0
CGLM	2.96	4	eP	21 30.29	-1.6
PTE	3.04	33	eP	21 29.96	-3.0
SVW	3.20	331	eP	21 31.86	-3.4
SUA	3.22	14	eP	21 33.25	-2.4
PMS	3.23	25	P	21 32.90	-2.8
PMR	3.64	26	(P)	21 39.10	-2.2
HIN	3.65	53	ePd	21 37.90	-3.6
SKT	3.66	7	eP	21 38.98	-2.7
GHO	3.84	26	eP	21 40.92	-3.5
CVA	4.05	54	eP	21 42.94	-4.2
VLZ	4.14	45	eP	21 44.84	-3.7
SGAM	4.26	57	eP	21 46.32	-3.9
SCM	4.31	34	eP	21 47.30	-3.8
KLU	4.53	43	ePc	21 50.44	-3.7
TRF	5.21	11	eP	22 00.44	-3.4
GLB	5.32	51	eP	22 01.08	-4.1
TGL	5.43	60	eP	22 03.17	-3.7
BALM	5.76	58	eP	22 07.03	-4.5
YAH	5.81	65	eP	22 08.62	-3.8
CTGM	6.19	60	eP	22 12.25	-5.4
HDA	6.61	21	eP	22 19.24	-4.1

49 obs. associoted

• MAY 19, 1993 06h 08m 51.08± 1.41s
11.187 S ± 9.4km 166.199 E ±10.4km
DEPTH = 83.3 ± 12.0 km
4.8mb (9 obs.)
SANTA CRUZ ISLANDS (184)

HNR	6.39	285	eP	10 24.00	-0.6
SVO	6.60	287	eP	10 28.00	0.5
BKM	6.74	163	iPc	10 29.90	0.5
			iS	11 42.00	
DZM	10.83	179	iPc	11 24.90	-0.3
			iS	13 22.60	
BRS	20.47	216	iP	13 19.00	-5.4X
CTA	21.13	243	iPd	13 31.20	0.1
	1.0s		7.50nm	4.0mb	
WB2	31.84	250	eP	15 08.90	-1.5
	0.9s		3.50nm	4.1mb	
			i	15 28.40	
			e	17 59.90	
TOO	32.18	212	iPc	15 13.20	0.0
	0.6s		11.00nm	4.8mb	
BJI	68.87	321	eP	19 47.50	-1.3
	1.4s		24.00nm	4.9mb	
KMI	71.58	301	Pd	20 07.00	1.1
	1.5s		50.00nm	5.2mb	
			pP	20 23.50	60kmX
LZH	75.18	312	eP	20 27.50	0.9
	1.5s		27.00nm	4.9mb	
IMA	82.53	15	(P)	21 06.90	1.2
	1.4s		20.45nm	4.8mb	
FBA	83.32	18	eP	21 09.70	0.1
	1.0s		12.50nm	4.8mb	
GUN	86.78	299	P	21 28.80	0.7
PKI	87.10	299	P	21 29.40	-0.2
KKN	87.26	299	P	21 30.60	0.3
DMN	87.37	299	P	21 31.40	0.6
GKN	87.86	299	P	21 33.20	0.1
YKA	94.89	27	eP	22 02.60	-2.1
	0.6s		0.70nm	4.3mb	
KAF	121.53	339	iPKP	27 35.10	-0.9
	0.5s		2.00nm		
NUR	123.21	338	ePKP	27 39.50	0.2
NB2	126.95	345	PKP	27 46.20	-0.5
	0.8s		2.60nm		
GEC2	136.03	334	PKP	28 04.60	0.2
	0.9s		1.11nm		
BCAO	147.29	261	iPKPc	28 26.00	0.9
	0.5s		33.00nm		
			ic	28 28.00	
			ic	29 46.20	

S.D. = 0.9 on 23 of 24 obs.

& MAY 19, 1993 06h 13m 05.76s
61.281 N 147.008 W
DEPTH = 18.9km
SOUTHERN ALASKA (2)
<AEIC>. ML 2.5 (AEIC).

VLZ	0.36	114	iPd	13 13.31	-0.1
			eS	13 19.43	
KLU	0.57	67	ePd	13 16.05	-0.9
			eS	13 24.86	
SCM	0.58	345	iPc	13 16.49	-0.6
			eS	13 25.34	
SML	0.83	310	iPc	13 20.03	-1.3
			eS	13 32.14	
HIN	0.92	164	iPc	13 21.53	-1.4
			eS	13 35.24	
CVA	0.96	140	iPc	13 22.10	-1.4
			eS	13 36.35	
GHO	1.04	299	iPc	13 23.34	-1.7
			eS	13 39.23	
PTE	1.07	248	iPc	13 23.87	-1.5
			eS	13 37.95	
PLRM	1.07	288	iPc	13 23.54	-1.8
TZL	1.08	44	ePc	13 24.29	-1.3
			eS	13 39.52	
SGAM	1.18	131	ePc	13 24.51	-2.7
			eS	13 42.08	
PMS	1.23	269	iPc	13 26.44	-1.6
			eS	13 43.42	
MPA	1.40	236	ePd	13 28.51	-1.8
			eS	13 46.18	
PWA	1.43	286	ePc	13 29.20	-1.5
SDG	1.43	28	ePc	13 29.11	-1.7
			eS	13 47.75	
RAGM	1.45	127	eP	13 28.68	-2.4
GLB	1.55	83	ePc	13 30.25	-2.3
			eS	13 50.04	
SEW	1.68	227	eP	13 33.20	-1.2
			eS	13 53.53	
SLKM	1.75	245	ePc	13 33.50	-2.0
			eS	13 56.44	
SUA	1.81	277	ePc	13 34.83	-1.5
PAX	1.84	22	eP	13 35.05	-1.8
			eS	13 58.48	
CROM	1.96	104	eP	13 35.86	-2.7
TGL	2.10	103	eP	13 38.65	-2 0
HUR	2.10	325	eP	13 39.33	-1.2
			eS	14 06.65	
NKA	2.13	257	eP	13 40.36	-0.5
SKT	2.27	290	ePc	13 40.49	-2.4
BALM	2.27	94	ePc	13 39.99	-3.1
RND	2.30	339	eP	13 42.09	-1.3
CGLM	2.41	273	eP	13 43.33	-1.7
SPU	2.44	270	eP	13 42.91	-2.5
CPAM	2.48	272	eP	13 43.89	-2.1
CRP	2.49	272	eP	13 44.49	-1.6
CKN	2.50	271	eP	13 45.31	-0.9
CKT	2.51	270	eP	13 44.29	-2.2
CP2	2.53	272	eP	13 45.21	-1.6
CKL	2.58	270	eP	13 44.73	-2.7
MCK	2.62	341	eP	13 46.31	-1.6
TRF	2.66	326	eP	13 46.83	-1.8
YAH	2.74	107	eP	13 47.50	-2.3
CNPM	2.74	232	eP	13 47.37	-2.2

```
CTGM     2.77   94 eP     13 47.44   -2.7
RDW      2.95  257 eP     13 50.32   -2.3
NCT      2.98  259 eP     13 50.74   -2.3
HDA      3.14    0 eP     13 52.68   -2.5
CCB      3.40  354 eP     13 56.28   -2.6
CDD      4.07  238 eP     14 06.50   -2.0
        46 obs. associoted
-------------------------------------------
% MAY 19, 1993  06h 32m 18.52± 1.90s
   43.530 N ±20.2km   11.249 E ± 5.6km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                      (381)

PGD      0.49   45 P      32 28.60    0.2
                 eSg     32 36.50
CRE      0.52   79 P      32 29.00   -0.1
                 eSg     32 36.50
PII      0.56  290 P      32 30.00    0.1
                 eSg     32 37.00
SFI      0.59   48 P      32 30.30   -0.1
                 eSg     32 38.50
BDI      0.71  319 P      32 32.40   -0.2
                 eSg     32 43.20
      S.D. = 0.2   on   5 of   5 obs.
-------------------------------------------
? MAY 19, 1993  06h 45m 48.03± 8.66s
   39.267 N ±57.4km   28.040 E ±38.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)
      ML 3.5 (ISK). Felt ot Bolikesir.

KCT      1.01   14 iPg    46 07.00   -0.2
                 iSg     46 18.00
BNT      1.09  355 iPg    46 08.80    0.3
                 iSg     46 23.30
YLV      1 65   38 iPn    46 17.50    0.2
CTT      1.90    9 iPn    46 20.50   -0.3
ISK      1.96   23 ePn    46 21.50   -0.1
HRT      1.99   38 iPn    46 22.50    0.3
EYL      2.08   51 ePn    46 23.30   -0.2
      S.D. = 0.3   on   7 of   7 obs.
-------------------------------------------
% MAY 19, 1993  07h 24m 09.90± 0.92s
   60.558 N ±13.4km    2.137 E ± 7.8km
   DEPTH =  10.0km  (geophysicist)
 NORTH SEA                          (534)
      MD 2.4 (BER).

OSG      0.37   99 eP     24 22.40    4.9X
SUE      1.38   68 eP     24 36.14    1.0
                 eS      24 53.52
ASK      1.51   92 eP     24 37.00    0.0
                 iS      24 56.50
EGD      1.56   99 eP     24 38.50    0.8
                 eS      24 56.00
                 eSg     24 58.00
LPW      1.70  257 eP     24 39.66   -0.1
                 eS      25 01.08
FOO      1.76   52 eP     24 40.92    0.4
                 eS      25 01.79
KMY      2.07  129 eP     24 45.02    0.0
                 eS      25 08.02
ODD1     2.33  104 eP     24 49.49    0.6
                 eS      25 16.26
NB2      4.47   80 P      25 17.80   -1.5
        0.4s     0.80nm
NRA0     4.63   84 Pn     25 20.32   -1.2
                 Pg      25 39.63
                 Sn      26 11.92
                 Lg      26 37.63
      S.D. = 1.0   on   9 of  10 obs.
-------------------------------------------
? MAY 19, 1993  07h 27m 29.91± 1.84s
   21.887 S ±22.3km   68.674 W ±40.9km
   DEPTH =  33.0km  (normol)
 CHILE-BOLIVIA BORDER REGION        (124)

ANT      2.42  221 eP     28 08.00    0.0
                 iS      28 37.00
CCH      5.08   29 P      28 46.20    0.1
CNCB     5.09    7 P      28 45.00   -1.5
LPB      5.35    6 P      28 51.00    1.0
ZOBO     5.61    5 P      28 54.20    0.4
      S.D. = 1.3   on   5 of   5 obs.
-------------------------------------------
& MAY 19, 1993  07h 29m 35.10s
   60.972 N          149.942 W
   DEPTH =  36.7km
 KENAI PENINSULA, ALASKA            ( 14)
      <AEIC>. ML 2.5 (AEIC).

PMS      0.33   34 P      29 43.20   -0.3
PTE      0.46  103 iPc    29 44.51   -0.7
SLKM     0.49  197 iPd    29 44.88   -0.7
                 eS      29 52.87
MPA      0.56  149 iPd    29 45.69   -0.9
                 eS      29 54.53
SUA      0.63  322 iPc    29 47.02   -0.6
                 eS      29 57.34
NKA      0.67  251 ePc    29 49.02    0.9
PWA      0.68    3 P      29 47.50   -0.8
                 S       29 58.40
PLRM     0.74   32 iPd    29 48.01   -1.0
                 eS      29 58.09
PMR      0.74   32 iPc    29 47.70   -1.3
                 eS      29 58.00
SEW      0.90  164 eP     29 49.95   -1.5
GHO      0.94   31 iPd    29 51.26   -0.8
                 eS      30 04.83
SPU      1.05  283 iPc    29 52.68   -0.9
                 eS      30 06.98
CGLM     1.06  289 eP     29 53.06   -0.6
CPAM     1.11  286 iPc    29 53.91   -0.5
CRP      1.11  286 iPc    29 53.48   -1.1
                 eS      30 08.94
CKN      1.12  284 iPc    29 54.01   -0.5
CKT      1.12  283 iPc    29 53.83   -0.8
                 eS      30 09.33
SML      1.14   42 ePd    29 54.04   -0.8
CP2      1.15  286 iPc    29 54.50   -0.7
                 eS      30 10.49
CKL      1.19  282 iPc    29 54.84   -0.7
BGL      1.22  285 ePc    29 55.62   -0.5
SKT      1.27  324 eP     29 55.94   -0.7
                 eS      30 13.54
BRLK     1.30  202 eP     29 56.09   -1.0
                 eS      30 12.59
DFR      1.40  255 eP     29 57.64   -1.0
REF      1.44  252 eP     29 58.80   -0.5
RSO      1.47  251 eP     29 58.30   -1.5
RDW      1.49  252 eP     29 59.48   -0.6
                 eS      30 17.99
NCT      1.52  256 ePc    29 59.37   -1.0
                 eS      30 19.21
SCM      1.53   54 eP     29 59.93   -0.5
CNPM     1.59  205 eP     30 00.06   -1.2
VLZ      1.76   83 ePc    30 02.14   -1.6
                 eS      30 23.70
HIN      1.79  107 eP     30 01.65   -2.5
INW      1.82  241 eP     30 03.96   -0.7
                 eS      30 26.94
KLU      2.01   73 ePd    30 05.78   -1.6
CVA      2.10  100 eP     30 06.84   -1.7
SGAM     2.37   99 eP     30 10.43   -2.0
PDB      2.42  242 eP     30 13.12    0.0
TRF      2.49  356 eP     30 13.31   -1.0
RND      2.50   11 eP     30 14.38    0.1
SDG      2.61   51 eP     30 16.17    0.3
RAGM     2.66  100 eP     30 14.77   -1.7
SVW      2.77  275 eP     30 15.54   -2.5
CDD      2.77  224 eP     30 16.85   -1.2
MCNL     2.84  233 eP     30 18.01   -1.1
GLB      3.00   78 eP     30 19.12   -2.4
CROM     3.33   91 eP     30 23.22   -3.0
BALM     3.70   86 eP     30 28.13   -3.3
YAH      4.08   95 eP     30 34.12   -2.8
        48 obs. associoted
-------------------------------------------
   MAY 19, 1993  08h 04m 55.29± 0.46s
   31.409 S ± 6.6km   69 258 W ± 6.3km
   DEPTH = 129.5 ±  7.9 km
 SAN JUAN PROVINCE, ARGENTINA       (137)
      MD 4.2 (SAN).

RTBS     0.30  213 iPd    05 14.00    0.2
RTCB     0.40  101 iPd    05 14.20    0.1
ZON      0.51  106 iPd    05 13.80   -0.9
                 eS      05 27.80
RTLL     0.68   83 iPc    05 15.70   -0.1
CFA      0.89  103 iPc    05 17.70    0.2
JACH     1 70  221 iP     05 26.78    0.6
                 iS      05 50.30
FCH      2.10  204 iPd    05 32.31    1.0
                 iS      05 59.87
PEL      2.11  215 iPd    05 31.39    0.3
                 iS      05 57.91
ROCH     2.15  223 iP     05 31.70   -0.1
                 iS      05 58.77
SAN      2.36  210 iP     05 34.50    0.3
                 iS      06 03.70
PCH      2.45  205 iP     05 36.06    0.6
                 iS      06 06.26
RTPR     2.61   66 ePc    05 37.60    0.3
TACH     2.65  212 iP     05 37.53   -0.4
                 iS      06 09.14
CHCH     2.78  205 iP     05 39.90    0.2
                 iS      06 13.02
LCCH     2.84  223 iP     05 39.70   -0.7
                 iS      06 12.13
LNV      3.12  215 iP     05 42.34   -1.7
                 iS      06 18.30
MRA      3.18  109 iPc    05 45.20    0.3
                 S       06 20.00
TCA      3.99   90 iPc    05 55.40   -0.4
                 S       06 38.50
CYA      4.22   46 ePc    05 58.30   -0.5
                 (S)     06 45.20
FSA      6.02   29 eP     06 23.70    0.4
CNCB    14.58    5 P      08 17.20    0.2
LPB     14.85    4 P      08 15.70   -4.6X
ZOBO    15.11    4 P      08 27.00    3.3X
      S.D. = 0.7   on  21 of  23 obs.
-------------------------------------------
& MAY 19, 1993  08h 05m 56.45s
   34.384 N          116.457 W
   DEPTH =   1.7km
 SOUTHERN CALIFORNIA                ( 43)
      <PAS-P>. ML 2.9 (PAS).

PEC      0.76  230 ePc    06 10.72   -1.0
                 eS      06 20.22
GSC      0.96  343 ePd    06 14.48   -1.0
SSK      1.04  261 ePc    06 15.71   -1.2
PLM      1.08  198 ePd    06 16.53   -1.2
                 eS      06 31.12
GLA      1.90  134 ePn    06 28.98   -1.3
                 ePg     06 31.65
ISA      2.09  308 (Pn)   06 32.56   -0.5
                 ePg     06 35.07
ABL      2.33  282 ePn    06 34.16   -2.5
TNP      3.74  351 (Pn)   06 54.80   -1.9
BONR     3.86  338 (Pn)   06 56.25   -2.3
                 ePg     07 07.54
MSU      5.38   39 (Pn)   07 21.88    2.0
        10 obs. associoted
-------------------------------------------
? MAY 19, 1993  08h 16m 35.57± 1.76s
   40.859 N ±14.7km   28.037 E ± 9.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)
      ML 2.8 (ISK).

BNT      0.51  190 iPg    16 45.70   -0.2
                 eSg     16 50.70
EDC      0.53  195 iPg    16 46.50    0.2
                 eSg     16 51.50
KCT      0.66  158 iPg    16 48.60   -0.1
KGT      0.69  234 iPg    16 50.70    1.5
GBZT     1.07   93 ePn    16 55.90    0.2
EZN      1.67  232 ePn    17 03.30   -1.6
      S.D. = 1.3   on   6 of   6 obs.
-------------------------------------------
% MAY 19, 1993  08h 59m 16.69± 0.61s
   40.646 N ± 5.2km   23.004 E ± 4.6km
   DEPTH =   5.0km  (geophysicist)
 GREECE                             (364)

THE      0.03  246 ePg    59 18.06    0.1
                 eSg     59 18.82
SOH      0.32   56 iPg    59 23.41    0.3
                 iSg     59 29.09
KNT      0.52  351 iPg    59 27.22    0.1
                 iSg     59 35.18
GRG      0.55  304 ePg    59 27.58   -0.2
SRS      0.65   43 iPg    59 29.62    0.0
                 eSg     59 38.06
OUR      0.81  112 ePg    59 32.34   -0.5
PAIG     0.88  144 ePg    59 34.38    0.3
      S.D. = 0.3   on   7 of   7 obs.
-------------------------------------------
% MAY 19, 1993  09h 11m 28.85± 0.93s
```

19d 09h .

30.892 S ±13.2km 68.323 W ±13.8km
DEPTH = 33.0km (normol)
SAN JUAN PROVINCE, ARGENTINA (137)

CFA	0.72	174	iPc	11 42.00	-0.5
			S	11 52.50	
ZON	0.72	205	iPd	11 42.50	-0.1
			eS	11 54.50	
RTCB	0.72	214	iPd	11 43.50	0.9
			S	11 55.50	
RTBS	1.23	231	ePd	11 49.50	-0.3
RTPR	1.67	70	iPc	11 56.70	0.6
			S	12 18.90	
CYA	3.29	43	ePd	12 18.80	-0.4
S.D. = 0.7		on	6 of	6 obs.	

% MAY 19, 1993 09h 29m 08.67± 1.28s
40.439 N ±24.2km 27.524 E ± 4.9km
DEPTH = 5.0km (geophysicist)
TURKEY (366)
ML 2.5 (ISK).

KGT	0.17	274	iPg	29 12.20	0.0
EDC	0.28	109	iPg	29 14.50	0.3
BNT	0.31	105	iPg	29 14.70	-0.3
			iSg	29 19.70	
KCT	0.66	106	ePg	29 22.00	0.0
EZN	1.10	237	ePn	29 29.80	0.0
S.D. = 0.3		on	5 of	5 obs.	

? MAY 19, 1993 09h 38m 51.06±11.31s
32.981 S ±28.9km 72.655 W ±87.4km
DEPTH = 33.0km (normol)
OFF COAST OF CENTRAL CHILE (134)
MD 4.0 (SAN).

LCCH	1.03	119	iP	39 08.76	-0.5
			iS	39 20.73	
ROCH	1.38	90	iP	39 13.94	-0.5
			iS	39 30.02	
LNV	1.42	133	iP	39 14.78	0.0
			(S)	39 32.29	
TACH	1.59	115	iP	39 16.97	-0.2
			iS	39 34.81	
PEL	1.66	96	iPd	39 18.28	-0.1
			iS	39 37 05	
SAN	1.74	106	iP	39 19 89	0.5
			iS	39 39.04	
JACH	1.76	81	iP	39 20.08	0.3
			iS	39 40.61	
PCH	1.90	110	iP	39 22.09	0.2
			iS	39 44.07	
CHCH	1.92	120	iP	39 22.57	0.4
			iS	39 44.55	
FCH	2.01	101	iPd	39 23.65	0.0
			iS	39 46.32	
MDZ	3.20	89	e(P)	39 47.40	7.1X
S.D. = 0.4		on	10 of	11 obs.	

? MAY 19, 1993 10h 06m 52.74± 0.93s
39.566 N ± 7.7km 29.885 E ±14.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

ALT	0.54	161	iPg	07 03.70	0.0
			iSg	07 10.70	
EYL	1.02	12	ePn	07 12.00	-0.1
YLV	1.07	339	ePn	07 13.20	0.2
KCT	1.36	301	ePn	07 17.60	-0.1
S.D. = 0.3		on	4 of	4 obs.	

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* MAY 19, 1993 11h 24m 44.52± 0.86s
62.997 N ± 6.6km 148.149 W ±14.2km
DEPTH = 10.0km (geophysicist)
CENTRAL ALASKA (1)
ML 2.9 (PMR), 2.1 (AEIC).

PMR	1.48	198	eP	25 10.00	-1.2
			eS	25 29.80	
PWA	1.57	212	ePd	25 13.30	0.8
KLU	1.83	144	eP	25 16.40	0.0
			eS	25 40.41	
PMS	1.88	201	eP	25 18.30	1.3
FBA	1.92	5	eP	25 17.74	0.2
SLKM	2.69	202	eP	25 27.71	-0.9
			eS	26 05.94	
BALM	3.37	123	eP	25 40.24	1.9X
			eS	26 24.58	
TTA	3.59	272	e(P)	25 50.30	8.9X
IMA	3.90	325	eP	25 45.55	-0.3
S.D. = 1.1		on	7 of	9 obs.	

? MAY 19, 1993 11h 28m 56.63± 2.12s
32.917 S ± 9.1km 72.771 W ±19.1km
DEPTH = 33.0km (normol)
OFF COAST OF CENTRAL CHILE (134)
MD 4.2 (SAN).

LCCH	1.15	119	iP	29 15.96	-0.5
			iS	29 28.10	
ROCH	1.48	93	iP	29 20.70	-0.8
			iS	29 37.36	
LNV	1.54	133	iP	29 22.05	0.0
			iS	29 38.60	
TACH	1.70	116	iP	29 24.29	-0.2
			iS	29 42.13	
PEL	1.77	98	iPd	29 25.48	0.0
			iS	29 43.91	
SAN	1.85	107	iP	29 26.80	0.2
			iS	29 47.03	
JACH	1.85	83	iP	29 26.35	-0.3
			iS	29 47.88	
PCH	2.02	111	iP	29 29.53	0.4
			iS	29 51.37	
CHCH	2.04	120	iP	29 29.97	0.6
			iS	29 52.24	
FCH	2.12	102	iP	29 31.04	0.3
			iS	29 54.62	
MDZ	3.30	90	e(P)	29 54.30	7.0X
RTCB	3.66	68	ePd	29 59.00	6.6X
ZON	3.73	70	eP	29 55.50	2.2X
RTLL	3.98	68	e(P)d	29 58.50	1.6
RFA	4.03	118	ePc	29 46.20	-11.5X
CFA	4.06	72	e(P)	30 06.50	8.5X
TCA	7.12	79	e(P)	30 40.00	-1.2
CYA	7.48	55	eP	30 40.50	-5.7X
CNCB	16.61	16	eP	32 49.00	-0.2
ZOBO	17.10	15	P	33 00.00	4.6X
S.D. = 0.7		on	13 of	20 obs.	

% MAY 19, 1993 11h 49m 28.27± 1.02s
16.836 N ±17.9km 95.371 W ± 9.4km
DEPTH = 120.3 ± 29.8 km
OAXACA, MEXICO (60)

OXX	1.32	281	iP	49 54.50	0.3
			iS	50 14.50	
SCX	2.62	92	eP	50 10.00	-0.2
			iS	50 38.50	
IISM	2.87	319	iP	50 12.00	-1.5
			iS	50 47.00	
TPX	3.56	122	eP	50 23.00	0.3
PPM	3.81	306	iP	50 27.25	0.6
			(S)	51 08.50	
IIA	3.88	307	iP	50 27.50	0.4
III	4.20	292	iP	50 31.50	-0.1
ACX	4.30	271	eP	50 32.00	-0.8
UNM	4.39	305	eP	50 36.00	1.6
CRX	4.83	303	(P)	50 49.50	9.2X
MRX	6.22	298	(P)	50 58.50	-0.6
S.D. = 1.0		on	10 of	11 obs.	

MAY 19, 1993 11h 55m 46.29± 0.22s
30.465 S ± 5.9km 178.142 W ± 8.1km
DEPTH = 23.0km (2 depth phases)
5.5mb (25 obs.)
KERMADEC ISLANDS, NEW ZEALAND (178)
Felt (III) on Raoul Island.

RAO	1.22	9	iP	56 08.80	0.8
HBZ	7.70	202	eP	57 38.70	-1.1
PUZ	8.15	200	eP	57 44.00	-2.2
			eS	59 16.80	
URZ	8.71	205	P	57 51.90	-1.9
			eS	59 32.30	
NOZ	8.72	200	eP	57 52.10	-1.9
MNG	11.38	205	eP	58 24.90	-5.6X
			eS	00 30.70	
MTW	11.85	204	eP	58 29.70	-7.1X
BLW	12.04	204	eP	58 34.90	-4.5X
			eS	00 45.80	
MRW	12.20	206	eP	58 35.70	-5.9X
			eS	00 50.70	
MRW	12.20	206	P	58 51.00	9.4X
			S	00 50.00	
KHZ	13.67	207	eP	58 54.30	-6.7X
			eS	01 23.20	
LTZ	14.49	209	eP	59 07.40	-4.5X
ODZ	17.02	208	eP	59 40.80	-3.4X
			eS	02 38.90	
BRS	25.61	270	iPd	01 21.50	5.9X
	1.0s		15.00nm		4.6mb
			i	01 23.00	5kmX
			i	01 35.50	
ARMA	26.03	262	iPc	01 25.90	6.3X
	0.8s		56.00nm		5.3mb
RIV	26.16	255	iPc	01 26.10	5.5X
	0.8s		3820.90nm		7.1mb X
CNB	27.64	251	iPc	01 39.90	5.6X
	0.7s		101.00nm		5.6mb
CAN	27.94	251	iPc	01 41.80	4.9X
BWA	28.42	253	iPc	01 43.90	2.6
TOO	30.83	247	iPc	02 06.80	4.1X
	1.0s		147.00nm		5.8mb
QLP	33.18	267	iPc	02 26.70	3.3X
CTA	33.69	279	P	02 32.20	4.3X
STK	34.35	257	iPc	02 37.40	4.0X
	0.7s		112.90nm		5.9mb
ASPA	42.98	267	iPc	03 47.40	1.7
	0.5s		71.00nm		5.7mb
WB2	43.96	272	iPd	03 55.60	2.0
	0.6s		298.50nm		6.3mb
WRA	43.97	272	P	03 55.50	1.8
	0.7s		57.90nm		5.5mb
HON	55.01	23	P	05 30.00	11.7X
Z	19s		0.24um		4.3Msz
CSY	55.03	208	iPc	05 19.50	1.6
	0.6s		120.60nm		6.1mb
MEEK	55.05	257	eP	05 18.00	-0.7
MUN	55.36	250	iPd	05 21.00	0.2
GUA	56.37	315	eP	05 27.30	-0.9
	0.9s		168.07nm		6.1mb
GUMO	56.44	315	eP	05 27.50	-1.2
	1.4s		150.80nm		5.8mb
PJG	56.44	315	eP	05 27.80	-0.9
SPA	59.70	180	iPc	05 53.20	1.9
	0.8s		33.33nm		5.5mb
MAW	72.20	201	P	07 13.00	2.1
	1.1s		43.48nm		5.4mb
KKM	72.46	288	ePd	07 11.80	-1.6
	1.9s		681.60nm		6.4mb
CHJJ	77.45	326	P	07 38.20	-3.1X
WKYJ	77.75	322	eP	07 39.60	-3.5X
KAGJ	78.11	317	eP	07 45.00	-0.1
MAT	78.22	325	eP	07 45.00	-0.6
	0.9s		9.24nm		4.8mb
TKSJ	78.39	321	eP	07 46.20	-0.4
MTMJ	78.46	325	P	07 46.50	-0.5
TSRJ	78.56	323	eP	07 45.90	-1.5
NVL	78.81	183	iPc	07 51.00	2.7
	1.0s		58.00nm		5.6mb
KUMJ	79.12	318	eP	07 52.00	1.4
SNA	79.47	179	iPd	07 54.10	2.3
	0.8s		49.00nm		5.6mb
			e	16 40.40	
YONJ	79.62	321	eP	07 48.90	-4.3X
KUSJ	80.75	333	eP	08 01.00	1.9
ASAJ	82.42	333	eP	08 08.50	0.8
IPM	84.43	279	ePd	08 19.10	0.4
	0.8s		23.40nm		5.5mb
			e	08 47.20	108kmX
YSS	84.82	334	(P)	08 20.50	0.7
BCH	85.14	44	ePd	08 23.04	1.2
			epP	08 39.17	57kmX
SAO	85.41	42	P	08 30.00	6.9X
Z	20s		0.49um		4.9Msz
PLM	85.92	47	eP	08 26.58	0.7
ISA	86.43	45	eP	08 28.79	0.5
	1.1s		21.05nm		5.3mb
Z	19s		0.23um		4.6Msz
			epP	08 45.20	58kmX
CMB	86.89	42	eP	08 30.37	-0.1
	0.9s		7.70nm		4.9mb
Z	19s		0.27um		4.7Msz
GLA	87.03	49	eP	08 32.43	1.2
GSC	87.22	46	eP	08 32.68	0.6
BONR	88.05	43	eP	08 36.44	0.1
			e	08 43.65	
			epP	08 51.84	53kmX
TNP	88.78	44	eP	08 39.35	-0.4

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        0.9s      8.35nm          5.1mb
                    e     08 46.68   23km
KVN     88.90   42 eP     08 40.50    0.3
TUC     89.25   51 eP     08 42.52    0.6
        1.3s     23.27nm          5.3mb
      Z 20s      0.27um           4.7Msz
                    e     08 51.07
                    ipP   08 59.22   58kmX
MSU     92.12   46 eP     08 56.19    1.0
                    e     09 03.63   23km
DUG     92.76   44 P      09 10.00   12.0X
      Z 21s      0.19um           4.5Msz
BJI     92.88 316 eP      08 58.00   -0.3
SRU     93.51   46 (P)    09 00.25   -1.3
KMI     93.74 297 eP      09 06.40    3 5X
                    pP    09 21.00   50kmX
HVU     93.77   43 iP     09 03.07    0.5
CP2     93.80   12 eP     09 01.23   -1.2
                    e     09 05.17
                    epP   09 17.71   57kmX
CRP     93.82   12 eP     09 00.97   -1.5
                    e     09 04.82
                    epP   09 17.37   57kmX
PMR     94.70   13 P      09 20.00   13.8X
      Z 20s      0.42um           4.9Msz
TTA     94.74   10 eP     09 06.77    0.3
        1.2s     5.93nm           4.9mb
                    e     10 46.44 433kmX
MCMT    95.60   41 eP     09 11.60    0.5
MCMT    95.60   41 eP     09 17.90    6.8X
BALM    95.73   17 (P)    09 09.83   -1.3
FBA     97.96   13 ePc    09 19.08   -1.9
        0.8s     3.71nm           5.0mb
ILT     98 06 360 iPd     09 23.00    1.8
RSSD   100.35   45 (Pdiff09 32.08   -0 6
        1.0s     5.61nm           5.1mb
      Z 21s      0.20um           4.6Msz
MIAR   102.55   57 Pdiff  09 50.00    7 6X
      Z 21s      0.23um           4.7Msz
YKA    105.55   26 ePdiff10 09.10   14.0X
        0.5s     0.10nm
YKA    105.55   26 ePKP   14 06.80   -1.5
        0.9s     0.60nm
MBC    112.50   13 ePKP   14 20.00   -1.1
        0.9s     1.00nm
ELT    116.99 318 iPKPc  14 27.30   -3.0X
        1.5s   149.00nm
NRI    119.46 336 iPKPd  14 34.00   -0.6
        1.0s    14.00nm
RSNY   119.87   53 PKP    14 50.00   13.8X
      Z 20s      0.13um           4.6Msz
CIR    121.38 213 iPKPd  14 42.70    2.9X
HRV    121.46   56 PKP    14 50.00   10.8X
      Z 21s      0.29um           4.9Msz
BUL    123.48 210 iPKPc  14 44.50    0.5
CBM    124.75   52 PKP    15 00.00   14.6X
      Z 19s      0.38um           5.1Msz
MTD    125.00 215 iPKPd  14 40.70   -6.2X
WIN    125.28 197 iPKPd  14 48.00    0.5
        0.6s    18.00nm
                    e     16 27.50
FRB    125.49   31 ePKP   14 45.00   -1.3
        1.0s     4.00nm
LMN    126.86   53 ePKP   14 52.50    2.9X
LSZ    127.94 213 iPKPc  14 54.00    1.4
SVE    131.87 321 ePKP   14 58.90    0.1
                    e     17 27.80
                    ePPP  20 21.00
                    eSSS  35 30.00
ASH    133.30 295 ePKP   15 02.00   -0.1
KAT    135.07 297 iPKP-  15 18.50   13.1X
KEV    138.16 347 ePKP   15 06.00   -4.3X
SHE    141.01 298 iPKP   15 12.50   -3.8X
        0.8s     45.00nm
MJMA   141.61 274 ePKP   15 15.00   -2.9X
GRS    142.78 296 iPKPd  15 15.00   -4.7X
AFIF   142.88 270 ePKP   15 16.67   -3.6X
MTA    143.87 300 iPKPd  15 19.20   -2.0
KAF    144.57 340 iPKP   15 19.00   -2.8
        0.8s    41.90nm
PUL    145.01 335 (PKP)  15 21.00   -1.6
        1.2s   220.00nm
OBN    145.15 325 iPKPc  15 21.60   -1.4
        1.5s   210.00nm
KIV    145.16 304 iPKPc  15 22.90   -0.7
        1.3s    41.00nm
NSS    145.33 352 iPKPc  15 21.24   -1.7

NUR    146.33 340 iPKP   15 25.20    0.4
        0.6s    46.10nm
UPP    148.74 345 iPKP   15 31.20    2.6
NB2    148.80 351 PKP    15 31.80    3.0X
        1.0s    50.20nm
NAO    149.06 351 PKP    15 31.12    2.0
HFS    149.28 348 ePKP   15 28.20   -1.3
        0.8s    45.70nm
      Z 17s    485.00um          8.4MszX
                    LR    02 46.00
SUE    149.34 357 ePKP   15 28.75   -0.8
BCAO   149.70 215 iPKPd  15 32.00    0.4
        0.5s    73.00nm
                    ic    15 37.00
                    ic    15 52.00
GAZ    150.00 292 iPKP   15 37.10    5.8X
MNK    150.12 329 ePKP   15 34.50    3.6X
        1.1s   138.00nm
KONO   150 35 352 ePKP   15 36.30    5.2X
AYN    150.35 276 ePKP   15 32.33    0.3
SIM    150.89 309 ePKP   15 39.00    6.6X
HRI    151.16 284 ePKP   15 33.40    0.1
HQL    151.25 276 ePKP   15 33.67    0.3
DSI    151.31 281 ePKP   15 33.00   -0.5
MBH    151.48 277 ePKP   15 33.60   -0.3
RMN    151.81 279 ePKP   15 34.10   -0.3
KAS    152.11 302 iPKPc  15 41.80    7.3X
LIC    155.03 164 PKP    15 50.00   10.9X
      Z 20s      0.31um           5.1Msz
MLR    155.93 315 ePKP   15 39.00   -0.7
                    e     21 12.00
                    e     34 58.00
UZH    156.09 325 ePKP   15 51.00   11.4X
SPC    156.68 328 ePKP   15 40.90    0.3
KSP    156.96 336 ePKP   15 41.00    0.4
ZST    158.80 331 ePKP   15 42.50   -0.3
GEC2   159.55 337 PKP    15 43.20   -0.6
        1.1s     4.25nm
                    e     15 57.10
SKO    160.52 311 iPKP   15 44.00   -0.9
                    i     16 27.50
                    i     16 43.60
OHR    161.36 310 ePKP   15 45.30   -0.5
FLN    161.64   5 ePKP   15 45.00   -0.8
        1.2s    28.25nm
      Z 23s      0.65um
VBY    161.68 329 e(PKP) 15 45.00   -0.9
LDF    161.83   4 ePKP   15 46.10    0.1
HAU    162.15 350 ePKP   15 46.40    0.0
      Z 22s      0.47um
BSF    162.25 349 ePKP   15 46.50   -0.1
LPF    162.32   6 ePKP   15 46.50    0.0
        2.0s    68.80nm
LOR    163.15 355 ePKP   15 47.80    0.4
      Z 21s      0.25um
SSF    163.38 356 ePKP   15 40.00   -7.6X
        1.1s     9.30nm
LBF    163.42 355 ePKP   15 48.00    0.3
        1.3s    14.10nm
MFF    163.81   5 ePKP   15 48.40    0.4
BGF    163.91 358 ePKP   15 48.70    0.5
TCF    164.20 359 ePKP   15 48.70    0.2
LPL    164.50 347 ePKP   15 49.30    0.3
LPG    164.51 347 ePKP   15 49.20    0.1
RJF    165.18   1 ePKP   15 49.80    0.5
CAF    165.56 359 ePKP   15 50.20    0.5
        0.9s     5.55nm
     S.D. = 1.2   on 101 of 151 obs.
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    MAY 19, 1993  12h 03m 28.37± 0.17s
     8.347 S ± 3.5km  121.992 E ± 4.1km
    DEPTH =  39.7km  (  6 depth phases)
    5.8mb ( 50 obs.)
 FLORES REGION, INDONESIA          (286)
      Mw 5.6 (HRV). Felt in the
      Bajawa-Larantuka area. Also felt
      (II) at Waingapu, Sumba.
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 36S, 71C
      Centraid Location:
      Origin Time        12:03:32.7 0.4
      Lat  8.25S 0.05 Lon 122.43E 0.05
      Dep  15.0 BDY Half-duration  1.4
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 1.83 0.09  Mtt=-1.81 0.08
        Mff=-0.02 0.14  Mrt= 0.20 0.34
        Mrf= 2.49 0.25  Mtf=-1.15 0.08
      Principal Axes:
        T  Val= 3.61   Plg=54   Azm=261
        N       -0.75      29       39
        P       -2.87      20      140
      Best Double Couple:Mo=3.2*10**17
        NP1:Strike=269 Dip=35 Slip= 146
        NP2:        28     71       60

WSI     2.14 232 iPc      04 03.40    1.0
                    iS    04 31.80
KHKI    6.32 269 eP       05 00.50   -1.0
                    eS    06 12.90
TRT     9.29 273 ePd      05 44.00    1.1
MTN    10.03 117 eP       05 49.50   -3.6X
TSM    13.21 342 ePc      06 40.00    4.0X
LEM    14.33 275 iPd      06 49.00   -1.8
        1.0s   160.00nm          5.6mb
                    iS    09 48.00
CTB    15.60    8 ePc     07 14.00    6.8X
DAV    15.74   13 eP      07 12.00    3.0X
        1.6s  1066.67nm          5.8mb
WB2    16.62 135 iPd      07 14.40   -5.7X
        0.6s   267.30nm          5.5mb
                    eS    10 09.30
CGP    16.91    9 iPd     07 28.50    4.7X
PPR    18.29 350 ePc      07 44.00    3.0X
MEEK   18.47 190 eP       07 41.00   -2.2
        0.6s   164.00nm          5.4mb
                    eS    10 52.00
ASPA   19.03 145 iPc      07 46.60   -3.4X
        1.0s  1028.20nm          6.0mb
      Z 19s     11.10um          5.8Msz
                    eS    11 07.50
PLP    19.61    9 ePd     07 57.00    0.5
PGP    21.73 357 ePc      08 21.00    2.7X
TGY    22.33 357 ePd      08 32.00    7.7X
QVP    22.84 358 eP       08 44.50   15.2X
MUN    24.12 192 eP       08 41.00   -0.6
        0.5s   205.00nm          5.9mb
      Z 20s      6.60um           5.1Msz
BAG    24.64 357 eP+      08 47.60    0.7
                    eS    13 13.20
BCP    24.64 357 eP       08 48.20    1.2
NWAO   24.85 190 eP       08 48.30   -0.4
      Z 23s      2.10um           4.6MszX
PMG    24.89   94 eP      08 49.00   -0.1
CTA    26.21 119 iPc      09 01.20   -0.3
        1.0s   135.00nm          5.5mb
                    i     09 08.00   24kmX
                    i     09 17.00
                    i     09 22.00
                    i     10 11.00
                    eScS  20 11.00
QLP    27.83 133 iPd      09 16.60    0.4
STK    29.67 145 eP       09 31.90   -0.9
        1.1s    24.40nm          4.9mb
                    eS    15 19.70
ADE    30.61 152 iPd      09 41.10    0.0
HKC    31.41 346 eP       09 51.00    2.9X
                    eS    15 05.00
GUA    31.47   47 eP      09 48.50   -0.3
        0.9s   154.62nm          5.8mb
GUMO   31.47   46 eP      09 47.80   -1.0
        1.1s   192.00nm          5.8mb
PJG    31.47   46 eP      09 48.30   -0.5
NST    32.22 318 eP       09 57.50    2.2
LOE    32.49 322 eP       09 58.00    0.3
KHT    32.66 315 iPd      10 01.00    1.9
BDT    34.10 318 eP       10 06.50   -5.1X
        0.8s   125.00nm          5.9mb
BRS    34.73 127 iPc      10 17.50    0.5
        0.7s    29.00nm          5.3mb
                    i     10 21.50   14kmX
                    i     10 31.60
                    i     11 21.00
                    eS    15 48.00
                    e(SS) 17 59.00
CHTO   35.29 320 iPc      10 23.80    2.0
        1.1s    73.91nm          5.5mb
                    eS    16 08.70
ARMA   35.35 132 iPd      10 24.00    1.6
        1.0s    86.00nm          5.6mb
BWA    35.54 141 iPc      10 25.60    1.7
CAN    36.49 141 eP       10 32.30    0.5
                    ePP   11 48.30
CNB    36.71 141 iPc      10 34.40    0.7
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19d 12h

```
        1.0s    61.00nm          5.5mb
RIV    36 95 138 iPd    10 37.30   1.7
       0.9s  3361.34nm          7.2mb X
KMI    38.19 331 Pc+    10 49.50   3.1X
       1.2s   220.00nm          5.9mb
     Z  16s     4.10um          5.3MszX
     N  14s     2.50um
     E  14s     2.20um
                  sP    11 11.40
                  PPP   12 26.00
                  S     16 20.00
                  sS    16 46.00
SSE    39.22 359 P+     10 56.00   1.3
       2.0s   206.00nm          5.6mb
     Z  20s     1.40um          4.8Msz
     E  12s     0.60um
                  PP    12 28.00
                  S     16 28.00
                  PcS   16 58.00
                  SS    19 16.00
KUMJ   41.52  11 eP     11 13.20  -0.3
SHNJ   43.11  11 eP     11 24.20  -2.4
TKSJ   43.62  15 eP     11 30.40  -0.3
WKYJ   44.25  16 P      11 36.20   0.3
YONJ   44.63  13 P      11 39.40   0.5
TSRJ   45.60  16 P      11 47.30   0.7
CHJJ   46.97  19 eP     11 57.30  -0.1
MTMJ   47.10  17 P      11 58.60   0.1
MAT    47.18  18 iPc    11 58.70  -0.4
       1.3s   109.62nm          5.7mb
     Z  20s     0.71um          4.6Msz
                  eS    18 44.00
LZH    47.38 340 iPc    12 02.50   1.6
       1.8s   435.00nm          6.1mb
     Z  30s     1.78um          4.9MszX
     E  13s     0.99um
                  pP    12 12.50  33km
                  sP    12 17.50
                  eS    18 57.00
                  SS    22 26.00
NIIJ   48.07  18 P      12 05.50  -0.5
BJI    48.44 354 eP     12 09.00   0.2
       1.0s    66.00nm          5.6mb
     Z  20s     0 90um          4.8Msz
     N  16s     0.69um
                  ePP   14 04.00
                  eS    19 08.00
                  eSS   22 36.00
YAMJ   49.25  19 eP     12 15.90   0.8
GBA    49.32 296 P      12 14.00  -1.9
HYB    49.98 301 eP     12 20.00  -1.1
       1.0s    50.00nm          5.5mb
                  eS    19 26.00
GUN    50.18 317 P      12 22.20  -0.7
PKI    50.28 317 P      12 23.00  -0.6
KKN    50.51 317 P      12 24.80  -0.4
DMN    50.52 316 P      12 24.80  -0.5
OFUJ   50.60  20 eP     12 26.10   0.7
GKN    51.09 316 P      12 29.00  -0.5
AOMJ   51.53  18 eP     12 33.40   0.9
VLA    52.01   9 iPd    12 35.00  -1.0
       1.1s    51.00nm          5.4mb
                  e     12 53.00  71kmX
                  i     13 47.00
                  e     14 38.00
                  ePPP  15 39.00
                  eS    20 02.00
                  ePS   20 18.00
                  e     20 28.00
                  e     22 22.00
MRRJ   53.45  18 eP     12 47.30   0.6
HOOJ   54.11  19 eP     12 52.30   0.8
POO    54.48 300 eP     12 52.50  -2.3
KUSJ   55.22  20 eP     13 00.00   0.3
ASAJ   55.47  18 eP     13 01.70   0.2
VUN    55.64 106 eP     13 03.00  -0.1
THZ    55.77 135 P      13 04.10   0.2
                  e     13 16.30  43km
KHZ    56.45 136 eP     13 08.30  -0.4
                  e     13 18.00  32km
NDI    56.75 312 eP     13 10.00  -1.0
SNZO   56.88 134 P      13 10.50  -1.2
MNG    57.20 133 P      13 13.10  -1.0
                  e     13 24.80  40km
URZ    57.69 130 P      13 16.60  -0.9
YSS    58.12  17 ePc+   13 19.60  -0.7
     Z  19s     0.60um          4.7Msz
     N  19s     0.60um
     E  19s     0.50um
                  e     13 31.80  43km
                  e     14 07.00
                  eS    21 21.00
KUR    58.19  21 eP     13 21.00   0.2
       1.0s   190.00nm          6.1mb
                  eS    21 26.00
CSY    58.39 185 eP     13 22.10   0.2
       0.5s    13.50nm          5.3mb
                  e     14 13.20 226kmX
HBZ    58.43 129 P      13 22.90   0.3
                  e     13 28.40  18kmX
PUZ    58.51 130 P      13 22.60  -0.7
                  e     13 26.80  14kmX
PAF    59.37 217 e(P)   13 42.00  13.0X
CIT    60.54 354 eP     13 37.00   0.1
     Z  16s     0.68um          4.9MszX
                  eS    21 54.00
                  e     25 56.00
ZAK    60.71 346 iPc    13 38.00   0.0
     Z  16s     0.79um          5.0MszX
     N  15s     0.58um
                  e     17 28.00
                  eS    21 55.00
MOY    62.47 345 iPc    13 50.10   0.3
       1.9s   174.00nm          5.9mb
UER    64.33 341 iPKPdf14 03.00   0.9
       2.0s   200.00nm          5.8mb
PRZ    64.33 326 iPc+   14 03.50   0.9
       1.4s   120.00nm          5.8mb
OUE    65.24 309 eP     14 07.60  -1.1
TLG    65.41 326 iPc    14 09.90   0.5
       1.3s    80.00nm          5.6mb
                  e     16 33.00 771kmX
                  ePPP  18 07.00
                  eSS   27 08.00
FRU    66.72 324 eP     14 17.00  -0.7
       2.0s    60.00nm          5.3mb
                  e     14 40.00  90kmX
                  e     23 20.00
PET    68.61  23 eP     14 31.00   1.7
                  eS    23 36.00
YAK    70.41   4 iPc    14 39.90  -0.2
       1.9s   293.00nm          6.0mb
                  eS    24 38.00
MAW    70.86 200 iPc    14 43.80   0.9
       0.7s    38.89nm          5.5mb
MGD    71.96  15 ePc+   14 50.00   0.4
       0.9s    70.00nm          5.6mb
                  e     15 11.00  79kmX
                  eS    24 13.00
                  e     24 40.00
SBA    73.16 171 iPc    14 58.00   1.6
MAIO   73.49 312 iPc    14 58.20  -1.0
                  eS    24 28.00
TIK    79.94   2 iPc+   15 34.00  -0.3
       2.0s   410.00nm          6.1mb
     Z  18s     0.60um          5.0Msz
                  e     18 40.00
                  eS    25 34.00
NRI    81.03 348 iPc    15 40.00  -0.2
       2.0s    63.00nm          5.2mb
                  e     18 46.00
                  eS    25 48.00
SPA    81.70 180 iPc    15 44.80   0.8
       0.7s    65.63nm          5.8mb
     Z  18s     0.63um          5.0Msz
ABHA   82.49 290 eP     15 50.33   1.2
ARU    82.73 330 eP     15 49.00  -0.2
TAB    83.98 310 eP     15 57.00   0.7
MAK    84.54 315 eP     15 59.00   0.3
                  e     19 22.00
                  eS    26 26.00
                  ePS   27 40.00
NAI    85.06 269 iP     16 03.00   0.7
     Z  24s     1.63um          5.3MszX
GRO    85.86 315 iP+    16 05.00  -0.3
     Z  14s     1.00um          5.4MszX
     N  14s     1.50um
     E  14s     1.00um
                  i     16 19.00  48km
                  eS    26 40.00
ILT    86.70  19 iPd    16 10.00   1.1
       2.0s    69 00nm          5.5mb
                  i     19 37.00
                  iS    26 46.00
CIR    87.43 249 iPd    16 17.00   3.5X
PMO    87.98 105 iPc    16 18.80   2.7X
       1.6s   281.10nm          6.3mb
MTD    88.02 253 iPc    16 11.00  -5.4X
VAH    88.20 105 iPc    16 19.70   2.5X
       1.2s   105.30nm          6.0mb
TPT    88.25 105 iPc    16 20 20   2.8X
       1.3s   172.60nm          6.2mb
RUV    88.44 105 iPc    16 20.90   2.5X
       1.8s   274.50nm          6.3mb
NVL    88.68 198 iPc    16 21.00   2.5X
       1.6s   135.00nm          6.0mb
                  e     17 08.00 189kmX
                  iS    26 46.00
                  e     27 07.00
                  e     27 14.00
SEK    89.91 242 iPc    16 26.50   1.1
       0.7s    66.00nm          6.0mb
GRM    89.97 236 iPc    16 27.50   2.1
       0.8s    92.00nm          6.1mb
PRY    90.27 243 iPd    16 27.20   0.1
       0.5s    25.00nm          5.8mb
BLF    91.02 241 iPc    16 31.20   0.7
       0.7s    44.00nm          6.0mb
LSZ    91.47 254 iPd    16 33.00   0.3
FRS    91.65 240 eP     16 32.00  -1.1
       1.3s    40.00nm          5.7mb
SNA    93.06 196 iPc    16 40.40   1.5
       0.8s    44.78nm          5.9mb
SUR    94.90 236 iPd    16 49.00   0.6
       1.0s    96.00nm          6.2mb
IMA    95.27  24 eP     16 49.29   0.1
       1.2s     7.89nm          5.0mb
CER    95.92 235 eP     16 47.00  -5.8X
       0.5s    25.00nm          6.0mb
SLKM   96.11  30 eP     16 51.20  -1.8
VOY   108.52 316 ePKP   22 04.30   9.6X
                  ePP   22 14.00
YKA   112.37  25 ePdiff18 16.70  11.1X
       0.6s     0.20nm
YKA   112.37  25 ePKP   21 59.00  -2.4
       0.6s     1.00nm
TUC   125.70  56 ePKP   22 27.43  -0.6
RSSD  126.50  40 ePKP   22 28.10  -1.3
LTX   132.39  58 ePKP   22 40.31  -0.6
MIAR  138.23  46 ePKP   22 51.50  -0.2
FVM   138.46  40 ePKP   22 49.71  -2.3
GPD   144.33  22 ePKP   23 00.51  -1.7
NAV   144.53  32 ePKPc  23 00.49  -2.2
PAL   144.54  21 ePKP   23 00.19  -2.4
FSA   144.90 167 iPKPc  23 04.00   0.4
JSC   146.48  36 ePKP   23 05.23  -0.8
                  ePKPbc23 07.07
CEH   146.50  32 ePKP   23 06.54   0.5
VAO   147.02 199 ePKP   23 11.00   3.7X
HJA   147.81 167 ePKPd  23 11.40   3.0X
YJA   148.80 167 ePKPc  23 12.60   1.9
PPD   149.10 192 ePKP   23 15.40   4.8X
RIFB  149.92 200 ePKPc  23 18.10   6.2X
                  e     23 19.60
                  e     23 23.40
NNA   152.45 137 ePKP   23 21.20   5.4X
       1.0s    25.00nm
CNCB  153.13 158 PKP    23 16.00  -1.3
CCH   153.20 163 PKP    23 25.00   7.9X
LPB   153.34 158 PKP    23 20.80   3.4X
ZOBO  153.57 158 iPKPc  23 19.00   1.0
       1.0s    60.50nm
                  LR    14 40.00
     S.D. = 1.1  on 118 of 150 obs.
-------------------------------------
% MAY 19, 1993  12h 29m 02.31± 0.76s
   44.397 N ± 7.3km     7.385 E ± 8.5km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                   (545)
      ML 1.7 (GEN).

ENR     0.17 172 P       29 05.86  -0.4
                 S       29 08.56
PZZ     0.23 298 P       29 07.50   0.2
                 S       29 11.54
ROB     0.36 106 P       29 09.71  -0.1
                 S       29 15.05
BHB     0.45 349 P       29 11.39  -0.1
                 S       29 17 84
IMI     0.61 143 P       29 15.07   0.5
     S.D. = 0.5  on   5 of   5 obs.
```

? MAY 19, 1993 12h 34m 05.87± 2.70s
42.378 N ±23.1km 23.968 E ±12.6km
DEPTH = 10.0km (geophysicist)
BULGARIA (359)

SRS	1.29	193	ePb	34 28.92	-0.9
			eSb	34 49.96	
KNT	1.46	214	ePb	34 31.68	-0.5
			eSb	34 54.32	
VAY	1.49	225	iPn	34 31.50	-1.1
SOH	1.62	197	ePb	34 33.68	-1.0
GRG	1.84	220	iPb	34 40.04	2.2
SKO	1.92	259	ePn	34 39.00	0.0
OUR	2.04	180	ePn	34 42.16	1.5
ALN	2.15	133	ePn	34 42.00	-0.2
			eSn	35 10.64	

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

% MAY 19, 1993 13h 40m 10.70± 1.09s
39.509 N ± 9.8km 29.958 E ±18.8km
DEPTH = 30.0 ± 11.0 km
TURKEY (366)
ML 2.8 (ISK).

ALT	0.47	165	iPg	40 20.80	0.1
			iSg	40 27.50	
EYL	1.07	8	ePn	40 29.00	-0.7
YLV	1.15	337	ePn	40 30.10	-0.7
HRT	1.33	350	ePn	40 33.60	0.2
GBZT	1 34	343	ePn	40 34.90	1.5
			eSg	40 54.80	
KCT	1.44	301	ePn	40 34.60	-0.3

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

& MAY 19, 1993 13h 47m 09.49s
61 693 N 150.680 W
DEPTH = 56.5km
SOUTHERN ALASKA (2)
<AEIC>. ML 3 0 (AEIC), 3.0 (PMR).

SUA	0.23	188	iPc	47 19.16	0.2
			eS	47 27.38	
PWA	0.38	96	P	47 20.10	0.0
			S	47 29.00	
SKT	0.50	306	iPd	47 20.35	-0.9
			eS	47 29.50	
PMS	0.70	129	iPc	47 23.10	-0.6
CGLM	0.74	239	ePd	47 23.81	-0.5
PLRM	0.75	97	iPc	47 23.43	-0.8
			eS	47 35.20	
PMR	0.75	97	iPd	47 23.20	-1.0
			eS	47 34.66	
CRP	0.83	240	iPd	47 24.21	-1.2
			eS	47 35.77	
CPAM	0.83	239	iPd	47 24.91	-0.5
			eS	47 37.68	
SPU	0.84	233	iPd	47 24.78	-0.7
			eS	47 37.05	
GHO	0.84	84	ePd	47 25.02	-0.5
CKN	0.86	238	ePd	47 25.31	-0.4
CP2	0.86	241	iPd	47 25.11	-0.8
CKT	0.88	237	ePd	47 25.29	-0.8
			eS	47 37.89	
BGL	0.93	243	eP	47 25.85	-0.8
CKL	0.94	239	iPd	47 26.02	-0.8
NKA	0.99	196	ePc	47 28.62	1.2
SML	1.12	83	ePd	47 28.42	-0.9
PTE	1.15	135	ePc	47 28.88	-0.7
			eS	47 44.82	
SLKM	1.21	169	iPc	47 29.23	-1.2
			eS	47 46.61	
MPA	1.37	151	eP	47 31.81	-0.8
HUR	1.38	20	ePc	47 32.34	-0.4
			eS	47 50.28	
RDT	1.40	217	eP	47 32.47	-0.7
PWL	1.41	125	P	47 33.00	-0.2
DFR	1.47	222	ePc	47 33.43	-0.7
			eS	47 52.75	
CFI	1.49	109	ePd	47 32.85	-1.4
			eS	47 53.16	
NCT	1.58	225	ePc	47 34.97	-0.6
			eS	47 55.52	
RDW	1.60	221	ePc	47 35.36	-0.6
			eS	47 55.93	
SCM	1.60	83	ePd	47 34.88	-1.0
			eS	47 55.85	
SEW	1.70	159	eP	47 36.67	-0.6
TRF	1.77	6	ePc	47 36.95	-1.5
			eS	47 58.68	
RND	1.92	25	eP	47 39.28	-1.1
INW	2.02	217	eP	47 41.27	-0.6
VLZ	2.17	103	eP	47 41.64	-2.1
			eS	48 07.92	
CNPM	2.19	187	eP	47 44.19	0.0
MCK	2.20	21	eP	47 43.80	-0.5
KLU	2.28	93	ePd	47 43.47	-2.0
HIN	2.41	121	eP	47 44.71	-2.6
SVW	2.45	258	eP	47 44.67	-3.1
TZL	2.52	80	eP	47 47.84	-0.8
SDG	2.56	69	eP	47 48.67	-0.6
PDB	2.57	224	eP	47 48.34	-1.2
CVA	2.66	114	eP	47 49.91	-0.7
PAX	2.75	60	eP	47 51.46	-0.7
TTA	2.78	299	eP	47 49.95	-2.6
WRH	3.03	22	eP	47 53.84	-2.2
CDD	3.14	209	eP	47 57.66	0.0
RAGM	3.20	112	eP	47 58.37	-0.1
HDA	3.21	30	eP	47 56.89	-1.7
CCB	3.24	22	eP	47 56.53	-2.4
GLB	3.30	91	eP	47 58.27	-1.6
			eS	48 34.68	
FBA	3.47	21	eP	47 59.07	-3.2
CROM	3.77	101	eP	48 04.55	-2.0
TGL	3.91	100	eP	48 07.40	-1.1
BALM	4.07	96	eP	48 08.44	-2.3
CTGM	4.56	95	eP	48 15.25	-2.4
IMA	4.59	345	eP	48 14.42	-3.6

57 obs. associated

• MAY 19, 1993 13h 47m 44.07± 1.39s
38.106 N ± 8.1km 26.873 E ±12.1km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
ML 3.4 (ISK).

IZM	0.42	46	iPg	47 52.70	0.0
			eSg	47 57.70	
CIN	1.09	117	iPd	48 03.00	-1.5
YER	1.48	130	iPn	48 12.00	1.2
EZN	1.77	346	ePn	48 14.90	0.0
KHL	2.10	83	ePn	48 19.60	-0.2
EDC	2.37	19	ePn	48 23.50	0.0
KGT	2.37	8	iPn	48 22.60	-0.9
BNT	2.39	20	ePn	48 23.60	-0.3
KCT	2.43	28	ePn	48 25.10	0.6
ALT	2.71	69	ePn	48 29.00	0.5
YLV	3.13	37	ePn	48 35.00	0.6

S.D. = 0.8 on 11 of 11 obs.

• MAY 19, 1993 13h 59m 03.44± 1.02s
51.209 N ±16.1km 178.064 W ± 9.4km
DEPTH = 33.0km (normol)
4.0mb (10 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS. (7)

ADK	1.09	51	ePd	59 23.37	0.9
			eS	59 31.11	
SMY	5.08	291	(P)	00 19.22	0.0
			eS	01 29.61	
SDN	11.29	62	(P)	01 41.77	-3.6X
SVW	15.87	43	eP	02 50.10	4.4X
KDC	16.17	56	eP	02 47.24	-2.3X
	0.3s		5.59nm		4.2mb
TTA	16.67	37	eP	02 58.34	2.5
	0.8s		2.49nm		3.4mb
SLKM	18.05	48	eP	03 11.92	-1.2
PMS	18.60	46	eP	03 19.70	-0.1
IMA	19.36	31	eP	03 27.83	-1.1
	0.7s		2.30nm		3.6mb
KLU	20.35	47	eP	03 39.86	0.5
FBA	20.80	37	eP	03 42.69	-1.2
	0.6s		2.94nm		3.8mb
INK	27.34	35	eP	04 52.50	5.8X
MBC	33.59	22	eP	05 42.00	0.0
	0.6s		1.00nm		3.9mb
YKA	35.01	46	eP	05 52.40	-2.0
	0.5s		0 60nm		3.8mb
DUG	45.46	77	(P)	07 21.06	0.0
	0 4s		2.75nm		4.5mb
BW06	45.92	73	eP	07 23.97	-0.8
	0.6s		2.10nm		4 2mb
GSC	46.00	86	(P)	07 25.58	0.2
MSU	46.87	79	(P)	07 32.44	0.1
SRU	47.52	77	eP	07 37.59	0.2
RSSD	48.40	68	eP	07 47.79	3.6X
	0.7s		1.21nm		4.0mb
OLY	61.32	68	(P)	09 19.09	1.2
KBA	81.60	352	iPc	11 19.90	0.7
	0.5s		4.80nm		4.8mb
			i	11 35.80	

S.D. = 1.1 on 17 of 22 obs.

& MAY 19, 1993 14h 13m 22.58s
37.137 N 117.768 W
DEPTH = 0.0km
4.9mb (47 obs.) 4.2Msz (4 obs.)
CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. MD 4.9 (GM), 5.0 (PAS). ML 5.2 (BRK), 4.9 (GS). Felt (IV) at Big Pine, California and (III) at Bishop, Independence, Lone Pine, Majave and Reedly, California. Also felt at Dyer and Beatty, Nevada.

CWCR	0.56	310	P	13 33.90	0.2
BHPR	0.60	286	P	13 34.72	0.2
ORC	0.86	305	P	13 39.59	-0.3
BONR	0.92	333	iPc	13 40.56	-0.4
CLKR	0.96	299	P	13 41.29	-0.6
TNP	1.04	25	iPd	13 43.33	0.0
MEMM	1.07	300	iPc	13 43.44	-0 2
WLHM	1.08	204	P	13 43.09	-0.9
VPEM	1.19	182	P	13 45.20	-0.5
WCHM	1.28	191	P	13 46.62	-0.7
WORM	1.49	195	P	13 50.52	-0.2
WSHM	1.52	171	P	13 50.95	-0.2
FRI	1.56	265	iP	13 51.59	0.0
FRI	1.56	265	P	13 55.52	3.9
ISA	1.58	201	iPnc	13 51.62	-0 3
			eS	14 12.30	
WBSM	1.62	191	P	13 52.64	-0.1
WJPM	1.82	199	P	13 55.43	0 0
KVN	1.93	352	eP	13 57.02	-0.1
GSC	1.99	157	iPd	13 57.31	-0.7
TEJ	2.04	202	P	14 00.00	1.3
PHBM	2.06	245	P	14 00.71	1.8
PWMM	2.08	251	P	14 01.00	1.8
BMTC	2.11	199	P	14 00.00	0.3
PKEM	2.17	241	ePnc	14 00.96	0.5
PARM	2.25	248	P	14 02.13	0.4
CMB	2.26	294	ePc	14 01.73	-0.2
			eS	14 30.87	
PCRM	2.38	245	P	14 03.76	0.2
CTM	2.39	241	P	14 04.30	0.5
PSRM	2.39	239	P	14 05.44	1.7
PMRM	2.40	237	P	14 05.51	1.6
MCUM	2.41	291	P	14 04.09	0.1
FTC	2.44	202	P	14 07.94	3.5
MRFM	2.45	298	P	14 04.36	-0.2
YEG	2.45	227	P	14 04.65	0.0
PRCM	2.45	250	P	14 04.46	-0.2
GHC	2.46	239	P	14 04.48	-0.2
PTRM	2.46	234	P	14 04.69	-0.1
PHAM	2.49	239	iPnc	14 04.70	-0.3
PSMM	2.51	246	P	14 05.51	0.0
PSTM	2.51	242	P	14 05.13	-0.3
PMCM	2.53	237	P	14 07.21	1.6
PRI	2.53	248	iP	14 05.51	-0.3
ABL	2.57	208	ePnc	14 05.45	-0.9
WKR	2.57	240	P	14 07.80	1.5
PTV	2.59	248	P	14 06.48	0.0
LLA	2.60	259	iP	14 07.33	0.7
			eS	14 40.34	
MOP	2.60	250	P	14 06.73	0.0
BCH	2.70	225	iPnc	14 07.59	-0.6
PKM	2.79	217	P	14 09.02	-0.5
PMGM	2.80	233	P	14 09.31	-0.3
ASMM	2.85	307	P	14 10.47	0.1
PANM	2.87	243	P	14 10.42	-0.1
SSK	2.92	179	ePn	14 10.74	-0.6
			eS	14 57.88	
ARJM	2.96	302	P	14 12.00	0.2
SAO	2.97	264	ePnc	14 11.22	-0.7
PRS	3.00	256	eP	14 11.78	-0.6
ARN	3.01	275	iPnc	14 12.32	-0.2
AFHM	3.05	309	P	14 13.28	0.2
MHC	3.10	275	ePc	14 13.84	0.0
			eS	14 56.50	

19d 14h

AHRM	3.12	304	P	14	14.22	0.2	GAC	32.53	61	eP	19	56.00	-1.2		1.4s	29.50nm		5.3mb					
ARRM	3.14	302	P	14	15.18	0.9	FBA	32.98	337	eP	20	00.51	-0.4	LPL	83.73	36	eP	25	54.60	-0.4			
JBZM	3.22	269	P	14	15.64	0.3		1.3s	6.50nm			4.4mb			0.7s	7.30nm		5.0mb					
PEC	3.28	171	iPd	14	15.80	-0.5	RSNY	33.22	63	eP	20	00.17	-3.1	LPG	83.75	36	eP	25	55.00	-0.2			
GCC	3.38	269	eP	14	16.31	-1.4		1.2s	22.18nm			5.0mb			1.2s	21.40nm		5.3mb					
STAN	3.53	276	ePc	14	20.78	1.0	JAO	33.28	46	ePd	20	01.50	-2.2	KHC	83.89	30	P	25	55.40	0.0			
			eS	15	16.01		SVW	33.70	328	eP	20	04.45	-2.9		1.3s	12.00nm		5.0mb					
AOHM	3.54	310	P	14	19.98	0.0		1.1s	16.47nm			4.9mb		GEC2	84.16	30	P	25	56.40	-0.5			
ABRM	3.55	305	P	14	23.13	3.1	IMA	35.62	336	eP	20	24.50	0.7		1.0s	9.02nm		5.0mb					
BKS	3.63	283	ePc	14	20.69	-0.5		0.8s	3.00nm			4.2mb				e		26	02.00				
			eS	15	12.03		CBM	37.59	59	eP	20	36.96	-3.5	WTTA	84.57	32	iPd	25	59.00	-0.1			
ZSP	3.66	284	eP	14	21.29	-0.3		1.6s	38.30nm			4.9mb			1.1s	18.10nm		5.2mb					
ORAM	3.69	310	P	14	21.77	-0.4	HON	38.17	257	P	20	50.00	4.4	OJC	85.31	26	eP	26	01.50	-1.0			
ORV	3.80	311	eP	14	23.11	-0.6	Z	19s	0.36um			4.2Msz		KBA	85.43	31	iPd	26	02.50	-0.9			
			eS	15	22.46		MBC	39.21	359	eP	20	54.00	0.4		1.4s	15.80nm		5.0mb					
PLM	3.85	169	iPd	14	23.94	-0.6		1.0s	5.00nm			4.1mb		OBN	85.54	14	iP	26	03.00	-0.5			
OSUM	3.86	305	P	14	24.81	0.3	FRB	39.60	32	eP	20	56.00	-1.0		1.5s	84.00nm		5.7mb					
OGOM	3.93	311	P	14	25.44	-0.1		0.9s	9.00nm			4.4mb		ZAK	85.64	335	eP	26	04.00	-0.1			
NTYM	4.07	289	ePn	14	26.75	-0.8	LMN	39.97	60	ePc	21	02.00	1.6		1.3s	11.00nm		4.9mb					
GAXM	4.24	293	P	14	29.17	-0.8	ILT	45.30	332	iPc	21	43.80	0.3	ZST	86.01	28	eP	26	05.70	-0.3			
MIN	4.39	318	ePc	14	32.06	-0.1		1.2s	19.00nm			4.9mb		SOP	86.23	29	eP	26	06.50	-0.6			
			eS	15	39.91		TIK	61.99	341	eP	23	44.50	-1.9	SPC	86.33	26	iP	26	08.80	0.9			
LSLM	4.42	319	P	14	32.84	0.3		1.3s	33.00nm			5.4mb		SVE	86.41	1	ePd	26	06.00	-1.8			
GMCM	4.55	293	P	14	32.90	-1.4			e		24	25.00		SRO	86.79	28	iP	26	09.70	-0.1			
MSU	4.64	71	iPnd	14	34.54	-1.2	NNA	62.18	134	iPc	23	46.50	-1.8	VBY	87.48	31	e(P)	26	12.60	-0.6			
DUG	4.93	50	ePnd	14	39.22	-0.7		0.9s	12.60nm			5.1mb		UZH	87.52	25	eP	26	13.00	-0.3			
			ePg	14	55.75		YAK	67.31	332	eP	24	19.70	-1.3		1.4s	40.00nm		5.5mb					
			eS	16	00.29		ZOBO	70.75	129	(P)	24	49.00	5.5	ELT	87.60	346	iPc	26	13.00	-0.6			
WDC	5.07	314	ePc	14	40.68	-1.0	Z	20s	0.12um			4.1Msz			1.4s	14.00nm		5.1mb					
			eS	15	57.02				LR		49	46.00		SKO	92.90	29	iP	26	37.40	-1.3			
LBFM	5.28	324	ePnc	14	45.26	0.3	LPB	70.97	129	P	24	43.70	-0.9	OHR	93.38	30	eP	26	40.30	-0.7			
HVU	6.03	38	ePn	14	53.31	-2.1	CNCB	71.25	129	P	24	41.90	-4.6	VAY	93.90	29	iP	26	42.70	-0.5			
			ePg	15	15.31		NRI	72.08	351	eP	24	48.00	-2.0	WRA	115.77	264	PKP	32	07.80	-1.3			
SRU	6.04	69	ePnd	14	55.34	-0.3		1.8s	27.00nm			5.1mb			0.7s	0.40nm							
DAU	6.05	55	ePnc	14	57.01	1.2			e		25	04.00		BCAO	122.00	54	iPKPc	32	19.00	-2.1			
			ePg	15	17.69		NB2	73.71	23	P	24	57.80	-2.0		0.7s	6.00nm							
			eS	16	33.40			0.6s	2.20nm			4.4mb		CER	144.95	97	ePKP	33	01.00	-2.4			
FHC	6.07	309	(P)	14	54.33	-1.5	HFS	75.19	23	eP	25	06.40	-1.9	SUR	145.84	95	ePKP	33	03.00	-2.2			
EMUT	6.07	62	ePn	14	56.79	0.7		0.4s	2.00nm			4.5mb		BUL	146.21	69	iPKPc	33	05.20	-0.8			
			ePg	15	18.04		Z	18s	102 00um			7.2MszX			0.8s	15.30nm							
			eS	16	33.18				LR		53	07.00		FRS	148.48	87	ePKP	33	09.50	0.3			
TUC	7.50	128	ePn	15	14.92	-1.1	UPP	76.60	21	iP	25	14.30	-1.9		1.0s	10.00nm							
			eS	17	18.49		KAF	76.92	16	iP	25	16.80	-1.3	BLF	148.91	86	ePKP	33	13.00	2.9			
BW06	8.45	46	ePnd	15	29.51	0.0		0.6s	4.40nm			4.8mb		PRY	148.98	81	ePKP	33	12.00	1.7			
			eLg	17	57.04		NUR	77.94	18	eP	25	22.70	-0.9		0.8s	6.25nm							
MCMT	8.53	24	iPd	15	32.90	2.3	FLN	77.98	37	eP	25	23.30	-0.8	SLR	149.04	78	ePKP	33	12.00	1.6			
VGB	8.67	346	(P)	15	31.51	-0.8	LDF	78.27	37	eP	25	24.40	-1.3		0.8s	11.19nm							
TPMT	8.88	29	ePd	15	37.70	2.4	MAT	78.44	307	eP	25	25.00	-1.9	MAW	149.48	180	iPKP	33	13.00	3.4			
BGMT	9.17	26	ePd	15	41.60	2.3		0.9s	6.72nm			4.7mb			0.9s	26.67nm							
HBMT	9.47	22	ePd	15	44.80	1.2	MFF	79.63	38	eP	25	32.40	-0.8	SEK	149.72	83	ePKP	33	15.50	4.1			
LRM	9.55	23	eP	15	45.80	1.2		0.8s	7.00nm			4.7mb			0.6s	16.67nm							
SHW	9.64	341	(P)	15	44.84	-0.9	TCF	81.01	37	eP	25	39.50	-1.1	GRM	150.73	93	ePKP	33	17.00	4.4			
LCCM	9.75	25	ePd	15	48.80	1.5		1.1s	14.15nm			4.9mb			0.9s	8.40nm							
LON	10.06	344	(P)	15	51.86	0.4	SSF	81.08	36	eP	25	39.80	-1.1		206 obs. assaciated								
BMW	10.18	338	(P)	15	55.45	2.4		1.2s	22.90nm			5.1mb		----------									
DPW	10.73	358	(P)	16	01.92	1.3	LOR	81.10	36	eP	25	40.00	-1.0	& MAY 19, 1993 14h 48m 30.93s									
GMW	11.04	342	(P)	16	05.36	0.5		0.9s	14.90nm			5.0mb		37.076 N 117.752 W									
NEW	11.13	2	eP	16	05.37	-0.7	BGF	81.13	37	eP	25	39.80	-1.4	DEPTH = 0.4km									
RSSD	12.54	52	eP	16	23.48	-1.9	AVF	81.20	37	eP	25	40.20	-1.3	CALIFORNIA-NEVADA BORDER REGION (40)									
LTX	14.13	119	eP	16	47.10	0.8		1.0s	9.60nm			4.8mb		<GM-P>. MD 3.1 (GM), 3.0 (PAS).									
ACO	14.91	86	iPd	16	57.10	0.7	MAF	81.23	37	eP	25	40.70	-1.0	ML 3.5 (BRK).									
MEO	15.71	93	iPc	17	07.10	0.2		1.0s	16.60nm			5.0mb											
OCO	16.44	90	iPc	17	22.10	5.9	LFF	81.24	39	eP	25	41.20	-0.5	CWCR	0.61	314	P	48	42.86	-0.2			
FNO	16.55	90	iPc	17	21.00	3.3	LBF	81.36	36	eP	25	41.10	-1.3	BHPR	0.63	291	P	48	40.62	-2.9			
UYO	19.16	92	iPc	17	48.50	-1.6		0.8s	4.85nm			4.6mb		BCKR	0.79	322	P	48	46.38	-0.4			
MIAR	19.77	90	iPd	17	55.88	-1.3	RJF	81.37	39	eP	25	41.40	-1.1	CASR	0.81	308	P	48	46.95	-0.1			
	1.7s	265.82nm				5.3mb		1.1s	23.70nm			5.2mb		ORC	0.91	308	P	48	48.65	-0.5			
ULM	20.46	43	ePd	18	04.60	0.3	SMF	81.54	36	eP	25	41.90	-1.4	BONR	0.98	334	eP	48	50.10	-0.5			
FVM	21.67	79	eP	18	15.39	-1.4		0.9s	7.70nm			4.8mb					eS	49	09.34				
	1.3s	104.71nm				5.1mb	LPO	81.65	39	eP	25	43.00	-0.9	CLKR	1.00	301	P	48	50.25	-0.7			
ELC	22.70	81	ePd	18	26.51	-0.5	HAU	81.70	34	eP	25	43.10	-1.0	MCSM	1.08	303	P	48	52.04	-0.4			
PPM	24.60	132	(P)	18	47.50	1.3	CDF	81.81	33	eP	25	43.80	-1.0	TNP	1.09	23	eP	48	52.24	-0.2			
YKA	25.46	3	eP	18	52.20	-1.3		1.0s	7.80nm			4.8mb					eS	49	06.75				
	0.9s	5.80nm				4.3mb	MOX	81.91	30	eP	25	45.30	0.2	MEMM	1.11	302	iPc	48	52.34	-0.4			
FCC	26.56	28	eP	19	07.50	3.8	CAF	81.91	38	eP	25	44.10	-1.2				eS	49	07.39				
NAV	29.32	78	iPd	19	27.42	-1.7		1.0s	10.00nm			4.9mb		WCHM	1.22	192	P	48	54.59	-0.1			
BLA	29.64	78	eP	19	30.00	-1.9	CLL	81.93	29	iPc	25	44.80	-0.4	WORM	1.43	196	P	48	57.27	-0.9			
EEO	30.07	59	eP	19	36.00	0.4		1.2s	13.00nm			4.9mb		ISA	1.53	203	P	48	58.36	-1.2			
CEH	30.97	80	eP	19	41.74	-1.9	BSF	82.03	34	eP	25	44.00	-1.9	GSC	1.93	156	eP	49	03.90	-1.5			
	0.7s	47.23nm				5.5mb	EPF	82.38	41	eP	25	46.60	-1.2	KVN	1.99	352	ePn	49	06.40	0.0			
PMS	31.28	331	eP	19	47.70	1.5	GRF	82.50	31	ePd	25	48.60	0.4				eS	49	32.74				
	1.2s	14.00nm				4.8mb		1.4s	37.00nm			5.4mb		PKEM	2.15	243	(P)	49	09.19	0.7			
PMR	31.32	331	(P)	19	43.59	-2.8	Z	20s	0.30um			4.7Msz		PARM	2.24	249	P	49	11.69	1.9			
	0.8s	6.40nm				4.6mb	BRG	82.64	28	iPc	25	48.90	0.0	CMB	2.30	295	ePd	49	10.69	-0.1			
Z	21s	0.26um				3.9Msz		1.0s	12.00nm			5.0mb					eS	49	42.10				
INK	32.43	349	eP	19	57.00	0.9	KSP	83.54	27	eP	25	53.20	-0.4	MARC	2.44	212	P	49	15.96	3.3			
	1.0s	5.00nm				4.4mb	PRU	83.58	29	P	25	53.20	-0.6	MCUM	2.45	292	P	49	15.21	2.4			

PHAM	2.47	241	ePn	49	13.35	0.3
BRMM	2.47	265	P	49	15.92	2.8
ABL	2.52	209	ePn	49	14.27	0.3
			eS	49	47.97	
MNHM	2.66	295	P	49	19.19	3.5
BCH	2.67	226	ePn	49	15.88	-0.1
SSK	2.86	179	(P)	49	18.08	-0.7
SAO	2.98	265	ePc	49	24.23	3.9
			eS	50	06.40	
ARN	3.03	276	ePn	49	21.23	0.1
MHC	3.12	276	eP	49	25.56	3.2
			eS	50	09.50	
PLM	3.78	169	ePn	49	30.40	-1.6
MSU	4.65	70	ePn	49	44.46	0.3

31 obs. ossociated

MAY 19, 1993 15h 00m 16.97± 0.69s
44.844 N ± 3.6km 6.776 E ± 6.1km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.4 (GEN).

RRL	0.08	5	P	00	19.31	-0.3
			S	00	21.41	
BHB	0.35	90	P	00	24.44	0.3
			S	00	30.78	
PZZ	0.41	145	P	00	24.87	-0.5
			S	00	31.52	
RSP	0.46	48	P	00	26.81	0.5
			S	00	33.49	
DOI	0.48	135	Pc	00	26.00	-0.7
			eSg	00	33.10	
LSD	0.67	24	P	00	30.12	-0.3
			S	00	39.41	
ENR	0.77	143	P	00	31.63	-0.4
			S	00	42.57	
ROB	0.96	125	P	00	35.24	0.0
CKI	1 15	111	P	00	39.00	0.5
			eSg	00	55.00	
IMI	1 23	139	P	00	39.96	0.1
PCP	1 30	103	P	00	41.74	0.7
CDR	1 38	212	e(Pg)	00	42.90	0.7
			e(Sg)	00	59.60	
GEC2	6.21	47	Pn	01	50.50	-0.5

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

MAY 19, 1993 15h 22m 24.67± 0.60s
26.360 S ± 6.2km 27.392 E ± 8.9km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 3.0 (PRE). mbLg 2.9 (BUL).

PRY	0.57	173	iPd	22	36.20	0.1
			S	22	43.50	
BFS	0.76	225	eP	22	40.00	-0.1
			S	22	49.60	
SLR	1.01	52	eP	22	45.00	0.6
			S	22	58.10	
SEK	1.97	174	eP	22	59.90	0.7
SWZ	2.02	246	eP	23	01.20	1.3
			S	23	26.30	
BLF	2.94	201	eP	23	12.00	-1.1
			S	23	49.00	
FRS	3.84	208	eP	23	25.00	-0.7
BUL	6.29	11	ePn	24	00.00	-0.5
			iSn	25	10.00	
			iSg	25	41.00	
CIR	6.56	37	iPn	24	04.00	-0.3
			iSn	25	14.00	
			iSg	25	48.40	

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

& MAY 19, 1993 15h 55m 29.38s
59.956 N 152.623 W
DEPTH = 103.9km
SOUTHERN ALASKA (2)
<AEIC>.

INE	0.24	296	ePc	55	43.75	0.7
			eS	55	55.01	
INW	0.28	294	ePc	55	43.87	0.8
			iS	55	55.82	
RDW	0.54	350	ePd	55	45.49	-0.8
			eS	55	57.28	
NCT	0.63	346	ePd	55	46.02	-0.9
			eS	55	58.62	
RDT	0.63	10	eP	55	45.96	-0.9
DFR	0.64	357	iPd	55	46.26	-0.7
			eS	55	59.04	
XLV	0.68	137	ePc	55	46.15	-1.1
AUL	0.71	216	ePd	55	46.84	-0.6
			eS	56	00.95	
AUE	0.71	213	eP	55	46.26	-1.2
			eS	56	00.31	
AUI	0.74	214	eP	55	46.83	-1.0
			eS	55	59.92	
PDB	0.81	259	iPc	55	47.71	-0.7
			eS	56	01.43	
CNPM	0.82	121	iPc	55	47.77	-0.8
			eS	56	01.86	
BRLK	0.90	102	ePc	55	48.56	-0.8
			eS	56	03.29	
CDD	1.15	207	iPd	55	50.86	-1.3
			eS	56	08.08	
MCNL	1.17	229	iPd	55	51.12	-1.1
			eS	56	07.27	
CKL	1.25	6	iPd	55	52.75	-0.6
			eS	56	10.51	
SPU	1.26	13	iPd	55	52.78	-0.6
			eS	56	10.81	
CKT	1.27	9	iPd	55	52.84	-0.6
			eS	56	11.08	
CKN	1.29	10	iPd	55	53.30	-0.4
BGL	1.32	5	iPd	55	53.67	-0.4
SLKM	1.32	64	eP	55	52.76	-1.3
CPAM	1.32	10	iPd	55	53.75	-0.5
CP2	1.33	8	iPd	55	53.91	-0.4
CRP	1.34	10	iPd	55	53.94	-0.5
SYI	1.36	175	eP	55	53.36	-1.1
			eS	56	11.72	
CGLM	1.39	12	ePd	55	54.53	-0.4
SEW	1.60	83	eP	55	56.14	-1.3
MPA	1.71	70	ePc	55	57.81	-1.1
SUA	1.77	31	ePd	55	59.36	-0.4
			eS	56	22.19	
SVW	1.88	309	P	56	00.20	-0.9
PMS	1.99	48	P	56	02.20	-0.3
			S	56	24.70	
PTE	2.01	61	eP	56	01.32	-1.3
SKT	2.10	14	eP	56	03.22	-0.7
PWA	2.17	37	P	56	04.50	-0.3
			S	56	31.00	
KDC	2.22	178	P	56	03.20	-2.2
GHO	2.57	43	ePc	56	08.96	-1.3
			eS	56	38.57	
SML	2.80	47	ePc	56	11.65	-1.7
HIN	3.09	79	eP	56	15.37	-1.9
			eS	56	50.92	
SCM	3.20	52	eP	56	17.04	-1.7
VLZ	3.32	67	eP	56	19.09	-1.2
			eS	56	29.41	
TTA	3.40	333	P	56	19.70	-1.8
CVA	3.48	77	eP	56	20.92	-1.5
KLU	3.64	62	eP	56	22.89	-1.8
			eS	57	02.26	
TRF	3.68	17	eP	56	24.70	-0.7
SGAM	3.74	78	eP	56	23.40	-2.6
RND	3.90	26	eP	56	27.05	-1.3
GLB	4.58	67	ePc	56	36.24	-1.4
CROM	4.78	76	eP	56	39.04	-1.4
TGL	4.93	76	eP	56	40.93	-1.6
WRH	5.00	23	eP	56	41.51	-1.9
HDA	5.19	28	eP	56	44.24	-1.8
BALM	5.20	74	ePc	56	44.62	-1.6
CCB	5.22	23	eP	56	44.23	-2.1
YAH	5.45	81	eP	56	48.51	-1.3
CTGM	5.68	75	eP	56	51.77	-1.1

55 obs. ossociated

? MAY 19, 1993 15h 58m 06.73± 1.77s
7.969 S ±17.9km 131.915 E ±38.7km
DEPTH = 33.0km (normal)
4.0mb (2 obs.)
TANIMBAR ISLANDS REG., INDONESIA(281)

MTN	4.91	189	eP	59	20.50	0.4
	0.4s		79.00nm			
			eS	00	24.00	
WB2	12.14	169	iPc	00	59.00	-1.4
			eS	03	17.60	
ASPA	15.72	173	eP	01	48.30	0.7
	0.5s		6.70nm		4.1mb	
			eS	04	47.10	
STK	25.44	161	eP	03	36.50	3.3X
	0.4s		1.20nm		3.8mb	
BRS	27.63	137	iP	03	54.00	0.5
CNCB	148.48	141	PKP	17	48.00	-1.6
LPB	148.62	141	PKP	17	51.00	1.3
ZOBO	148.80	141	PKP	17	43.00	-7.2X

S.D. = 1.5 on 6 of 8 obs.

& MAY 19, 1993 16h 24m 50.13s
37.136 N 117.835 W
DEPTH = 0.1km
CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. MD 3.2 (GM), 3.1 (PAS).
ML 3.5 (BRK), 3.1 (GS).

CWCR	0.52	314	P	25	00.46	0.0
BCKR	0.70	323	P	25	03.82	-0.4
CASR	0.72	308	P	25	04.48	0.0
BONR	0.90	336	eP	25	07.17	-0.9
CLKR	0.91	300	P	25	07.93	-0.4
MCSM	1.00	302	P	25	09.57	-0.6
MEMM	1.03	301	iPc	25	10.06	-0.4
			S	25	24.65	
TNP	1.06	27	eP	25	09.85	-1.4
VPEM	1.18	179	P	25	12.69	-0.6
WCHM	1.27	189	P	25	14.56	-0.2
TPNV	1.28	98	ePc	25	13.47	-1.5
			S	25	31.60	
WORM	1.47	193	P	25	17.85	-0.2
FRI	1.51	265	iP	25	18.24	-0.2
			eS	25	38.10	
WSHM	1.53	169	P	25	19.29	0.5
ISA	1.56	200	ePd	25	18.28	-0.9
WBSM	1.61	189	P	25	19.95	-0.2
WJPM	1.80	197	P	25	23.62	0.9
PKEM	2.12	240	(P)	25	28.29	1.0
PARM	2.20	247	P	25	30.21	1.7
CMB	2.22	295	ePc	25	28.35	-0.4
			eS	25	58.61	
MCUM	2.36	292	P	25	33.52	2.7
BRMM	2.41	264	P	25	33.59	2.1
YEG	2.41	226	P	25	34.66	3.0
BMSM	2.42	260	P	25	33.00	1.3
CRGC	2.43	220	P	25	35.04	3.1
LLA	2.55	259	eP	25	32.96	-0.5
BAVM	2.59	282	P	25	35.54	1.4
EKH	2.72	261	P	25	37.72	1.9
LTR	2.79	266	P	25	37.95	1.0
SAO	2.92	264	eP	25	39.22	0.5
PRS	2.95	255	eP	25	39.32	0.1
MHC	3.04	275	ePc	25	42.11	1.5
			eS	26	29.15	
PEC	3.28	170	(P)	25	42.53	-1.4
ORV	3.76	311	(Pn)	25	50.11	-0.6
			Pg	25	57.72	
MSU	4.69	71	(Pn)	26	01.71	-2.3
HVU	6.07	39	(Pn)	26	23.53	0.1
SRU	6.09	69	(Pn)	26	26.80	3.0

37 obs. ossociated

% MAY 19, 1993 17h 00m 51.40± 1.26s
31.458 S ±15.0km 69.412 W ±14.7km
DEPTH = 120.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTBS	0.21	190	iPd	01	07.90	-0.5
RTCB	0.52	93	ePc	01	10.00	0.1
ZON	0.63	98	eP	01	11.50	0.9
RTLL	0.82	81	iPd	01	12.20	0.1
CFA	1.01	99	iPc	01	14.00	0.1
			S	01	30.60	
RTPR	2.75	66	ePd	01	35.50	0.5
MRA	3.29	108	e(P)	01	42.20	0.0
TCA	4.12	90	iPd	01	52.60	-1.0
			S	02	39.50	
CYA	4.34	47	ePc	01	56.20	-0.3

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

? MAY 19, 1993 17h 21m 28.59± 0.96s
41.031 N ± 8.2km 23.208 E ± 7.3km
DEPTH = 10.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)

SOH	0.24	152	ePg	21	34.21	0.5
			iSg	21	37.66	
KNT	0.27	299	iPg	21	34.46	0.2
			eSg	21	38.80	
SRS	0.30	73	ePg	21	34.64	-0.3

19d 17h

			eSg	21 38.72		
THE	0.44	205	ePg	21 37.08	-0.5	
			eSg	21 44.80		
S.D. = 0.8			on	4 of 4 obs.		

MAY 19, 1993 17h 23m 31.71± 1.41s
37.922 N ±13.6km 20.200 E ± 6.4km
DEPTH = 18.9 ± 6.4 km
3.5mb (1 obs.)
IONIAN SEA (399)

IGT	1.61	4	ePb	23 58.40	-0.9	
			eSb	24 20.44		
SRN	1.96	356	ePn	24 06.30	1.9	
AGG	2.00	56	iPn	24 07.28	2.3	
			eSn	24 39.92		
TPE	2.37	357	ePn	24 12.50	2.2	
LIT	2.81	39	ePn	24 16.84	0.3	
			eSn	25 00.56		
LCI	2.98	325	P	24 18.10	-0.7	
FNA	3.00	17	ePn	24 19.16	0.0	
OHR	3.22	8	iPn	24 22.80	0.4	
SOI	3.28	274	P	24 23.50	0.4	
			eSn	25 02.40		
ROI	3.28	301	P	24 23.50	0.2	
PAIG	3.37	53	ePn	24 24.44	0.0	
TIR	3.43	356	ePn	24 24.00	-1.3	
TDS	3.48	301	P	24 28.10	2.1	
ATN	3.75	275	P	24 30.50	0.6	
			eSn	25 13.30		
BRT	3.75	323	P	24 29.20	-0.7	
SOH	3.79	39	ePn	24 30.60	0.1	
			eSn	25 13.84		
OUR	3.80	50	ePn	24 31.20	0.6	
KNT	3.85	32	ePn	24 30.72	-0.5	
VAY	3.86	28	ePn	24 27.00	-4.3X	
SRS	4.13	38	iPn	24 32.37	-2.9	
SKO	4.16	13	ePn	24 34.00	-1 6	
			i	25 19.00		
MGR	4.24	303	P	24 36.60	-0.2	
			eSn	25 23.30		
MEU	4.27	261	P	24 36.90	-0.4	
			eSn	25 24.60		
MNO	4.35	272	P	24 37.00	-1.6	
SGO	4.62	306	P	24 42.50	0.3	
VBY	8.43	336	eP	25 29.00	-6.7X	
			e(Sg)	25 35.00		
HFS	22.61	352	eP	28 31.30	-1.0	
0.4s		0.70nm			3.5mb	
S.D. = 1.3			on	25 of 27 obs.		

% MAY 19, 1993 18h 23m 44.90± 0.37s
39.229 S ± 4.6km 174.835 E ± 5.8km
DEPTH = 170.0km (geophysicist)
NORTH ISLAND, NEW ZEALAND (159)

CNZ	0.55	87	P	24 09.80	0.6	
BSZ	0.57	173	P	24 10.40	1.3	
			S	24 27.90		
NGZ	0.60	85	Pd	24 10.10	0.7	
MOZ	0.72	358	Pd	24 10.20	0.3	
			S	24 28.20		
WAHZ	1.27	112	Pc	24 14.60	0.4	
MNG	1.47	160	iPc	24 16.60	0.5	
			S	24 37.90		
WLZ	1.48	24	Pc	24 16.90	0.7	
			S	24 39.40		
KIW	1.63	178	iPc	24 18.00	0.3	
TEHZ	1.70	117	Pd	24 18.90	0.4	
DIW	1.72	204	P	24 18.90	0.3	
PAHZ	1.77	79	P	24 19.30	0.2	
MOH	1.80	88	P	24 19.90	0.4	
CAW	1.89	175	Pc	24 20.70	0.3	
MTW	1.99	165	Pc	24 21.30	-0.3	
MRW	2.00	183	Pc	24 21.80	0.1	
			S	24 47.40		
URZ	2.02	62	P	24 20.80	-1 1	
			S	24 46.50		
TCW	2.03	192	Pc	24 22.30	0.4	
WEL	2.06	181	Pc	24 22.30	0.1	
BLW	2.19	167	Pc	24 23.50	-0.3	
MOW	2.21	172	Pc	24 23.70	-0.4	
ORZ	2.38	227	Pc	24 25.50	-0.6	
			S	24 56.30		
CCW	2.56	190	Pc	24 28.70	0.5	
NOZ	2.57	77	P	24 27.60	-0.7	
KUZ	2.57	16	Pd	24 28.80	0.5	
			S	25 02.40		
PUZ	2.92	68	P	24 31.30	-1.3	
			S	25 04.40		
THZ	2.93	210	P	24 32.00	-0.7	
			S	25 08.70		
HBZ	3.17	60	Pc	24 34.80	-0.9	
KHZ	3.33	197	Pc	24 37.40	-0.3	
			S	25 15.40		
DSZ	3.42	222	Pc	24 37.60	-1.3	
LTZ	4.05	208	P	24 45.20	-1.7X	
			S	25 30.40		
ODZ	6.59	207	P	25 18.00	-2.4X	
TUZ	7.74	208	eP	25 33.40	-2.2X	
S.D. = 0.7			on	29 of 32 obs.		

% MAY 19, 1993 18h 54m 59.55± 0.94s
42.172 N ± 7.0km 18.894 E ± 5.8km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 2.2 (TTG).

BDV	0.12	336	iPgc	55 03.09	0.5	
			iSg	55 05.63		
ULC	0.34	128	iPgc	55 06.50	0.0	
			iSg	55 11.87		
TTG	0.37	46	iPgc	55 07.21	0.0	
			iSg	55 13.10		
HCY	0.40	313	iPgc	55 07.68	-0.1	
			iSg	55 14.06		
NKY	0.64	7	iPgc	55 12.06	-0.5	
			iSg	55 21.75		
BRY	0.77	341	iPgd	55 14.41	-0.3	
			iSg	55 26.10		
PVY	0.90	62	iPgd	55 16.86	-0.1	
			iSg	55 30.25		
IVA	1.02	46	iPgd	55 18.95	0.1	
			iSg	55 34.19		
PLE	1.21	17	iPgc	55 22.65	0.4	
			iSg	55 40.59		
S.D. = 0.4			on	9 of 9 obs.		

* MAY 19, 1993 19h 01m 34.58± 1.07s
36.053 N ± 8.9km 28 401 E ± 7.5km
DEPTH = 13.0 ± 6.7 km
3.4mb (2 obs.)
DODECANESE ISLANDS (369)
ML 3.5 (ISK).

YER	1.08	355	iPg	01 56.00	1.3	
			iSg	02 05.00		
ELL	1.40	60	iPg	02 01.60	1.7	
			iSg	02 15.60		
CIN	1.56	351	iPgd	02 04.60	1.9	
			iSg	02 22.00		
BCK	2.25	51	iPn	02 12.50	0.4	
KHL	2.44	21	iPn	02 12.70	-2.0	
IZM	2.51	339	iPn	02 16.00	0.3	
KCT	4.19	360	iPn	02 38.40	-1.2	
EDC	4.31	355	ePn	02 40.00	-1.2	
ADI	6.36	116	eP	03 09.50	-0.8	
ATZ	6.53	118	eP	03 13.10	0.5	
			eS	04 19.70		
JVI	7.09	123	eP	03 20.80	0.3	
SALJ	7.27	122	P	03 22.90	-0.2	
MASJ	7.46	123	P	03 27.00	1.3	
SAGI	7.83	136	eP	03 31.40	0.4	
			eS	04 53.10		
SHWJ	8.20	132	P	03 34.80	-1.5	
ROI	10.00	294	P	04 02.40	1.5	
CZI	10.23	292	P	04 05.50	1.5	
GEC2	16.73	324	P	05 32.40	2.3	
0.5s		0.40nm			2.8mb	
LPG	18.87	307	eP	05 56.10	-0.8	
LPL	18.89	307	eP	05 56.90	-0.2	
SMF	21.18	308	eP	06 20.50	-1.2	
0.7s		4.50nm			4.0mb	
AVF	21.54	308	eP	06 23.90	-1.5	
SSF	21.54	308	eP	06 23.70	-1.7	
S.D. = 1.4			on	23 of 23 obs.		

MAY 19, 1993 19h 13m 55.80± 0.58s
37.060 N ± 6.0km 4.713 W ± 5.8km
DEPTH = 10.0km (geophysicist)
SPAIN (377)
mbLg 3.3 (MDD).

MAL	0.41	144	ePg	14 05.20	1.0	
			iSg	14 11.00		
LIJA	0.58	254	iP	14 08.00	0.3	
ELUO	0.61	35	ePg	14 10.00	1.8	
			eSg	14 20.00		
ALJ	0.81	242	iP	14 14.00	2.4	
EJIF	0.86	225	ePg	14 11.20	-1.1	
			eSg	14 23.50		
EHOR	0.87	331	ePg	14 14.00	1.4	
			eSg	14 27.00		
ECOG	0.94	76	ePg	14 14.10	0.3	
			eSg	14 27.00		
EGUA	0.95	103	ePg	14 13.30	-0.5	
			eSg	14 25.50		
GIBL	1.02	257	eP	14 18.00	2.9X	
PLAT	1.26	222	eP	14 18.00	-1.2	
CNIL	1.28	238	eP	14 19.00	-0.5	
EBAN	1.33	33	ePn	14 21.50	1.2	
			eSn	14 37.00		
EVIA	2.35	47	ePn	14 33.50	-1.7	
			eSn	15 02.00		
EPLA	3.19	341	ePn	14 45.50	-1.4	
			eSn	15 22.70		
GUD	3.60	7	ePn	14 51.30	-1.7	
			eSn	15 32.80		
ETOR	4.29	28	ePn	15 02.30	-0.3	
			eSn	15 50.00		
S.D. = 1.4			on	15 of 16 obs.		

MAY 19, 1993 20h 08m 07.69± 0.35s
37.246 N ± 2.9km 117.779 W ± 3.3km
DEPTH = 5.0km (geophysicist)
CALIFORNIA-NEVADA BORDER REGION (40)
ML 2.7 (GS).

CWCR	0.49	301	P	08 17.42	-0.1	
BHPR	0.57	276	P	08 18.68	-0.4	
BCKR	0.65	314	P	08 20.67	-0.1	
CASR	0.70	298	P	08 21.46	-0.2	
ORC	0.80	299	P	08 23.12	-0.7	
BONR	0.82	330	eP	08 24.30	0.0	
CLKR	0.90	293	P	08 24.96	-0.7	
TNP	0.95	28	eP	08 26.65	0.3	
MCSM	0.98	295	P	08 26.61	-0.4	
MEMM	1.01	295	iPc	08 26.82	-0.5	
			eS	08 40.00		
WLHM	1.17	202	P	08 29.34	-0.9	
TPNV	1.26	103	eP	08 32.11	0.5	
			eS	08 52.21		
VPEM	1.29	181	P	08 32.60	0.4	
WSHM	1.63	172	P	08 36.34	-0.8	
ISA	1.68	200	ePn	08 37.24	-0.6	
WBSM	1.73	190	P	08 39.02	0.2	
KVN	1.82	352	ePn	08 40.75	0.7	
			eS	09 07.35		
WOFM	1.87	204	P	08 42.14	1.4	
GSC	2.09	158	ePn	08 43.04	-0.9	
CMB	2.21	292	ePn	08 46.27	0.6	
			ePg	08 47.43		
PDRM	2.27	247	P	08 48.22	1.8X	
PARM	2.29	245	P	08 48.82	2.1X	
BRMM	2.47	261	P	08 51 43	2.1X	
BMSM	2.49	257	P	08 50.93	1.4	
HVC	2.59	251	P	08 52.31	1.3	
ABL	2.66	206	ePn	08 52.45	0.2	
			eS	09 26.48		
BCH	2.78	223	ePn	08 53.61	-0.1	
LTR	2.85	264	P	08 56.47	1.8X	
ARN	3.00	273	(Pn)	08 58.35	1.6X	
			eS	09 40.35		
ARUT	3.49	80	(Pn)	09 03.42	-0.5	
S.D. = 0.7			on	25 of 30 obs.		

MAY 19, 1993 20h 17m 11.87± 0.73s
39.683 N ± 7.1km 23.454 E ± 4.9km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

PAIG	0.30	35	ePg	17 18.26	0.2	
			eSg	17 23.50		
OUR	0.77	32	ePg	17 26.90	0.1	
			eSg	17 37.86		
LIT	0.85	300	iPg	17 27.50	-0.8	
			eSg	17 40.62		
THE	1.02	339	iPg	17 30.66	-0.5	
			iSg	17 46.25		
AGG	1.09	233	ePg	17 31.82	-0.6	
			iSg	17 48.18		

SOH	1.14	356	iPg	17	33.29	0.1
			eSg	17	49.21	
SRS	1.44	4	iPb	17	37.54	-0.4
			eSb	17	57.14	
GRG	1.51	328	ePb	17	37.86	-1.1
			eSb	18	00.06	
KNT	1.54	344	iPb	17	39.06	-0.3
			eSb	18	01.38	
VAY	1.77	338	iPn	17	42.40	-0.3
FNA	1.93	305	ePb	17	45.56	0.4
			eSb	18	11.42	
EZN	2.22	85	ePn	17	51.10	1.9
ALN	2.32	58	ePn	17	50.58	-0.2
IGT	2.42	267	iPn	17	52.82	0.8
			iSn	18	23.74	
OHR	2.48	306	iPn	17	55.00	2.0
			i	18	01.80	
			i	18	26.60	
			i	18	37.10	
			Lg	18	53.50	
SRN	2.67	275	eP	18	01.80	6.2X
TPE	2.71	284	eP	18	01.80	5.5X
SKO	2.75	327	iPn	17	55.30	-1.5
			i	17	59.40	
PHP	3.04	312	eP	18	03.50	2.6
KGT	3.05	74	iPn	17	59.40	-1.6
VLO	3.14	286	eP	18	03.50	1.3
TIR	3.20	302	eP	18	07.50	4.3X
ROI	5.32	271	P	18	32.00	-1.3
CZI	5.69	268	P	18	37.40	-1.0
MLR	6.09	17	eP	18	50.00	5.9X
VRI	6.63	20	eP	18	52.00	0.2

S.D. = 1.2 on 22 of 26 obs.

? MAY 19, 1993 20h 39m 57.09± 1.54s
13.960 N ±26.0km 90.978 W ±14.2km
DEPTH = 33.0km (normal)
4.3mb (4 obs.)
NEAR COAST OF GUATEMALA (71)

TPX	1.56	307	iP	40	23.00	0.2
SCX	3 19	330	eP	40	54.50	8.5X
IISM	7.91	310	(P)	42	02 50	9.7X
PPM	8.92	306	(P)	42	06.00	-1.2
			iS	42	50 00	
ALO	25.13	329	eP	45	22.40	1.5
	1.0s		7 50nm			4.2mb
EEO	34.08	15	eP	46	45.00	4.4X
LRM	36.57	335	eP	47	03.20	1.2
JAO	41.53	14	eP	47	43.00	0.1
FCC	44.78	358	eP	48	14.50	5.3X
YKA	51.30	346	eP	48	58.70	-1.1
	0 6s		2.30nm			4.3mb
FRB	52.13	12	eP	49	05.00	-1.2
	1.0s		4.00nm			4.3mb
INK	60.76	343	eP	50	08.50	0.8
MBC	64.08	353	eP	50	29.00	-0.7
HFS	85.16	29	eP	52	31.40	0.4
	0.4s		0.40nm			4.0mb
WRA	136.34	256	PKP	59	18.00	0.0
	0.6s		0.60nm			
GBA	150.31	23	PKP	59	48.00	6.0X

S.D. = 1.1 on 11 of 16 obs.

? MAY 19, 1993 20h 44m 37.89± 0.98s
50.310 N ±16.8km 19.041 E ± 6.0km
DEPTH = 10.0km (geophysicist)
POLAND (548)
ML 3.0 (WAR).

OJC	0.49	100	iPgc	44	47.80	-0.1
			iSg	44	55.10	
RAC	0.59	248	eP	44	50.00	0.2
			eS	44	58.00	
SPC	1.37	145	iPn	45	03.30	0.2
			iSn	45	22.50	
			Lg	45	24.00	
KSP	1.83	288	ePn	45	10.20	0.6
			iPg	45	12.70	
			iS	45	36.80	
ZST	2.47	212	eP	45	24.70	5.9X
PRU	2.91	265	ePn	45	24.10	-1.0
			ePg	45	31.40	
			eSg	46	05.90	
BRG	3.30	282	ePg	45	45.40	14.8X
			eSg	46	25.10	
KHC	3.74	254	ePn	45	37.00	0.1
	0.6s		2.70nm			
			ePg	45	48.40	
			eSn	46	11.00	
			eSg	46	29.40	
CLL	3.96	287	(Pg)	45	52.00	12.1X
			eSg	46	46.00	
KBA	4.97	232	eP	46	07.00	12.6X
			e	47	02.00	
			e	47	17.00	

S.D. = 0.7 on 6 of 10 obs.

% MAY 19, 1993 21h 29m 32.25± 2.93s
42.056 N ±32.0km 15.712 E ±11.1km
DEPTH = 10.0km (geophysicist)
ADRIATIC SEA (382)

DUI	1.02	248	P	29	52.00	0.5
BAI	1.27	137	P	29	56.50	0.6
SDI	1.46	257	P	29	58.40	-0.3
			eSg	30	17.30	
BRT	1.63	136	P	30	00.60	-0.4
			eSg	30	25.80	
MGR	1.92	184	P	30	04.90	-0.4

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

MAY 19, 1993 21h 47m 06.68± 0.31s
12.522 S ± 5.2km 166.941 E ± 9.0km
DEPTH = 156.4km (3 depth phases)
4.8mb (10 obs.)
SANTA CRUZ ISLANDS (184)

BKM	5.27	166	iPd	48	26.20	1.6
			iS	49	28.00	
ARMA	22.76	216	iPc	51	58.90	2.5
	0.5s		44.00nm			5.2mb
OLP	25.50	233	eP	52	22.60	0.3
URZ	27.19	162	eP	52	37.70	0.2
BWA	27.55	215	eP	52	39.90	-0.9
			i	53	12.90	159km
CNB	27.71	212	iPd	52	43.30	1.0
	0.3s		8.00nm			4.9mb
			i	53	16.90	162km
CAN	27.91	213	iPd	52	44.50	0.4
			i	53	15.50	148km
MNG	28.98	167	P	52	53.50	-0.1
KIW	29.09	168	eP	52	54.30	-0.2
TCW	29.30	169	P	52	56.90	0.6
CAW	29.36	167	P	52	56.70	-0.2
MRW	29.40	168	P	52	56.60	-0.7
MTW	29.50	167	P	52	57.60	-0.5
THZ	29.59	171	P	52	59.70	0.7
BLW	29.69	167	P	52	58.60	-1.3
MOW	29.69	167	P	52	57.70	-2.2
STK	30.23	226	eP	53	05.10	0.4
	2.4s		8.50nm			4.0mb
KHZ	30.33	170	P	53	05.20	-0.2
LTZ	30.50	172	P	53	05.50	-1.5
TOO	31.46	214	iPd	53	16.10	0.6
	0.4s		14.00nm			5.1mb
WB2	32.10	252	iPd	53	19.80	-1.4
	0 8s		4.80nm			4.3mb
WRA	32.12	252	P	53	20.20	-1.1
	0.8s		1.50nm			3.8mb
ODZ	32.57	175	eP	53	25.10	0.2
ASPA	33.22	246	iPc	53	29.90	-1.0
	0.3s		9.20nm			5.0mb
TUZ	33.40	177	P	53	32.40	0.3
CHJJ	55.05	332	eP	56	23.00	-1.3
MAT	55.81	332	iPc	56	28.90	-1.0
SSE	61.72	316	P	57	09.50	-1.2
BJI	70.36	321	eP	58	05.50	0.2
KMI	72.88	301	Pd	58	22.50	1.5
	1.5s		50.00nm			5.0mb
			sP	58	35.00	
LZH	76.61	312	eP	58	43.50	1.6
	1.0s		25.00nm			4.9mb
BALM	83.52	22	(P)	59	18.64	0.6
FBA	84.36	18	(P)	59	22.14	0.2
	0.9s		6.02nm			4.4mb
LPL	143.06	337	ePKP	06	23.10	-0.8
LPG	143.06	337	ePKP	06	23.10	-0.9
SMF	143.12	341	ePKP	06	22.80	-0.9
	0.5s		2.25nm			
MAF	143.90	341	ePKP	06	24.40	-0.6
	0.7s		2.75nm			
TCF	143.95	342	ePKP	06	24.40	-0.7
	0.8s		2.55nm			
SBF	144.13	334	ePKP	06	24.60	-1.0
	0.8s		20.55nm			
LSF	144.19	343	ePKP	06	25.00	-0.5
	0.7s		6.05nm			
MFF	144.32	345	ePKP	06	25.60	-0.1
	0.8s		9.80nm			
PGF	144.48	331	ePKP	06	26.00	-0.3
FRF	144.71	335	ePKP	06	26.70	0.2
LRG	144.92	335	ePKP	06	27.70	0.9
LMR	144.95	335	ePKP	06	27.60	0.7
RJF	145.05	342	ePKP	06	28.20	1.2
CAF	145.22	341	ePKP	06	29.10	1.8
LFF	145.61	343	ePKP	06	29.00	1.1
	0.6s		7.20nm			
LPO	145.71	342	ePKP	06	30.20	2.1
	0.8s		4.15nm			
BCAO	147.76	258	iPKPc	06	36.00	3.6X
	0.4s		15.00nm			
			ic	07	14.00	

S.D. = 1.1 on 49 of 50 obs.

? MAY 19, 1993 21h 49m 56.21± 1.33s
38.019 N ±44.4km 14.193 E ± 7.9km
DEPTH = 5.0km (geophysicist)
SICILY (398)

GIB	0.13	257	P	49	57.90	-1.2
			eSg	50	01.00	
MNO	0.41	102	P	50	04.10	-0.3
			eSg	50	12.90	
ATN	1.01	82	P	50	15.40	-0.4
			eSg	50	30.10	
CVT	1.16	253	P	50	19.80	1.5
SOI	1.47	87	P	50	24.70	1.3

S.D. = 1.6 on 5 of 5 obs.

MAY 19, 1993 21h 55m 47.79± 0.46s
39.921 N ± 6.0km 19.715 E ± 3.7km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
ML 2.6 (TIR).

SRN	0.22	101	iPgd	55	52.30	-0.3
			iSg	55	56.70	
TPE	0.44	31	ePg	56	02.50	5.8X
VLO	0.57	343	ePg	55	58.50	-0.9
			iSg	56	07.00	
IGT	0.61	129	ePg	55	59.89	-0.3
			iSg	56	10.38	
LCI	1.41	288	Pc	56	12.50	-1.0
TIR	1.43	5	ePn	56	13.50	-0.2
			iSn	56	35.50	
OHR	1.45	34	iPn	56	13.50	-0.6
			iSn	56	35.70	
			Lg	56	39.10	
FNA	1.53	55	ePb	56	15.38	0.1
			eSb	56	37.38	
LACI	1.71	360	ePn	56	18.10	0.3
PHP	1.85	17	iPnc	56	22.00	2.2
			iSn	56	48.50	
BRT	2.14	297	P	56	27.70	3.6X
			eSg	56	59.20	
AGG	2.21	113	ePn	56	30.26	5.1X
			eSn	56	55.50	
GRG	2.30	62	ePn	56	26.78	0.5
SKO	2.43	32	iPn	56	27.70	-0.4
			i	56	55.00	
			iSg	57	06.70	
			Lg	57	18.50	
ROI	2.45	263	P	56	28.00	-0.5
BAI	2.48	300	P	56	28.00	-0.8
VAY	2.58	56	iPn	56	30.30	0.0
KNT	2.72	62	ePn	56	32.26	-0.1
CZI	2.86	257	P	56	35.10	0.9
SOH	2.92	71	ePn	56	35.50	0.3
PAIG	3.05	89	ePn	56	36.66	-0.2
MGR	3.20	275	P	56	41.10	2.0
OUR	3.30	81	ePn	56	40.62	0.1
SOI	3.40	238	Pc	56	41.70	-0.2
SGO	3.43	282	P	56	45.10	2.7
ATN	3.75	243	P	56	45.80	-1.1
ARV	6.20	307	P	57	19.10	-2.5

S.D. = 1.2 on 24 of 27 obs.

MAY 19, 1993 22h 02m 57.23± 0.62s
47.248 N ± 8.8km 9.259 E ± 5.0km
DEPTH = 10.0km (geophysicist)

19d 22h

GERMANY (543)
ML 2.9 (VIE), 2.8 (FUR), 2.6 (LDG).

FEL	1.05	307	ePg	03	18.05	0.9
MOTA	1.26	85	iPnc	03	20.00	-0.7
			iPg	03	21.20	
			iSn	03	38.00	
			iSg	03	39.80	
OGA	1.27	107	iPgc	03	22.40	1.5
SOTA	1.33	90	iPnd	03	21.70	-0.1
			iPg	03	22.50	
			iSn	03	39.80	
			iSg	03	41.70	
WATA	1.58	86	iPgd	03	26.10	0.6
			iSg	03	47.80	
WTTA	1.62	89	iPnc	03	26.50	0.4
			iPg	03	27.00	
			iSn	03	47.50	
			iSg	03	49.60	
FUR	1 64	55	iPgd	03	27.60	1.3
			iSg	03	50.00	
BSF	1.77	290	Pn	03	24.00	-4.2X
			Pg	03	33.30	
			Sg	03	55.10	
CDF	1 77	312	Pn	03	28.40	0.2
			Pg	03	32.60	
			Sg	03	55.40	
HAU	2.11	292	Pg	03	37.90	4.9X
			Sg	04	06.50	
LPL	2.46	226	Pn	03	37.70	-0.5
			Pg	03	44.30	
			Sg	04	18.20	
LPG	2.47	226	Pn	03	37.90	-0.5
			Pg	03	44.40	
			Sg	04	17.70	
GRF	2.77	27	ePg	03	50.20	7.7X
			eSg	04	28.30	
KBA	2.79	92	iPgc	03	47.60	4.6X
			iSg	04	23.60	
WET	3.08	51	eP	03	55.50	8.7X
GEC2	3.38	60	Pn	03	50.20	-1.0
			Pg	03	59.40	
			Sn	04	28.80	
			Sg	04	41.00	
KHC	3.45	55	Pn	03	50.00	-2.1
			ePg	04	03.50	
			eSn	04	30.50	
			eSg	04	44.00	

S.D. = 1.2 on 12 of 17 obs.

? MAY 19, 1993 22h 19m 03.39± 1.08s
28.243 S ±12.1km 26.797 E ±10.6km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)

SEK	0.73	96	eP	19	18.00	-0.1
			S	19	27.50	
BLF	1.02	212	iPc	19	24.00	0.8
PRY	1.44	25	iPd	19	30.50	0.2
FRS	1.98	220	e(P)	19	37.00	-0.9
			S	20	01.70	
KSR	2.37	2	eP	19	48.00	4.3X
			S	20	17.50	
SLR	2.83	28	e(P)	20	30.00	39.8X

S.D. = 1.2 on 4 of 6 obs.

MAY 19, 1993 22h 45m 33.95± 0.49s
37.162 N ± 4.3km 117.730 W ± 5.7km
DEPTH = 5.0km (geophysicist)
CALIFORNIA-NEVADA BORDER REGION (40)
ML 2.5 (GS).

BONR	0.91	330	eP	45	52.09	0.0
TNP	1.00	24	iPc	45	54.53	0.9
MEMM	1.09	298	eP	45	54.67	-0.1
TPNV	1.20	100	ePn	45	57.09	0.1
ISA	1.61	202	ePn	46	02.67	-0.5
KVN	1.91	351	ePn	46	06.46	-1.2
GSC	2.00	158	ePn	46	07.97	-0.9
CMB	2.28	293	ePn	46	13.13	0.2
			ePg	46	16.13	
ABL	2.60	208	ePn	46	17.73	0.1
BCH	2.74	225	(P)	46	20.33	0.8
SSK	2.94	179	(P)	46	22.99	0.5

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

% MAY 19, 1993 22h 59m 39.28± 0.82s
40.189 N ± 7.2km 16.013 E ± 7.1km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

MGR	0.36	262	P	59	46.50	-0.1
			eSg	59	52.10	
CSI	0.46	153	P	59	47.00	-1.7
TDS	0.59	155	P	59	51.00	-0.1
SGO	0.65	305	P	59	52.20	-0.1
			eSg	00	02.30	
ROI	0.75	145	P	59	55.20	1.2
CZI	0.97	174	P	59	58.60	0.8
BRT	1.14	52	P	00	00.60	0.0
			eSg	00	18.20	

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

% MAY 19, 1993 23h 10m 49.02± 0.71s
26.340 S ± 5.5km 27.452 E ± 7.1km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 3.0 (PRE).

PRY	0.59	178	eP	11	00.50	-0.3
			S	11	06.90	
KSR	0.69	313	iPc	11	03.00	0.2
			S	11	11.00	
BFS	0.82	227	eP	11	05.60	0.2
			S	11	16.70	
SLR	0.96	51	iPd	11	07.60	-0.2
			S	11	20.00	
SEK	1.98	176	eP	11	25.00	1.3
			S	11	49.50	
SWZ	2.08	246	eP	11	25.10	0.0
			S	11	51.10	
BLF	2.98	202	eP	11	37.50	-0.4
			S	12	11.50	
FRS	3.88	209	eP	11	50.00	-0.7

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

% MAY 19, 1993 23h 34m 38.82± 0.77s
38.064 N ± 7.6km 1.169 W ± 8.0km
DEPTH = 10.0km (geophysicist)
SPAIN (377)
mbLg 3.0 (MDD). Felt (III) in the Molina de Segura area.

EALH	0.29	224	ePg	34	45.00	0.2
			eSg	34	48.40	
ACU	0.75	53	ePg	34	53.06	-0.4
			eSg	35	03.50	
EVIA	1.19	299	ePg	35	01.11	-0.1
			eSg	35	17.10	
ENIJ	1.37	217	iPn	35	03.93	0.0
			eSn	35	21.80	
ECHE	1.53	6	ePn	35	06.93	0.7
			eSn	35	26.10	
EBAN	2.07	274	ePn	35	13.41	-0.6
			eSn	35	38.80	
EGUA	2.27	238	ePn	35	17.09	0.2

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

MAY 20, 1993 00h 37m 31.81± 0.54s
38.925 N ± 4.9km 27.836 E ± 6.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 3.0 (ISK).

IZM	0.69	221	iPg	37	45.00	-0.5
			iSg	37	56.00	
CIN	1.34	171	ePg	37	57.00	0.6
			iSg	38	14.00	
KCT	1.38	17	iPn	37	57.20	0.1
EDC	1.42	1	iPn	37	58.50	0.9
BNT	1.43	3	ePn	37	57.20	-0.6
KHL	1.45	114	ePn	37	57.80	-0.4
EZN	1.48	308	ePn	37	59.00	0.6
KGT	1.58	345	iPn	37	59.20	-0.7
ALT	1.78	85	ePn	38	03.00	0.1

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

& MAY 20, 1993 01h 17m 54.51s
37.190 N 117.762 W
DEPTH = 1.6km
3.7mb (1 obs.)
CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. MD 4.0 (GM), 3.9 (PAS).
ML 4.3 (BRK), 4.0 (GS).

BHPR	0.59	281	P	18	06.21	-0.1
BONR	0.88	331	iPd	18	11.54	-0.7
CLKR	0.94	296	P	18	12.57	-0.8
TNP	0.99	26	iPd	18	14.22	0.0
MEMM	1.05	297	iPc	18	14.58	-0.5
TPNV	1.23	101	ePnc	18	18.75	0.4
RCWM	1.24	176	P	18	17.88	-0.5
NMC	1.35	185	P	18	20.28	0.0
FRI	1.57	263	iP	18	23.39	-0.1
ISA	1.63	201	ePn	18	23.73	-0.7
			eS	18	46.08	
WOFM	1.82	205	P	18	27.64	0.4
KVN	1.88	352	ePd	18	27.71	-0.4
GSC	2.04	157	eP	18	29.96	-0.4
PHBM	2.09	244	P	18	32.88	1.9
PWMM	2.11	250	P	18	33.15	1.9
PKEM	2.20	240	ePn	18	33.17	0.5
MSTM	2.22	290	P	18	35.04	2.1
CMB	2.25	293	ePc	18	33.10	-0.3
			eS	19	04.05	
PARM	2.28	246	P	18	35.61	1.8
PCRM	2.41	244	P	18	37.15	1.4
CTM	2.42	240	P	18	36.79	0.8
PSRM	2.43	238	P	18	37.97	2.0
MRFM	2.43	297	P	18	38.93	2.9
PRCM	2.48	249	P	18	38.02	1.3
YEG	2.49	226	P	18	39.65	2.7
PTRM	2.50	233	P	18	38.56	1.6
PHAM	2.52	238	P	18	37.46	0.3
TMB	2.54	215	P	18	41.09	3.5
PSTM	2.54	241	P	18	39.43	1.8
PRI	2.56	247	eP	18	38.43	0.6
			eS	19	14.09	
PMCM	2.56	236	P	18	39.54	1.7
LLA	2.61	258	eP	18	39.25	0.7
PTV	2.61	246	P	18	40.86	2.3
ABL	2.62	207	ePn	18	38.81	0.0
			eS	19	16.15	
BAVM	2.64	281	P	18	41.14	2.2
BCH	2.74	224	eP	18	40.48	-0.1
PSAM	2.77	246	P	18	43.27	2.5
EKH	2.78	260	P	18	43.06	2.0
PMGM	2.84	233	P	18	43.40	1.6
PMGM	2.84	233	P	18	43.47	1.7
HJSM	2.86	264	P	18	44.41	2.4
PANM	2.90	242	P	18	44.32	1.7
SSK	2.97	179	ePn	18	43.75	-0.1
			e	18	51.01	
			eS	19	30.22	
SAO	2.98	263	ePn	18	43.31	-0.5
HSPM	3.00	270	P	18	46.04	1.9
ARN	3.01	274	ePn	18	44.47	0.2
			eS	19	29.40	
PRS	3.02	255	eP	18	44.37	0.0
MHC	3.10	274	ePc	18	45.33	-0.2
			eS	19	29.18	
LPC	3.12	211	P	18	50.93	5.1
BCWM	3.18	255	P	18	48.47	1.8
AMC	3.26	271	P	18	49.54	1.8
PEC	3.33	171	ePn	18	48.56	-0.2
			eS	19	40.65	
BPOM	3.36	255	P	18	50.02	0.9
GCC	3.39	269	eP	18	50.35	0.8
ARUT	3.49	79	ePn	18	50.42	-0.7
			ePg	19	01.83	
			eS	19	48.72	
BKS	3.62	282	ePc	18	54.69	1.8
			eS	19	45.73	
ORV	3.77	310	eP	18	57.22	2.2
PLM	3.90	169	ePn	18	56.83	-0.2
NTYM	4.06	289	ePn	19	00.03	1.0
MSU	4.62	72	ePn	19	06.76	-0.4
			ePg	19	21.85	
GLA	4.78	149	ePn	19	07.42	-1.9
			eS	20	27.52	
DUG	4.90	51	ePn	19	10.55	-0.6
			ePg	19	27.97	
WDC	5.03	314	(Pn)	19	12.72	-0.2
			eS	20	30.39	
LBFM	5.24	324	(Pn)	19	16.35	0.3
HVU	5.99	39	ePn	19	27.30	0.8
			eS	21	06.15	
DAU	6.01	56	ePn	19	27.43	0.4
			ePg	19	49.57	
SRU	6.02	69	ePn	19	27.28	0.3

			ePg	19	46.50	
TUC	7.53	128	eP	19	47.37	-0.7
BW06	8.41	46	eP	20	01.46	0.8
			eS	22	20.12	
LRM	9.50	23	eP	20	17.60	2.0
			e	20	58.70	
ULM	20.41	43	eP	22	36.00	0.5
YKA	25.41	3	eP	23	23.80	-0.9
	0.9s		1.50nm			3.7mb
FCC	26.51	28	eP	23	39.00	4.1
	73 obs. associated					

& MAY 20, 1993 01h 23m 06.06s
37.202 N 117.769 W
DEPTH = 0.7km
CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. MD 3.4 (GM), 3.2 (PAS).
ML 3.5 (BRK), 3.3 (GS).

CWCR	0.52	304	P	23	16.45	0.0
BCKR	0.69	316	P	23	19.61	-0.2
ORC	0.83	302	P	23	22.04	-0.6
CLKR	0.93	295	P	23	24.09	-0.4
TNP	0.98	26	iPd	23	25.79	0.1
MEMM	1.04	297	iPc	23	26.19	-0.4
			eS	23	39.59	
WLHM	1.13	203	P	23	27.71	-0.7
TPNV	1.24	101	ePn	23	30.52	0.4
			eS	23	47.49	
WCHM	1.34	191	P	23	32.00	0.1
NMC	1.36	185	P	23	32.68	0.6
WORM	1.55	194	P	23	35.75	0.8
FRI	1.56	263	iP	23	35.00	-0.1
			eS	23	54.58	
WASM	1.59	204	P	23	36.36	0.7
ISA	1.64	201	ePn	23	36.07	-0.1
WOFM	1.83	205	P	23	39.30	0.2
KVN	1.86	352	ePn	23	39.21	-0.4
			ePg	23	41.27	
			eS	24	07.11	
GSC	2.05	157	ePn	23	41.30	-0.9
			eS	24	15.77	
PHBM	2.09	244	P	23	44.50	1.8
MSTM	2.21	289	P	23	47.10	2.6
CMB	2.24	293	ePc	23	44.43	-0.5
			eS	24	14.22	
ARVC	2.24	203	P	23	49.52	4.6
MRFM	2.42	296	P	23	50.45	2.9
YEG	2.50	226	P	23	51.27	2.6
PTRM	2.50	233	P	23	53.84	5.2
PHAM	2.52	238	ePn	23	50.13	1.2
			eS	24	25.80	
PRI	2.56	246	eP	23	50.83	1.3
			eS	24	10.66	
MNHM	2.59	292	P	23	53.10	3.2
LLA	2.61	258	eP	23	50.48	0.3
ABL	2.62	207	ePn	23	52.23	1.7
BCH	2.75	224	ePn	23	53.35	1.1
EKH	2.78	260	P	23	55.22	2.6
PCL	2.82	268	P	23	56.00	2.9
CMPM	2.83	274	P	23	56.95	3.6
SAO	2.98	263	ePn	23	55.30	-0.1
SSK	2.99	179	ePn	23	55.71	0.0
ARN	3.01	274	ePn	23	56.28	0.5
PRS	3.02	254	eP	23	55.16	-0.8
MHC	3.09	274	ePc	23	56.98	-0.1
			eS	24	41.78	
ARUT	3.49	79	ePn	24	01.75	-1.1
			ePg	24	15.64	
BKS	3.61	282	ePc	24	06.73	2.3
ORV	3.76	310	(Pn)	24	07.97	1.5
			ePg	24	14.11	
PLM	3.91	169	eP	24	08.28	-0.6
MSU	4.62	72	ePn	24	18.38	-0.5
			ePg	24	33.52	
GLA	4.79	149	ePn	24	19.06	-2.2
DUG	4.89	51	ePg	24	39.28	16.5
HVU	5.98	39	(Pn)	24	38.80	0.7
			ePg	24	58.88	
			eS	26	16.94	
SRU	6.02	69	(Pn)	24	39.43	0.8
	47 obs. associated					

? MAY 20, 1993 01h 28m 03.10± 3.87s
35.907 S ±31.5km 179.447 E ±25.6km
DEPTH = 116.6 ± 29.0 km
4.7mb (3 obs.)

OFF E. COAST OF N. ISLAND, N.Z. (160)

HBZ	1.92	208	eP	28	35.00	-0.8
PUZ	2.36	203	P	28	42.10	0.5
			S	29	17.70	
NOZ	2.93	202	eP	28	49.70	0.7
URZ	3.00	218	P	28	50.70	0.7
			S	29	34.00	
KUZ	3.12	253	eP	28	49.80	-1.8
MAHZ	3.50	200	eP	28	56.60	-0.2
PAHZ	3.51	212	eP	28	58.00	1.1
WLZ	3.66	236	eP	28	59.40	0.6
MOH	3.70	209	eP	29	00.20	0.8
WHH	3.79	217	P	29	00.20	-0.5
WAHZ	4.51	212	eP	29	09.90	-0.5
MOZ	4.52	234	eP	29	11.90	1.3
TEHZ	4.58	206	eP	29	09.10	-2.2
MNG	5.64	212	eP	29	22.80	-3.1X
			S	30	34.50	
ASPA	41.03	274	eP	35	37.10	0.7
	1.0s		9.90nm			4.5mb
WB2	42.51	280	ePd	35	48.00	-0.5
	0.6s		27.50nm			5.2mb
WRA	42.52	280	P	35	48.80	0.2
	0.6s		8.20nm			4.7mb
BCAO	144.07	214	iPKPd	47	25.00	-2.0
	0.8s		7.00nm			
KAF	148.85	336	iPKP	47	33.00	-0.3
	0.5s		3.70nm			
LIC	150.17	171	PKP	47	43.00	6.2X
KIC	150.34	172	PKP	47	43.30	6.2X
NUR	150.56	335	iPKP	47	38.00	2.1
	0.3s		3.90nm			
TIC	150.59	171	PKP	47	43.30	5.9X
NB2	153.75	347	PKP	47	45.30	4.7X
	0.7s		2.40nm			
HFS	154.07	344	ePKP	47	44.70	3.7X
	0.5s		1 10nm			
	S.D. = 1.3 on 19 of 25 obs.					

? MAY 20, 1993 01h 32m 48.29± 1.57s
51.514 N ±20.8km 179.018 W ±15.1km
DEPTH = 33.0km (normol)
3 9mb (7 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS. (7)

ADK	1.50	75	ePc	33	14.70	1.6
			eS	33	29.75	
SVW	16.06	44	eP	36	33.59	0.6
	0.8s		14.14nm			4.1mb
SLKM	18.30	49	eP	37	00.76	-0.2
IMA	19.41	32	eP	37	14.01	-0.3
	0.8s		2.85nm			3.6mb
KLU	20.59	48	eP	37	27.72	1.0
FBA	20.92	38	eP	37	29.60	-0.4
	0.8s		3.30nm			3.8mb
BALM	22.19	50	eP	37	41.88	-1.1
YKA	35.24	47	eP	39	39.20	-2.0
	0.5s		0.90nm			4.0mb
LBFM	39.72	82	(P)	40	18.70	-0.6
			epP	40	28.15	32kmX
			esP	40	34.33	
BW06	46.39	72	ePc	41	13.27	-0.1
	0.4s		1.41nm			4.3mb
			e	41	27.10	
GSC	46.57	85	eP	41	14.54	-0.2
HFS	68.24	353	eP	43	47.40	0.2
	0.4s		0.70nm			4.1mb
GEC2	79.43	351	P	44	53.80	1.4
	0.6s		0.47nm			3.6mb
	S.D. = 1.1 on 13 of 13 obs.					

% MAY 20, 1993 01h 50m 10.79± 1.01s
17.192 N ± 8.3km 99.918 W ±13.8km
DEPTH = 33.0km (normol)
GUERRERO, MEXICO (59)

ACX	0.33	170	iP	50	18.85	-0.1
			iS	50	27.11	
III	1.25	20	iP	50	32.00	-0.3
			(S)	50	53.50	
PPM	2.23	33	eP	50	46.50	-0.2
			(S)	51	20.00	
UNM	2.24	18	(P)	50	35.50	-11.0X
MRX	2.78	334	eP	50	54.00	0.2
			(S)	51	26.00	
IISM	3.01	53	(P)	50	57.50	0.3

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

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* MAY 20, 1993 01h 57m 23.93± 1.13s
45.410 N ±21.0km 151.471 E ±14.9km
DEPTH = 33.0km (normol)
4.7mb (28 obs.)
KURIL ISLANDS (221)

KUR	2.55	267	iPnd	58	05.00	1.2
KUSJ	5.38	247	eP	58	41.30	-2.6
			eS	59	42.40	
SKR	6.11	29	ePn	58	52.60	-1.6
Z	12s		1.00um			
N	12s		0.40um			
E	12s		0.70um			
YSS	6.28	288	ePn	59	01.00	4.3X
Z	15s		0.60um			
E	15s		0.50um			
ASAJ	6.42	262	eP	59	00.90	2.3X
HOOJ	6.64	246	eP	59	01.30	-0.4
			eS	00	18.80	
MRRJ	8.08	252	eP	59	21.50	-0.3
OFUJ	9.63	232	eP	59	38.80	-4.4X
			eS	01	20.00	
MAT	13.36	233	eP	00	43.00	9.4X
	1.1s		13.92nm			4.8mb
ILT	27.35	24	eP	03	13.00	5.6X
IMA	35.56	35	eP	04	19.40	-0.4
	1.0s		2.00nm			4.0mb
LZH	36.80	272	eP	04	32.00	1.5
	1.2s		38.00nm			5.1mb
			pP	04	45.00	49kmX
FBA	37.92	37	eP	04	39.70	0.3
	0.8s		4.48nm			4.4mb
BALM	40.67	43	(P)	05	02.30	-0.1
INK	43.39	32	eP	05	26.00	1.6
	1.0s		2.00nm			3.8mb
YKA	52.68	36	eP	06	35.40	-1.4
	1.0s		1.30nm			3.8mb
GUN	53.98	275	P	06	47.00	-0.3
	0.8s		19.00nm			5.2mb
KKN	54.47	275	P	06	51.00	0.2
	0.7s		15.00nm			5.1mb
PKI	54.51	275	P	06	50.60	-0.6
DMN	54.70	275	P	06	52.60	0.1
GKN	54.79	276	P	06	53.20	0.1
	0.7s		17.00nm			5.2mb
KAF	64.17	335	iP	07	55.00	-2.0
	0.6s		2.60nm			4.5mb
NUR	65.93	334	iP	0B	06.20	-2.1
	0.5s		4.90nm			4.9mb
WRA	66.88	198	P	08	14.80	0.0X
	0.6s		0.70nm			3.9mb
WRA	66.88	198	P	08	28.60	13.8X
	0.7s		2.00nm			
UPP	68.50	337	iP	08	22.80	-1.7
NB2	69.12	341	P	08	27.20	-1.2
	0.8s		6.00nm			4.7mb
GBA	69.25	268	P	08	30.00	0.2
HFS	69.30	339	eP	08	27.60	-1.9
	0.6s		10.70nm			5.1mb
KIV	70.90	314	eP	08	40.20	0.5
	0.9s		14.00nm			5.0mb
Z	17s		0.10um			4.1MszX
SPC	76.64	330	eP	09	13.90	0.9
CLL	77.20	335	iP	09	14.90	-0.9
	1.2s		16.00nm			4.9mb
BRG	77.29	334	e(P)	09	15.80	-0.5
EKA	77.36	345	P	09	17.00	0.4
	0.7s		1.50nm			4.1mb
PRU	77.88	333	P	09	20.00	0.5
MOX	78.20	335	eP	09	21.70	0.4
ZST	78.58	331	e(P)	09	23.80	0.4
KHC	78.94	333	P	09	26.00	0.6
	1.0s		3.50nm			4.3mb
			e	09	31.50	
GEC2	79.15	333	P	09	26.60	0.0
	0.8s		1.28nm			4.0mb
			e	09	30.40	
			e	09	32.50	
GRF	79.16	335	eP	09	27.30	0.7
KBA	80.81	332	iPd	09	36.60	0.9
			i	09	40.50	
WTTA	81.20	334	iPd	09	38.40	0.7
	0.6s		2.40nm			4.4mb
LOR	83.42	338	eP	09	49.10	0.1
	0.8s		3.65nm			4.6mb

20d 02h

SSF 83.70 339 eP 09 50.60 0.2
1.0s 3.20nm 4.4mb
AVF 83.99 339 eP 09 52.30 0.4
SMF 84.00 338 eP 09 52.40 0.4
0.8s 5.65nm 4.8mb
LPL 84.24 336 eP 09 55.00 1.5
0.9s 5.00nm 4.7mb
LPG 84.26 336 eP 09 55.10 1.5
0.9s 6.40nm 4.8mb
MAF 84.72 339 eP 09 56.60 1.0
0.9s 8.70nm 4.9mb
TCF 84.75 339 eP 09 56.50 0.8
0.9s 3.75nm 4.6mb
LSF 84.95 340 eP 09 57.50 0.8
1.0s 8.00nm 4.9mb
S.D. = 1.1 on 44 of 51 obs.

? MAY 20, 1993 02h 04m 20.79± 1.01s
26.317 S ± 7.6km 27.509 E ±10.9km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)

PRY 0.61 183 eP 04 32.00 -1.0
S 04 37.80
KSR 0.71 309 eP 04 35.00 0.0
S 04 44.00
SLR 0.91 50 eP 04 38.50 -0.2
S 05 50.20
SEK 2.00 177 eP 04 57.00 1.2
S 05 22.00
S.D. = 1.6 on 4 of 4 obs.

? MAY 20, 1993 02h 04m 51.04± 2.91s
10 805 S ±12.0km 114.660 E ±48.6km
DEPTH = 33.0km (normal)
4.6mb (4 obs.)
SOUTH OF BALI, INDONESIA (284)

KHKI 2 60 21 iPd 05 31.50 -0.2
iS 05 58.90
e 10 24.30
MEEK 16.19 167 eP 08 37.00 -0.7
0.2s 9.00nm 4.6mb
eS 11 12.00
WB2 21.03 118 iPc 09 33.20 -1.4
0.5s 16.50nm 4.7mb
eS 13 08.50
ASPA 22.35 127 iPd 09 48.50 0.7
0.7s 20.90nm 4.7mb
eS 13 46.50
STK 32.53 134 iPd 11 22.80 1.6
0.7s 3.70nm 4 4mb
S.D. = 1.6 on 5 of 5 obs.

? MAY 20, 1993 03h 25m 38.63± 1.26s
8 604 S ±11.3km 157.589 E ± 9.8km
DEPTH = 81.1 ± 13.1 km
4.9mb (15 obs.)
SOLOMON ISLANDS (193)

SVO 2 27 104 eP 26 14.50 -0.2
eS 26 57.00
HNR 2.47 110 eP 26 17.00 -0.6
eS 26 24.00
RAB 6 95 309 eP 27 21.00 1.2
CTA 15.83 223 iP 29 18.00 -0.1
1.5s 62.50nm 4.6mb
OLP 21.91 214 eP 30 26.50 -0.1
WB2 25.14 241 iPc 30 56.20 -1.7
0.7s 40.80nm 5.0mb
BWA 27 05 197 eP 31 18.90 3.6X
ASPA 27.17 234 eP 31 14 60 -2.0
0.3s 12.90nm 5.0mb
Z 20s 0.60um 4.2Msz
STK 27 52 210 eP 31 22.50 2.9
0.7s 8.40nm 4.4mb
CAN 27.73 195 eP 31 25.20 3.7X
BJI 61.70 325 eP 35 54.50 3.9X
KMI 63.04 304 eP 36 02.50 2.4
0.5s 20.00nm 5.4mb
sP 36 14.00
LZH 67.26 315 eP 36 27.00 0.0
1.2s 18.00nm 4.9mb
pP 36 42.00 54kmX
GUN 78.14 301 P 37 30.40 -1.0
0.9s 43.00nm 5.4mb
PKI 78.45 300 P 37 31.40 -1.7
0.8s 19.00nm 5.1mb
KKN 78.62 301 P 37 31.80 -2.0
0.7s 22.00nm 5.2mb
DMN 78.72 300 P 37 34.00 -0.4
0.9s 53.00nm 5.4mb
GKN 79.23 301 P 37 36.40 -0.7
0.8s 36.00nm 5.3mb
SLKM 80.16 23 (P) 37 41.56 0.3
PMR 81.24 23 eP 37 46.90 0.1
0.8s 6.05nm 4.6mb
SPA 81.45 180 iPc 37 50.40 2.3
1.2s 21.13nm 4.9mb
Z 24s 2.00um 5.4MszX
KLU 82.44 24 (P) 37 54.17 1.0
GBA 82.55 285 P 37 56.00 1.6
FBA 83.70 20 eP 37 59.16 -0.3
0.6s 4.39nm 4.6mb
YKA 96.55 28 eP 39 00.00 -0.1
0.8s 0.80nm 4.3mb
CNCB 128.34 119 PKP 44 38.00 -1.1
LPB 128.36 119 PKP 44 32.00 -7.0X
PPD 138.40 138 (PKP) 45 01.00 3.6X
BCAO 139.13 267 ePKPc 45 15.00 16.1X
0.6s 3.00nm
S.D. = 1.5 on 23 of 29 obs.

% MAY 20, 1993 03h 30m 32.98± 1.01s
32.159 S ± 8.7km 69.378 W ±12 4km
DEPTH = 120.0km (geophysicist)
MENDOZA PROVINCE, ARGENTINA (139)

RTBS 0.50 353 ePc 30 51.30 0.2
RTCB 0.83 36 iPd 30 54.00 0.2
(S) 31 11.00
CFA 1.11 61 ePc 30 56.70 0.2
S 31 04.60
RTLL 1.13 43 iPc 30 56.50 -0.2
S 31 14.50
RFA 2.71 164 ePc 31 16.00 -0.2
S 31 48.00
RTPR 3.08 54 e(P)d 31 20.50 -0.4
MRA 3.12 96 ePc 31 22.00 0.5
TCA 4.16 80 ePc 31 35.50 -0.2
S 32 20.70
S.D. = 0.4 on 8 of 8 obs.

? MAY 20, 1993 03h 39m 19.91± 1.97s
31.536 S ±40.6km 67.896 W ±20.9km
DEPTH = 80.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

CFA 0.30 256 ePc 39 32.60 0.2
S 39 43.00
RTLL 0.53 293 ePc 39 34.50 0.3
S 39 46.50
RTCB 0.77 273 ePc 39 36.50 -0.2
S 39 48.50
RTBS 1.33 264 ePd 39 43.20 -0.2
S 40 02.10
RTPR 1.71 44 e(P)c 39 48.30 -0.1
S 40 10.80
S.D. = 0.3 on 5 of 5 obs.

MAY 20, 1993 04h 42m 13.92± 0.38s
23.866 N ± 7.9km 142.209 E ± 7.9km
DEPTH = 33.0km (normal)
5.0mb (32 obs.)
VOLCANO ISLANDS REGION (213)

PJG 10.53 166 eP 44 47.60 2.0
e 45 09.00
GUMO 10.53 166 eP 44 47.20 1.6
0.9s 307.90nm 6.5mb X
GUA 10.59 166 eP 44 46.70 0.3
0.7s 131.51nm 6.3mb X
MAT 13.10 346 eP 45 27.00 6.8X
0.8s 29.85nm 5.4mb
(S) 47 45.00
SSE 19.98 296 Pc 46 49.80 3.5X
0.7s 25.00nm 4.7mb
S 50 26.00
sS 50 32.00
i 51 24.00
YSS 23.10 1 eP 47 23.30 5.6X
0.8s 20.00nm 4.7mb
e 51 30.00
BJI 27.21 313 eP 47 58.00 1.4
1.2s 16.00nm 4.5mb
LZH 35.18 299 eP 49 07.50 0.4
1.6s 42.00nm 5.1mb
sP 49 30.00
YAK 39.07 351 iPc 49 42.00 2.7
0.9s 153.00nm 5.8mb
ZAK 40.09 321 eP 49 50.00 2.2
1.4s 18.00nm 4.6mb
CHTO 40.50 271 eP 49 50.80 -0.8
WB2 44.21 191 iPc 50 14.70 -7.1X
0.5s 29.50nm 5.4mb
ASPA 47.93 190 iPc 50 44.60 -6.7X
0.5s 11.10nm 5.1mb
TIK 48.40 354 ePd 50 56.50 2.2
1.4s 66.00nm 5.5mb
ILT 50.11 18 iPc 51 10.40 2.9
e 51 43.00
GUN 50.47 287 P 51 10.80 -0.5
0.5s 22.00nm 5.4mb
PKI 50.93 287 P 51 13.80 -1.0
0.6s 17.00nm 5.2mb
KKN 51.01 287 P 51 14.40 -0.8
0.7s 23.00nm 5.2mb
DMN 51.19 287 P 51 15.60 -1.1
GKN 51.54 288 P 51 18.60 -0.6
0.8s 50.00nm 5.5mb
PRZ 55.28 306 iPd 51 48.50 1.9
1.0s 100.00nm 5.8mb
STK 55.43 181 eP 51 39.50 -8.0X
0.6s 1.80nm 4.3mb
TLG 56.00 307 iP 51 53.60 1.9
1.0s 20.00nm 5.1mb
CP2 57.63 31 eP 52 05.10 1.9
FRU 58.05 307 eP 52 07.00 0.8
2.0s 40.00nm 5.1mb
e 52 35.00
FBA 60.17 28 eP 52 22.04 1.5
0.6s 1.86nm 4.4mb
KLU 60.68 32 eP 52 24.31 0.2
BALM 62.39 32 eP 52 35.08 -0.6
SVE 65.81 323 iPd 52 58.50 0.6
1.1s 80.00nm 5.7mb
INK 65.96 24 eP 53 00.50 1.9
0.8s 2.00nm 4.3mb
ARU 66.98 323 iPd 53 04.50 -0.9
1.3s 100.00nm 5.8mb
MBC 68.99 15 eP 53 19.00 1.4
0.5s 2.00nm 4.4mb
YKA 74.97 28 eP 53 52.50 -0.8
0.8s 4.00nm 4.5mb
GMW 76.01 44 eP 53 59.99 0.4
SDF 77.46 339 eP 54 07.80 0.5
DPW 78.77 43 eP 54 14.83 -0.1
NEW 79.28 42 eP 54 17.33 -0.3
1.0s 19.38nm 5.1mb
KAF 80.39 335 iP 54 22.20 -1.0
0.6s 6.70nm 4.8mb
ARN 80.59 53 eP 54 24.14 -0.8
CMB 81.16 52 eP 54 27.20 -0.7
0.8s 7.02nm 4.7mb
NUR 81.95 334 iP 54 30.40 -1.0
0.6s 7.30nm 4.9mb
PHAM 82.02 54 eP 54 32.45 0.1
KVN 82.39 51 eP 54 28.54 -5.9X
BONR 82.70 52 eP 54 35.82 -0.4
LRM 83.21 43 ePc 54 38.60 0.0
MNK 84.35 327 eP 54 43.00 -0.8
TPNV 84.60 52 eP 54 45.32 -0.4
0.2s 2.28nm 5.0mb
GSC 84.91 54 eP 54 45.59 -1.6
UPP 85.12 335 iP 54 45.60 -2.0
PEC 85.25 55 eP 54 47.86 -1.0
DUG 85.56 48 iPd 54 49.59 -0.9
1.2s 19.93nm 5.2mb
ARUT 86.23 50 eP 54 53.20 -0.7
HFS 86.39 337 eP 54 51.40 -2.6
0.5s 1.50nm 4.5mb
DAU 86.51 47 eP 54 54.86 -0.5
NB2 86.61 338 P 54 52.80 -2.3
0.8s 3.70nm 4.7mb
MSU 86.78 49 eP 54 56.23 -0.4
GLA 87.37 55 eP 54 58.20 -1.1
SRU 87.63 48 eP 54 59.23 -1.4
GEC2 94.27 329 P 55 29.60 -1.7
e 55 31.90
e 59 21.00
e 08 48.00

e 08 54.90
S.D. = 1.4 on 52 of 59 obs.

MAY 20, 1993 04h 55m 54.45± 0.20s
13.757 N ± 4.1km 90.952 W ± 4.0km
DEPTH = 31.3km (9 depth phases)
5.1mb (52 obs.) 5.3Msz (26 obs.)
NEAR COAST OF GUATEMALA (71)
Mw 5.8 (HRV). Ms 5.3 (BRK). Felt along the Pacific coast of Guatemala and ot Guatemolo City. Also felt (II) at San Salvador, El Salvador.
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B. 45S, 90C
Centroid Locotion:
Origin Time 04:55:58.7 0.2
Lat 13.47N 0.02 Lon 91.41W 0.02
Dep 30.6 1.2 Holf-durotion 1.9
Moment Tensor; Scale 10**17 Nm
Mrr= 3.96 0.06 Mtt=-4.22 0.09
Mff= 0.26 0.10 Mrt= 2.53 0.21
Mrf=-1.55 0.17 Mtf= 1.15 0.08
Principol Axes:
T Vol= 4.99 Plg=70 Azm= 48
N 0.38 10 289
P -5.37 17 196
Best Double Couple:Mo=5.2*10**17
NP1:Strike=271 Dip=29 Slip= 69
NP2: 114 63 101

YPE	1.29	73	iPd	56	23.90	7.4X
TME	1.57	80	iPd	56	28.00	7.4X
TPX	1.71	312	iP	56	20.76	-1.7
			(S)	56	40.00	
TPX	1.71	312	iP	56	21.00	-1.5
SJAS	1.74	93	iPd	56	29.30	6.3X
LFU	1.79	90	eP	56	30.60	6.9X
SCX	3.38	331	eP	56	50.00	3.7X
			(S)	57	33.50	
SCX	3.38	331	iP	56	50.44	4.2X
			iS	57	33.00	
OXX	6.47	301	eP	57	29.50	-0.8
			(S)	58	37.50	
OXX	6.47	301	iP	57	29.76	-0.5
			(S)	58	38.17	
IISM	8.07	311	iP	57	48.00	-4.4X
IISM	8.07	311	iP	57	48.51	-3.9X
			(S)	59	10.00	
IIT	8.79	308	(P)	58	05.40	2.7X
PPM	9.06	307	iP	58	06.70	0.0
			(S)	59	37.50	
IIA	9.13	307	(P)	58	09.00	1.9
ACX	9.13	291	(P)	58	04.50	-2.7
III	9.39	300	iP	58	11.00	0.1
UNM	9.64	306	(P)	58	15.00	0.5
CRX	10.08	305	(P)	58	22.00	1.5
MRX	11.45	302	iP	58	39.75	0.8
CGX	13.36	298	(P)	58	54.50	-10.2X
AGX	13.49	308	(P)	59	09.00	2.9X
PCJ	13.85	72	ePd	59	18.05	7.2X
BBJ	13.93	69	ePd	59	19.21	7.1X
STH	14.26	71	ePd	59	24.72	8.4X
MZX	17.41	305	(P)	59	57.00	0.3
PSO	18.38	132	eP	00	14.50	5.4X
BUTX	18.79	343	iP	00	01.15	-12.6X
			iS	03	33.14	
BOG	18.97	117	iPc	00	22.00	5.7X
			iS	04	05.50	
LTX	19.47	325	ePd	00	21.06	-0.8
UYO	20.57	352	iPc	00	32.20	-1.1
GOGA	20.72	18	ePc	00	36.47	1.6
	1.1s		270.43nm			5.5mb
	Z 21s		8.40um			5.1Msz
			S	04	28.43	
MIAR	20.83	354	ePc	00	35.58	-0.4
	0.9s		82.70nm			5.1mb
OLY	21.66	359	eP	00	44.03	-0.3
			PcP	04	45.33	
MEO	22.04	343	iPd	00	46.70	-1.5
MYNC	22.10	15	eP	00	51.36	2.5
	0.9s		74.28nm			5.1mb
OCO	22.46	346	iPc	00	54.20	1.9
ELC	23.48	3	iPc	01	03.23	1.0
ACO	24.00	344	iPc	01	05.40	-1.9
FVM	24.13	1	eP	01	09.84	1.2

	1.2s		46.37nm		4.9mb
CEH	24.48	24	ePd	01	13.78	1.8
	0.6s		59.13nm		5.3mb
	Z 17s		7.26um		5.2MszX
			S	06	03.29	
NAV	25.15	19	ePd	01	19.94	1.5
BLA	25.18	20	ePd	01	20.49	1.8
	0.8s		38.91nm		5.1mb
			e	01	25.32	17kmX
ALQ	25.32	329	ePc	01	20.90	0.6
	0.8s		30.80nm		5.0mb
TUC	25.88	319	ePc	01	25.63	0.2
	0.9s		97.62nm		5.4mb
			pP	01	34.81	33km
			sP	01	37.41	
			S	06	13.95	
CBN	27.17	24	eP	01	38.00	1.0
			e	02	22.00	222kmX
MCWV	27.59	19	P	01	50.00	9.1X
	Z 21s		8.65um		5.3Msz
GOL	28.79	336	eP	01	51.41	-0.6
	0.8s		16.22nm		4.8mb
			PcP	05	02.06	
			pPcP	05	11.89	
GLA	29.01	316	iPd	01	54.02	0.2
DLA	30.11	14	P	02	03.80	0.3
LDN	30.37	14	P	02	05.70	-0.1
ELF	30.49	14	P	02	06.70	-0.1
PLM	30.59	314	eP	02	08.27	0.2
SRU	30.60	329	iPc	02	08.01	-0.1
GPD	30.74	25	(P)	02	10.60	1.5
TYNO	30.76	16	P	02	09.71	0.6
PAL	30.96	26	eP	02	10.67	-0.3
			e	02	16.91	22kmX
MSU	31.01	327	iPc	02	12.15	0.4
			PcPd	05	07.75	
PEC	31.09	315	ePc	02	12.18	-0.1
	1.3s		70.37nm		5.3mb
ACTO	31.18	15	P	02	13.48	0.5
ARUT	31.19	324	ePc	02	14.34	1.1
SSK	31.64	315	eP	02	17.89	0.6
			pP	02	26.94	32km
WLVO	31.93	17	P	02	20.30	0.8
DAU	31.96	330	ePc	02	20.42	0.2
RSSD	32.27	342	eP	02	21.49	-1.2
	0.7s		6.02nm		4.6mb
			PcPc	05	10.20	
TPNV	32.31	320	eP	02	24.44	1.4
	0.8s		15.73nm		5.0mb
	Z 19s		9.38um		5.5Msz
DUG	32.58	328	ePd	02	25.70	0.4
	1.1s		38.56nm		5.2mb
			PcP	05	11.69	
ISA	32.98	316	iPc	02	29.15	0.3
	1.4s		45 56nm		5.2mb
	Z 18s		7.14um		5.4Msz
			pP	02	38.29	31km
ABL	33.04	314	(P)	02	29.07	-0.5
BW06	33.08	335	ePc	02	29.06	-0.7
	0.9s		7.04nm		4.6mb
			PcP	05	13.52	
HRV	33.19	27	P	02	40.00	9.5X
	Z 19s		5.39um		5.3Msz
TNP	33.62	321	ePc	02	34.57	0.1
	1.4s		45.10nm		5.2mb
RSNY	33.73	21	ePd	02	35.05	-0.1
	1.0s		55.01nm		5.4mb
			S	08	20.15	
HVU	33.74	330	ePc	02	35.87	0.4
BCH	33.82	314	ePc	02	36.70	0.5
BONR	34.21	320	eP	02	40.44	0.7
EEO	34 27	15	eP	02	42.50	2.7X
			pP	03	03.50	90kmX
PHAM	34.38	315	ePc	02	41.47	0.5
GAC	34.43	19	eP	02	42.50	1.4
MEMM	34.44	319	(P)	02	40.43	-0.9
KVN	34.76	321	ePd	02	45.71	1.3
CMB	35.59	318	ePc	02	51.50	0.3
	1.3s		60 00nm		5.4mb
	Z 18s		3 40um		5.2Msz
			ePPc	04	37.68	
			iS	08	33.68	
			iScP	09	06.68	
			eSS	11	20.68	
			eLQ	12	40.68	
			eLR	15	33.68	
SAO	35.59	316	P	03	00.00	8.8X

	Z 18s		7.09um		5.5Msz
SAO	35.59	316	ePc	02	51.30	0.1
	1.6s		70.00nm		5.3mb
	Z 19s		7.00um		5.4Msz
ARE	35.65	147	eP	02	55.00	2.8X
ARN	35.96	316	eP	02	55.07	0.7
MHC	36.03	316	ePc	02	55.86	0.8
	1.3s		80.00nm		5.5mb
	Z 18s		7.00um		5.5Msz
ULM	36.61	355	eP	03	00.50	0.9
BKS	36.72	317	ePc	03	06.09	5.4X
	Z 18s		6.00um		5.4Msz
			eS	08	51.09	
			iSS	12	03.09	
			eLQ	13	09.09	
			eLR	16	07.09	
LRM	36.76	335	eP	03	01.60	0.3
			e	05	24.60	
ORV	37.17	319	eP	03	05.73	1.3
NTYM	37.28	317	eP	03	05.75	0.4
CBM	38.20	25	eP	03	13.64	0.6
	0.8s		10.79nm		4.7mb
WDC	38.41	320	P	03	20.00	5.1X
	Z 19s		4.06um		5.3Msz
WDC	38.41	320	ePc	03	13.28	-1.6
	1.1s		20.00nm		4.8mb
	Z 19s		2.70um		5.1Msz
			ePP	05	07.00	
			eS	09	14.00	
			eScS	10	01.00	
			eLQ	13	55.00	
			eLR	17	28.00	
LBFM	38.46	322	iPd	03	16.40	0.8
LMN	38.86	29	eP	03	22.50	3.9X
FHC	39.45	319	ePc	03	24.51	1.0
	0.9s		193.02nm		5.9mb
LNOR	39.45	330	P	03	23.35	-0.2
ARC	39.54	319	ePc	03	23.90	-0 4
	Z 18s		3.20um		5.2Msz
CROR	40.23	327	P	03	30.86	0.8
VGB	40.47	327	eP	03	32.41	0.5
NEW	40.67	333	ePd	03	33.48	0.0
	0.8s		34.54nm		5.1mb
	Z 19s		9.11um		5.6Msz
WAH2	40.70	330	P	03	34.10	0.4
DPW	40.86	332	iPc	03	35.01	-0.1
SAW	41.30	331	P	03	39.50	0.8
ASR	41.32	328	P	03	40.27	1.3
WTV	41.56	330	P	03	41.73	0.9
SHW	41.68	327	(P)	03	43.42	1.4
JAQ	41.72	14	eP	03	41.00	-1.0
			pP	03	51.50	36km
LON	41.83	328	ePc	03	43.43	0.4
KMOR	42.00	326	P	03	45.85	1.3
BMW	42.39	327	eP	03	48.21	0.5
GMW	42.86	328	ePc	03	50.63	-0.8
JCW	42.86	330	P	03	51.29	-0.2
YJA	43.56	145	ePd	03	59.00	1.1
MCW	43.63	330	ePc	03	57.60	-0.1
STW	43.70	328	P	03	59.41	1.2
PGC	43.92	329	ePd	04	00.50	0.6
	1.2s		96.00nm		5.5mb
HJA	44.44	145	ePc	04	07.00	2.5
FCC	44.98	358	eP	04	13.00	4.6X
FSA	46.45	148	ePc	04	21.50	1.1
CYA	48.51	150	ePd	04	36.70	0.1
RTBS	49.65	156	ePc	04	46.90	1.7
RTPR	49.73	152	ePc	04	46.10	0.2
RTLL	49.76	155	iPc	04	46.70	0.5
RTCB	49.76	155	iPc	04	46.50	0.3
CFA	50.09	155	ePc	04	49.00	0.3
RTCV	50.19	155	ePd	04	50.00	0.5
TCA	51.49	151	ePd	04	57.00	-2.4
YKA	51.50	346	eP	04	58.00	-1.0
	0.6s		12.70nm		5.1mb
MRA	51.88	153	e(P)	05	01.70	-0.5
FRB	52.33	12	ePd	05	03.60	-1.6
	0.9s		18.00nm		5.0mb
PPD	52.69	132	eP	05	08.40	-0.1
RIFB	54.38	127	(P)	05	18.90	-2.1
			e	05	41.70	92kmX
VAO	56.47	130	eP	05	35.40	-0.7
			e	05	40.80	18kmX
BALM	59.90	334	ePd	05	59.10	-0.6
INK	60.96	343	ePd	06	06.60	0.0
	0.9s		8.00nm		4.8mb
KLU	61.65	333	iPc	06	10.88	-0.7

20d 05h

		PcP	06 52.42		
PMR	63.09	333 iPd	06 19.73	-1.2	
	1.2s	98.02nm		5.8mb	
SLKM	63.19	332 ePc	06 20.56	-1.2	
KDC	63.40	328 eP	06 22.07	-1.0	
	1.3s	39.48nm		5.4mb	
		pP	06 30.63	28km	
FBA	63.87	337 iPc	06 24.11	-2.0	
	0.9s	15.55nm		5.1mb	
		PcP	07 00.29		
HON	63.98	287 P	06 40.00	12.5X	
Z	21s	1.11um		5.0Msz	
MBC	64.28	353 eP	06 27.00	-1.6	
	0.8s	16.00nm		5.2mb	
		pP	06 38.00	36km	
CRP	64.34	332 iPc	06 27.95	-1.5	
		pP	06 37.97	32km	
		sP	06 43.07		
RSO	64.36	331 eP	06 28.49	-1.1	
		pP	06 36.95	27km	
CP2	64.38	332 ePc	06 28.61	-1.1	
		pP	06 36.94	27km	
SVW	65.89	331 iPc	06 37.51	-1.7	
	0.6s	35.34nm		5.6mb	
TTA	66.57	333 iPc	06 41.64	-2.0	
	1.3s	59.10nm		5.5mb	
IMA	66 59	337 ePc	06 41.68	-2.1	
SDN	67.17	324 e(P)	06 46.70	-0.7	
DAG	72.64	13 eP	07 18.70	-1 8	
	0.7s	14.38nm		5.1mb	
ILT	76.52	337 iPc	07 42.40	-0.5	
	1 4s	32.00nm		5.1mb	
		i	08 00.50	66kmX	
		e	10 40.00		
		ePS	18 00.00		
ADK	76.69	321 ePc	07 43.02	-1.1	
	1 8s	83.91nm		5.5mb	
EKA	77.57	36 Pd	07 47.80	-1.1	
	1.3s	24.80nm		5.1mb	
LPF	79.85	43 eP	07 59.10	-2.4	
	1.0s	14.60nm		4.9mb	
LDF	80.37	42 eP	08 02.30	-2.0	
	1.2s	23.20nm		5.1mb	
DBN	82.99	38 eP	08 30.00	12.1X	
Z	20s	1.00um		5.2Msz	
SSF	83.06	43 eP	08 17.20	-1.2	
	1.1s	7.35nm		4.7mb	
LOR	83.25	43 eP	08 17.10	-2.3	
	1.2s	13.10nm		4.9mb	
Z	22s	1.13um		5.2Msz	
LBF	83.39	43 eP	08 18.70	-1.4	
KONO	83.50	30 eP	08 21.20	0.9	
ENN	83.76	39 eP	08 22.00	0.2	
	1.0s	8.00nm		4.8mb	
NB2	83.87	29 P	08 22.40	0.1	
	1.1s	12.20nm		5.0mb	
TIC	84.51	85 P	08 26.60	0 3	
LIC	84.60	85 P	08 25.20	-1.6	
Z	20s	0.50um		4.9Msz	
HAU	84.71	42 eP	08 24.90	-1.8	
Z	22s	1.17um		5.2Msz	
KIC	84 85	85 P	08 27.20	-0.8	
BSF	85.04	42 eP	08 26.60	-1.9	
	1.3s	8.30nm		4.8mb	
CDF	85.21	41 eP	08 27.50	-1.8	
	1.4s	9.60nm		4.8mb	
HFS	85.32	29 eP	08 28.60	-0.9	
	1.0s	10.60nm		5.0mb	
Z	19s	882.00um		8.2MszX	
		LR	41 12.00		
UPP	87.26	29 iP	08 40.20	1.2	
MOX	87.27	38 eP	08 39.40	0.1	
	1 4s	12.00nm		5.0mb	
Z	19s	1.20um		5.3Msz	
		eS	19 02.00		
GRF	87.33	39 ePc	08 39.30	-0.3	
	1.1s	22.00nm		5.3mb	
Z	20s	1.00um		5.2Msz	
SDF	87.39	20 eP	08 39.00	-0.5	
CLL	87.89	38 eP	08 41.00	-1.2	
	1.5s	15.00nm		5.1mb	
Z	20s	1.50um		5.4Msz	
BRG	88.59	38 eP	08 45.60	0.0	
KHC	88.97	39 P	08 47.50	0.0	
Z	20s	1.60um		5.4Msz	
N	20s	0.20um			
E	20s	1.00um			

		e	09 13.00	95kmX	
PRU	89.26	38 eP	08 55.00	6.2X	
Z	18s	1.80um		5 5Msz	
N	18s	0.10um			
E	18s	1.20um			
		e	09 22.00	101kmX	
KBA	89.51	41 iPd	08 51.10	0.8	
		i	08 56.60	17kmX	
		ı	09 02.60		
KAF	90.04	25 eP	08 52.90	0.7	
NUR	90.14	27 eP	08 59.30	6.6X	
TIK	90.72	348 iPc	08 53.00	-2.2	
	1.0s	12.00nm		5.2mb	
		e	09 22.00	110kmX	
		e	12 30.00		
ZST	91.48	40 e(P)	09 00.80	1.7	
MGD	91.49	334 eP	09 00.00	1.1	
	1.3s	80.00nm		6.0mb	
PTJ	91.62	42 eP	08 59.20	-0.7	
SPC	92.99	38 eP	09 14.80	8.5X	
BCAO	107.76	81 ePKPc	14 22.20	0.9	
	1.0s	10.00nm			
WIN	111.62	109 ePKP	14 32.50	3.9X	
	1.0s	30 00nm			
ZAK	114.93	350 iPKP	14 35.00	1.2	
	1.2s	8.00nm			
		e	15 27.00		
		e	31 26.00		
FRS	119.39	116 ePKP	14 41.50	-1.4	
BLF	120.15	116 ePKP	14 44.20	-0.4	
BJI	120.83	336 ePKP	14 45.00	-0.4	
Z	24s	1.27um		5.5MszX	
		ePP	16 16.00		
		eSS	32 44.00		
LSZ	121.23	100 iPKPc	14 48.00	1.0	
PRY	121.29	113 ePKP	14 48.00	1.1	
	1.0s	20 00nm			
SEK	121.42	115 ePKP	14 49.50	2.4	
SLR	122.01	112 ePKP	14 34.00	-14.3X	
	1.0s	40.00nm			
BUL	122.10	105 iPKPc	14 48.90	0.3	
	1.0s	10.00nm			
FRU	122.15	13 ePKP	14 49.50	1.6	
	1.5s	20.00nm			
		e	15 22.00		
TLG	122.26	10 ePKP	14 48.50	0.4	
MAIO	122.93	28 ePKP	14 49.00	-0.6	
CIR	124.92	106 iPKPd	14 58.00	4.2X	
		i	16 05.30		
SSE	125.76	326 PKPc	14 54.50	-0.7	
	1.0s	32.00nm			
LZH	128.49	345 ePKP	15 01.50	1.0	
Z	24s	1.37um		5.6MszX	
E	16s	0.51um			
		pPKP	15 11.50		
		PP	17 13.00		
STK	128.82	240 iPKPd	15 00.50	-0.5	
	0.9s	2.40nm			
NDI	136.29	15 iPKPc	15 16.50	1.2	
WB2	136.31	255 ePKP	15 14.30	-1.3	
	0.9s	7.90nm			
WRA	136.32	255 PKP	15 15.60	0.0	
	0.8s	2.30nm			
ASPA	136.54	250 ePKP	15 16 90	0.9	
Z	21s	0.60um		5.3Msz	
KMI	139.11	341 ePKP	15 13.00	-8.0X	
	6.0s	0.70nm			
Z	20s	1 90um		5.8Msz	
N	20s	1.00um			
		sPKP	15 23.00		
		PP	18 12.00		
		PKS	18 57.00		
COOL	145.93	235 ePKP	15 32.50	0.1	
CHTO	146.20	343 ePKPc	15 32.70	-0.4	
	1.2s	145.14nm			
TSM	146.24	300 ePKP	15 36.00	2.6X	
KKM	146.62	304 ePKPd	15 35.50	1.4	
HYB	147.34	19 ePKP	15 35.50	0.5	
	1.0s	85.00nm			
		i	15 45.00		
BDT	147.67	342 ePKP	15 29.00	-6.5X	
	1.0s	193.20nm			
NST	148.77	339 ePKP	15 38.00	0.7	
MUN	149.23	229 ePKP	15 41.30	3.7X	
BAL	149.51	232 ePKP	15 41.50	3.4X	
KHT	150.11	341 ePKP	15 41.20	1.9	
GBA	150.48	23 PKP	15 50.50	10.6X	

1.1s 8.00nm
S.D. = 1.1 on 182 of 222 obs.

? MAY 20, 1993 06h 07m 10.12± 1.78s
31.953 S ±23.6km 69.449 W ±15.5km
DEPTH = 120.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTBS	0.29	359 iPd	07 27.20	-0.2	
		S	07 38.60		
RTCB	0.72	50 ePc	07 30.50	0.5	
		S	07 44.00		
RTLL	1.04	54 e(P)	07 32.80	-0.1	
		S	07 48.50		
CFA	1.09	72 iPd	07 33.60	0.2	
		S	07 50.20		
RTPR	3.01	58 e(P)c	07 57.00	-0.2	
MRA	3.20	99 ePd	07 59.80	0.0	
		S	08 37.60		
TCA	4.19	83 ePc	08 13.00	-0.2	
		S	08 59.30		

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

MAY 20, 1993 06h 14m 03.89± 0.33s
37.198 N ± 2.8km 117.780 W ± 3.3km
DEPTH = 5.0km (geophysicist)
CALIFORNIA-NEVADA BORDER REGION (40)
MD 3.0 (GM), 2.8 (PAS). ML 2.7 (GS).

CWCR	0.51	305 P	14 13.21	-1.0	
BHPR	0.57	280 P	14 15.35	0 0	
BCKR	0.69	317 P	14 17.59	0.0	
CASR	0.72	302 P	14 18.36	0.0	
ORC	0.82	302 P	14 20.29	-0.2	
BONR	0.86	331 ePn	14 20.97	-0.2	
CLKR	0.92	296 P	14 21.92	-0.2	
TNP	0.99	27 eP	14 23.82	0.6	
MCSM	1.00	297 P	14 23.48	-0.1	
MEMM	1.03	297 P	14 23.98	0.1	
WLHM	1.13	202 P	14 24.51	-1.2	
TPNV	1.25	101 eP	14 27.68	0.0	
		eS	14 46.85		
NMC	1.36	184 P	14 30.12	0.6	
WORM	1.54	194 P	14 32.02	-0.2	
WSHM	1.58	171 P	14 34.10	1.4	
WASM	1.59	203 P	14 33.54	0.6	
ISA	1.63	200 ePn	14 32.44	-1.0	
WOFM	1.82	205 P	14 38.04	1.8X	
KVN	1.87	352 ePn	14 37.65	0.7	
		eS	15 05.33		
GSC	2.05	157 ePn	14 38.41	-1.1	
CMB	2.23	293 ePn	14 41.61	-0.5	
		iPg	14 44.52		
		eS	15 13.07		
MCUM	2.38	290 P	14 44.68	0.4	
8RMM	2.46	262 P	14 48.34	3.0X	
MNHM	2.59	292 P	14 51.00	3.9X	
ABL	2.62	207 (Pn)	14 48.99	1.2	
BCH	2.74	224 ePn	14 49.80	0.3	
BVYM	2.94	262 P	15 00.15	7.9X	
CSTL	2.99	280 P	14 57.00	4.1X	
ARN	3.00	274 ePn	14 53.89	0.9	
ARUT	3.50	79 ePn	14 59.66	-0.6	
		ePg	15 10.80		
ORV	3.75	310 ePg	15 12.86	9.1X	
PLM	3.91	169 (P)	15 05.51	-0.6	
MSU	4.63	72 ePg	15 30.00	13.7X	
DUG	4.90	51 ePg	15 38.14	18.0X	

S.D. = 0.7 on 26 of 34 obs.

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* MAY 20, 1993 06h 38m 23.24± 0.76s
4.230 S ±13.5km 152.308 E ±19.6km
DEPTH = 33.0km (normal)
4.4mb (7 obs.) 4.4Msz (1 obs.)
NEW BRITAIN REGION, P.N.G. (192)

PMG	7.25	225 eP	40 11.00	1.4	
WB2	23.45	227 eP	43 27.20	-3.6X	
	1.2s	12.80nm		4.3mb	
ASPA	26.25	221 iPd	43 57.20	-0.2	
	1.5s	15.90nm		4.4mb	
STK	29.29	199 eP	44 22.60	-2.3	
	0.5s	1.60nm		4.0mb	
BAG	37.48	304 eP	45 35.80	-0.3	
BJI	55.15	327 eP	47 54.50	-0.4	
	1.4s	24.00nm		5.0mb	

	Z	20s	0.30um			4.4Msz
LZH		60.48	316 eP	48	32.50	-0.2
		1.8s	60.00nm			5.4mb
YAK		68.30	349 eP	49	23.30	0.4
		1.0s	50.00nm			5.6mb X
	Z	14s	0.60um			5.0MszX
	N	14s	0.60um			
	E	10s	0.30um			
FBA		81.54	22 eP	50	36.33	-2.3
		1.0s	3.11nm			4.3mb
INK		88.10	21 eP	51	13.00	1.6
YKA		95.15	28 eP	51	44.30	0.1
		1.3s	1.10nm			4.1mb
CNCB		135.04	119 PKP	57	44.00	1.4
LPB		135.05	118 ePKP	57	48.00	5.6X
PPD		145.14	139 ePKP	57	53.40	-6.5X
TRN		145.99	77 ePKP	58	02.29	0.8
	S.D. = 1.4		on 12 of 15 obs.			

? MAY 20, 1993 07h 21m 32.55± 1.71s
20.703 S ±15.4km 67.139 W ±34.6km
DEPTH = 33.0km (normal)
SOUTHERN BOLIVIA (125)

YJA		2.11	134 iPd	22	05.50	-1.2
			S	22	33.50	
HJA		2.97	148 ePd	22	19.50	1.0
			S	22	50.50	
CCH		3.44	16 eP	22	26.00	0.6
CNCB		3.95	348 P	22	32.40	-0.5
LPB		4.25	347 eP	22	37.00	0.0
	S.D. = 1.2		on 5 of 5 obs			

% MAY 20, 1993 07h 25m 17.61± 1.10s
37.058 S ±12.2km 176.837 E ± 8 9km
DEPTH = 200.0km (geophysicist)
NORTH ISLAND, NEW ZEALAND (159)

kUZ		0.95	289 P	25	47.80	0.6
URZ		1 22	170 P	25	49.90	0.7
			S	26	16.30	
HBZ		1.29	115 P	25	48.00	-1.7
PUZ		1.52	132 P	25	50.60	-1.2
			eS	26	16.50	
PAHZ		1.81	175 P	25	55.80	1.3
NOZ		1.82	149 Pd	25	54.80	0.2
WHH		1.84	188 P	25	56.60	1.7
MOH		2.09	173 P	25	58.60	1 3
MAHZ		2.28	159 P	25	59.40	0.0
TTH		2.48	180 P	26	03.00	1.4
WAHZ		2.66	188 P	26	04.60	0.8
TEHZ		2.93	180 P	26	07.20	0 4
MNG		3.71	196 P	26	16.10	-0.2
			eS	27	03.30	
KIW		4.09	201 P	26	20.90	-0.1
MTW		4.22	194 P	26	21.50	-1.2
CAW		4.27	198 P	26	22.60	-0.7
DIW		4.37	210 eP	26	24.80	0.2
MRW		4.49	201 P	26	25.30	-0.7
			eS	27	21.30	
WEL		4.52	200 eP	26	26.10	-0.3
TCW		4.60	205 eP	26	26.80	-0.7
ORZ		5.04	220 eP	26	33.60	0.4
THZ		5.60	212 eP	26	41.10	0.7
KHZ		5.92	204 eP	26	43.80	-0.7
			eS	27	53.80	
LTZ		6.71	210 eP	26	53.90	-0.9
			eS	28	10.60	
ODZ		9 25	208 eP	27	26.70	-1.2
	S.D. = 1.0		on 25 of 25 obs.			

MAY 20, 1993 08h 01m 22.81± 0.52s
36.827 N ± 6.6km 30.235 E ± 8.2km
DEPTH = 30.9 ± 7.3 km
TURKEY (366)
ML 3.5 (ISK), 3.1 (CSS).

ELL		0.27	253 iPg	01	31.60	1.4
			iSg	01	38.60	
BCK		0.69	24 iPg	01	37.50	1.1
YER		1.59	282 iPn	01	50.00	0.7
KHL		1.60	339 iPn	01	48.90	-0.4
ALT		2.23	357 iPn	01	58.60	0.2
PPCY		2.59	138 eP	02	02.50	-0.9
			eS	02	30.00	
IZM		2.83	304 ePn	02	06.00	-0.9
CSS		3.13	126 eP	02	12.50	1.4
			eS	02	47.20	
KCT		3.72	337 ePn	02	19.10	-0.4
GBZT		4.00	351 ePn	02	32.50	9.0X
ADI		5.55	131 eP	02	45.90	0.5
DSI		6.76	139 eP	03	02.00	-0.4
KOT		7.01	169 ePn	03	00.00	-5.9X
SAGI		7.55	149 eP	03	12.70	-0.9
			eS	04	32.20	
	S.D. = 1.1		on 12 of 14 obs.			

? MAY 20, 1993 08h 18m 20.23± 4.79s
39.510 N ±32.7km 23.633 E ±16.4km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

PAIG		0.42	5 iPg	18	28.94	0.2
			iSg	18	37.54	
OUR		0.87	18 iPg	18	36.94	0.1
LIT		1.06	304 ePb	18	40.14	-0.1
			eSb	18	55.06	
THE		1.23	336 ePb	18	43.01	-0.1
SOH		1.33	351 ePb	18	44.50	-0.2
			eSb	19	06.10	
SRS		1.61	359 ePb	18	48.18	-0.5
GRG		1.73	327 ePb	18	50.53	0.1
KNT		1.74	341 ePb	18	51.34	0.6
			eSb	19	15.66	
VAY		1.98	336 ePn	18	57.40	3.3X
OHR		2.69	307 eP	19	17.50	13.1X
	S.D. = 0.4		on 8 of 10 obs.			

• MAY 20, 1993 08h 24m 50.55± 1.06s
26.336 S ± 7 6km 69.299 W ±13.0km
DEPTH = 134.2 ± 17.5 km
NORTHERN CHILE (123)

FSA		2.96	86 iPc	25	37.10	-0.3
CYA		3.76	125 ePc	25	46.50	-1.5
			S	26	28.20	
SLA		3.79	66 ePd	25	49.10	0.5
RTPR		4.65	149 ePc	25	59.10	-0.8
			(S)	26	49.80	
HJA		4.71	50 ePd	26	02.00	1.3
RTLL		5.03	172 iPc	26	05.40	0.3
			S	27	00.00	
RTCB		5.15	175 iPd	26	08.00	1.2
			S	27	02.20	
RTBS		5.31	181 e(P)c	26	09.90	1.1
			S	27	09.10	
CFA		5.33	170 ePd	26	09.50	0.3
			S	27	05.00	
MDZ		6.54	177 e(P)	26	35.50	9.9X
PEL		6.89	190 eP	26	29.00	-1.4
CCH		9.38	19 eP	27	20.00	15.9X
CNCB		9.56	8 P	27	13.00	6.3X
LPB		9.82	7 eP	27	09.00	-1.0
ARE		10.03	348 eP	27	31.00	18.2X
PPD		16.96	79 eP	28	41.40	0.2
VAO		20.56	86 eP	29	20.50	0.0
	S.D. = 1.1		on 13 of 17 obs.			

% MAY 20, 1993 08h 38m 17.34± 1.24s
39.374 N ±12.2km 23.000 E ±11.2km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

AGG		0.63	236 iPg	38	29.98	0.0
			eSg	38	40.50	
PAIG		0.76	43 ePg	38	32.62	0.4
			eSg	38	43.98	
LIT		0.83	332 iPg	38	33.74	0.4
			iSg	38	47.09	
OUR		1.22	38 ePb	38	40.10	0.1
			eSb	38	56.38	
SOH		1.47	11 ePb	38	43.06	-0.9
	S.D. = 0.7		on 5 of 5 obs.			

MAY 20, 1993 08h 44m 05.55± 0.29s
28.138 N ± 4.9km 130.032 E ± 4.8km
DEPTH = 23.6km (4 depth phases)
5.0mb (35 obs.)
RYUKYU ISLANDS (238)

KAGJ		3.13	14 P	44	54.30	-0.2
			S	45	32.50	
KUMJ		4.44	9 P	45	13.80	0.8
			S	46	05.30	
SHNJ		6.04	9 eP	45	36.20	0.5
			eS	46	46.70	
TKSJ		6.77	30 P	45	45.30	-0.7
			S	46	56.10	
YONJ		7.61	22 P	45	56.60	-1.2
			S	47	17.90	
WKYJ		7.71	37 P	45	57.60	-1.6
			S	47	18.20	
SSE		8.24	293 P+	46	06.00	-0.6
		1.2s	30.00nm			5.4mb
	Z	20s	2.70um			3.8Msz
	N	12s	3.80um			
	E	12s	4.80um			
			sP	46	13.60	
			S	47	56.00	
TSRJ		8.94	33 P	46	15.10	-1.2
IIDJ		9.92	40 eP	46	31.20	1.4
MAT		10.86	37 (P)	46	28.00	-14.6X
CHJJ		10.95	42 eP	46	43.90	0.1
BJI		16.49	320 eP	47	58.00	1.2
		2.0s	124.00nm			4.7mb
	Z	15s	2.92um			4.6Msz
			eS	51	20.00	
			ePcP	17	52.00	
GUMO		20.01	133 eP	48	39.20	-0.3
		1.0s	101.60nm			5.1mb
PJG		20.01	133 eP	48	39.20	-0.3
GUA		20.08	133 eP	48	40.00	-0.3
		0.6s	37.33nm			4.9mb
YSS		21.31	24 eP	48	51.80	-0.8
		1.0s	20.00nm			4.5mb
	Z	16s	0.60um			4.1MszX
	N	20s	0.70um			
	E	16s	0.50um			
			e	49	01.60	37kmX
			eS	52	48.00	
			eSS	53	33.00	
LZH		23.51	296 eP	49	14.00	-0.7
		1.8s	96.00nm			5.0mb
	Z	12s	1.96um			4.8MszX
	N	11s	2.04um			
			pP	49	23.00	32km
			PP	49	55.00	
			eS	53	38.00	
KMI		24.56	269 Pc+	49	24.00	-1.2
		1.5s	220.00nm			5.5mb
	Z	16s	2.40um			4.8MszX
	N	14s	2.00um			
	E	14s	1.40um			
			sP	49	39.00	
			S	53	48.00	
			sS	54	04.00	
CHTO		29.92	259 eP	50	14.00	0.0
		1.0s	14.75nm			4.8mb
ZAK		30.09	325 eP	50	12.00	-3.2X
		2.0s	13.00nm			4.4mb
	Z	13s	3.80um			5.2MszX
	N	14s	2.10um			
	E	14s	3.06um			
GUN		38.81	280 P	51	30.40	-0.5
PKI		39.29	280 P	51	34.00	-0.8
KKN		39.36	280 P	51	34.60	-0.6
DMN		39.54	280 P	51	36.40	-0.5
		0.9s	74.00nm			5.4mb
GKN		39.87	281 P	51	39.00	-0.5
TIK		43.54	359 iPd	52	08.00	-0.7
		2.0s	103.00nm			5.3mb
	Z	14s	1.30um			5.0MszX
			e	52	22.00	53kmX
			i	53	55.00	
PRZ		43.85	303 eP	52	13.00	1.2
TLG		44.62	304 eP	52	28.00	10.1X
NDI		46.13	284 eP	52	29.00	-1.0
NRI		47.83	341 iPd	52	41.00	-1.9
		2.0s	48.00nm			5.2mb
			e	54	11.00	464kmX
WRA		47.98	175 P	52	43.50	-1.1
		0.8s	1.50nm			4.1mb
WB2		47.98	175 eP	52	42.50	-2.1
		0.9s	3.20nm			4.4mb
ILT		49.96	23 eP	52	58.00	-1.2
	Z	14s	0.30um			4.5MszX
	N	14s	0.30um			
	E	16s	0.30um			
			eS	00	05.00	
GBA		50.86	265 P	53	07.00	0.2
ASPA		51.64	175 eP	53	13.10	0.6

20d 08h

	0.9s	8.00nm		4.6mb		
SVE	55.75	321 ePd	53 42.00	-0.5		
	2.0s	20.00nm		4.8mb		
	Z 13s	1.50um		5.3MszX		
	N 13s	0.20um				
	E 13s	1.00um				
MAIO	59.06	297 eP	54 07.00	0.8		
PMR	61.36	33 eP	54 20.87	-0.7		
	1.5s	35.56nm		5.3mb		
MBC	67.60	14 eP	55 01.50	-0.4		
	0.6s	2.00nm		4.4mb		
GRS	68.15	304 eP	55 05.00	-1.2		
	1.4s	30.00nm		5.2mb		
KEV	68.25	339 eP	55 06.00	-0.1		
MOS	68.54	323 eP	55 08.00	0.0		
	1.5s	90.00nm		5.7mb		
	Z 15s	1.80um		5.4MszX		
KIV	69.26	310 iPc	55 12.80	-0.1		
	1.7s	66.00nm		5.5mb		
		e	55 43.50	124kmX		
PUL	70.78	328 (P)	55 22.00	0.3		
KAF	71.61	331 iP	55 25.10	-1.5		
	0 5s	7.40nm		5.0mb		
NUR	73 04	330 iP	55 34.00	-1.1		
	0.4s	9.90nm		5.2mb		
MNK	74.61	323 eP	55 43.00	-1.3		
YKA	76.12	26 eP	55 52.50	-0.3		
	1.1s	3.90nm		4.4mb		
UPP	76.40	331 iP	55 53.30	-1.1		
		i	55 55.30	6kmX		
HFS	77 87	333 eP	56 01.30	-1.3		
	0.4s	3.50nm		4.7mb		
	Z 17s	409.00um		7.8MszX		
		LR	26 27.00			
NB2	78.31	334 P	56 03.90	-1.1		
	0 6s	5.20nm		4.7mb		
VRI	78 84	316 ePd	56 09.50	1.3		
ZST	83 20	322 eP	56 33.60	2.5		
CLL	83.49	326 iP	56 32.90	0.3		
	1 1s	31 00nm		5.4mb		
PRU	83.51	324 eP	56 33.50	0.8		
	Z 15s	0 80um		5.2MszX		
VAY	83.74	314 eP	56 34.50	0.5		
SKO	84 11	315 iP	56 36.00	0.1		
KHC	84 53	324 eP	56 39.00	1.1		
	1 3s	12 00nm		5.0mb		
	Z 14s	1.00um		5.4MszX		
	N 14s	0.50um				
	E 14s	0.60um				
		e	57 07.00	107kmX		
MOX	84 59	326 iPd	56 39.30	1.1		
	1 6s	23.00nm		5.2mb		
GEC2	84.64	324 P	56 37.80	-0.7		
	0 8s	5.31nm		4.8mb		
		e	56 43.10	17km		
		e	56 47.90			
HOF	84 67	325 iPc	56 40.40	1.8		
OHR	84.98	314 iP	56 38.50	-1.9		
GRF	85.39	325 ePc	56 43.30	1.1		
	1.5s	52.00nm		5.5mb		
	Z 17s	0.70um		5.1MszX		
BHG	85.76	323 iPd	56 45.50	1.4		
VBY	85.80	320 e(P)	56 45.00	0.7		
LJU	85.88	321 e(P)	56 45.00	0.3		
KBA	85.91	322 iPc	56 46.60	1.6		
	0.9s	9.60nm		5.0mb		
		i	56 51.60	16km		
FCC	85.99	21 eP	56 52.00	7.1X		
RBL	86.17	322 P	56 46.60	0.4		
VOY	86.24	321 eP	56 46.80	0.2		
		e	56 56.30	30km		
FVI	86.51	322 P	56 48.50	0.8		
WTTA	86.71	323 i(P)	56 50.50	1.5		
	1.0s	10.80nm		5.0mb		
LRM	87.13	38 eP	56 52.40	1.2		
FRB	87.26	8 eP	56 51.00	0.0		
	0.9s	6.00nm		4.8mb		
EKA	87.73	335 Pd	56 53.40	-0.1		
	1.2s	11.90nm		5.1mb		
PGD	88.79	320 P	57 03.00	4.0X		
SOI	89.72	314 P	57 03.60	0.3		
MSU	91 84	44 eP	57 14.86	1.4		
ULM	92.00	27 eP	57 17.50	3.9X		
SRU	92 46	43 (P)	57 17.58	1.4		
LPB	159.67	59 ePKP	04 07.00	2.5		
CNCB	159.93	60 ePKP	04 07.00	2.0		
	S.D. = 1.1	on 76 of 82 obs.				

? MAY 20, 1993 08h 55m 12.85± 1.18s
40.673 N ± 6.3km 22.963 E ±12.8km
DEPTH = 5.0km (geophysicist)
GREECE (364)

THE	0.04	177 ePg	55 13.80	-0.4		
		iSg	55 14.68			
SOH	0.33	63 ePg	55 19.20	-0.4		
KNT	0.49	354 iPg	55 22.90	0.2		
		eSg	55 30.20			
PAIG	0.93	143 iPg	55 31.46	0.5		
		eSg	55 45.72			

S.D. = 0.8 on 4 of 4 obs.

% MAY 20, 1993 09h 01m 36.26± 0.73s
42.723 N ± 6.2km 13.063 E ±10.3km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

MNS	0.44	220 Pc	01 44.80	-0.5		
		eSg	01 53.00			
AQU	0.45	146 P	01 45.00	-0.4		
		eSg	01 53.00			
ASS	0.46	320 P	01 44.00	-1.6		
		eSg	01 50.80			
ARV	0.78	354 Pd	01 50.00	-1.5		
		eSg	02 00.60			
SDI	1.16	151 P	01 58.50	0.5		
		eSg	02 15.00			
CRE	1.22	318 P	01 59.50	0.5		
		eSg	02 15.10			
RSM	1.28	340 P	02 01.00	1.0		
SFI	1.49	324 P	02 03.60	0.6		
PGD	1.51	320 P	02 04.80	1.3		

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

% MAY 20, 1993 09h 11m 37.59± 1.19s
39.212 N ± 7.8km 27.802 E ±13.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

IZM	0.92	208 ePg	11 55.00	-0.1		
		eSg	12 09.00			
KCT	1.12	22 iPn	11 59.10	0.5		
EDC	1.13	2 ePn	11 58.50	-0.3		
EZN	1.30	299 iPn	12 02.00	0.4		
KGT	1 30	343 iPn	12 01.10	-0.5		

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

& MAY 20, 1993 09h 19m 53.43s
36.105 N 117.700 W
DEPTH = 1.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<PAS-P>. ML 3.4 (PAS), 3.4 (GS), 3.7 (BRK).

WCHM	0.38	234 P	20 00.93	0.0		
WORM	0.60	227 P	20 04.96	-0.4		
ISA	0.77	235 ePc	20 08.08	-0.7		
		eS	20 18.20			
WASM	0.79	242 P	20 08.48	-0.6		
WJPM	0.94	223 P	20 11.21	-0.9		
SNDC	1.08	207 P	20 13.63	-1.0		
GSC	1.08	137 ePd	20 13.56	-1.1		
		eS	20 27.88			
BMTC	1.21	217 P	20 15.84	-1.1		
TPNV	1.44	54 eP	20 20.04	-0.7		
PLEC	1.59	225 P	20 24.55	1.6		
MARC	1.73	231 P	20 25.68	0.8		
ABL	1.76	225 eP	20 25.04	-0.5		
FRI	1.84	299 eP	20 26.60	0.1		
		eS	20 50.60			
MEMM	1.85	328 eP	20 27.46	1.0		
CRGC	1.86	243 P	20 27.84	1.0		
SSK	1.89	180 ePn	20 26.54	-0.8		
BONR	1.91	346 eP	20 27.37	-0.3		
PHBM	1.93	275 P	20 29.28	1.5		
PKEM	1.95	269 (P)	20 27.27	-0.8		
YEG	1.95	251 P	20 29.28	1.1		
TNP	2 01	11 ePn	20 29.46	0.4		
PMRM	2.08	262 P	20 31.05	1.1		
PTRM	2.09	258 P	20 30.84	0.8		
PSRM	2.11	264 P	20 31.54	1.2		
PARM	2.14	275 P	20 32.30	1.5		
CTM	2.14	266 P	20 32.52	1.6		
BCH	2.15	245 ePn	20 31.12	0.1		
PDRM	2.17	277 P	20 32.77	1.5		
PHAM	2.21	264 eP	20 32.12	0.4		
		eS	21 05.42			
PCRM	2.21	271 P	20 33.09	1.2		
PEC	2.25	169 eP	20 31.23	-1.2		
WKR	2.30	264 P	20 34.62	1.5		
SCCM	2.33	241 P	20 35.22	1.7		
PRCM	2.37	275 P	20 34.91	0.8		
PMGM	2.39	254 P	20 35.49	1.1		
PRI	2.40	272 iP	20 35.51	0.8		
BRMM	2.62	287 P	20 40.40	2.7		
PANM	2.62	264 P	20 38.70	1.0		
LLA	2.67	282 eP	20 36.50	-1.8		
PLM	2.83	166 ePnd	20 39.37	-1.5		
		ePg	20 45.55			
CMB	2.88	313 ePc	20 43.67	2.2		
		eS	21 22.07			
KVN	2.96	354 (Pn)	20 43.32	0.7		
HJSM	2.99	285 P	20 50.58	7.7		
SAO	3.09	283 eP	20 44.42	0.1		
ARN	3.32	293 (P)	20 47.41	-0.2		
MHC	3.40	292 eP	20 51.72	2.9		
		eS	21 38.73			
ARUT	3.80	63 ePn	20 52.74	-1.9		
		ePg	21 04.29			
GLA	3.86	141 ePn	20 51.85	-3.5		
		eS	21 55.21			
ORV	4.57	320 ePn	21 05.40	0.1		
		ePg	21 16.29			
		eS	22 13.94			
MSU	5.02	60 ePn	21 10.59	-1.3		
		ePg	21 26.68			
DUG	5.61	42 (Pn)	21 19.17	-1.1		
		ePg	21 36.98			
SRU	6.44	60 ePn	21 31.14	-0.8		
		ePg	21 53.82			
DAU	6.65	48 ePg	21 58.11	23.1		
HVU	6.84	33 ePg	21 59.98	22.4		
		eSg	23 26.64			

54 obs. associated

& MAY 20, 1993 09h 20m 36.61s
36.090 N 117.709 W
DEPTH = 0.1km
CALIFORNIA-NEVADA BORDER REGION (40)
<PAS-P>. ML 3.3 (PAS), 3.0 (GS).

ISA	0.75	236 eP	20 50.45	-1.2		
		eS	21 00.93			
GSC	1.08	137 ePd	20 55.63	-2.2		
		eS	21 11.61			
TPNV	1.45	53 (P)	21 03.27	-1.1		
		eS	21 22.76			
ABL	1.75	225 (P)	21 06.58	-2.0		
MEMM	1.86	328 (P)	21 08.64	-1.3		
SSK	1.88	180 (Pn)	21 08.02	-2.4		
BONR	1.92	346 (P)	21 08.81	-2.4		
TNP	2.03	11 (P)	21 12.05	-0.6		
CMB	2.89	313 (P)	21 22.28	-2.6		
		eS	22 02.89			

9 obs. associated

& MAY 20, 1993 09h 24m 33.16s
36.117 N 117.696 W
DEPTH = 1.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<PAS-P>. ML 2.9 (PAS), 2.9 (GS).

VPEM	0.19	210 P	24 37.08	0.0		
WCHM	0.39	233 P	24 40.72	-0.2		
WLHM	0.50	274 P	24 43.04	-0.1		
WSHM	0.51	161 P	24 43.40	0.0		
WORM	0.61	227 P	24 44.75	-0.6		
WBSM	0.68	212 P	24 46.25	-0.5		
ISA	0.78	235 eP	24 47.90	-0.8		
		eS	24 58.08			
WASM	0.79	242 P	24 48.40	-0.6		
WJPM	0.95	222 P	24 51.09	-1.1		
WOFM	1.01	235 P	24 52.25	-1.0		
GSC	1.09	138 ePd	24 53.52	-1.0		
		eS	25 08.83			
BMTC	1.22	217 P	24 55.79	-1.1		
BHPR	1.34	332 P	24 58.68	-0.2		
ARVC	1.35	223 P	24 58.68	-0.3		
TPNV	1.43	54 eP	25 00.19	-0.2		
		eS	25 18.76			

MARC	1.74	231	P	25 05.34	0.6
ABL	1.77	225	eP	25 05.52	0.1
MCSM	1.82	328	P	25 07.80	1.7
MEMM	1.84	328	ePn	25 05.78	-0.3
CRGC	1.87	243	P	25 07.78	1.1
BONR	1.90	345	ePn	25 06.97	-0.3
SSK	1.90	180	ePn	25 06.43	-0.8
PHBM	1.94	275	P	25 09.31	1.8
PKEM	1.96	269	eP	25 07.93	0.1
YEG	1.96	250	P	25 09.22	1.2
TNP	2.00	11	ePn	25 09.22	0.6
PARM	2.14	274	P	25 12.38	1.8
BCH	2.16	245	ePn	25 11.47	0.6
PDRM	2.17	277	P	25 12.85	1.9
PHAM	2.21	264	eP	25 11.50	0.0
PEC	2.26	169	ePn	25 11.05	-1.3
SCCM	2.34	241	P	25 15.42	2.0
PLM	2.84	166	ePn	25 19.23	-1.5
			ePg	25 25.37	
CMB	2.88	312	eP	25 22.98	1.9
			eS	25 58.96	
KVN	2.95	354	(P)	25 22.78	0.6
ARN	3.32	293	(P)	25 27.82	0.5
ARUT	3.79	63	ePn	25 31.75	-2.5
			ePg	25 44.11	
GLA	3.87	141	(Pn)	25 34.29	-0.9
DUG	5.60	42	ePg	26 22.34	22.5

39 abs. associated

& MAY 20, 1993 10h 28m 32.52s
36.097 N 117.701 W
DEPTH = 1.2km
CALIFORNIA-NEVADA BORDER REGION (40)
<PAS-P>. ML 2.7 (PAS), 2.8 (GS).

ISA	0.76	236	eP	28 46.74	-1 0
			eS	28 56.50	
GSC	1.08	137	ePd	28 52.53	-1 2
			eS	29 07.99	
TPNV	1.45	54	eP	28 59.25	-0.7
			eS	29 18.43	
ABL	1.76	225	eP	29 04.14	-0 3
SSK	1.88	180	eP	29 05.87	-0.4
BONR	1.92	346	eP	29 06.54	-0.3
TNP	2.02	11	eP	29 08.45	0.2
			eS	29 38.29	
BCH	2 14	246	eP	29 10.22	0.2
			eS	29 36.19	
PHAM	2.20	264	eP	29 10.77	0.0
PEC	2 24	168	eP	29 10.12	-1.3
PLM	2.82	166	ePn	29 18.36	-1.4
			ePg	29 24.24	
			eS	30 01.95	
CMB	2.89	313	eP	29 22.91	2.3
			eS	30 00.89	
KVN	2.97	354	ePn	29 23.61	1.8
ARUT	3.81	62	(Pn)	29 33.65	-0.1
			ePg	29 43.65	
GLA	3.85	141	ePn	29 31.27	-3.0
MSU	5.02	60	(Pn)	29 49.33	-1.7
			ePg	30 05.55	
SRU	6.44	60	(Pn)	30 10.24	-0.8
			ePg	30 32.07	

17 obs. associated

% MAY 20, 1993 10h 43m 28.15± 3.38s
40.127 N ±12.5km 24.020 E ±27.7km
DEPTH = 5.0km (geophysicist)
AEGEAN SEA (365)

OUR	0.21	352	iPg	43 32.66	0.2
			eSg	43 35.82	
PAIG	0.33	233	iPg	43 34.78	0.0
			eSg	43 38.62	
SOH	0.86	324	ePg	43 45.02	-0.2
			iSg	43 55.82	
THE	0.95	302	ePg	43 46.86	0.2
			eSg	43 58.46	
SRS	1.04	342	ePg	43 48.06	-0.2
			iSg	44 01.98	

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

MAY 20, 1993 11h 08m 11.21± 0.11s
0.023 S ± 2.7km 124.793 E ± 3.4km
DEPTH = 29.8km (2 depth phases)
5.9mb (77 obs.)
SOUTHERN MOLUCCA SEA (269)

Mw 5.7 (HRV)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 45S, **C
Centroid Location:
Origin Time 11:08:18.3 0.2
Lat 0.13S 0.02 Lon 125.29E 0.02
Dep 49.2 1.6 Half-duration 1.7
Moment Tensor; Scale 10**17 Nm
Mrr= 3.30 0.08 Mtt=-1.10 0.10
Mff=-2.20 0.14 Mrt= 0.72 0.12
Mrf= 1.89 0.12 Mtf=-1.65 0.09
Principal Axes:
T Val= 3.89 Plg=73 Azm=279
N 0.04 7 32
P -3.93 15 124
Best Double Couple:Mo=3.9**17
NP1:Strike=224 Dip=30 Slip= 103
NP2: 28 61 82

MNI	1.46	2	ePd	08 41.50	5.8X
PCI	5.03	260	ePc	09 34.80	8.1X
			eS	09 58.70	
DAV	7.11	6	eP	10 01.00	5.1X
CTB	7.20	355	eP	10 07.00	9.8X
			iS	11 34.00	
TSM	8.14	302	iPc	10 14.00	3.7X
			e	11 47.00	
			e	17 15.00	
CGP	8.42	359	iPc	10 19.50	5.2X
KKM	10.47	305	iPd	10 47.90	5.3X
			e	12 45.50	
PLP	11.12	1	ePc	10 54.80	3.5X
KHKI	12.35	228	eP	11 20.00	12.1X
			e	16 46.90	
PGP	13.97	344	iPd	11 36.50	7.1X
MTN	14.21	154	eP	11 31.50	-1.0
	0.4s		217.00nm		6.1mb
TGY	14.55	345	iPc	11 45.00	7.9X
OVP	15.03	346	ePc	11 50.00	6.7X
BCP	16.85	346	eP	12 10.00	3.2X
SZP	17.98	346	iPd	12 25.00	4.3X
PIP	18.69	348	iPd	12 31.00	1.5
WB2	21.90	155	iPd	13 01.40	-2.5
	0.6s		182.50nm		5.7mb
KLM	23.34	278	ePc	13 21.50	3.4X
GUMO	24.05	55	eP	13 25.60	0.7
	1.0s		327.20nm		5.8mb
PJG	24.05	55	eP	13 25.30	0.4
GUA	24.06	55	eP	13 25.70	0.7
PMG	24.14	113	eP	13 24.00	-1.8
IPM	24.18	281	ePc	13 28.00	1.8
	0.8s		475.20nm		6.1mb
			e	20 42.00	
HKC	24.49	336	P	13 30.80	1.7
			eS	17 14.00	
ASPA	25.11	160	iPd	13 34.80	-0.4
	1.1s		419.50nm		6.0mb
			ePcP	17 09.60	
			eS	17 55.70	
			eScP	20 44.30	
			eScS	24 30.00	
			e	25 01.60	
MEEK	27.12	192	iPc	13 53.10	-0.6
	0.5s		24.00nm		5.1mb
RAB	27.66	99	iPd	13 59.00	0.3
	1.0s		483.87nm		6.1mb
LOE	28.56	309	eP	14 08.00	1.2
NST	28.92	304	iPc	14 11.00	1.0
CTA	28.97	135	iPd	14 10.00	-0.5
	1.6s		100.00nm		5.3mb
			i	14 40.00	141kmX
			eS	18 30.00	
			e(SS)	19 00.00	
			iScP	20 56.00	
			i(ScS)	22 37.00	
KHT	29.79	301	iPc	14 19.40	1.4
MRWA	30.22	195	eP	14 21.00	-0.6
BDT	30.65	305	eP	14 19.00	-6.5X
	1.0s		96.60nm		5.6mb
SSE	31.14	354	P+	14 29.00	-0.6
	1.5s		80.00nm		5.3mb
Z	24s		3.00um		4.9MszX
N	16s		0 50um		
E	16s		0.50um		
			i	15 25.50	289kmX
			i	17 24.80	
			S	19 12.00	
			sS	19 29.00	
BAL	31.37	193	eP	14 31.00	-0.7
CHTO	31.53	308	iPc	14 34.20	0.9
KAGJ	31.57	10	iP+	14 33.10	-0.3
KLB	32.10	191	eP	14 37.00	-1.0
OLP	32.37	146	iPd	14 39.10	-1.4
MUN	32.80	194	eP	14 43.50	-0.7
KMI	32.86	321	Pc+	14 46.50	1.5
	1.6s		350.00nm		6.0mb
Z	20s		1.60um		4.7Msz
N	20s		1.60um		
E	20s		3.90um		
			sP	15 16.00	
			S	20 01.00	
			sS	20 21.00	
KUMJ	32.88	9	iP+	14 44.50	-0.3
NWAO	33.49	192	eP	14 49.70	-0.5
SHNJ	34.48	9	iP+	14 58.10	-0.6
TKSJ	34.93	13	eP	15 02.90	0.4
STK	35.45	155	iPd	15 06.80	-0 2
	0.6s		125.50nm		6.0mb
			iS	20 35.80	
			iScP	21 17.80	
			iScS	25 18.30	
WKYJ	35.54	15	eP	15 08.30	0.5
YONJ	35.95	12	eP	15 12.00	0.8
TSRJ	36.88	15	P	15 19.40	0.4
ADE	37.12	161	iPd	15 21.40	0.3
CHJJ	38.24	19	P	15 29.50	-1.0
BRS	38.24	138	iPc	15 30.00	-0.6
	0.6s		3.00nm		4.3mb X
			i	15 32.00	7kmX
			i	15 58.50	
			ePP	16 59.00	
			e	17 44.00	
			eS	21 00.00	
			e	21 29.00	
MTMJ	38.37	17	P	15 31.50	-0.2
MAT	38.45	17	iPc+	15 31.40	-0.8
	1.0s		108.00nm		5.6mb
Z	20s		1.06um		4.7Msz
			eS	21 19.00	
KAKJ	38.78	20	eP	15 32.30	-2.6
NIIJ	39.34	18	P	15 38.30	-1.3
ARMA	39.56	142	iPd	15 41.60	-0.1
	0.8s		44.00nm		5.3mb
			e	21 36.10	
YAMJ	40.52	19	P	15 50.10	0.8
SHL	40.70	311	iPc	15 51.40	0.2
			eS	21 37.40	
BWA	40.75	150	iPd	15 53.40	2.1
			i	16 17.40	103kmX
LZH	40.87	334	iPc	15 53.00	0.6
	1.6s		525.00nm		6.0mb
Z	30s		6.16um		5.3MszX
N	13s		0.69um		
			pP	16 17.00	103kmX
			sP	16 29.00	
			PcP	17 53.00	
			ScP	21 37.00	
			PcS	21 50.00	
			eS	21 56.00	
			ScS	25 48.00	
CAN	41.75	150	iPd	16 00.50	1.0
			e	16 24.80	104kmX
			ePcP	17 56.60	
			eScP	21 42.80	
OFUJ	41.88	20	P	16 01.40	1.0
CNB	41.93	149	iPd	16 03.00	2.0
	0.9s		61.00nm		5.3mb
TOO	41.97	155	iPd	16 02.20	0.9
	1.0s		182.00nm		5.8mb
AOMJ	42.81	18	P	16 09.50	1.5
VLA	43.42	8	iPc	16 14.00	1.0
	1.0s		240.00nm		5.9mb
			isP	16 30.00	596kmX
			e	17 59.00	
			iS	22 30.00	
			e	26 06.00	
			iSSS	26 40.00	
MRRJ	44.73	17	eP	16 24.50	0.9
HOOJ	45.38	19	eP	16 30.10	1.3
BKM	46.19	115	iPc	16 35.00	-0.6
GUN	46.50	310	P	16 38.00	-0.3
KUSJ	46.50	20	eP	16 38.20	0.6
PKI	46.69	309	P	16 39.00	-0.8

20d 11h

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ZST   101.75 319 ePdiff22 02.40  -0.4
                 ePP   26 16.80
PRU   102.93 322 ePdiff22 08.00   0.0
PTJ   103.05 317 iPdiff22 08.00  -0.8
BRG   103.05 323 iPdiff22 08.40  -0.1
       1.4s    30.00nm          5.8mb
                 e     25 17.60
CLL   103.49 323 iPdiff22 10.20  -0.3
       1.9s    42.00nm          5.9mb
VBY   103.62 317 e(Pdif22 11.50   0.3
YKA   103.69  24 ePdiff22 10.60  -0.5
       1.1s     4.20nm          5.2mb
KHC   103.77 321 ePdiff22 12.00   0.2
       1.2s    10.00nm          5.5mb
                 e     22 37.00
                 e     25 01.00
                 e     26 05.00
                 PP    26 33.00
GEC2  103.77 321 Pdiff 22 11.30  -0.6
       1.1s     3.32nm          5.1mb
                 e     22 13.80
                 e     26 30.50
LJU   103.97 318 e(Pdif22 12.00  -0.8
                 ePP   26 30.00
VOY   104.41 318 e(Pdif22 15.00   0.2
                 ePP   26 34.40
MOX   104.53 323 iPdiff22 15.40   0.3
       1.6s    24.00nm          5.8mb
     Z  22s     0.20um          4.6Msz
GRF   105.07 322 ePdiff22 18.30   0.7
       2.0s    50.00nm          6.1mb
     Z  31s     0.70um          5.0MszX
                 ePP   26 42.20
LON   105.86  41 PKP   26 32.30  -1.6
BCAO  106.21 275 iPKPd 26 34.90  -0.6
       0.7s    15.00nm
WDC   107.08  47 PKP   26 50.00  13.7X
     Z  21s     0.86um          5.3Msz
ORV   108.12  48 PKP   26 36.80  -1.5
BSF   108.46 321 iPKPc 26 38.40  -0 4
       1.1s    11.50nm
LPG   109.33 319 ePdiff22 37.10   0.1
       0.9s     4.60nm
LPG   109.33 319 iPKPc 26 40.80   0.0
       0 9s     7 35nm
LPL   109.33 319 ePdiff22 37.00   0.1
       1.2s    14.00nm
LPL   109 33 319 iPKPc 26 40.70   0.0
       0 8s     8 20nm
CMB   109.37  49 PKP   26 50.00   9.2X
     Z  21s     0.48um          5.0Msz
LBF   110.55 321 iPKPc 26 42.60  -0.1
SSF   110.81 321 iPKPc 26 43.30   0.1
       1 1s    17.10nm
BGF   111.43 321 iPKPc 26 44.50   0.1
       1.1s    21.75nm
ISA   111.50  51 PKP   26 50.00   5.1X
     Z  20s     0 45um          5.1Msz
TCF   111.95 321 iPKPc 26 45.60   0.2
LRM   112.25  39 ePKP  26 46.60   0.3
CAF   112.60 320 ePKP  26 47.20   0.5
GSC   112.91  51 PKP   26 48.50   0.9
PEC   113.04  53 PKP   26 48.10   0.2
LPO   113.27 320 iPKPc 26 48.50   0.6
MFF   113.28 322 ePKPc 26 47.80   0.0
       1.1s    22.20nm
HVU   113.66  44 PKP   26 49.70   0.7
FCC   113.96  21 ePKP  26 54.00   5.2X
DUG   114.24  45 PKP   26 51.10   0.9
     Z  21s     0.31um          4.9Msz
EPF   114.53 318 iPKPc 26 50.50   0 0
DAU   115.26  44 PKP   26 52.50   0 2
EGRA  115.32 318 ePKP  26 54.20   2.3X
MSU   115.33  47 PKP   26 53.50   1.1
BW06  115.43  41 PKP   26 51.40  -1.1
SRU   116.29  46 PKP   26 53.50  -0.7
ECRI  116.60 319 ePKP  26 55.30   0.8
RSSD  118.32  38 PKP   26 57.40  -0.5
     Z  21s     0.14um          4.6Msz
EVIA  118.35 315 ePKP  26 58.40   0.4
GUD   118.59 318 ePKP  26 58.70   0.3
TUC   118.61  53 PKP   26 59.40   0.8
     Z  19s     0.32um          5.0Msz
ULM   119.16  29 ePKP  27 01.00   2.0
EBAN  119.46 315 ePKP  27 00.50   0.5
GOL   119.64  43 PKP   27 00.90   0.3
     Z  20s     0.39um          5.0Msz
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EGUA  119.88 313 ePKP  27 00.50  -0.3
ELUQ  120.07 315 ePKP  27 01.30   0.1
EPLA  120.16 318 ePKP  27 02.30   1.0
STS   120.32 322 ePKP  27 01.90   0.5
EHOR  120.64 315 ePKP  27 02.80   0.6
EPRU  121 02 314 ePKP  27 03.20   0.2
EJIF  121.42 314 ePKP  27 04.40   0.7
EVAL  121.81 316 ePKP  27 05.40   1.0
JAO   123.77  14 ePKP  27 06.50  -1.2
ACO   125.38  43 iPKPc 27 10.40  -1.0
LTX   125.40  53 PKP   27 10.40  -1.4
MEO   126.76  45 iPKPc 27 14.40   0.2
EEO   129.08  21 ePKP  27 21.50   3.3X
KIC   129.25 278 PKP   27 19.40   0.0
TIC   129.50 279 PKP   27 20.00   0.1
LIC   129.55 278 PKP   27 20.00   0.0
     Z  22s     0.15um          4.6Msz
FVM   130.23  37 PKP   27 20.20  -0.4
MIAR  130.35  42 PKP   27 21.40   0.5
     Z  19s     0.35um          5.1Msz
ELF   131.07  25 PKP   27 22.45   0.4
GAC   131.12  19 ePKP  27 23.00   1.0
OLY   131.16  40 PKP   27 22.80   0.3
DLA   131.23  26 PKP   27 22.70   0.3
LDN   131.25  25 PKP   27 22.60   0.2
ELC   131.40  37 PKP   27 23.00   0.2
CBM   131.93  12 PKP   27 28.30   4.7X
     Z  19s     0.41um          5.1Msz
RSNY  132.46  19 PKP   27 24.50  -0.2
     Z  20s     0.17um          4.8Msz
LMN   133.58   9 ePKP  27 30.50   3.7X
MCWV  134 58  27 PKP   27 40.00  11.2X
     Z  20s     1.42um          5.7Msz
HRV   135.22  17 PKP   27 40.00  10.1X
     Z  20s     0.32um          5 0Msz
MAMG  135.81 285 PKP   27 29.70  -2.3
MYNC  135.90  35 PKP   27 31.40  -0.1
     Z  20s     0 36um          5.1Msz
KING  136.74 285 PKP   27 31.80  -1.9
GOGA  137.47  36 PKP   27 34.30  -0.2
     Z  21s     0.33um          5.0Msz
PRM   137.62  34 PKP   27 24.80 -10.0X
CEH   137.96  29 PKP   27 35.70   0.3
     Z  20s     0.25um          5.0Msz
JSC   138.09  33 PKP   27 35.70   0.1
PEL   143.93 158 ePKPd 27 42.00  -4.1X
MDZ   144.83 160 i(PKP)27 47.80   0.1
RTBS  145.72 158 ePKPc 27 50.80   1.7
RTCV  145.87 160 ePKPc 27 50.00   0.6
RTCB  146.12 159 ePKPd 27 51.20   1.3
CFA   146.21 160 ePKPd 27 50.50   0.5
RTLL  146.38 159 iPKPc 27 50.70   0.4
TCA   147.57 165 ePKPc 27 53.20   1.0
RTPR  147.98 161 ePKPd 27 53.90   1.2
CYA   149.93 161 ePKPd 27 56.80   0.9
FSA   152.03 159 iPKPd 28 07.00   8.0X
SLA   153.46 159 ePKPd 28 03.20   1.9
                 e     28 10.30
HJA   154.86 157 ePKPc 28 06.50   3.5X
YJA   155.77 156 e(PKP)28 07.20   2.3X
PPD   157.75 190 ePKP  28 08.10   1.2
CNCB  159.06 144 iPKPc 28 11.10   2.0
                 LR    53 34.00
LPB   159.21 143 PKP   28 12.10   3.0X
CCH   159.63 149 ePKP  28 08.00  -1.5
      S.D. = 0.9  on 248 of 289 obs.
-----------------------------------------
%  MAY  20, 1993  11h 32m 34.36± 0.75s
    44.341 N ± 7.3km     7.252 E ± 9.5km
    DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                    (545)
      ML 1.7 (GEN).

STV      0.11 152 P      32 37.37   0.1
                  S      32 38.79
ENR      0.17 133 P      32 38.28   0.1
                  S      32 40.34
PZZ      0.20 327 P      32 39.29   0.5
                  S      32 42.54
ROB      0.45  96 P      32 43.63   0.2
                  S      32 50.00
BHB      0.50   1 P      32 44.40  -0.1
                  S      32 51.28
IMI      0.63 133 P      32 46.83  -0.2
RRL      0.67 330 P      32 47.37  -0.4
      S.D. = 0.4  on   7 of   7 obs.
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&  MAY  20, 1993  12h 47m 22.60s
    40.463 N          125.233 W
    DEPTH =   6.0km
 OFF COAST OF NORTHERN CALIFORNIA( 34)
      <BRK>. ML 3.0 (BRK). MD 3.1
      (GM).

KCTM     0.68  89 P      47 36.74   0.4
KSMM     0.86 109 P      47 38.16  -1.4
EKR      0.86  74 iP     47 38.98  -0.6
                 eS     47 51.02
FOX      0.95  86 iP     47 40.54  -0.5
                 eS     47 54.24
ARC      0.97  64 iPc    47 40.31  -1.1
                 eS     47 52.94
FHC      1.01  70 iP     47 41.27  -0.8
KCRM     1.08  91 P      47 42.34  -1.0
KRPM     1.15  53 P      47 43.02  -1.5
KHMM     1.21  70 P      47 44.40  -1.3
KGMM     1.22  76 P      47 44.70  -1.1
KKPM     1.49 102 P      47 47.27  -2.7
KHBM     1.55  82 P      47 49.20  -1.7
KOMM     1.58  58 P      47 49.20  -2.1
KSPM     1.63 125 P      47 49.04  -3.0
GNAM     1.77 135 P      47 49.77  -4.1
GBDM     1.80 124 P      47 51.75  -2.6
GHOM     1.93 137 P      47 53.88  -2.4
GWRM     1.95 129 P      47 53.81  -2.8
WDC      2.06  86 ePc    47 55.98  -2.1
                 eS     48 20.38
GSNM     2.19 133 P      47 57.52  -2.6
GHLM     2.22 129 P      47 57.59  -3.0
GMCM     2.33 135 P      47 59.00  -3.1
SKG      2.46 135 P      48 00.98  -2.9
FTR      2.51 140 P      48 01.71  -3.0
LBFM     2.68  70 ePd    48 06.18  -1.1
MIN      2.77  91 eP     48 06.17  -2.4
LSLM     2 82  89 P      48 07.36  -1 8
ORV      3.01 106 eP     48 09.36  -2.3
      28 obs. associated
-----------------------------------------
%  MAY  20, 1993  12h 50m 00.39± 1.24s
    39.359 N ± 5.3km    14 974 E ±11.0km
    DEPTH =  10.0km  (geophysicist)
 TYRRHENIAN SEA                    (389)

MGR      0.90  30 P      50 17.50  -0.1
                 eSg    50 29.10
CZI      0.91  99 P      50 17.10  -0.7
TDS      1.10  74 P      50 21.40   0.4
                 eSg    50 35.50
CSI      1.10  67 P      50 21.40   0.4
SGO      1.22  12 P      50 23.00  -0.1
                 eSg    50 40.50
ROI      1.25  80 P      50 23.70   0.0
ATN      1.26 162 P      50 24.10   0.4
SOI      1.54 146 P      50 27.60  -0.3
      S.D. = 0.4  on   8 of   8 obs.
-----------------------------------------
&  MAY  20, 1993  12h 55m 24.47s
    62.145 N          150.555 W
    DEPTH =  60.4km
 CENTRAL ALASKA                    (  1)
      <AEIC>. ML 2.7 (AEIC), 2.7
      (PMR).

CUT      0.29  27 eP     55 34.11  -0.5
                 eS     55 42.15
SKT      0.49 251 iP     55 35.77  -0.7
                 eS     55 44.99
PWA      0.59 147 P      55 37.20  -0.3
                 S      55 47.60
SUA      0.69 188 eP     55 38.51  -0.3
                 eS     55 50.14
GHO      0.86 115 eP     55 40.45  -0.4
PLRM     0.87 129 iP     55 40.43  -0.5
                 eS     55 54.56
PMR      0.87 129 eP     55 39.89  -1.1
                 eS     55 53.60
HUR      0.94  27 iP     55 41.07  -0.8
                 eS     55 54.04
PMS      1.02 152 P      55 42.90  -0.1
                 S      55 57.00
SML      1.10 107 eP     55 43.44  -0.6
CRP      1.17 222 eP     55 43.83  -1.2
                 eS     55 59.75
CPAM     1.17 221 eP     55 44.46  -0.6
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20d 12h

CP2	1.19	223	eP	55	44.62	-0.9
			eS	56	00.81	
SPU	1.20	217	eP	55	44.80	-0.7
			eS	56	01.59	
CKN	1.21	221	eP	55	45.46	0.0
CKT	1.23	220	eP	55	45.32	-0.6
BGL	1.24	225	eP	55	45.88	-0.2
CKL	1.28	223	eP	55	45.93	-0.6
TRF	1.32	5	iP	55	46.07	-1.1
			eS	56	02.57	
NKA	1.44	193	eP	55	50.42	1.7
PTE	1.48	150	eP	55	48.48	-0.7
RND	1.49	31	eP	55	48.17	-1.2
SLKM	1.65	174	eP	55	51.14	-0.5
MCK	1.76	24	eP	55	52.59	-0.5
MPA	1.76	160	eP	55	52.38	-0.7
			eS	56	13.33	
DFR	1.87	214	eP	55	54.34	-0.3
NCT	1.96	217	eP	55	55.60	-0.4
RDW	1.99	214	eP	55	56.37	-0.1
SEW	2.12	165	eP	55	58.67	0.6
VLZ	2.26	115	eP	55	58.41	-1.6
KLU	2.30	105	eP	55	59.18	-1.5
SDG	2.37	78	eP	56	02.25	0.6
BRLK	2.39	184	eP	56	02.98	1.0
INW	2.43	212	eP	56	03.07	0.5
PAX	2.50	68	eP	56	03.22	-0.3
WRH	2.59	24	eP	56	02.87	-1.8
HIN	2.63	130	eP	56	03.66	-1.6
SVW	2.63	249	eP	56	02.75	-2.6
CNPM	2.65	188	eP	56	06.11	0.5
TTA	2.65	290	eP	56	03.33	-2.3
HDA	2.79	34	eP	56	05.86	-1.8
CCB	2.80	25	eP	56	05.63	-2.1
CVA	2.82	123	eP	56	07.50	-0.4
MLY	2.90	358	eP	56	07.23	-2.0
FBA	3.03	23	eP	56	08.32	-2.7
SGAM	3.06	120	eP	56	11.30	-0.1
GLM	3.19	25	eP	56	11.33	-1.9
RAGM	3.34	119	eP	56	14.25	-1.2
CDD	3.57	207	eP	56	18.94	0.4
CROM	3.82	108	eP	56	22.20	-0.1
BALM	4.08	102	eP	56	23.52	-2.3
IMA	4.17	342	eP	56	24.40	-2.7

52 obs. associated

? MAY 20, 1993 13h 04m 48.20± 0.99s
26.345 S ± 7.4km 27.455 E ±11.2km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)

PRY	0.58	178	eP	04	58.90	-1.0
			S	05	05.30	
KSR	0.69	313	eP	05	02.00	-0.1
			S	05	12.00	
SLR	0.96	51	eP	05	06.90	-0.1
			S	05	17.50	
SEK	1.98	176	eP	05	24.00	1.2
			S	05	48.50	

S.D. = 1.5 on 4 of 4 obs.

% MAY 20, 1993 13h 31m 54.65± 1.07s
26 833 S ± 8.2km 27.074 E ±11.7km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)

PRY	0.37	105	eP	32	02.00	-0.1
KSR	0.98	351	eP	32	13.00	-0.8
			S	32	25.00	
SLR	1.54	45	eP	32	24.00	1.1
			S	32	44.60	
SEK	1.56	162	eP	32	22.00	-1.3
			S	32	42.00	
BLF	2.40	199	e(P)	32	36.50	1.1

S.D. = 1.5 on 5 of 5 obs.

% MAY 20, 1993 13h 32m 56.63± 0.65s
26.865 S ± 6.3km 26.671 E ± 5.7km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.7 (PRE).

BFS	0.11	108	iPd	32	58.70	-0.3
PRY	0.72	95	iPd	33	10.20	-0 8
			S	33	18.00	
KSR	1.02	12	eP	33	16.90	0.5
			S	33	29.50	
SWZ	1.24	255	eP	33	19.60	-0 7
			S	33	36.60	
SEK	1.68	150	eP	33	28.00	1.0
			S	33	49.50	
SLR	1.83	52	iPd	33	29.30	0.1
			S	33	52.30	
BLF	2.28	191	eP	33	36.00	0.4
			S	34	04.00	
FRS	3.11	202	eP	33	47.00	-0.2
			S	34	23.00	

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

MAY 20, 1993 13h 57m 07.45± 0.51s
24.336 S ± 5.1km 67.031 W ± 9.0km
DEPTH = 187.2 ± 6.4 km
4.3mb (3 obs.)
CHILE-ARGENTINA BORDER REGION (127)

HJA	1.86	53	iPd	57	45.50	1.6
FSA	1.97	152	iPd	57	46.60	1.6
			(S)	58	16.00	
YJA	2.57	33	iPd	57	52.50	0.2
			S	58	27.00	
CYA	4.24	165	ePd	58	14.00	1.6
			S	59	04.00	
RTPR	5.96	176	ePd	58	34.50	-0.2
RTRS	6.20	200	ePd	58	38.30	0.5
			(S)	58	49.00	
CCH	6.97	7	P	58	46.50	-1.8
RTLL	7.08	190	ePd	58	48.70	-0.8
			S	00	07.20	
RTCB	7.29	192	ePd	58	52.20	-0 2
			S	00	11.00	
TCA	7.30	163	iPc	58	51.90	-0.6
			S	00	12.50	
CFA	7.32	188	ePc	58	52.00	-0.7
			S	00	09.80	
CNCB	7 54	353	iPd	58	51.80	-4.4X
RTBS	7.60	196	e(P)d	58	55.90	-0.5
LPB	7.83	352	P	58	59.20	-0.7
ARE	8.88	331	eP	59	34.00	20.5X
			eS	00	43.00	
RFA	10.47	187	ePd	59	32.20	-1.8
			(S)	01	23.70	
PPD	14.64	84	eP	00	26.40	-0.6
			e	00	30.30	
VAO	18.43	90	eP	01	10.60	-0.7
			e	01	12.00	
RIFB	18.57	81	iPc	01	12.40	-0.5
			e	01	14.80	
LTX	63.93	325	eP	07	20.52	-2.2
KIC	67.88	72	P	07	47.00	-1.0
MSU	75.49	325	eP	08	33.27	0.4
ARUT	75.62	324	ePc	08	35.26	1.7
RSSD	76.09	333	eP	08	36.45	0.4
	0.8s		4.61nm			4.3mb
JAQ	78.17	355	eP	08	46.50	-0.5
ULM	78.53	342	eP	08	51.50	2.4X
LRM	81.09	330	eP	09	04.50	1.4
DPW	85.29	328	eP	09	25.01	0.9
FCC	85.78	346	eP	09	31.50	5.3X
BCAO	87.77	84	iPd	09	39.90	3.0X
	0.8s		7.00nm			4.6mb
YKA	94.43	340	eP	10	06.10	-0.5
	0.6s		1.30nm			4.3mb
WB2	131.31	207	ePKP	16	00.20	0.7
	0.5s		5.00nm			
WRA	131.31	207	PKP	16	01.00	1.5
	0.5s		2.50nm			
GBA	144.84	101	PKP	16	25.00	0.8

S.D. = 1.2 on 29 of 34 obs.

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* MAY 20, 1993 14h 41m 34.99± 0.82s
1.027 N ±13.7km 123.925 E ±15.8km
DEPTH = 296.2 ± 12.8 km
4.3mb (6 obs.)
MINAHASSA PENINSULA, SULAWESI (265)

MNI	1.00	66	eP	42	15.20	0.0
			eS	42	47.00	
CGP	7.42	6	iPd	43	21.80	-0.3
KHKI	12.48	221	ePd	44	26.10	1.5
			e	46	21.60	
MTN	15.53	153	eP	45	00.00	-0.8
WB2	23.21	154	iPc	46	16.80	-1.1
	0.5s		48.70nm			5.2mb
			iS	50	03.30	
ASPA	26.39	159	iPc	46	46.00	-0.9
	0.6s		7.80nm			4.3mb
			eS	50	55.50	
MRWA	31.02	194	eP	47	26.80	-0.8
	0.4s		3.00nm			4.2mb
BAL	32.20	192	eP	47	36.70	-1.1
MUN	33.63	192	eP	47	49.00	-1.0
STK	36.76	154	iPc	48	16.40	0.0
	0.4s		4.90nm			4.3mb
ARMA	40.91	142	iPc	48	51.50	0.8
	0.4s		6.00nm			4.2mb
BWA	42.09	149	iPd	49	01.90	1.8
CAN	43 09	150	iPd	49	08.90	0.7
TOO	43.28	155	iPc	49	10.90	1.2
	0.4s		11.00nm			4.5mb

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

? MAY 20, 1993 15h 25m 36.96± 6.16s
17.825 N ±51.8km 61.929 W ±15.4km
DEPTH = 27.7 ± 9.9 km
LEEWARD ISLANDS (92)
ML 3.3 (FDF). MD 3.2 (TRN).

CPB	0.21	152	eP	25	42.95	-0.1
			eS	25	48.44	
BPA	0.78	175	eP	25	51.70	-0.2
			eS	26	04.87	
NEV	0.92	222	eP	25	53.82	-0.1
			eS	26	08.12	
MGH	1.13	194	eP	25	57.00	0.0
			S	26	15.00	
PAG	1 80	172	eP	26	07.00	0.3
			S	26	32.00	
MGG	1.98	163	eP	26	09.00	-0.3

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

% MAY 20, 1993 16h 38m 15.37± 1.99s
38.812 N ±11.2km 26.599 E ±17.6km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
ML 3.2 (ISK).

IZM	0.66	128	iPg	38	28.50	-0.1
			iSg	38	38.50	
EZN	1.03	348	iPn	38	35.20	0.3
KGT	1.73	18	iPn	38	45.40	-0.2
DST	1.76	63	ePn	38	46.90	0.7
EDC	1.82	32	ePn	38	46.50	-0.4
BNT	1.85	33	ePn	38	46.90	-0.5
KCT	1.98	43	ePn	38	49.40	0.2

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

MAY 20, 1993 16h 57m 27.84± 0.43s
3.804 S ± 6.0km 135.351 E ± 9.9km
DEPTH = 33.0km (normol)
5.1mb (6 obs.) 4.4Msz (2 obs.)
IRIAN JAYA REGION, INDONESIA (196)

MTN	9.91	205	eP	59	50.00	-1.1
	0.3s	130.00nm				6.7mb X
			eS	01	36.00	
WB2	16.07	183	eP	01	08.10	-5.0X
	0.3s	11.10nm				4.5mb
			i	01	16.30	
			eS	04	01.40	
GUMO	19.69	28	eP	01	57.00	-0.5
PJG	19.69	28	eP	01	57.00	-0.5
ASPA	19.80	184	iPc	01	57.90	-0.7
	0.5s	108.60nm				5.4mb
Z	19s	1.60um				5.4Msz
			eS	05	30.30	
KKM	21.47	297	ePd	02	16.00	0.1
PGP	22.36	321	eP	02	25.00	0.3
OLP	24.20	160	eP	02	43.10	0.6
BAG	24.83	324	eP	02	48.00	-0.9
STK	28.54	169	eP	03	32.40	9.7X
	0.7s	2.90nm				4.1mb X
			eS	09	02.00	
BWA	32.80	160	eP	04	01.00	0.6
CAN	33.81	160	eP	04	08.90	-0.3
SSE	37.24	340	P	04	37.00	-1.3
Z	20s	0.80um				4.5Msz
			eS	10	26.00	
MAT	40.22	4	eP	05	03.00	-0.1
CHTO	42.31	303	eP	05	25.40	4.9X
KMI	42.77	314	Pc	05	25.00	0.6
	1.5s	50.00nm				5.0mb

		pP	05	36.60	42kmX	
BJI	47.05	340 eP	05	57.50	-0.7	
	1.4s	72.00nm			5.5mb	
	Z 20s	0.36um			4.3Msz	
GUN	57.10	307 P	07	13.40	-0.8	
	0.7s	15.00nm			5.1mb	
PKI	57.34	306 P	07	18.40	2.6	
KKN	57.53	306 P	07	17.00	0.0	
DMN	57.60	306 P	07	17.80	0.3	
GKN	58.14	306 P	07	20.40	-0.8	
YAK	65.78	357 eP	08	11.00	-0.5	
	1.8s	28.00nm			5.1mb	
MAIO	80.90	308 eP	09	42.00	1.3	
IMA	85.84	23 (P)	10	07.00	1.7	
CNCB	149.16	132 PKP	17	19.80	8.0X	
LPB	149.25	132 ePKP	17	23.00	11.2X	
CCH	150.12	135 ePKP	17	21.60	8.0X	
	S.D. = 1.0	on 22 of 28 obs.				

MAY 20, 1993 17h 21m 44.30± 0.44s
45.358 N ± 4.2km 25.489 E ± 4.6km
DEPTH = 10.0km (geophysicist)
ROMANIA (358)

MTUR	0.33	246 iPc	21	51.10	0.0	
MLR	0.35	67 iPd	21	51.50	0.0	
CVO	0.67	46 iPc	21	57.10	-0.5	
TNR	0.90	289 ePc	21	55.00	-6.6X	
VRI	1.01	59 ePd	22	04.00	0.6	
BUC	1.04	155 ePc	22	06.50	2.6	
BUC1	1.08	159 iPd	22	08.00	3.4X	
DRA	1.11	233 ePd	22	08.00	2.9X	
PTT	1.70	21 eP	22	17.00	2.9X	
CFR	1.89	94 eP	22	20.00	3.1X	
DEV	1.89	287 ePc	22	18.00	1.1	
BMR	2.69	330 ePd	22	29.00	0.6	
SSR	2.70	261 ePd	22	33.00	4.5X	
CEI	3.13	319 eP	22	44.00	9.5X	
DMK	3.90	154 ePn	22	45.00	-0.5	
SRS	4.46	199 ePn	22	54.04	0 6	
		iSn	24	18.00		
ALN	4 48	175 ePn	22	54.16	0.4	
		eSn	24	13.50		
SKO	4.48	222 ePn	22	56.50	2.7X	
		i(Sg)	24	11.00		
		Lg	24	24.00		
VAY	4 56	209 iPn	22	51.00	-3.9X	
KNT	4.60	205 ePn	22	55.20	-0.3	
		iSn	24	16.00		
CTT	4.73	152 ePn	22	55.80	-1.5	
SOH	4 80	200 ePn	22	57.68	-0.7	
		eSn	24	20.72		
BUD	4.95	298 ePn	23	04.50	4.1X	
OUR	5.14	193 iPn	23	01.96	-1.2	
SPC	5.24	319 eP	23	03.30	-1.3	
OHR	5.45	221 ePn	23	09.00	1.4	
EZN	5.56	173 ePn	23	09.00	-0.1	
PAIG	5.59	194 ePn	23	08.32	-1.2	
		eSn	24	45.32		
GEC2	8.76	298 P	23	53.40	-0.6	
		e	23	56.30		
		e	24	02.40		
		e	24	09.20		
		e	50	42.30		
		e	50	44.10		
KHC	8.94	299 eP	23	57.00	0.6	
		e	25	50.00		
		e	26	36.50		
	S.D. = 1.1	on 20 of 30 obs.				

? MAY 20, 1993 17h 31m 59.16± 2.19s
20.122 S ±37.8km 179.282 W ±31.8km
DEPTH = 563.4 ± 14.9 km
4.9mb (2 obs.)
FIJI ISLANDS REGION (181)

VUN	3.00	314 eP	33	15.80	0.0	
ASPA	43.44	256 iPd	39	15.30	0.7	
	0 6s	31.20nm			5.0mb X	
		eS	45	07.50		
WB2	43.45	262 eP	39	15.10	0.4	
	0 7s	31.10nm			4.9mb	
WRA	43.46	262 P	39	15.60	0.9	
	0 3s	13.40nm			4.9mb	
MUN	58.40	244 eP	41	02.30	-1 1	
MRWA	58.88	247 eP	41	05.20	-1.4	
MAT	69.20	324 eP	42	10.00	-1.4	
CHTO	88.98	290 eP	43	56.50	0.9	
NB2	138.46	352 PKP	50	09.80	-12.2X	
	0.8s	1.10nm				
HFS	138.97	350 ePKP	50	10.80	-12.1X	
	0.4s	0.90nm				
CLL	147.41	346 iPKPd	50	37.00	-0.6	
	0.8s	9.00nm				
BRG	147.58	344 ePKP	50	37.60	-0.3	
PRU	148.23	343 ePKP	50	39.30	0.4	
KHC	149.27	343 ePKP	50	42.00	1.4	
	S.D. = 1.1	on 12 of 14 obs.				

% MAY 20, 1993 17h 48m 34.42± 2.08s
31.283 S ±18.7km 68.537 W ±13.2km
DEPTH = 102.1 ± 20.8 km
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.07	129 iPc	48	49.00	-0.1	
		S	49	01.50		
RTCB	0.30	228 iPd	48	49.50	-0.1	
		S	49	02.00		
CFA	0.41	142 iPc	48	50.20	0.1	
		S	49	02.00		
RTBS	0.87	244 e(P)d	48	53.90	0.0	
RTPR	2.00	61 e(P)c	49	07.80	0.3	
MRA	2.66	116 ePc	49	16.60	0.3	
TCA	3.38	92 iPc	49	25.70	-0.5	
		S	50	05.00		
	S.D. = 0.4	on 7 of 7 obs.				

? MAY 20, 1993 18h 46m 36.90± 1.62s
50.304 N ±24.3km 19.203 E ± 8.7km
DEPTH = 10.0km (geophysicist)
POLAND (548)
ML 2.6 (WAR).

OJC	0.39	102 ePg	46	45.10	0.2	
		eSg	46	55.30		
SPC	1.30	148 ePn	47	00.90	-0.3	
		i(Sn)	47	21.20		
PRU	3.02	266 ePn	47	24.50	-1.0	
		ePg	47	29.00		
		eSg	47	59.00		
BRG	3.40	282 iPg	47	33.20	2.2X	
		iSg	48	13.40		
KHC	3.83	254 ePn	47	38.40	1.1	
		e	47	43.00		
		eSn	48	13.00		
		Sg	48	27.50		
	S.D. = 1.6	on 4 of 5 obs.				

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* MAY 20, 1993 18h 48m 36.75± 0.61s
51.392 N ±13.9km 178.626 W ± 6.8km
DEPTH = 33.0km (normal)
4.1mb (12 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS. (7)

ADK	1.31	67 ePd	48	59.62	0.8	
SVW	15.97	44 eP	52	24.70	4.3X	
KDC	16.37	57 (P)	52	26.64	1.4	
TTA	16.74	38 eP	52	35.00	5.0X	
SLKM	18.20	49 eP	52	48.09	-0.1	
PMS	18.73	47 eP	52	56.30	1.6	
IMA	19.38	31 eP	53	01.88	-0.6	
	0.9s	3.44nm			3.6mb	
KLU	20.49	48 eP	53	13.71	-0.4	
FBA	20.87	38 (P)	53	21.68	3.8X	
	0.5s	3.09nm			4.0mb	
BALM	22.08	50 eP	53	32.39	2.1	
MBC	33.55	22 eP	55	15.50	0.5	
YKA	35.14	46 eP	55	27.10	-1.7	
	0.6s	0.80nm			3.8mb	
NEW	38.78	70 eP	55	59.79	0.2	
	0.9s	6.14nm			4.4mb	
HVU	44.84	75 eP	56	49.17	-0.3	
BW06	46.20	72 eP	56	59.65	-0.6	
	0.6s	4.94nm			4.6mb	
SRU	47.82	77 eP	57	12.52	-0.6	
RSSD	48.65	68 (P)	57	19.00	-0.5	
	0.7s	1.90nm			4.2mb	
PV09	49.05	77 eP	57	21.89	-0.8	
GOL	50.57	73 eP	57	33.92	-0.4	
	0.6s	3.17nm			4.5mb	
KAF	65.12	347 iP	59	14.60	-1.3	
	0.4s	2.40nm			4.6mb	
NUR	66.89	348 iP	59	25.60	-1.6	
	0.4s	1.00nm			4.3mb	
NB2	67.64	355 P	59	31.20	-0.8	
	0.6s	0.60nm			3.9mb	
HFS	68.38	353 eP	59	35.10	-1.4	
	0.4s	0.70nm			4.1mb	
GUN	71.95	292 P	00	00.00	0.8	
KKN	72.39	292 P	00	02.40	0.8	
	0.6s	34.00nm			5.5mb X	
PKI	72.48	292 P	00	02.80	0.5	
GKN	72.60	293 P	00	03.60	0.8	
	0.7s	31.00nm			5.4mb X	
DMN	72.63	292 P	00	04.20	1.1	
KBA	81.37	352 iPc	00	51.80	0.5	
WRA	82.10	224 P	00	55.00	-0.1	
	0.7s	0.30nm			3.4mb	
	S.D. = 1.0	on 27 of 30 obs.				

MAY 20, 1993 18h 57m 55.25± 0.64s
37.525 N ± 7.0km 137.529 E ± 6.8km
DEPTH = 33.0km (normal)
4.5mb (3 obs.)
NEAR WEST COAST OF HONSHU, JAPAN(226)

MTMJ	0.96	167 P	58	12.00	-0.6	
MAT	1.12	151 iPc	58	14.80	0.1	
		iS	58	30.90		
NIIJ	1.21	103 P	58	15.80	-0.1	
		S	58	33.70		
CHJJ	1.89	141 P	58	26.80	1.1	
		S	58	53.60		
IIDJ	2.06	171 P	58	29.10	0.8	
YAMJ	2.09	71 P	58	28.20	-0.4	
TSRJ	2.34	213 P	58	31.50	-0.7	
KAKJ	2.50	121 P	58	37.30	2.9X	
OFUJ	3.61	63 eP	58	50.40	0.2	
		eS	59	44.90		
WKYJ	3.65	206 eP	58	52.40	1.5	
AOMJ	3.75	35 eP	58	52.20	0.0	
YONJ	4.03	236 eP	58	55.30	-0.8	
LZH	26.93	277 eP	03	37.00	1.5	
	1.4s	19.00nm			4.5mb	
WB2	57.24	184 eP	07	40.20	-1.5	
	0.6s	3.10nm			4.5mb	
WRA	57.24	184 P	07	40.70	-1.0	
	0.6s	1.20nm			4.1mb	
	S.D. = 1.0	on 14 of 15 obs.				

MAY 20, 1993 19h 58m 53.13± 0.40s
27.110 N ± 7.3km 54.564 E ± 3.7km
DEPTH = 33.0km (normal)
4.7mb (36 obs.) 5.1Msz (2 obs.)
SOUTHERN IRAN (353)

DHR	4.04	260 eP	59	59.00	4.8X	
RYD	7.55	253 eP	00	44.00	0.3	
MJMA	8.40	264 eP	00	54.00	-1.6	
OASM	9.93	267 eP	01	14.67	-2.0	
MAIO	10.08	23 iPnd	01	19.40	0.7	
		eSn	02	52.00		
AFIF	10.70	256 eP	01	30.67	3.4X	
OUE	11.30	71 eP	01	34.10	-1.5	
TAB	12.94	330 eP	02	05.00	7.6X	
GRS	14.13	333 eP	02	14.00	0.8	
MTA	16.62	334 eP	02	49.00	4.0X	
MAK	16.90	342 eP	02	49.00	0.4	
		e	06	03.00		
HRI	17.38	295 eP	02	54.80	-0.1	
MML	17.45	292 eP	02	57.60	2.0	
BHL	17.63	297 P	03	02.00	4.0X	
		S	12	32.00		
RMN	17.79	286 eP	03	01.70	1.7	
PYA	19.27	334 eP	03	19.00	1.2	
KIV	19.35	333 iPc	03	19.20	0.4	
	Z 20s	0.10um				
		e	06	58.20		
NDI	20.08	80 eP	03	26.00	-0.7	
SOC	20.36	328 eP	03	29.00	-0.4	
	1.4s	77.00nm			4.9mb	
		eS	07	14.00		
KAS	22.24	315 eP	03	52.50	3.9X	
ANN	22.49	327 eP	03	54.00	3.1X	
FRU	22.63	41 iP	03	52.00	-0.4	
	2.0s	40.00nm			4.5mb	
		e	04	37.00		
		e	08	38.00		
HYB	24.17	109 eP	04	10.00	2.5	
TLG	24.53	43 eP	04	10.00	-0.9	
GKN	26.65	81 P	04	35.00	4.0X	

20d 20h

DMN	27.10	82	P	04	39.00	3.8X			0.6s	7.05nm		4.7mb		PTRM	2.08	259	P	14	52.50	1.4
KKN	27.23	81	P	04	40.40	4.0X		MAF	44 99	309	iPc	07	06.70	-0.4		PSRM	2.10	264	P	14	52.20	0.8
PKI	27.37	82	P	04	38.60	0.8			1.3s	16.25nm		4.8mb				PCH	2.14	246	ePn	14	51.30	-0.7
GUN	27.75	81	P	04	43.40	2.1		CAF	45.21	307	iPc	07	08.80	-0.1		PARM	2.14	275	P	14	53.13	1.2
ARU	29.41	5	eP	04	55.00	-0.5			0.6s	6.60nm		4.7mb				CTM	2.14	266	P	14	52.72	0.7
SKO	30.83	307	iP	05	08.00	-0.2		TCF	45.24	309	iPc	07	08.70	-0.4		GHC	2.17	264	P	14	52.62	0.3
OHR	31.04	305	iP	05	10.00	-0.1			0.8s	9.65nm		4.8mb				PMCM	2.20	261	P	14	51.20	-1.5
MGR	34.71	302	P	05	42.40	0.4		RJF	45.63	308	iPc	07	12.20	0.0		PHAM	2.20	264	eP	14	52.63	-0.2
ELT	35.11	33	iPc	05	44.50	-0.7			1.0s	17.80nm		4.9mb							eS	15	25.04	
	1.5s	21.00nm			4.8mb			LSF	45.71	309	eP	07	12.00	-0.8		PCRM	2.21	271	P	14	53.72	0.8
		eS		11	16.00			LPO	45.81	307	eP	07	13.60	0.0		PEC	2.24	168	iPd	14	52.27	-1.1
DUI	35.80	304	P	05	53.00	1.6		LFF	46.15	307	iPc	07	16.40	0.2		WKR	2.30	264	P	14	54.93	0.8
MNS	37.24	305	P	06	03.90	0.5			0.7s	10.15nm		4.9mb				PSMM	2.34	270	P	14	53.61	-1.3
ARV	37.27	307	P	06	07.80	4.2X		NRI	46.61	16	eP	07	20.00	0.5		PRCM	2.37	275	P	14	56.15	1.0
ASS	37.38	306	P	06	06.30	1.6			1.4s	12.00nm		4.7mb				PMGM	2.39	255	P	14	56.34	0.9
KSP	37.42	320	eP	06	04.40	-0.4				e		07	31.00			PRI	2.40	272	iP	14	56.44	0.7
RBL	37.56	312	P	06	08.70	2.6		LDF	47.07	312	eP	07	22.40	-1.1					eS	15	26.14	
KBA	37.90	313	iPc	06	08.90	-0.1		FLN	47.33	312	eP	07	24.40	-1.1		PTV	2.45	271	P	14	57.00	0.7
	0.8s	5.00nm			4.4mb			LPF	47.63	311	eP	07	26.00	-1.8		MOP	2.51	274	P	14	58.25	1.1
		i		06	11.70			CIT	50.22	44	eP	07	47.00	-0.9		HVC	2.54	277	P	14	59.11	1.5
SFI	38.13	307	P	06	12.60	1.8		BJI	51.99	59	eP	08	00.00	-1.4		PSAM	2.58	269	P	14	59.72	1.5
GEC2	38.22	316	P	06	11.00	-0.7			1.2s	16.00nm		4.9mb				PANM	2.62	264	P	15	00.71	2.0
	0.5s	0 43nm			3.6mb	X		Z	16s	0.29um		4.4MszX				LLA	2.67	282	iP	14	59.82	0.4
KHC	38.39	316	P	06	13.00	0.0		YAK	59.51	32	eP	08	51.00	-4.1X		PLM	2.82	166	iPnd	15	00.52	-1.3
		e		06	21.00				1.5s	22.00nm		5.1mb				CMB	2.89	313	eP	15	03.98	1.3
CTI	38.74	311	P	06	16.10	0.0		TIK	59.58	21	eP	08	54.00	-1.5					eS	15	41.88	
BRG	38 80	319	eP	06	18.40	2.1			1.6s	13.00nm		4.8mb				KVN	2.97	354	ePn	15	03.34	-0.5
WTTA	39.07	313	iPc	06	18.30	-0.6				e		09	41.00			PRS	2.98	276	iP	15	04.23	0.4
	0 8s	13.30nm			4.8mb			KIC	59.86	261	P	08	57.50	-0.7		SAO	3.09	284	eP	15	03.29	-2.1
NUR	39.09	337	eP	06	21.00	2.4		TIC	59.97	262	P	08	58.20	-0.9		MRFM	3.11	314	P	15	09.18	3.5
WATA	39.12	313	iPc	06	18.40	-0.9		LIC	60.17	261	P	08	59.60	-0.8		ARN	3.32	293	ePnc	15	07.85	-0.9
SOTA	39.34	312	iPc	06	20.40	-0.6		MBC	76.82	359	eP	10	43.00	0.3					S	15	56.27	
	0.5s	14.10nm			5.0mb				1.0s	4.00nm		4.4mb				MHC	3.40	293	ePc	15	08.85	-1.1
MOTA	39.44	313	iPc	06	20.90	-1.0		ILT	77.42	18	eP	10	49.00	2.8					eS	16	00.64	
	0.8s	13.60nm			4.8mb			INK	84.68	3	eP	11	30.50	6.1X		GCC	3.58	286	eP	15	10.80	-1.5
CLL	39.51	319	eP	06	24.00	1.8		WRA	90.28	112	P	11	59.20	6.9X		ARUT	3.81	62	ePn	15	14.26	-1.6
OSS	39.91	311	ePc	06	26.10	0.2			0.7s	0.90nm		4.2mb							Pg	15	25.25	
PGF	39 95	305	iPc	06	26.00	-0.2		WB2	90.29	112	eP	11	52.20	-0.1					S	16	18.10	
	1.3s	20.95nm			4.7mb				0.9s	2.00nm		4.4mb				GLA	3.85	141	ePn	15	12.12	-4.2
BOB	39.99	308	P	06	27.10	0.7		YKA	90.29	355	eP	11	51.50	-0.2		BKS	4.04	297	eP	15	26.69	7.8
GRF	40.03	316	eP	06	26.70	0.1			0.7s	1.40nm		4.4mb							eS	16	16.94	
Z	22s	0.10um			3.6Msz				S.D. = 1.1	on	92	of	106	obs.		NTYM	4.57	302	ePn	15	27.61	1.2
VAI	40.66	310	P	06	32.40	0.6		----------											Lg	16	42 80	
LLS	40.72	311	ePc	06	31.90	-0.6		& MAY 20, 1993 20h 14m 14 50s								ORV	4.58	320	eP	15	30.43	3.9
BCAO	41.10	243	ePc	06	38.40	2.6		36.095 N					117.702 W			MSU	5.02	60	ePn	15	32.11	-1.0
	0.6s	6.00nm			4.5mb			DEPTH = 0.8km											Pg	15	48.60	
		ic		07	05.10			4.3mb (4 obs.)											Lg	16	47.92	
MMK	41.25	310	ePc	06	36.20	-0.8		CALIFORNIA-NEVADA BORDER REGION (40)								MIN	5.24	325	eP	15	42.39	6.3
SLE	41.25	313	ePc	06	36.10	-0.6		<PAS-P>. ML 4.6 (PAS), 4.8								DUG	5.62	42	(Pn)	15	41.25	-0.2
ZLA	41.26	312	ePc	06	36.60	-0.2		(BRk). Felt (III) at Inyokern,											Pg	15	59.89	
SBF	41.27	307	iPc	06	36.90	0.0		California. Also felt at								WDC	5.87	321	ePc	15	58.39	13.6
	0.9s	23.75nm			4.9mb			Wofford Heights and in the								WDC	5.87	321	(P)	15	47.39	2.6
UPP	41.33	333	iP	06	36.00	-1.1		Ridgecrest area, California.								LBFM	6.18	329	(Pn)	15	50.36	1.0
DIX	41.64	310	ePc	06	39.50	-0.6										SRU	6.44	60	ePn	15	52.02	-1.1
LPG	41.99	309	iPkPc	06	42.30	-0.8		RCWM	0.15	163	P	14	17.68	0.2					Pg	16	16.60	
	0.9s	17.05nm			4.8mb			NMC	0.30	213	P	14	20.48	0.0					Lg	17	34.92	
LPL	42.01	309	eP	06	42.50	-0.7		WCHM	0.37	235	P	14	21.65	-0.2		DAU	6.66	48	(Pn)	15	56.38	0.2
	0.6s	79.50nm			5.6mb			ISA	0.76	236	eP	14	28.61	-1.1					Lg	17	48.31	
BSF	42.39	312	iPc	06	45.20	-0.9					S	14	39.30			FHC	6.81	316	(Pn)	15	57.45	-0.6
	1.0s	11.80nm			4.6mb			WASM	0.78	243	P	14	29.34	-0.7		HVU	6.85	33	ePn	15	59.53	0.7
MOY	42.50	42	eP	06	47.60	0.8		WJPM	0.93	223	P	14	32.04	-1.0					Lg	17	51.93	
LZH	42.54	65	eP	06	46.50	-1.1		SNDC	1.07	207	P	14	34.45	-1.1		TUC	6.86	121	P	15	55.06	-3.8
	1.2s	20.00nm			4.7mb			GSC	1.08	137	iPd	14	34.49	-1.2			0.8s	1.00nm			4.0mb	
		sP		07	00.00			BMTC	1.20	218	P	14	36.64	-1.2		BW06	9.17	41	(Pn)	16	31.32	0.1
KMI	43.10	81	eP	06	52.00	-0.3		BHPR	1.36	333	P	14	39.43	-1.2		ALQ	9.24	94	(Pn)	16	28.89	-3.2
	2.0s	70.00nm			5.1mb			TPNV	1.45	54	eP	14	40.98	-1.0			0.8s	2.57nm			4.7mb	
		pP		07	12.50	85kmX		CWCR	1.48	341	P	14	41.45	-1.1		VGB	9.69	347	ePn	16	37.45	-0.8
HFS	43.13	331	eP	06	50.90	-0.9		PLEC	1.58	225	P	14	45.74	1.9		LRM	10.49	21	eP	16	52.20	2.8
	0.7s	7.00nm			4.5mb			BCKR	1.69	342	P	14	45.56	0.1		LON	11.08	345	(Pn)	16	56.88	-0.4
Z	19s	87.00um			6.7Msz			CLKR	1.74	329	P	14	46.50	0.1		RSSD	13.17	48	ePn	17	24.28	-1.2
		LR		19	26.00			ABL	1.75	225	ePn	14	45.14	-1.3		LTX	13.60	116	(Pn)	17	29.87	-1.3
ZAK	43.56	44	eP	06	55.00	-0.4					ePg	14	47.97			MEO	15.64	89	iPd	18	01.90	4.1
	1.4s	7.00nm			4.2mb						eS	15	10.49			MIAR	19.74	87	ePc	18	47.34	-1.4
ENN	43.60	316	eP	06	56.50	0.8		MCSM	1.83	329	P	14	48.31	0.7			1.2s	22.74nm			4.4mb	
	0.8s	6.00nm			4.4mb			FRI	1.85	300	iP	14	47.31	-0.3		FRB	40.46	31	eP	21	57.00	1.1
SMF	44.17	310	iPc	06	59.70	-0.7		CRGC	1.85	243	P	14	48.40	0.6			1.0s	7.00nm			4.3mb	
	0.9s	15.05nm			4.8mb			MEMM	1.86	328	ePnd	14	48.15	0.5			84 obs. associated					
LOR	44.24	311	eP	07	00.20	-0.9		SSK	1.88	180	ePnd	14	47.26	-1.0		----------						
DOU	44.27	315	P	07	02.20	1.0					ePg	14	50.08			MAY 20, 1993 20h 15m 32.08± 1.09s						
SSF	44.45	311	iPc	07	02.10	-0.6					eS	15	12.06			64.838 N ± 6.3km 154.856 W ±10.1km						
	0.6s	5.05nm			4.5mb			BONR	1.92	346	ePn	14	48.55	-0.4		DEPTH = 10.0km (geophysicist)						
AVF	44.52	310	eP	07	02.40	-0.9		PHBM	1.93	275	P	14	50.29	1.5		CENTRAL ALASKA					(1)	
	0.9s	5.55nm			4.4mb			PKEM	1.95	270	ePn	14	49.38	0.3		ML 2.7 (AEIC).						
SNF	44.56	316	P	07	05.20	1.7		YEG	1.95	251	P	14	50.09	0.9								
NB2	44.65	332	P	07	02.90	-1.3		TNP	2.02	11	ePn	14	49.27	-1.1		IMA	1.33	21	eP	15	56.18	-0.5
	0.7s	2.10nm			4.1mb			PWMM	2.06	280	P	14	52.13	1.5					eS	16	13.71	
BGF	44.84	310	iPc	07	05.20	-0.6		PMRM	2.08	262	P	14	52.06	1.0		MLY	1.76	82	eP	16	02.70	-0.2

		S	16 24.52			
TTA	1.98	195 eP	16 07.02	0.9		
		eS	16 33.63			
TRF	2.44	123 eP	16 12.37	-0.4		
		eS	16 44.38			
NEA	2.50	93 eP	16 13.77	0.4		
		S	16 45.29			
FBA	3.01	86 ePn	16 21.10	0.4		
		eS	17 00.56			
GLM	3.19	84 eP	16 24.20	1.0		
		S	17 03.08			
SKT	3.24	151 eP	16 22.94	-1.0		
HDA	3.43	94 eP	16 26.24	-0.4		
		S	17 08.13			
CGLM	3.77	159 eP	16 30.79	-0.8		
SML	4.23	133 eP	16 38.17	0.2		
PMS	4.34	144 P	16 40.00	0.4		

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

? MAY 20, 1993 20h 32m 20.33± 0.94s
19.754 S ±37.3km 177.627 W ±25.2km
DEPTH = 33.0km (normal)
5.0mb (5 obs.) 4.3Msz (1 obs.)
FIJI ISLANDS REGION (181)

STK	38.43	243 eP	39 35.00	-5.8X		
	1.1s	1.40nm		3.7mb X		
ASPA	45.04	256 iPc	40 33.50	-1.5		
	1.1s	18.90nm		4.9mb		
Z	21s	0.40um		4.3Msz		
WB2	45.04	261 iPc	40 35.60	0.5		
	0.5s	14.40nm		5.1mb		
WRA	45.05	261 P	40 36.00	0.8		
	1.2s	2.00nm		3.9mb		
SLKM	83 00	13 eP	44 43.74	0.5		
BALM	85.37	16 eP	44 54.83	-0.5		
BJI	85.61	315 eP	45 08.50	11.7X		
	1.5s	29.00nm				
FBA	87.44	12 eP	45 05.00	-0.2		
	1.4s	11.36nm		4.9mb		
IMA	87.45	10 (P)	45 05.22	-0.2		
KMI	89 32	297 P	45 20.50	5 1X		
	1 5s	50.00nm		5.6mb		
CHTO	90 32	290 eP	45 24.60	4.8X		
KSP	147.08	344 ePKPd	51 58.90	-0.2		
SPC	147.32	338 ePKP	52 00.90	1.1		
HPI	147 40	301 ePKP	52 00.30	0.0		
CLL	147.41	348 iPKPd	51 58.90	-0.7		
	1.2s	14.00nm				
BRG	147.62	346 ePKP	51 59.20	-0.8		
		e	52 16.00			
MML	147.89	300 ePKP	52 01.20	0 2		
PRU	148.31	345 ePKP	52 00.50	-0.6		
		e	52 09.90			
MBH	148.94	295 ePKP	52 02.90	0.1		
SRO	149.16	339 ePKP	52 14.50	12.0X		
ZST	149.22	341 ePKP	52 14.60	12.0X		
KHC	149.34	346 ePKP	52 03.50	0.7		
	1.3s	7.20nm				
		e	52 15.50			
		e	52 23.90			
GEC2	149.58	345 PKP	52 03.90	0.7		
	1.1s	1.41nm				
BCAO	158.09	228 ePKPd	52 34.20	18.3X		
	0.7s	3.00nm				

S.D. = 0.7 on 17 of 24 obs.

& MAY 20, 1993 20h 34m 46.45s
36.098 N 117.702 W
DEPTH = 0.9km
CALIFORNIA-NEVADA BORDER REGION (40)
<PAS-P>, ML 3.4 (PAS), 3.7 (BRK), 3.2 (GS). Multiple event.

NMC	0.30	213 P	34 52.50	0.0		
WORM	0.59	228 P	34 57.72	-0.6		
ISA	0.76	236 eP	35 00.97	-0.7		
		eS	35 10.42			
WASM	0.78	243 P	35 01.39	-0.7		
WJPM	0.93	223 P	35 04.07	-1.0		
SNDC	1.07	207 P	35 06.53	-1.0		
GSC	1.08	137 iPd	35 06.52	-1.1		
BHPR	1.36	332 P	35 13.88	1.4		
TPNV	1.45	54 eP	35 12.96	-0.9		
CWCR	1.48	341 P	35 13.89	-0.5		
CASR	1.62	335 P	35 17.65	1.1		
CLKR	1.74	329 P	35 19.54	1.3		
ABL	1.76	225 ePn	35 18.30	-0.2		
MCSM	1.83	329 P	35 21.56	2.0		
FRI	1.85	299 eP	35 20.93	1.4		
		eS	35 43.53			
MEMM	1.85	328 ePn	35 20.45	0.9		
CRGC	1.85	243 P	35 20.72	0.9		
SSK	1.88	180 ePn	35 19.28	-1.0		
BONR	1.91	346 ePn	35 21.21	0.4		
PKEM	1.95	270 ePn	35 22.25	1.2		
		eS	35 47.87			
YEG	1.95	251 P	35 22.35	1.2		
TNP	2.02	11 eP	35 23.58	1.4		
PMRM	2.08	262 P	35 24.00	1.0		
PTRM	2.09	258 P	35 24.68	1.6		
PSRM	2.10	264 P	35 25.00	1.7		
PARM	2.14	275 P	35 25.20	1.4		
BCH	2.14	246 ePn	35 24.00	0.0		
CTM	2.14	266 P	35 25.43	1.5		
PMCM	2.20	261 P	35 26.79	2.1		
PHAM	2.20	264 ePn	35 24.17	-0.6		
		eS	35 58.74			
PEC	2.25	168 ePn	35 23.58	-1.8		
		eS	35 58.67			
PRCM	2.37	275 P	35 28.13	1.0		
PMGM	2.39	255 P	35 28.34	0.9		
PRI	2.40	272 eP	35 27.11	-0.6		
		eS	36 01.48			
BMSM	2.56	284 P	35 31.50	1.7		
PANM	2.62	264 P	35 32.52	1.8		
BRMM	2.62	287 P	35 33.20	2.5		
LLA	2.67	282 eP	35 30.66	-0.7		
PLM	2.82	166 ePn	35 32.43	-1.4		
		ePg	35 38.21			
EKH	2.86	282 P	35 37.32	3.2		
CMB	2.89	313 ePc	35 36.63	2.1		
		eS	36 14.68			
KVN	2.96	354 ePn	35 35.69	-0.1		
		eS	36 21.54			
PRS	2.98	276 eP	35 36.40	0.7		
SAO	3.09	284 ePn	35 38.28	0.9		
ARN	3.32	293 eP	35 41.39	0.7		
		eS	36 29.42			
MHC	3.40	293 eP	35 48.56	6.7		
		eS	36 33.24			
CSTL	3.41	298 P	35 49.68	7.8		
ARUT	3.81	62 (Pn)	35 47.57	-0.2		
		ePg	35 57.27			
GLA	3.85	141 ePn	35 44.77	-3.5		
		eS	36 49.05			
ORV	4.58	320 (Pn)	36 00.59	2.1		
MSU	5.02	60 (Pn)	36 05.59	0.6		
		ePg	36 19.48			

51 obs. associoted

MAY 20, 1993 20h 52m 13.58± 0.50s
40.339 N ± 7.6km 25.804 E ± 4.2km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
ML 3.1 (ISK).

ALN	0.59	18 iPg	52 25.70	0.3		
		eSg	52 33.86			
EZN	0.65	142 iPg	52 26.80	0.2		
		iSg	52 36.30			
KGT	1.15	84 iPn	52 33.80	-1.3		
OUR	1.39	270 iPb	52 38.29	-0.7		
		eSb	53 00.38			
EDC	1.57	89 iPn	52 42.50	0.9		
BNT	1.62	89 ePn	52 41.80	-0.4		
PAIG	1.68	257 ePb	52 43.50	0.4		
		eSb	53 07.34			
SRS	1.85	296 ePn	52 45.78	0.1		
		eSn	53 12.30			
DST	2.29	108 ePn	52 52.00	0.0		
KNT	2.36	291 iPn	52 52.53	-0.4		
		eSn	53 28.22			

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

& MAY 20, 1993 21h 14m 19.79s
36.085 N 117.708 W
DEPTH = 0.8km
CALIFORNIA-NEVADA BORDER REGION (40)
<PAS-P> ML 3.5 (PAS), 3.8 (BRK).

NMC	0.29	214 P	14 25.59	0.0		
WCHM	0.36	236 P	14 26.72	-0.3		
WSHM	0.48	159 P	14 29.51	0.0		
WORM	0.58	228 P	14 30.84	-0.6		
ISA	0.75	236 eP	14 33.75	-1.0		
WASM	0.77	244 P	14 33.68	-1.5		
GSC	1.07	136 iPd	14 39.68	-1.2		
BHPR	1.36	333 P	14 45.09	-0.9		
TPNV	1.46	53 eP	14 46.42	-1.0		
		eS	15 06.55			
CWCR	1.49	341 P	14 47.56	-0.4		
ORC	1.72	334 P	14 52.45	1.1		
ABL	1.74	226 ePc	14 51.50	-0.1		
CLKR	1.75	330 P	14 52.50	0.7		
MCSM	1.84	329 P	14 54.20	1.2		
CRGC	1.84	243 P	14 53.86	0.9		
FRI	1.85	300 iP	14 52.62	-0.3		
		eS	15 16.87			
SSK	1.87	180 (P)	14 52.61	-0.8		
BONR	1.93	346 ePn	14 53.97	-0.4		
PHBM	1.93	276 P	14 55.62	1.6		
YEG	1.94	251 P	14 55.38	1.0		
PKEM	1.95	270 eP	14 54.61	0.3		
TNP	2.03	11 ePn	14 54.79	-1.0		
PMRM	2.07	262 P	14 55.50	-0.7		
PTRM	2.08	259 P	14 57.12	0.8		
PKM	2.09	236 P	14 57.62	1.0		
PSRM	2.10	265 P	14 58.40	1.8		
BCH	2.13	246 ePn	14 55.74	-1.4		
CTM	2.14	267 P	14 58.61	1.4		
PARM	2.14	275 P	14 58.45	1.3		
PMCM	2.19	261 P	14 58.54	0.6		
PHAM	2.20	264 eP	14 57.02	-1.0		
PCRM	2.21	271 P	14 59.16	1.0		
PEC	2.23	168 iP	14 57.42	-1.1		
SCCM	2.31	241 P	15 01.53	1.8		
PRCM	2.36	275 P	15 01.97	1.5		
PMGM	2.38	255 P	15 01.53	0.9		
PRI	2.39	272 iP	15 01.60	0.6		
PTV	2.44	271 P	15 02.81	1.3		
HVC	2.53	277 P	15 04.11	1.3		
PANM	2.61	264 P	15 04.82	0.9		
BTW	2.62	276 P	15 06.15	2.2		
BRMM	2.62	288 P	15 05.90	1.9		
LLA	2.67	282 eP	15 05.47	0.8		
CMB	2.89	313 ePc	15 10.36	2.4		
		eS	15 48.11			
BHRM	2.94	284 P	15 11.39	2.8		
PRS	2.97	276 eP	15 08.29	-0.7		
MCUM	2.99	310 P	15 12.55	3.2		
SAO	3.09	284 ePn	15 09.39	-1.3		
ARN	3.32	293 ePn	15 13.05	-1.0		
MHC	3.40	293 eP	15 14.14	-1.1		
CSTL	3.41	298 P	15 22.98	7.7		
JBZM	3.41	287 P	15 12.94	-2.4		
JHLM	3.47	288 P	15 17.20	1.0		
JRGM	3.56	287 P	15 24.97	7.7		
ARUT	3.82	62 (Pn)	15 20.01	-1.2		
GLA	3.85	141 ePn	15 18.54	-3.0		
ORV	4.58	320 (P)	15 33.18	1.3		
MSU	5.03	60 ePn	15 37.01	-1.5		
DUG	5.63	42 (P)	15 50.58	3.7		
SRU	6.45	60 (Pn)	15 58.09	-0.5		

60 obs. associoted

? MAY 20, 1993 21h 15m 20.00± 1.57s
43.257 N ±15.6km 20.881 E ± 7.2km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 2.6 (TTG).

IVA	0.82	242 iPgc	15 34.56	-1.3		
		iSg	15 43.86			
PVY	0.94	226 iPgd	15 37.09	-0.9		
		iSg	15 48.73			
PLE	1.09	274 iPgd	15 39.67	-0.9		
		iSg	15 53.17			
SKO	1.35	162 iPn	15 45.00	0.2		
		i	15 45.50			
		iSn	16 02.30			
		iSg	16 03.60			
		i	16 11.30			
NKY	1.45	253 iPgd	15 46.08	-0.3		
		iSg	16 04.83			
TTG	1.45	236 iPgc	15 46.21	0.0		
		iSg	16 05.18			
BRY	1.75	259 iPgc	15 51.35	0.7		
		iSg	16 14.64			
BDV	1.80	238 iPnc	15 52.71	1.4		

20d 21h

		iSn	16	16.49		
HCY	1.93	246 iPnc	15	54.59	1.4	
		iSn	16	19.56		
OHR	2.14	182 ePn	15	56.70	0.3	
VAY	2.30	146 ePn	15	58.60	0.0	
GRG	2.56	153 eP	16	02.17	-0.1	
		eS	16	32.82		
KNT	2.57	144 eP	16	02.54	0.1	
		eS	16	44.46		
SRS	2.94	136 eP	16	15.42	7.8X	
		iS	16	56.62		
OUR	3.73	141 iP	16	18.18	-0.6	

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

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* MAY 20, 1993 21h 20m 55.98± 2.57s
43.217 N ±16.8km 20.626 E ±15.0km
DEPTH = 5.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 2.6 (TTG).

IVA	0.64	237 iPgd	21	08.17	-0.5	
		iSg	21	17.44		
PLE	0.91	278 iPgd	21	13.28	-0.6	
		iSg	21	26.72		
NKY	1.26	252 iPgd	21	19.82	-0.1	
		iSg	21	38.47		
TTG	1.28	232 iPgc	21	19.82	-0.3	
		iSg	21	38.82		
SKO	1.38	154 ePn	21	15.00	-6.9X	
		i	21	19.00		
		iSn	21	35.70		
		iSg	21	37.20		
BRY	1.56	259 iPgd	21	24.59	0.1	
		iSg	21	48.38		
BDV	1.62	235 iPgd	21	26.12	0.8	
		iSg	21	50.09		
HCY	1.74	245 iPnd	21	28.09	1.0	
		iSn	21	52.96		
OHR	2.11	176 ePn	21	32.00	-0.4	
VAY	2.38	142 ePn	21	31.60	-4.7X	

S.D = 0.7 on 8 of 10 obs.

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* MAY 20, 1993 22h 43m 33.00± 0.96s
72.186 N ±11.8km 0.362 E ±13.5km
DEPTH = 10.0km (geophysicist)
3.8mb (1 obs.)
NORWEGIAN SEA (642)

LOF	6.05	126 eP	45	06.06	1.5	
		eS	46	11.00		
DAG	6 86	321 eP	45	16.00	0.1	
ARA0	8 64	96 Pn	45	40.41	-0.4	
		Sn	47	10.53		
MOL	10.04	161 eP	45	58.51	-1.6	
NB2	11.96	154 P	46	26.50	0.1	
	0.8s	3.00nm			4.6mb X	
NRA0	12.30	153 Pn	46	32.17	1.3	
HFS	13.19	150 eP	46	42.70	0.0	
	0.9s	10.20nm			5.0mb X	
KAF	14.10	122 iP	46	53.60	-1.1	
	0.8s	4.10nm			4.2mb X	
NUR	15.06	128 eP	47	07.10	-0.1	
CLL	21.69	158 e(P)	48	30.00	4.6X	
BRG	22.23	157 e(P)	48	34.00	3.2X	
GEC2	24.20	158 P	48	55.20	5.0X	
	0.6s	1.74nm			3.8mb	
		e	48	57.30		
		e	49	00.40		
		e	49	04.20		

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

? MAY 20, 1993 23h 10m 06.54± 1.02s
45.575 N ±11.6km 25.181 E ± 7.4km
DEPTH = 10.0km (geophysicist)
ROMANIA (358)

MTUR	0.36	193 iPc	10	14.50	0.5	
MLR	0.54	99 iPc	10	15.20	-2.4	
TNR	0.64	277 ePc	10	19.00	-0.4	
CVO	0.74	70 iPd	10	21.10	0.0	
		e	15	53.00		
ISR	1.06	114 iPc	10	56.50	30.0X	
DRA	1.11	216 ePd	10	32.00	4.7X	
VRI	1.12	74 iPd	10	28.20	0.6	
BRD	1.31	92 eP	10	32.50	1.7	
BUC	1.33	150 ePd	10	48.00	16.9X	
BUC1	1.37	154 iPc	10	50.00	18.4X	
GZR	1.70	265 ePc	10	42.50	6.0X	
PPE	1.82	68 eP	10	44.50	6.4X	
CFR	2.13	99 eP	10	46.00	3.4X	
BMR	2.40	332 ePd	10	55.00	8.6X	
BZS	2.50	272 ePc	10	52.50	4.6X	
SKO	4.51	218 ePn	11	35.50	19.1X	
VAY	4.66	205 ePn	11	18.40	-0.1	

S.D. = 1.5 on 7 of 17 obs.

MAY 20, 1993 23h 49m 25.56± 0.33s
43.284 N ± 3.1km 0.605 W ± 4.4km
DEPTH = 10.0km (geophysicist)
PYRENEES (378)
ML 3.1 (LDG). mbLg 2.9 (MDD).

OGE	0.15	140 Pg	49	30.36	1.3	
ESCF	0.21	174 Pg	49	29.17	-0.9	
		Sg	49	30.79		
MADF	0.21	229 Pg	49	30.66	0.5	
		Sg	49	33.89		
ATE	0.21	199 Pg	49	29.28	-0.9	
		Sg	49	31.10		
ISSF	0.29	209 Pg	49	30.66	-1.0	
		Sg	49	33.57		
JAU	0.30	145 Pg	49	31.51	-0.4	
ELYF	0.30	248 Pg	49	32.40	0.5	
		Sg	49	37.21		
BOH	0.35	239 Pg	49	32.75	0.0	
		Sg	49	36.75		
LHE	0.37	182 Pg	49	31.16	-2.1	
		Sg	49	34.18		
EPF	0.74	110 Pg	49	40.30	0.3	
		Sg	49	50.40		
EGRA	1.11	169 eP	49	49.00	2.7	
		eS	50	04.90		
ECRI	1.55	245 eP	49	55.00	1.7	
		eS	50	14.80		
LPO	1.91	42 Pn	49	59.60	1.2	
		Pg	50	04.70		
		Sg	50	32.00		
LFF	1.92	30 Pn	50	00.30	1.8	
		Pg	50	06.00		
		Sg	50	32.80		
CAF	2.53	49 Pn	50	07.70	0.4	
		Sn	50	36.90		
		Sg	50	51.30		
RJF	2.53	36 Pn	50	07.60	0.3	
		Pg	50	16.00		
		Sg	50	50.80		
ETOR	2.69	204 eP	50	09.40	-0.3	
ETER	2.73	110 eP	50	18.50	8.3X	
		eS	50	52.30		
LSF	3.33	26 Pn	50	18.20	-0.6	
		Pg	50	31.90		
		Sn	50	57.20		
		Sg	51	15.40		
MFF	3.33	5 Pn	50	18.50	-0.3	
		Pg	50	31.00		
		Sg	51	16.20		
TCF	3.61	33 Pn	50	21.90	-0.8	
		Pg	50	37.40		
		Sg	51	24.40		
MAF	3.71	36 Pn	50	24.10	0.0	
		Pg	50	37.90		
		Sg	51	28.20		
BGF	4.09	36 Pn	50	29.30	-0.1	
		Pg	50	45.60		
		Sg	51	39.80		
AVF	4.49	37 Pn	50	34.80	-0.3	
		Sg	51	51.20		
SMF	4.61	42 Pn	50	36.50	-0.4	
		Sg	51	55.30		
LPF	4.76	356 Pn	50	39.00	0.0	
		Sg	51	59.70		
SSF	4.77	36 Pn	50	38.70	-0.4	
		Sg	52	00.60		
LBF	4.92	40 Pn	50	40.30	-1.0	
		Sg	52	05.70		
LOR	5.08	37 Pn	50	43.20	-0.3	
		Sg	52	10.20		
GRR	5.11	358 Pn	50	43.10	-0.8	
		Sg	52	11.80		

S.D. = 1.0 on 29 of 30 obs.

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* MAY 21, 1993 01h 07m 39.60± 1.13s
31.461 N ± 9.9km 138.377 E ± 9.0km
DEPTH = 394.3 ± 11.3 km
4.0mb (12 obs.)
SOUTH OF HONSHU, JAPAN (211)

MAT	5.07	358 iPc	09	02.60	0.0	
		eS	10	06.00		
LZH	28.98	289 iPd	13	06.00	-0.7	
	1.0s	35.00nm			4.6mb	
CHTO	37.66	260 iPd	14	20.70	0.5	
	0.8s	11.71nm			4.3mb	
NST	38.19	255 eP	14	25.80	1.2	
GUN	45.39	280 P	15	23.00	0.1	
PKI	45.89	279 P	15	26.40	-0.3	
	0.5s	18.00nm			4.6mb	
KKN	45.94	280 P	15	26.80	-0.1	
DMN	46.14	279 P	15	28.60	0.1	
	0.5s	24.00nm			4.8mb	
GKN	46.41	280 P	15	30.60	0.1	
WRA	51.26	185 P	16	06.20	-0.6	
	0.5s	3.50nm			3.9mb	
ASPA	54.98	185 eP	16	34.00	0.2	
	0.5s	10.40nm			4.4mb	
HYB	55.63	270 eP	16	38.00	-0.6	
BALM	57.92	34 eP	16	52.81	-1.2	
GBA	58.33	267 Pd	16	57.00	-0.2	
	0.8s	5.00nm			4.0mb	
INK	60.49	25 eP	17	12.50	1.5	
	0.5s	1.00nm			3.6mb	
MBC	62.56	15 eP	17	25.00	0.4	
	0.5s	2.00nm			4.0mb	
YKA	69.89	28 eP	18	10.30	-0.1	
	1.0s	1.10nm			3.5mb	
HFS	78.10	335 eP	18	56.20	-0.8	
	0.4s	0 60nm			3.7mb	
GEC2	86.06	327 P	19	38.40	0.5	
	0.8s	0.63nm			3.5mb	

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

MAY 21, 1993 01h 08m 20.76± 0.42s
37.191 N ± 3.9km 117.800 W ± 4.0km
DEPTH = 5.0km (geophysicist)
CALIFORNIA-NEVADA BORDER REGION (40)
ML 2.5 (GS)

CWCR	0.50	307 P	08	30.79	-0.1	
BHPR	0.56	281 P	08	31.57	-0.4	
BCKR	0.68	318 P	08	34.25	-0.1	
CASR	0.71	303 P	08	34.70	-0.3	
ORC	0.81	303 P	08	36.45	-0.7	
BONR	0.86	333 iPc	08	37.89	-0.1	
CLKR	0.91	296 P	08	38.09	-0.7	
TNP	1.00	27 iPd	0B	41.19	0.8	
		eS	08	57.06		
MEMM	1.02	298 ePc	08	40.13	-0.4	
		eS	08	55.05		
WLHM	1.12	202 P	08	40.95	-1.4	
VPEM	1.24	181 P	08	43.68	-0.7	
TPNV	1.26	101 ePc	08	44.64	-0.2	
		eS	09	02.33		
WSHM	1.58	171 P	0B	50.50	1.0	
KVN	1.87	353 (Pn)	08	54.13	0.2	
		ePg	08	55.95		
		eS	09	21.68		
GSC	2.05	157 ePn	08	55.39	-1.0	
		ePg	0B	58.39		
		eS	09	26.24		
		iS	12	50.23		
PHBM	2.06	244 P	0B	57.82	1.4	
CMB	2.22	293 (Pn)	0B	58.41	-0.4	
		iPg	09	00.69		
		eSg	09	30.38		
MCUM	2.37	290 P	09	03.22	2.3X	
PMRM	2.41	235 P	09	05.23	3.7X	
ABL	2.60	207 eP	09	06.60	2.2X	
BCH	2.72	223 (P)	09	07.44	1.4	
ARN	2.98	274 ePn	09	11.55	1.9	
ARUT	3.52	79 (Pn)	09	17.24	-0.1	
		ePg	09	23.27		
DUG	4.92	51 ePg	09	55.30	18.0X	
		eS	10	58.52		

S.D. = 0.9 on 20 of 24 obs.

& MAY 21, 1993 01h 24m 49.95s
36.103 N 117.698 W
DEPTH = 1.2km
CALIFORNIA-NEVADA BORDER REGION (40)
<PAS-P>. ML 3.5 (PAS), 3.6 (BRK), 3.3 (GS).

RCWM	0.16	165	P	24 53.18	0.1
WCHM	0.38	234	P	24 57.22	-0.3
WSHM	0.50	160	P	24 59.93	0.0
ISA	0.77	235	eP	25 03.84	-1.4
			S	25 14.89	
WASM	0.79	243	P	25 04.94	-0.7
WOFM	1.00	236	P	25 08.78	-1.0
GSC	1.08	137	iPd	25 10.02	-1.1
BMTC	1.21	217	P	25 12.28	-1.1
BHPR	1.35	332	P	25 14.96	-1.0
TPNV	1.44	54	eP	25 16.51	-0.8
			S	25 37.43	
CASR	1.62	335	P	25 21.20	1.2
MARC	1.73	231	P	25 21.96	0.6
ABL	1.76	225	ePn	25 21.32	-0.7
			Pg	25 22.97	
FRI	1.85	299	eP	25 19.38	-3.6
			eS	25 46.91	
MEMM	1.85	328	eP	25 23.83	0.8
			S	25 48.17	
CRGC	1.86	243	P	25 24.21	0.9
SSK	1.89	180	ePn	25 22.85	-0.9
			Pg	25 25.66	
			S	25 50.53	
BONR	1.91	346	eP	25 24.55	0.3
PKEM	1.95	269	eP	25 26.15	1.6
YEG	1.96	251	P	25 25.67	1.0
TNP	2.01	11	ePn	25 26.08	0.5
			S	25 55.09	
PMRM	2.08	262	P	25 27.88	1.4
PSRM	2.11	264	P	25 28.71	1.9
CTM	2.15	266	P	25 28.95	1.5
BCH	2.15	245	eP	25 27.35	-0.1
PMCM	2.20	261	P	25 30.75	2.6
PHAM	2.21	264	ePn	25 26.94	-1.3
PCRM	2.22	271	P	25 29.48	1.1
PEC	2.25	169	eP	25 27.02	-1.9
WKR	2.30	264	P	25 30.45	0.8
PRCM	2.37	275	P	25 31.65	1.0
PMGM	2.39	255	P	25 31.92	1.0
PTV	2.45	271	P	25 32.88	1.1
PSAM	2.59	269	P	25 34.86	1.2
LRV	2.70	278	P	25 36.79	1.4
PLM	2.83	166	ePnd	25 36.05	-1.3
			Pg	25 42.65	
CMB	2.89	313	ePc	25 40.84	2.8
			eS	26 18.15	
BHRM	2.94	283	P	25 43.18	4.5
KVN	2.96	354	(Pn)	25 42.43	3.3
PRS	2.98	275	eP	25 40.06	0.8
SAO	3.09	283	eP	25 40.30	-0.5
			S	26 24.22	
MNHM	3.22	310	P	25 46.95	4.4
ARN	3.32	293	ePn	25 43.38	-0.8
			eS	26 25.16	
MHC	3.40	292	ePc	25 47.73	2.4
			eS	26 35.54	
ARUT	3.80	62	ePn	25 50.07	-1.1
GLA	3.86	141	ePn	25 47.98	-3.8
ORV	4.58	320	(Pn)	26 06.58	4.7
			Lg	27 08.81	
MSU	5.02	60	(Pn)	26 09.52	1.1
DUG	5.61	42	(Pn)	26 19.72	3.0
			Pg	26 36.52	
			Lg	27 46.85	

49 obs. associated

& MAY 21, 1993 01h 28m 26.66s
59.740 N 152.588 W
DEPTH = 88.0km
2.3mb (1 obs.)
SOUTHERN ALASKA (2)
<AEIC>.

OPT	0.34	255	iPd	28 39.66	-0.6
			eS	28 49.63	
INE	0.40	324	eP	28 39.92	-1.0
			eS	28 50.49	
INW	0.43	320	eP	28 40.21	-0.8
			eS	28 52.11	
XLV	0.53	123	eP	28 40.71	-0.9
			eS	28 52.60	
AUE	0.55	227	iPd	28 41.15	-0.7
AUL	0.56	231	iPd	28 41.36	-0.6
			eS	28 53.09	
AUH	0.58	229	iPd	28 41.49	-0.7
			eS	28 54.27	
AUW	0.58	231	iPd	28 41.50	-0.6
AUI	0.59	227	ePd	28 41.40	-0.8
			eS	28 52.20	
CNPM	0.72	107	iPc	28 42.61	-0.9
			eS	28 55.06	
RDW	0.75	352	ePd	28 43.41	-0.6
			eS	28 56.61	
PDB	0.81	274	iPd	28 43.27	-1.1
			eS	28 56.51	
NCT	0.84	348	ePd	28 43.96	-0.9
			eS	28 57.43	
DFR	0.86	357	ePc	28 44.12	-0.9
			eS	28 57.78	
BRLK	0.86	88	ePc	28 44.04	-0.9
			eS	28 57.54	
CDD	0.98	214	ePd	28 45.31	-1.0
			eS	28 59.46	
MCNL	1.05	239	ePd	28 45.74	-1.4
			eS	29 00.80	
SYI	1.14	175	ePc	28 47.29	-0.8
			eS	29 03.67	
SLKM	1.41	56	ePc	28 50.99	-0.7
			eS	29 09.44	
CKL	1 47	5	iPc	28 51.46	-1.0
			eS	29 11 05	
SPU	1.47	10	iPc	28 51 47	-0.9
			eS	29 10.91	
CKT	1.48	7	ePc	28 51.55	-1.0
			eS	29 10 91	
CKN	1.50	8	eP	28 51.83	-1.0
BGL	1.53	4	eP	28 52.48	-0.8
			eS	29 12.04	
CPAM	1.54	8	eP	28 52.46	-0.8
CP2	1.54	6	eP	28 51 96	-1.5
			eS	28 58.34	
CRP	1.55	8	eP	28 51.90	-1.6
CGLM	1.60	10	ePc	28 53.25	-0.9
			eS	29 13 90	
SEW	1.62	76	ePc	28 53.55	-0.7
			eS	29 12 75	
MPA	1.78	64	eP	28 55.10	-1.3
SUA	1.95	27	eP	28 58 39	-0.5
			eS	29 22.68	
SVW	2.04	314	P	28 58 20	-1.7
PTE	2.10	56	eP	28 59.44	-1.2
			eS	29 24.25	
PMS	2.13	43	P	29 00.50	-0.6
SKT	2.31	13	eP	29 01.89	-1.6
SML	2.94	43	ePc	29 11.74	-0.5
KLU	3.73	59	ePc	29 20.60	-2.5
YKA	18.37	65	eP	32 33.30	-3.4
	0.5s		0.10nm		2.3mb

38 obs. associated

MAY 21, 1993 01h 29m 57.77± 0.58s
46.449 N ± 5.8km 12.385 E ± 4.4km
DEPTH = 6.8 ± 5.8 km
NORTHERN ITALY (545)
ML 2.0 (VIE).

FVI	0.31	62	P	30 03 60	-0.5
			eSg	30 08 60	
CTI	0 65	232	P	30 10.00	-0.8
			eSg	30 19.50	
RBL	0.82	90	P	30 13.00	-1.0
			eSg	30 25.20	
KBA	0.91	46	iPgc	30 14.80	-0.8
			iSg	30 27.80	
WTTA	0.96	328	iPgc	30 16.30	-0.2
			iSg	30 30.10	
WATA	1.05	328	i(Pg)	30 18.80	0.9
			iSg	30 33.30	
SQTA	1.12	314	iPgc	30 18.80	-0.3
			iSg	30 34.10	
VOY	1.13	111	ePg	30 20.70	1.4
			eSg	30 36.10	
TRI	1.21	127	P	30 20.50	-0.1
			eSg	30 39.50	
MOTA	1.25	316	iPgc	30 22.10	0.6
			iSg	30 40.00	
LJU	1.55	104	eP	30 26.50	0.7
			eSg	30 49.00	
CEY	1.59	116	e(Pn)	30 29.10	2.7X
			eSg	30 50 00	
GEC2	2.56	20	Pg	30 47 00	6.6X
			Sg	31 22.30	
KHC	2.80	16	ePn	30 44.00	0.1
			e	30 55.00	
			e	31 13.00	
			eSg	31 28.00	
			e	31 37.00	

S.D. = 0.9 on 12 of 14 obs.

? MAY 21, 1993 02h 02m 54.93± 3.54s
21.248 S ±23.6km 169.687 E ±28.9km
DEPTH = 72.2 ± 22.8 km
4.5mb (3 obs.)
LOYALTY ISLANDS REGION (189)

DZM	3.13	254	iPd	03 43.00	0.0
			iS	04 22.90	
BKM	3.81	339	iPd	03 52.50	0.0
WB2	33.06	266	iPc	09 25.90	0.0
	0.5s		7.90nm		4.8mb
WRA	33.07	266	P	09 26.10	0.1
	0.5s		2.50nm		4.3mb
ASPA	33.11	259	iPc	09 26.10	-0.2
	1.0s		8.00nm		4.5mb
BRG	144.84	333	iPKP	22 24.00	-1.0
CLL	144.90	334	iPKP	22 24.10	-0.9
	0.7s		7.00nm		
			i	22 26.80	
PRU	145.24	332	ePKP	22 25.80	0.1
ZST	145.27	327	e(PKP)	22 26.30	0.5
KHC	146.29	331	ePKP	22 29.50	2.0X
GEC2	146.45	331	PKP	22 29.20	1.3
	0.8s		3.24nm		
			e	22 31.10	
			e	22 38.70	
			e	22 44.00	
			e	48 57.10	
			e	49 00.60	
GRF	146.88	334	ePKP	22 30.30	1.9X
OHR	147.09	314	ePKP	22 31.00	1.9X

S.D. = 0.8 on 10 of 13 obs.

MAY 21, 1993 02h 36m 39.54± 0.39s
35.993 N ± 2.6km 139.694 E ± 2.7km
DEPTH = 74.4 ± 3.2 km
5.2mb (114 obs.)
NEAR S. COAST OF HONSHU, JAPAN (230)
Mw 5.2 (HRV). Felt strongly in the Tokyo area.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 21S, 29C
Centroid Location:
Origin Time 02:36:38.5 0.6
Lat 35.93N 0.05 Lon 140.40E 0.10
Dep 48.7 4.0 Half-duration 1 0
Moment Tensor; Scale 10**16 Nm
Mrr= 5.42 0.33 Mtt=-5.09 0.53
Mff=-0.33 0.55 Mrt= 2.97 0.68
Mrf= 4.89 0.68 Mtf=-1.74 0.48
Principal Axes:
T Val= 8.45 Plg=61 Azm=286
N -1.08 18 53
P -7.37 22 150
Best Double Couple:Mo=7.9*10**16
NP1:Strike=270 Dip=28 Slip= 131
NP2: 45 69 71

KAKJ	0.44	61	P	36 47.10	-5.3X
CHJJ	0.57	276	P	36 52.10	-1.5
MAT	1.32	295	iPd	37 01.70	-1.0
			(S)	37 19.00	
IIDJ	1.54	251	P	37 07.30	1.7
MTMJ	1.64	292	iPd	37 07.60	0.6
YAMJ	2.19	7	P	37 13.00	-1.5
			eS	37 43.30	
TSRJ	3.05	263	P	37 27.60	1.2
OFUJ	3.46	26	P	37 28.50	-3.6X
			eS	38 06.70	
WKYJ	3.80	243	iP+	37 37.10	0.2
			eS	38 21.90	
AOMJ	4.59	6	eP	37 48.50	0.5
TKSJ	5.05	248	P	37 54.60	0.2
YONJ	5.14	263	P	37 56.10	0.4
SHK	5.92	258	iP	38 06.70	0.1
	1.0s		80.00nm		5.0mb
MRRJ	6.51	9	eP	38 12.20	-2.5X
HOOJ	6.96	23	eP	38 16.40	-4.5X
			eS	39 30.90	
SAP	7.17	10	eP	38 25.00	1.3

21d 02h

| | | |

| | | |

21d 02h

ARE	146.15	63	ePKP	56 15.00		2.5X
LPB	148.60	59	PKP	56 18.00		1.4
CNCB	148.88	59	PKPc	56 17.60		0.4
CCH	150.55	58	ePKP	56 25.00		5.6X
			i	56 26.00		
SIV	152.81	48	PKP	56 23.40		1.1
YJA	154.12	65	ePKPd	56 26.80		2.2

S.D. = 0.9 on 285 of 312 obs.

% MAY 21, 1993 02h 37m 33.94± 0.96s
36.840 N ± 9.1km 4.982 W ± 7.4km
DEPTH = 10.0km (geophysicist)
STRAIT OF GIBRALTAR (385)
mbLg 2.5 (MDD).

EPRU	0.24	302	ePg	37 39.50		0.5
			eSg	37 43.50		
EJIF	0.55	225	ePg	37 45.00		-0.1
			eSg	37 53.00		
ELUO	0.92	38	ePg	37 52.00		0.5
			eSg	38 05.00		
EHOR	1.00	348	ePg	37 52.20		-0.7
			eSg	38 05.00		
ECOG	1.21	69	ePn	37 56.50		-0.1
			eSn	38 13.00		

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

? MAY 21, 1993 02h 50m 07.42± 6.34s
15.949 N ±26.7km 60.078 W ±48.8km
DEPTH = 10.0km (geophysicist)
LEEWARD ISLANDS (92)
ML 3.0 (FDF).

DEG	1.01	291	eP	50 26.50		-0.1
			S	50 37.70		
MGG	1 19	269	eP	50 29.50		-0.1
CRM	1.44	214	eP	50 33.84		0.3
PAG	1.54	273	eP	50 35.30		0.2
FDF	1.59	221	iPc	50 35.63		-0.1
			S	50 52.70		
MVM	1 60	210	eP	50 35.00		-0 8
BIM	1.72	214	eP	50 38.10		0.6

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

MAY 21, 1993 03h 12m 27.67± 0.25s
36.001 N ± 4.3km 70.404 E ± 4.2km
DEPTH = 135.5km (4 depth phases)
4.5mb (33 obs.)
HINDU KUSH REGION, AFGHANISTAN (718)

OUE	6.48	208	eP	14 01.90		-0.2
			eS	15 16.10		
FRU	7.56	24	iPnd	14 15.00		-1.5
MAIO	8.83	275	iPc	14 32.00		-1.6
	0.8s		14.64nm		4.7mb	
			eS	15 59.00		
TLG	9.03	34	iPn	14 33.00		-3.2X
NDI	9.29	140	iPc	14 38.40		-1.3
			eS	16 14.00		
ASH	9.84	285	eP	14 41.00		-5.9X
GKN	14.46	119	P	15 43.60		-3.6X
DMN	15.03	120	P	15 50.60		-3.9X
KKN	15.04	119	P	15 50.00		-4.6X
PKI	15.27	119	P	15 53.40		-4.1X
GUN	15.40	117	P	15 55.00		-4.2X
POO	17.67	169	eP	16 27.80		1.0
GRS	19.34	288	eP	16 45.00		0.1
HYB	19.87	157	iPd	16 51.50		1.0
	0.8s		61.50nm		5.0mb	
			eS	20 25.00		
GRO	20.35	299	eP	16 57.00		2.0
ELT	20.53	28	iPc	16 56.00		-0.7
	1.4s		86.00nm		5.0mb	
			e	20 39.00		
SVE	21.83	345	ePd	17 11.00		1.3
	1.8s		30.00nm		4.4mb	
ARU	21.92	342	ePd	17 11.50		1.0
	1.0s		50.00nm		4 9mb	
			eS	21 12.00		
			e	21 44.00		
KIV	22.60	299	eP	17 20.30		2.9X
	1.2s		9.00nm		4.0mb	
			e	18 00.50	217kmX	
GBA	23.18	162	P	17 26.00		2.9X
	0.4s		5.00nm		4.3mb	
MOY	26.80	45	eP	17 57.80		1.2
LZH	26.97	80	eP	17 59.50		1.0
	2.0s		24.00nm		4.5mb	
			sP	18 04.50		
ZAK	27.68	48	iPc	18 04.80		0.3
	0.7s		17.00nm		4.8mb	
CIT	34.37	49	eP	19 03.00		-0.3
NRI	34.84	11	iPc	19 08.00		1.0
	0.9s		70.00nm		5.4mb	
			e	19 49.00	196kmX	
BOD	36.14	39	eP	19 16.20		-1.8
	1.0s		10.00nm		4.6mb	
KAF	37.79	328	iP	19 32.10		0.3
	0.3s		4.30nm		4.7mb	
NUR	37.95	325	iP	19 33.80		0.6
	0.4s		10.30nm		5.0mb	
UPP	41.17	322	iP	19 59.60		-0.1
HFS	43.16	322	eP	20 16.00		0.0
	0.3s		7.40nm		4.8mb	
NB2	44.49	323	P	20 26.40		-0.4
	0.4s		3.70nm		4.4mb	
TIK	46.41	22	iPc	20 41.50		-0.2
	1.0s		48.00nm		5.1mb	
			e	21 23.00	189kmX	
BSF	47.53	305	eP	20 50.70		-0.2
	1.1s		6.85nm		4.3mb	
LPG	48.00	302	eP	20 55.10		0.2
	0.8s		0.05nm		2.3mb	X
LPL	48.01	302	eP	20 55.10		0.3
	0.4s		1.25nm		4.0mb	
LBF	49.57	304	eP	21 06.20		-0.3
SMF	49.73	304	eP	21 07.70		-0.1
	0.6s		3.45nm		4.3mb	
AVF	50.03	304	eP	21 09.90		-0.1
	0.9s		3.75nm		4.2mb	
MAF	50.69	304	eP	21 15.40		0.4
	0.7s		3.75nm		4.3mb	
TCF	50.91	304	eP	21 17.00		0.2
	1.1s		11.00nm		4.6mb	
LDF	51.90	307	eP	21 23.90		-0.2
MFF	52.41	305	eP	21 27.40		-0.5
	0.5s		2.75nm		4.4mb	
GRR	52.42	307	eP	21 20.00		-8.0X
	0.7s		4.30nm		4.4mb	
BCAO	57 03	249	iPd	22 01.20		-0.6
	0.9s		14.00nm		4.9mb	
			id	22 32.90	134km	
ILT	64.39	23	iPd	22 50.00		-0.7
	0.6s		4.00nm		4.5mb	
			e	23 23.00	136km	
MBC	67.86	3	eP	23 13.00		0.4
	0.5s		3.00nm		4 4mb	
IMA	72.74	17	eP	23 41.79		-0.6
	0.5s		2.48nm		4.2mb	
			epP	24 15.69	137km	
KIC	74.27	266	P	23 51.20		-0.7
TIC	74.34	267	P	23 52.00		-0.3
INK	74.47	9	eP	23 53.50		1.3
	0.8s		3.00nm		4.1mb	
FBA	75.08	16	eP	23 55.52		-0.2
	0.5s		3.33nm		4 4mb	
			epP	24 29.20	135km	
FRB	75.39	342	eP	23 57.00		-0.5
KLU	78.46	17	eP	24 14.43		-0.2
BALM	79.68	16	eP	24 21.58		0.3
YKA	81.76	2	eP	24 31.00		-0.9
	0.8s		3.00nm		4.1mb	
WRA	82.14	121	P	24 35.00		0.4
	0.6s		1 80nm		4.0mb	
WB2	82.15	121	eP	24 34.50		-0.1
	0.9s		5.50nm		4 3mb	
FCC	84.71	352	eP	24 57.00		10.0X
JAQ	85.88	341	eP	24 53.00		0 0
RTPR	143.70	266	ePKPd	31 45.20		-2.9X

S.D. = 0.8 on 48 of 60 obs.

% MAY 21, 1993 03h 31m 14.08± 1.93s
31.108 S ±18.8km 68.244 W ±13.2km
DEPTH = 103.4 ± 27.2 km
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.29	221	iPc	31 29.40		0.1
			(S)	31 40.00		
CFA	0 50	180	iPd	31 30.50		0.0
			S	31 42.00		
RTCB	0 61	231	ePd	31 31.30		-0.1
			S	31 43.00		
RTBS	1.17	242	ePd	31 36.90		0.0
			S	31 53.00		
TCA	3.14	95	iPc	32 02.60		0.0
			S	32 40.30		
CYA	3.40	39	ePd	32 06.20		0.0
			(S)	32 38.30		

S.D. = 0.1 on 6 of 6 obs.

? MAY 21, 1993 04h 01m 54.40± 1.88s
31.408 S ±17.8km 69.501 W ±24.6km
DEPTH = 130.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTBS	0.26	171	iPd	02 12.90		0.1
			S	02 24.30		
RTCB	0.60	98	ePd	02 14.30		-0.2
			S	02 26.50		
ZON	0.72	101	iPd	02 15.00		-0.2
			eS	02 27.00		
RTLL	0.89	85	iPd	02 11.30		-5.3X
			(S)	02 23.00		
CFA	1.10	101	ePc	02 18.50		-0.1
			S	02 34.20		
RTPR	2.80	68	e(P)	02 39.20		0.3
RFA	3.46	166	ePc	02 48.00		0.1
			S	03 27.00		

S.D. = 0.2 on 6 of 7 obs.

& MAY 21, 1993 04h 11m 19.89s
36.097 N 117.710 W
DEPTH = 1.5km
CALIFORNIA-NEVADA BORDER REGION (40)
<PAS-P>. ML 2.9 (PAS), 2.9 (GS).

VPEM	0.17	210	P	11 23.37		0.0
NMC	0.30	212	P	11 25.81		-0.1
WCHM	0.36	234	P	11 26.96		-0.2
WLHM	0.49	277	P	11 29.27		-0.4
WSHM	0.50	159	P	11 29.76		0 0
WORM	0.59	227	P	11 31.03		-0.6
WBSM	0.66	212	P	11 31.80		-1.3
ISA	0.76	235	eP	11 33.93		-1.1
			S	11 44.34		
WASM	0.78	243	P	11 34.66		-0.7
WJPM	0.93	223	P	11 37.36		-1.1
WOFM	0.99	236	P	11 38.52		-1 0
GSC	1.08	137	eP	11 38.96		-2.2
			S	11 56.46		
BHPR	1.35	333	P	11 45.31		-0 5
TPNV	1.45	54	ePn	11 46.50		-0 9
			iPg	11 47.13		
CWCR	1.47	341	P	11 47.20		-0.6
MARC	1.72	231	P	11 52.18		1.1
ABL	1.75	225	ePn	11 49.79		-2.0
MCSM	1.83	329	P	11 54.29		1.4
CRGC	1.85	243	P	11 54.06		1.0
MEMM	1.85	328	ePn	11 54.01		1.1
			S	12 19.30		
SSK	1.88	180	ePn	11 52.46		-1.1
			S	12 20.58		
BONR	1.91	346	eP	11 54.87		0.7
PKEM	1.94	270	eP	11 55.81		1.5
YEG	1.94	251	P	11 55.54		1.1
TNP	2.02	11	ePn	11 56.22		0.6
			S	12 24.54		
BCH	2.14	245	eP	11 57.13		-0.1
			S	12 24.59		
PHAM	2.20	264	eP	11 58.79		0 8
			S	12 28.79		
PEC	2.25	168	ePn	11 55.49		-3.3
			S	12 30.65		
PLM	2.82	165	ePn	12 05.72		-1.4
			Pg	12 12.12		
CMB	2.88	313	ePn	12 09.28		1.4
			eS	12 47.62		
ARN	3.32	293	ePn	12 15.75		1.8
			S	13 00.90		
ARUT	3.81	62	(Pn)	12 20.67		-0.5
			ePg	12 30.48		
GLA	3.86	141	(Pn)	12 19.84		-1.9

33 obs. associated

& MAY 21, 1993 04h 57m 16.26s
37.093 N 117.819 W
DEPTH = 6.1km
CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. MD 3.3 (GM), 3.1 (PAS).
ML 3.3 (GS).

```
CWCR   0.56 316 P     57 27.15  -0.3
BCKR   0.75 324 P     57 30.59  -0.6
CASR   0.76 310 P     57 30.88  -0.7
BONR   0.94 336 eP    57 34.38  -0.4
CLKR   0 94 302 P     57 34.11  -0.7
MCSM   1.03 303 P     57 35.81  -0.5
MEMM   1.06 303 iPc   57 36.26  -0.3
                S     57 49.92
TNP    1.10  26 ePc   57 37.42   0.1
TPNV   1.26  96 iPc   57 40.80   0.6
                S     57 59.11
WORM   1.43 194 P     57 43.09   0.2
WASM   1.48 204 P     57 44.06   0.5
ISA    1.52 201 eP    57 40.77  -3.3
                Pg    57 44.51
WOFM   1.71 205 P     57 48.13   1.2
GSC    1.97 155 ePn   57 46.48  -4.1
                Pg    57 54.37
                S     58 16.96
KVN    1.97 354 ePn   57 50.35  -0.3
                S     58 19.77
SNDC   1.98 192 P     57 53.63   2.8
PHBM   2.01 246 P     57 52.93   1.9
CMB    2.25 296 ePnc  57 54.14  -0.4
                Pg    57 56.65
                S     58 25.17
MCUM   2.39 292 P     57 56.52  -0.1
BRMM   2.42 265 P     57 59.36   2.3
MARC   2.42 211 P     58 00.57   3.5
PHAM   2.43 240 (Pn)  57 53.56  -3.6
                S     58 33.69
MRFM   2.43 299 P     58 00.00   2.8
ABL    2.51 207 ePn   57 56.18  -2.3
                S     58 33.85
BAVM   2.62 283 P     58 01.78   2.0
BCH    2.64 225 ePn   57 59.84  -0.4
                S     58 36.43
CMPM   2.80 276 P     58 05.69   3.2
HJSM   2.80 265 P     58 04.84   2.4
LTR    2.80 267 P     58 03.94   1.5
SSK    2 88 178 (Pn)  58 00.01  -3.7
BVYM   2.90 264 P     58 10.78   6.9
SAO    2 92 265 ePn   58 01.88  -2.3
ARN    2 98 276 ePn   58 01.41  -3.5
                S     58 46.13
CVAL   3.18 281 P     58 15.14   7.4
PEC    3 24 170 (Pn)  58 03.66  -5.0
ARUT   3 55  77 ePn   58 12.37  -0.9
                Pg    58 23.57
                S     59 08.99
ORV    3.80 311 (Pn)  58 16.10  -0.5
PLM    3 81 168 (Pn)  58 16.74  -0.2
GLA    4.72 148 (Pn)  58 28.94  -0.8
DUG    4 99  50 (Pn)  58 35.36   1.7
       0.7s      4.11nm
                Pg    58 50.41
                Lg    59 53.27
SRU    6.10  68 (Pn)  58 49.79   0.5
DAU    6.11  55 (Pn)  58 50.43   0.9
       42 obs. ossocioted
-----------------------------------------
? MAY 21, 1993 05h 18m 26.25± 9.08s
  41.195 N ±41.5km  24.656 E ±55.3km
  DEPTH = 10.0km (geophysicist)
 GREECE-BULGARIA BORDER REGION    (363)

SRS    0.81 265 ePg   18 41.80  -0.1
OUR    1 00 211 ePg   18 45.01  -0.2
SOH    1.05 250 ePg   18 46.34   0.2
KNT    1.33 269 ePb   18 50.70  -0.1
                eSb   19 10.40
PAIG   1 47 211 ePb   18 52 86   0.1
     S.D. = 0.2  on   5 of   5 obs.
-----------------------------------------
? MAY 21, 1993 05h 54m 09.95± 4.85s
  43.333 N ±29.0km  19.892 E ±23.9km
  DEPTH = 10.0km (geophysicist)
 NORTHWESTERN BALKAN REGION       (383)
     ML 2.3 (TTG).

PLE    0.36 270 iPgc  54 17.15  -0.3
                iSg   54 23.06
IVA    0.46 179 iPgc  54 18.94  -0.4
                iSg   54 25.72
PVY    0.74 175 iPgd  54 24.00  -0.5
                iSg   54 34.91
NKY    0.84 232 iPgd  54 25.79  -0.4
                iSg   54 44.17
BRY    1.08 247 iPgc  54 29.99  -0.3
                iSg   54 46.40
BDV    1.31 217 iPgc  54 34.47   0.3
                iSg   54 53.88
HCY    1.35 230 iPgc  54 35.56   0.7
                iSg   54 55.34
ULC    1.45 199 ePg   54 37.14   0.9
                iSg   54 58.41
OHR    2.32 163 ePn   54 50.80   2.0X
     S.D. = 0.7  on   8 of   9 obs.
-----------------------------------------
   MAY 21, 1993 06h 12m 11.87± 0.14s
   51.897 N ± 4.2km  176.563 W ± 2.3km
   DEPTH = 61.4km ( 18 depth phases)
   5.3mb ( 82 obs.)
 ANDREANOF ISLANDS, ALEUTIAN IS. ( 7)
      Mw 5.3 (HRV). mb 5.3 (BRK).
      CENTROID, MOMENT TENSOR    (HRV)
      Dotod Used: GDSN
      L.P.B.: 34S, 53C
      Centroid Location:
      Origin Time        06:12:14.4 0.3
      Lot 52.11N 0.05 Lon 176.81W 0.04
      Dep  70.9 3.8 Holf-durotion  1.0
      Moment Tensor;   Scole 10**16 Nm
        Mrr=-1.55 0.31  Mtt=-3.91 0.51
        Mff= 5.46 0.32  Mrt= 7.73 0.35
        Mrf= 4.72 0.43  Mtf=-5.68 0.51
       Principol Axes:
        T  Vol=  8.35  Plg=12  Azm=252
        N          5.08      50      357
        P        -13.43      37      153
      Best Double Couple:Mo=1.1*10**17
       NP1:Strike=299 Dip=55 Slip=-160
       NP2:        197     74      -37

ADK      0.08 260 iPd   12 21.43   1.4
SMY      5.79 282 eP    13 36.44  -0.6
SDN     10.15  64 eP    14 36.25  -0.9
SVW     14.72  43 eP    15 39.51   1.7
        0.9s  1331.14nm        6.3mb
KDC     15.01  58 eP    15 40.72  -0.8
        0.4s   263.94nm        5.8mb
PET     15 13 284 eP    15 48.00   4.9X
     Z  20s     2.00um
                eS    18 36.00
TTA     15.56  37 eP    15 49.35   0.8
        0.8s   145.62nm        5.2mb
RSO     15.71  48 eP    15 53.16   2.5
ILT     16.09 357 iPd   15 58.80   3.7X
        1 0s   380.00nm        5.5mb
     Z  20s     1.10um         4.3Msz
     N  20s     2.10um
     E  20s     1.10um
CP2     16.26  45 eP    16 00.45   2.9
CRP     16.30  45 eP    16 00.92   2.9
SLKM    16.90  49 eP    16 05.69   0.3
SKR     17.11 277 eP    16 09.00   0.9
        0.8s   110.00nm        5.1mb
     Z  18s     1.40um         5.8Msz
     N  18s     1.00um
     E  18s     1.10um
 .              eS    19 20.00
PMR     17.76  46 eP    16 16.02   0.0
        1.1s   219.30nm        5.2mb
IMA     18.29  30 eP    16 23.91   1.3
        0.8s    42.72nm        4.7mb
                iPcP  20 52.00
KLU     19.19  48 eP    16 30.90  -2.3X
COL     19.68  38 eP    16 37.11  -1.1X
        0.8s   151.08nm        5.3mb
FBA     19.68  38 eP    16 36.81  -1.4X
        0.7s    84.28nm        5.1mb
MGD     19.83 307 eP    16 41.00   1.2
        0.8s   120.00nm        5.3mb
     Z  16s     0.90um         4.2Msz
     N  16s     0.70um
BALM    20.77  51 eP    16 47.86  -1.8X
SIT     24.22  61 eP    17 24.14   0.6
        0.7s    41.06nm        5.0mb
     Z  21s     1.92um         4.6Msz
KUR     24.28 268 eP    17 25.00   0.8
        1.0s   230.00nm        5.6mb
INK     26.24  35 eP    17 43.50   1.2
        1.0s    23.00nm        4.7mb
YSS     26.66 276 ePc   17 47.40   1.1
        0.7s    20.00nm        4.8mb
                e     17 58.00  39kmX
                e     18 10.10
KUSJ    27.32 267 P     17 50.50  -1.9
ASAJ    28.07 270 P     18 00.20   1.0
TIK     30.88 330 iPc   18 37.00  13.1X
        2.0s    90.00nm
     Z  16s     0.50um         4.3MszX
                i     19 39.00 323kmX
                i     21 17.00
OFUJ    31.52 263 eP    18 30.30   0.5
MBC     32.61  22 eP    18 40.50   1.5
        1.0s    42.00nm        5.2mb
PGC     33.48  74 eP    18 47.50   0.7
        0 7s    17.00nm        5.0mb
STW     33.57  75 P     18 49.02   1.4
HON     33.75 148 P     19 00.00  10.6X
     Z  21s     1.23um         4.6Msz
MCW     33.83  74 eP    18 51.01   1.0
YKA     33.86  47 eP    18 49.00  -1.0
        0.5s    10.60nm        5.0mb
ONR     34.09  77 P     18 53.90   1.7
KAKJ    34.26 260 P     18 53.80   0.2
NIIJ    34.30 262 P     18 54.40   0.3
GMW     34.37  75 eP    18 55.67   1.1
JCW     34.59  74 P     18 57.45   1.0
KMOR    34.87  79 P     19 00.02   1.1
CHJJ    35.08 261 P     19 01.30   0.6
MAJO    35.24 262 eP    19 01.42  -0.7
        0.7s    42.76nm        5.5mb
                e     19 16.12  57km
MAT     35.24 262 (P)   19 02.00  -0.1
        0.7s    22.60nm        5.2mb
     Z  20s     0.71um         4.4Msz
                eS    24 33.00
VLA     35.24 276 iPc   19 04.00   2.0
        1.8s    79.00nm        5.3mb
                e     19 17.00  49kmX
                e     19 29.00
                e     20 23.00
                e     21 30.00
                eS    24 32.00
                e     24 54.00
LON     35.34  76 eP    19 03.13   0.2
SHW     35.35  77 eP    19 03.93   0.8
MTMJ    35.46 263 P     19 04.50   0.4
ASR     35.76  77 P     19 07.55   1.0
WTV     35.99  74 P     19 08.88   0.5
IIDJ    36.11 261 eP    19 09.50   0.0
SAW     36.32  73 P     19 11.65   0.5
VGB     36.57  77 eP    19 14.72   1.4
                epP   19 31.91  69km
                ePcP  21 36.71
WAH2    36.68  75 P     19 15.18   1.1
CROR    36.72  78 P     19 15.71   1.1
DPW     36.95  72 eP    19 16.80   0.4
JBO     37.17  77 P     19 19.22   0.9
TSRJ    37.26 263 P     19 19.40   0.3
NEW     37.40  71 iPc   19 20.60   0.4
        0.8s   395.91nm        6.4mb X
     Z  19s     1.76um         4.9Msz
LNOR    37.89  75 P     19 25.35   1.0
LBFM    38.16  84 eP    19 28.16   1.3
                e     19 31.93  13kmX
                ePcP  21 40.88
WDC     38.20  85 eP    19 27.82   0.9
        1.2s    97.70nm        5.6mb
     Z  18s     0.26um         4.1Msz
WKYJ    38.37 262 eP    19 28.80   0.3
BOD     38.68 307 eP    19 29.00  -1.8
EBI     38.69  73 ePc   19 30.83  -0.4
MIN     38.92  85 ePc   19 33.75   0.6
YONJ    39.04 265 eP    19 33.70  -0.3
ORV     39.45  86 eP    19 37.08  -0.3
                ePcP  21 44.41
TKSJ    39.48 263 eP    19 38.70   1.0
BKS     40.02  89 ePc   19 42.71   0.6
        1.0s    90.00nm        5.6mb
MHC     40.72  89 ePc   19 48.61   0.6
        1.3s   120.00nm        5.6mb
ARN     40.79  89 eP    19 48.78   0.4
                iPcP  21 49.54
CMB     41.07  87 ePc   19 51.50   0.8
        1.3s    90.00nm        5.4mb
SHNJ    41.20 265 P     19 53.10   1.4
SAO     41.21  89 eP    19 52.26   0.4
        1.2s    76.51nm        5.4mb
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21d 06h

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MAIO    79.45 317 eP     24 14.00    1.1
                  e      27 29.00
                  eS     34 22.00
SHE     79.82 327 iPd    24 17.00    2.4
        0.8s     40.00nm          5.4mb
                  iS     34 14.00
LDF     79.84   2 eP     24 14.00   -0.6
        0.7s     10.70nm          4.9mb
CDF     80.02 357 eP     24 15.20   -0.5
        0.6s      2.00nm          4.2mb X
GRR     80.03   3 eP     24 15.30   -0.3
        0.8s     10.90nm          4.8mb
MTA     80.10 330 eP     24 17.00    0.9
                  ,      24 33.00   57km
LPF     80.38   3 eP     24 17.30   -0.2
        0.7s      6.15nm          4.6mb
HAU     80.45 358 eP     24 17.50   -0.4
     Z  20s       0.13um          4.3Msz
VRI     80.57 344 eP     24 21.00    2.4
BSF     80.61 358 eP     24 18.30   -0.6
CVO     80.71 344 eP     24 21.50    2.1
KBA     81.04 353 iPd    24 21.70    0.4
        0.6s      6.40nm          4.8mb
                  i      24 32.90   36kmX
                  i      24 58.70
                  i      25 14.10
MLR     81.07 344 eP     24 23.00    1.6
OUE     81.18 308 eP     24 22.60    0.3
LOR     81.21 360 eP     24 21.80   -0.1
     Z  21s       0.17um          4.4Msz
SSF     81.42 360 eP     24 23.00    0.0
        0.6s      4.05nm          4.6mb
LBF     81.50 360 eP     24 23.10   -0.4
GPS     81.60 328 eP     24 19.00   -5.3X
AVF     81.69   0 eP     24 24.20   -0.2
        0 6s      3 45nm          4.5mb
MFF     81 83   2 eP     24 25.10    0.0
        0 8s      8 60nm          4.8mb
SMF     81 84 360 eP     24 25.00   -0.2
        0.8s      7 50nm          4.7mb
TCF     82.19   1 eP     24 26.70   -0.4
        0.7s      3.65nm          4.5mb
LSF     82.22   1 eP     24 27.10   -0.1
MAF     82.26   1 eP     24 27.50    0.1
        0.6s      3 80nm          4.6mb
VBY     82.45 352 eP     24 27.50   -0.9
                  ePcP   24 32.40
                  ePP    24 45.00
RJF     83 17   1 eP     24 32.20    0.1
     Z  21s       0.17um          4.4Msz
WB2     83.36 226 iPc    24 32.80   -0.5
        0 9s     26.90nm          5.2mb
WRA     83.36 226 P      24 32.80   -0.5
        0.6s     12.30nm          5.1mb
BRS     83.41 207 iP     24 35.00    1.6
LFF     83.52   2 eP     24 34.10    0.2
CAF     83.55   1 eP     24 34.50    0.4
SKO     85.21 347 eP     24 43.00    0.5
HYB     85.32 292 eP     24 40.00   -3.4X
OLP     85.37 215 iPd    24 44.20    1.0
OHR     86 15 347 iP     24 45.20   -2.0
ARMA    86.59 207 iPd    24 50.80    1.5
        1.1s     75.00nm          5.8mb
ASPA    86.82 224 iPd    24 51.10    0.6
        0.8s     36.90nm          5.6mb
POO     87.08 296 eP     24 51.50   -0.6
GBA     89.01 291 P      25 01.00   -0.2
STK     91.14 215 eP     25 11.40    0.8
        0.6s     15.10nm          5.6mb
BWA     91.27 208 iPd    25 11.80    0.6
CAN     91.94 208 iPd    25 15.00    0 7
LPB    114.22  86 (PKP)  30 50.00    3.5X
CNCB   114.50  86 PKP    30 47.60    0.4
SIV    118.12  80 PKP    30 52.60   -0.8
TIC    121.24  10 PKP    30 59.30   -0.1
KIC    121.55  10 PKP    30 59.50   -0.5
LIC    121.66  10 PKP    31 00.00   -0.1
     Z  22s       0.14um          4.6Msz
BCAO   122.43 342 iPKPc  31 01.20   -0.5
        0.7s     27.00nm
RTBS   124.43  99 ePKPc  31 05.70    0.7
RTCB   124.71  98 iPKPc  31 05.50   -0.2
RTLL   124.80  98 iPKPc  31 05.50   -0.3
RTPR   125.29  96 ePKPd  31 06.30   -0.4
TCA    127.20  95 ePKPd  31 10.50    0.0
PPD    128.65  76 ePKP   31 13.60    0.2
VAO    131.98  73 (PKP)  31 19.00   -0.8

MTD    138.47 317 iPKPc  31 44.00   11.7X
LSZ    138.47 322 ePKP   31 31.00   -1.3
                  i      35 01.20
SPA    141.71 180 iPKPc  31 30.50   -6.2X
        1.0s     40.50nm
CIR    142.21 314 iPKPd  31 38.90    0.1
BUL    142.71 319 ePKP   31 33.00   -6.8X
                  i      35 09.50
MAW    147.75 218 iPKPd  31 59.50   13.0X
        1.0s     66.67nm
SLR    147.79 315 iPKPd  31 47.30   -0.8
        0.8s    120.00nm
KSR    148.50 317 ePKP   31 48.50   -0.8
        1.0s    110.00nm
WIN    148.88 335 ePKP   31 50.50    0.5
        0.5s     38.00nm
PRY    149.18 315 iPKPd  31 49.00   -1.3
        1.5s    100.00nm
SEK    150.32 313 ePKP   31 51.00   -1.0
        1.0s    400.00nm
SWZ    150.32 318 ePKP   31 57.50    5.5X
        1.3s    100.00nm
BLF    151.63 315 iPKPd  32 00.50    6.6X
        0.6s    104.00nm
FRS    152.56 315 iPKPd  32 02.80    7.8X
        0.9s    108.00nm
POF    154.37 325 iPKPc  32 07.00    9.5X
        0.5s      8.00nm
      S.D. = 1.1  on 230 of 260 obs.
-------------------------------------
?  MAY  21, 1993  06h 30m 47.81± 9.31s
    10.070 N ±47.7km   59.764 W ±61.3km
    DEPTH =  10 0km  (geophysicist)
 NORTH ATLANTIC OCEAN                (402)
      MD 3.6 (TRN)

TBH     1.35 288 eP      31 13.19    0.6
TPP     1.68 279 eP      31 17.77    0.4
                 eS      31 38.35
TRN     1.71 290 eP      31 17.77   -0.1
                 eS      31 38.35
TCE     2.05 288 eP      31 21.93   -0.9
                 eS      31 45.80
GRW     2.79 318 eP      31 33.45    0.0
                 eS      32 05.08
      S.D. = 0.8  on   5 of   5 obs.
-------------------------------------
    MAY  21, 1993  07h 21m 44.05± 0.66s
    37.260 N ± 4.4km  117.737 W ± 6.5km
    DEPTH =   5.0km  (geophysicist)
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      ML 2.5 (GS).

BHPR    0.60 274 P       21 55.50   -0.6
BCKR    0.67 311 P       21 57.29   -0.1
CASR    0.72 296 P       21 58.38   -0.1
ORC     0.82 297 P       22 00.25   -0.4
BONR    0.83 327 ePn     22 00.65   -0.1
TNP     0.92  27 eP      22 03.54    1.3
CLKR    0.93 291 P       22 01.83   -0.6
MCSM    1.01 293 P       22 03.68   -0.1
MEMM    1.04 293 eP      22 03.64   -0.5
                 S       22 17.61
WLHM    1.20 203 P       22 05.59   -1.5
VPEM    1.31 183 P       22 08.43   -0.4
WSHM    1.64 173 P       22 14.90    1.3
KVN     1.81 351 ePn     22 13.79   -2.5
WJPM    1.94 198 P       22 19.19    1.1
GSC     2.09 159 (Pn)    22 19.05   -1.3
CMB     2.24 291 eP      22 23.68    1.3
                 Lg      22 52.93
MCUM    2.39 288 P       22 27.34    2.8X
BRMM    2.51 261 P       22 28.23    2.1X
PHAM    2.57 237 P       22 29.43    2.4X
MNHM    2.60 291 P       22 30.82    3.4X
ABL     2.69 207 ePn     22 28.78   -0.2
BCH     2.81 223 ePn     22 31.29    0.7
LTR     2.88 264 P       22 36.81    5.3X
ARN     3.03 273 ePn     22 34.94    1.4
JTGM    3.32 267 P       22 35.02   -2.6X
ORV     3.74 309 (Pn)    22 45.04    1.3
      S.D. = 1.1  on  20 of  26 obs.
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%  MAY  21, 1993  07h 32m 39.04± 1.08s
    15.768 N ± 6.7km   60.857 W ±14.2km
    DEPTH =  33.0km  (normal)
 LEEWARD ISLANDS                     ( 92)

      ML 2.8 (FDF).

MGG     0.47 289 iPc     32 48.65   -0.5
DEG     0.58 340 ePc     32 50.40   -0.4
                 S       32 57.00
SFG     0.58 326 ePc     32 50.50   -0.3
DOG     0.78 290 iPc     32 53.45   -0.1
PAG     0.83 288 iPc     32 54.10   -0.3
                 S       33 04.20
CRM     1.01 183 eP      32 57.09    0.2
                 S       33 09.10
FDF     1.07 195 iPd     32 57.17   -0.6
                 S       33 09.70
MVM     1.21 182 iPc     32 59.93    0.2
                 S       33 14.60
BIM     1.26 189 iPc     33 00.63    0.2
                 S       33 15.60
MGH     1.61 306 eP      33 07.10    1.5
      S.D. = 0.7  on  10 of  10 obs.
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•  MAY  21, 1993  07h 41m 38.25± 2.36s
    41.407 N ±18.9km   23.111 E ± 6.8km
    DEPTH =  10.0km  (geophysicist)
 GREECE-BULGARIA BORDER REGION       (363)
      ML 1.3 (SKO).

KNT     0.29 213 ePg     41 44.34    0.0
                 eSg     41 51.10
VAY     0.42 258 iPg     41 47.00    0.3
                 iSg     41 52.40
SRS     0.46 128 iPg     41 46.98   -0.7
                 eSg     41 57.40
SOH     0.61 162 ePg     41 50.50   -0.1
                 eSg     42 03.20
GRG     0.70 230 ePg     41 51.66   -0.4
THE     0.78 188 ePg     41 53.38   -0.1
OUR     1.26 148 ePb     42 02.74    1.1
      S.D. = 0.7  on   7 of   7 obs.
-------------------------------------
&  MAY  21, 1993  07h 44m 21.70s
    36.091 N          117.705 W
    DEPTH =   1.3km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      <PAS-P>. ML 2.9 (PAS), 2.8 (GS).

ISA     0.76 236 eP      44 35.71   -1.1
                 S       44 46.00
ABL     1.75 225 ePn     44 53.13   -0.4
MEMM    1.86 328 ePn     44 55.41    0.5
                 S       45 21.15
SSK     1.88 180 ePn     44 54.51   -0.8
                 S       45 21.58
BONR    1.92 346 eP      44 55.71   -0.4
PKEM    1.95 270 (P)     44 57.87    1.7
TNP     2.03  11 ePn     44 56.88   -0.7
                 S       45 27.75
BCH     2.14 246 ePn     44 58.84   -0.2
PHAM    2.20 264 eP      45 00.42    0.5
PEC     2.24 168 ePn     44 58.69   -1.8
                 Pg      45 03.84
PLM     2.82 165 ePn     45 07.78   -1.1
CMB     2.89 313 eP      45 11.71    1.9
                 S       45 47.76
KVN     2.97 354 (Pn)    45 14.86    3.8
ARN     3.32 293 (Pn)    45 18.51    2.6
      14 obs. assocloted
-------------------------------------
•  MAY  21, 1993  08h 22m 51.29± 1.42s
    19.724 S ±12.4km  177.741 W ±19.9km
    DEPTH = 597.9 ± 13.2 km
    4.6mb (  9 obs.)
 FIJI ISLANDS REGION                 (181)

VUN     3.98 295 eP      24 17.00    0.1
KUZ    17.90 197 eP      26 27.80    0.8
URZ    19.00 193 eP      26 35.10   -2.2
NOZ    19.18 190 eP      26 40.40    1.5
NGZ    20.22 195 eP      26 48.20   -0.5
MNG    21.62 194 eP      26 57.10   -4.1X
ARMA   29.63 243 iPd     28 12.60    0.9
        0.9s     8.00nm          4.3mb
CTA    33.82 263 iPc     28 46.70   -0.2
        1.0s    15.00nm          4.6mb
OLP    35.53 252 eP      29 00.60   -0.3
MDG    38.29 287 eP      29 24.60    0.9
STK    38.35 243 eP      29 25.00    1.0
        0.7s     3.60nm          4.0mb
```

21d 08h

```
ASPA    44.94 256 iPd    30 15.70  -0 4
        1.1s     42.20nm          4.9mb
                  i      31 44.10
                  eS     36 10.20
WB2     44.94 261 iPd    30 15.30  -0.9
        0.5s     23.80nm          5.0mb
WRA     44.95 261 P      30 15.90  -0.4
        0.7s      7.90nm          4.4mb
MTN     49.41 270 iPc    30 48.80  -1.0
        0.6s     79.00nm          5.4mb
MAT     69.73 323 eP     33 03.00  -1.0
        0.6s      6.67nm          4.3mb
CHTO    90.21 290 eP     34 51.90   1.5
        0 9s      8.53nm          4.7mb
NB2    138.24 353 PKP    41 03.60  -6.9X
        0.6s      0.50nm
HFS    138.81 351 ePKP   41 01.10 -10.3X
        0.4s      1.60nm
EKA    144.21   5 PKPd   41 21.10   0.1
        0.8s      5.10nm
KSP    147.02 344 iPKPd  41 29.50   3.7X
SPC    147.25 338 ePKP   41 30.00   3.6X
HRI    147.29 301 ePKP   41 30.80   3.9X
CLL    147.36 347 iPKPd  41 30.00   3.7X
        0.8s     23.00nm
                  i      41 33.40
BRG    147.57 346 iPKPd  41 30.50   3.9X
        0.8s     12.00nm
MLR    147.70 328 ePKPc  41 31.50   4.3X
JVI    147.96 299 ePKP   41 32.50   4.6X
PRU    148.25 345 PKP    41 32.30   4.6X
        0 8s     12.30nm
MOX    148.27 349 ePKP   41 32.80   5.0X
        1 5s     15.00nm
RMN    148.89 297 ePKP   41 34.60   5.1X
ZST    149.16 340 e(PKP) 41 34.70   5.5X
GRF    149.25 349 ePKPd  41 35.20   5.9X
     Z  20s      0.10um          4.6Msz
                  e      41 42.10
KHC    149.28 345 iPKPd  41 35.50   6.1X
        1.2s     10.00nm
                  e      41 42.80
GEC2   149.52 345 PKP    41 35.50   5.7X
        0.7s      7.77nm
                  e      41 43.00
DOU    149.64 357 PKPc   41 36.20   6.4X
WLF    149.97 355 iPKP   41 37.24   7.0X
FLN    150.95   4 ePKP   41 38.50   6.7X
        0.5s      8.10nm
CDF    151.10 353 ePKP   41 39.10   6.9X
        0.7s      8.60nm
LDF    151.14   3 ePKP   41 38.80   6.7X
        0.4s      3.85nm
KBA    151.25 344 iPKPc  41 38.80   6.2X
        0.8s      5.60nm
GRR    151.29   4 ePKP   41 39.40   7.1X
        0.5s      8.55nm
WTTA   151.48 347 iPKPc  41 39.70   6.8X
HAU    151.59 354 ePKP   41 40.10   7.3X
        0.7s      7.60nm
LPF    151.64   5 ePKP   41 40.30   7.5X
        0 5s     13.55nm
BSF    151.72 354 ePKP   41 40.30   7.2X
        0.7s      4.65nm
LOR    152.50 358 ePKP   41 42.20   8.1X
        0.5s      3.85nm
SSF    152.71 358 ePKP   41 42.80   8.4X
LBF    152.77 357 ePKP   41 42.90   8.3X
MFF    153.12   4 ePKP   41 43.30   8.3X
        0 6s     4.35nm
TCF    153.51   0 ePKP   41 44.20   8.7X
LSF    153.54   1 ePKP   41 44.20   8.6X
     S.D. = 1.1  on  17 of  51 obs.
-------------------------------------
?  MAY  21, 1993  08h 34m 04.62± 3.32s
   10.635 N ±44.0km   86.509 W ±10.6km
   DEPTH =  33.0km  (normal)
   4.5mb (  9 obs.)
 OFF COAST OF COSTA RICA          ( 77)

TPX     7.03 308 (P)    35 49.00   1.0
OXX    11.81 304 (P)    36 53.50  -0.5
PPM    14.40 307 (P)    37 27.50  -1.1
CRX    15.41 306 (P)    37 42.50   0.8
MRX    16.79 304 (P)    38 00.50   1.6
PRM    23.65   9 (P)    39 15.00   1.1
JSC    24.02  11 eP     39 19.40   1.9
                  e      39 45.38
MYNC   24.42   5 eP     39 22.79   1.3
        0.8s      9.30nm          4.4mb
MIAR   24.66 346 eP     39 21.89  -1.8
        0.8s     19.33nm          4.7mb
OLY    25.16 350 eP     39 26.59  -1.9
GRT    25.65 355 eP     39 31.69  -1.4
CEH    26.03  14 eP     39 37.44   0.9
        0.6s     12.78nm          4.7mb
ACO    28.35 338 iPc    39 53.60  -4.2X
ALO    30.27 326 eP     40 14.23  -0.9
        0.9s      5.72nm          4.4mb
RSNY   35.34  15 eP     40 59.11   0.2
        1.3s     20.23nm          4.9mb
SRU    35.53 327 eP     41 00.20  -0 6
MSU    36.02 325 eP     41 05.89   0.9
EEO    36.44   9 eP     41 11.00   2.9X
RSSD   36.65 339 eP     41 09.91  -0.3
        1.0s      9.30nm          4.6mb
DAU    36.86 328 eP     41 12.25   0.1
BW06   37.81 332 eP     41 19.08  -0.9
        0.7s      3.02nm          4.3mb
                  e      43 41.01
HVU    38.64 328 eP     41 27.80   0.9
LMN    39.69  24 eP     41 39.50   4.1X
ULM    40.25 351 eP     41 40.00   0.1
LRM    41.48 332 eP     41 50.30  -0.1
JAO    43.91   9 eP     42 08.50  -1.3
FCC    48.37 355 eP     42 52.00   7.0X
FRB    54.54  10 eP     43 50.00  18.5X
YKA    55.60 345 eP     43 35.60  -3.6X
        0.9s      4.60nm          4.5mb
INK    65.20 343 eP     44 45.00   0.4
        1.0s      2.00nm          4.2mb
MBC    67.93 352 eP     45 01.50  -0.3
BJI   125.37 339 ePKP   53 01.00  -3.1X
GBA   151.13  34 PKP    53 56.00   5 2X
     S.D. = 1.1  on  25 of  33 obs.
-------------------------------------
    MAY  21, 1993  08h 47m 42.28± 0.42s
    37.145 N ± 3.0km  117.748 W ± 4.6km
    DEPTH =   5 0km  (geophysicist)
  CALIFORNIA-NEVADA BORDER REGION ( 40)
       ML 2.5 (GS).

CWCR    0.57 308 P       47 52.88  -0.7
8HPR    0.61 285 P       47 54.20  -0.3
BCKR    0.74 318 P       47 56.88  -0.2
CASR    0.77 304 P       47 57.50  -0.4
ORC     0.87 304 P       47 59.50  -0.2
BONR    0.92 332 eP      48 00.41  -0.1
                 S       48 15.10
CLKR    0.97 298 P       48 01.00  -0.3
TNP     1.03  24 eP      48 02.84   0.6
                 S       48 19.41
MCSM    1.05 299 P       48 02.75   0.0
MEMM    1.08 299 ePc     48 02.93  -0.1
                 S       48 17.36
WLHM    1.09 205 P       48 02.28  -1.2
VPEM    1.19 183 P       48 05.57   0.4
NMC     1.31 186 P       48 07.44   0.5
WORM    1.50 196 P       48 09.64  -0.3
WSHM    1.52 172 P       48 11.64   1.4
ISA     1.59 202 eP      48 10.73  -0.5
                 S       48 30.20
WBSM    1.64 191 P       48 13.23   1.2
WOFM    1.79 206 P       48 14.85   0.7
KVN     1.92 352 ePn     48 17.73   1.6
GSC     1.99 157 ePn     48 16.25  -0.8
                 Pg      48 22.01
CMB     2.28 294 eP      48 21.20   0.0
                 S       48 49.89
BRMM    2.48 264 P       48 26.60   2.6X
CRGC    2.48 221 P       48 26.90   2.8X
PHAM    2.50 239 (Pn)    48 23.16  -1.2
                 S       48 56.15
ABL     2.58 208 ePn     48 26.02   0.4
                 S       49 00.88
BCH     2.72 225 eP      48 28.73   1.2
                 S       49 01.51
ARN     3.03 275 ePn     48 34.05   2.3X
                 S       49 15.59
PEC     3.28 171 (P)     48 34.11  -1.3
ORV     3.81 310 (Pn)    48 44.40   1.5
SRU     6.02  69 (P)     49 12.81  -1.6
     S.D. = 0.9  on  27 of  30 obs.
-------------------------------------
?  MAY  21, 1993  08h 47m 56.33± 0.98s
    40.590 N ±10.5km   22.887 E ±12.6km
    DEPTH =  10.0km  (geophysicist)
 GREECE                           (364)

THE     0.07  54 ePg     47 58.68   0.0
                 eSg     48 00.24
SOH     0.42  57 ePg     48 05.00   0.0
                 eSg     48 11.10
KNT     0.57   1 ePg     48 07.92   0.0
                 eSg     48 16.50
LIT     0.58 212 iPg     48 08.01   0.0
     S.D. = 0.0  on   4 of   4 obs.
-------------------------------------
&  MAY  21, 1993  08h 59m 15.95s
    36.098 N          117.706 W
    DEPTH =   1 5km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      <PAS-P>. ML 3.5 (PAS), 3.5
      (BRK), 3 2 (GS).

NMC     0.30 212 P       59 21.94   0.0
WCHM    0.37 234 P       59 23.12  -0.2
WSHM    0.50 159 P       59 25.81   0.0
WBSM    0.66 212 P       59 28.68  -0.5
ISA     0.76 235 eP      59 30.00  -1.1
WJPM    0.93 223 P       59 33.50  -1.1
SNDC    1.07 207 P       59 36.00  -1.0
GSC     1.08 137 eP      59 35.89  -1.3
ARVC    1.33 224 P       59 41.43   0.1
CWCR    1.48 341 P       59 43.29  -0.5
CASR    1.62 336 P       59 47.54   1.6
MARC    1.72 231 P       59 48.18   1.0
ABL     1.75 225 ePn     59 47.16  -0.7
MCSM    1.83 329 P       59 49.95   1.0
FRI     1.84 300 eP      59 48.15  -0.8
                 eS      00 12.95
MEMM    1.85 328 eP      59 49.96   1.0
SSK     1.88 180 ePn     59 48.69  -1.0
                 Pg      59 51.56
BONR    1.91 346 ePn     59 49.97  -0.3
PHBM    1.93 275 P       59 51.54   1.4
PKEM    1.95 270 eP      59 50.05  -0.4
TNP     2.02  11 eP      59 51.39  -0.3
PMRM    2.08 262 P       59 53.32   1.0
PKM     2.10 236 P       59 53.82   1.0
CTM     2.14 266 P       59 54.79   1.5
BCH     2.14 246 ePn     59 52.49  -0.9
PHAM    2.20 264 eP      59 54.28   0.2
PCRM    2.21 271 P       59 55.36   1.1
PEC     2.25 168 eP      59 53.41  -1.4
PRCM    2.36 275 P       59 57.54   1.0
PRI     2.40 272 iP      59 57.78   0.7
                 eS      00 31.05
PTV     2.44 271 P       59 58.84   1.2
BRMM    2.62 287 P       00 02.56   2.5
PLM     2.82 166 ePn     00 01.38  -1.8
                 Pg      00 08.51
CMB     2.89 313 ePc     00 06.25   2.3
                 eS      00 43.70
BHRM    2.94 283 P       00 07.93   3.3
KVN     2.96 354 (Pn)    00 05.61   0.4
PRS     2.97 276 eP      00 06.05   0.9
SAO     3.09 284 eP      00 07.61   0.9
ARN     3.32 293 (Pn)    00 09.36  -0.7
MHC     3.40 293 eP      00 13.27   2.0
                 eS      01 02.09
GLA     3.86 141 (Pn)    00 14.09  -3.6
ORV     4.58 320 ePg     00 39.79  12.0
                 Lg      01 36.20
MSU     5.03  60 ePn     00 35.26   0.8
                 Pg      00 51.70
SRU     6.45  60 (Pn)    00 55.95   1.4
      44 obs. ossociated
-------------------------------------
    MAY  21, 1993  09h 01m 17.71± 0.41s
    39.776 N ± 3.7km   28.956 E ± 3.8km
    DEPTH =  14.6 ±  2.7 km
    3.8mb (  5 obs.)
 TURKEY                           (366)
      ML 4.2 (ISK). Felt in the Burso
      area and ot Istanbul.

DST     0.31 236 iPg     01 24.10  -0.3
KCT     0.66 316 iPg     01 30.30  -0.1
YLV     0.85  22 iPg     01 33.50  -0.2
BNT     0.98 306 iPg     01 35.60  -0.4
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EDC      1.01  305 iPg    01 36.50    0.0
GBZT     1.08   20 iPgc   01 38.50    1.0
                    iSg    01 53.00
GPA      1.16   63 iPn    01 38.90   -0.1
HRT      1.18   27 ePn    01 38.00   -1.3
EYL      1.21   49 iPn    01 38.80   -1.1
ISK      1.29    3 iPn    01 41.50    0.4
                    iSg    01 57.50
ITU      1.33    2 iPnc   01 43.00    1.3
CTT      1.43  344 ePn    01 42.50   -0.6
KGT      1.44  299 iPn    01 43.00   -0.2
KHL      1.52  163 iPn    01 45.20    0.8
IZM      1.91  224 iPn    01 50.00    0.0
EZN      2.03  272 iPn    01 52.10    0.4
DMK      2.24  336 iPn    01 55.10    0.3
CIN      2.28  198 iPc    01 53.00   -2.3
ALN      2.49  298 ePg    02 04.36    6.0X
                    eSg    02 16.20
YER      2.69  192 iPn    02 02.00    0.7
ELL      3.11  166 iPn    02 08.60    1 3
OUR      3.86  280 ePb    02 17.44   -0.3
                    iSb    02 39.46
KAS      4.00   65 ePn    02 23.00    3.2X
                    iSg    03 33.00
PAIG     4.06  274 ePb    02 20.44   -0.2
SRS      4.31  290 ePn    02 25.00    0.8
                    eSn    02 52.40
SOH      4.41  285 ePn    02 25.40   -0.3
KNT      4.82  289 ePn    02 31.68    0.2
                    eSn    03 03.90
VAY      5.10  290 iPn    02 31.00   -4.4X
GRG      5.14  285 ePn    02 35.50   -0.5
                    eSn    03 10.90
AGG      5.19  264 ePn    02 36.88    0.2
                    iSn    03 14.41
CFR      5.44  354 eP     02 40.00   -0.1
ISR      5.65  342 eP     03 04.00   20.8X
FNA      5.88  282 ePn    02 45.30   -1 2
DRA      6.01  326 ePd    03 16.00   27.8X
SKO      6.10  293 ePn    02 52.50    2 9X
MLR      6.13  340 eP     02 50.00    0.0
MTUR     6.16  333 eP     02 51.10    0.7
CMP      6 20  333 ePc    03 01.00   10.1X
VPI      6.31  346 eP     02 51.50   -0.9
OHR      6.36  285 iPn    02 53.80    0.5
CVO      6.38  342 eP     02 55.00    1.5
PPE      6.51  352 eP     02 57.00    1.7
PHP      6.74  289 eP     03 09.00   10.4X
TNR      6.81  331 ePc    02 57.00   -2.5
SPN      6.89  274 eP     03 04.00    3.3X
TIR      7.10  286 eP     03 06.00    2.5
GZR      7.23  323 ePd    03 10.00    4.6X
LACI     7.27  288 eP     03 05.00   -0.9
SSR      7.37  316 ePc    03 12.00    4.6X
BZS      7.95  320 eP     03 08.50   -7.0X
MGR     10.30  276 P      03 48.20    0.3
SGO     10 48  279 P      03 51.30    0.9
LPG     17.29  297 eP     05 24.70    4.4X
        0 8s      4.55nm              3.7mb
LPL     17.30  297 eP     05 24.20    3.8X
CDF     17.76  306 eP     05 27.50    1.6
LBF     19.48  300 eP     05 46.20   -0.8
        0.8s      5.25nm              3.9mb
LOR     19 62  301 eP     05 47.80   -0.7
     Z  19s       0.20um
SSF     19.81  300 eP     05 50.30   -0.2
        1.0s      7.80nm              4.0mb
AVF     19.86  299 eP     05 50.00   -0.9
        1 1s     75.50nm              4.9mb X
MAF     20.29  297 eP     05 54.30   -1.2
        0 8s      4.45nm              3.9mb
NB2     23.95  339 P      06 40.20    8.3X
        0 6s      1.10nm              3.6mb
     S.D. = 1.0   on  46 of  61 obs.
-------------------------------------------
?  MAY  21, 1993  10h 02m 41.29± 3.89s
   31.651 S ±47.4km   68.130 W ±21.2km
   DEPTH = 102.3 ± 27.3 km
 SAN JUAN PROVINCE, ARGENTINA      (137)

CFA      0.10  295 iPd    02 55.70   -0.3
                    S      03 06.80
RTLL     0.43  318 iPc    02 57.50    0.4
ZON      0.48  282 iPd    02 57.00   -0.5
                    eS     03 09.00
RTCB     0.59  286 ePd    02 58.50    0.1
RTBS     1.13  269 e(P)d  03 03.80    0.2
RTPR     1.93   46 ePd    03 14.20    0.7
CYA      3.78   33 ePd    03 38.00   -0.6
                    (S)    04 14.30
     S.D. = 0.7   on   7 of   7 obs.
-------------------------------------------
*  MAY  21, 1993  10h 12m 57.63± 1.19s
   28.653 S ±10.0km   70.162 W ±15.6km
   DEPTH = 147.7 ± 29.8 km
 CENTRAL CHILE                     (136)

RTRS     1.63  158 ePd    13 28.00   -0.7
RTBS     3.06  169 e(P)d  13 48.10    1.9
ZON      3.16  156 eP     13 56.00    8.5X
RTCV     3.49  157 e(P)   13 52.50    0.6
RTPR     3.58  118 e(P)   13 53.20    0.2
CYA      3.85   88 iPc    13 55.40   -1.2
                    S      14 43.60
MDZ      4.37  165 e(P)   14 07.20    3.8X
FSA      4.49   56 eP     14 05.60    0.6
PEL      4.50  186 eP     14 04.00   -1.2
                    eS     15 01.00
TCA      5.52  120 iPc    14 19.00    0.1
                    S      15 25.00
RFA      6.27  167 eP     14 28.60   -0.4
CNCB    11.95   10 P      15 45.00    0.1
LPB     12.21    9 eP     15 54.00    5.8X
     S.D. = 1.1   on  10 of  13 obs.
-------------------------------------------
?  MAY  21, 1993  10h 35m 49.14± 4.44s
   42.070 N ±41.1km   24.800 E ±11 4km
   DEPTH =  10.0km  (geophysicist)
 BULGARIA                          (359)

SRS      1.31  224 ePb    36 12.50   -0.9
                    eSb    36 31.70
ALN      1 50  141 ePb    36 15.86   -0.2
                    eSb    36 36.70
SOH      1.65  222 ePb    36 18.60    0.2
                    eSb    36 41.06
KNT      1.69  238 ePb    36 19.60    0.7
                    eSb    36 41.86
OUR      1.84  200 ePb    36 22.02    1.0
                    eSb    36 46.94
PAIG     2.30  202 ePn    36 28.20    0.5
     S.D. = 0.9   on   6 of   6 obs.
-------------------------------------------
?  MAY  21, 1993  10h 53m 02.45±10.09s
     7.024 S ±63.6km  130.663 E ±148.km
   DEPTH = 165.0 ± 19.4 km
   4.1mb (  1 obs.)
 TANIMBAR ISLANDS REG., INDONESIA(281)

SLKI     1.14  147 iPc    53 30.40    0.3
                    iS     53 48.00
TLE      2.49   57 iPd    53 44.50   -0.1
                    iS     54 12.50
MTN      5.80  175 eP     54 27.00   -0.5
        0.3s     85.00nm              5.4mb X
                    eS     55 31.00
WB2     13.33  165 eP     56 06.00   -0.5
                    eS     58 25.60
ASPA    16.84  170 iPc    56 50.90    0.8
        0.7s      6.80nm              4.1mb
                    eS     59 51.60
     S.D. = 1.2   on   5 of   5 obs.
-------------------------------------------
%  MAY  21, 1993  11h 03m 04.33± 1.78s
   41.078 N ±15.9km   23.666 E ± 8.7km
   DEPTH =  10.0km  (geophysicist)
 GREECE-BULGARIA BORDER REGION     (363)

THE      0.69  230 ePg    03 17.80   -0.2
OUR      0.78  162 ePg    03 19.30   -0.2
PAIG     1.15  179 ePb    03 26.00    0.2
                    eSb    03 43.00
LIT      1.32  223 ePb    03 29.00    0.2
                    eSb    03 48.40
ALN      1.81   95 ePb    03 35.80    0.0
     S.D. = 0.3   on   5 of   5 obs.
-------------------------------------------
?  MAY  21, 1993  11h 43m 14.05± 0.94s
   39.133 N ± 7.7km   27.544 E ± 9.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.7 (ISK).

IZM      0.77  197 ePg    43 29.00    0.0
                    eSg    43 39.00
DST      0.96   60 ePg    43 32.50    0.1
                    eSg    43 47.50
EZN      1.17  307 ePn    43 36.00    0.1
KGT      1.33  352 iPn    43 38.40   -0.2
     S.D. = 0.2   on   4 of   4 obs.
-------------------------------------------
?  MAY  21, 1993  11h 55m 17.20± 1.06s
   39.464 N ± 9.0km   22.735 E ±12.6km
   DEPTH =  10.0km  (geophysicist)
 GREECE                            (364)

AGG      0.54  216 ePg    55 28.10   -0.1
                    eSg    55 37.10
LIT      0.66  344 ePg    55 31.00    0.6
                    eSg    55 41.50
PAIG     0.86   57 ePg    55 34.08    0.3
THE      1.18    9 ePb    55 38.40   -0.8
     S.D. = 1.0   on   4 of   4 obs.
-------------------------------------------
?  MAY  21, 1993  12h 27m 39.47± 9.67s
   38.535 N ±62.5km   20.295 E ±52.2km
   DEPTH =  10.0km  (geophysicist)
 GREECE                            (364)

IGT      1.00    2 ePg    27 57.90   -0.5
                    eSg    28 12.56
AGG      1.66   72 ePb    28 08.90    0.1
                    iSb    28 32.48
LIT      2.31   47 ePn    28 18.28    0.1
FNA      2.40   20 ePn    28 19.80    0.4
OHR      2.60    8 ePn    28 22.80    0.5
SOH      3.28   45 ePn    28 32.68    0.6
VAY      3.29   31 ePn    28 27.50   -4.5X
OUR      3.37   57 iPn    28 32.88   -0.3
     S.D. = 0.5   on   7 of   8 obs.
-------------------------------------------
?  MAY  21, 1993  12h 32m 27.85± 5.01s
   21.557 S ±35.5km  173.907 W ±57.6km
   DEPTH =  33.0km  (normal)
   4.5mb (  6 obs.)
 TONGA ISLANDS                     (173)

DZM     18.25  265 iPc    36 41.60    1.1
URZ     18.36  203 P      36 39.40   -2.1
ORZ     22.39  208 P      37 25.90    1.2
LTZ     24.12  205 eP     37 43.80    2.2
ARMA    32.11  247 iPd    38 54.00   -0.5
        0.6s      6.00nm              4.7mb
CTA     37.20  265 iPc    39 38.00    0.0
        0.8s      7.46nm              4.6mb
OLP     38.42  254 eP     39 47.90   -0.4
STK     40.81  246 eP     40 07.10   -0.9
        0.4s      2.10nm              4.2mb
ASPA    48.01  257 eP     41 06.00    0.0
        1.1s      5.60nm              4.5mb
WB2     48.23  262 iPc    41 03.90   -3.8X
        0.3s      3.40nm              4.9mb
WRA     48.24  262 P      41 07.30   -0.5
        0.8s      1.40nm              4.0mb
     S.D. = 1.4   on  10 of  11 obs.
-------------------------------------------
?  MAY  21, 1993  12h 35m 40.86±11.17s
   43.023 N ±91.9km   23.810 E ±23.0km
   DEPTH =  10.0km  (geophysicist)
 BULGARIA                          (359)

SRS      1.91  185 ePn    36 14.20    0.4
                    eSn    36 43.30
VAY      1.93  209 ePn    36 08.30   -5.8X
KNT      1.98  200 ePn    36 14.88    0.1
SKO      2.04  240 ePn    36 26.00   10.3X
SOH      2.23  189 ePn    36 17.96   -0.4
THE      2.47  195 ePn    36 21.78    0.0
OUR      2.69  177 ePn    36 25.00    0.1
                    eSn    37 02.60
ALN      2.70  141 ePn    36 25.08    0.0
PAIG     3.10  182 ePn    36 30.50   -0.1
     S.D. = 0.3   on   7 of   9 obs.
-------------------------------------------
?  MAY  21, 1993  12h 41m 13.62± 5.80s
   41.484 N ±42.9km   23.103 E ± 8.3km
   DEPTH =  10.0km  (geophysicist)
 GREECE-BULGARIA BORDER REGION     (363)

KNT      0.36  206 ePg    41 21.06    0.1
                    eSg    41 27.50
```

21d 12h

SRS	0.52	135	ePg	41 23.90	-0.3
			eSg	41 33.60	
SOH	0.69	164	iPg	41 26.94	-0.4
			eSg	41 39.50	
GRG	0.75	225	ePg	41 28.22	-0.1
			eSg	41 38.62	
OUR	1.33	150	ePb	41 38.70	0.6

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

---

* MAY 21, 1993 13h 42m 56.72± 0.76s
24.362 S ± 7.1km 67.062 W ±13.2km
DEPTH = 202.4 ± 9.7 km
4.1mb (1 obs.)
CHILE-ARGENTINA BORDER REGION (127)

SLA	1.47	105	iPd	43 31.40	0.5
			S	43 55.80	
HJA	1.90	53	iPd	43 35.00	0.3
FSA	1.96	151	iPd	43 36.30	1.0
			S	44 02.50	
YJA	2.61	34	iPd	43 43.00	0.1
CCH	7.00	7	eP	44 38.00	0.0
CNCB	7.56	353	P	44 45.80	0.0
			S	46 11.00	
RTCV	7.58	190	ePc	44 44.70	-0.8
LPB	7.85	353	P	44 46.20	-3.3X
SIV	10.05	35	P	45 15.20	-2.3
RFA	10.44	186	ePd	45 21.70	-0.9
PPD	14.67	84	eP	46 16.60	0.6
VAO	18.46	90	eP	46 59.50	-0.3
			i	47 01.00	
LRM	81.10	330	eP	54 54.20	3.5X
YKA	94.44	340	eP	55 56.00	1.8
	0.6s		0.90nm	4.1mb	
WRA	131.28	207	PKP	01 51.50	4.6X
	0.8s		0.30nm		

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

% MAY 21, 1993 13h 53m 30.32± 0.95s
44.298 N ± 5.6km 7.833 E ±10 3km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.0 (LDG).

SBF	0.52	214	Pg	53 40.80	-0.1
			Sg	53 47.20	
FRF	1.13	230	Pg	53 51.20	-0.3
			Sg	54 05.80	
LMR	1 36	225	Pg	53 55.40	0.1
			Sg	54 11.90	
LRG	1.36	232	Pg	53 55.60	0.4
			Sg	54 12.20	
LPG	1.42	328	Pg	53 56.50	0.0
LPL	1.45	328	Pg	53 56.70	-0.1
			Sg	54 13.80	
PGF	1.94	154	Pn	54 03.80	0.0
			Sn	54 25.90	

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

& MAY 21, 1993 16h 26m 23.16s
62.896 N 150.551 W
DEPTH = 93.6km
CENTRAL ALASKA (1)
<AEIC>.

HUR	0.43	78	eP	26 37.69	-0.3
			eS	26 48.61	
TRF	0.57	12	iP	26 39.10	-0.2
			eS	26 51.27	
RND	0.93	56	iP	26 42.20	-0.5
			eS	26 56.13	
SKT	1.03	207	iP	26 43.37	-0.3
			eS	26 59.58	
MCK	1.11	40	eP	26 44.66	-0.1
			eS	27 01.77	
PWA	1.29	166	P	26 47.00	0.2
			S	27 06.10	
GHO	1.36	145	eP	26 47.81	0.0
			eS	27 07.58	
SUA	1.44	184	eP	26 48.73	-0.1
PLRM	1.47	152	eP	26 48.90	-0.1
PMR	1.47	152	eP	26 47.80	-1.2
SML	1.50	136	iP	26 49.51	-0 1
PMS	1.72	164	P	26 52.70	0.3
			S	27 14.30	
CGLM	1.74	204	iP	26 52.10	-0.5
CRP	1.80	206	iP	26 53.17	-0.4
CPAM	1.81	205	iP	26 53.29	-0.3
NEA	1.81	21	iP	26 52.65	-0.9
			eS	27 13.92	
CP2	1.82	207	iP	26 53.57	-0.3
SCM	1.84	124	eP	26 53.36	-0.7
CKN	1.85	205	eP	26 54.15	0.1
BGL	1.85	209	eP	26 54.66	0.5
SPU	1.86	203	iP	26 53.73	-0.5
CKT	1.87	205	eP	26 54.17	-0.2
CKL	1.90	207	iP	26 54.64	-0.2
WRH	1.92	34	eP	26 54.89	-0.1
CCB	2.14	34	eP	26 57.00	-0.8
PTE	2.16	160	eP	26 57.88	-0.3
			eS	27 23.04	
NKA	2.19	189	eP	27 01.61	3.2
HDA	2.21	45	eP	26 57.80	-1.0
MDM	2.31	25	eP	26 59.44	-0.8
PAX	2.33	86	eP	27 00.18	-0.3
			eS	27 28.93	
SDG	2.34	97	eP	27 00.31	-0.3
			eS	27 30.03	
FBA	2.35	30	eP	26 59.91	-0.8
SLKM	2.40	176	iP	27 02.09	0.6
MPA	2.48	166	eP	27 02.64	0.2
			eS	27 30.17	
RDT	2.49	202	eP	27 03.19	0.5
TTA	2.50	273	eP	27 01.42	-1.4
GLM	2.52	32	eP	27 02.08	-1.0
DFR	2.53	205	iP	27 03.69	0.5
TZL	2.53	107	eP	27 03.13	0.0
KLU	2.59	121	eP	27 02.49	-1.5
NCT	2.60	207	iP	27 04.65	0.4
RDW	2.65	205	eP	27 05.63	0.7
VLZ	2.66	130	eP	27 03.26	-1.6
SVW	2.99	235	P	27 09.80	0.3
HIN	3.17	141	eP	27 10.01	-1.9
CNPM	3.40	186	eP	27 14.72	-0.3
GLB	3.48	112	eP	27 14.75	-1.5
SGAM	3.50	131	eP	27 15.54	-0.9
OPT	3.50	203	P	27 18.10	1.6
PDB	3.58	211	eP	27 17.09	-0.4
AUL	3.79	203	P	27 22.50	2.0
CROM	4.12	118	eP	27 23.34	-1.8
TGL	4.24	117	eP	27 24.69	-2.1
CDD	4.26	202	eP	27 26.64	-0.3
BALM	4.30	112	iP	27 25.25	-2.3
FYU	4.33	29	eP	27 27.81	-0.1
SYI	4.39	193	eP	27 28.01	-0.7
CTGM	4.77	110	eP	27 32.30	-1.8
YAH	4.91	117	eP	27 32.30	-3.8

59 obs. associated

? MAY 21, 1993 16h 28m 22.99± 4.03s
28.248 S ±30.9km 68.953 W ±24.3km
DEPTH = 120.0km (geophysicist)
LA RIOJA PROVINCE, ARGENTINA (138)

CYA	2.79	95	ePc	29 07.30	0.1
			S	29 41.20	
RTPR	2.96	134	e(P)	29 10.00	0.7
RTLL	3.10	172	iPc	29 11.20	-0.1
			S	29 49.00	
RTCB	3.23	178	eP	29 12.80	-0.3
			(S)	29 51.00	
CFA	3.40	170	eP	29 15.20	-0.2
			(S)	29 55.70	
RTBS	3.43	187	e(P)d	29 16.00	0.3
TCA	4.88	130	ePd	29 34.50	-1.0
			S	30 29.50	
MRA	5.01	147	ePd	29 37.80	0.7

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

MAY 21, 1993 16h 47m 06.08± 0.38s
39.796 N ± 3.6km 28.947 E ± 3.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 3.0 (ISK)

DST	0.31	232	iPg	47 12.80	0.2
KCT	0.64	315	iPg	47 18.80	-0.1
			eSg	47 28.80	
YLV	0.84	23	iPg	47 21.90	-0.4
			iSg	47 35.00	
BNT	0.97	306	iPn	47 24.30	-0.2
EDC	1.00	304	ePn	47 25.50	0 5
GPA	1.16	64	ePn	47 28.00	0.3
HRT	1.16	28	iPn	47 28.00	0.2
ALT	1.17	129	ePn	47 28.20	0.3
EYL	1.21	50	iPn	47 28.30	-0.3
CTT	1.41	344	iPn	47 32.20	0.5
KGT	1.42	298	iPn	47 31.30	-0.6
KHL	1.54	163	ePn	47 33.30	-0.4
IZM	1.91	224	ePn	47 39.00	-0.1

S.D. = 0.4 on 13 of 13 obs.

& MAY 21, 1993 17h 11m 09.27s
66.883 N 147.330 W
DEPTH = 10.0km (geophysicist)
NORTHERN ALASKA (676)
<AEIC>. ML 3.0 (AEIC).

FYU	0.89	110	iP	11 26.25	-0.1
			S	11 37.95	
GLM	1.90	181	eP	11 41.00	-1.1
			eS	12 07.04	
MDM	1.97	191	eP	11 41.71	-1.3
			eS	12 09.76	
FBA	2.00	186	eP	11 41.99	-1.5
			eS	12 08.76	
CCB	2.25	185	eP	11 46.77	-0.4
			eS	12 16.34	
NEA	2.43	198	eP	11 47.99	-1.6
WRH	2.44	188	eP	11 48.76	-1.0
			eS	12 22.00	
HDA	2.49	176	eP	11 50.21	-0.3
			eS	12 23.58	
IMA	2.68	255	eP	11 52.25	-1.0
			eS	12 33.60	
MCK	3.24	193	eP	11 59.82	-1.3
PMR	5.37	189	(P)	12 16.63	-14.7

11 obs. associated

& MAY 21, 1993 17h 48m 12.00s
36.103 N 117.696 W
DEPTH = 0.8km
CALIFORNIA-NEVADA BORDER REGION (40)
<PAS-P>. ML 2.9 (PAS), 3.0 (GS).

RCWM	0.16	165	P	48 15.22	0.1
VPEM	0.18	213	P	48 15.75	0.1
NMC	0.31	213	P	48 18.19	0.0
WCHM	0.38	235	P	48 19.34	-0.2
WSHM	0.50	160	P	48 21.98	0.0
WLHM	0.50	276	P	48 21.64	-0.4
WORM	0.60	228	P	48 23.46	-0.5
WBSM	0.67	213	P	48 24.90	-0.5
ISA	0.77	235	ePc	48 26.59	-0.8
			eS	48 36.78	
WASM	0.79	243	P	48 27.07	-0.7
WJPM	0.94	223	P	48 29.77	-1.0
GSC	1.08	138	ePd	48 32.04	-1.2
			eS	48 47.27	
BHPR	1 35	332	P	48 37.54	-0.5
CWCR	1.47	341	P	48 39.30	-0.6
ORC	1.71	334	P	48 44.70	1.3
MARC	1.73	231	P	48 44.59	1.1
CLKR	1.74	329	P	48 44.88	1.1
ABL	1.76	225	ePn	48 43.62	-0.5
MCSM	1.83	328	P	48 46.52	1.4
MEMM	1.85	328	ePn	48 45.16	0.0
CRGC	1.86	243	P	48 46.49	1.1
SSK	1.89	180	ePn	48 45.54	-0.3
			eS	49 13.83	
PHBM	1.94	275	P	48 47.97	1.6
YEG	1.96	251	P	48 48.00	1.2
TNP	2.01	11	ePn	48 47.70	0.0
BCH	2.15	245	ePn	48 49.65	0.0
PEC	2.25	169	eP	48 49.89	-1.1
SCCM	2.33	241	P	48 54.02	1.9
PLM	2.83	166	eP	48 59.71	0.3
CMB	2.89	313	ePn	49 01.20	1.1
			eS	49 41.11	
ARN	3.32	293	eP	49 07.99	1.7
ARUT	3.80	62	(Pn)	49 14.27	1.0
			ePg	49 23.23	
GLA	3.86	141	ePn	49 10.91	-2.9
			S	50 15.05	

33 obs. associated

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* MAY 21, 1993 18h 26m 47.64± 1.93s
31.294 S ±16.3km 68.344 W ±15.5km
DEPTH = 104.2 ± 19.4 km
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.11	251	ePc	27 02.00	-0.7
CFA	0.33	164	iPc	27 03.70	0.6
			(S)	27 31.20	
ZON	0.38	229	iPd	27 03.30	-0.1
			eS	27 14.30	
RTCB	0.43	244	iPd	27 03.80	0.0
RTBS	1.02	249	e(P)c	27 09.10	0.3
RTPR	1.86	58	ePd	27 19.10	0.1
RFA	3.47	182	ePc	27 40.50	-0.2
			(S)	28 20.30	

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

MAY 21, 1993 18h 57m 17.29± 0.50s
38.501 N ± 8.5km 74.841 E ± 7.5km
DEPTH = 33.0km (normal)
4.1mb (9 obs.)
TAJIKISTAN-XINJIANG BORDER REG. (719)

QUE	10.54	221	eP	59 50.10	0.7
MAIO	12.40	265	eP	00 13.00	-1.4
			eS	02 43.00	
GKN	13.29	139	P	00 26.80	0.6
KKN	13.79	138	P	00 32.40	-0.6
DMN	13.85	139	P	00 34.20	0.5
GUN	14.02	136	P	00 32.00	-4.1X
PKI	14.04	138	P	00 35.00	-1.3
LZH	23.16	87	eP	02 22.50	0.6
	1.5s	16.00nm		4.3mb	
HFS	43.43	320	eP	05 17.60	-0.7
	0 4s	2.40nm		4.3mb	
GEC2	44.31	304	P	05 27.50	1.8
	0.7s	0.46nm		3.4mb	
			e	05 30.60	
			e	05 33.40	
NB2	44.67	322	P	05 28.20	-0.2
	0.6s	0.90nm		3.8mb	
EKA	52.99	316	P	06 36.00	3.3X
	1 1s	6.50nm		4.5mb	
BCAO	61.21	251	ePc	07 32.00	0.6
	0.7s	3.00nm		4.5mb	
MBC	65.17	4	eP	07 56.50	-0.2
	0.5s	2.00nm		4.5mb	
YKA	79.06	4	eP	09 18.80	-0.4
	0 6s	0.40nm		3.6mb	
WRA	80.54	125	P	09 17.90	-9.9X
	1.0s	0.40nm		3.4mb	

S.D. = 1.0 on 13 of 16 obs.

MAY 21, 1993 19h 01m 03.68± 0.61s
38.095 N ± 6.8km 14.193 E ± 4.7km
DEPTH = 10.0km (geophysicist)
SICILY (398)
MD 2.8 (ROM).

GIB	0.17	231	P	01 05.80	-1.8
			eSg	01 06.70	
MNO	0.43	112	P	01 12.20	-0.3
			eSg	01 20.40	
FAI	0.91	207	P	01 23.30	2.1
ATN	1.00	86	P	01 23.20	0.5
			eSg	01 39.00	
MEU	1.15	149	P	01 23.90	-1.4
			eSg	01 39.40	
CVT	1.18	250	P	01 26.50	0.8
PZI	1.21	151	P	01 25.85	-0.4
ERC	1.27	268	P	01 27.20	-0.1
GMB	1.32	86	P	01 28.72	0.6
SOI	1.47	90	P	01 31.30	1.1
CZI	1.89	53	P	01 35.70	-0.5
GRI	1.89	67	P	01 36.11	-0.2
MGR	2.30	27	P	01 41.70	-0.5

S.D = 1.1 on 13 of 13 obs.

MAY 21, 1993 19h 09m 21.88± 0.37s
44.117 N ± 3.1km 7.833 E ± 2.9km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.4 (LDG), 2.4 (GEN).

ROB	0.18	9	P+	09 26.43	0.5
			S	09 29.44	
IMI	0.21	169	Pd	09 26.32	-0.2
			S	09 28.94	
SAOF	0.24	237	Pg	09 26.86	-0.1
			Sg	09 30.09	
FIN	0.29	71	Pc	09 27.84	0.0
			S	09 32.01	
AUTN	0.32	248	Pg	09 28.66	0.1
			Sg	09 32.33	
ENR	0.32	290	Pc	09 28.42	-0.1
			S	09 32.97	
SBF	0.38	229	Pg	09 29.77	0.0
			Sg	09 35.16	
STV	0.39	289	Pc	09 29.62	-0.2
			S	09 34.80	
AURF	0.43	238	Pg	09 30.48	-0.2
			Sg	09 37.00	
TOUF	0.43	256	Pg	09 30.91	0.1
			Sg	09 36.74	
PZZ	0.65	307	P	09 34.80	-0.2
			S	09 43.22	
PCP	0.66	50	P	09 35.07	-0.1
			S	09 43.28	
BHB	0.83	331	P	09 37.78	-0.2
			S	09 48.33	
FRF	1.02	237	Pg	09 41.40	0.2
			Sg	09 54.70	
LMR	1.24	231	Pn	09 44.70	-0.2
			Pg	09 45.10	
			Sg	10 01.10	
LRG	1.26	239	Pg	09 45.90	0.7
			Sg	10 01.70	
PGF	1.78	151	Pn	09 50.70	-2.4X
			Sn	10 11.10	

S.D. = 0.3 on 16 of 17 obs.

& MAY 21, 1993 19h 12m 15.03s
37.163 N 117.728 W
DEPTH = 2.2km
CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. MD 3.2 (GM). ML 3.6
(BRK), 3.0 (GS).

CWCR	0.57	306	P	12 26.35	0.0
BCKR	0.74	316	P	12 29.61	-0.2
ORC	0.88	303	P	12 32.12	-0.6
BONR	0.91	330	ePn	12 33.09	-0.4
TNP	1.00	24	iPc	12 35.59	0.7
MCSM	1.06	298	P	12 35.52	-0.4
MEMM	1.09	298	ePc	12 36.01	-0.2
			eS	12 48.83	
WCHM	1.31	192	P	12 41.31	1.2
WORM	1.52	196	P	12 44.34	1.0
WSHM	1.54	173	P	12 44.40	0.8
FRI	1.59	264	iPc	12 44.51	0.2
			eS	13 05.52	
ISA	1.61	202	ePn	12 44.68	0.0
			eS	13 05.66	
WBSM	1.66	192	P	12 46.90	1.5
KVN	1.91	351	ePn	12 50.07	1.0
			eS	13 16.76	
GSC	2.00	158	ePn	12 50.47	0.2
			eS	13 20.94	
PHBM	2.10	245	P	12 54.02	2.4
ARVC	2.22	204	P	12 56.90	3.5
MSTM	2.25	290	P	12 56.45	2.6
CMB	2.28	293	iPc	12 56.54	2.2
			ic	12 57.32	
			iS	13 25.64	
			i	13 26.19	
CMB	2.28	293	ePn	12 53.34	-1.0
			ePg	12 56.52	
			eS	13 24.77	
MCUM	2.43	290	P	12 59.34	2.9
CRGC	2.51	221	P	13 01.04	3.5
BMSM	2.51	259	P	12 59.52	2.0
MARC	2.52	212	P	13 01.51	3.8
PHAM	2.53	239	(Pn)	12 57.29	-0.5
PRI	2.57	248	eP	12 59.93	1.4
			eS	13 36.33	
ABL	2.61	208	ePn	12 59.95	0.9
			ePg	13 02.82	
			eS	13 37.25	
LLA	2.63	259	eP	13 01.70	2.4
BCH	2.74	225	ePn	13 01.76	0.8
EKH	2.81	261	P	13 04.65	2.9
LRC	2.82	252	P	13 04.40	2.5
SSK	2.95	179	(Pn)	13 04.09	0.2
GHS	2.97	270	P	13 07.30	3.1
SAO	3.00	264	(Pn)	13 03.54	-1.0
			eS	13 48.30	
CMMM	3.02	277	P	13 09.75	4.9
PRS	3.04	255	iPc	13 06.35	1.3
ARN	3.04	275	eP	13 06.34	1.2
			eS	13 48.13	
MHC	3.13	274	ePc	13 08.41	2.0
			eS	13 50.49	
PEC	3.30	172	(Pn)	13 09.16	0.4
ARUT	3.47	78	(Pn)	13 11.17	-0.1
			ePg	13 21.79	
ORV	3.81	310	(P)	13 14.33	-1.7
PLM	3.87	169	(P)	13 17.50	0.5
NTYM	4.10	289	(P)	13 18.72	-1.3
HVU	5.99	38	(Pn)	13 48.43	1.4

44 obs. associoted

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* MAY 21, 1993 21h 18m 10.29± 0.77s
29.460 N ± 8.3km 142.703 E ±17.0km
DEPTH = 33.0km (normal)
4.2mb (7 obs.)
SOUTH OF HONSHU, JAPAN (211)

KAKJ	7.05	343	P	19 53.60	-0.3
CHJJ	7.27	336	P	19 57.00	0.1
MAT	8.01	333	eP	20 07.00	-0.2
	0.7s	6.85nm		4.9mb X	
			(S)	21 36.00	
NIIJ	8.35	339	P	20 10.60	-1.4
YAMJ	8.97	346	P	20 18.80	-1.7
OFUJ	9.63	355	P	20 25.20	-4.5X
			S	22 08.40	
GUN	49.44	283	P	27 00.40	0.6
WB2	49.77	190	iPd	27 00.50	-1 3
	1.1s	4.60nm		4.4mb	
WRA	49.77	190	P	27 00.50	-1 3
	0.7s	1.80nm		4.2mb	
KKN	49.99	283	P	27 04.20	0.4
GKN	50.47	283	P	27 07.80	0.4
INK	60.70	25	eP	28 21.50	1.2
	0.5s	1.00nm		4.2mb	
YKA	69.85	29	eP	29 18.90	-0.5
	0.6s	1.10nm		4.1mb	
KAF	75.55	334	iP	29 54.30	1.3
	0.4s	1.10nm		4.2mb	
NUR	77.16	333	eP	30 03.40	1.4
	0.4s	1.20nm		4.3mb	
NB2	81.59	338	P	30 27.10	1.2
	0.6s	1.70nm		4.2mb	

S.D. = 1.2 on 15 of 16 obs.

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* MAY 21, 1993 22h 04m 13.19± 0.96s
12.820 N ±13.4km 144.205 E ±13.5km
DEPTH = 10.0km (geophysicist)
4.3mb (2 obs.)
SOUTH OF MARIANA ISLANDS (210)

GUA	0.99	44	iPc	04 32.00	0.0
			eS	04 44.80	
GUMO	1.00	40	iPc	04 32.00	-0.1
			eS	04 44.40	
PJG	1.00	40	iP	04 32.00	-0.1
MAT	24.23	348	eP	09 32.00	0.9
WB2	33.97	197	iPc	10 59.30	0.1
	0.6s	1.30nm		4.0mb	
LZH	43.00	310	eP	12 14.00	-0.7
	1.5s	16.00nm		4.5mb	

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

& MAY 21, 1993 22h 38m 04.38s
34.622 N 116.669 W
DEPTH = 7.4km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 2.9 (PAS), 2.5 (GS).

GSC	0.69	351	ePd	38 17.02	-1.1
PEC	0.83	209	eP	38 19.51	-1.3
			eS	38 30.34	
SSK	0.94	244	eP	38 21.54	-1.1
			eS	38 34.18	
PLM	1.28	187	ePn	38 26.49	-1.9
			ePg	38 27.59	
			eS	38 44.11	
ISA	1.81	306	(P)	38 40.75	4.6
			eS	39 00.75	
ABL	2.11	277	ePn	38 40.57	-0.2
GLA	2.19	135	ePn	38 41.77	0.0
			eS	39 13.92	
TPNV	2.35	8	(Pn)	38 43.95	-0.1
BONR	3.58	339	(Pn)	39 00.36	-1.3

9 obs. associated

21d 23h

? MAY 21, 1993 23h 00m 53.88± 4.18s
19.804 S ±48.2km 67.679 W ±13.0km
DEPTH = 230.0km (geophysicist)
SOUTHERN BOLIVIA (125)

CCH	2.82	32	P	01	44.30	0.4
CNCB	2.99	354	iPc	01	46.00	-0.1
			i	02	21.00	
LPB	3.28	353	iPc	01	49.00	-0.2
ARE	4.92	312	eP	02	09.00	0.1
			iS	03	00.50	
SIV	7.34	60	P	02	39.30	-0.2

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

? MAY 21, 1993 23h 49m 32.27± 1.75s
42.900 N ±19.5km 0.931 W ± 8.4km
DEPTH = 10.0km (geophysicist)
PYRENEES (378)
mbLg 3.0 (MDD).

EGRA	0.84	147	eP	49	49.00	0.6
			eS	50	04.90	
ECRI	1.20	256	eP	49	55.00	0.3
			eS	50	14.80	
ETOR	2.24	202	eP	50	09.40	-0.7
ETER	2.86	101	eP	50	18.50	-0.2
			eS	50	52.30	

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

& MAY 22, 1993 00h 18m 15.34s
59.819 N 153.461 W
DEPTH = 136.1km
SOUTHERN ALASKA (2)
<AEIC>.

OPT	0.20	145	iP	18	33.39	0.8
			eS	18	47.35	
INW	0.30	33	iP	18	33.56	0 6
INE	0.31	39	eP	18	33.65	0.5
			eS	18	48.49	
PDB	0.37	265	iP	18	33.65	0.5
			eS	18	47.82	
AUL	0.44	178	iP	18	34.27	-0.7
AUW	0.45	181	iP	18	34.30	-0.8
AUH	0.46	179	iP	18	34.41	-0.8
AUE	0.46	174	iP	18	34.31	-0.8
AUI	0 49	178	eP	18	34.33	-0.9
RDW	0.74	26	iP	18	36.20	-1.0
MCNL	0.78	215	iP	18	36.16	-1.0
			eS	18	52.06	
NCT	0.79	19	iP	18	36.54	-0.9
			eS	18	53.24	
DFR	0.87	26	eP	18	37.04	-1.0
			eS	18	54.13	
CDD	0.90	186	iP	18	37.13	-1.1
			eS	18	53.39	
XLV	0.96	112	eP	18	37.75	-0.9
CNPM	1.17	104	iP	18	39.42	-1.3
			eS	18	57.34	
BRLK	1.30	91	iP	18	40.90	-1.2
			eS	18	59.93	
SYI	1.33	155	iP	18	41.02	-1.3
			eS	19	01.07	
NKA	1.44	49	iP	18	44.36	0.8
CKL	1.49	21	iP	18	43.51	-0.7
CKT	1.52	24	iP	18	43.62	-0.9
SPU	1.53	26	iP	18	43.68	-1.0
BGL	1.54	20	iP	18	44.29	-0.5
CP2	1.57	22	ePd	18	44.43	-0.8
CPAM	1.58	24	eP	18	44.72	-0.5
CRP	1.59	23	ePd	18	44.09	-1.3
CGLM	1.66	25	iP	18	45.29	-0.8
SVW	1.68	321	(P)	18	45.96	-0.3
SLKM	1.76	65	eP	18	45.65	-1.6
SEW	2.04	80	eP	18	49.03	-1.4
SUA	2.13	38	iP	18	50.58	-1.1
KDC	2.14	166	eP	18	48.25	-3.5
MPA	2.16	70	eP	18	50.64	-1.3
PMS	2.40	52	P	18	53.50	-1.6
PTE	2.44	63	eP	18	53.69	-1.8
PWA	2.54	42	P	18	56.00	-0.8
GHO	2.96	47	eP	19	01.57	-0.8
SML	3.21	49	eP	19	04.76	-0.8
HIN	3.53	78	eP	19	07.75	-2.0
SCM	3.62	53	eP	19	08.76	-2.2
VLZ	3.77	66	eP	19	10.50	-2.3
CVA	3.92	76	eP	19	12.58	-2.3
TRF	3.95	21	eP	19	13.68	-1.8
KLU	4.07	62	eP	19	12.25	-4.8
BALM	5.64	73	eP	19	35.69	-2.5

45 obs. associated

• MAY 22, 1993 00h 51m 38.38± 0.56s
7.768 S ±12.1km 104.443 E ± 9.0km
DEPTH = 33.0km (normal)
4.9mb (10 obs.)
SOUTHWEST OF SUMATERA, INDONESIA(273)

LEM	3.29	74	iPc	52	30.00	1.1
			iS	53	20.00	
KHKI	11.07	94	eP	54	13.00	-4.6X
			eS	56	07.00	
			e	57	21.00	
WB2	31.39	116	iPc	57	57.60	-1.2
	0.4s		8.10nm		4.9mb	
GBA	34.20	308	P	58	24.00	0.8
PKI	39.67	333	P	59	08.80	-0.8
GUN	39.75	334	P	59	09.80	-0.5
	0.6s		19.00nm		5.0mb	
DMN	39.84	333	P	59	10.60	-0.3
KKN	39.91	333	P	59	10.80	-0.7
	0.6s		12.00nm		4.8mb	
GKN	40.39	332	P	59	15.00	-0.3
STK	42.05	130	eP	59	28.60	-0.1
	0.4s		2.80nm		4.3mb	
LZH	43.62	359	eP	59	41.50	-0.1
	1.0s		15.00nm		4.7mb	
YAK	72.29	12	eP	03	02.00	-0.2
	1.2s		20.00nm		5.0mb	
OBN	83.98	328	iPc	04	07.10	0.6
	0 9s		16.00nm		5.2mb	
BCAO	86.55	275	iPc	04	21.20	1.0
	0.7s		9.00nm		5.1mb	
KAF	91.30	333	iP	04	42.20	0.6
	0.6s		3.60nm		4.9mb	
NUR	91.71	331	iP	04	43.70	0.2
	0.6s		2.40nm		4.8mb	
LTX	145.96	47	ePKP	11	16.11	-0.2
MIAR	148.61	29	ePKP	11	23.14	2.8X

S.D = 0.7 on 16 of 18 obs.

? MAY 22, 1993 01h 06m 10.76± 3.96s
52.481 N ±74.0km 169.949 W ±35.8km
DEPTH = 33.0km (normal)
4.5mb (5 obs.)
FOX ISLANDS, ALEUTIAN ISLANDS (9)

ADK	4.19	264	eP	07	14.00	0.1
INK	23.45	34	eP	11	18.00	0.5
	0.6s		1.00nm		3.5mb	
FCC	41.14	50	eP	14	02.00	9.1X
FRB	49.09	35	eP	14	56.00	-0.2
KAF	65.03	352	iP	16	49.30	0.0
	0.5s		2.70nm		4.6mb	
NUR	66.75	352	eP	17	00.40	0.1
	0.6s		4.70nm		4.8mb	
NB2	66.83	359	P	17	00.80	0.0
	0.7s		1.20nm		4.1mb	
HFS	67.70	358	eP	17	05.70	-0.6
	0.6s		3.40nm		4.6mb	

S.D. = 0.4 on 7 of 8 obs.

MAY 22, 1993 01h 27m 21.26± 0.41s
32.097 S ± 6.5km 68.293 W ± 6.8km
DEPTH = 128.2 ± 5.0 km
4.1mb (2 obs.)
MENDOZA PROVINCE, ARGENTINA (139)
MD 4.5 (SAN).

CFA	0.49	5	iPc	27	40.70	0.3
ZON	0.64	329	iPd	27	40.80	-0.5
RTCB	0.75	325	iPd	27	42.00	-0.2
RTLL	0.78	349	iPc	27	42.40	0.0
MDZ	0.91	211	iP	27	44.80	1.2
			i(S)	27	54.30	
RTBS	1.08	293	iPc	27	45.30	0.3
JACH	2.03	253	iP	27	56.28	0.2
			iS	28	22.69	
FCH	2.08	233	iPd	27	57.84	0.9
			iS	28	26.65	
RTRS	2.17	332	iPd	27	58.30	0.7
PEL	2.27	242	iPd	27	59.04	0.0
			iS	28	27.21	
PCH	2.41	230	iP	28	01.43	0.6
			iS	28	32.12	
SAN	2.41	235	iP	28	01.07	0.3
			iS	28	30.62	
ROCH	2.46	248	iP+	28	00.79	-0.8
			iS	28	29.83	
CHCH	2.70	227	iP	28	04.92	0.4
			iS	28	38.28	
TACH	2.71	234	iP	28	04.38	-0.3
			iS	28	36.75	
LCCH	3.08	243	iP	28	07.90	-1.6
			iS	28	41.49	
LNV	3.21	234	iP	28	09.28	-1.9
			iS	28	45.69	
TCA	3.24	77	iPc	28	13.10	1.3
CYA	4.23	31	iPc	28	24.20	-0.8
			S	29	03.40	
FSA	6.32	19	iP	28	53.20	0.0
SLA	7.74	19	ePc	29	12.80	0.0
CCH	14.78	8	P	30	50.00	4.6X
CNCB	15.22	1	P	30	53.20	2.0X
LPB	15.50	1	P	31	00.00	5.5X
SIV	17.33	24	P	31	15.80	-0.9
PPD	18.12	61	eP	31	25.80	-0.3
VAO	20.94	70	eP	31	53.70	-1.7
			e	31	57.70	
ALQ	75.72	328	ePc	38	55.02	0.6
	0.7s		1.93nm		4.0mb	
RSSD	82.57	335	iPc	39	32.15	1.1
	0.8s		3.48nm		4.2mb	
PKEM	83.38	320	eP	39	36.28	1.2
WRA	123.90	206	PKP	46	06.70	0.6X
	0.5s		1.40nm			

S.D. = 0.9 on 27 of 31 obs.

% MAY 22, 1993 02h 00m 41.13± 0.76s
28.136 S ± 7.4km 26.934 E ± 8.4km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.1 (PRE).

SEK	0.64	107	eP	00	53.90	0.0
			S	01	02.00	
BLF	1.17	214	eP	01	03.50	-0.1
			S	01	20.00	
PRY	1.29	22	eP	01	05.50	-0.2
			S	01	21.00	
FRS	2.14	221	eP	01	18.00	0.0
KSR	2.26	359	eP	01	16.50	-3.4X
			S	01	44.50	
SLR	2.68	27	eP	01	26.00	0.2
			S	02	06.00	

S.D. = 0.2 on 5 of 6 obs.

% MAY 22, 1993 02h 41m 29.29± 1.30s
38.649 N ± 7.6km 15.490 E ±20.7km
DEPTH = 33.0km (normal)
SICILY (398)

ATN	0.49	182	P	41	40.40	0.6
			eSg	41	54.20	
SOI	0.73	142	P	41	42.20	-0.9
			eSg	41	57.60	
CZI	0.76	41	P	41	44.40	0.9
			eS	41	59.90	
ROI	1.25	42	P	41	50.50	0.0
MGR	1.49	2	Pc	41	53.30	-0.7

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

• MAY 22, 1993 03h 03m 08.59± 1.95s
37.318 N ±20.4km 19.777 E ± 7.6km
DEPTH = 33.0km (normal)
IONIAN SEA (399)
MD 3.1 (ATH).

VLS	1.07	37	ePg	03	28.50	1.2
KEK	2.39	0	ePg	03	55.00	8.7X
AGG	2.63	49	ePg	03	57.66	7.9X
			eSg	04	11.14	
SOI	3.05	285	P	03	55.30	-0.2
			eSn	04	24.80	
LCI	3.33	335	P	03	57.40	-2.2
ROI	3.38	313	P	04	00.60	0.3
CZI	3.44	305	P	04	01.80	0.7
LIT	3.50	37	ePb	04	03.70	1.7
FNA	3.68	19	ePb	04	04.18	-0.4
			eSb	04	23.74	
OHR	3.87	12	ePn	04	04.00	-3.3X

MEU	3.88	268	P	04	06.30	-1.1
			eSn	04	48.80	
VAM	4.05	117	ePg	04	52.00	42.2X
BRT	4.08	331	P	04	11.50	1.3
			eSn	04	49.50	
GRG	4.17	29	ePn	04	10.06	-1.4
			iSn	04	35.37	
MGR	4.34	312	P	04	15.60	1.7
OUR	4.46	46	ePn	04	16.90	1.3
SOH	4.47	37	iPn	04	16.10	0.3
KNT	4.54	31	ePn	04	15.54	-1.2
			eSn	04	44.18	
VAY	4.55	28	ePn	04	15.50	-1.3
SGO	4.75	314	P	04	19.70	0.0
SRS	4.81	37	ePn	04	19.94	-0.7
HVAR	6.38	338	eP	05	43.10	60.4X
VBY	8.85	339	e(Pn)	05	28.00	10.8X
			eSn	06	43.50	
MLR	9.38	28	eP	06	03.00	38.4X

S.D. = 1.3 on 17 of 24 obs.

? MAY 22, 1993 03h 11m 37.12± 1.38s
47.410 S ±35.1km 104.235 W ±21.2km
DEPTH = 10.0km (geophysicist)
5.0mb (4 obs.) 5.3Msz (1 obs.)
SOUTHERN PACIFIC OCEAN (692)

CNCB	42.64	57	P	19	35.20	-0.8
LPB	42.80	56	P	19	39.00	1.9
LTX	76.39	1	eP	23	27.34	-0 8
MEO	81.98	5	iPd	23	57.70	-0.4
PRM	83.47	18	eP	24	05.25	-0.6
MSU	85.84	354	eP	24	18.47	0.6
TNP	85.90	350	eP	24	19.42	1.2
	1.2s	14.37nm			5.0mb	
FVM	85.91	11	eP	24	16.79	-1.2
	0.8s	9.09nm			5.0mb	
BONR	85.91	349	eP	24	19.41	1.0
DAU	87.66	355	eP	24	27.30	0.5
BW06	89.93	356	eP	24	36.20	-1.2
	1.2s	4.11nm			4.5mb	
RSSD	91.14	0	eP	24	42.85	-0.1
	0 9s	14.53nm			5.3mb	
MBC	123 76	356	ePKP	30	35.50	0.4
	1.0s	2.00nm				
GEC2	139.57	64	PKP	31	04.80	-1.2
	1.2s	0.98nm				
		e		31	08.00	
GBA	146.27	183	PKP	31	21.00	2.6X
YAK	146.69	316	ePKP	31	18.50	0.8
	1.2s	30.00nm				
	Z 21s	0.50um			5 3Msz	
NUR	148.08	47	iPKP	31	22.20	2.2X
	0.9s	12.90nm				
KAF	148.80	44	iPKP	31	24.10	3.0X
	0.9s	12.60nm				
8JI	150.15	271	ePKP	31	32.00	8.2X
OBN	154.59	58	ePKP	31	37.00	7.3X
	1.0s	18.00nm				
		e		31	43.00	

S.D. = 1.1 on 15 of 20 obs.

• MAY 22, 1993 04h 19m 20.03± 1.14s
43.513 N ±10.4km 11.329 E ± 6.4km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

FIR	0.27	349	ePg	19	27.00	1.3
			iSg	19	31.00	
PGD	0.46	38	P	19	29.10	-0.3
			eSg	19	36.30	
CRE	0.47	75	P	19	28 30	-1.3
			eSg	19	36 00	
SFI	0.56	43	P	19	30.60	-0.7
			eSg	19	41.30	
PII	0.62	290	P	19	31.70	-0.8
			eSg	19	40.50	
BDI	0.76	316	P	19	35.10	0.1
			eSg	19	46.50	
ASS	1.07	114	P	19	40.20	0.0
ARV	1.17	90	P	19	43.70	1.7
			eSg	19	59.10	

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

• MAY 22, 1993 04h 28m 34.03± 1.83s
36.545 N ±15.6km 71.179 E ±11.3km
DEPTH = 102.9 ± 21.3 km

4.4mb (8 obs.)
AFGHANISTAN-TAJIKISTAN BORD REG.(717)

MAIO	9.42	272	ePn	30	49.00	0.4
			eSn	32	22.00	
GKN	14.21	123	P	31	51.40	-0.4
DMN	14.78	123	P	31	58.60	-0.6
KKN	14.78	122	P	32	00.00	0.8
	0.6s	28.00nm			4.7mb	
PKI	15.01	123	P	32	01.00	-1.2
	0.6s	18.00nm			4.5mb	
GUN	15.12	121	P	32	04.20	0.6
	0.6s	16.00nm			4.4mb	
HYB	20.14	159	ePd	33	03.00	0.8
	1.0s	20.00nm			4.4mb	
GBA	23.52	165	Pd	33	36.00	0.4
HFS	43.12	322	eP	36	24.00	-1.3
	0.4s	1.60nm			4.1mb	
NB2	44.43	323	P	36	34.80	-1.1
	0.5s	1.30nm			4.0mb	
MBC	67.29	3	eP	39	20.00	1.0
	0.5s	1.00nm			4.0mb	
INK	73.84	9	eP	40	00.50	2.0
WB2	81.90	122	iPd	40	42.00	-1.5
	0.3s	2.90nm			4.6mb	

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

MAY 22, 1993 04h 51m 06.22± 0.93s
13.551 N ± 9.6km 91.234 W ± 6.3km
DEPTH = 48.1 ± 7.9 km
4.4mb (11 obs.)
NEAR COAST OF GUATEMALA (71)
Felt (II) at Ahuachapan, El Salvador.

TPX	1.67	324	eP	51	31.00	-2.6
			iS	51	52.00	
TME	1.88	76	iPd	51	37.00	0.4
LFU	2.07	84	iPd	51	40.20	0.9
SCX	3.44	337	eP	52	00.00	1.3
			iS	52	35.50	
OXX	6.35	304	iP	52	38.00	-1.9
			(S)	53	52.00	
IISM	8.00	313	iP	53	01.21	-1.4
			(S)	54	32.84	
IIT	8.70	310	(P)	53	14.90	2.3X
ACX	8.95	293	eP	53	14.00	-1.9
PPM	8.97	309	iP	53	17.00	0.5
			(S)	54	35.00	
IIA	9.04	309	eP	53	19.00	2.0
III	9.26	302	(P)	53	19.00	-1.2
UNM	9.55	308	iP	53	25.00	0.7
CRX	9.97	307	iP	53	32.00	1.8
MRX	11.33	304	eP	53	50.00	1.6
GOGA	21.00	18	eP	55	46.86	-1.0
	0.6s	8.46nm			4.3mb	
MEO	22.16	344	iPc	55	56.60	-3.0X
ACO	24.12	344	iPc	56	03.50	-15.1X
CEH	24.78	24	iP	56	25.80	0.8
	1.2s	15.74nm			4.4mb	
ALQ	25.36	330	iPd	56	31.35	0.7
	0.6s	9.81nm			4.5mb	
NAV	25.44	20	eP	56	30.08	-1.2
GOL	28.87	337	eP	57	01.96	-0.8
	0.7s	5.40nm			4.3mb	
PV08	29.32	331	iPd	57	07.15	0.2
PV10	29.34	331	iPd	57	06.53	-0.5
PV09	29.48	331	eP	57	08.23	-0.2
SRU	30.64	330	iPd	57	18.57	0.1
MSU	31.03	327	ePd	57	22.62	0.7
EMUT	31.32	330	eP	57	25.22	0.7
DAU	32.00	330	iPd	57	31.23	0.7
DUG	32.61	328	eP	57	36.72	1.1
	0.8s	3.04nm			4.2mb	
HVU	33.79	330	iP	57	46.96	1.1
RSNY	34 02	22	eP	57	46.86	-0.8
	0.8s	7.50nm			4.7mb	
BONR	34.19	320	iPc	57	51.66	2.1
EEO	34.53	15	eP	57	53.50	1.4
GAC	34.71	20	eP	57	52 50	-1.1
KVN	34.75	322	eP	57	55.56	1.3
ULM	36.79	355	eP	58	10.00	-1.1
LRM	36.83	335	eP	58	11.50	-0.3
			e	00	41.70	
LPB	37.63	142	P	58	19.00	0.0
CNCB	37 92	142	P	58	21.60	0.0
CCH	39 48	140	eP	58	15.00	-19.4X

DPW	40.91	332	eP	58	45.90	0.4
SIV	41.84	134	P	58	52.60	-0.8
LON	41.86	328	iPd	58	53.86	0.6
JAQ	41.99	14	eP	58	51.00	-3.2X
FCC	45.18	358	eP	59	26.00	6.1X
FR8	52.58	12	eP	00	14.00	-3.0X
	1.0s	6.00nm			4.6mb	
INK	61.08	343	eP	01	16.00	-1.3
	0.7s	1.00nm			4.1mb	
KLU	61.71	334	iPc	01	21.24	-0.5
MBC	64.45	353	eP	01	37.00	-2.5X
	0.6s	1.00nm			4.0mb	
SVW	65.94	331	iPd	01	47.74	-1.6
	0.8s	10.10nm			4.9mb	
TTA	66.63	333	eP	01	51.96	-1 8
	0.8s	3.12nm			4.4mb	
WRA	136.00	255	PKP	10	25.40	0.8
	0.7s	1.20nm				
GBA	150.78	23	PKP	10	55.00	5.1X

S.D. = 1.2 on 44 of 53 obs.

& MAY 22, 1993 04h 54m 58.64s
59.912 N 153.346 W
DEPTH = 129.1km
SOUTHERN ALASKA (2)
<AEIC>.

INW	0.19	34	iPc	55	15.82	0.7
			eS	55	29.30	
INE	0.21	44	eP	55	15.63	0.4
			eS	55	29.74	
PDB	0.45	254	iPd	55	16.57	-1 0
			iS	55	30.65	
AUL	0.53	185	iPc	55	17.33	-0 7
			eS	55	32.05	
AUH	0.55	185	iPc	55	17.49	-0.8
AUE	0.55	181	iPc	55	17.28	-0.9
			eS	55	31.62	
AUI	0.58	184	iPc	55	17.42	-0.9
			eS	55	31.77	
RS1	0.62	28	P	55	19.30	0 4
RS2	0.63	28	P	55	19.10	0.2
RDW	0.63	25	iPc	55	18.00	-0.9
NCT	0.68	17	ePc	55	18.41	-0.8
			eS	55	33.74	
DFR	0.76	25	ePc	55	18.83	-0.9
			eS	55	34.91	
MCNL	0.89	215	iPd	55	19.68	-1.0
			eS	55	35.84	
XLV	0.94	118	ePc	55	19.88	-1.3
CDD	1.00	189	iPd	55	20.65	-1.1
			eS	55	37.49	
CNPM	1.14	109	iPc	55	21.88	-1.2
			eS	55	39.67	
BRLK	1.25	96	iPc	55	23.17	-1.2
			eS	55	41.58	
NKA	1.34	51	ePc	55	26.04	0.8
CKL	1.38	21	iPd	55	25.13	-0.7
SYI	1.40	159	eP	55	24.52	-1.3
			eS	55	45.05	
CKT	1.41	23	iPd	55	25.26	-0.9
SPU	1.42	26	iPd	55	25.28	-1.0
			eS	55	46.59	
BGL	1.44	19	iPd	55	25.89	-0.5
CKN	1.44	23	iPd	55	25.75	-0.6
CP2	1.46	21	ePd	55	25.98	-0.9
CPAM	1.47	23	ePd	55	26.19	-0.6
CRP	1.48	23	ePd	55	25.53	-1.5
			eS	55	46.76	
CGLM	1.55	25	iPd	55	26.90	-0.8
SVW	1.65	318	eP	55	26.94	-1 8
SLKM	1.67	68	eP	55	27.45	-1.6
			eS	55	49.28	
SEW	1.97	83	ePc	55	31.07	-1.5
SUA	2.02	38	iPd	55	32.32	-1.0
			eS	55	58.31	
MPA	2.07	72	ePc	55	32.56	-1.3
KDC	2.22	168	eP	55	32.75	-2.9
SKT	2.26	22	iPd	55	33.21	-3.0
PMS	2.30	53	P	55	35.20	-1.6
			S	56	03.30	
PTE	2.35	64	eP	55	35.26	-2.1
PWA	2.44	43	P	55	37.90	-0.6
PLRM	2.67	49	eP	55	39.29	-2.2
PMR	2.67	49	eP	55	39.09	-2.4
			eS	56	04.69	
GHO	2.86	47	ePd	55	41.38	-2.7

22d 04h

```
SML      3.10  50 iPd   55 44.50  -2.8
TTA      3.29 338 eP    55 46.99  -2.8
HIN      3.46  79 eP    55 49.71  -2.2
SCM      3.52  54 eP    55 50.47  -2.3
HUR      3.55  28 eP    55 51.58  -1.6
MID      3.59  95 P     55 51.50  -2.1
VLZ      3.68  68 eP    55 52.43  -2.4
TRF      3.84  21 iPd   55 55.36  -1.8
CVA      3.84  77 eP    55 54.72  -2.3
KLU      3.98  63 iPd   55 56.06  -2.9
RAGM     4.36  80 eP    56 02.39  -1.7
MCK      4.37  27 eP    56 03.34  -0.8
TZL      4.41  58 eP    56 03.71  -1.0
SDG      4.59  52 eP    56 05.91  -1.3
PAX      4.87  48 ePc   56 08.65  -2.3
GLB      4.93  68 eP    56 09.05  -2.8
NEA      5.09  21 eP    56 11.39  -2.5
CROM     5.14  76 eP    56 12.73  -2.1
WRH      5.19  26 ePd   56 12.62  -2.7
CCB      5.41  26 eP    56 15.42  -2.7
HDA      5.41  31 eP    56 15.67  -2.6
BALM     5.56  74 iPc   56 18.58  -1.8
FBA      5.63  25 eP    56 18.06  -3.1
GLM      5.79  26 eP    56 20.61  -2.9
YAH      5.82  81 eP    56 22.73  -1.3
SDN      5.98 223 P     56 24.70  -1.2
CTGM     6.04  75 eP    56 25.86  -1.2
IMA      6.18 359 eP    56 27.12  -1.8
        69 obs. associated
-----------------------------------------
*  MAY  22, 1993  04h 58m 12.30± 1.24s
    3.856 S ±11.5km  146.176 E ±11.6km
   DEPTH =  93.6 ± 16.6 km
   5.1mb (  8 obs.)
 BISMARCK SEA                        (203)
      Mw 5.3 (HRV).
      CENTROID, MOMENT TENSOR        (HRV)
      Data Used: GDSN
      L.P.B.: 21S, 32C
      Centroid Location:
      Origin Time        04:58:10.0 0.5
      Lat  3 49S 0.07 Lon 145.51E 0.07
      Dep  15.0 FIX Half-duration  1.0
      Moment Tensor;   Scale 10**16 Nm
        Mrr=-1.31 0.46   Mtt=-0.70 0.54
        Mff= 2.02 0.60   Mrt=-5.04 1.49
        Mrf=-5.84 1.72   Mtf= 7.18 0.47
       Principal Axes:
        T  Val= 12.32  Plg=29  Azm=130
        N       -5.65      60       294
        P       -6.67       7        36
      Best Double Couple:Mo=9.5*10**16
       NP1:Strike=169 Dip=64 Slip= 163
       NP2:        266     75        27

MNDI     3.39 228 eP    59 05.00   0.7
PMG      5.60 170 eP    58 38.00 -56.7X
RAB      5.98  93 e(P)  59 40.00   0.0
CTA     16.13 180 iPc   02 06.00  11.1X
        1.1s      9.49nm
                  eS    05 06.00
MTN     17 35 238 eP    02 06.00  -4.0X
GUMO    17.38 356 e(P)  02 09.40  -1.0
WB2     19.71 215 iPc   02 36.90  -0.1
        0.7s     51.50nm          5.0mb
KNA     20.81 234 eP    02 47.00  -1.2
ASPA    22.99 210 iPd   03 13.90   4.2X
        0.6s     36.30nm          4.9mb
      Z  18s      2.60um          4.7Msz
                  e     05 01.70
                  eS    07 32.30
DAV     23.26 298 eP    03 12.00  -0.3
STK     28.21 188 eP    04 07.50   9.3X
        0.3s      2.20nm          4.3mb
BAG     32.34 309 eP    04 32.00  -3.1X
MRWA    38.15 225 eP    05 31.00   6.8X
KMI     51.06 307 eP    07 07.00  -0.6
        2.0s     80.00nm          5.4mb
      Z  25s      1.40um          4.9MszX
      N  15s      0.50um
                  pP    07 13.00  20kmX
                  eS    14 30.00
                  sS    14 38.00
BJI     51.64 331 eP    07 12.00   0.6
      Z  22s      0.98um          4.8Msz
                  eS    14 32.00
                  eSS   18 06.00

LZH     56.06 319 eP    07 46.50   2.3
        2.0s     30.00nm          5.0mb
      Z  25s      0.86um          4.7MszX
      E  20s      0.77um
                  pP    07 49.00   8kmX
                  eS    15 28.00
GUN     66.02 303 P     08 49.80  -2.0X
PKI     66.31 302 P     08 53.60   0.0
        0.8s     23.00nm          5.2mb
KKN     66.49 302 P     08 54.60   0.0
        0.8s     38.00nm          5.4mb
DMN     66.58 302 P     08 55.80   0.6
GKN     67.09 302 P     08 57.40  -1.0
        0.8s     48.00nm          5.5mb
GBA     70.36 286 P     09 24.00   5.6X
BCAO   127.78 273 ePKPd 17 18.00   8.4X
        0.6s      3.00nm
KIC    150.93 276 PKP   18 01.40  10.7X
LIC    151.22 276 PKP   18 01.80  10.7X
      Z  22s      0.08um          4.5Msz
      S.D. = 1.1  on  13 of  25 obs.
-----------------------------------------
    MAY  22, 1993  05h 04m 42.52± 0.97s
    41.448 N ± 8.5km   23.144 E ± 4.0km
    DEPTH =  10.0km  (geophysicist)
 GREECE-BULGARIA BORDER REGION    (363)
      ML 2.7 (SKO).

KNT      0.34 213 ePg    04 49.70   0.1
VAY      0.45 254 iPg    04 51.30  -0.4
                 iSg    04 57.30
SRS      0.47 134 iPg    04 52.46   0.3
                 eSg    05 00.80
SOH      0.65 166 ePg    04 55.58   0.1
                 eSg    05 06.60
GRG      0.74 229 ePg    04 57.02  -0.1
                 eSg    05 07.30
THE      0.83 190 ePg    04 58.74   0.3
                 eSg    05 09.82
OUR      1.28 150 iPb    05 06.54   0.3
                 eSb    05 24.40
SKO      1.38 293 ePn    05 10.70   2.9X
                 i      05 13.20
                 iSg    05 31.50
LIT      1.43 200 iPb    05 07.94  -0.6
                 iSb    05 28.74
FNA      1.49 244 ePb    05 09.26  -0.1
PAIG     1.57 165 ePb    05 10.22  -0.3
OHR      1.80 260 ePn    05 14.80   0.9
ALN      2.26 103 ePn    05 20.06  -0.4
AGG      2.50 195 ePn    05 23.78  -0.1
GZR      3.95 356 ePd    06 00.00  15.4X
BZS      4.31 346 ePc    05 48.00  -1.6X
VRI      5.13  29 ePd    06 06.00   4.9X
      S.D. = 0.4  on  13 of  17 obs.
-----------------------------------------
    MAY  22, 1993  05h 07m 52.49± 0.45s
    37.062 N ± 3.3km  117.695 W ± 4.6km
    DEPTH =   5.0km  (geophysicist)
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      ML 3.5 (BRK), 2.9 (GS).

CWCR     0.65 312 P      08 02.61  -2.9X
BCKR     0.83 320 P      08 08.50  -0.7
CASR     0.85 307 P      08 08.98  -0.6
MRCM     0.89 314 ePc    08 09.50  -0.6
                 eS     08 21.04
ORC      0.96 307 P      08 10.90  -0.4
BONR     1.01 332 eP     08 12.24  -0.1
CLKR     1.04 301 P      08 12.26  -0.6
TNP      1.09  20 eP     08 14.30   0.8
MCSM     1.13 302 P      08 14.01  -0.3
MEMM     1.16 302 ePc    08 14.30  -0.3
                 eS     08 28.22
TPNV     1.16  95 eP     08 15.77   1.0
                 eS     08 32.81
MMPM     1.19 298 eP     08 14.52  -0.9
                 eS     08 29.80
WORM     1.43 198 P      08 18.62  -0.6
WASM     1.49 208 P      08 19.93  -0.3
ISA      1.53 204 eP     08 20.00  -0.6
WBSM     1.56 193 P      08 21.12  -0.1
FRI      1.61 268 iPc    08 21.58  -0.1
                 eS     08 41.24
WOFM     1.73 209 P      08 24.15   0.6
WJPM     1.77 201 P      08 24.64   0.6
GSC      1.90 157 eP     08 25.35  -0.6

                 eS     08 52.20
KVN      2.01 351 eP     08 29.72   2.1X
                 eS     08 54.75
PHBM     2.08 248 P      08 30.47   2.0X
PKEM     2.18 244 (P)    08 30.09   0.1
CMB      2.35 295 ePc    08 34.29   1.9
                 ic     08 35.06
                 eS     09 04.69
YEG      2.45 229 P      08 36.06   2.3X
MARC     2.45 213 P      08 36.77   3.0X
MCUM     2.49 292 P      08 37.18   2.8X
PHAM     2.50 241 (P)    08 36.94   2.4X
BMSM     2.52 262 P      08 37.82   3.0X
ABL      2.53 210 eP     08 35.05  -0.1
PRI      2.56 250 eP     08 37.26   1.8
                 eS     09 11.59
BCH      2.69 227 eP     08 38.24   0.9
MNHM     2.70 295 P      08 41.72   4.3X
SSK      2.85 180 eP     08 38.33  -1.3
BVYM     3.00 265 P      08 48.02   6.5X
SAO      3.02 265 ePc    08 43.45   1.6
                 eS     09 23.70
ARN      3.08 277 eP     08 45.17   2.5X
MHC      3.16 276 eP     08 47.61   3.6X
                 eS     09 29.48
PEC      3.19 172 eP     08 43.37  -1.0
JTGM     3.35 271 P      08 51.82   5.3X
MSU      4.61  70 (Pn)   09 08.02   3.4X
                 ePg    09 20.14
HVU      6.06  37 ePg    09 48.63  23.6X
      S.D. = 0.9  on  27 of  42 obs.
-----------------------------------------
&  MAY  22, 1993  05h 34m 40.00s
    34.245 N          116.432 W
    DEPTH =   6.0km  (geophysicist)
 SOUTHERN CALIFORNIA                ( 43)
      <PAS-P>. MD 2.4 (PAS). Felt.

PEC      0.70 240 ePc    34 53.10  -0.9
                 eS     35 02.24
PLM      0.96 202 ePd    34 57.90  -0.8
                 eS     35 10.73
SSK      1.05 268 eP     34 59.04  -1.2
                 eS     35 13.80
GSC      1.10 344 eP     35 00.43  -0.6
                 eS     35 16.51
GLA      1.79 131 eP     35 12.19   0.5
                 eS     35 34.31
        5 obs. associated
-----------------------------------------
&  MAY  22, 1993  05h 57m 04.95s
    60.248 N          151.913 W
    DEPTH =  70.1km
 KENAI PENINSULA, ALASKA            ( 14)
      <AEIC>.

RS2      0.47 298 P      57 16.20  -1.7
DFR      0.52 312 iP     57 17.31  -0.9
                 eS     57 27.73
NCT      0.59 302 eP     57 18.20  -0.8
NKA      0.60  34 iP     57 20.11   1.2
INE      0.60 252 iP     57 18.26  -0.9
                 eS     57 29.17
INW      0.64 254 eP     57 18.53  -1.0
                 eS     57 29.99
BRLK     0.71 133 eP     57 19.85  -0.4
                 eS     57 31.23
CNPM     0.80 154 iP     57 20.73  -0.5
                 eS     57 33.27
XLV      0.80 173 eP     57 20.50  -0.8
SLKM     0.88  72 eP     57 21.44  -0.8
SPU      0.94 356 iP     57 22.10  -0.9
                 eS     57 36.29
CKT      0.97 352 iP     57 22.58  -0.8
                 eS     57 36.91
CKL      0.97 348 iP     57 22.60  -0.9
CKN      0.99 352 iP     57 23.13  -0.5
                 eS     57 37.70
CPAM     1.02 354 eP     57 23.47  -0.6
CRP      1.03 353 iP     57 23.68  -0.6
CP2      1.03 351 eP     57 23.70  -0.6
                 eS     57 39.21
BGL      1.05 347 iP     57 23.57  -0.8
CGLM     1.06 358 iP     57 23.99  -0.6
AUE      1.16 220 iP     57 24.81  -0.9
AUL      1.16 222 eP     57 24.97  -0.8
AUH      1.18 222 eP     57 25.24  -0.8
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AUI	1.19	221	eP	57 25.40	-0.8
PDB	1.23	249	eP	57 25.34	-1.4
			eS	57 41.67	
SEW	1.24	96	iP	57 25.66	-1.1
MPA	1.29	78	eP	57 26.70	-0.8
SUA	1.35	25	iP	57 27.79	-0.6
			eS	57 46.70	
PMS	1.53	48	P	57 30.50	-0.2
			S	57 49.00	
PTE	1.56	65	eP	57 30.02	-1.0
CDD	1.59	214	eP	57 30.41	-1.1
MCNL	1.63	230	iP	57 30.41	-1.6
			eS	57 50.44	
SYI	1.66	189	eP	57 31.58	-0.9
SKT	1.75	6	eP	57 32.57	-1.2
PLRM	1.91	44	eP	57 34.59	-1.4
SVW	2.02	297	P	57 35.50	-2.0
GHO	2.11	42	eP	57 37.24	-1.6
SML	2.34	47	eP	57 40.31	-1.7
HIN	2.70	84	eP	57 44.03	-2.9
SCM	2.74	53	eP	57 46.49	-1.1
VLZ	2.88	70	eP	57 48.19	-1.3
KLU	3.19	64	iP	57 51.36	-2.4

41 obs. associated

MAY 22, 1993 07h 04m 43.24± 0.42s
39.697 N ± 4.5km 20.096 E ± 3.4km
DEPTH = 11.1 ± 2.4 km
3.8mb (5 obs.)
GREECE-ALBANIA BORDER REGION (392)
ML 3.8 (TTG), 3.7 (TIR). MD 3.5 (ATH).

SRN	0.20	338	iPgc	04 47.30	-0.4
			iSg	04 54.00	
KEK	0.23	274	ePb	04 48.70	0.4
IGT	0.25	132	ePg	04 47.70	-0.8
			eSg	04 53.80	
TPE	0.60	354	iPgc	04 58.00	2.7X
			iSg	05 15.00	
KZN	1.42	64	ePn	05 05.00	-4.1X
FNA	1.46	42	ePb	05 09.28	-0.3
OHR	1.51	21	iPn	05 11.30	1.0
			i	05 13.80	
			i	05 32.10	
			i	05 35.90	
VLS	1.57	166	ePn	05 09.50	-1.5
TIR	1.66	354	iPnd	05 16.00	3.7X
			iSn	05 42.50	
LCI	1.76	292	P	05 13.40	-0.4
			eSn	05 42.30	
AGG	1.86	111	iPn	05 15.16	-0.1
			eSn	05 43.10	
LIT	1.89	77	ePn	05 16.72	1.1
			eSn	05 44.90	
LACI	1.96	351	iPnd	05 18.00	1.3
			iSn	05 47.50	
PHP	2.00	7	iPnc	05 19.30	1.9
			iSn	05 47.00	
GRG	2.17	54	ePn	05 20.88	1.1
ULC	2.35	344	iPnc	05 23.00	0.6
			iSn	05 54.06	
THE	2.39	66	ePn	05 22.92	0.1
VAY	2.49	49	iPn	05 25.40	1.1
SKO	2.49	24	iPn	05 25.30	1.0
			i(Sn)	05 56.60	
			iSg	06 05.30	
BRT	2.51	299	P	05 26.30	1.7
KNT	2.59	55	ePn	05 26.76	1.0
ROI	2.73	268	P	05 28.00	0.2
			eSn	05 59.20	
SOH	2.73	65	ePn	05 28.20	0.3
BDV	2.76	340	iPnc	05 28.00	-0.1
			iSn	06 03.38	
PAIG	2.77	84	ePn	05 27.52	-0.8
			eSn	06 06.10	
TTG	2.80	347	iPnd	05 29.42	0.7
			iSn	06 06.05	
BAI	2.85	301	P	05 30.00	0.6
PVY	2.90	358	iPnd	05 32.12	1.9
			iSn	06 10.15	
TDS	2.90	270	P	05 33.70	3.5
CSI	2.94	273	P	05 31.70	1.0
HCY	3.00	337	ePn	05 31.00	-0.5
			iSn	06 08.42	
SRS	3.02	61	ePn	05 31.56	-0.3
OUR	3.05	77	ePn	05 31.96	-0.3
CZI	3.10	262	P	05 33.10	0.1
			eSn	06 16.20	
IVA	3.18	357	iPnc	05 35.82	1.7
			iSn	06 16.61	
NKY	3.22	345	iPnc	05 35.11	0.3
			iSn	06 15.53	
BRY	3.41	340	iPnd	05 37.12	-0.3
			iSn	06 19.21	
MGR	3.52	279	P	05 40.90	2.0
SOI	3.55	244	P	05 38.60	-0.7
GMB	3.64	247	P	05 40.25	-0.5
PLE	3.67	352	iPnd	05 42.18	1.0
			iSn	06 27.55	
VLI	3.72	142	ePn	05 38.50	-3.3X
SGO	3.77	285	P	05 44.90	2.4
ATN	3.93	248	P	05 44.30	-0.4
			eSn	06 32.80	
HVAR	4.43	323	iPn	05 51.00	-0.8
			iSn	06 43.50	
MNO	4.57	249	P	05 57.10	3.0X
			eSn	06 48.60	
DUI	4.71	296	P	05 58.00	2.0
PZI	4.86	238	P	05 53.43	-4.7X
SDI	5.18	295	P	06 04.30	1.8
GZR	6.03	18	ePd	06 30.00	15.6X
MNS	6.22	298	P	06 19.00	1.9
ASS	6.53	303	P	06 22.00	0.4
ARV	6.57	308	P	06 21.10	-1.1
VBY	6.81	330	ePn	06 24.20	-1.3
			eSn	07 41.00	
PTJ	6.91	335	e(Pn)	06 24.50	-2.3
RIY	7.04	325	iPnc	06 26.90	-1.8
MLR	7.22	35	eP	06 33.00	1.7
CRE	7.25	305	P	06 31.20	-0.6
CEY	7.34	327	iP	06 31.40	-1.5
			eS	07 53.50	
SFI	7.46	307	P	06 36.40	1.8
PGD	7.52	306	P	06 36.40	0.8
TRI	7.60	324	e(Pn)	06 34.30	-2.2
			e(Sn)	08 00.00	
VOY	7.80	326	ePn	06 37.60	-1.8
			eSn	08 05.50	
VRI	7.86	36	eP	06 40.00	-0.2
RBL	8.26	327	P	06 43.90	-1.9
FVI	8.72	325	P	06 50.50	-1.6
KBA	8.86	329	iPnc	06 52.10	-2.1
			iSn	08 33.80	
CTI	8.87	318	P	06 53.00	-1.3
WTTA	9.74	324	iPc	07 04.60	-1.8
			iS	08 54.60	
GEC2	10.23	336	Pn	07 11.20	-1.8
			Sn	09 01.30	
KHC	10.52	336	eP	07 15.00	-1.9
MOX	12.47	334	e(P)	07 41.80	-1.5
HFS	20.85	351	eP	09 24.50	-2.7X
	0.4s		2.20nm		3.8mb
NUR	21.03	6	eP	09 25.50	-3.5X
	0.3s		1.30nm		3.8mb
EKA	22.01	323	P	09 38.00	-0.9
	1.1s		5.40nm		3.9mb
NB2	22.07	348	P	09 37.00	-2.5X
	0.8s		2.60nm		3.7mb
KAF	22.76	8	eP	09 44.90	-1.5
	0.5s		1.90nm		3.9mb
BCAO	35.13	183	ePd	11 37.00	-1.8
	0.2s		4.00nm		4.9mb X

S.D = 1.4 on 68 of 78 obs.

% MAY 22, 1993 07h 39m 14.61± 0.85s
39.215 N ± 7.5km 27.717 E ± 8.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

DST	0.81	61	ePn	39 30.40	0.1
IZM	0.89	204	ePn	39 31.70	0.0
EDC	1.14	6	ePn	39 36.00	0.1
KCT	1.14	25	iPn	39 35.80	-0.2
EZN	1.24	300	iPn	39 37.60	0.0

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

? MAY 22, 1993 07h 58m 52.02± 3.90s
39.546 N ±28.6km 29.571 E ±18.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.5 (ISK).

DST	0.73	275	ePg	59 06.40	0.0
			eSg	59 16.00	
YLV	1.03	352	ePn	59 11.50	0.0
EYL	1.11	24	ePn	59 13.00	0.0
KCT	1.17	307	iPn	59 13.90	0.0

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

? MAY 22, 1993 08h 23m 51.54± 3.15s
38.829 N ±16.2km 26.385 E ±26.5km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
ML 2.8 (ISK).

IZM	0.81	122	iPg	24 07.20	-0.1
			eSg	24 20.20	
EZN	1.00	357	iPg	24 10.60	0.2
			eSg	24 23.10	
DST	1.91	65	ePn	24 25.00	0.6
BNT	1.93	37	ePn	24 24.00	-0.7
KCT	2.08	46	iPn	24 27.00	0.1

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

MAY 22, 1993 09h 48m 07.48± 0.73s
30.501 S ± 7.2km 179.175 W ± 6.4km
DEPTH = 221.8 ± 7.0 km
5.0mb (20 obs.)
KERMADEC ISLANDS REGION (177)

RAO	1.66	42	ePc	48 44.00	-0.7
			S	49 16.00	
HBZ	7.38	196	eP	49 47.40	-6.0X
KUZ	7.54	213	P	49 56.60	1.1
PUZ	7.85	195	P	49 53.40	-6.2X
			S	51 20.30	
URZ	8.33	201	eP	49 59.90	-5.9X
			S	51 31.60	
NOZ	8.42	195	eP	50 00.80	-6.2X
WLZ	8.53	209	eP	50 04.20	-4.3X
MOZ	9.40	210	eP	50 18.10	-1.5
NGZ	9.66	205	eP	50 17.00	-6.1X
WAHZ	9.88	201	eP	50 17.90	-7.9X
MNG	10.99	202	eP	50 29.80	-10.2X
			S	52 30.00	
CAW	11.57	202	eP	50 37.60	-9.6X
MRW	11.80	203	eP	50 40.60	-9.6X
			eS	52 48.00	
SNZO	11.87	203	eP	50 43.54	-7.5X
			eS	52 45.18	
QRZ	12.31	211	eP	50 51.50	-5.1X
			eS	53 03.90	
VUN	12.62	350	eP	51 00.80	0.2
THZ	12.93	207	eP	50 57.10	-7.3X
			eS	53 15.70	
KHZ	13.25	204	eP	51 00.20	-8.1X
			eS	53 17.90	
DSZ	13.37	210	eP	51 05.10	-4.8X
LTZ	14.04	207	eP	51 10.30	-7.9X
			eS	53 38.00	
DZM	15.38	300	iPc	51 36.80	2.1
			i	54 48.10	
BRS	24.72	270	iPc	53 13.00	2.9X
	0.5s		3.00nm		4.1mb
ARMA	25.14	263	iPd	53 16.90	2.8X
	0.4s		9.00nm		4.7mb
RIV	25.29	255	eP	53 17.00	1.8
	0.7s		684.93nm		6.4mb X
CNB	26.78	251	iPc	53 30.50	1.6
	1.0s		32.00nm		5.0mb
CAN	27.08	251	iPd	53 32.70	1.2
BWA	27.56	253	iPd	53 34.60	-1.2
TOO	29.99	247	iPc	53 58.10	0.7
	1.0s		38.00nm		5.0mb
			i	56 52.50	
QLP	32.29	268	iPc	54 17.40	-0.1
CTA	32.81	280	iPd	54 22.50	0.4
	0.9s		63.03nm		5.2mb
			i	54 34.00	
STK	33.47	257	P	54 26.70	-0.9
ASPA	42.09	268	iPd	55 38.10	-1.3
	0.7s		33.70nm		4.9mb
			e	56 38.20	
			eScP	00 56.80	
WB2	43.08	273	iPd	55 46.10	-1.3
	0.4s		79.70nm		5.5mb
			eScP	01 01.30	
			eS	01 52.60	
WRA	43.09	273	P	55 46.50	-1.0

22d 09h

0.7s 21.70nm 4.7mb
MTN 49.00 280 eP 56 32.00 -1.8
SPA 59.67 180 iPd 57 50.50 0.0
0.6s 138.21nm 5.8mb
MAT 77.75 326 eP 59 39.00 -2.2
1.0s 16.00nm 4.7mb
OFUJ 78.24 330 eP 59 42.60 -1.2
NVL 78.71 184 iPc 59 46.00 0.0
0.8s 42.00nm 5.2mb
e 01 38.00
SNA 79.45 179 iPd 59 50.00 0.1
0.9s 55.00nm 5.3mb
KUSJ 80.39 334 eP 59 55.30 0.1
ASAJ 82.05 333 P 00 05.20 1.4
ADK 82.06 2 eP 00 02.80 -0.8
0.8s 56.90nm 5.4mb
SSE 83.41 312 Pc 00 11.00 0.0
1.0s 11.00nm 4.6mb
YSS 84.47 335 iPd 00 16.50 0.6
PLM 86.60 48 eP 00 27.70 0.7
PEC 86.75 47 eP 00 28.04 0.5
1.2s 30.74nm 5.0mb
ISA 87.09 45 eP 00 29.43 0.3
1.1s 38.16nm 5.1mb
CMB 87.52 43 ePd 00 31.25 0.1
0.8s 19.35nm 5.0mb
GLA 87.73 49 iPc 00 33.68 1.4
GSC 87.89 46 iPd 00 33.73 0.7
LGPM 88.11 39 eP 00 34.14 0.1
BONR 88.69 44 eP 00 37.22 0.1
LBFM 88.92 39 eP 00 38.18 0.2
TPNV 89.29 46 eP 00 40.48 0.8
0.8s 8.06nm 4.7mb
MSU 92.79 46 eP 00 56.42 0.5
LTX 93.30 58 eP 00 57.07 -1.2
SRU 94.18 47 eP 01 01.84 -0.4
HVU 94.40 43 eP 01 03.25 0.1
PV08 95.05 48 eP 01 06.36 -0.1
FBA 98.19 13 (P) 01 18.58 -0.9
0.6s 2.65nm 4.8mb
RSSD 101.01 45 ePdiff01 32.19 -0.9
1.0s 5.95nm 5.1mb
GUN 107.52 292 PKP 06 07.80 -2.2X
PKI 107.75 292 PKP 06 08.20 -2.2X
KKN 107.94 292 PKP 06 08.20 -2.4X
0.6s 10.00nm
DMN 108.01 292 PKP 06 08.80 -2.0X
GKN 108.55 292 PKP 06 08.80 -2.9X
MBC 112.73 13 ePKP 06 16.00 -2.0X
0.8s 2.00nm
FCC 113.11 34 ePKP 06 25.50 6.4X
FRS 115.70 204 iPKPc 06 23.35 -1.7X
0.9s 21.00nm
BLF 115.98 205 e(PKP)06 24.50 -1.3X
PRY 117.47 207 ePKP 06 27.00 -1.7X
0.5s 10.00nm
KSR 118.65 207 e(PKP)06 29.00 -2.0X
FRU 121.29 304 ePKP 06 34.00 -1.3X
1.2s 40.00nm
WIN 124.97 198 iPKPc 06 43.00 -0.3X
1.0s 40.00nm
FRB 125.98 31 ePKP 06 42.50 -1.2X
LSZ 127.41 214 iPKP 06 47.20 -0.8X
LMN 127.60 53 ePKP 06 48.50 1.1X
MAIO 131.32 293 iPKPc 06 53.60 -1.3X
SDF 140.04 345 iPKP 07 02.10 -8.0X
GRS 141.99 296 ePKP 07 09.00 -5.7X
1.1s 40.00nm
GRO 142.35 303 ePKP 07 10.00 -4.9X
MOS 143.84 325 iPKPc 07 14.00 -3.0X
1.4s 160.00nm
PYA 144 17 304 iPKPc 07 16.00 -2.1X
1.0s 150.00nm
KAF 144.30 340 iPKP 07 14.40 -3.3X
0.6s 58.70nm
OBN 144.66 324 iPKPd-07 16.60 -1.9X
1.7s 870.00nm
PUL 144 66 334 (PKP) 07 15.00 -3.3X
1.2s 400.00nm
NSS 145.24 352 ePKP 07 17.43 -1.7X
NUR 146.05 339 iPKP 07 19.90 -0.7X
0.7s 124.90nm
SOC 146 63 304 ePKP 07 23.50 1.4X
1.0s 70.00nm
MOL 147.62 354 ePKP 07 23.21 0.1X
ANN 148 06 307 iPKPc 07 27.00 2.7X
1.0s 50.00nm

UPP 148.54 344 iPKP 07 27.30 2.7X
i 07 31.30
NB2 148.69 350 PKP 07 27.60 2.7X
0.7s 37.50nm
FOO 148.77 356 ePKP 07 27.73 2.8X
NAO 148.95 350 PKP 07 26.57 1.3X
HFS 149.13 347 ePKP 07 22.80 -2.8X
0.6s 13.40nm
BCAO 149.16 216 iPKPc 07 24.00 -3.1X
0.5s 68.00nm
id 07 28.30
GAZ 149.19 292 iPKP 07 30.00 3.6X
SUE 149.33 356 ePKP 07 28.75 2.9X
AYN 149.47 276 ePKP 07 26.00 -1.0X
MNK 149.68 328 ePKP 07 30.00 3.5X
SRFA 150.18 276 ePKP 07 33.33 5.2X
KONO 150.25 351 ePKP 07 31.80 4.5X
HRI 150.31 285 ePKP 07 27.10 -1.2X
HOL 150.36 276 ePKP 07 28.00 -0.4X
DSI 150.44 281 ePKP 07 26.90 -1.5X
ADI 150.72 284 ePKP 07 27.60 -1.3X
ZNT 150.81 282 ePKP 07 28.00 -1.0X
KAS 151.36 301 iPKPd 07 35.80 6.2X
CSS 152.37 288 ePKP 07 37.50 6.3X
VRI 154.66 315 ePKP 07 32.50 -1.5X
LIC 155.23 166 PKP 07 40.00 4.3X
Z 22s 0.20um 4.9Msz
e 08 01.30
MLR 155.32 314 ePKP 07 25.00 -10.1X
KIC 155.42 167 PKP 07 40.00 4.1X
e 08 02.00
UZH 155.60 324 iPKPc 07 45.00 9.9X
1 1s 37.00nm
OJC 155.69 330 ePKP 07 34.00 -1.3X
e 08 02.30
SPC 156.23 327 ePKP 07 36.20 -0.1X
KSP 156.63 335 ePKP 07 35.20 -1.3X
0.8s 50.00nm
e 07 46.00
ic 08 06.40
CLL 157.32 340 iPKP 07 47.80 10.5X
1.2s 12.00nm
i 08 09.00
eSg 09 34.00
BRG 157.41 338 iPKP 07 36.80 -0.6X
1.2s 46.00nm
i 07 48.30
ic 08 09.60
KHC 159.03 336 ePKP 07 38.00 -1.4X
1.1s 11.70nm
e 08 17.20
e 09 42.50
GEC2 159.22 335 PKP 07 38.40 -1.3X
0.9s 1.96nm
e 07 51.70
SKO 159.87 310 e(PKP)07 39.00 -1.5X
i 08 22.00
PTJ 160.62 327 ePKP 07 37.80 -3.4X
OHR 160.69 309 ePKP 07 39.30 -2.1X
S.D. = 1.0 on 44 of 126 obs.

% MAY 22, 1993 10h 06m 39.91± 0.80s
39.987 N ± 6.6km 28.100 E ± 6.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

KCT 0.33 37 iPg 06 46.50 -0.2
eSg 06 51.50
EDC 0.40 333 iPg 06 48.00 -0.1
iSg 06 54.00
DST 0.56 133 iPg 06 51.10 -0.2
eSg 06 59.00
YLV 1.13 59 ePn 07 01.50 0.3
CTT 1.19 12 ePn 07 02.10 0.1
EZN 1.37 264 iPn 07 05.20 0.1
S.D. = 0.3 on 6 of 6 obs.

? MAY 22, 1993 10h 29m 54.74± 4.55s
10.857 N ±20.8km 62.214 W ±56.0km
DEPTH = 80.0km (geophysicist)
NEAR COAST OF VENEZUELA (97)
MD 3.2 (TRN).

TCE 0.48 109 eP 30 08.54 0.1
eS 30 17.88
TRN 0.82 105 eP 30 11.97 0.0
eS 30 24.68
TPP 0.92 126 eP 30 13.04 -0.1
eS 30 26.45
TBH 1.19 108 eP 30 16.37 0.0
eS 30 32.25
GRW 1.40 23 eP 30 19.25 0.0
eS 30 36.54
S.D. = 0.1 on 5 of 5 obs.

% MAY 22, 1993 10h 48m 01.65± 0.83s
39.161 N ± 7.1km 27.532 E ± 8.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

IZM 0.79 196 ePg 48 17.00 -0.1
eSg 48 29.00
DST 0.96 62 iPg 48 20.10 0.2
eSg 48 34.10
EZN 1.15 306 iPn 48 23.20 0.1
EDC 1.21 12 ePn 48 24.00 -0.2
KCT 1.26 30 ePn 48 25.00 0.0
S.D. = 0.2 on 5 of 5 obs.

% MAY 22, 1993 11h 15m 21.64± 0.89s
39.193 N ± 8.1km 29.103 E ± 9.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

DST 0.55 318 ePg 15 32.00 -0.9
eSg 15 39.00
ALT 0.80 100 ePg 15 37.00 -0.2
eSg 15 50.00
KHL 0.93 159 ePg 15 39.60 0.2
eSg 15 52.60
KCT 1.20 332 ePn 15 45.00 1.0
YLV 1.39 9 ePn 15 47.00 -0.1
EYL 1.59 30 ePn 15 50.00 0.0
S.D. = 0.8 on 6 of 6 obs.

% MAY 22, 1993 11h 16m 29.08± 0.63s
39.275 N ± 5.7km 29.130 E ± 6.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 3.1 (ISK).

DST 0.51 310 iPg 16 40.10 0.7
iSg 16 47.10
ALT 0.79 106 iPg 16 45.50 0.9
iSg 16 57.50
KHL 1.00 162 iPg 16 48.10 0.0
iSg 17 01.60
KCT 1.14 329 iPn 16 51.00 0.6
YLV 1.30 8 iPn 16 53.00 -0.2
GPA 1.36 42 ePn 16 53.70 -0.4
EYL 1.51 31 ePn 16 55.50 -0.8
IZM 1.70 240 ePn 16 58.20 -0.8
S.D. = 0.8 on 8 of 8 obs.

? MAY 22, 1993 11h 34m 36.25± 0.93s
39.272 N ± 8.7km 29.215 E ±10.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.6 (ISK).

DST 0.56 306 ePg 34 48.00 0.3
ALT 0.73 107 ePg 34 51.00 0.4
eSg 35 03.00
KHL 0.98 166 ePg 34 54.60 -0.3
eSg 35 06.60
YLV 1.30 5 ePn 35 00.00 -0.3
S.D. = 0.6 on 4 of 4 obs.

? MAY 22, 1993 12h 02m 07.09± 2.04s
40.572 N ± 9.2km 23.872 E ±22.8km
DEPTH = 10.0km (geophysicist)
GREECE (364)

SOH 0.47 302 ePg 02 16.30 -0.3
SRS 0.58 339 ePg 02 18.82 -0.1
eSg 02 26.70
PAIG 0.66 193 ePg 02 20.22 0.0
eSg 02 30.00
KNT 0.94 309 ePg 02 25.50 0.4
eSg 02 38.60
S.D. = 0.5 on 4 of 4 obs.

% MAY 22, 1993 12h 17m 05.74± 0.85s
39.120 N ± 7.3km 27.600 E ± 8.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

IZM	0.77	200	ePg	17 20.80	0.0
			eSg	17 32.80	
DST	0.93	58	ePn	17 23.50	-0.1
EZN	1.21	306	ePn	17 28.20	-0.1
EDC	1.24	9	ePn	17 29.00	0.2
KCT	1.27	27	iPn	17 29.30	0.0

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

% MAY 22, 1993 12h 52m 40.67± 0.62s
26.350 S ± 5.6km 27.468 E ± 6.3km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 3.4 (PRE).

PRY	0.58	180	eP	52 52.00	-0.2
			S	52 58.90	
KSR	0.71	313	iPd	52 55.00	0.2
			S	53 05.00	
BFS	0.82	228	eP	52 57.90	0.8
			S	53 08.00	
SLR	0.95	50	eP	52 59.00	-0.4
			(S)	53 11.00	
SEK	1.97	176	eP	53 16.50	1.3
			S	53 40.50	
SWZ	2 09	246	eP	53 16.80	-0.1
			S	53 43.00	
BFT	2 41	75	eP	53 21.90	0.3
			S	53 50.60	
BLF	2.97	202	eP	53 29.00	-0.5
			S	54 03.00	
FRS	3 88	209	eP	53 41.00	-1.3
			S	54 23.60	
POF	7 31	244	e(P)	54 46.00	15.3X
			S	56 14.00	
SUR	8 35	222	eP	54 42.50	-3.0X
CER	9 96	223	e(P)	54 40.00	-27.5X
			(S)	56 30.00	
WIN	10 17	290	e(P)	55 07.00	-3.6X
			S	56 55.00	

S D. = 0.9 on 9 of 13 obs.

& MAY 22, 1993 13h 25m 00.62s
36.086 N 117.705 W
DEPTH = 0.7km
CALIFORNIA-NEVADA BORDER REGION (40)
<PAS-P>. ML 2.9 (PAS), 2.9 (GS).

VPEM	0.16	214	P	25 04.01	0.1
WCHM	0.36	236	P	25 07.67	-0.2
WSHM	0.48	159	P	25 10.34	0.0
WLHM	0.50	278	P	25 10.11	-0.4
WORM	0.58	228	P	25 11.72	-0.6
WBSM	0 65	213	P	25 13.21	-0.4
ISA	0.75	236	iPc	25 14.95	-0.7
			eS	25 24.92	
WASM	0.77	244	P	25 15.43	-0.6
WJPM	0.92	223	P	25 18.06	-1.0
WOFM	0.99	236	P	25 19.22	-1.1
SNDC	1 06	208	P	25 20.67	-0.9
GSC	1.07	137	ePn	25 20.36	-1.4
			eS	25 33.79	
TEJ	1.17	223	P	25 24.46	1.1
BMTC	1.19	218	P	25 22.65	-1.2
ARVC	1 32	224	P	25 26.70	0.7
BHPR	1.36	333	P	25 26.18	-0.7
TPNV	1.45	53	eP	25 27.38	-0.9
			eS	25 46.42	
MRCM	1.71	338	ePn	25 31.94	0.0
CRGC	1.85	243	P	25 34.91	1.0
MMPM	1.85	325	ePn	25 33.66	-0.5
MEMM	1.86	328	ePn	25 34.98	1.1
			eS	25 59.54	
SSK	1.87	180	ePn	25 33.22	-1.1
BONR	1.93	346	ePn	25 33.91	-1.3
PHBM	1.93	276	P	25 36.30	1.4
YEG	1.94	251	P	25 36.38	1.1
TNP	2 03	11	ePn	25 36.44	-0.2
BCH	2.14	246	ePn	25 38.53	0.5
			eS	26 06.68	
PARM	2 14	275	P	25 39.29	1.3
PHAM	2.20	264	ePn	25 36.93	-2.0
			eS	26 11.41	
PEC	2.23	168	eP	25 38.15	-1.3
			eS	26 11.20	
SCCM	2.31	241	P	25 42.41	1.8
PLM	2.81	165	ePn	25 46.11	-1.7
			ePg	25 53.01	
			eS	26 25.53	
CMB	2.89	313	(Pn)	25 49.26	0.4
			ePg	25 51.47	
			eS	26 29.53	
ARN	3.32	293	(P)	25 53.55	-1.4
GLA	3.85	141	(Pn)	25 59.11	-3.3
MSU	5.03	60	(Pn)	26 16.55	-2.8
			ePg	26 32.76	

36 obs. associated

& MAY 22, 1993 13h 35m 10.23s
36.105 N 117.699 W
DEPTH = 1.3km
CALIFORNIA-NEVADA BORDER REGION (40)
<PAS-P>. ML 2.7 (PAS), 2.5 (GS).

ISA	0.77	235	eP	35 24.87	-0.7
			eS	35 35.36	
GSC	1.08	137	ePn	35 30.40	-1.1
			eS	35 46.12	
TPNV	1.44	54	ePn	35 36.65	-0.9
MMPM	1.84	325	eP	35 43.79	0.3
			eS	36 08.25	
MEMM	1.85	328	eP	35 44.10	0.8
SSK	1.89	180	ePn	35 43.56	-0.5
BONR	1.91	346	ePn	35 43.95	-0.5
TNP	2.01	11	ePn	35 44.18	-1.7
BCH	2.15	245	eP	35 47.98	0.2
PEC	2.25	169	eP	35 48.74	-0.5
			eS	36 22.58	
PLM	2.83	166	ePn	35 56.39	-1.2
CMB	2.89	313	ePn	35 58.82	0.6
			eS	36 39.05	

12 obs. associated

MAY 22, 1993 13h 35m 21 85± 0.44s
54.843 N ± 6.8km 159.801 W ± 5.7km
DEPTH = 33.0km (normal)
4.3mb (9 obs.)
SOUTH OF ALASKA (17)
ML 4.3 (PMR).

SDN	0.64	322	iPd	35 36.81	2.4X
KDC	5.00	51	eP	36 34.76	-1.8X
MCNL	5.28	32	P	36 41.00	0.6
CDD	5.31	37	P	36 41.70	0.8
SVW	6.66	18	eP	36 59.65	-0.3
CP2	7.58	29	eP	37 12.61	-0.4
SLKM	7.65	38	eP	37 13.76	0.0
TTA	8.34	12	eP	37 22.21	-1.3
PMR	8.79	35	eP	37 28.43	-1.1
KLU	9.89	42	eP	37 41.70	-3.1X
ADK	10.51	261	eP	37 52.60	-0.6
BALM	11.14	49	(P)	37 57.76	-4.1X
IMA	11.65	12	eP	38 08.96	0.2
FBA	11.73	26	eP	38 06.20	-3.5X
INK	18.18	32	eP	39 34.00	1.1
	0.8s		3.00nm		3.5mb
MBC	26.18	21	eP	40 55.00	0.5
	0.9s		3.00nm		3.9mb
FCC	34.90	56	eP	42 20.50	8.7X
PV09	37.50	94	eP	42 34.28	-0.1
PV08	37.73	94	(P)	42 35.11	-1.2
			e	42 37.50	
FRB	43 53	40	eP	43 23 50	0.1
	0.5s		4 00nm		4.4mb
MAT	45.38	273	eP	43 39 00	0.3
	1.0s		8 00nm		4.6mb
LTX	47.23	99	eP	43 53.88	0.4
KAF	63.29	357	iP	45 48.20	-0.8
	0.4s		1.50nm		4.5mb
NB2	64.24	5	P	45 54.70	-0.6
	0.7s		1.90nm		4.3mb
NUR	64.94	358	iP	45 59.40	-0.3
	0.3s		2.00nm		4.7mb
EKA	68.53	14	Pc	46 22.60	0.0
	0.8s		2.80nm		4.4mb
MOX	74.64	6	eP	47 00.20	1.1
GEC2	76.54	4	P	47 10.80	0.8
	0.9s		1.33nm		3.9mb
			e	47 13.00	
			e	47 17.80	
			e	47 23.00	
GUN	80.27	305	PKP	47 31.40	0.3
KKN	80.65	305	PKP	47 33.80	0.9
GKN	80.78	306	PKP	47 33.60	0.1
PKI	80.78	305	PKP	47 33.80	0.1
DMN	80.89	306	PKP	47 33.70	-0.5

S.D. = 0.7 on 27 of 33 obs.

• MAY 22, 1993 13h 43m 25.94± 0.39s
5.466 S ± 9.1km 128.897 E ±15.4km
DEPTH = 33.0km (normal)
5.1mb (18 obs.)
BANDA SEA (280)

MTN	7.66	163	eP	45 17.00	-1.0
	0.4s		83.00nm		6.1mb X
KNA	10.22	181	eP	45 52.50	-1.0
WB2	15.34	160	iPc	46 56.80	-5.0X
	0.7s		17.00nm		4.4mb
ASPA	18.73	166	iPd	47 44.00	-0.4
	0.8s		74.20nm		4.9mb
			eS	51 27.40	
LEM	21.20	265	iPd	48 21.00	9.6X
CTA	22.27	132	iPc	48 20.50	-1.4
	2.0s		132.35nm		5.0mb
			e	48 32.00	
BCP	23.24	339	eP	48 32.00	0.4
BAG	23.24	339	eP	48 32.00	0.4
QLP	25.60	147	eP	48 53.70	-0.3
STK	28.84	157	eP	49 23.30	-0.2
	0.8s		2.70nm		4.0mb X
ARMA	32.77	142	eP	49 58.10	-0.3
	0.6s		3 00nm		4.4mb
BWA	34.02	150	iPc	50 10.50	1.4
			ipP	50 19.30	30kmX
CAN	35.02	151	iPc	50 18.30	0.6
			ipP	50 26.90	29kmX
CNB	35.19	150	eP	50 20.90	1.7
	0.8s		13.00nm		4.9mb
TOO	35.36	157	eP	50 22.50	2.0
	0.4s		6.00nm		4.9mb
CHTO	38.12	310	ePd	50 45.60	1.7
	0.9s		23.44nm		5.0mb
kMI	39.64	321	Pc	50 59.00	2.2
	1.5s		50.00nm		5.1mb
			pP	51 06.50	25kmX
MAT	42.69	11	eP	51 17.00	-4.4X
	1.1s		16.46nm		4.7mb
BJI	46.77	347	eP	51 53.00	-1.1
	1.0s		18.00nm		5.0mb
LZH	47.54	332	Pc	52 00.80	0.3
	1.2s		36.00nm		5.3mb
	Z 18s		0.25um		4.2Msz
			sP	52 08.50	
GUN	53.12	311	P	52 42.60	-0.8
	0.8s		43.00nm		5.5mb
PKI	53.30	310	P	52 43.60	-1.1
	0.6s		14.00nm		5.1mb
KKN	53.51	311	P	52 45.40	-0 7
	0.8s		43.00nm		5.5mb
DMN	53.55	310	P	52 45.80	-0 6
	0.8s		34.00nm		5.4mb
GKN	54.11	310	P	52 49.80	-0 6
	0.8s		47.00nm		5.6mb
HYB	54.66	296	eP	52 54.00	-0 4
IRK	61.21	343	ePc	53 38.70	-1.1
	1.0s		31.00nm		5.4mb
			e	53 46.40	
YAK	67.29	0	iPd	54 18.20	-1 0
	0.8s		52.00nm		5.7mb
	Z 18s		0.40um		4.7Msz
	E 18s		0.40um		
MAIO	76.87	309	eP	55 18.00	1.1
HJA	148.25	154	ePKPc	03 15.80	8 2X

S.D. = 1.1 on 26 of 30 obs.

MAY 22, 1993 13h 53m 00.28± 1.79s
55.980 S ± 5.2km 27.477 W ± 5.6km
DEPTH = 113.4 ± 15.8 km
5.3mb (14 obs.)
SOUTH SANDWICH ISLANDS REGION (153)
Mw 5.4 (HRV).
CENTROID, MOMENT TENSOR (HRV)
Dotо Used: GDSN
L.P.B.: 21S, 38C

22d 13h

Centroid Location:
Origin Time 13:53: 4.0 0.4
Lat 56.03S 0.04 Lon 27.51W 0.06
Dep 105.8 2.8 Half-duration 1.2
Moment Tensor; Scale 10**16 Nm
Mrr= 8.20 0.51 Mtt=-5.82 0.79
Mff=-2.38 0.67 Mrt=-9.83 0.49
Mrf=-3.23 0.49 Mtf= 7.37 0.76
Principal Axes:
T Val= 15.56 Plg=53 Azm=145
N -2.03 31 288
P -13.54 18 29
Best Double Couple:Mo=1.5*10**17
NP1:Strike=157 Dip=38 Slip= 146
NP2: 275 69 57

SNA	18.09	152	iPc	57	04.60	-0.6
	0.6s	157.00nm				5.5mb
NVL	22.41	147	iPc	57	50.50	1.0
	2.0s	448.00nm				5.5mb
			ePP	58	20.00	
			eS	01	50.00	
			eSS	02	28.00	
SPA	34 20	180	iPc	59	36.90	0.5
	0.4s	355.26nm				6.5mb X
TCA	35.75	298	ePc	59	49.20	-0.5
VAO	35.94	328	eP	59	53.30	1.9
RTLL	37.72	293	iPd	00	04.70	-1.5
RTCB	37.77	293	iPc	00	05.50	-1.2
RTBS	37.97	292	e(P)d	00	09.40	1.2
PPD	38.23	323	eP	00	11.40	0.9
CER	39.21	75	eP	00	17.50	-1.0
	1.0s	60.00nm				5.4mb
MAW	40.30	144	iPc	00	28.50	1.4
	0.8s	37.36nm				5.2mb
YJA	43.89	305	ePd	00	52.40	-5.0X
WIN	46.71	63	eP	01	18.50	-1.0
SIV	47.41	314	P	01	24.10	-0.7
SEK	47 63	78	eP	01	27.00	0.4
	1.0s	50 00nm				5.3mb
CCH	48.34	307	P	01	32.30	0.0
			e	06	41.00	
PRY	48.64	77	eP	01	34.00	-0.4
	1 5s	40.00nm				5.0mb
KSR	49 17	75	eP	01	39.00	0.5
CNCB	49.68	305	iPc	01	46.20	3.3X
			i	06	47.60	
			e	08	50.00	
LPB	49.98	305	P	01	45.20	0.2
			e	06	45.00	
			e	08	41.00	
SLR	50.03	77	iPc	01	43.20	-1.8
	1.2s	40.00nm				5.2mb
Z	18s	2.71um				5.3Msz
ARE	51.63	302	eP	01	58.00	0.6
CSY	54.02	160	iPc	02	15.30	1.2
	0.6s	54.90nm				5.7mb
LSZ	58.50	69	iPd	02	40.00	-6.8X
LIC	64.70	25	PKP	03	28.60	0.6
Z	20s	0.20um			4	3Msz
KIC	64.90	25	PKP	03	29.80	0.5
TIC	65.11	25	PKP	03	30.00	-0.6
BCAO	70.99	49	iPc	04	08.00	0.7
	0.5s	13.00nm				5.0mb
			id	04	11.90	
			id	04	29.10	
LTZ	80.20	195	P	04	58.80	-0.2
			e	05	27.40	
DSZ	81.28	194	P	05	03.00	-1.7
MRW	81.34	197	eP	05	04.90	0.0
DIW	81.89	196	eP	05	07.60	-0.2
ORZ	82.08	195	eP	05	06.70	-2.1
NGZ	83.20	198	eP	05	13.80	-1.0
MOZ	83.99	197	P	05	17.80	-0.8
TOO	86.62	174	iPd	05	32.00	0.2
	0.7s	17.00nm				5.1mb
MUN	87.08	150	eP	05	34.50	0.5
KLB	87.87	151	eP	05	38.50	0.7
BAL	88.51	150	eP	05	41.30	0.4
	0.6s	12.00nm				5.1mb
CAN	89.01	177	eP	05	43.40	0.1
CNB	89.03	177	eP	05	44.00	0.6
COOL	89.43	153	iPc	05	45.70	0.4
MRWA	89.61	149	eP	05	47.00	0.9
BWA	89.89	177	eP	05	47.20	-0.2
STK	91.99	171	eP	05	57.50	0.5
	0.8s	3.60nm				4.7mb
OLP	97.47	173	eP	06	22.20	0.1
ASPA	99.11	163	iPc	06	29.30	-0.4
	0.6s	19.90nm				5.9mb
			e	10	27.70	
WRA	102.82	162	Pdiff	06	46.20	0.1X
	0.6s	2.90nm				5.3mb
ULM	120.08	316	ePKP	11	40.00	2.1
NB2	120.60	21	PKP	11	38.10	-0.5
	0.7s	1.40nm				
NUR	123.23	28	ePKP	11	42.80	-0.7
FRB	123.53	339	ePKP	11	44.00	0.0
	0.7s	3.00nm				
LRM	123.83	303	ePKPc	11	46.10	0.5
			e	15	10.70	
DMN	124.95	92	PKP	11	48.00	-0.3
GKN	124.99	91	PKP	11	47.60	-0.6
	0.4s	10.00nm				
KAF	125.02	28	iPKP	11	46.60	-0.4
	0.3s	3.10nm				
PKI	125.09	92	PKP	11	47.80	-0.9
	0.6s	12.00nm				
KKN	125.18	92	PKP	11	48.80	0.1
	0.6s	15.00nm				
CHTO	125.54	110	ePKP	11	49.10	-0.2
GUN	125.61	92	PKP	11	49.00	-0.7
	0.4s	9.00nm				
FCC	126.13	324	ePKP	11	56.50	7.3X
SDF	129.42	24	iPKP	11	55.50	0.2
			i	12	22.90	
ARU	131.77	48	ePKP	12	01.00	0.9
	2.0s	50.00nm				
KMI	132.70	110	PKPc	12	04.00	0.9
	2.0s	100.00nm				
			PP	15	19.50	
SVE	132.89	49	ePKPc	12	02.00	-0.2
	1.8s	40.00nm				
LZH	141.78	100	ePKP	12	14.00	-5.6X
ELT	142.85	66	ePKP	12	17.00	-3.6X
	1.5s	27.00nm				
MBC	143 85	336	ePKPd	12	20 00	-1.7
	0.5s	5.00nm				
INK	145.64	321	ePKPc	12	26.40	1.5
	0.6s	26.00nm				
SSE	146.81	125	PKPc+	12	28.00	0.0
	1.5s	79.00nm				
NRI	149.25	39	iPKPc	12	36.00	5.3X
	1.8s	51 00nm				
MOY	149.87	76	ePKP	12	32.00	-0.1
	1.6s	125.00nm				
PMR	150.16	305	ePKPc	12	37.80	5.6X
	0.6s	21.20nm				
FBA	150.35	312	iPKPc	12	37.70	5.3X
ZAK	150.50	80	ePKP	12	33.00	0.0
	1.4s	78.00nm				
			e	12	39.00	
KDC	150.58	297	ePKP	12	38.80	5.9X
BJI	151.35	108	ePkP	12	40.50	5.8X
	1.2s	49.00nm				
IRK	151.96	77	ePKPc	12	41.80	6.5X
	1.6s	43.00nm				
			e	12	54.10	
IMA	152.94	314	iPKPc	12	44.60	8.2X
	0.8s	15.70nm				
SVW	153.07	302	ePKP	12	43.50	6.9X
TTA	153.59	306	iPKPc	12	46.20	8.9X
BOD	159.17	69	ePKP	12	42.30	-2.1X
	1.3s	9.00nm				
ILT	162.18	323	iPKPc	12	43.20	-3.9X
	1.2s	15.00nm				

S.D. = 0.9 on 65 of 83 obs.

? MAY 22, 1993 14h 13m 18.87± 2.62s
2.104 S ±39.0km 102.324 E ±52.9km
DEPTH = 200.1 ± 20.2 km
4.7mb (7 obs.)
SOUTHERN SUMATERA, INDONESIA (274)

IPM	6.76	349	ePd	14	56.60	-0.2
LEM	7.06	132	iPd	15	01.00	0.2
PKI	33.70	332	P	19	43.40	-0.1
	0.4s	6.00nm				4.6mb
GUN	33.77	333	P	19	44.60	0.5
	0.4s	20.00nm				5.1mb
DMN	33.87	332	P	19	44.80	0.0
KKN	33.95	332	P	19	45.20	-0.2
	0.4s	17 00nm				5.0mb
GKN	34.43	332	P	19	49.60	0.2
	0.4s	13.00nm				4.9mb
WB2	35.96	122	iPd	20	02.10	-0.2
	0.4s	5.80nm				4.6mb
			ipP	20	13.80	42kmX
			i	22	43.70	
ASPA	37.33	128	iPd	20	15.00	1.2
	0.6s	9.70nm				4.6mb
STK	47.36	133	eP	21	33.40	-1.3
	0.6s	2.10nm				3 7mb

S.D. = 0.8 on 10 of 10 obs.

? MAY 22, 1993 14h 31m 50.07± 1.60s
41.116 N ±32.4km 28.510 E ±16.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

CTT	0.07	297	ePg	31	52.00	-0.4
ISK	0.42	97	ePg	31	58.00	-0.6
			eSg	32	01.00	
DMK	0.90	322	iPg	32	07.70	0.3
			iSg	32	19.00	
HRT	0.92	108	ePn	32	08.40	0.6

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

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* MAY 22, 1993 14h 41m 40.06± 0.69s
5.546 S ±12.2km 128.850 E ±22.1km
DEPTH = 33.0km (normal)
4.2mb (3 obs.)
BANDA SEA (280)

MTN	7.60	163	eP	43	32.00	0.7
KNA	10.14	180	eP	44	06.50	0.0
WB2	15.28	160	eP	45	10.40	-4.7X
	0.9s	7.00nm				3 9mb
			epP	45	21.20	
ASPA	18.66	165	eP	45	57.30	-0.4
	1.1s	19.10nm				4.2mb
			eS	49	40.00	
CTA	22.25	132	iPc	46	35.50	-0.4
KMI	39.67	321	eP	49	13.00	1.8
LZH	47.59	332	eP	50	15.00	0.0
	1.5s	14.00nm				4.8mb
			sP	50	22.00	
GUN	53.14	311	P	50	56.60	-1.0
PKI	53.32	310	P	50	58.60	-0.3
KKN	53.53	311	P	51	00.00	-0.3
DMN	53.57	310	P	51	00.40	-0.2

S.D. = 0.9 on 10 of 11 obs.

? MAY 22, 1993 14h 56m 49.22± 1.00s
26.424 S ± 7.4km 27.362 E ±12.6km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 1.9 (PRE).

PRY	0.51	169	eP	56	58.50	-1.0
			S	57	05.50	
KSR	0.70	323	eP	57	03.00	-0.2
			S	57	12.00	
SLR	1.07	51	iPd	57	10.00	0.0
			S	57	23.00	
SEK	1.91	173	eP	57	24.00	1.2
			S	57	47.00	

S.D. = 1.5 on 4 of 4 obs.

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* MAY 22, 1993 15h 02m 19.51± 2.41s
21.500 S ±19.7km 68.794 W ±19.2km
DEPTH = 33.0km (normal)
CHILE-BOLIVIA BORDER REGION (124)

YJA	3.13	103	iPc	03	08.20	0.1
CNCB	4.73	9	iPc	03	31.00	0.1
			e	04	23.00	
CCH	4.80	32	P	03	31.00	-0.7
LPB	4.98	8	P	03	35.20	0.7
			S	04	21.00	
ARE	5.62	333	eP	03	43.00	-0.3
			eS	04	44.00	

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

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* MAY 22, 1993 15h 30m 38.65± 0.98s
37.082 N ±12.7km 72.138 E ± 9.8km
DEPTH = 33.0km (normal)
3.7mb (1 obs.)
TAJIKISTAN (715)

QUE	8.12	214	eP	32 36.90	-0.5
NDI	9.40	152	e(P)	32 56.00	1.2
MAIO	10.18	269	eP	33 02.00	-3.7X
			eS	34 42.00	
KKN	14.44	126	P	34 02.60	-0.2
DMN	14.46	127	P	34 03.00	-0.1
PKI	14.68	126	P	34 05.60	-0.4
GUN	14.75	124	P	34 06.80	-0.2
	0.6s		32.00nm		4.9mb X
NB2	44.47	323	P	38 48.40	0.2
	0.7s		0.80nm		3.7mb
	S.D. = 0.7		on 7 of 8 obs.		

MAY 22, 1993 15h 34m 41.86± 0.36s
37.162 N ± 3.3km 117.742 W ± 3.3km
DEPTH = 5.0km (geophysicist)
CALIFORNIA-NEVADA BORDER REGION (40)
ML 2.9 (GS).

CWCR	0.56	307	P	34 52.72	-0.4
BHPR	0.61	283	P	34 54.31	0.2
BCKR	0.73	317	P	34 56.14	-0.4
CASR	0.77	303	P	34 57.20	-0.2
MRCM	0.79	310	ePn	34 57.46	-0.4
			eS	35 07.49	
ORC	0.87	303	P	34 58.22	-1.0
BONR	0.91	331	eP	34 59.77	-0.1
CLKR	0.96	297	P	35 00.67	-0.2
TNP	1.01	24	eP	35 02.15	0.6
			eS	35 15.20	
MCSM	1.05	298	P	35 02.35	0.1
MEMM	1.08	298	ePc	35 02.72	0.1
			eS	35 15.74	
MMPM	1.12	294	ePc	35 03.24	-0.3
			eS	35 16.75	
TPNV	1.21	100	(Pn)	35 04.34	-0.7
			ePg	35 06.81	
			eS	35 25.44	
WORM	1.52	196	P	35 13.26	3.5X
ISA	1.61	202	ePn	35 09.86	-1.2
			eS	35 33.46	
WOFM	1.80	206	P	35 17.50	3.6X
WJPM	1.85	199	P	35 17.90	3.3X
KVN	1.91	352	ePn	35 15.49	0.0
			ePg	35 17.72	
			eS	35 43.17	
GSC	2.01	158	ePn	35 17.03	0.2
MSTM	2.24	290	P	35 23.29	3.1X
CMB	2.27	293	(Pn)	35 21.46	0.8
			ePg	35 23.05	
			eS	35 49.81	
PARM	2.28	247	P	35 23.75	3.0X
MCUM	2.42	290	P	35 24.55	1.8
MRFM	2.45	297	P	35 27.20	3.9X
BRMM	2.49	263	P	35 26.55	2.8X
BMSM	2.50	259	P	35 26.54	2.7X
PHAM	2.52	239	(P)	35 22.32	-1.8X
ABL	2.60	208	ePn	35 25.51	0.0
			eS	36 03.17	
MNHM	2.63	293	P	35 30.53	4.9X
BCH	2.74	225	(Pn)	35 28.00	0.7
SSK	2.95	179	ePn	35 30.57	0.2
GHS	2.96	270	P	35 37.59	7.1X
CSTL	3.03	280	P	35 37.62	6.3X
ARN	3.03	275	(Pn)	35 34.50	3.1X
			eS	36 15.60	
JBZM	3.24	269	P	35 46.04	11.7X
MSU	4.61	71	(Pn)	35 54.38	0.3
			ePg	36 09.70	
DUG	4.90	50	(Pn)	36 07.12	9.0X
	S.D. = 0.7		on 22 of 37 obs.		

? MAY 22, 1993 15h 44m 29.78± 1.13s
56.645 N ±29.8km 157.906 W ±26.9km
DEPTH = 33.0km (normal)
ALASKA PENINSULA (12)
ML 3.7 (AEIC).

SDN	1.96	229	ePd	45 01.21	0.0
			eS	45 22.18	
KDC	3.15	67	eP	45 18.71	0.6
MCNL	3.18	35	P	45 20.10	1.5
			S	45 58.80	
SLKM	5.58	43	eP	45 51.76	-0.9
MPA	5.90	46	P	45 56.00	-1.1
HIN	7.06	53	P	46 11.30	-2.1X
VLZ	7.49	48	P	46 17.50	-1.9X
KLU	7.85	47	P	46 22.30	-2.3X
GLB	8.70	51	P	46 33.50	-2.9X
BALM	9.18	55	P	46 40.70	-2.3X
YAH	9.24	60	P	46 42.40	-1.5X
FBA	9.63	27	(P)	46 46.02	-3.0X
	S.D. = 1.5		on 5 of 12 obs.		

• MAY 22, 1993 16h 13m 56.22± 0.71s
51.815 N ±15.7km 171.836 W ± 7.0km
DEPTH = 33.0km (normal)
4.4mb (15 obs.) 4.3Msz (2 obs.)
FOX ISLANDS, ALEUTIAN ISLANDS (9)

ADK	3.01	273	ePc	14 41.66	-1.0
CP2	14.31	41	(P)	17 16.81	-1.6
SLKM	14.79	46	eP	17 22.46	-2.1
KLU	17.11	45	(P)	17 47.60	-6.6X
BALM	18.58	49	eP	18 04.16	-8.3X
INK	24.65	34	eP	19 15.50	0.9
	0.5s		2.00nm		3.9mb
MBC	31.60	21	eP	20 18.00	0.5
	1.0s		2.00nm		3.9mb
NEW	34.63	74	eP	20 43.14	-1.0
	0.9s		15.19nm		4.9mb
BONR	39.48	89	eP	21 30.59	5.2X
			e	21 38.55	
ABL	40.89	93	(P)	21 44.55	7.7X
DUG	41.52	82	eP	21 41.75	-0.1
	1.0s		4.82nm		4.2mb
GSC	42.10	91	eP	21 47.11	0.5
			e	21 58.09	
FCC	42.46	49	eP	21 58.00	8.9X
BJI	49.48	286	eP	22 55.00	10 0X
	Z 20s		0.30um		4.3Msz
FRB	50.30	34	eP	22 50.50	-0.5
	1.0s		4.00nm		4.4mb
JAQ	53.71	47	eP	23 16.00	-0.7
LTX	54.29	87	eP	23 10.56	-10.9X
LZH	59.37	290	eP	23 57.00	-0.6
	1.8s		30.00nm		5.1mb
	Z 20s		0.25um		4.3Msz
			sP	24 08.00	
LMN	64.30	48	eP	24 32.00	1.7
NB2	67.47	358	P	24 49.70	-0.7
	0.8s		2.50nm		4.4mb
KMI	67.92	283	eP	24 53.00	-0.9
HFS	68.32	357	eP	24 54.00	-1.6
	0.4s		2.40nm		4.6mb
HFS	68.32	357	eP	24 57.90	2.3X
	0.3s		0.60nm		4.1mb
GUN	75.63	297	P	25 39.40	-0.6
	0.8s		21.00nm		5.2mb
KKN	76.06	297	P	25 42.00	-0.3
PKI	76.16	297	P	25 42.20	-0.8
GKN	76.25	298	P	25 43.00	-0.2
DMN	76.29	297	P	25 43.60	0.0
CLL	77.17	357	iP	25 47.40	-0.4
BRG	77.57	356	eP	25 50.40	0.4
MOX	77.87	358	e(P)	25 52.60	0.9
PRU	78.43	356	P	25 55.50	0.8
GRF	78.84	358	ePc	25 58.00	1.0
	1.0s		14.00nm		4.9mb
KHC	79.33	356	P	26 01.00	1.3
	1.0s		3.70nm		4.3mb
GEC2	79.61	356	P	26 01.50	0.2
	0.8s		2.25nm		4.2mb
			e	26 12.70	
			e	26 15.70	
ZST	80.08	354	eP	26 04.20	0.5
WTTA	81.26	358	iPd	26 11.50	1.3
KBA	81.39	356	iPc	26 12 00	1.2
	0.8s		8 90nm		4 8mb
WRA	85.47	230	P	26 41.50	9.8X
	0.6s		0.40nm		3.8mb
SKO	85.88	350	eP	26 34.50	0.9
VAY	86.40	349	eP	26 37.00	0.9
	S.D. = 1.0		on 32 of 41 obs.		

• MAY 22, 1993 16h 30m 08.98± 1.25s
37.303 N ±12.4km 28.420 E ± 8 8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 3.1 (ISK).

CIN	0.40	318	iPgc	30 17.00	-0.1
			iSg	30 27.00	
ELL	1.31	115	ePn	30 33.60	0.3
KHL	1.34	40	ePn	30 33.70	0.0
IZM	1.43	320	ePn	30 34.90	0.0
BCK	1.73	84	ePn	30 39.00	-0.4
DST	2.30	4	ePn	30 48.00	0.4
	S.D. = 0.4		on 6 of 6 obs.		

• MAY 22, 1993 17h 22m 41.92± 2.41s
25.244 S ±15.5km 179.966 E ±19.4km
DEPTH = 520.1 ± 25.5 km
4.4mb (5 obs.)
SOUTH OF FIJI ISLANDS (171)

DZM	12.79	282	iPc	25 30.40	0.9
URZ	13.20	190	eP	25 32.60	-0.9
NOZ	13.43	187	eP	25 36.70	0.8
			eS	27 55.10	
ORZ	16.73	200	P	26 09.10	0.3
KHZ	17.93	196	eP	26 20.40	0.0
LTZ	18.61	198	eP	26 26.40	-0.6
BRS	24.45	259	eP	27 17.00	-4.0X
HNR	24.69	306	eP	27 22.00	-1.1
ARMA	25.55	252	iPc	27 31.70	0.9
	0.4s		3.00nm		4.2mb
CTA	31.48	272	iPc	28 22.50	0.3
	1.0s		12.50nm		4.4mb
ASPA	41.80	262	iPd	29 46.90	-0.3
	0.4s		8.30nm		4.6mb
WB2	42.29	268	iPd	29 50.40	-0.6
	0.4s		14.20nm		4.9mb
WRA	42.30	268	P	29 50.70	-0.4
	0.6s		2.90nm		4.0mb
NB2	143.40	351	PKP	41 18.00	0.3
	0.5s		1.90nm		
HFS	143.85	348	ePKP	41 18.80	0.4
	0.3s		3.60nm		
	S.D. = 0.8		on 14 of 15 obs.		

MAY 22, 1993 18h 25m 37.92± 0.68s
38.022 N ± 6.9km 20.984 E ± 3.7km
DEPTH = 10.0km (geophysicist)
3.7mb (3 obs.)
GREECE (364)
MD 3.4 (ATH).

VLS	0.35	297	ePg	25 45.50	0.4
AGG	1.45	46	ePb	26 04.12	-0.1
			eSb	26 29.30	
IGT	1.59	342	ePn	26 06.80	0.6
			eSn	26 34.00	
KEK	1.93	332	ePg	26 15.50	4.5X
SRN	2.01	338	ePn	26 16.70	4.5X
			iSn	26 50.20	
VLI	2.03	129	ePn	26 14.00	1.5
KZN	2.36	15	ePn	26 20.00	2.6X
LIT	2.38	29	ePn	26 18.12	0.5
			eSn	26 53.60	
TPE	2.39	342	iPn	26 17.50	-0.3
FNA	2.77	6	ePn	26 23.40	0.1
			eSn	27 03.80	
PAIG	2.83	47	ePn	26 23.64	-0.4
THE	3.03	30	ePn	26 26.56	-0.1
OHR	3.09	357	iPn	26 29.80	2.2
			i	26 36.30	
			i	27 15.20	
			i	27 26.10	
GRG	3.13	20	ePn	26 28.84	0.6
			eSn	27 12.10	
OUR	3.28	44	ePn	26 29.80	-0.5
LCI	3.30	315	P	26 28.70	-1.9
SOH	3.34	33	iPn	26 31.60	0.3
TIR	3.43	346	ePn	26 32.50	0.0
KNT	3.47	25	ePn	26 32.56	-0.4
			eSn	27 20.20	
VAY	3.51	20	iPn	26 33.30	-0.3
SRS	3.69	32	ePn	26 36.00	-0.2
LACI	3.74	345	ePn	26 37.50	0.6
SKO	3.96	5	ePn	26 40.30	0.3
			i	26 53.80	
TDS	3.98	296	P	26 42.40	2.1
CZI	3.98	289	P	26 40.90	0.6
CSI	4.06	297	P	26 42.60	1.2
BRT	4.09	315	P	26 42.10	0.3
ATN	4.36	274	P	26 45.80	0.1
MGR	4.72	298	P	26 50.40	-0.5
ALN	4.86	52	ePn	26 51.00	-1.7
MEU	4.90	261	P	26 51.10	-2.3
MNO	4.97	271	P	26 53.80	-0.7

22d 18h

SGO 5.08 302 P 26 56.50 0.6
DUI 6.20 308 P 27 12.10 0.4
SDI 6.63 306 P 27 17.20 -0.6
ASS 8.10 311 P 27 39.00 0.6
ARV 8.19 314 P 27 38.20 -1.5
VBY 8.61 332 ePn 27 45.00 -0.4
eSn 29 17.00
CRE 8.84 312 P 27 50.90 2.1
PGD 9.12 313 P 27 51.20 -1.5
CEY 9.13 330 ePn 27 52.00 -0.6
eSn 29 31.00
VOY 9.58 329 ePn 27 58.80 -0.1
eSn 29 40.00
CTI 10.60 322 P 28 11.20 -1.7
HFS 22.61 350 eP 30 38.40 -1.4
0.4s 1.30nm 3.8mb
EKA 23.77 325 P 30 53.00 2.0
0.9s 3.60nm 3.9mb
NB2 23.84 348 P 30 52.20 0.4
0.6s 0.50nm 3.3mb
S.D. = 1.1 on 43 of 46 obs.

% MAY 22, 1993 19h 02m 44.83± 0.81s
39.203 N ± 6.6km 27.847 E ± 7.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

DST 0.73 56 iPg 02 58.60 -0.5
eSg 03 10.00
IZM 0.92 210 ePg 03 02.50 0.0
eSg 03 17.00
KCT 1.12 20 iPn 03 05.60 -0.2
EDC 1.14 1 ePn 03 07.00 0.8
BNT 1.15 3 ePn 03 05.80 -0.6
KGT 1.32 342 iPn 03 08.80 -0.3
EZN 1.33 298 iPn 03 09.40 0.0
YLV 1.80 40 ePn 03 17.00 0.8
S.D. = 0.6 on 8 of 8 obs.

% MAY 22, 1993 19h 09m 31.90± 0.58s
44.360 N ± 5.6km 7.983 E ± 4.1km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.9 (GEN).

ROB 0.10 231 P 09 34.56 -0.2
S 09 36.43
FIN 0.22 133 P 09 36.57 -0.1
S 09 39.96
ENR 0 43 252 P 09 40.96 0.4
S 09 47.28
PCP 0.44 65 P 09 41.01 0.1
S 09 47.14
IMI 0.45 189 P 09 41.29 0.1
S 09 47.69
STV 0 49 256 P 09 41.61 -0.2
S 09 48.33
PZZ 0.65 283 P 09 44.81 -0.2
S 09 53.69
BHB 0.70 313 P 09 45.86 0.0
S.D = 0.2 on 8 of 8 obs.

? MAY 22, 1993 19h 37m 36.89± 3.31s
30.956 S ±47.6km 69.167 W ±18.2km
DEPTH = 120.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)

RTCB 0.62 149 iPd 37 55.70 -0.3
S 38 07.70
RTLL 0.70 122 iPc 37 56.70 0.1
ZON 0.72 145 iPd 37 56.70 0.0
eS 38 09.70
RTBS 0.74 199 iPd 37 56.90 0.1
CFA 1.03 129 eP 37 59.70 0.2
S 38 14.70
MDZ 1.94 172 eP 38 29.40 19.3X
MRA 3.29 117 ePc 38 27.60 0.0
S 39 02.80
TCA 3.94 97 iPc 38 36.60 0.0
S 39 19.50
S.D. = 0.2 on 7 of 8 obs.

MAY 22, 1993 19h 46m 07.37± 1.20s
27.504 N ± 6.5km 140.142 E ± 9.3km
DEPTH = 451.2 ± 12.3 km
4.5mb (20 obs.)

BONIN ISLANDS REGION (212)

MAT 9.16 350 eP 48 17.00 0.1
0.9s 16.81nm 4.4mb
eS 50 00.00
BJI 23.44 308 eP 50 39.50 -1.5
LZH 31.87 295 Pd 51 55.20 -0.2
1.0s 27.00nm 4.6mb
KMI 33.53 275 Pd 52 10.00 0.4
1.5s 50.00nm 4.7mb
CHTO 38.71 266 eP 52 52.50 0.2
WB2 47.50 187 iPc 54 01.40 -0.3
0.4s 3.60nm 4.2mb
epP 54 25.80 103kmX
ePcP 55 41.20
eScP 58 33.10
iS 59 24.50
WRA 47.50 187 P 54 01.90 0.2
0.5s 2.20nm 3.8mb
GUN 47.70 284 P 54 04.20 0.5
PKI 48.18 283 P 54 07.40 0.0
0.8s 24.00nm 4.7mb
KKN 48.24 284 P 54 07.80 0.1
0.8s 47.00nm 5.0mb
DMN 48.43 284 P 54 09.40 0.2
0.8s 36.00nm 4.9mb
GKN 48.75 284 P 54 11.60 0.1
1.0s 54.00nm 4.9mb
ASPA 51.23 187 iPd 54 29.20 -0.4
0.4s 5.60nm 4.2mb
GBA 59.77 270 P 55 30.00 0.2
0.6s 3.50nm 4.0mb
QUE 63.11 292 eP 55 52.00 0.4
MBC 65.97 15 eP 56 10.00 1.2
MAIO 67.21 300 eP 56 18.00 0.8
OBN 75.14 325 iPd 57 03.00 -0.2
1.0s 18.00nm 4.7mb
KAF 76.31 334 iP 57 09.70 0.2
0.6s 15.90nm 4.8mb
NUR 77.88 333 iP 57 17.80 -0.2
0.3s 3.30nm 4.4mb
UPP 81.05 334 iP 57 34.60 0.0
HFS 82.32 336 eP 57 40.30 -0.9
0.4s 2.00nm 4.2mb
NB2 82.55 338 P 57 42.40 0.0
0.8s 12.10nm 4.6mb
CLL 88.80 330 e(P) 58 12.00 -0.8
GEC2 90.21 328 P 58 18.60 -0.9
0.9s 3.18nm 4.2mb
e 00 24.00
GRF 90.75 330 ePKP 58 22.80 0.9
EKA 91.72 340 P 58 27.00 0.8
0.8s 1.70nm 4.1mb
LPL 95.89 329 eP 58 45.20 -0.5
0.6s 2.00nm 4.5mb
LPG 95.89 329 eP 58 45.50 -0.3
0.7s 2.10nm 4.5mb
CNCB 151.93 74 PKP 05 13.50 7.9X
S.D. = 0.6 on 29 of 30 obs.

% MAY 22, 1993 20h 26m 10.64± 1.38s
44.558 N ± 5.8km 6.836 E ±11.7km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.2 (GEN).

PZZ 0.20 106 P 26 15.34 0.3
S 26 18.54
RRL 0.36 354 P 26 18.13 -0.1
S 26 23.35
BHB 0 42 47 P 26 19.05 -0.1
S 26 24.60
STV 0.47 132 P 26 20.10 -0.1
S 26 26.49
ENR 0 53 128 P 26 21.52 0.0
S 26 28.61
RSP 0.66 27 P 26 23.76 -0.2
ROB 0 79 109 P 26 25.07 -0.9
S 26 36.89
LSD 0.93 14 P 26 28.75 0.2
IMI 1.00 130 P 26 29.78 0.2
FIN 1.04 109 P 26 30.61 0.2
PCP 1.22 90 P 26 33.75 0.3
S.D. = 0.4 on 11 of 11 obs.

? MAY 22, 1993 21h 03m 52.11± 0.96s
26.393 S ± 7.0km 27.485 E ±11.2km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.2 (PRE).

PRY 0.53 181 eP 04 02.00 -0.8
S 04 08.00
KSR 0.75 315 eP 04 07.00 0.0
S 04 15.50
SLR 0.97 48 eP 04 11.00 -0.1
S 04 22.20
SEK 1.93 176 eP 04 27.00 1.0
S 04 52.50
S.D. = 1.3 on 4 of 4 obs.

? MAY 22, 1993 21h 21m 09.37± 3.27s
39.712 N ±21.4km 27.603 E ±19.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

EDC 0.67 17 ePg 21 23.00 0.4
KGT 0.77 343 iPg 21 24.30 -0.1
iSg 21 37.00
KCT 0.79 47 iPg 21 24.40 -0.3
DST 0.80 97 ePg 21 25.00 0.1
eSg 21 37.00
S.D. = 0.6 on 4 of 4 obs.

% MAY 22, 1993 21h 25m 33.43± 0.73s
40.816 N ± 5.6km 27.890 E ± 7.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

EDC 0.47 182 ePg 25 43.50 0.5
eSg 25 50.50
CTT 0.53 51 iPg 25 43.80 -0.3
KGT 0.58 231 iPg 25 44.80 -0.3
eSg 25 52.80
KCT 0.67 148 iPg 25 46.30 -0.4
eSg 25 55.80
ISK 0.92 74 ePn 25 51.30 0.3
DMK 1.01 354 iPn 25 52.70 0.2
S.D. = 0.5 on 6 of 6 obs.

? MAY 22, 1993 21h 48m 01.35± 4.31s
43.334 N ±31.1km 11.241 E ±13.1km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

FIR 0.44 1 ePg 48 10.50 0.1
iSg 48 14.50
CRE 0.59 60 P 48 13.60 0.1
eSg 48 21.20
SFI 0.74 37 P 48 15.50 -0.2
eSg 48 22.20
BDI 0.86 328 P 48 18.00 0.0
eSg 48 29.30
S.D. = 0.3 on 4 of 4 obs.

% MAY 22, 1993 22h 27m 56.12± 0.87s
26.365 S ± 6.8km 27.600 E ±10.9km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.4 (PRE).

PRY 0.57 191 eP 28 07.00 -0.6
S 28 14.00
KSR 0.81 308 eP 28 12.50 0.2
S 28 23.00
SLR 0.88 44 iPd 28 13.30 -0.2
S 28 23.50
SEK 1.95 179 eP 28 31.50 1.1
S 28 57.50
BLF 3.01 204 eP 28 45.00 -0.4
S.D. = 1.0 on 5 of 5 obs.

? MAY 22, 1993 22h 43m 34.66± 3.99s
31.127 S ±82.4km 68.997 W ±25.2km
DEPTH = 120.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTCB 0.40 155 ePd 43 52.00 -0.4
RTLL 0.50 114 iPc 43 53.00 0.1
ZON 0.50 147 iPd 43 53.10 0.2
eS 44 04.10
RTBS 0.66 216 e(P)d 43 54.00 0.1

```
CFA      0.81 127 iPc    43 55.20   0.0
                  S      44 09.00
      S.D. = 0.3   on   5 of   5 obs.
-------------------------------------
%  MAY  22, 1993  22h 51m 44.98± 1.10s
   15.763 N ± 7.0km   60.879 W ±14.1km
   DEPTH =  29.8 ±  6.2 km
 LEEWARD ISLANDS                 ( 92)
      ML 2.9 (FDF).

MGG      0.45 290 eP     51 54.70   0.1
DEG      0.57 342 eP     51 56.60   0.0
DOG      0.76 291 iPc    51 59.61   0.1
PAG      0.81 289 iPc    52 00.35   0.0
                  S      52 10.93
CRM      1 00 182 eP     52 02.80  -0.2
                  S      52 14.80
FDF      1.06 194 eP     52 03.39  -0.4
                  S      52 15.00
MVM      1.20 181 iPd    52 06.21   0.4
                  S      52 20.80
BIM      1.25 189 eP     52 06.81   0.2
                  S      52 22.10
MGH      1.60 307 eP     52 11.40  -0.2
      S.D. = 0.3   on   9 of   9 obs.
-------------------------------------
?  MAY  22, 1993  22h 55m 45.41± 1.08s
   12.775 N ±19.1km   88.841 W ±30.1km
   DEPTH =  33.0km  (normal)
 OFF COAST OF CENTRAL AMERICA    ( 76)
      Felt (II) at San Salvador, El
      Salvador.

LFU      1.00 345 iPd    56 03.30   0.0
TME      1.33 338 iPd    56 07.80  -0 1
CUSS     1.56 316 eP     56 11.20   0.0
YPE      1.57 329 iPd    56 11.50   0.0
MOCB    40.78 146 P      03 25.90   0.0
      S.D. = 0.1   on   5 of   5 obs.
-------------------------------------
*  MAY  22, 1993  22h 56m 15.42± 2.32s
   35 529 S ±18.7km   70.824 W ±16.3km
   DEPTH =  33 0km  (normal)
 CHILE-ARGENTINA BORDER REGION   (127)

CHCH     1.60   5 iP     56 40.37  -1.4
                  iS     56 59.53
LNV      1.64 343 iP     56 42.12  -0.2
                  iS     57 02.35
TACH     1.87 357 iP     56 45.15  -0.6
                  iS     57 07.70
PCH      1 92   8 iP     56 45.82  -0.7
                  iS     57 08.88
RFA      2 08  69 iPd    56 48.60  -0.1
SAN      2.08   4 iP     56 48.17  -0.5
                  iS     57 13.21
LCCH     2.14 343 iP     56 50.02   0.5
                  iS     57 16.38
FCH      2 24  12 iP     56 51.43   0.2
                  iS     57 18.53
PEL      2 38   3 iPd    56 53.50   0.4
                  iS     57 22.01
ROCH     2.56 356 iP     56 56.49   0.8
                  iS     57 27.63
JACH     2.85   4 iP     57 00.85   1.2
                  iS     57 34.87
MDZ      3 11  32 i(P)   57 09.40   6.1X
RTBS     4.02  17 ePd    57 20.00   3.7X
ZON      4 36  25 eP     57 23.20   2.1
FSA     10.28  25 ePd    58 43.10  -0.6
MOCB    14.94  19 P      59 46.70   0 4
CNCB    18.81   8 P      00 36.20   0.9
LPB     19.08   8 eP     00 36.00  -2.3
PPD     21.70  57 eP     01 04.50  -1.0
KIC     74.63  70 P      07 54.30   0.8
      S.D. = 1.1   on  18 of  20 obs.
-------------------------------------
&  MAY  22, 1993  22h 56m 32.38s
   33.950 N          116.627 W
   DEPTH =  15.2km
 SOUTHERN CALIFORNIA             ( 43)
      <PAS-P>. ML 2.9 (PAS), 2.7 (GS).

PEC      0.45 263 ePc    56 40.72  -0.7
                  eS     56 46.72
PLM      0 63 198 iPd    56 44.26  -0.4
                  eS     56 51.94

SSK      0.92 287 ePc    56 49.09  -0.6
                  eS     57 00.89
GSC      1.36 354 ePd    56 55.73  -1.0
                  eS     57 14.61
GLA      1.75 120 ePn    57 00.94  -1.4
                  eS     57 26.47
ABL      2.33 293 ePn    57 10.24  -0.6
TPNV     3.01   6 ePn    57 19.46  -1.0
BONR     4.22 342 (Pn)   57 38.84   1.0
      8 obs. associated
-------------------------------------
%  MAY  22, 1993  22h 57m 23.18± 0.62s
   40.649 N ± 5.0km   27.508 E ± 5.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 3.1 (ISK).

KGT      0.25 218 iPg    57 28.70   0.2
EDC      0.41 138 iPg    57 32.00   0.5
                  iSg    57 38.00
BNT      0.43 133 iPg    57 31.70  -0.2
                  eSg    57 38.70
KCT      0.76 121 iPg    57 37.50  -0.6
CTT      0.86  54 iPg    57 39.20  -0.5
DMK      1.19   9 ePn    57 45.70   0.4
EZN      1.22 228 iPn    57 45.50  -0.4
ISK      1.25  70 iPn    57 45.70  -0.6
YLV      1.42  93 ePn    57 49.70   0.6
EYL      2.02  91 ePn    57 58.40   0.6
      S.D. = 0.6   on  10 of  10 obs.
-------------------------------------
%  MAY  22, 1993  23h 07m 06.64± 0.70s
   28.014 S ± 6.8km   26.742 E ± 9.0km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA        (584)
      ML 3.1 (PRE).

SEK      0.84 112 iPd    07 23.50   0.1
                  S      07 31.00
BFS      1.11   2 eP     07 26.90  -1.2
                  S      07 42.10
BLF      1.19 204 iPc    07 31.50   2.0
                  S      07 47.00
PRY      1.26  31 eP     07 30.00  -0.6
                  S      07 47.60
SWZ      1.51 303 eP     07 36.00   1.5
                  S      07 54.00
FRS      2.13 215 iPd    07 43.00  -0.3
                  S      08 11.50
KSR      2.14   4 eP     07 44.50   0.8
                  S      08 11.00
SLR      2.65  32 iPc    07 51.60   0.6
                  S      08 19.70
SUR      6.73 228 eP     08 48.00  -0.7
                  S      10 00.50
CER      8.34 228 eP     09 09.00  -2.1
                  S      10 43.00
      S.D. = 1.4   on  10 of  10 obs.
-------------------------------------
&  MAY  23, 1993  00h 06m 46.70s
   59.827 N          153.473 W
   DEPTH = 113.9km
 SOUTHERN ALASKA                 (  2)
      <AEIC>.

INW      0.30  35 eP     07 02.54   0.8
                  eS     07 15.16
INE      0.31  41 eP     07 02.67   0.8
ILIM     0.36  45 eP     07 02.68  -0.8
                  eS     07 16.20
PDB      0.37 264 eP     07 02.77  -0.7
                  eS     07 14.53
AUL      0.45 177 iP     07 03.37  -0.5
AUH      0.46 178 eP     07 03.56  -0.5
AUE      0.47 174 eP     07 03.39  -0.6
AUI      0.49 177 eP     07 03.56  -0.6
                  eS     07 17.45
RDW      0.74  26 eP     07 06.64   0.4
MCNL     0.78 215 eP     07 05.42  -1.0
NCT      0.79  20 eP     07 05.78  -0.8
                  eS     07 21.29
DFR      0.86  27 eP     07 06.24  -1.0
                  eS     07 22.56
CDD      0.90 186 eP     07 06.48  -1.1
                  eS     07 22.42
XLV      0.96 112 eP     07 06.78  -1.4
CNPM     1.17 104 eP     07 08.57  -1.8

                  eS     07 26.20
BRLK     1.31  92 eP     07 10.24  -1.7
                  eS     07 28.64
SYI      1.34 155 eP     07 10.47  -1.8
                  eS     07 29.79
NKA      1.44  49 eP     07 13.71   0.3
CKL      1.48  22 eP     07 12.80  -1.3
                  eS     07 34.05
CKT      1.51  24 eP     07 12.89  -1.5
SPU      1.53  27 iP     07 12.94  -1.6
BGL      1.54  20 eP     07 13.56  -1.1
CKN      1.54  24 eP     07 13.24  -1.4
CP2      1.57  22 iP     07 14.00  -1.1
CPAM     1.58  24 eP     07 13.94  -1.2
CRP      1.58  24 iP     07 14.06  -1.3
CGLM     1.65  25 iP     07 14.60  -1.5
SLKM     1.76  66 eP     07 15.14  -2.2
SUA      2.12  38 eP     07 20.16  -1.9
KDC      2.15 166 eP     07 18.35  -3.8
                  eS     07 43.53
MPA      2.16  70 eP     07 20.09  -2.3
SKT      2.36  23 eP     07 23.00  -2.0
PMS      2.40  52 P      07 23.10  -2.5
PTE      2.44  63 eP     07 22.86  -3.2
PWA      2.54  42 P      07 26.30  -1.1
PLRM     2.77  48 eP     07 27.84  -2.6
GHO      2.96  47 eP     07 29.25  -3.8
SML      3.21  49 eP     07 32.34  -4.0
HIN      3.54  78 eP     07 37.50  -3.3
VLZ      3.77  67 eP     07 39.97  -3.9
KLU      4.08  63 eP     07 43.56  -4.6
      41 obs. associated
-------------------------------------
%  MAY  23, 1993  00h 31m 33.03± 0.72s
   26.362 S ± 5.5km   27.461 E ± 7.2km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA        (584)
      ML 2.6 (PRE).

PRY      0.56 179 eP     31 43.50  -0.8
                  S      31 51.00
KSR      0.71 314 eP     31 46.90  -0.3
                  S      31 55.50
BFS      0.81 228 eP     31 49.00  -0.3
                  S      31 59.70
SLR      0.97  50 eP     31 52.00   0.0
                  S      32 03.50
SEK      1.96 176 eP     32 08.00   0.6
                  S      32 32.00
SWZ      2.08 246 eP     32 09.60   0.5
                  S      32 35.00
BLF      2.96 202 eP     32 22.00   0.3
                  S      32 56.50
      S.D. = 0.6   on   7 of   7 obs.
-------------------------------------
   MAY  23, 1993  01h 44m 39.68± 0.31s
    9.087 N ± 6.0km   85.552 W ± 5.3km
   DEPTH =  33.0km  (normal)
   4.8mb ( 49 obs.)  4.7Msz (  5 obs.)
 OFF COAST OF COSTA RICA         ( 77)
      Mw 5.3 (HRV).
      CENTROID, MOMENT TENSOR    (HRV)
      Data Used: GDSN
      L.P.B.: 20S, 27C
      Centroid Location:
      Origin Time        01:44:36.9 1.0
      Lat  8.80N 0.12 Lon  85.26W 0.08
      Dep  15.0 FIX Half-duration  1.1
      Moment Tensor;   Scale 10**16 Nm
        Mrr=-3.55 0.40  Mtt= 2.65 0.64
        Mff= 0.90 0.73  Mrt= 6.16 1.80
        Mrf=-7.50 2.21  Mtf= 6.48 0.42
       Principal Axes:
        T  Val=  8.33  Plg= 3  Azm=136
        N        5.55       47       43
        P      -13.88       43      230
      Best Double Couple:Mo=1.1*10**17
       NP1:Strike=264 Dip=58 Slip= -31
       NP2:         11      64      -144

TPX      8.75 312 (P)    46 56.00  -0.9
PSO     11.34 133 eP     47 23.00   0.1
BOG     12.23 110 eP     47 32.00  -2.9X
                  eS     49 58.00
IISM    15.11 312 (P)    48 11.00  -1.4
ACX     15.94 300 (P)    48 28.00   4.8X
PPM     16.09 309 (P)    48 26.50   0.8
```

23d 01h

IIA 16.16 310 (P) 48 27.00 0.9
III 16.36 306 (P) 48 34.00 5.2X
UNM 16.67 309 (P) 48 34.00 1.2
MRX 18.45 307 (P) 48 56.00 1.4
HBF 24.21 11 eP 49 54.12 -0.2
GOGA 24.28 4 eP 49 55.38 0.3
1.0s 29.39nm 4.8mb
PRM 25.05 6 eP 50 02.58 0.1
JSC 25.38 8 ePc 50 05.65 0.1
UYO 26.27 343 iPd 50 11.70 -2.2
LTX 26.35 322 eP 50 15.12 0.3
MIAR 26.39 345 eP 50 13.19 -1.7
0.9s 11.34nm 4.5mb
GBTN 26.48 2 eP 50 16.55 0.7
TKL 26.50 3 eP 50 17.81 1.8
MEO 28.23 337 iPc 50 30.10 -1.6
ACO 30.13 338 iPc 50 47.00 -1.8
LPB 30.76 146 P 50 56.00 1.0
CNCB 31.05 146 P 50 57.70 0.0
ALQ 32.07 326 eP 51 06.51 0.4
1.0s 12.70nm 4.8mb
CCH 32.56 144 eP 51 09.00 -1.6
SIV 34.76 136 P 51 39.20 9.8X
GOL 35.25 333 eP 51 33.20 -0.4
1 0s 16.39nm 4.9mb
MOC8 35.94 147 P 51 39.20 -0.6
RSNY 36.60 13 eP 51 43.28 -1.3
0.8s 8.30nm 4.7mb
SRU 37.33 327 (P) 51 51.64 0.6
GAC 37 50 12 eP 51 52.50 0.4
EEO 37 83 7 eP 51 56.50 1.6
ARUT 38.06 323 eP 51 59.07 1.9
PEC 38.12 315 eP 51 58.10 0.5
0.8s 12.56nm 4.8mb
RSSD 38.42 338 eP 51 59.23 -1.0
0 8s 6.66nm 4.5mb
DAU 38.67 328 eP 52 01.96 -0.5
DUG 39.35 326 eP 52 07.61 -0.3
1.0s 9.36nm 4.5mb
BW06 39.61 332 eP 52 09.21 -0.9
1.0s 14.79nm 4.7mb
HVU 40.45 328 eP 52 17.44 0.5
CBM 40.53 18 eP 52 15.26 -2.1
2.0s 45.21nm 4.9mb
TNP 40.56 320 (P) 52 16.88 -1.1
1.2s 15.45nm 4.6mb
LMN 40.74 22 ePc 52 22.00 2.9X
BONR 41.18 319 eP 52 22.87 -0.3
kVN 41.70 321 (P) 52 27.23 0.0
ULM 41.92 350 eP 52 30.50 1.8
CMB 42.57 318 ePc 52 40.68 6.4X
3.5s 110.00nm 5.0mb X
iS 59 07.68
eSS 02 36.68
eLQ 04 47.68
eLR 06 14.68
LRM 43.27 333 eP 52 41.10 0.9
BKS 43.72 317 eP 52 48.09 4.5X
3.0s 350.00nm 5.6mb
iS 59 26.09
eLQ 04 58.09
eLR 06 21.09
ORV 44.14 319 eP 52 48.30 1.3
JAQ 45.29 8 eP 52 54.00 -2.0
PPD 45.65 133 eP 52 58.40 -0.8
DPW 47.48 330 (P) 53 13.91 0.5
VAO 49 43 131 eP 53 28.00 -0.9
FCC 49.99 354 eP 53 40.50 8.0X
FRB 55.91 9 eP 54 14.00 -2.4
0.6s 2.00nm 4.3mb
BALM 66.40 334 (P) 55 27.58 0.0
INK 66.95 343 eP 55 32.00 1.2
1.0s 10.00nm 4.9mb
KLU 68.17 333 (P) 55 36.85 -1.8
MBC 69.59 352 eP 55 47.50 0.4
1.0s 6.00nm 4.6mb
FBA 70.24 336 eP 55 50.73 -0.5
0.7s 2.93nm 4.5mb
TTA 73.10 333 eP 56 07.18 -1.3
1.5s 8.95nm 4.5mb
MAL 77.55 54 iPc 56 36.20 2.0
EKA 78.26 35 P 56 37.00 -0.7
0.9s 6.40nm 4.6mb
LPF 79.65 43 eP 56 45.50 0.1
1.3s 33.95nm 5.2mb
GRR 79.76 42 eP 56 46.30 0.3
0.9s 18.20nm 5.1mb

FLN 79.99 42 eP 56 47.70 0.4
1.3s 36.80nm 5.2mb
Z 22s 0.55um 4.9Msz
LDF 80.24 42 eP 56 48.90 0.3
0.8s 9.25nm 4.8mb
MFF 80.32 44 eP 56 49.40 0.3
0.9s 12.30nm 4.9mb
EPF 80.88 48 eP 56 52.80 0.6
0.9s 7.20nm 4.7mb
LFF 81.04 46 eP 56 53.30 0.4
0.9s 7.85nm 4.7mb
LPO 81.37 46 eP 56 55.10 0.5
1.0s 14.00nm 4.9mb
LSF 81.50 44 eP 56 55.40 0.1
RJF 81.56 45 eP 56 55.90 0.3
1.1s 13.45nm 4.9mb
Z 21s 0.30um 4.6Msz
TCF 81.96 44 eP 56 57.80 0.1
1.1s 9.30nm 4.7mb
CAF 81.97 46 eP 56 58.20 0.4
1.2s 11.60nm 4.8mb
HYF 82.18 43 eP 56 58.30 -0.5
MAF 82.22 44 eP 56 59.20 0.2
1.1s 10.25nm 4.8mb
BGF 82.38 44 eP 57 00.00 0.1
0.8s 5.65nm 4.7mb
AVF 82.71 44 eP 57 01.30 -0.2
0.9s 3.75nm 4.5mb
SSF 82.78 44 eP 57 01.60 -0.4
1.0s 4.00nm 4 5mb
LOR 83.00 43 eP 57 02.90 -0.2
0.7s 3.10nm 4.5mb
Z 23s 0.45um 4.8MszX
SMF 83.05 44 eP 57 03.10 -0.3
1.0s 6.80nm 4.7mb
DOU 83.20 40 P 57 04.90 0.9
WLF 84.25 41 P 57 09.00 -0.3
HAU 84.59 42 eP 57 10.50 -0.6
0.8s 4.05nm 4.7mb
Z 23s 0.43um 4.8MszX
BSF 84 91 43 eP 57 11.90 -0.9
1.0s 7.80nm 4.9mb
CDF 85.15 42 eP 57 13.30 -0.7
1.0s 6.20nm 4.8mb
LPL 85.19 45 eP 57 14.40 0.0
0.7s 2.20nm 4.5mb
LPG 85.20 45 eP 57 14.50 -0.1
LRG 85.21 47 eP 57 13.90 -0.3
1.0s 6.80nm 4.8mb
LMR 85.33 47 eP 57 14.50 -0.4
1.1s 8.30nm 4.9mb
NB2 85.39 29 P 57 15.20 0.3
1.1s 12.10nm 5.0mb
FRF 85.40 47 eP 57 14.00 -1.2
SBF 85.92 46 eP 57 17.40 -0.5
1.1s 19 55nm 5.2mb
MMK 85.96 44 Pc 57 20.00 1.7
ZLA 86.03 43 Pc 57 18.80 0.4
SLE 86.05 42 Pc 57 18.90 0.4
LLS 86.54 43 ePc 57 22.00 0.9
TMA 86.58 44 ePc 57 20.80 -0.5
PGF 87.26 48 eP 57 23.80 -0.7
0.9s 7.85nm 5.0mb
OSS 87.34 43 ePc 57 25.80 0.8
GRF 87.50 40 ePd 57 26.20 0.8
1.5s 23.00nm 5.2mb
Z 19s 0.30um 4.7Msz
e(pP)c57 33.80 24kmX
MOX 87.56 39 iPc 57 26.50 0.8
2.0s 37.00nm 5.3mb
Z 19s 0.20um 4.5Msz
e 57 34.00
CLL 88.28 38 iPc 57 29.70 0.6
1.4s 14.00nm 5.1mb
i 57 37.00
WET 88.67 41 iPc 57 32.30 1.2
1.3s 15.00nm 5.2mb
BRG 88.96 39 eP 57 33.00 0.6
KHC 89.12 40 PKP 57 34.20 1.0
Z 24s 0.60um 4.9MszX
N 24s 0.10um
E 24s 0.30um
e 57 41.20
GEC2 89.26 41 P 57 33.70 -0.3
1.1s 4.16nm 4.7mb
e 57 41.40
KBA 89.42 42 e(P) 57 35.00 0.1

PRU 89.53 39 ePKP 57 36.00 0.9
Z 18s 0.30um 4.8Msz
ZST 91.61 41 eP 57 45.40 0.7
e 05 15.60
ASPA 139.63 244 ePKP 04 19.60 12.9X
1.0s 3.20nm
WB2 139.99 250 ePKP 03 50.00 -17.4X
0.3s 8.00nm
KMI 145.05 347 PKPc 04 16.00 -0.4
1.8s 80.00nm
pP 04 24.50
GBA 151.83 37 PKP 04 33.60 6.7X
1.0s 4.00nm
S.D. = 1.0 on 104 of 115 obs.

? MAY 23, 1993 01h 57m 17.57± 7.04s
52.324 N ±127.km 172.083 E ±27.1km
DEPTH = 33.0km (normal)
4.1mb (3 obs.)
NEAR ISLANDS, ALEUTIAN ISLANDS (5)

IMA 21.91 38 eP 02 09.90 0.5
0.5s 4.00nm 4.1mb
PMS 22.52 52 e(P) 02 15.30 0.0
FBA 23.90 43 eP 02 28.30 -0.4
FCC 49.28 43 eP 06 11.50 7.0X
NB2 65.96 350 P 08 01.50 -0.6
0.5s 1.30nm 4.3mb
GEC2 77.54 346 P 09 11.90 0.6
0.5s 0.49nm 3.8mb
S.D. = 0.8 on 5 of 6 obs.

? MAY 23, 1993 02h 58m 12.83± 9.13s
30.871 S ±129.km 69.159 W ±38.6km
DEPTH = 120.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)

RTC8 0.69 153 eP 58 32.00 -0.5
S 58 44.50
RTLL 0.75 128 iPd 58 33.00 0.1
S 58 46.50
RTBS 0.83 198 e(P)d 58 33.60 0.1
S 58 47.10
CFA 1.08 133 ePc 58 36.10 0.1
S 58 52.20
S.D. = 0.5 on 4 of 4 obs.

? MAY 23, 1993 03h 20m 15.33± 2.85s
31.377 S ±85.4km 69.352 W ±31.7km
DEPTH = 120.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTBS 0.30 197 ePd 20 32.70 0.0
RTCB 0.48 103 ePd 20 33.50 0.0
S 20 47.00
RTLL 0.76 87 ePc 20 35.50 0.0
S 20 50.00
CFA 0.98 104 e(P) 20 37.50 0.0
S 20 53.00
S.D. = 0.1 on 4 of 4 obs.

MAY 23, 1993 03h 39m 01.31± 0.63s
31.789 S ± 9.7km 67.773 W ± 5.8km
DEPTH = 10.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

CFA 0.44 294 iPd 39 10.10 -0.1
S 39 15.60
RTLL 0.75 307 ePc 39 15.70 -0.3
RTCB 0.93 289 ePd 39 19.30 0.2
S 39 31.50
RTBS 1.44 275 e(P)c 39 27.80 0.4
MRA 1.86 110 eP 39 34.00 0.6
S 39 52.20
TCA 2.75 81 eP 39 46.00 -0.4
S 40 25.50
RFA 3.03 191 ePc 39 49.80 -0.4
S 40 36.20
S.D. = 0.5 on 7 of 7 obs.

% MAY 23, 1993 04h 38m 12.36± 0.72s
26.841 S ± 6.2km 26.785 E ± 7.0km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.7 (PRE).

BFS 0.06 180 iPc 38 14.00 0.0

```
PRY      0.62  98 eP     38 23.00   -1.8
                 S      38 30.00
KSR      0.98   6 eP     38 31.00   -0.5
                 S      38 43.00
SWZ      1.35 255 eP     38 36.70   -1.1
SEK      1.65 153 eP     38 42.50    0.2
                 S      39 02.50
SLR      1.74  51 iPc    38 43.70    0.2
                 S      39 06.00
BLF      2.32 193 eP     38 51.50   -0.5
                 S      39 19.00
     S.D. = 0.9   on   7 of   7 obs.
-------------------------------------
%  MAY  23, 1993  04h 42m 40.20± 0.88s
   39.539 N ± 7.7km   23.054 E ± 7.4km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                      (365)

PAIG     0.62  51 iPg    42 52.24   -0.4
                 eSg    43 01.50
LIT      0.71 322 iPg    42 54.04   -0.2
                 eSg    43 03.90
AGG      0.76 228 ePg    42 55.20    0.1
                 eSg    43 06.10
OUR      1.07  42 ePg    43 00.40    0.1
SOH      1.30  10 ePb    43 04.48    0.2
GRG      1.50 341 ePb    43 06.72   -0.5
                 eSb    43 26.28
KNT      1.63 356 iPb    43 09.32    0.4
SRS      1.63  14 ePb    43 09.30    0.3
     S.D. = 0.4   on   8 of   8 obs.
-------------------------------------
%  MAY  23, 1993  04h 57m 51.31± 1.24s
   37.769 N ± 6.8km   30.528 E ±17.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 3.2 (ISK).

BCK      0.31 171 iPg    57 57.50   -0.3
                 eSg    58 03.00
KHL      0.97 305 iPn    58 09.30   -0.5
ELL      1 13 206 ePn    58 13.00    0.4
ALT      1.33 346 ePn    58 16.00    0.2
DST      2.36 322 ePn    58 31.00    0.2
     S.D. = 0.5   on   5 of   5 obs.
-------------------------------------
?  MAY  23, 1993  05h 06m 17.57± 1.04s
   27 997 S ± 8.0km   26.759 E ±12.3km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA        (584)

SEK      0.83 113 eP     06 34.50    0.3
                 S      06 45.50
BLF      1.22 204 iPc    06 40.60   -0.2
                 S      06 56.00
PRY      1.24  31 eP     06 40.50   -0.7
                 S      06 57.50
KSR      2.13   3 eP     06 55.00    0.6
                 S      07 21.50
     S.D. = 1.0   on   4 of   4 obs.
-------------------------------------
*  MAY  23, 1993  05h 18m 21.91± 1.64s
   13.715 N ±15.7km  122.281 E ±16.9km
   DEPTH =  10.0km  (geophysicist)
   4.1mb (  1 obs.)
 LUZON, PHILIPPINE ISLANDS       (249)

PGP      1.31 261 iPc    18 45.00   -1.1
                 iS     19 01.00
TGY      1.36 287 iPc    18 48.00    1.0
                 iS     19 06.00
OVP      1.53 306 eP     18 50.70    1.4
                 eS     19 11.00
BCP      3.13 329 eP     19 11.00   -1.4
                 eS     19 42.00
WB2     35.49 160 eP     25 21.10    0.2
        0 6s      1.70nm          4.1mb
     S.D. = 1.8   on   5 of   5 obs.
-------------------------------------
&  MAY  23, 1993  06h 01m 57.22s
   37.158 N          117.815 W
   DEPTH =   2.7km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      <GM-P>. MD 3.0 (GM), 3.0 (PAS).

CWCR     0.52 311 P      02 07.53    0.0
BHPR     0.55 285 P      02 08.22   -0.1
BCKR     0.70 321 P      02 10.88   -0.3
CASR     0.72 306 P      02 11.47   -0.1
ORC      0.82 306 P      02 13.76    0.1
BONR     0.88 334 ePn    02 14.36   -0.7
CLKR     0.91 299 P      02 14.88   -0.7
MCSM     1.00 300 P      02 16.59   -0.4
MEMM     1.03 300 iPc    02 17.04   -0.3
TNP      1.04  27 eP     02 16.94   -0.7
TPNV     1.27  99 ePc    02 20.21   -1.4
WORM     1.50 193 P      02 24.01   -1.1
WASM     1.54 203 P      02 25.09   -0.8
ISA      1.58 200 ePn    02 24.95   -1.4
                 eS     02 45.86
WOFM     1.77 204 P      02 28.67   -0.5
WJPM     1.82 197 P      02 30.09    0.2
KVN      1.90 353 ePn    02 31.29    0.2
                 eS     02 58.87
GSC      2.02 156 ePn    02 30.18   -2.6
PKEM     2.15 240 (Pn)   02 34.98    0.5
CMB      2.22 294 ePn    02 35.02   -0.6
                 ePg    02 37.60
MCUM     2.37 291 P      02 37.70    0.0
BRMM     2.43 263 P      02 40.54    2.0
BMSM     2.44 259 P      02 39.95    1.2
PHAM     2.46 238 ePn    02 39.69    0.7
ABL      2.57 207 ePn    02 41.24    0.6
                 eS     03 16.71
BCH      2.69 224 ePn    02 41.06   -1.3
SAO      2.93 263 ePn    02 45.72    0.0
ARN      2.97 275 ePn    02 46.58    0.3
PEC      3.30 171 eP     02 50.43   -0.5
ARUT     3.54  78 ePn    02 51.88   -2.5
                 eS     03 49.94
MSU      4.67  71 ePn    03 08.61   -1.9
DUG      4.95  51 (Pn)   03 13.17   -1.3
        32 obs. associated
-------------------------------------
&  MAY  23, 1993  06h 05m 21.65s
   37.138 N          117.790 W
   DEPTH =   0.0km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      <GM-P>. MD 3.0 (GM), 3.0 (PAS).
      ML 2.8 (GS).

CWCR     0.54 311 P      05 31.44   -1.1
BHPR     0.58 286 P      05 33.40    0.2
BCKR     0.73 320 P      05 36.04   -0.1
CASR     0.75 306 P      05 36.68    0.1
ORC      0.85 306 P      05 38.66    0.0
BONR     0.91 334 ePnc   05 39.59   -0.3
CLKR     0.94 299 P      05 40.09   -0.3
MCSM     1.03 301 P      05 41.79   -0.4
TNP      1.05  26 ePd    05 42.17   -0.3
MEMM     1.06 300 iPc    05 42.18   -0.3
TPNV     1.25  98 ePc    05 45.50   -0.4
                 eS     06 02.66
ISA      1.57 201 ePd    05 50.65   -0.3
                 eS     06 11.08
KVN      1.93 353 ePn    05 55.62   -0.6
                 eS     06 23.98
GSC      2.00 156 ePn    05 56.34   -0.8
PHBM     2.05 245 P      05 59.93    2.2
PKEM     2.15 241 ePn    06 00.65    1.3
CMB      2.25 294 ePn    06 00.41   -0.3
                 ePg    06 02.63
MCUM     2.40 291 P      06 02.93    0.1
BMSM     2.45 260 P      06 05.17    1.5
PHAM     2.47 239 ePn    06 05.67    1.8
ABL      2.56 207 ePn    06 06.37    1.0
BCH      2.69 224 ePn    06 06.51   -0.6
SSK      2.92 178 P      06 10.79    0.3
ARN      2.99 275 ePn    06 12.97    1.6
PEC      3.28 171 eP     06 15.18   -0.2
ARUT     3.52  78 ePn    06 17.41   -1.5
                 ePg    06 29.37
MSU      4.65  71 ePn    06 34.43   -0.7
                 ePg    06 49.25
DUG      4.95  50 (Pn)   06 37.51   -1.7
        28 obs. associated
-------------------------------------
&  MAY  23, 1993  06h 11m 03.53s
   37.241 N          117.826 W
   DEPTH =   4.4km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      <PAS-P>. MD 3.1 (GM), 3.0 (PAS).
      ML 2.8 (GS).

BHPR     0.53 277 P      11 13.31   -0.9
BCKR     0.63 317 P      11 16.04   -0.1
CASR     0.67 300 P      11 16.69   -0.2
BONR     0.81 332 ePc    11 19.41   -0.2
CLKR     0.87 294 P      11 20.45   -0.5
MCSM     0.95 296 P      11 21.93   -0.5
TNP      0.97  30 ePd    11 22.39   -0.2
                 eS     11 35.84
MEMM     0.98 296 ePc    11 22.36   -0.3
                 eS     11 35.27
TPNV     1.29 103 ePc    11 27.78   -0.4
                 eS     11 45.80
WORM     1.58 192 P      11 32.40    0.0
ISA      1.66 199 ePn    11 32.86   -0.7
                 eS     11 54.98
KVN      1.82 353 ePn    11 35.52   -0.5
                 eLg    12 03.21
WOFM     1.85 203 P      11 37.18    0.9
WJPM     1.90 196 P      11 38.25    1.2
PHBM     2.07 242 P      11 41.40    2.1
GSC      2.10 157 ePn    11 38.08   -1.9
                 eS     12 09.13
MSTM     2.15 289 P      11 42.38    1.7
CMB      2.18 292 ePn    11 40.96   -0.1
                 ePg    11 43.08
                 eS     12 10.34
PKEM     2.18 238 eP     11 42.91    1.9
ARVC     2.26 201 P      11 46.02    3.8
MCUM     2.33 289 P      11 45.97    2.7
BMSM     2.45 257 P      11 47.56    2.6
YEG      2.49 224 P      11 49.66    4.1
PHAM     2.50 237 ePn    11 46.78    1.1
CRGC     2.52 218 P      11 49.04    3.1
MARC     2.55 209 P      11 49.65    3.4
ABL      2.64 206 ePn    11 48.81    1.0
                 ePg    11 50.75
                 eS     12 23.77
BCH      2.75 222 ePn    11 49.72    0.5
CMPM     2.78 273 P      11 53.45    3.8
LTR      2.81 264 P      11 52.12    2.1
BLRM     2.82 259 P      11 53.06    2.9
COSM     2.84 276 P      11 56.65    6.1
ARN      2.96 273 eP     11 53.46    1.3
SSK      3.03 178 ePn    11 52.16   -1.1
ORV      3.70 310 (P)    12 02.64    0.0
        35 obs. associated
-------------------------------------
   MAY  23, 1993  06h 59m 54.16± 0.09s
   16.171 S ± 2.5km  167.914 E ± 3.1km
   DEPTH = 177.8km  ( 25 depth phases)
   5.4mb ( 53 obs.)
 VANUATU ISLANDS                 (186)
      Mw 5.7 (HRV).
      CENTROID, MOMENT TENSOR    (HRV)
      Data Used: GDSN
      L.P.B.: 31S, 56C
      Centroid Location:
      Origin Time        07:00: 1.0 0.3
      Lat 15.93S 0.04 Lon 167.78E 0.03
      Dep 181.0 1.2 Half-duration  1.7
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 1.10 0.08  Mtt= 1.30 0.13
        Mff=-2.40 0.12  Mrt=-1.41 0.09
        Mrf=-1.49 0.08  Mtf= 2.54 0.12
       Principal Axes:
        T  Val=  3.94   Plg=35   Azm=149
        N        -0.14     54       348
        P        -3.80      9       246
      Best Double Couple:Mo=3.9*10**17
       NP1:Strike=294 Dip=59 Slip=  20
       NP2:       193     73       147

BKM      1.52 168 iP     00 26.90    0.4
                 iS     00 51.50
PVC      1.61 166 iPc    00 28.20    0.9
                 iS     00 54.50
DZM      6.03 193 iPc    01 23.50    1.1
                 iS     02 31.90
VUN     10.25 102 eP     02 19.00    1.0
HNR     10.26 310 eP     02 19.00    1.0
                 eS     04 08.00
SVA     10.26 102 eP     02 20.50    2.4
SVO     10.54 310 eP     02 25.00    3.3X
                 eS     04 22.00
BRS     17.93 229 iPc    03 55.00    1.5
        1.1s     34.00nm          4.6mb
                 i      04 04.00
```

23d 07h

				iS	07	15.50			MTN	35.73	270	iPd	06	37.70	0.0		YAK	83.56	343	iPc	12	03.80	0.8
				i(sS)	07	20.00				0.4s	125.00nm			5.9mb				0.9s	51.00nm			5.3mb	
				i	08	20.00			GUA	37.26	321	eP	06	51.00	0.5					ipP	12	44.00	161kmX
				iPcS	11	20.00			GUMO	37.33	321	eP	06	51.00	0.0					e	15	28.00	
				i(ScS)	15	22.00			PJG	37.33	321	eP	06	51.70	0.7					eS	22	06.00	
RAB	19.52	306	e(P)	04	08.00	-2.1			KNA	37.60	265	iPd	06	53.60	0.2					esS	23	25.00	
ARMA	20.58	224	iPd	04	22.20	1.4				0.8s	635.00nm			6.3mb			TTA	83.73	16	eP	12	03.92	-0.1
	1.0s	139.00nm				5.4mb			PMO	42.52	95	iPc	07	33.00	-0.8			1.2s	10.95nm			4.5mb	
			i	11	46.60					1.5s	365.60nm			5.7mb			ILT	84.40	5	iP	12	08.00	1.0
CTA	20.95	256	iPd-	04	26.00	1.6			VAH	42.74	95	iPc	07	34.50	-1.2			1.0s	12.00nm			4.6mb	
	2.0s	1647.06nm				6.2mb				1.6s	308.50nm			5.6mb			BKS	84.68	48	eP	12	12.09	2.9X
			ipP	04	56.00				TPT	42.79	95	iPc	07	35.20	-0.8		Z	19s	0.30um			4.7Msz	
			i(PP)	05	56.00					1.3s	184.80nm			5.5mb						eS	22	21.09	
			iS	08	10.00				RUV	42.99	95	iPc	07	36.60	-1.0					e	23	43.09	
			i(SS)	09	00.00					1.4s	284.90nm			5.7mb						e	34	58.09	
			iScPc	11	44.00				COOL	44.99	242	iPd	07	53.20	-0.4					eLR	38	52.09	
			iScS	15	31.00					0.5s	34.00nm			5.1mb			ARN	84.97	49	(P)	12	10.56	-0.1
KUZ	21.63	163	P	04	32.50	1.5			MNI	45.99	288	eP	08	02.10	0.5		WDC	85.62	46	eP	12	14.54	0.8
WLZ	22.65	164	eP	04	42.70	1.8			MEEK	46.82	249	iPd	08	08.40	0.3			1.5s	17.65nm			4.6mb	
MOZ	23.06	166	P	04	46.90	2.1				0.3s	43.00nm			5.4mb						epP	12	59.04	179km
	1.2s	1060.00nm				6.3mb			DAV	47.85	296	eP	08	12.00	-4.1X		ABL	85.68	52	eP	12	14.74	0.3
RIV	23.17	218	eP	04	47.60	1.7			KLB	47.96	242	eP	08	15.00	-1.8					epP	12	58.57	176km
	0.9s	4470.59nm				7.0mb X			NWAO	48.56	240	eP	08	21.00	-0.4		ORV	85.91	47	eP	12	15.39	0.2
HBZ	23.23	159	eP	04	46.10	-0.4			BAL	48.76	243	eP	08	22.00	-0.9					epP	12	59.94	179km
URZ	23.45	162	P	04	49.30	0.8			CTB	49.10	295	ePd	08	23.00	-2.7X		BOD	85.98	334	eP	12	15.10	0.0
PUZ	23.65	159	P	04	50.30	-0.2			MRWA	49.27	245	eP	08	26.50	-0.4			0.8s	8.00nm			4.6mb	
	1.2s	1220.00nm				6.3mb				0.4s	12.00nm			4.8mb			CMB	86.08	49	eP	12	16.32	0.2
NGZ	23.89	165	P	04	54.60	1.7			CGP	49.28	297	iPd	08	28.50	1.4			1.2s	12.77nm			4.6mb	
CNZ	23.90	165	P	04	54.60	1.6			MUN	49.31	242	eP	08	26.00	-1.2		L8FM	86.39	45	eP	12	19.94	2.1
PAHZ	23.98	162	eP	04	54.20	0.5			PLP	50.42	300	ePd	08	35.00	-0.8					epP	13	02.76	171km
NOZ	24.07	160	eP	04	54.40	0.0			KHKI	51.58	272	ePc	08	43.60	-1.0		BALM	86.53	22	eP	12	16.03	-1.9
MDG	24.27	294	eP	04	59.00	2.4						e	12	04.10			ISA	86.55	52	eP	12	19.16	0.6
QRZ	24.89	172	P	05	03.40	1.3			KKM	55.71	289	ePd	09	13 20	-1.6			1.2s	34.21nm			5.1mb	
	1.2s	610 00nm				6.1mb			BAG	56.82	303	ePd-	09	22.00	-0.7					epP	13	03.54	178km
TEHZ	24.97	164	eP	05	02.30	-0.5				1.0s	140.00nm			5.7mb			SSK	86.60	53	eP	12	19.67	0.7
MNG	25.23	166	P	05	04.50	-0.7			KAKJ	58.32	334	P	09	32.30	-0.3		PEC	86.89	54	eP	12	19.99	-0.2
BWA	25.24	220	iPd	05	04.40	-1.0			CHJJ	58.70	333	P	09	35.00	-0.3			1.2s	27.42nm			5.0mb	
			e	05	44.80	206kmX			IIDJ	58.72	331	eP	09	35.20	-0.3					epP	13	04.23	178km
CNB	25.27	218	iPc	05	06.60	0.9			WKYJ	58.80	329	P	09	36.20	0.1		PLM	86.92	54	eP	12	21.20	0.7
	0.6s	65.00nm				5.4mb			KAGJ	59.01	323	P	09	38.00	0.5					epP	13	06.38	182km
			i	11	58.20				TKSJ	59.40	327	P	09	40.20	0.1		MEMM	86.98	50	eP	12	22.18	1.8
KIW	25.34	168	eP	05	05.50	-0.7			MAT	59.46	332	iPd	09	39.70	-0 8					epP	13	06.96	180km
CAN	25.49	218	iPd	05	08.10	0.4				1.0s	56.00nm			5.3mb			ZAK	87.08	325	iPd	12	21.70	1.1
			e	05	42.70	172km						eS	17	35.00				0.9s	10.00nm			4.7mb	
TCW	25.55	169	eP	05	08.00	-0.2			LEM	59.64	272	ePd	09	42.30	0.0					e	13	03.80	168km
CAW	25.61	167	P	05	07.90	-0.8			TSRJ	59.67	330	P	09	42.10	0.2					e	22	32.00	
MRW	25.65	168	P	05	08.40	-0.7			MTMJ	59.68	332	P	09	41.80	-0.3		FBA	87.53	17	eP	12	20.79	-1.7
DSZ	25.71	173	P	05	10.30	0.7			NIIJ	59.70	333	P	09	42.10	0.0			0.8s	6.90nm			4.6mb	
	1.2s	748.00nm				6.2mb			KUMJ	60.04	324	P	09	44.80	0.3					epP	13	05.39	179km
SNZO	25.73	168	eP	05	08.00	-1.7			YONJ	60.64	328	P	09	48.20	-0.3		BONR	87.56	49	eP	12	23.87	0.3
			e	06	06.00	317kmX			SHNJ	61.07	325	P	09	51.00	-0.4					epP	13	07.99	177km
			S	09	48.00				CSY	62.45	203	iPd	10	00.80	0.6		GSC	87.68	52	ePc	12	24.29	0 3
MTW	25.75	167	P	05	08.70	-1.3				0.8s	35.30nm			5.3mb			KVN	88.12	48	eP	12	27.09	0.9
THZ	25.86	171	P	05	11.00	-0.1			SSE	64.99	316	P	10	12.50	-4.6X					epP	13	12.70	183km
BLW	25.95	167	P	05	10.80	-1.0			Z	20s	0.50um			4.7Msz			SHW	88.23	41	(P)	12	32.23	5.8X
KHZ	26.60	171	eP	05	16.20	-1.4						i	10	16.50	13kmX		TNP	88.40	50	eP	12	27.81	0.3
LTZ	26.78	173	Pc	05	19.10	-0.3						sP	10	56.00				1.5s	35.77nm			5.1mb	
STK	28.57	232	iPd	05	36.00	0.4						S	18	44.00						epP	13	11.29	173km
	0.8s	42.00nm				5.2mb						sS	19	28.00			GLA	88.41	55	eP	12	28.36	0.9
			iPcP	08	42.80							ScS	19	56.00						epP	13	13.79	182km
			iScP	12	07.80				YSS	66.85	342	ePc	10	29.00	0.3		TPNV	88.70	51	eP	12	29.33	0.4
			iScS	16	00.60					0.9s	20.00nm			4.9mb				1.3s	33.10nm			5.1mb	
MHZ	28.82	178	P	05	37.10	-0.7			BJI	73.77	321	eP	11	11.00	0 5					epP	13	14.40	180km
LRCZ	28.83	178	P	05	37.00	-0.9				1.0s	13.00nm			4.6mb			LON	88.74	40	(P)	12	29.35	0.6
SBCZ	28.86	178	P	05	37.20	-0.8			SPA	73.93	180	iPc	11	11.70	0.4		MOY	88.98	325	eP	12	37.20	7.6X
ODZ	28.88	176	P	05	37.10	-1.0				1.0s	471.50nm			6.2mb			AIA	89.83	161	eP	12	33.60	0.1
	1.2s	79.00nm				5.3mb			NST	73.99	292	eP	11	13.50	1.2		GUN	90.63	299	P	12	38.30	0.0
CMCZ	28.91	178	eP	05	38.10	-0.4			KMI	75.59	302	Pd-	11	23.50	1.9		PKI	90.93	298	P	12	39.80	0.2
TLC	28.95	178	P	05	38.80	-0.1				1.5s	140.00nm			5.5mb				0.8s	44.00nm			5.6mb	
TOO	29.09	219	iPc	05	40.80	0.6						pP	12	06.00	175km		ARUT	91.09	51	eP	12	40.63	0.7
	1.0s	95.00nm				5.5mb						S	20	52.00						epP	13	25.13	177km
			iScP	12	10.40							e	21	45.00			KKN	91.10	299	P	12	40.60	0.3
TUZ	29.73	178	P	05	45.80	0.2						sS	22	06.00				0.8s	38.00nm			5.5mb	
	1.0s	186.00nm				5.8mb			CHTO	76.24	294	iPd	11	26.00	1.0		DMN	91.19	298	P	12	41.20	0.4
WBZ	32.10	258	eP	06	04.80	-1.8				0.8s	23.98nm			5.0mb				0.8s	57.00nm			5.7mb	
	0.8s	197.70nm				5.9mb			LZH	79.74	312	iPd	11	46.00	2.0		DPW	91.43	40	(P)	12	41.39	0.2
			eS	11	04.40					1.4s	39.00nm			4.9mb						epP	13	25.78	177km
			eScS	16	17.20				Z	35s	0.40um			4.5MszX			GKN	91.71	299	P	12	43.00	0.0
WRA	32.11	258	P	06	01.90	-4.8X						sP	12	27.00			NVL	91.72	188	iPc	12	42.00	-0.1
	0.6s	137.80nm				5.8mb						S	21	36.00				1.0s	186.00nm			6.1mb	
ADE	32.14	229	iPd	06	07.20	0.3						SKS	21	45.00						iS	23	23.00	
ASPA	32.78	251	eP	06	12.10	-0.4						sS	22	26.00						ePS	24	40.00	
	0.8s	1076.20nm				6.6mb X			MAW	80.79	202	iPc	11	49.60	0.8		NEW	92.26	40	eP	12	46.07	1.2
Z	22s	1.10um				4.5Msz				1.0s	66.67nm			5.3mb				0.9s	15.98nm			5.1mb	
			iS	11	14.40				CIT	82.59	330	eP	11	59.00	0.7					epP	13	30.26	176km
			iScP	12	21.30				SLKM	83 48	19	eP	12	01.55	-1.2		MSU	92.27	51	eP	12	46.67	1.2
			eScS	16	18.90							epP	12	45.31	177km					epP	13	32.13	181km

DUG	92.34	49	eP	12	45.67	0.0	MBH	134.98	296	ePKP	18	54.80	0.5	TRI	143.46	329	ePKP	19	06.80	-2.2
	0.9s		1.98nm			4.2mb X	VRI	136.15	321	ePKP	18	48.00	-7.9X				e	22	31.00	
			epP	13	31.49	183km				ed	22	13.00		WLF	143.46	340	iPKPd	19	07.46	-1.4
HVU	92.89	47	(P)	12	50.40	2.3	MLR	136.82	321	ePKPd	18	57.50	0.1		1.1s		42.20nm			
			epP	13	34.55	176km	UZH	137.15	327	ePKP	18	58.30	0.6	MOTA	143.48	333	iPKPd	19	07.60	-1.7
SNA	93.47	183	iPc	12	50.50	0.3		1.2s		60.00nm					0.9s		52.70nm			
	1.0s		142.00nm			6.1mb	OJC	137.41	330	ePKP	18	58.40	0.2				i	19	08.20	
SRU	93.68	50	eP	12	52.23	0.4	SPC	137.87	328	ePKP	19	00.50	1.2				i	22	30.30	
HYB	94.14	287	eP	12	54.50	0.4				i	22	18.70					i	22	32.30	
GBA	94.16	283	P	12	55.20	1.0	KSP	138.60	333	ePKP	18	50.40	-9.9X	SOTA	143.53	333	iPKPd	19	07.30	-2.0
	0.6s		2.00nm			4.5mb				id	19	00.80			0.8s		53.50nm			
LTX	96.42	61	eP	13	03.45	-1.0				ic	22	19.00					i	19	08.40	
			epP	13	50.26	187km	BRG	139.57	335	ePKP	18	55.20	-6.9X				i	22	30.50	
ELT	97.89	323	eP	13	11.00	0.6		1.3s		23.00nm							i	22	32.50	
	1.2s		10.00nm			5.2mb				i	19	01.80		DOU	143.57	342	PKPc	19	08.60	-0.5
			e	17	12.00		CLL	139.61	336	iPKP	19	02.40	0.3	HVAR	143.73	324	iPKPd	19	07.50	-2.1
			eS	23	29.00			1.3s		27.00nm				OGA	143.88	333	iPKPd	19	09.50	-0.5
PRZ	100.38	311	ePdiff	13	25.00	2.7X				i	22	21.10		VVI	143.91	331	PKP	19	08.60	-1.3
			eS	23	47.00		PRU	139.98	333	ePKP	18	57.10	-5.7X	CDF	144.14	338	ePKP	19	09.00	-1.3
FCC	107.81	33	ePKP	18	09.00	7.7X				i	19	03.00		SLE	144.21	336	ePKPc	19	09.20	-1.1
SVE	112.84	325	ePKPc	18	10.20	-0.8				i	19	05.50		CTI	144.22	331	PKP	19	09.40	-1.1
MAIO	114.11	303	ePKP	18	08.00	-6.3X				e	19	44.00		VAL	144.29	358	ePKP	19	10.00	-0.2
MOCB	115.65	124	PKP	18	17.60	-0.5	ZST	140.08	329	ePKP	19	02.70	-0.4	OSS	144.40	333	iPKPc	19	10.60	-0.3
CNCB	115.88	118	PKP	18	18.00	-0.8				e	43	04.60		ZLA	144.49	336	iPKPc	19	10.20	-0.7
			LR	28	08.00		EKA	140.31	352	PKP	18	59.00	-4.3X	LCI	144.52	319	PKP	19	10.70	-0.3
LPB	115.91	118	ePKP	18	17.00	-1.6		0.9s		4.10nm				BRT	144.68	320	PKP	19	11.20	-0.1
CCH	117.16	120	ePKP	18	20.00	-0.9	VKA	140.42	330	e(PKP)	19	05.00	1.3	LLS	144.74	335	iPKPc	19	11.40	-0.1
JAO	118.42	37	ePKP	18	20.00	-1.8	SRS	140.45	316	ePKP	18	55.02	-9.0X	BSF	144.80	338	ePKP	19	11.00	-0.5
GRM	118.49	217	ePKP	18	23.00	0.4	OUR	140.55	315	ePKP	18	57.86	-6.3X	HAU	144.81	338	ePKP	19	11.20	-0.2
FRB	118.95	25	ePKP	18	21.50	-0.9	WIT	140.56	342	ePKP	19	05.00	1.3	VDL	144.85	334	iPKPc	19	12.20	0.5
	1.0s		6.00nm				MOX	140.68	336	ePKP	18	58.10	-6.0X	SAL	145.07	332	PKP	19	12.40	0.6
DAG	119.28	2	ePKP	18	22.00	-0.8				e	19	04.60		FG2	145.33	323	PKP	19	12.68	0.3
GAC	119.94	46	ePKP	18	24.50	-0.4	SOP	140.70	329	e(PKP)	19	01.00	-3.2X		1.1s		142.80nm			
KEV	121.27	345	iPKP	18	27.40	0.7	SOH	140.75	316	ePKP	18	57.38	-7.2X	RSM	145.38	328	PKP	19	13.50	1.2
	1.0s		22.00nm				KNT	140.89	317	ePKP	18	57.26	-7.5X	TMA	145.40	334	iPKPc	19	12.00	-0.6
Z	15s		2.00um			5.9MszX	PAIG	140.94	314	ePKP	19	06.53	1.6	ARV	145.43	327	PKP	19	12.70	0.2
			LR	00	26.00		VAY	141.03	317	ePKP	18	58.40	-6.6X	FG4	145.55	322	PKP	19	13.43	0.6
SEK	121.41	221	ePKP	18	28.50	0.0	KHC	141.04	333	ePKP	19	00.00	-4.9X		1.0s		24.70nm			
			i	21	48.00			1.0s		12.50nm				VAI	145.63	334	PKP	19	12.40	-0.3
BLF	121.75	220	iPKPc	18	28.20	-0.9				e	19	08.40		SFI	145.69	329	PKP	19	13.70	0.8
	1.0s		40.00nm							e	19	53.00		PGD	145.79	329	PKP	19	13.60	0.3
			i	21	49.00		GEC2	141.20	333	e(PKP)	19	08.80	3.6X	MMK	145.82	335	iPKPc	19	13.60	0.2
FRS	121 81	218	iPKPc	18	28.60	-0.3		0.9s		11.90nm				ROI	145.83	319	PKP	19	13.50	0.1
	0 8s		26.00nm				GRG	141.32	317	ePKP	19	03.26	-2.3X	DUI	145.83	323	PKP	19	14.69	1.3
			i	22	07.00		SKO	141.42	319	ePKP	19	00.50	-5.2X		1.0s		47.30nm			
SIV	122.06	121	PKP	18	28.50	-1.3	GRF	141.59	336	ePKP	19	01.60	-4.2X	CRE	145.85	328	PKP	19	13.00	-0.3
CER	122 35	211	ePKP	18	28.00	-1.9	LIT	141.67	315	ePKP	18	59.66	-6.6X	ASS	145.88	327	PKP	19	13.56	0.2
	1.2s		100.00nm				FNA	142.08	317	ePKP	19	03.30	-3.7X		1.0s		42.20nm			
SUR	122 36	213	iPKPc	18	30.60	0.4	PTJ	142.22	328	ePKP	19	03.70	-3.4X	CSI	145.89	319	PKP	19	13.10	-0.3
	0.8s		46.00nm				ZAG	142.26	327	ePKP	19	07.70	0.7	TDS	145.93	319	PKP	19	13.90	0.4
PRY	122 46	222	iPKPd	18	29.50	-1.0	OHR	142.28	318	iPKP	19	02.80	-4.5X	AOU	145.97	325	PKP	19	14.00	0.5
	1.4s		50.00nm					0.8s		60.00nm				DIX	146.02	335	ePKPc	19	14.10	0.3
SLR	122.74	224	iPKPc	18	29.00	-2.1	AGG	142.29	314	ePKP	19	01.82	-5.5X	SGO	146.03	321	PKP	19	13.30	-0.2
	0.8s		20.00nm				BHG	142.41	332	iPKPd	19	04.90	-2.4X	FIR	146.09	329	ePKP	19	13.50	0.0
			i	20	23.50		ENN	142.57	341	ePKP	19	06.00	-1.4	MGR	146.13	320	PKP	19	12.80	-1.0
KSR	123.57	223	ePKP	18	31.00	-1.7		1.0s		20.00nm				FLN	146.14	346	ePKP	19	12.80	-0.7
	1.0s		40.00nm							e	19	07.50		ORO	146.16	334	PKP	19	14.80	1.0
			i	21	34.50		KBA	142.67	331	iPKPd	19	04.50	-3.4X	SDI	146.17	324	PKP	19	13.50	-0.4
GRS	124.38	307	iPKPc	18	33.00	-0.9		1.0s		34.30nm				BDI	146.20	330	PKP	19	13.80	-0.1
	1.1s		50.00nm							i	19	09.00		BOB	146.20	332	PKP	19	13.90	0.0
CBM	124.71	44	ePKP	18	32.04	-2.0				i	22	27.40		LDF	146.21	346	ePKP	19	13.00	-0.6
POF	125.16	214	iPKPd	18	37.00	1.6				i	22	29.90		EMS	146.22	336	iPKPc	19	15.00	1.0
	0.4s		7.00nm				FUR	142.77	334	iPKPd	19	05.80	-2.1	LOR	146.30	340	ePKP	19	13.70	-0.1
MTA	125.21	310	iPKP	18	36.00	0.8	LJU	142.84	329	ePKP	19	05.50	-2.5X	CZI	146.31	319	PKP	19	13.50	-0.5
	0.8s		100.00nm							eSKP	22	29.50		RFI	146.34	323	PKP	19	16.34	2.3
MOS	125.43	328	ePKP	18	36.00	0.9	VBY	142.85	328	ePKP	19	05.50	-2.5X		1.1s		86.60nm			
MJMA	125.93	290	ePKP	18	37.33	0.1				eSKP	22	30.00		MNS	146.34	326	PKP	19	13.50	-0.6
PPD	125.98	134	ePKP	18	36.20	-1.1	RBL	143.03	330	PKP	19	05.00	-3.4X	GRI	146.35	318	PKP	19	14.80	0.6
OBN	126.24	328	iPKPc	18	36.30	-0.5	CEY	143.11	329	ePKP	19	06.00	-2.5X		1.1s		269.50nm			
	1.1s		51.00nm							eSKP	22	30.00		PII	146.49	330	PKP	19	15.20	1.0
			e	19	21.00		VOY	143.17	329	ePKP	19	05.90	-2.8X	LBF	146.51	340	ePKP	19	14.00	-0.2
PUL	126.71	335	(PKP)	18	37.00	-0.5				e	19	18.50		GRR	146.57	346	ePKP	19	14.20	0.0
	1.2s		100.00nm							e(pP'd	19	40.00		SSF	146.59	341	ePKP	19	14.30	0.0
LMN	127.21	44	ePKPd	18	40.50	1.6				eSKP	22	30.00			1.0s		7.80nm			
AFIF	127.79	288	ePKP	18	41.67	0.9	WATA	143.28	333	iPKPd	19	06.80	-2.1	LSD	146.63	335	PKP	19	15.16	0.4
VAO	128.23	138	ePKP	18	41.20	-0.5				i	19	07.20		RSL	146.65	336	PKP	19	12.99	-1.7
NUR	128.43	338	iPKP	18	40.70	0.0				i	22	29.70		RMP	146.72	325	PKP	19	15.20	0.5
	0.4s		12.20nm							i	22	31.70		RDP	146.75	325	PKP	19	15.40	0.6
RIFB	129.92	135	iPKPc	18	44.30	-0.6	FVI	143.29	331	PKP	19	06.10	-2.6X	LPL	146.75	336	ePKP	19	15.00	0.1
UPP	131.31	341	iPKP	18	46.50	0.3	SNF	143.29	342	iPKPd	19	07.10	-1.5		0.7s		4.30nm			
WIN	132.06	217	iPKPd	18	50.00	0.9	WTTA	143.31	333	iPKPd	19	06.90	-2.1	LPG	146.76	336	ePKP	19	15.10	0.1
	1.0s		310 00nm					0.8s		41.70nm					0.8s		6.05nm			
			i	22	02.00					i	19	07.50		PCP	146.78	333	PKP	19	13.65	-1.1
NB2	132.17	345	PKP	18	48.40	0.5				i	22	29.40		RSP	146.84	335	PKP	19	13.88	-1.0
	1.0s		11.80nm							i	22	32.00		SMF	146.85	340	ePKP	19	14.50	-0.2
HRI	133.76	301	ePKP	18	52.70	0.8	RIY	143.40	328	ePKP	19	06.30	-2.7X	AVF	146.88	340	ePKP	19	14.40	-0.3
MML	134.16	300	ePKP	18	53.60	1.0	HOFF	143.44	338	PKP	19	08.10	-0.8	LPF	146.95	346	ePKP	19	14.80	0.0

23d 07h

CKI	146.99	333	PKP	19	14.80	-0 2	PLAV	6.26	60	P	35	35.80	-1.2		0.9s	6.32nm		4.2mb				
SOI	147.01	317	PKP	19	15.40	0.2				S	37	43.50		GOL	43.87	323	ePc	41	57.47	0.2
GMB	147.08	317	PKP	19	15.56	0.0	PSO	7.00	219	eP	35	47.50	0.5		0.6s	40.14nm		5.2mb				
	0.9s	104.10nm					PCJ	11.70	340	iPd	36	48.98	0.5	RSSD	46.10	329	ePc	42	14.53	-0.3
BHB	147.09	334	PKP	19	14.39	-0.8				S	38	45.54			0.4s	7.54nm		4.6mb				
FIN	147.19	333	PKP	19	14.20	-1.2	TCE	11.78	70	eP	36	51.24	1.7				e	42	23.26				
RRL	147.22	335	PKP	19	15.94	0.2				i	36	58.20		SRU	46.71	319	ePc	42	19.48	-0.2
BGF	147.25	341	ePKP	19	15.30	-0.1	HOJ	11.80	342	ePd	36	51.46	1.5				e	42	55.46				
ROB	147.27	333	PKP	19	13.74	-1.8	STH	11.90	342	ePd	36	51.64	0.5	GLA	46.81	310	eP	42	20.74	0.4
ATN	147.34	317	PKP	19	17.80	2.0				S	38	52.70		JAQ	47.00	358	ePc	42	20.40	-1.0
PZZ	147.43	334	PKP	19	14.61	-1.3	TPP	11.94	72	eP	36	52.19	0.5	EMUT	47.29	320	ePc	42	24.35	0.1
PLDF	147.51	339	PKP	19	16.72	0.8				i	37	00.14		ULM	47.43	340	iPc	42	26.50	1.7
ENR	147.52	333	PKP	19	14.29	-1.7	B8J	12.33	341	ePd	36	57.40	0.7	MSU	47.48	318	ePc	42	26.07	0.4
STV	147.55	334	PKP	19	15.90	-0.1				S	39	02.53					epP	43	01.41	157kmX
IMI	147.57	333	PKP	19	14.93	-1.1	T8H	12.35	72	eP	36	57.03	0.0	DAU	47.91	320	eP	42	29.11	0.0
AGO	147.60	340	PKP	19	16.66	0.7				i	37	04.97					epP	43	04.26	156kmX
SAOF	147.65	333	PKP	19	16.41	0.3	GRW	12.40	63	eP	36	56.47	-1.2	ARUT	47.97	316	ePc	42	29.50	0.1
TCF	147.69	341	ePKP	19	16.10	0.0				i	37	03.77					epP	43	04.64	155kmX
	1.0s	9.60nm					SV8	13.25	60	eP	37	07.84	-0.7	BW06	48 25	324	ePc	42	30.90	-0.7
AUTN	147.70	333	PKP	19	16.22	-0.3				i	37	10.97			0 7s	12.70nm		4.6mb				
BCAO	147.75	252	iPKPd	19	17.00	-0.2	SVV	13.30	60	eP	37	09.76	0.6				epP	43	05.66	153kmX
	1.0s	235.00nm								i	37	12.01		DUG	48.79	319	ePd	42	35.60	0.0
			ic	19	20.00		SL8	13.70	58	eP	37	13.70	-0.5		0 6s	12.01nm		4.7mb				
			id	19	54.00		SLW	13.88	58	eP	37	19.45	2.9X	GSC	49.24	312	ePc	42	39.34	0.2
			ic	21	45.20		B1M	14.03	56	eP	37	23.10	4.8X				epP	43	15.54	160kmX
TOUF	147.76	333	PKP	19	16.75	0.2	FDF	14.08	55	eP	37	18.71	-0.3	TPNV	49.54	314	eP	42	42.16	0.7
SSB	147.79	338	PKP	19	17.24	0.9	MVM	14.19	56	eP	37	23.35	3.0X		0.8s	21.68nm		4.8mb				
S8F	147.80	333	PKP	19	16.91	0.5	CRM	14.28	55	eP	37	26.50	5.0X	HVU	49.62	321	eP	42	41.15	-0.8
AURF	147.83	333	PKP	19	15.70	-0.8	PAG	14.42	49	eP	37	24.00	0.7	TNP	50.74	315	eP	42	50.28	-0.3
COLF	147.88	339	PKP	19	17.64	1.2	MGH	14.48	46	eP	37	23.00	-0.9		0.7s	9.90nm		4.6mb				
PYM	147.91	340	PKP	19	17.79	1.2	MGG	14.63	50	eP	37	25.00	-0.8				epP	43	26.13	157kmX
LSF	147.93	342	ePKP	19	16.40	-0.1	BPA	14.95	46	eP	37	29.00	-0.8	BONR	51.45	314	ePc	42	56.48	0.3
	1.1s	125.05nm					DEG	15.06	50	eP	37	30.00	-1.3				epP	43	32.64	158kmX
REVF	147.93	333	PKP	19	16.70	0.1	NNA	18.98	192	iPc	38	16.80	0.1	LRM	51.74	326	iPc	42	57.70	-0.4
MNO	147.97	318	PKP	19	17.90	0.8		0.7s	13 70nm			4.5mb		MEMM	51.79	313	eP	42	58.45	0.2
MFF	148.07	344	ePKP	19	16.80	0.1	ARE	23.08	176	eP	38	59.00	1.2				e	43	09.55				
	0.9s	17.85nm					LPB	23.60	168	P	39	05.00	2.1	KVN	51.79	315	eP	42	58.09	-0.4
PGF	148.11	330	PKP	19	17.50	0.5				i	43	06.20		ORV	54.39	315	eP	43	17.03	-0.4
LBL	148 29	339	PKP	19	17.24	0.1	CNCB	23.89	168	P	39	07.20	1.3	FCC	54.40	347	ePc	43	23.70	6.6X
MEU	148.29	316	PKP	19	21.90	4.5X				i	43	12.20		LBFM	55.39	316	ePc	43	23.69	-1.2
PZI	148.34	316	PKP	19	21.77	4.3X	CCH	24.88	164	P	39	14.80	-0.1				epP	43	58.29	148kmX
	0 9s	46 10nm					SIV	25.45	153	P	39	19.10	-0.7				esP	44	16.23	
FRF	148 39	334	ePKP	19	17.00	-0.3	GOGA	28.29	341	eP	39	45.66	0.3	NEW	55.76	326	ePc	43	25.79	-1.4
	0 9s	8.50nm						0.6s	17.49nm			5.0mb			0.6s	19.47nm		5.1mb				
LRG	148.60	334	ePKP	19	17.50	-0.1	JSC	28.48	346	iPc	39	46.96	0.0	JBO	55.91	322	P	43	27.75	-0.5
	0.8s	8.20nm					PRM	28.58	344	ePc	39	48.46	0.5	VIPM	55.95	320	P	43	28.29	-0.4
LMR	148.63	333	ePKP	19	17.50	-0.1				ePcP	42	54.78		DPW	56.16	325	P	43	29.19	-0.8
	0.9s	5.90nm					MOCB	28.71	166	P	39	48.60	-1.1	CROR	56.40	321	P	43	32.13	0.3
CDR	148.66	335	iPKPc	19	22.40	4.7X	CEH	29.57	350	ePc	39	56.35	-0.3	SAW	56.76	324	P	43	32.80	-1.4
RJF	148.78	341	ePKP	19	18.00	0.1		0.5s	7.34nm			4.7mb		VBEM	56.81	321	P	43	35.01	0.2
	1.1s	14.90nm								e	41	01.02		FRB	57.01	2	ePc	43	33.90	-1.7
CAF	148.95	340	ePKP	19	18.50	0.3	GBTN	30.60	342	eP	40	05.96	0.2		0.5s	28.00nm		5.4mb				
FAI	149.01	318	PKP	19	20.00	1.6	OLY	33.31	332	ePc	40	28.78	-0.5	WTV	57.08	324	P	43	36.53	0.0
ERC	149.24	320	PKP	19	06.26	-12.6X				e	41	15.22		ASR	57.32	322	P	43	38.23	0.0
	0.7s	30.90nm					MIAR	33.59	328	ePc	40	30.49	-1.2	LON	57.73	322	ePc	43	40.05	-1.0
CVT	149.33	319	PKP	19	24.60	5.7X		0.7s	8.46nm			4.5mb		KMOR	58.27	320	P	43	45.64	0.8
LFF	149.35	342	ePKP	19	19.20	0.5	ELC	33.84	336	ePc	40	32.97	-0.8	GMW	58.69	323	ePc	43	46.33	-1.3
LPO	149.45	341	ePKP	19	19.30	0.4	PAL	34.15	359	ePc	40	36.69	0.3				epP	44	22.18	152kmX
PTS	150.37	319	PKP	19	26.85	6.4X	GPD	34.18	358	iPc	40	37.36	0.7	MCW	59.24	324	P	43	50.39	-1.1
	0.1s	10.40nm								ePcP	43	08.97		STW	59.49	323	P	43	53.38	0.3
EPF	151.20	341	ePKP	19	22.10	0.5	FVM	34.92	336	ePc	40	43.01	0.0	VAL	68.10	36	iP	45	03.40	14.4X
	0.9s	10.80nm						0.5s	87.47nm			5.7mb		SIT	69.56	329	eP	44	57.33	-0.5
KDS	176.42	178	iPKPd	19	44.50	0.2	PPD	35.60	144	eP	40	49.10	0.2		0.7s	11.22nm		4.8mb				
	S.D. = 1.0	on 307 of 355 obs.					HRV	35.66	2	P	40	50.21	1.0	YRH	71.66	36	eP	45	02.90	-7.7X
								1.0s	69.63nm			5.3mb		YRC	71.79	36	eP	45	07.60	-3.7X
MAY 23, 1993 07h 34m 05.63± 0.29s							LTX	36.64	312	ePd	40	55.80	-1.9	WME	71.98	36	eP	45	09.30	-3.2X
6.717 N ± 2.5km 72.975 W ± 2.8km										ePcP	43	17.03		HCG	72.12	37	eP	44	54.80	-18.6X
DEPTH = 168.4 ± 3.3 km							TYNO	36.74	352	P	40	58.95	0.8	EAU	73.03	34	eP	45	35.50	16.9X
4.9mb (33 obs.)							STCO	36.75	352	P	40	59.15	0.9	ESK	73.04	34	iPc	45	30.00	11.3X
NORTHERN COLOMBIA						(99)	DLA	36.79	349	P	40	58.90	0.3		1.0s	160.00nm				
							LDN	36.89	350	P	41	00.20	0.7	INK	73.17	340	ePc	45	19.90	0.7
FUQ	1.45	212	eP	34	47.00	10.1X	ELF	37.06	350	P	41	01.40	0.4		0.6s	10.00nm		4.7mb				
BOG	2.35	208	iPc	34	48.00	1 3	ACTO	37.27	351	P	41	03.62	0.9	EDI	73.19	33	eP	45	36.50	17.0X
			iS	35	19.00		WLVO	37.36	354	P	41	04.13	0.7	EBL	73.23	34	ePc	45	34.80	15.0X
SDV	3.17	47	P	34	57.20	0.7	RSNY	37.71	358	ePd	41	06.80	0.5		1.4s	43.00nm				
			S	35	35.00			1.0s	24.49nm			4.9mb		ESY	73.50	34	ePc	45	36.50	15.2X
AZUC	4.35	227	eP	35	11.84	-0.2	BNH	37.75	2	eP	41	07.36	0.6	MBC	73.93	350	ePc	45	23.60	0.1
TOV	4.38	46	P	35	12.30	0.2	MIM	38.53	4	eP	41	13.85	0.7		0.5s	23.00nm		5.2mb				
			S	37	02.50		TCA	38.68	168	ePd	41	12.30	-2.4	BALM	74.23	332	iPd	45	26.15	0.6
DIAC	4.68	223	P	35	15.24	-0.8	GAC	38.90	357	eP	41	18.00	1.8				epP	46	02.26	146kmX
HOQC	4.87	229	eP	35	17.01	-1.7	VAO	38.98	140	eP	41	17.90	0.6	DAG	75.71	11	iPd	45	33.20	-0.4
CEOS	5.14	63	P	35	21.31	-0.7	HNME	39.53	5	eP	41	22.15	0.7		0.7s	29.45nm		5.1mb				
			S	37	18.01		LMN	39.62	9	ePc	41	25.40	3.2X	KLU	76.01	332	iPc	45	35.91	0.2
SILC	5.22	220	eP	35	23.73	0.3	EEO	40.12	353	ePc	41	29.80	3.5X	F8A	77.52	335	ePc	45	43.52	-0.3
PURC	5.52	218	eP	35	27.63	0.1	CBM	40.28	5	ePc	41	28.54	1.0		0.6s	4.35nm		4.4mb				
CANV	5.93	43	P	35	32.50	0.0		0.6s	123.92nm			5.7mb					e	45	53.90				
			S	37	39.10		ALQ	41.69	317	ePc	41	39.68	0.2	PMR	77.54	332	ePd	45	43.54	-0.4

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        0.7s    21.04nm          5.0mb
SLKM   77.91 330 ePc    45 45.72  -0.4
MUD    80.10  34 iPd    45 55.80  -2.0
        1.6s   200.00nm          5.6mb
IMA    80.12 336 ePc    45 58.12   0.0
        0.7s     5.95nm          4.4mb
                 epP    46 35.40 149kmX
SVW    80.60 331 ePc    45 59.87  -0.7
        0.6s    41.11nm          5.3mb
                 epP    46 35.90 144kmX
TTA    80.89 333 ePc    46 01.08  -1.0
        0.6s     6.13nm          4.5mb
                 epP    46 38.36 149kmX
NB2    81.35  29 P      46 04.30  -0.1
        0.7s     5.90nm          4.4mb
BRW    81.68 341 eP     46 05.77  -0.1
COP    81.91  35 iP     45 58.70  -8.6X
        0.8s    98.51nm          5.6mb
SDN    83.11 325 ePc    46 13.45  -0.1
        0.6s    61.58nm          5.6mb
UPP    84.55  30 iP     46 21.40   0.8
KEV    87.19  20 ePKP   46 34.00   0.5
        0.9s    20.30nm          5.0mb
SDF    87.44  22 iP     46 35.40   0.7
MNK    90.79  36 eP     46 50.00  -0.7
BCAO   90.98  85 iPd    46 52.30  -0.1
        0.4s    30.00nm          5.7mb
                 ic     48 00.90
ADK    93.14 323 eP     47 01.68   0.1
        0.6s    14.16nm          5.3mb
OBN    95.52  33 iPc    47 32.00  19.6X
        1.2s    84.00nm
ANN    99.38  43 eP     47 18.00 -12.1X
        1.1s    50.00nm
                 e      54 11.00
SOC   101.46  43 ePdiff47 34.00  -5.4X
                 e      50 17.00
GAZ   101.76  50 iPdiff47 33.00  -7.9X
MBH   101.97  58 ePdiff47 22.90 -19.2X
PYA   103.53  42 ePdiff47 55 00   6.3X
                 i      50 23.00
MTA   105.64  43 iPdiff48 05.80   7.8X
        0.8s    60 00nm          6.7mb X
GRS   107.61  45 ePdiff48 18.00  10.9X
        1.6s    60.00nm
BOD   115.39 356 iPKPc 52 25.10  -3.5X
IRK   121.20   2 iPKP+ 52 30.00  -9.9X
        2.0s     0.25nm
      Z  14s     0.83um          5.5MszX
      N  14s     0.70um
      E  14s     0.54um
                 e      52 38.00
                 e      53 23.70
                 LR     25 07.00
CIT   121.24 355 ePKP   52 47.50   7.5X
LZH   137.32   4 iPKPd 53 12.80   1.4
        1.5s   100.00nm
      Z  16s     0.44um          5.3MszX
      N  13s     0.31um
                 pP     53 30.50
                 sP     53 40.50
                 PP     56 31.00
STK   139.19 228 iPKPd 53 15.30   0.6
        1.1s     2.80nm
KMI   148.08   7 PKPd  53 31.50   1.1
        1.5s    70.00nm
                 pP     53 43.50
ASPA  149.17 234 iPKPc 53 32.10   0.2
                 i      53 35.90
                 e      54 17.20
                 esSKS  03 13.20
                 e      03 24.40
                 ipSKS  04 01.40
WB2   150.40 241 ePKP   53 34.00   0.2
        0.5s    44.40nm
WRA   150.41 241 PKP    53 34.70   0.9
        0.8s    17.60nm
     S.D. = 0.8  on 131 of 161 obs.
-------------------------------------
   MAY 23, 1993  07h 40m 56.94± 0.42s
   35.357 N ± 2.6km    2.502 W ± 1.8km
   DEPTH =  26.5 ±  2.9 km
   5.4mb ( 95 obs.)  4.8Msz ( 20 obs.)
STRAIT OF GIBRALTAR              (385)
     MD 5.2 (RBA). Felt (V) ot
     Melilla, North Africa. Also felt
     at Ain Temouchent, Ghazoouet,
     Medromo ond Tlemcen, Algerio; ot
     Nador, Saidio, Oujdo ond
     Berkone, Morocco; and in the
     Almerio-Mologa areo, Spoin.

EMEL    0.38 262 iPgd  41 04.20  -1.0
                eSg    41 10.50
TAF     0.55 172 iP    41 05.00  -3.0X
ENIJ    1.63   8 iPnc  41 23.90  -0.3
EGUA    1.71 330 iPnc  41 25.00  -0.4
MAL     2.07 312 iPnd  41 30.40  -0.1
ECOG    2.10 336 iPnd  41 32.50   1.3
EHUE    2.45 358 iPnd  41 38.00   1.8
OJEN    2.58 288 iP    41 38.00   0.1
ELUO    2.62 328 iPnc  41 40.20   1.7
EALH    2.64  19 iPnc  41 38.60  -0.2
                eSn    42 11.20
EJIF    2.65 295 iPnc  41 37.50  -1.3
EPRU    2.73 307 iPnc  41 42.00   2.0
PLAT    2.76 287 iP    41 42.50   2.1
LIJA    2.81 304 iP    41 43.00   1.8
ALJ     2.84 298 iP    41 43.00   1.4
IFR     2.84 231 iP    41 40.50  -1.2
                eS     42 27.00
EBAN    2.99 340 iPnc  41 44.50   0.9
CNIL    3.06 290 iP    41 45.50   0.9
GIBL    3.16 299 iP    41 47.00   0.9
SFS     3.20 291 iP    41 48.00   1 4
EVIA    3.28 360 iPnc  41 48.00   0.2
EHOR    3.31 319 iPnc  41 48.20   0.1
ACU     3.57  27 iPnc  41 50.60  -1.3
                eSn    42 33.00
RBA     3.82 251 iP    41 53.50  -1.9
                iS     42 42.00
RTC     3.83 250 iP    41 58.00   2.5
                iS     42 32.00
EVAL    4.08 304 iPnc  41 58.50  -0.7
                eSn    42 46.00
ECHE    4.40  16 iPnd  42 04.50   0.8
AVE     4.55 245 eP    42 04.50  -1 4
                eS     43 13.00
GUD     5.44 347 iPnc  42 18.00  -0.4
                eSn    43 21.20
ETOR    5.47   4 iPnc  42 19.00   0.2
                eSn    43 20.00
EPLA    5.49 330 iPnc  42 19.00  -0.1
                eSn    43 20.90
EROQ    5.92  22 iPnc  42 24.00  -1.1
                eSn    43 30.40
EBR     5.94  23 iPd   42 24.50  -0.9
TIO     5.95 223 iPn   42 24.20  -1.6
                i      43 22.60
                iSn    43 31.10
ESEL    6.14  43 iPnc  42 26.20  -2.1
                eSn    43 35.00
LIS     6.29 304 iPd   42 29.30  -1.0
                iS     43 38.60
EGRA    7.04  13 iPnd  42 42.00   1 2
ECRI    7.24 360 iPnc  42 43.30  -0.5
                eSn    44 02.00
LHE     7.69  10 P     42 49.73  -0.3
ENSF    7.76  16 P     42 51.09   0.0
ISSF    7.77   9 P     42 51.09  -0.2
BOH     7.82   8 P     42 51.92   0.0
ATE     7.84  10 P     42 51.77  -0.4
ATE     7.84  10 P     42 52.09  -0.1
JAU     7.85  12 P     42 51.96  -0.4
ESCF    7.85  10 P     42 51.96  -0.4
MADF    7.89   9 P     42 52.66  -0.1
MADF    7.89   9 P     42 52.70  -0.1
ELYF    7.89   8 P     42 52.83   0.0
ERUA    7.90 334 iPnc  42 52.00  -1 0
SALF    7.93  20 P     42 52.31  -1.1
OGE     7.96  11 P     42 53.44  -0 3
EPF     7.97  15 eP    42 53.40  -0 6
       0.6s   266.95nm          6.6mb X
MLS     8.09  19 P     42 56.21   0 7
ETER    8.10  29 iPnd  42 54 20  -1 4
LESF    8.21  20 P     42 58.19   1 0
LSPF    8.32  23 P     42 58.69   0 0
MTHF    8.52  26 P     43 01.50  -0 1
GHAT    8.84  79 iPd   43 03.80  -2 2
STS     8.86 330 iPnd  43 04.30  -2 0
                eSn    44 39.00
BERT    9.53  93 iPd   43 12.00  -3 6X
LPO     9.73  16 eP    43 16.80  -1.5
       0.6s   98.50nm          6.3mb

TROT    9.88  85 iPd   43 18.00  -2.3
LFF     9 89  14 eP    43 18.90  -1.5
        0.6s  200.55nm          6.6mb X
CAF    10.17  19 eP    43 22.90  -1.5
KCHT   10.20  76 iPd   43 21.00  -3.8X
ZGN    10.28  81 iPd   43 22.50  -3.4X
RJF    10.40  16 eP    43 25.10  -2.3
        0.6s   59.90nm          6.0mb
CDR    10.47  35 iPd   43 29.50   1.1
                i      43 29.90
                e      45 23.50
LMR    10.58  38 eP    43 28.10  -1.8
        0.7s  107.15nm          6.2mb
LRG    10.60  38 eP    43 28.40  -1.7
        1.0s  216.80nm          6.4mb
FRF    10.82  38 eP    43 32.20  -0.9
        1.1s  161.65nm          6.2mb
CALN   11.08  38 P     43 36.80   0.0
LSF    11.30  14 eP    43 36.70  -3.0X
        0.8s   43.40nm          5.7mb
REVF   11.31  39 P     43 39.19  -0.7
MFF    11.37   8 eP    43 38.50  -2.2
        0.6s   38.95nm          5.8mb
AURF   11.39  39 P     43 41.24   0.2
SBF    11.43  39 P     43 41.42  -0.2
TOUF   11.44  38 P     43 42.15   0.3
PGF    11.47  48 P     43 41.40  -0.7
TCF    11.49  17 eP    43 39.90  -2.3
        0.6s   51.20nm          5.9mb
MAF    11.51  18 eP    43 39.90  -2.6X
        0.6s   58.10nm          6.0mb
AUTN   11.52  39 P     43 43.24   0.3
SAOF   11.58  39 P     43 43.35  -0.2
STV    11.65  37 P     43 44.28  -0.2
ENR    11.68  38 P     43 44.50  -0.5
IMI    11.70  40 P     43 44.05  -1.2
PZZ    11.73  36 P     43 45.92   0.3
DOI    11.80  36 P     43 46.70   0.2
BGF    11.89  18 eP    43 45.40  -2.3
        0.5s   48.40nm          6.0mb
RRL    11.90  34 P     43 49.45   1.5
ROB    11.96  39 P     43 49.31   0.6
BHB    12.06  35 P     43 51.23   1.3
FIN    12.07  40 P     43 49.49  -0.7
AVF    12.24  19 eP    43 50.00  -2.4
        0.7s   18.30nm          5.4mb
SMF    12 25  21 eP    43 50.90  -1.6
        0.9s   53.25nm          5.7mb
CKI    12.26  39 P     43 53.60   0.9
RSP    12.29  34 P     43 54.71   1.6
LPG    12.33  32 eP    43 53.70  -0.2
        1.0s   80.00nm          5.9mb
LPL    12.34  32 eP    43 53.60  -0.3
ERC    12.41  73 P     43 54.45  -0.2
LSD    12.48  33 P     43 56.63   0.8
PCP    12.48  39 P     43 55.67   0.0
HYF    12.51  16 eP    43 53.70  -2.3
CVT    12.52  75 P     44 02.90   6.7X
SSF    12.53  19 eP    43 54.50  -1.8
        0.7s   23.60nm          5.5mb
LBF    12.59  21 eP    43 55.60  -1.5
        0.8s   21.35nm          5.4mb
LPF    12.71   4 eP    43 56.90  -1.7
        0.6s   41.65nm          5.8mb
LOR    12.82  20 eP    43 58.90  -1.2
        0.8s   20.95nm          5.3mb
     Z  21s     1.10um          5.6MszX
ORO    12.98  35 P     44 03.00   0.7
PII    13.06  46 P     44 04.60   1.4
GRR    13.08   5 eP    44 01.10  -2.4
        0.7s   68.35nm          5.8mb
BOB    13.11  41 P     44 04.80   0.8
FAI    13.19  77 P     44 06.20   1.2
MMK    13.30  33 P     44 09.70   3.0X
BDI    13.30  45 P     44 06.10  -0.5
LDF    13.34   7 eP    44 05.20  -1.8
        0.6s   36.25nm          5.5mb
FLN    13.48   6 eP    44 06.30  -2.5
        0.4s   24.40nm          5.5mb
     Z  19s     4.57um          5.7MszX
RMP    13.52  57 P     44 15.50   6.1X
GIB    13.53  74 P     44 18.70   9.1X
VAI    13.53  36 P     44 11.20   1.7
MNS    13.74  55 P     44 12.00  -0.4
TMA    13.76  35 P     44 23.78  11.1X
PGD    13.86  48 P     44 13.90  -0.1
LOMF   13.87  27 P     44 15.24   1.3
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23d 07h

CRE	13.87	49	P	44	13.90	-0.2					e	45	11.80				1.4s	204.00nm		5.4mb			
SFI	13.97	48	P	44	15.60	0.4					e(S)	48	17.50			Z	10s	1.20um		4.6MszX			
ASS	14.04	52	P	44	15.90	-0.4	DBN	17.62	16	eP	45	04.00	2.1					i	45	57.00			
MNO	14.05	74	P	44	19.00	2.5X		Z 12s	7.10um									i	46	08.40			
MEU	14.18	78	P	44	20.60	2.4					eS	48	36.00					iS	49	55.90			
BBS	14.22	29	P	44	19.53	0.9	HCY	17.79	60	iPd	45	04.16	0.0			CEI	22.27	49	eP	46	12.00	18.7X	
SAL	14.23	40	P	44	19.60	0.9	WET	17.83	35	iPc	45	03.40	-1.2			UZH	22.59	46	iPc+	45	57.00	0.6	
HAU	14.25	25	eP	44	18.90	0.0		1.3s	163.00nm				5.0mb				1.0s	330.00nm			5.8mb		
	0.7s	11.45nm				4.6mb		Z 11s	3.00um				4.9Msz			Z	15s	1.20um			4.5MszX	
Z	17s	2.05um				5.2Msz	WTS	17.92	19	eP	45	08.50	2.8			N	15s	1.00um					
BSF	14.26	26	P	44	19.98	0.8		1.0s	89.70nm				4.9mb			E	15s	1.70um					
VITF	14.31	24	P	44	20.63	0.9	BRY	17.95	59	iPd	45	06.21	-0.2					i	46	04.00			
RSM	14.34	49	P	44	21.40	1.4	BDV	17.98	61	iPd	45	06.59	0.0					i	46	08.00			
MOF	14.40	27	P	44	21.15	0.2	GEC2	18.01	37	Pn	45	05.60	-1.4					ipP	46	21.50	119kmX		
ARV	14.43	51	P	44	22.30	1.0	KHC	18.14	36	Pd	45	08.00	-0.6					isP	46	32.00			
ZLA	14.59	31	iPc	44	24.30	0.8		1.1s	56	60nm			4.6mb					isS	50	46.00			
ATN	14.67	74	P	44	28.29	3.8X		Z 12s	3.40um				4.9Msz			RDO	22.71	67	eP	45	57.60	-0.1	
DUI	14.69	60	P	44	25.60	0.8		N 10s	2.00um							BMR	22.91	50	ePd	46	01.00	1.4	
ECH	14.71	26	P	44	25.39	0.4		E 12s	3.00um							NPS	22.92	82	eP	46	01.00	1.2	
FEL	14.76	29	P	44	26.15	0.5					e	45	13.50			PRK	23.17	72	eP	46	04.10	1.9	
OSS	14.78	36	P	44	28.40	2.3					e	45	20.00			EZN	23.22	70	iP	46	01.20	-1.5	
LIBD	14.82	27	P	44	27.42	1.0					e	46	27.50			BUC	23.64	59	eP	46	00.00	-6.7X	
SLE	14.86	30	ePc	44	27.60	0.7					e	48	58.00			MLR	23.79	56	ePc	46	09.50	1.1	
SLE	14.86	30	P	44	34.72	7.8X	ULC	18.20	62	iPd	45	09.31	0.0			IZM	23.95	74	iP	46	11.40	1.5	
CDF	14.92	26	P	44	28.54	0.7	HOF	18.24	31	iPd	45	10.80	1.0			KGT	24.00	69	eP	46	09.00	-1.2	
CME	14.94	353	eP	44	27.40	-0.5	NKY	18.25	59	iPd	45	09.95	0.0			ISR	24.11	57	eP	46	08.00	-3.4X	
WLS	14.95	26	P	44	28.98	0.9	TTG	18.33	61	iPd	45	10.87	0.1			LVV	24.14	45	iP+	46	12.00	0.5	
SGO	14.97	64	P	44	32.80	4.4X	MOX	18.39	29	iPc+	45	12.10	0.5					e	46	39.00			
MGR	15 06	66	P	44	35.30	5.8X		1.6s	201	00nm			5.0mb			KDS	24.33	204	eP	46	19.30	5.7X	
CTI	15.12	41	P	44	30.50	0.1					e	45	22.80			EDC	24.42	69	eP	46	15.00	0.6	
SOI	15.13	74	Pd	44	32.60	2.2					eS	48	52.00			DMK	24 44	66	iP	46	14.80	0.3	
STR	15.24	27	P	44	32.72	0.9	WIT	18.63	18	eP	45	16.00	1.6			BNT	24.47	69	eP	46	13.50	-1.3	
CZI	15.32	70	P	44	37.40	4.4X					e	46	29.00			PTT	24.50	53	eP	46	17.00	2.0	
DOMF	15.48	16	P	44	35.51	0.6	PLE	18.68	58	iPd	45	15.30	0.0			CIN	24 65	76	eP	46	17.00	0.5	
GRI	15.49	72	P	44	39.40	4.2X	VLS	18.71	75	eP	45	14.10	-1.4			KCT	24.80	69	iP	46	17.50	-0.5	
VVI	15.49	42	P	44	35.65	0.5	SOP	18.79	43	eP	45	15.60	-0.9			CTT	24.89	67	iP	46	18.50	-0.4	
CSI	15.54	68	P	44	40.20	4.4X	PVY	18.88	61	iPd	45	17.80	0.1			DST	25.00	71	iP	46	21.00	1.0	
TDS	15.55	68	P	44	40.20	4.2X	IVA	18.90	60	iPd	45	18 03	0.1			CFR	25.23	58	eP	46	19.00	-3.0X	
MENF	15.57	11	P	44	35.80	-0.2	VKA	18.99	41	iPc	45	18.00	-0.9			ITU	25.33	67	iPc	46	23.00	0.0	
LANF	15.59	26	P	44	37.29	0.9					i	45	31.60			ISK	25.36	68	eP	46	26.00	2.7	
DOU	15.61	17	Pc	44	43.70	7.0X	OHR	19.16	66	iP	45	20.60	-0.5			KONO	25.56	14	iPc	46	25.00	0.0	
	1.0s	456.70nm				5.6mb		1.4s	949	00nm			5.8mb			YLV	25.58	69	eP	46	24.50	-1.0	
HOFF	15.61	26	P	44	37.15	0.5	PRU	19.19	35	eP	45	19.50	-1.7			HRT	25.81	68	iP	46	26.60	-1.0	
WLF	15.64	21	iPc	44	38.60	1.6		0.9s	82.80nm				5.0mb			KSL	26.00	79	eP	46	29.30	0.0	
		e		50	29.00			N 10s	2.50um							KIS	26.15	54	iPc+	46	28.00	-2.5	
SOTA	15.68	37	iPc	44	38.30	0.7					e	45	28.40				1.0s	200.00nm			5.7mb		
	1.1s	322.00nm				5.4mb					e	49	10.00					i	46	40.00			
MOTA	15.71	36	iPc	44	38.30	0.2	ZST	19.38	43	iP	45	28.70	5.2X			ALT	26.16	72	eP	46	32.00	1.1	
	1.3s	110.00nm				4.9mb	CLL	19.47	30	iPc	45	23.90	-0.5			ELL	26.18	77	eP	46	31.60	0.5	
ROI	15.71	69	P	44	38.20	0.1		1.2s	120.00nm				5.0mb			EYL	26.18	69	eP	46	28.00	-3.1X	
WTTA	15.92	37	iPc	44	41.20	0.4					eS	49	09.00			GPA	26.29	69	eP	46	29.00	-3.0X	
	1.6s	516.00nm				5.4mb					iPcP	49	44.20			BCK	26.64	76	eP	46	34.70	-0.6	
		i		44	52.90		BRG	19.54	32	iPc	45	24.40	-0.9			FOO	26.70	8	eP	46	34.97	-0.5	
SNF	15.93	16	iPc	44	40.75	0.0		1.3s	180.00nm				5.2mb			NB2	27.16	15	P	46	38.20	-1.6	
		id		44	45.67						i	46	22.60				0.9s	7.80nm			4.4mb X		
WATA	15.94	37	iPc	44	41.30	0.3					iS	49	18.00			UPP	27.79	22	iP	46	43.30	-2.1	
FVI	16.07	41	P	44	42.80	0.3	KZN	19.78	68	eP	45	26.20	-1.8			MOL	27.96	10	eP	46	43.95	-2.9	
TRI	16.09	45	P	44	41.70	-1.1	SKO	19.79	63	iPc	45	27.70	-0.4			KAS	28.92	67	eP	46	56.00	0.1	
UCC	16.22	16	P+	44	45.00	0.7		1.3s	534.00nm				5.7mb			CSS	29.20	80	eP	46	58.50	0.1	
		S		47	58.00		EKA	19.98	359	P	45	18 00	-12.0X			NUR	30.63	26	eP	47	08.50	-2.3	
VOY	16.35	44	iPn	44	50.50	4.3X		1.1s	4.80nm								0.6s	4.00nm			4.4mb X		
FUR	16.38	34	iPc	44	45.80	-0.7	BRN	20.39	28	ePc	45	35.50	1.3			ADI	31.16	83	eP	47	16.60	0.8	
RBL	16.40	43	P	44	50.80	3.9X	BRNL	20.46	29	iPc	45	35.30	0.4			MML	31.48	84	eP	47	19.70	1.0	
BRT	16.45	65	P	44	49.68	2.3	VAY	20.51	66	iPc	45	34.00	-1.6			AKU	31.75	348	iP	47	22.00	1.4	
CEY	16.49	46	ePn	44	52.00	4.0X		1.2s	518.00nm				5.8mb				1.2s	62.50nm			5.4mb		
ENN	16.57	19	iPc	44	49.30	0.5	KSP	20.59	35	iPc	45	36.10	-0.3			PUL	32.38	31	ePd	47	24.50	-1.7	
	1.0s	100.00nm				4.9mb		1.2s	347.00nm				5.6mb				1.4s	60.00nm			5.3mb		
		e		46	36.00		VLI	20.60	79	eP	45	36.80	0.2				Z 11s	1.80um			5.0MszX	
HVAR	16.60	56	iPd	44	51.30	2.0	TIM	20.72	53	iPc	45	38.00	0.3				N 11s	1.20um					
KBA	16.67	41	iPd	44	51.60	1.2	SSR	20.77	55	ePd	45	38.00	-0.2				E 11s	1.60um					
	1.1s	71.50nm				4.7mb	EAB	20.87	357	ePc	45	39.70	0.5			MOS	34.05	41	eP	47	40.00	-0.7	
		i		45	05.20			1.2s	119.00nm				5.2mb				Z 13s	2.10um			5.1MszX	
HAE	16.68	360	eP	44	49.00	-1.2	EBH	20.91	358	eP	45	39.90	0.4				N 11s	0.66um					
	1.2s	102.00nm				4.8mb	RAC	21.06	39	iP+	45	41.90	0.8				E 11s	1.21um					
LJU	16.72	45	ePn	44	50.40	-0.4		Z 10s	3.20um				5.0MszX			SDF	36.12	18	iP	47	57.90	-0.4	
HTR	16.73	358	eP	44	51.20	0.4		N 10s	2.70um							TRO	36.29	12	eP	48	12.50	12.9X	
	1.3s	29.00nm				4.2mb X		E 10s	3.20um							GRO	37.67	63	iPd	48	13.00	1.5	
BHG	16.85	38	eP	44	51.50	-0.9					eS	49	46.00				1.0s	160.00nm			5.8mb		
	1.7s	322.00nm				5.2mb	ELO	21.13	358	ePc	45	42.20	0.3				Z 14s	3.50um			5.3MszX		
TNS	16.86	25	iPnc	44	53.60	1.0		1.1s	33.00nm				4.7mb				N 14s	2.50um					
VBY	16 86	48	ePn	44	56.00	3.4X	ATH	21.17	75	eP	45	41.70	-0.7				E 16s	4.50um					
LCI	16.89	67	P	44	55.50	2.5	EDU	21.20	359	ePc	45	42.80	0.3					eS	54	04.00			
BNS	17.10	21	ePc	44	56.40	0.9	EDR	21.57	360	eP	45	46.50	0.3			DAG	42.16	354	iPd	48	48.50	0.2	
		e		50	35.00		SPC	21.67	43	iPc	45	49.40	1.9				1.0s	50.00nm			5.2mb		
GRF	17.49	31	ePc	45	00.90	0.4		1.5s	806.00nm				5.9mb			ARU	45.70	43	iPc+	49	16.50	-0.6	
	1.7s	250.00nm				5.1mb	VAM	21.75	82	eP	45	51.10	2.8X				1.3s	450.00nm			6.2mb		
Z	16s	2.00um				6.8Msz	OJC	21.98	41	iPd	45	50.70	0.3				Z 11s	1.00um			5.0MszX		

				e	49	21.00						e	52	21.00			KDC	83.88	344	eP	53	26.50	1.3
				e	49	25.50						eS	01	54.00				1.2s	104.00nm			5.9mb	
				eS	56	03.00			PRY	68.12	151	iPd	51	55.00	-1.8		KVN	85.04	315	eP	53	33.81	2.1
SVE	46.82	42	iPc	49	26.00	0.0				1.0s	34.00nm			5.4mb			LBFM	85.58	319	eP	53	34.97	0.6
	1.5s	20.00nm			4.9mb				POO	68.59	82	iPc	52	03.00	3.1X		BJI	86.10	42	eP	53	37.50	0.8
	Z 14s	1.00um			4.9MszX				SEK	69.43	152	eP	52	04.50	-0.4			1.3s	104.00nm			5.9mb	
	N 13s	0.40um								0.8s	53.00nm			5.7mb						eS	04	14.00	
	E 13s	0.90um								Z 20s	6.66um			5.9MszX			MEMM	86.46	315	(P)	53	39.70	1.2
			e	51	12.00				BLF	69.59	153	iPd	52	05.60	-0.3		WDC	86.47	319	P	53	50.00	11.5X
			ePPP	52	03.00					0.5s	25.00nm			5.6mb				Z 20s	0.27um			4.6Msz	
			eS	56	19.00				OLY	69.81	300	eP	52	05.85	-1.3		ORV	86.62	317	eP	53	39.12	-0.1
LMN	47.35	303	eP	49	33.00	2.7X			FRS	69.86	154	iPc	52	06.50	-0.8		GSC	86.78	312	(P)	53	41.88	1.6
ASH	48.12	68	eP	49	37.00	0.5				0.8s	26.00nm			5.4mb			CMB	87.04	316	P	53	50.00	8.6X
FRB	48.43	327	eP	49	38.00	-0.4			INK	70.41	343	eP	52	10.50	0.3			Z 21s	0.38um			4.8Msz	
	1.0s	11.00nm			4.8mb					1.0s	5.00nm			4.6mb			ISA	87.54	313	eP	53	44.62	0.7
CBM	49.40	305	eP	49	46.09	-0.1			MOY	70.60	40	iPd	52	13.10	1.5			0.8s	8.96nm			5.1mb	
	0.8s	102.47nm			5.9mb					1.3s	140.00nm			5.9mb				Z 20s	0.45um			4.9Msz	
	Z 20s	1.24um			4.9Msz				SUR	70.84	159	eP	52	04.50	-9.0X		SAO	88.53	315	P	54	00.00	11.5X
MAIO	49.49	70	iPc	49	46.60	-0.5				0.9s	55.00nm			5.7mb				Z 21s	0.31um			4.7Msz	
MIM	50.39	303	eP	49	54.07	0.3			CER	71.34	161	eP	52	06.50	-9.8X		NST	91.01	70	eP	54	01.00	0.7
BNH	52.07	302	eP	50	06.58	0.0				1.0s	68.00nm			5.7mb			YSS	92.25	23	ePd	54	06.70	1.1
HRV	52.85	300	eP	50	12.54	0.1			MIAR	71.79	300	P	52	30.00	10.9X			N 17s	0.40um				
	1.0s	24.41nm			5.1mb					Z 18s	0.50um			4.8Msz				E 17s	0.30um				
	Z 19s	0.45um			4.5Msz				GKN	72.23	68	P	52	21.30	-0.7				e		05	14.00	
JAO	52.86	315	eP	50	11.50	-0.8			ZAK	72.53	40	iPc	52	24.70	1.5		HON	119.03	334	PKP	00	00.00	14.8X
RSNY	54.33	303	eP	50	23.44	0.2				1.5s	118.00nm			5.7mb				Z 21s	0.25um			4.8Msz	
	1.2s	43.13nm			5.4mb							e	55	03.00			WRA	139.14	80	PKP	00	09.10	-14.4X
	Z 20s	1.00um			4.9Msz							eS	01	48.00				0.7s	0.90nm				
GAC	54.64	305	ePc	50	26.50	1.0			DMN	72.79	68	P	52	25.00	-0.5		WB2	139.15	80	ePKP	00	21.10	-2.5X
PAL	54.99	299	eP	50	27.69	-0.4			KKN	72.83	68	P	52	24.90	-0.7			0.7s	7.10nm				
PNJ	55.19	299	iP	50	29.98	0.4			HYB	72.98	81	iPc	52	25.50	-0.9		ASPA	140.60	85	ePKP	00	19.00	-7.1X
GMTN	55.22	299	iP	50	30.30	0.5				1.0s	90.00nm			5.7mb				1.0s	7.10nm				
GPD	55.38	299	eP	50	30.81	-0.1			PKI	73.04	68	P	52	25.80	-1.2		ADE	148.42	101	iPKPc	00	43.60	4.6X
EEO	56.75	307	eP	50	43.00	2.3			GUN	73.22	68	P	52	27.40	-0.7		CTA	148.60	69	iPKPc	00	44.10	4.4X
WLVO	57.17	303	P	50	44.20	0.5			GRM	73.54	155	e(P)	52	30.50	1.3			1.0s	22.50nm				
OUE	57.55	74	eP	50	46.60	-0.2				1.0s	68.00nm			5.6mb			STK	150.00	94	iPKPc	00	47.20	5.7X
NRI	57.61	25	iPc	50	47.20	0.7			RSSD	73.62	313	eP	52	29.38	-0.6			0.9s	16.50nm				
	1.5s	98.00nm			5.6mb					1.2s	19.22nm			5.0mb			OLP	150.28	82	iPKPc	00	48.70	6.7X
			i	50	55.00					Z 21s	0.45um			4.7Msz				S.D. = 1.1	on 346 of 402 obs.				
			i	51	36.00				OCO	74.01	302	iPc	52	34.40	2.3		----------						
LSZ	58.16	145	iPd	50	51.10	0.1			GBA	74.13	84	Pc	52	32.90	-0.1			MAY 23, 1993 07h 40m 58 04± 0.28s					
FRU	58.38	57	iPc	50	51.80	-0.5				0.9s	16.00nm			5.0mb				40.102 N ± 3.3km 20.666 E ± 2.3km					
	1.6s	200.00nm			5.9mb				YAK	75.59	21	iPc+	52	40.70	0.0			DEPTH = 12.7 ± 2.1 km					
	Z 16s	0.40um			4.6MszX					1.8s	174.00nm			5.8mb				4.1mb (1 obs.) 4.6Msz (1 obs.)					
		i	51	03.80						Z 20s	0.50um			4.8Msz				GREECE-ALBANIA BORDER REGION (392)					
		e	51	37.80						N 17s	0.50um							ML 4.1 (ATH), 4.0 (TIR).					
ACTO	58.41	304	P	50	52.33	-0.1						eS	02	21.00									
TYNO	58.46	303	P	50	52.55	-0.2			FBA	76.44	346	eP	52	45.70	0.2		LSK	0.07	314	iPgc	41	00.30	-0.6
CBN	58.48	297	eP	50	53.30	0.4			IMA	76.48	348	eP	52	46.60	0.8					iSg	41	02.60	
	1.0s	20.00nm			5.2mb					1.0s	16.80nm			5.0mb			TPE	0.54	291	iPnc	41	10.50	1.6
MCWV	59.71	299	P	51	10.00	8.6X			GOL	76.94	309	eP	52	48.52	-0.5					iSn	41	24.00	
	Z 20s	0.89um			4.9Msz					1.0s	6.57nm			4 6mb			SRN	0.56	247	iPgc	41	08.50	-0.7
TLG	60.11	56	iP	51	03.50	-0.8				Z 20s	1.12um			5.2Msz						iSg	41	17.20	
	1.4s	62.00nm			5.5mb				ILT	77 02	359	iPd	52	49.40	0.9		IGT	0.62	204	ePg	41	09.59	-0.7
WIN	60.53	159	iPc	51	08.00	0.6				1.5s	25.00nm			5.0mb						eSg	41	20.59	
	1.2s	30.00nm			5.3mb							e	52	59.00			KEK	0.77	240	ePg	41	12.50	-0.3
CEH	60.65	295	eP	51	08.29	0.4			LRM	77.48	318	eP	52	50.50	-1.4		FNA	0.87	38	ePg	41	13.68	-0.9
	1.3s	33.98nm			5.3mb				BW06	77.68	314	iPc	52	52.09	-1.0					eSg	41	25.72	
	Z 22s	0.73um			4.8Msz					1.4s	28.38nm			5.1mb			KZN	0.87	76	ePg	41	13.00	-1.6
PRZ	61.10	57	iPc	51	12.00	0.9						ePP	55	53.79			VLO	0.97	293	iPn	41	17.40	1.2
FCC	61.32	324	eP	51	19.00	6.8X			NEW	78.40	322	eP	52	55.83	-0.8					iSn	41	35.80	
ELT	61.90	43	iPc	51	15.00	-1.2				1.0s	14.73nm			5.0mb			OHR	1.01	6	iPg	41	17.00	0.0
	1.5s	97.00nm			5.7mb				PMR	79 66	344	eP	53	03.60	0.4					i	41	19.60	
MBC	61.91	346	eP	51	15.50	-0.5				0.9s	18.10nm			5.1mb						i	41	29.20	
	1.0s	9.00nm			4.9mb				SIT	79.69	336	P	53	10.00	6.6X					i	41	33.40	
PRM	63.85	294	eP	51	29.85	0.5				Z 18s	0.58um			5.0Msz			TIR	1.39	334	ePn	41	24.00	1.0
GOGA	64.97	294	eP	51	36.79	0.1			TTA	79.77	348	eP	53	04 80	0.9					iS	41	47.00	
	1.2s	16.95nm			5.0mb				CCH	79.89	240	P	53	06.50	1.0		LIT	1.40	89	ePb	41	22.56	-0.7
	Z 20s	0.40um			4.6Msz				DAU	80.13	313	ePd	53	06.79	0.2					eSb	41	43.64	
ULM	65.75	315	ePd	51	43.10	1.7			HVU	80.18	315	eP	53	06.36	-0.2		GRG	1.57	57	ePb	41	26.32	0.6
NDI	66.22	71	iP	51	44.00	-0.7			EMUT	80.24	312	eP	53	06.36	-0.7					eSb	41	47.80	
KSR	66.94	151	eP	51	48.00	-1.4			SRU	80.49	311	eP	53	07.57	-0.7		PHP	1.59	354	iPnd	41	29.80	3.8X
	0.7s	16.00nm			5.3mb				CP2	80.61	346	(P)	53	07.73	-0.8					iSn	41	54.60	
ELC	67.37	300	eP	51	49.86	-2.1			LPB	80.73	242	eP	53	08.00	-2.1		AGG	1.68	129	ePb	41	28.32	1.0
SLR	67.38	150	iPc	51	51.00	-1.2			CNCB	80.83	242	eP	53	09.00	-1.8					eSb	41	53.48	
	0.9s	33.00nm			5.5mb							LR	19	12.00			LACI	1.70	335	iPnd	41	30.00	2.6X
	Z 18s	13.50um			6.2MszX				DUG	81.20	313	eP	53	11.43	-0.5					iSn	41	58.80	
SLM	67.45	302	P	52	00.00	7.6X				0.8s	7.65nm			4.8mb			THE	1.83	72	ePb	41	29.35	-0.1
	Z 18s	0.91um			5.0Msz					Z 18s	0.32um			4.7Msz			VAY	1.89	49	iPnc	41	30.60	0.3
FVM	67.89	302	ePd	51	53.15	-2.1			SVW	81.40	347	eP	53	13.40	0.9					iSn	41	59.30	
	1.0s	47.30nm			5.6mb				LON	81.77	323	eP	53	14.52	-0.2		VLS	1.92	182	ePn	41	32.50	1.7
	Z 18s	1.35um			5.2Msz				MSU	81 87	312	eP	53	15.54	-0.1		SKO	1.96	17	iPn	41	33.50	2.2X
		e	52	07.80					MOCB	82.13	237	P	53	17.30	0.0					iPg	41	36.00	
TIK	67.97	15	iPc	51	55.00	-0.2			SHW	82.37	323	eP	53	18.55	0.6					i	41	38.80	
	2.0s	143.00nm			5.7mb				MGD	82.38	13	ePc	53	19.60	2.1					i	41	48.20	
	Z 18s	0.50um			4.8Msz					1.0s	30.00nm			5.3mb						i	41	56.50	
		i	52	07.00					ARUT	83.10	312	eP	53	22.20	0.3					iSg	42	02.00	

23d 07h

KNT	2.00	57	ePn	41	31.52	-0.4
			eSn	41	59.28	
LCI	2.09	277	Pc	41	32.50	-0.7
			eSn	42	04.80	
ULC	2.15	331	iPnc	41	36.18	2.2
			iSn	42	11.97	
SOH	2.17	70	ePn	41	34.64	0.2
			eSn	42	04.72	
PAIG	2.32	93	ePn	41	35.68	-0.9
			eSn	42	07.24	
SRS	2.45	65	iPn	41	38.19	-0.1
PVY	2.54	348	iPnd	41	43.59	3.8X
			iSn	42	24.93	
OUR	2.55	84	ePn	41	39.43	-0.3
TTG	2.56	336	iPnd	41	42.14	2.3
			iSn	42	23.00	
BDV	2.58	328	iPnc	41	41.61	1.4
			iSn	42	21.43	
BRT	2.75	287	P	41	43.80	1.1
IVA	2.83	348	iPnd	41	47.31	3.5X
			iSn	42	31.94	
HCY	2.86	326	iPnc	41	44.79	0.7
			iSn	42	27.17	
NKY	2.98	336	iPnc	41	48.21	2.2
			iSn	42	33.05	
BAI	3.07	291	P	41	47.50	0.5
ATH	3.19	131	ePn	41	49.70	0.9
ROI	3.20	262	P	41	49.30	0.3
BRY	3.22	331	iPnd	41	50.55	1.2
			iSn	42	37.23	
TDS	3.36	264	P	41	53.30	2.0
PLE	3.36	344	iPnd	41	54.23	2.8
			iSn	42	43.76	
CSI	3.38	266	P	41	51.60	0.0
ACI	3.52	259	P	41	54.20	0.6
CZI	3.61	257	P	41	55.90	1.1
VLI	3.82	151	ePn	41	59.00	1.2
RDO	3.85	73	ePn	41	57.50	-0.7
RDO	3.85	73	ePb	42	01.20	3.0
MGR	3.92	272	P	42	00.10	0.9
SGO	4.12	278	P	42	02.40	0.4
SOI	4.12	242	P	42	01.30	-0.7
			eSn	42	50.80	
ALN	4.18	77	ePn	42	01.56	-1.3
GMB	4.20	244	P	42	03.13	-0.3
EZN	4.36	92	iPn	42	04.20	-1.2
HVAR	4.41	316	ePn	42	05.40	-0.7
PRK	4.41	99	ePn	42	08.00	1.8
ATN	4.49	246	P	42	06.10	-1.2
			eSn	42	57.20	
DUI	4.96	290	P	42	14.90	0.9
KGT	5.09	84	ePn	42	05.00	-10.8X
MNO	5.13	247	P	42	16.40	-0.2
IZM	5.40	106	eP	42	20.00	-0.2
MEU	5.40	238	P	42	17.20	-3.1
			eSn	43	18.40	
SDI	5.43	289	P	42	21.20	0.5
PZI	5.45	238	P	42	17.06	-3.9X
VAM	5.46	148	ePn	42	24.00	2.9X
BZS	5.56	7	ePc	42	10.00	-12.4X
AOU	5.92	295	P	42	28.40	0.8
CMP	6.09	31	ePd	42	37.00	7.2X
RDP	6.24	288	P	42	33.80	1.7
CIN	6.31	111	eP	42	33.00	0.0
MNS	6.44	293	P	42	35.80	0.9
ASS	6.69	299	P	42	39.20	0.7
ARV	6.69	303	P	42	37.30	-1.2
VBY	6.70	325	ePn	42	38.00	-0.6
			eSn	43	54.50	
PTJ	6.74	331	iP	42	38.00	-1.2
RSM	7.21	305	P	42	45.00	-0.7
CEY	7.26	323	eP	42	45.90	-0.4
			eS	44	07.30	
VRI	7.28	36	ePd	42	48.00	1.4
			e	46	10.00	
CRE	7.40	301	P	42	48.20	-0.2
LJU	7.44	325	eP	42	48.00	-0.9
			eS	44	13.00	
CFR	7.50	45	eP	42	51.00	1.3
TRI	7.55	320	e(Pn)	42	49.70	-0.7
			e(Sn)	44	10.90	
SFI	7.59	303	P	42	51.00	0.0
PGD	7.65	302	P	42	51.80	-0.3
VOY	7.72	322	ePn	42	51.80	-1.1
			eSn	44	18.30	
FIR	7.92	301	e(Pn)	42	53.50	-2.0
			i(Sn)	44	10.00	
RBL	8.18	323	P	42	58.30	-1.0
VVI	8.42	317	P	43	00.70	-1.9
FVI	8.66	321	P	43	04.70	-1.2
KBA	8.76	325	iPd	43	06.30	-1.2
	0.6s		4.90nm			5.0mb X
			i	44	43.20	
			i	44	46.50	
CTI	8.88	315	P	43	07.00	-2.0
WTTA	9.69	321	iPc	43	20.10	-0.2
	0.4s		8.30nm			5.4mb X
WATA	9.77	321	iPd	43	20.40	-1.0
SOTA	9.87	319	iPc	43	22.20	-0.5
	0.4s		7.60nm			5.5mb X
MOTA	10.01	319	iPd	43	23.50	-1.2
	0.8s		18.70nm			5.6mb X
GEC2	10.05	333	Pn	43	23.90	-1.3
KHC	10.34	333	eP	43	29.50	0.5
UPP	19.87	355	iP	45	30.00	-1.5
NUR	20.58	6	iP	45	36.70	-2.3X
	0.6s		5.30nm			4.1mb
PMR	78.32	355	P	53	10.00	11.1X
	Z 19s		0.25um			4.6Msz
WRA	120.48	91	PKP	00	03.00	11.9X
	1.7s		0.50nm			

S.D. = 1.2 on 85 of 98 obs.

% MAY 23, 1993 08h 09m 29.15± 0.93s
39.175 N ± 7.2km 27.543 E ±12.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

IZM	0.81	196	ePg	09	44.90	0.1
			eSg	09	55.90	
DST	0.94	63	iPn	09	46.90	-0.3
EDC	1.20	12	ePn	09	52.00	0.6
KCT	1.24	30	iPn	09	52.40	0.2
KGT	1.29	352	iPn	09	52.50	-0.5

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

& MAY 23, 1993 08h 16m 30.20s
19.723 N 156.134 W
DEPTH = 44.2km
4.0mb (2 obs.)
HAWAII (613)
<HVO-P>. MD 4.0 (HVO). Felt ot Glenwood, Kailuo-Kono, Koholo ond Waimeo, Howaii. Also felt on Moui ond in the eastern port of Oohu.

KKH	0.13	121	iPc	16	36.03	-2.3
MHA	0.51	25	iPd	16	39.88	-1.4
HPO	0.84	139	iPd	16	44.12	-1.5
HKL	0.99	353	ePd	16	45.95	-2.3
DHH	2.19	315	eP	17	01.06	-3.8
			eS	17	21.58	
PMR	42.12	5	P	24	25.00	5.6
	0.6s		2.46nm			4.1mb
FBA	45.49	5	(P)	24	53.50	6.8
	0.6s		1.23nm			4.0mb

7 obs. associoted

% MAY 23, 1993 08h 21m 48.05± 3.90s
44.788 N ± 5.6km 6.530 E ±27.5km
DEPTH = 0.0km (geophysicist)
FRANCE (538)
ML 1.8 (GEN).

RRL	0.22	54	P	21	53.34	0.8
			S	21	55.40	
PZZ	0.50	125	P	21	58.42	0.5
			S	22	04.46	
BHB	0.52	84	P	21	57.92	-0.6
			S	22	03.64	
RSP	0.63	55	P	22	00.62	0.0
			S	22	07.39	
STV	0.79	133	P	22	03.73	0.0
LSD	0.80	33	P	22	03.69	-0.4
			S	22	13.25	
ENR	0.85	131	P	22	04.76	-0.2

S.D. = 0 6 on 7 of 7 obs.

? MAY 23, 1993 08h 44m 35.02± 7.84s
34.933 N ±59.3km 2.449 W ±29.0km
DEPTH = 10.0km (geophysicist)
MOROCCO (395)
mbLg 2.8 (MDD).

EMEL	0.55	312	iPgd	44	46.50	0.2
			eSg	44	52.50	
ECOG	2.51	339	ePn	45	15.50	-1.1
			eSn	45	41.50	
EHUE	2.88	358	ePn	45	22.00	0.2
			eSn	45	51.60	
EJIF	2.89	303	ePn	45	22.00	0.1
EVIA	3.70	359	ePn	45	34.10	0.6
			eSn	46	12.50	
EVAL	4.37	309	ePn	45	42.70	-0.2

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

% MAY 23, 1993 08h 55m 47.73± 0.84s
39.252 N ± 6.8km 27.722 E ± 7.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

DST	0.79	63	ePn	56	03.00	-0.1
IZM	0.93	203	ePn	56	05.40	0.0
EDC	1.10	6	ePn	56	09.00	0.6
KCT	1.11	26	iPn	56	08.50	0.0
EZN	1.22	298	iPn	56	10.70	0.2
KGT	1.24	345	iPn	56	10.00	-0.8

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

% MAY 23, 1993 08h 58m 23.62± 3.43s
17.893 N ±24.8km 67.029 W ±11.1km
DEPTH = 10.0km (geophysicist)
MONA PASSAGE (89)

MGP	0.13	333	P	58	26.70	0.0
			S	58	33.90	
PORP	0.41	67	P	58	32.10	0.2
LRS	0.43	24	P	58	32.60	0.1
			S	58	43.90	
CLLP	0.47	67	P	58	33.00	-0.2
APR	0.62	27	P	58	36.00	-0.2

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

% MAY 23, 1993 09h 07m 54.67± 0.93s
39.683 N ± 9.9km 29.418 E ± 7.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.6 (ISK).

DST	0.61	263	ePg	08	06.00	-1.1
			eSg	08	19.50	
ALT	0.83	139	ePn	08	11.00	0.3
KCT	0.99	305	ePn	08	13.70	0.2
EYL	1.05	32	ePn	08	14.00	-0.5
KGT	1.80	296	ePn	08	27.00	1.1

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

% MAY 23, 1993 09h 09m 07.81± 0.83s
39.130 N ± 6.7km 27.613 E ± 8.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

IZM	0.78	201	ePg	09	22.90	-0.2
			eSg	09	35.90	
DST	0.92	59	iPg	09	25.80	0.4
			eSg	09	39.80	
EZN	1.22	305	iPn	09	30.80	0.4
EDC	1.23	9	ePn	09	31.00	0.3
KCT	1.26	27	ePg	09	30.70	-0.5
KGT	1.34	350	iPn	09	32.00	-0.5

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

? MAY 23, 1993 09h 09m 23.86± 1.79s
31.424 S ±40.7km 69.351 W ±21.2km
DEPTH = 110.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTBS	0.25	200	iPd	09	39.80	0.0
			S	09	51.50	
RTCB	0.48	98	ePd	09	41.00	0.1
			S	09	53.50	
RTLL	0.76	83	ePc	09	43.00	-0.1
			S	09	57.20	
RTCV	0.82	122	iPd	09	43.60	0.0
CFA	0.97	101	ePd	09	45.00	0.0
			S	10	01.00	

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

% MAY 23, 1993 09h 18m 32.73± 0.89s
40.810 N ± 6.8km 27.876 E ± 9.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

EDC	0.46	181	ePg	18	43.00	0.9
			eSg	18	51.00	
KGT	0.56	231	iPg	18	44.00	-0.2
			eSg	18	52.50	
KCT	0.67	147	iPg	18	45.00	-1.1
ISK	0.93	74	ePg	18	51.00	0.5
			eSg	19	03.50	
DMK	1.01	355	iPg	18	51.80	-0.1
			iSg	19	04.80	

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

% MAY 23, 1993 09h 26m 35.38± 0.66s
40.167 N ± 5.9km 29.446 E ± 5.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

YLV	0.40	352	iPg	26	43.70	0.0
			eSg	26	51.50	
EYL	0.67	54	ePg	26	48.50	-0.3
			eSg	27	00.50	
KCT	0.84	276	ePn	26	51.50	-0.1
DST	0.84	229	iPg	26	50.80	-0.9
BNT	1.18	280	ePn	26	57.50	0.0
ALT	1.22	155	ePn	26	58.80	0.6
EDC	1.22	279	ePn	26	59.00	0.8
KGT	1.66	281	iPn	27	04.50	-0.2

S.D = 0.6 on 8 of 8 obs.

MAY 23, 1993 09h 58m 31.45± 0.56s
35.341 N ± 5.6km 2.381 W ± 3.5km
DEPTH = 10.0km (geophysicist)
3.7mb (3 obs.)
STRAIT OF GIBRALTAR (385)
mbLg 3.2 (MDD).

EMEL	0.47	265	iPgc	58	40.90	-0.1
			eSg	58	47.00	
ENIJ	1.63	5	P	59	00.84	0.5
EGUA	1.77	328	ePn	59	02.00	-0.3
			eSn	59	30.00	
MAL	2.15	311	iPnc	59	07.00	-0.8
			iSg	59	34.00	
ECOG	2.16	334	iPnc	59	09.00	1.0
			eSn	59	39.00	
EHUE	2.47	356	iPnc	59	14.50	2.0
			eSn	59	45.80	
EALH	2.63	17	iPnc	59	15.50	0.8
			eSn	59	49.90	
OJEN	2.68	287	iP	59	17.00	1.6
ELUQ	2.69	326	ePn	59	16.20	0.6
			eSn	59	51.00	
EJIF	2.74	295	iPnc	59	14.50	-1.8
EPRU	2.82	306	P	59	19.12	1.7
PLAT	2.86	287	iP	59	19.00	1.1
LIJA	2.90	303	iP	59	19.50	0.8
IFR	2.91	232	iPn	59	19.00	0.2
			iSn	00	02.00	
ALJ	2.93	298	iP	59	19.50	0.4
EBAN	3.04	339	ePn	59	22.10	1.7
CNIL	3.15	290	iP	59	22.00	-0.1
EVIA	3.29	358	ePn	59	24.90	0.7
			eSn	00	05.50	
EHOR	3.39	318	iPnc	59	24.90	-0.5
			eSn	00	06.50	
ACU	3.54	26	iPnd	59	28.00	0.5
EVAL	4.17	304	P	59	35.29	-1.2
EVAL	4.17	304	P	59	35.11	-1.4
ECHE	4.39	14	ePn	59	41 00	1.3
AVE	4.64	245	ePn	59	40.00	-3.2X
			iSn	00	38.00	
GUD	5.48	346	iPnd	59	55.30	0.1
			eSn	00	58.00	
ETOR	5.48	3	iPnc	59	55.10	0.0
EPLA	5.55	329	iPnc	59	55.50	-0.7
EROQ	5.90	21	ePn	00	01.00	0.1
EBR	5.92	22	eP	00	04.00	2.8X
TIO	6.01	224	iPn	00	02.00	-0.7
			iSn	01	19.00	
ESEL	6.09	42	ePn	00	03.00	-0.6
			eSn	01	12.50	
EGRA	7.03	13	P	00	20.18	3.3X
ECRI	7.26	359	P	00	21.12	1.0
EPF	7.96	15	Pn	00	30.50	0.5
			Sn	01	56.70	
LPO	9.72	15	Pn	00	54.40	0.1
LFF	9.88	13	Pn	00	55.90	-0.6
CAF	10.16	18	Pn	01	00.40	0.0
RJF	10.39	15	Pn	01	02.60	-0.8
LMR	10.53	38	Pn	01	06.70	1.2
LRG	10.55	37	Pn	01	07.00	1.4
FRF	10.77	38	Pn	01	08.20	-0.5
MFF	11.38	8	Pn	01	15.70	-1.2
PGF	11.41	47	Pn	01	18.20	0.7
TCF	11.47	16	Pn	01	16.90	-1.4
MAF	11.49	17	Pn	01	17.00	-1.6
8GF	11.88	18	Pn	01	23.60	-0.2
LPF	12.72	4	Pn	01	33.30	-1.7
GRR	13.09	4	Pn	01	38.50	-1.4
LDF	13.35	7	Pn	01	42.20	-1.2
FLN	13.49	5	Pn	01	43.40	-1.8
ENN	16.55	19	eP	02	25.00	0.0
	1.0s		30.00nm			4.4mb
VBY	16.80	47	eP	02	27.50	-0.7
GEC2	17.96	36	Pn	02	42.80	0.0
	1.1s		1.83nm			3.1mb
KHC	18.10	36	eP	02	44.50	0.0
OHR	19.08	66	eP	02	57.50	1.0
EKA	20.00	359	P	03	07.00	0.2
	0.7s		2.90nm			3.7mb
VAY	20.43	66	eP	03	11.20	-0.2
KSP	20.55	35	eP	03	13.20	0.6

S.D. = 1.0 on 55 of 58 obs.

% MAY 23, 1993 10h 02m 34.48± 2.45s
35.363 N ±12.6km 2.205 W ±20.4km
DEPTH = 10.0km (geophysicist)
STRAIT OF GIBRALTAR (385)
mbLg 2.6 (MDD).

EMEL	0.62	264	iPgd	02	45.80	-1.1
			eSg	02	56.00	
EGUA	1.84	323	ePn	03	06.30	0.0
			eSn	03	33.00	
ECOG	2.20	330	ePn	03	13.80	2.0X
			eSn	03	40.50	
EJIF	2.86	293	ePn	03	22.00	1.0
			eSn	03	55.00	
EPRU	2.93	304	ePn	03	26.50	4.6X
			eSn	04	02.90	
IFR	3.04	234	iPn	03	24.00	0.4
			iSn	04	06.00	
EVIA	3.28	356	ePn	03	26.50	-0.5
			eSn	04	06.10	
EHOR	3.47	316	ePn	03	30.00	0.4
EVAL	4.28	303	ePn	03	41.00	-0.1

S.D. = 0.8 on 7 of 9 obs.

? MAY 23, 1993 10h 25m 39.17± 1.00s
39.148 N ± 8.0km 27.510 E ±13.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

IZM	0.77	195	ePg	25	54.30	0.0
			eSg	26	07.00	
DST	0.98	62	iPn	25	57.80	0.0
KCT	1.28	30	ePn	26	02.90	0.0
KGT	1.31	353	iPn	26	03.40	0.0

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

& MAY 23, 1993 10h 30m 10.19s
38.802 N 122.773 W
DEPTH = 2.3km
NORTHERN CALIFORNIA (36)
<GM-P>. MD 3.4 (GM). ML 3.6 (BRK), 3.5 (GS).

GCRM	0	05	123	P	30	11.38	-0.1
GACM	0.10	315	P	30	12.52	0.3
NMHM	0.17	141	P	30	13.68	0.0
MAC	0.25	171	P	30	15.64	0.4
NSHM	0.31	155	P	30	16.56	0.2
GDCM	0.37	265	P	30	17.98	0.5
FTR	0.41	228	P	30	19.35	0.9
NTYM	0	42	168	eP	30	19.49	0.9
NCFM	0.48	182	P	30	20.73	0.9
NTBM	0.57	193	P	30	22.18	0.7
SNT	0.67	158	P	30	25.89	2.4
GVR	0.68	140	P	30	23.63	-0.1
ZSP	0.95	154	iPd	30	30.90	1.9
			eS	30	46.05	
AGC	0.98	164	P	30	29.38	-0.1
BKS	1.02	155	ePd	30	29.86	-0.3
			ic	30	31.99	
			iS	30	45.94	
JPRM	1.03	167	P	30	32.00	1.6
CMCM	1.12	155	P	30	33.93	2.0
BGC	1.13	150	P	30	34.75	2.6
APRM	1.22	86	P	30	33.80	0.3
ORV	1 24	52	eP	30	33.04	-1.0
			e	30	41.00	
DOO	1 30	145	P	30	36.56	1.6
CPLM	1.33	151	P	30	38.02	2.6
AHRM	1 33	87	P	30	35.65	0.1
AFDM	1.41	84	P	30	37.08	0.2
CVAL	1.43	146	P	30	37.84	0.8
MSJ	1.46	151	P	30	37.70	0.1
STAN	1.47	161	eP	30	38.20	0.5
			iS	31	00.56	
MNR	1.50	143	P	30	38.04	-0.1
CSTL	1.53	139	P	30	39.49	0.9
JBMM	1.56	162	P	30	39.72	0.7
AFHM	1.56	81	P	30	39.81	0.7
JSMM	1.66	163	P	30	44.97	4.6
CMMM	1.68	143	P	30	42.97	2.2
MHC	1.71	148	eP	30	41.56	0.3
ARN	1.75	146	eP	30	41.58	-0.2
			eS	31	06.69	
JSTM	1.77	154	P	30	42.12	0.1
WDC	1.78	6	eP	30	43.37	1.2
MIN	1.79	30	eP	30	42.70	0.3
MRFM	1.85	107	P	30	44.29	1.0
GCC	1.87	161	eP	30	43.08	-0.4
JRGM	1.87	160	P	30	44.10	0.6
MCUM	1.89	115	P	30	42.95	-0.7
JRRM	1.93	154	P	30	44.59	0.2
HSPM	1.96	149	P	30	45.93	1.2
FOX	1.96	332	eP	30	53.69	9.0
GHS	2.00	148	P	30	46.36	1.0
CMB	2.03	111	ePn	30	44.40	-1.4
			ePgc	30	46.57	
			eS	31	12.46	
FHC	2.20	335	(P)	30	48.34	0.0
SAO	2 29	152	ePn	30	48.64	-0.9
LLA	2.62	146	eP	30	54.31	0.1
LBFM	2.63	15	(P)	30	53.62	-0.9
PRS	2.71	155	eP	30	55.12	-0.4
FRI	3.02	126	eP	31	01.99	2.1
MEMM	3.22	109	ePn	31	03.62	0.9
PHAM	3.51	147	(P)	31	06.17	-0.8
BONR	3.61	102	ePn	31	09.25	0.6
KVN	3.65	85	ePn	31	09.97	0.9
TNP	4.42	98	ePn	31	20.61	0.6
			ePg	31	30.15	
			ePg	31	36.11	
			eS	31	50.45	
ISA	4.65	131	ePn	31	23.10	0.0
TPNV	5.48	108	ePn	31	35.95	0.9
			ePg	31	38.97	
			eS	31	53.06	
GSC	5.91	124	ePn	31	41.46	0.4
			ePg	31	52.57	
PEC	6.67	136	eP	31	49.99	-1.7
DUG	7.83	77	(Pn)	32	07.88	-0.1
MSU	8.30	89	eP	32	15.19	0.5

64 obs. associated

% MAY 23, 1993 10h 34m 55.79± 1.81s
18.616 N ± 9.8km 120.318 E ±20.7km
DEPTH = 10.0km (geophysicist)
LUZON, PHILIPPINE ISLANDS (249)

PIP	0.41	135	iPd	35	04.00	-0.1
			iS	35	10.50	
SZP	1.07	173	ePd	35	17.00	1.1
BCP	2.20	173	eP	35	32.00	-1.1
			eS	35	56.00	
BBP	2.39	40	eP	35	35.70	0.1
QVP	4.02	170	eP	36	01.20	2.4X
TGY	4.53	172	eP	36	06.00	0.0

S.D. = 1.1 on 5 of 6 obs.

? MAY 23, 1993 10h 54m 40.22± 9.30s

23d 10h

40.034 N ±38.1km 24.060 E ±69.3km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

OUR	0.31	349	ePg	54	46.14	-0.4
PAIG	0.31	250	ePg	54	46.50	-0.2
			eSg	54	51.06	
SOH	0.95	326	ePg	54	58.14	-0.3
SRS	1.14	342	ePg	55	01.74	0.2
			eSg	55	17.06	
KNT	1.43	322	ePb	55	06.86	0.6
			eSb	55	26.34	

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

MAY 23, 1993 11h 04m 05.70± 0.40s
40.096 N ± 5.5km 20.672 E ± 3.5km
DEPTH = 22.8 ± 5.4 km
3.1mb (1 obs.)
GREECE-ALBANIA BORDER REGION (392)
ML 3.4 (TIR). MD 3.3 (ATH).

TPE	0.54	292	iPgd	04	17.50	1.0
			iSg	04	27.50	
SRN	0.56	248	iPgd	04	15.60	-1.2
			iSg	04	25.60	
IGT	0.62	205	ePg	04	17.26	-0.6
			eSg	04	28.26	
KEK	0.77	241	ePg	04	20.00	-0.4
KZN	0.87	76	ePg	04	20.70	-1.3
FNA	0.87	38	ePg	04	22.60	0.5
			eSg	04	36.10	
VLO	0.97	293	iPnd	04	25.40	1.6
			iSn	04	43.00	
OHR	1.02	5	iPg	04	23.90	-0.7
			i	04	26.40	
			i	04	38.60	
			i	04	41.30	
TIR	1.39	334	iPnc	04	33.20	3.4
			iSn	04	57.00	
LIT	1 39	89	ePb	04	30.42	0.5
			eSb	04	51.30	
GRG	1 57	56	ePb	04	33.42	0.9
			eSb	04	54.10	
PHP	1 60	354	ePn	04	36.00	3.2X
			iSn	05	02.50	
AGG	1.67	129	ePb	04	34.70	0.8
			eSb	04	58.30	
LACI	1.70	335	iPnc	04	36.50	2.2X
			iSn	05	04.00	
THE	1.83	72	ePn	04	35.94	-0.2
			eSn	05	00.53	
VAY	1.89	49	iPn	04	37.60	0.5
VLS	1.92	182	ePn	04	40.80	3.3X
SKO	1.96	17	ePn	04	40.00	1.9
			i	04	42.00	
			iSn	05	06.50	
KNT	2.00	57	ePn	04	38.42	-0.3
LCI	2.10	277	P	04	39.20	-0.8
SOH	2.17	70	ePn	04	41.82	0.7
PAIG	2.32	93	ePn	04	42.70	-0.4
			eSn	05	13.22	
SRS	2.45	64	iPn	04	45.22	0.2
			eSn	05	15.70	
OUR	2.55	84	ePn	04	46.62	0.2
BRT	2.76	288	P	04	50.60	1.1
BAI	3.07	291	P	04	51.00	-2.9X
CZI	3.61	257	P	05	02.90	1.3
VLI	3.81	151	ePn	05	06.10	1.7
MGR	3.92	272	P	05	06.60	0.6
SOI	4.12	242	P	05	08.60	-0.2
SGO	4.13	278	P	05	09.30	0.4
MEU	5.40	238	P	05	24.20	-2.8X
SDI	5.44	289	P	05	28.10	0.6
MNS	6.44	293	P	05	47.30	5.6X
ARV	6.70	303	P	05	44.20	-1.1
VBY	6.71	325	ePn	05	45.00	-0.4
			eSn	07	03.00	
CEY	7.27	323	e(Pn)	05	52.40	-0.7
			e(Sn)	07	15.50	
VOY	7.73	322	e(Pn)	05	58.30	-1.4
			e(Sn)	07	26.00	
CTI	8.88	315	P	06	13.50	-2.3
NB2	21.77	348	P	08	55.40	-2.1

0.6s 0.50nm 3.1mb
S.D. = 1.2 on 34 of 40 obs.

MAY 23, 1993 11h 17m 00.79± 5.65s
35.149 N ±43.5km 2.339 W ±23.7km
DEPTH = 25.7 ± 6.4 km
STRAIT OF GIBRALTAR (385)
mbLg 3.3 (MDD).

EMEL	0.53	287	iPgd	17	10.90	-0.5
			eSg	17	22.00	
ENIJ	1.82	3	ePn	17	30.20	-0.7
			eSn	17	56.40	
EGUA	1.95	330	iPnc	17	31.80	-1.0
			eSn	18	00.30	
MAL	2.30	314	ePn	17	37.00	-0.8
			iSg	18	04.00	
ECOG	2.34	335	iPnc	17	39.90	1.4
			eSn	18	10.50	
EALH	2.80	15	iPnd	17	45.20	0.3
EJIF	2.86	298	ePn	17	45.30	-0.4
			eSn	18	20.50	
ELUO	2.87	328	ePn	17	47.00	1.2
PLAT	2.95	290	eP	17	51.00	4.0X
LIJA	3.04	306	eP	17	50.00	1.6
ALJ	3.06	301	eP	17	50.00	1.4
EVIA	3.49	358	ePn	17	55.40	0.7
EHOR	3.55	320	ePn	17	54.60	-1.0
			eSn	18	40.10	
EVAL	4.31	306	ePn	18	05.00	-1.3
ETOR	5.67	2	ePn	18	25.20	-0.4
GUD	5.67	346	ePnd	18	24.90	-0.8

S.D. = 1.1 on 15 of 16 obs.

& MAY 23, 1993 12h 06m 13.28s
34.501 N 116.512 W
DEPTH = 5.0km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 3.2 (PAS). 3.0 (GS).
Felt.

SSK	1.02	254	ePc	06	31.90	-1.2
			eS	06	45.13	
PLM	1.18	194	ePc	06	34.86	-1.1
			eS	06	50.21	
ISA	1.98	306	ePn	06	45.06	-2.9
			ePg	06	50.93	
			eS	07	14.95	
GLA	2.01	135	ePn	06	45.37	-3.0
			ePg	06	50.12	
ABL	2.26	280	ePn	06	49.84	-2.2
TPNV	2.45	5	ePn	06	53.06	-1.7
BCH	3.02	284	ePn	07	00.84	-1.9
PHAM	3.45	294	(P)	07	06.99	-1.8
TNP	3 62	351	ePn	07	08.79	-2.6
MEMM	3.72	329	ePn	07	11.09	-1.5
			ePg	07	23.42	
BONR	3.74	338	ePn	07	11.71	-1.5
			ePg	07	23.10	
MSU	5.31	40	ePn	07	33.90	-1.6
DUG	6.40	26	(Pn)	07	47.49	-3.2
			ePg	08	13.74	
SRU	6.65	44	ePn	07	52.37	-1.9

14 obs. associated

& MAY 23, 1993 12h 25m 08.39s
34.248 N 116.429 W
DEPTH = 3.5km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 2.8 (PAS).

PEC	0.70	240	ePc	25	21.56	-0.9
			eS	25	30.00	
PLM	0.96	202	ePd	25	26.34	-1.1
			eS	25	38.59	
SSK	1.05	268	eP	25	27.46	-1.4
			eS	25	41.97	
GSC	1.10	344	eP	25	28.56	-1.1
			eS	25	45.13	
GLA	1.79	131	ePn	25	38.14	-2.3
			eS	26	03.90	
ISA	2.19	311	ePn	25	47.13	0.9
TPNV	2.70	3	(P)	25	52.60	-1.0
TNP	3.88	351	(Pn)	26	09.26	-1.1
MEMM	3.97	330	(Pn)	26	13.01	1.6
BONR	4.00	338	(Pn)	26	10.07	-2.1

10 obs. associated

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* MAY 23, 1993 12h 36m 11.32± 4.90s
16.045 S ±12.5km 174 353 W ±13.6km
DEPTH = 140.7 ± 42.3 km

4.8mb (11 obs.)
TONGA ISLANDS (173)

DZM	19.11	249	iPc	40	25.90	0.0
KUZ	22.43	201	P	40	59.90	1.0
URZ	23.37	197	P	41	07.30	-0.8
NOZ	23.46	195	eP	41	09.30	0.3
WLZ	23.48	200	P	41	09.90	0.7
MNG	26.03	198	eP	41	32.00	-1.0
ARMA	34.23	239	iPd	42	45.70	0.0
	0.6s		7.00nm			4.6mb
QLP	39.82	248	iPd	43	32.60	0.1
TOO	41.35	231	iPd	43	45.40	0.5
	0.8s		22.00nm			4.9mb
STK	42.92	240	iPc	43	58.10	0.3
	0.6s		9.50nm			4.6mb
			e	45	47.20	
WB2	48.79	257	eP	44	43.70	-0.5
	0.6s		23.60nm			5.1mb
			i	46	07.00	
WRA	48.80	257	P	44	44.70	0.4
	0.7s		6.90nm			4.5mb
ASPA	49.04	252	iPc	44	45.80	-0.4
	0.9s		39.60nm			5.2mb
			i	46	07.60	
MTN	52.77	266	iPd	45	15.00	0.7
	0.7s		89.00nm			5.7mb
KNA	54.55	262	eP	45	27.50	0.2
MEEK	62.72	248	eP	46	22.50	-1.3
SPA	74.06	180	iPc	47	32.40	-0.9
	1.0s		7.00nm			4.4mb
SVW	78.34	9	eP	47	56.70	-0.4
PMR	79.93	12	eP	48	05.20	-0.4
	0.9s		15.00nm			4.7mb
TTA	80.02	8	eP	48	06.60	0.5
FBA	83.20	11	eP	48	22.10	-0.4
IMA	83.33	8	eP	48	23.60	0.3
	0.9s		7.20nm			4.5mb
TIK	95.37	345	iPd	49	16.00	-4.1X
	1.6s		15.00nm			5.1mb
			e	50	52.00	
NRI	107.55	338	ePdiff	50	14.00	-0.7
	2.0s		21.00nm			6.0mb X
KAF	131.72	347	iPKP	55	07.80	-0.8
	0.4s		3.00nm			
NUR	133.51	347	ePKP	55	10.80	-1.3
	0.6s		6.10nm			
NB2	134.89	356	PKP	55	13.40	-1.4
	0.7s		1.40nm			
CLL	144.33	352	iPKPc	55	30.20	-1.8
	0.8s		17.00nm			
BRG	144.62	351	iPKPc	55	31.20	-1.4
	0.8s		10.00nm			
SPC	144.86	343	iPKP	55	33.60	0.3
MOX	145.15	353	ePKP	55	33.10	-0.4
	1.2s		29.00nm			
PRU	145.38	350	iPKPc	55	33.80	-0.1
	0.9s		32.30nm			
			e	56	20.50	
SNF	145.60	2	iPKPc	55	34.42	0.2
DOU	146.03	1	PKPc	55	35.90	0.9
			e	56	22.50	
GRF	146.14	353	iPKPc	55	36.70	1.5
KHC	146.37	351	PKP	55	37.10	1.5
	1.0s		8.90nm			
			e	56	23.00	
WLF	146.47	359	iPKPc	55	37.65	2.0
	1.2s		35.90nm			
			e	56	23.00	
ZST	146.58	346	ePKP	55	37.40	1.5
FLN	146.99	7	iPKPc	55	38.10	1.6
	0.8s		38.80nm			
LDF	147.20	7	iPKPc	55	36.00	-0.9
	0.7s		19.95nm			
GRR	147.31	8	iPKPc	55	39.20	2.1
	0.8s		52.90nm			
LPF	147.63	8	iPKPc	55	40.20	2.6X
	0.8s		65.30nm			
FUR	147.64	353	iPKPc	55	40.70	3.0X
CDF	147.69	358	iPKPc	55	40.60	2.8X
	0.9s		26.85nm			
HRI	147.88	308	iPKPc	55	42.40	3.8X
HAU	148.12	359	iPKPc	55	41.70	3.3X
	0.9s		28.35nm			
BSF	148.29	359	iPKPc	55	41.90	3.1X
	0.6s		5.30nm			
HMDT	148.47	306	iPKPc	55	43.80	4.4X

HYF	148.77	4	ePKP	55	43.60	4.1X
LOR	148.83	2	iPKPc	55	43.60	4.0X
	1.0s	28.80nm				
RBL	148.98	349	PKP	55	43.20	3.3X
PTJ	149.01	346	ePKP	55	43.90	3.9X
SSF	149.02	3	iPKPc	55	44.20	4.3X
	1.0s	37.80nm				
LBF	149.12	2	iPKPc	55	44.20	4.1X
	0.9s	23.25nm				
MFF	149.15	8	iPKPc	55	44.10	4.0X
	0.7s	10.45nm				
AVF	149.29	3	iPKPc	55	44.40	4.1X
	0.9s	11.80nm				
SMF	149.45	2	ePKP	55	45.00	4.5X
	0.9s	10.95nm				
BGF	149.49	4	iPKPc	55	45.10	4.5X
	0.9s	22.60nm				
VBY	149.54	347	ePKP	55	39.00	-1.7
			e	55	45.90	
			e	56	33.50	
CTI	149.67	352	PKP	55	45.40	4.4X
LSF	149.69	6	iPKPc	55	45.30	4.4X
	0.9s	34.70nm				
TCF	149.71	5	iPKPc	55	45.60	4.6X
	1.1s	24.40nm				
MAF	149.80	4	iPKPc	55	46.10	5.0X
	1.1s	34.70nm				
MBH	149.91	302	iPKPc	55	47.10	5.3X
VAI	150.15	356	PKP	55	46.50	5.0X
RSL	150.44	359	PKP	55	48.02	5.8X
LPL	150.61	358	iPKPc	55	48.90	6.3X
	0.8s	19.05nm				
LPG	150.62	358	iPKPc	55	49.10	6.4X
	0.8s	22.30nm				
RJF	150.62	6	iPKPc	55	47.80	5.5X
	1.3s	24.90nm				
LSD	150.65	358	PKP	55	48.81	6.1X
SHO	150.81	335	ePKP	55	48.50	5.8X
SSB	150.84	2	PKP	55	48.67	6.0X
LFF	150.90	7	ePKP	55	48.50	5.8X
	0.9s	25.55nm				
RSP	150.95	358	PKP	55	47.94	5.0X
CAF	151.05	5	ePKP	55	49.00	6.0X
BOB	151.19	354	PKP	55	49.20	5.9X
RRL	151.20	358	PKP	55	49.91	6.4X
LPO	151.20	7	iPKPc	55	49.00	5.8X
	0.7s	9.25nm				
PCP	151.49	356	PKP	55	48.99	5.3X
PZZ	151.60	358	PKP	55	49.45	5.4X
ROB	151.78	357	PKP	55	49.72	5.6X
OHR	151.79	335	iPKP	55	50.70	6.4X
FIN	151.84	356	PKP	55	49.50	5.3X
STV	151.86	357	PKP	55	49.36	5.1X
ARV	151.94	349	PKP	55	51.00	6.6X
IMI	152.16	357	PKP	55	50.82	6.1X
SBF	152.23	357	iPKPc	55	51.20	6.4X
	0.7s	10.70nm				
FRF	152.56	358	ePKP	55	52.10	6.9X
LRG	152.67	359	iPKPc	55	52.60	7.3X
	0.9s	8.70nm				
LMR	152.79	359	iPKPc	55	52 60	7.1X
	1.0s	11.00nm				
PGF	153.43	354	iPKPc	55	54.00	7.4X
	0.8s	6.45nm				

S.D. = 1.0 on 41 of 91 obs.

MAY 23, 1993 12h 42m 31.53± 0.41s
37.491 N ± 4.0km 137.458 E ± 4.3km
DEPTH = 40.5 ± 5.8 km
4.7mb (17 obs.)
NEAR WEST COAST OF HONSHU, JAPAN(226)

MTMJ	0.95	163	P	42	48.00	-0.6
			eS	43	02.00	
MAT	1.12	147	iPd	42	50.80	-0.2
			iS	43	07.10	
NIIJ	1.25	101	P	42	52.00	-0.9
			S	43	10.10	
CHJJ	1.90	139	P	43	03.30	1.3
IIDJ	2.04	170	P	43	05.10	0.9
YAMJ	2.15	71	P	43	04 60	-1.2
TSRJ	2.28	212	P	43	07.60	0.0
			S	43	33.30	
KAKJ	2.53	120	eP	43	11.20	0.2
WKYJ	3.60	205	iP+	43	26.10	-0.2
OFUJ	3.67	63	P	43	26.80	-0.5
AOMJ	3.81	36	P	43	28.70	-0.6
YONJ	3.96	236	iP+	43	30.80	-0.6
TKSJ	4.47	219	P	43	38.40	-0.2
TKSJ	4.47	219	P	43	39.00	0.4
SHK	4.87	234	iP	43	44.70	0.4
	1.0s	480.00nm				
MRRJ	5.66	28	eP	43	54.50	-0.8
SHNJ	6.16	239	P	44	03.10	0.8
			eS	45	16.00	
HOOJ	6.63	41	eP	44	10.60	1.7
KUMJ	7.35	230	P	44	19.00	-0.1
ASAJ	7.70	29	eP	44	25.40	1.5
KUSJ	7.88	42	eP	44	26.10	-0.3
KAGJ	8.31	223	P	44	32.60	0.2
YSS	10.28	21	eP	45	00.00	0.5
Z	12s	0.50um				
SSE	14.88	249	P	46	04.20	3.5X
	1.5s	27.00nm			4.3mb	
Z	16s	0.40um			5.2Msz	
N	14s	0.70um				
E	14s	0.40um				
CIT	22.17	318	eP	47	27.00	1.6
YAK	25.02	351	eP	47	51.50	-1.4
	1.5s	50.00nm			4.9mb	
BOD	25.47	331	eP	47	55.10	-2.0
	1.0s	12.00nm			4.4mb	
LZH	26.88	277	Pd	48	09.80	-0.8
	1.5s	127.00nm			5.3mb	
Z	15s	0.63um			4.3MszX	
E	15s	0.51um				
			pP	48	12.50	10kmX
			eS	53	00.00	
ZAK	27.52	309	eP	48	15.50	-0.5
	1.5s	15.00nm			4.4mb	
Z	13s	0.78um			4.5MszX	
E	14s	0.77um				
			eS	52	49.00	
KMI	31.94	257	Pc	48	55.00	-1.0
	1.6s	30.00nm			4.9mb	
			pP	49	01.50	23kmX
ELT	38.37	311	eP	49	48.60	-1.6
	2.0s	26.00nm			4.7mb	
SVE	52.71	318	ePd	51	43.50	-0.5
	2.1s	20.00nm			4.7mb	
Z	16s	0.50um			4.7MszX	
E	16s	0.20um				
INK	55.41	27	eP	52	07.00	3.4X
MBC	56 97	16	eP	52	15.50	0.7
WB2	57.20	183	iPd	52	16.20	-0.7
	0.8s	14.00nm			5.1mb	
WRA	57.20	183	P	52	16.50	-0.4
	0.6s	5.80nm			4.8mb	
GBA	58.12	263	P	52	23.10	-0.5
	1.0s	2.50nm			4.3mb	
ASPA	60.92	184	iPc	52	42.40	-0.2
	0.9s	10.30nm			5.0mb	
GRS	68.17	304	eP	53	30.00	0.1
	1.5s	30.00nm			5.1mb	
NB2	72.51	336	P	53	54.60	-1.1
	0.9s	4.10nm			4.4mb	
LRM	75.99	43	eP	54	15.50	-0.8
SPC	77.37	323	eP	54	24.90	1.1
KSP	78.01	326	eP	54	27.00	-0.1
	0.8s	27.00nm			5.3mb	
			ic	55	30.10	
BRG	79.01	327	eP	54	33.00	0.4
BRG	79.01	327	eP	54	33.50	0.9
CLL	79.09	328	eP	54	33.00	0.0
PRU	79.40	327	eP	54	35.50	0.8
KHC	80.46	326	eP	54	41.50	1.0
GEC2	80.62	326	P	54	41.60	0.2
	0.8s	1.84nm			4.1mb	
			e	55	34.20	
GRF	81.05	328	ePc	54	44.70	1.2
	1.2s	15.00nm			4.8mb	
PGD	85.26	324	P	55	07.10	1.7
PTS	90.51	319	P	55	24.81	-5.7X
	0.4s	492.70nm			7.2mb	X
BCAO	109.70	292	iPdiff	56	47.20	-10.2X
	0.6s	14.00nm				
LPB	149.28	54	ePKP	02	10.00	-3.9X
CNCB	149.56	54	PKP	02	22 00	7.5X

S.D. = 0.9 on 49 of 55 obs.

? MAY 23, 1993 13h 47m 31.27± 6.67s
15.669 N ±14.3km 59.977 W ±61.0km
DEPTH = 22.5 ± 6.2 km
LEEWARD ISLANDS (92)

DEG	1.22	302	eP	47	53.00	-0.1
CRM	1.28	225	eP	47	54.10	0.2
MGG	1.31	281	eP	47	54.00	-0.3
MVM	1.42	219	eP	47	55.80	0.0
FDF	1.47	231	eP	47	56.40	-0.1
BIM	1.56	223	eP	47	57.90	0.0
PAG	1.68	283	eP	48	00.00	0.3
MGH	2.39	296	eP	48	10.00	0.1

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

• MAY 23, 1993 14h 35m 07.13± 2.49s
40.031 N ± 9.2km 24.095 E ±19.2km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

OUR	0.32	344	iPg	35	12.72	-0.9
			eSg	35	17.90	
PAIG	0.34	252	iPg	35	13.24	-0.8
			eSg	35	17.52	
SOH	0.97	325	ePg	35	25.40	-0.2
			eSg	35	39.44	
THE	1.05	305	ePg	35	26.40	-0.5
			eSg	35	40.56	
SRS	1.15	341	ePg	35	29.00	0.3
			eSg	35	44.90	
LIT	1.23	274	ePb	35	30.60	0.5
			eSb	35	46.60	
KNT	1.45	322	iPb	35	33.44	0.0
			eSb	35	53.52	
GRG	1.59	306	ePb	35	35.70	0.3
AGG	1.70	234	iPb	35	36.88	-0.1
VAY	1.73	319	ePn	35	38.20	0.8
FNA	2.21	291	ePn	35	45.10	0.7

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

• MAY 23, 1993 15h 06m 38.15± 0.95s
39.277 N ±14.1km 74.121 E ±13.4km
DEPTH = 33 0km (normol)
4.5mb (10 obs.)
SOUTHERN XINJIANG, CHINA (321)

QUE	10.81	215	eP	09	13.00	-0.9
NDI	10.87	165	eP	09	15.00	0.5
	0.5s	12.68nm				5.4mb
MAIO	11.95	260	eP	09	25.00	-4.2X
			eS	11	35.00	
GKN	14.24	139	P	09	59.00	-0.6
KKN	14.74	138	P	10	02.80	-3.5X
	0.6s	30.00nm				4.9mb
DMN	14.80	139	P	10	06.40	-0.7
	0.8s	25.00nm				4.6mb
GUN	14.97	136	P	10	08.20	-1.1
PKI	14.99	138	P	10	08.40	-1.2
	0.6s	20.00nm				4.6mb
HYB	22.12	169	eP	11	33.50	1.0
LZH	23.69	88	eP	11	43.00	-4.9X
GBA	25.74	173	P	12	09.70	2.4
	0.8s	2.00nm				3.8mb
GEC2	43.41	303	P	14	39.90	0.6
	0.7s	0.44nm				3.3mb X
		e		14	47.50	
		e		27	43.00	
NB2	43.71	321	P	14	40.60	-0.9
	0.7s	1.00nm				3.7mb
EKA	52.04	315	P	15	50.00	3.6X
	1.0s	3.40nm				4.3mb
BCAO	60.94	250	ePc	16	49.10	-1.3
	0.5s	3.00nm				4.7mb
MBC	64.44	4	eP	17	16.50	3.7X
	0.6s	3.00nm				4.6mb
INK	70.75	11	eP	17	58.00	5.5X
WRA	81.44	124	P	19	10.40	17.0X
	0.8s	0.80nm				
WB2	81.45	124	eP	18	55.60	2.2
	0.7s	1.60nm				4.1mb

S.D. = 1.4 on 12 of 19 obs.

MAY 23, 1993 15h 15m 36.87± 0.39s
51.072 N ±10.1km 178.267 W ± 5.1km
DEPTH = 33.0km (normol)
4.6mb (18 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS. (7)

ADK	1.28	50	eP	15	58.29	-0.2
			eS	16	13.07	
SMY	5.01	292	e(P)	16	56.30	4.7X
SVW	16.05	43	eP	19	21.63	0.1

23d 15h

0.8s 12.12nm 4.1mb
TTA 16.85 37 eP 19 35.90 4.3X
PMS 18.79 46 e(P) 19 57.30 1.8
IMA 19.54 30 eP 20 05.30 0.9
1.1s 10.50nm 4.0mb
FBA 20.98 37 eP 20 20.90 1.7X
MAT 34.07 262 eP 22 21.00 0.9
NEW 38.68 69 eP 22 59.79 0.9
0.8s 7.50nm 4.5mb
TNP 44.15 82 (P) 23 44.95 0.9
0.6s 1.58nm 4.0mb
DUG 45.61 77 eP 23 55.92 0.2
0.7s 2.40nm 4.2mb
BW06 46.08 72 iPd 23 59.62 0.2
0.6s 2.65nm 4.3mb
e 24 06.84
DAU 46.44 76 eP 24 02.60 0.2
PLM 47.37 87 eP 24 08.27 -1.4
SRU 47.67 77 eP 24 10.78 -1.3
PV09 48.91 77 eP 24 21.10 -0.6
GOL 50.45 73 ePd 24 33.67 0.2
0.7s 2.90nm 4.4mb
LZH 55.79 287 eP 25 12.40 -0.6
1.2s 15.00nm 4.9mb
JSC 68.21 62 ePc 26 35.19 -0.8
SGS 69.43 63 eP 26 43.36 -0.1
GUN 72.28 292 P 27 01.20 -0.1
KKN 72.72 293 P 27 03.60 -0.1
0.8s 36.00nm 5.4mb
PKI 72.81 293 P 27 04.20 -0.2
1.0s 36.00nm 5.3mb
GKN 72.94 293 P 27 04.80 -0.1
1.0s 44.00nm 5.4mb
DMN 72.96 293 P 27 05 40 0.3
1.0s 37.00nm 5.3mb
KBA 81.72 352 i(P) 27 53.70 0.5
0.9s 6.60nm 4.7mb
WRA 82 03 224 P 27 56.30 1 5
0.6s 0.30nm 3.5mb X
SSF 82 24 359 eP 27 56.00 0 3
0.8s 2.95nm 4.4mb
AVF 82.51 359 eP 27 57.10 0.0
0.9s 3.75nm 4.5mb
SMF 82 65 359 eP 27 57.70 -0.1
MAF 83.09 359 eP 28 00.20 0.1
1.0s 4.60nm 4.5mb
CAF 84.38 360 eP 28 06.20 -0.5
1.2s 7.45nm 4.7mb
LPO 84.63 0 eP 28 07.10 -0.8
1.3s 14.80nm 5.0mb
SBF 85.32 356 eP 28 10.40 -1.1
FRF 85.65 356 eP 28 12.10 -1.0
S.D. = 0.8 on 32 of 35 obs.

% MAY 23, 1993 15h 49m 27.67± 1.60s
44.392 N ± 7.2km 6.865 E ±11.8km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.1 (GEN).

PZZ 0.20 56 P 49 32.52 0.3
S 49 35.73
STV 0.36 114 P 49 35.23 0.1
S 49 39.71
ENR 0.43 112 P 49 36.42 -0.1
S 49 41.86
RRL 0.53 354 P 49 38.33 -0.2
S 49 45.65
BHB 0.53 32 P 49 38.25 -0.2
S 49 45.43
ROB 0.73 97 P 49 41.59 -0.4
S 49 50.97
RSP 0.81 20 P 49 43.31 -0.1
IMI 0.88 123 P 49 44.74 0.1
S 49 56.32
FIN 0.98 100 P 49 46.51 0.2
LSD 1.09 11 P 49 48.63 0.4
S 50 02.25
PCP 1.21 82 P 49 50.29 0.0
S 50 05.62
S.D. = 0.3 on 11 of 11 obs.

MAY 23, 1993 16h 18m 30.74± 0.23s
46.564 N ± 5.0km 153.267 E ± 3.2km
DEPTH = 20.8km (8 depth phases)
5.1mb (86 obs.) 4.9Msz (11 obs.)
KURIL ISLANDS (221)

KUR 4.00 253 iPnc+ 19 34.00 1.8
Z 14s 16.20um
N 14s 16.20um
E 14s 16.20um
iS 20 24.00
SKR 4.52 24 ePn 19 38.60 -1.0
Z 14s 8.50um
N 14s 5.30um
E 14s 15.10um
SHO 5.31 242 ePn 19 48.50 -2.2
YSS 7.26 277 iPnc+ 20 21.40 3.2X
Z 15s 8.00um
N 15s 1.60um
E 15s 5.80um
PET 7.34 26 ePn 20 18.00 -1.3
Z 20s 2.70um
N 18s 4.40um
E 20s 5.70um
OKH 9.64 320 ePn 20 51.00 -0.2
Z 14s 5.10um
MGD 13.64 355 eP+ 21 44.00 -1.2
Z 16s 3.30um
N 16s 2.70um
E 16s 2.00um
eS 24 21.00
MAT 15.05 234 eP 21 59.00 -4.8X
1.4s 16.28nm 4.2mb
Z 18s 1.72um 5.0MszX
eS 24 53.00
VLA 15.54 265 iPc 22 13.00 2.9X
1.8s 97.00nm 4.7mb
Z 15s 0.60um 4.7Msz
N 16s 0.70um
E 12s 0.50um
e 25 05.00
SEY 16.38 359 eP 22 20.00 -0.7
Z 14s 5.20um
YAK 20.51 327 eP 23 09.50 -0.3
Z 17s 1.60um 4.5MszX
N 16s 2.80um
E 25s 3.10um
e 23 31.00 110kmX
ePPP 23 47.00
e 27 22.00
i 34 36.00
ILT 25.78 24 eP+ 24 00.50 -0.9
2.0s 165.00nm 5.3mb
Z 16s 1.00um 4.4MszX
N 16s 0.80um
E 16s 1.10um
i 24 45.00 230kmX
eS 28 28.00
eSS 29 29.00
BOD 26.10 310 iPd 24 03.70 -0.8
1.4s 34.00nm 4.8mb
CIT 26.20 297 eP 24 04.50 -1.0
BJI 27.58 270 eP 24 18.00 -0.2
2.0s 124.00nm 5.3mb
Z 16s 2.63um 4.9MszX
E 15s 1.84um
ePP 25 09.00
eS 29 04.00
TIK 27.66 344 eP 24 16.00 -2.6X
2.0s 41.00nm 4.8mb
Z 15s 3.00um 5.0MszX
i 24 22.00 21km
e 25 07.00
e 25 17.00
e 27 32.00
SSE 29.13 249 P+ 24 32.00 -0.2
8.0s 0.50nm 2.3mb X
Z 20s 0.90um 4.4Msz
N 12s 0.30um
E 14s 0.40um
S 29 20.00
sS 29 48.00
IRK 31.85 299 eP 24 54.20 -1.9
1.5s 170.00nm 5.7mb
Z 14s 3.09um 5.1MszX
N 13s 0.46um
E 15s 3.08um
e 26 12.20 426kmX
TTA 32.49 41 eP 25 01.21 -0.5
1.0s 9.94nm 4.7mb
SVW 32.53 45 eP 25 01.61 -0.4
1.1s 34.77nm 5.2mb
ZAK 32.85 295 iPc 25 04.00 -0.8

1.6s 33.00nm 5.0mb
Z 16s 6.34um 5.4MszX
N 15s 2.11um
E 17s 6.83um
e 27 53.00
IMA 33.90 36 eP 25 13.02 -0.9
0.9s 6.43nm 4.6mb
MOY 33.98 298 eP 25 13.00 -1.6
BRW 34.08 26 eP 25 15.18 -0.1
CP2 34.17 44 (P) 25 16.84 0.4
SLKM 35.18 46 eP 25 23.15 -1.7
PMS 35.47 44 eP 25 26.20 -1.1
1.0s 20.00nm 5.0mb
PMR 35.66 44 eP 25 27.89 -1.0
1.2s 24.92nm 5.0mb
FBA 36.24 38 eP 25 32.94 -0.8
0.8s 12.05nm 4.8mb
KLU 37.20 44 eP 25 41.18 -0.8
LZH 38.00 272 iPc 25 50.00 0.9
1.5s 121.00nm 5.5mb
Z 17s 1.32um 4.8MszX
E 13s 0.62um
pP 25 55.00 17km
PP 27 17.00
eS 31 40.00
sS 31 46.00
NRI 38.78 329 iPd 25 53.70 -1.3
2.0s 60.00nm 5.0mb
Z 18s 2.50um 5.1Msz
N 14s 0.80um
E 18s 2.40um
e 27 28.00 525kmX
e 28 07.00
eS 31 56.00
eSS 34 27.00
BALM 38.97 44 eP 25 56.34 -0.5
BAG 40.48 233 eP 26 08.00 -1.9
INK 41.75 32 eP 26 21.50 2.0
0.9s 4.00nm 4.1mb
ELT 42.22 305 iP 26 22.80 -0.7
Z 15s 2.10um 5.1MszX
e 28 21.00
e 36 23.00
SIT 43.41 49 (P) 26 34.40 1.2
1.3s 19.86nm 4.7mb
MBC 44.74 20 eP 26 44.50 0.8
1.0s 6.00nm 4.5mb
KMI 45.31 260 Pc+ 26 49.50 0.3
2.0s 130.00nm 5.5mb
Z 15s 1.20um 5.0MszX
N 15s 1.30um
pP 27 03.00 51kmX
sP 27 07.50
PcP 28 29.00
PP 28 37.50
S 33 33.00
sS 33 54.00
ScS 36 44.00
CTB 46.49 222 ePd 27 03.00 4.8X
PRZ 51.66 294 iPc 27 38.00 -0.1
1.6s 40.00nm 5.1mb
Z 15s 2.40um 5.3MszX
CHTO 52.18 257 iPc 27 42.40 0.3
0.9s 29.62nm 5.2mb
FRU 53.83 297 eP 27 52.00 -2.1
1.4s 30.00nm 5.1mb
Z 17s 3.00um 5.4MszX
N 17s 3.00um
E 17s 2.30um
e 29 02.00 318kmX
GUN 55.12 275 P 28 03.80 -0.4
ARU 55.22 318 eP 28 01.00 -3.1X
Z 16s 1.50um 5.2MszX
N 16s 0.50um
KKN 55.61 276 P 28 07.60 0.1
PKI 55.66 275 P 28 07.80 -0.2
DMN 55.84 275 P 28 09.30 0.0
GKN 55.92 276 P 28 09.60 -0.1
DAG 56.84 358 iPd 28 14.10 -1.4
1.0s 28.00nm 5.2mb
NEW 57.21 53 eP 28 19.82 1.3
1.2s 27.87nm 5.2mb

23d 16h

SDF 59.48 339 iP 28 33.30 -0.8
ORV 59.77 63 eP 28 37.34 0.9
NDI 60.54 282 iPc 28 42.00 0.2
LRM 61.22 53 eP 28 46.10 -0.5
FCC 61.36 33 eP 28 54.00 7.1X
CMB 61.39 64 eP 28 47.75 0.2
0.8s 6.82nm 4.8mb
MEMM 62.52 63 (P) 28 57.12 2.2
BONR 62.73 63 eP 28 58.94 2.2
TNP 63.31 62 eP 29 01.22 0.7
1.0s 14.70nm 5.1mb
HVU 63.59 56 eP 29 01.83 -0.4
KAF 63.66 335 iP 29 00.90 -1.3
0.6s 11.10nm 5.2mb
PUL 64.25 332 ePd 29 05.00 -1.1
e 37 44.00
DUG 64.58 58 eP 29 08.01 -0.8
1.0s 14.14nm 5.1mb
TPNV 64.62 62 eP 29 09.81 0.7
1.0s 19.56nm 5.2mb
MOS 64.66 326 eP 29 08.00 -0.7
Z 13s 1.20um 5.3MszX
e 29 21.00 45kmX
BW06 64.77 54 eP 29 08.50 -1.5
1.3s 23.25nm 5.2mb
FRB 65.19 19 eP 29 10.50 -1.6
1.0s 12.00nm 5.0mb
DAU 65.35 57 eP 29 13.13 -0.8
GSC 65.35 64 eP 29 15.25 1.6
NUR 65.42 335 iP 29 12.50 -1.1
0.4s 10.20nm 5.3mb
OBN 65.52 326 eP 29 12.00 -2.3
1.2s 40.00nm 5.4mb
ARUT 65.78 60 eP 29 16.07 -0.4
EMUT 65 99 57 eP 29 18.93 1.0
PEC 66.04 66 eP 29 18.65 0.6
1.0s 14.12nm 5.1mb
MSU 66.06 59 eP 29 18.25 -0.1
OUE 66.39 289 eP 29 21.40 0.9
ULM 66.59 41 eP 29 23.00 1.7
SRU 66.63 57 eP 29 20.77 -1.2
ASH 66.64 301 eP 29 22.40 0.6
RSSD 66.86 50 eP 29 21.79 -1.6
0.9s 17.79nm 5.2mb
KAT 67.03 303 eP 29 26.00 1.8
eS 38 23.00
MAIO 67.05 299 iPc 29 24.00 -0.5
eS 38 39.00
HYB 67.11 271 eP 29 24.00 -1.0
AKU 67.89 356 iP 29 31.00 1.8
0.8s 17.91nm 5.3mb
UPP 67.92 338 iP 29 28.40 -1.0
GLA 68.06 65 eP 29 31.79 0.9
WB2 68.37 199 iPc 29 30.50 -2.2
0.8s 12.00nm 5.1mb
i 29 35.10 15km
WRA 68.37 199 P 29 30.80 -1.9
0.8s 3.30nm 4.5mb
NB2 68.44 341 P 29 31.70 -1.1
0.7s 24.00nm 5.5mb
GOL 69.17 54 eP 29 37.18 -0.7
0.6s 2.85nm 4.6mb
POO 69.58 276 eP 29 44.50 4.1X
MNK 69.81 329 eP 29 37.00 -4.1X
Z 20s 1.50um 5.2Msz
KONO 70.05 341 iPc 29 43.30 0.8
GBA 70.53 269 P 29 45.70 -0.4
0.6s 3.00nm 4.6mb
PYA 70.77 314 eP 29 47.00 -0.2
Z 16s 2.50um 5.6MszX
N 16s 1.00um
E 16s 2.00um
i 30 05.00 67kmX
MTA 71.58 312 iP 29 53.00 0.9
0.6s 50.00nm 5.8mb
ALO 71.85 58 eP 29 53.10 -1.0
0.9s 4.77nm 4.6mb
ASPA 72.07 199 iPc 29 54.00 -1.1
0.7s 14.00nm 5.1mb
Z 22s 0.10um 4.0Msz
GRS 72.36 309 eP 29 57.00 0.0
1.8s 70.00nm 5.4mb
SOC 72.73 316 eP 29 59.00 0.1
Z 16s 1.50um 5.4MszX
N 14s 0.50um
E 14s 0.50um
ANN 72.89 318 eP 30 04.00 4.2X

TAB 73.40 308 iP+ 30 05.00 1.9
SIM 74.28 320 eP 30 08.00 0.1
Z 14s 1.00um 5.3MszX
KIS 74.86 324 iPc+ 30 10.00 -1.2
1.5s 200.00nm 5.9mb
OJC 75.54 331 iPd 30 15.00 0.0
CLI 75.88 325 ePd 30 17.50 0.4
UZH 76.02 329 eP 30 17.80 0.0
Z 19s 0.70um 5.0Msz
i 30 28.00 33kmX
i 30 36.00
KSP 76.12 334 ePc 30 18.20 -0.1
SPC 76.27 330 iP 30 20.40 1.0
EEO 76.46 34 eP 30 21.00 0.7
EKA 76.55 346 P 30 20.00 -0.6
0.6s 2.60nm 4.5mb
VRI 76.66 325 ePd 30 20.00 -1.4
CLL 76.68 336 iPc 30 20.90 -0.5
1.0s 43.00nm 5.5mb
BRG 76.79 335 iP 30 21.40 -0.7
1.8s 34.00nm 5.1mb
WIT 76.96 340 eP 30 25.00 2.0
MLR 77.28 325 iPd 30 26.00 0.9
ISR 77.33 324 eP 30 26.50 1.3
PRU 77.40 334 iP 30 25.30 -0.2
Z 17s 0.80um 5.1MszX
i 30 30.00 15km
LTX 77.49 61 eP 30 24.34 -2.1
MOX 77.66 336 iPc 30 27.00 0.1
1.9s 46.00nm 5.2mb
Z 19s 0.40um 4 8Msz
eS 40 27.00
WTS 77.68 340 eP 30 28.00 1.1
0.8s 15.20nm 5.1mb
ZST 78.17 332 eP 30 29.40 -0.3
FVM 78.35 46 (P) 30 30.19 -0.7
1.2s 14.90nm 4.9mb
KHC 78.45 334 Pc 30 31.60 0.3
Z 18s 0.80um 5.1Msz
N 18s 0.60um
E 18s 0.30um
e 30 40.50 28km
e 31 26.40
GAC 78.61 33 eP 30 32.00 -0.1
GRF 78.63 336 iPc 30 32.80 0.5
0.8s 22.00nm 5.2mb
Z 19s 0.40um 4.8Msz
e 30 38.60 18km
WET 78.65 335 iPc 30 33.00 0.6
GEC2 78.67 334 P 30 32.30 -0.3
0.6s 4.08nm 4.6mb
e 30 33.70 5kmX
e 30 38.80
e 30 43.10
SOP 78.80 332 eP 30 33.90 0.7
BZS 78.83 328 eP 30 31.00 -2.4
TNS 78.90 338 ePc 30 33.90 0.1
ENN 79.03 340 ePc 30 35.00 0.6
1.0s 20.00nm 5.1mb
UZD 79.07 330 e(P) 30 33.00 -1.7
MiAR 79.36 51 eP 30 35.29 -1.2
1.0s 9.68nm 4.8mb
ELC 79.49 46 eP 30 35.87 -1.2
SNF 79.66 340 P 30 39.70 1.9
BHG 79.92 334 eP 30 40.10 0.8
DOU 79.97 340 eP 30 56.80 17.3X
FUR 80.00 335 eP 30 40.10 0.4
WLF 80.00 339 P 30 42.00 2.4X
KBA 80.36 333 iPc 30 42.20 0.4
0.8s 28.30nm 5.3mb
i 30 42.80 2kmX
PTJ 80.57 331 eP 30 42.50 -0.3
WATA 80.66 335 iPc 30 43.70 0.3
i 30 50.40 21km
WTTA 80.70 335 iPc 30 44.20 0.5
0.6s 16.00nm 5.3mb
i 30 45.70 5kmX
MOTA 80.79 335 iPc 30 44.20 0.1
1.2s 41.70nm 5.3mb
i 30 53.90 31km
RBL 80.85 333 P 30 43.70 -0.6
SOTA 80.87 335 iPc 30 45.00 0.5
1.3s 33.30nm 5.2mb
CDF 80.87 338 iPc 30 44.60 0.2
0.8s 7.80nm 4.8mb
LJU 80.90 332 e(P) 30 44.00 -0.5
FVI 80.96 334 P 30 45.10 0.4

VOY 81.12 333 eP 30 45.00 -0.8
VBY 81.15 332 eP 30 45.50 -0.3
CEY 81.21 332 e(P) 30 45.00 -1.1
HAU 81.48 338 iPc 30 47.80 0.2
Z 22s 0.47um 4.8Msz
BSF 81.53 338 iPc 30 47.90 0.0
0.8s 6.30nm 4.7mb
CTI 81.80 334 P 30 48.40 -0.9
LLS 81.82 336 ePc 30 50.10 0.6
SKO 82.00 326 eP 30 51.00 0.7
LMN 82.07 26 eP 30 53.00 2.4X
VAY 82.11 325 iP 30 51.00 0.1
FLN 82.34 343 iPc 30 52.20 0.2
1.3s 28.15nm 5.2mb
Z 18s 0.47um 4.9Msz
LDF 82.43 343 iPc 30 52.50 0.1
1.1s 18.80nm 5.1mb
CSS 82.53 314 eP 30 53.70 0.5
TMA 82.55 336 ePc 30 53.50 0.2
HRI 82.64 311 eP 30 54.90 1.0
GRR 82.78 343 iPc 30 54.60 0.4
1.3s 46.20nm 5.4mb
LOR 82.79 340 iPc 30 54.60 0.2
0.9s 15.05nm 5.1mb
Z 23s 0.47um 4.8MszX
VAI 82.80 336 P 30 54.40 0.1
MMK 82.86 336 P 30 56.30 1.3
DIX 82.98 337 ePc 30 56.80 1.1
MJMA 82.99 300 eP 30 55.67 -0.1
LBF 83.03 339 iPc 30 55.80 0.2
1.3s 26.35nm 5.2mb
SSF 83.07 340 iPc 30 56.20 0.4
0.9s 10.95nm 5.0mb
HYF 83.08 340 eP 30 56.70 0.9
EMS 83.12 337 eP 30 57.30 1.0
LPF 83.15 343 iPc 30 56.70 0.5
1.1s 27.85nm 5.3mb
AVF 83.36 340 iPc 30 57.80 0.6
0.9s 20.15nm 5.3mb
SMF 83.38 339 iPc 30 58.00 0.6
0.9s 31.30nm 5.5mb
BOB 83.61 335 P 30 58.90 0.2
SFI 83.65 333 P 30 59.80 1.1
ARV 83.68 332 P 30 59.30 0.3
LPL 83.69 337 iPc 31 00.40 1.2
0.6s 5.05nm 4.9mb
BGF 83.70 340 iPc 30 59.40 0.4
0.6s 6.95nm 5.0mb
LPG 83.70 337 iPc 31 00.50 1.1
0.6s 5.95nm 5.0mb
PGD 83.73 333 P 31 00.30 0.9
CRE 83.88 333 P 31 00.80 0.7
BDI 83.91 334 P 30 59.60 -0.6
FIR 83.97 333 eP 30 55.50 -4.8X
MAF 84.08 340 iPc 31 02.00 1.0
0.9s 18.20nm 5.3mb
TCF 84.10 340 iPc 31 01.70 0.6
ASS 84.16 332 P 31 01.60 0.1
CKI 84.26 336 P 31 01.80 -0.1
LSF 84.29 341 eP 31 02.70 0.7
1.0s 15.60nm 5.2mb
MFF 84.33 342 eP 31 02.80 0.6
0.6s 5.25nm 4.9mb
AQU 84.56 331 P 31 04.60 1.1
MNS 84.77 332 P 31 04.10 -0.4
ARVI 85.00 310 eP 31 07.10 1.4
SDI 85.00 331 P 31 05.40 -0.3
SBF 85.02 336 iPc 31 05.90 0.2
RJF 85.19 340 iPc 31 07.30 0.8
0.6s 4.05nm 4.8mb
Z 21s 0.45um 4.8Msz
PRM 85.38 43 eP 31 07.80 0.1
CEH 85.39 40 eP 31 07.08 -0.6
1.0s 16.52nm 5.2mb
CAF 85.42 340 eP 31 08.20 0.5
0.5s 3.50nm 4.8mb
FRF 85.52 336 eP 31 08.70 0.5
AFIF 85.56 301 eP 31 11.00 2.2
LRG 85.69 337 eP 31 09.80 0.8
0.7s 9.25nm 5.1mb
LFF 85.71 341 iPc 31 09.30 0.2
0.5s 4.50nm 4.9mb
LMR 85.76 336 iPc 31 10.10 0.7
1.3s 40.45nm 5.5mb
PGF 85.77 334 iPc 31 09.70 0.1
1.1s 14.15nm 5.1mb
MGR 85.79 329 P 31 09.60 0.0

23d 16h

MBH	85.85	310	eP	31	11.10	0.9
LPO	85.85	340	eP	31	10.00	0.2
AYN	85.96	309	eP	31	11.33	0.7
HOL	86.16	309	eP	31	12.67	1.1
SOI	87.43	328	P	31	17.50	-0.1
BCAO	115.38	308	ePKPc	37	08.10	-4.7X
	1.0s	15.00nm				
			ic	38	12.80	
LPB	134.54	63	ePKP	37	50.00	0.2
CNCB	134.82	63	PKP	37	49.00	-1.5
			LR	02	04.00	
SIV	138.26	55	PKP	37	58.30	1.9
MOCB	139.61	65	PKP	37	58.10	-1.1
PPD	148.45	48	ePKP	38	17.10	3.4X
NVL	149.51	204	ePKP	38	16.00	2.2
	S.D. = 1.0	on 208 of 224 obs.				

MAY 23, 1993 16h 49m 16.63± 0.46s
10.674 S ± 7.6km 166.336 E ± 9.1km
DEPTH = 33.0km (normal)
4.9mb (9 obs.)
SANTA CRUZ ISLANDS (184)

HNR	6.41	281	eP	50	52.00	0.7
SVO	6.60	283	eP	50	55.00	1.1
BKM	7.19	165	iPc	51	06.30	4.0X
			iS	52	49.00	
DZM	11.33	179	iPc	52	00.50	1.0
			iS	54	02.60	
CTA	21.48	242	iPc	54	04.00	-0.7
			i	54	08.00	
			eS	58	06.00	
ARMA	23.94	213	eP	54	30.10	1.2
	0.8s	14.00nm			4.5mb	
URZ	29.12	162	P	55	17.70	1.1
MNG	30.90	166	P	55	32.20	-0.3
STK	31.11	224	eP	55	34.20	-0.2
	0 7s	0.90nm			3.7mb	X
CAW	31.28	167	P	55	35.40	-0.3
MTW	31.42	167	P	55	36.40	-0.6
BLW	31.61	167	P	55	38.70	0.0
WB2	32.14	249	iPc	55	42.00	-1.6
	0 8s	9.90nm			4 8mb	
WRA	32.15	249	P	55	42.50	-1.2
	0.7s	2.90nm			4.3mb	
KHZ	32.24	170	P	55	44.60	0.4
LTZ	32.40	172	P	55	46.20	0.6
TOO	32.69	212	iPd	55	48.20	0.0
	0.9s	26.00nm			5.1mb	
ASPA	33.48	243	iPd	55	53.40	-1.8
	0.7s	6.60nm			4.7mb	
TUZ	35.27	176	P	56	10.80	0.5
	0.8s	36.00nm			5.4mb	
MEEK	47 63	244	eP	57	51.90	0.0
MAT	53.91	332	eP	58	40.00	0.8
	0.8s	5.97nm			4.7mb	
LEM	58.09	269	iPd	59	10.00	0.1
BJI	68.56	321	eP	00	19.50	1.2
KMI	71.43	301	Pd	00	38.50	2.1
	1.5s	50.00nm			5.3mb	
			sP	00	52.50	
YAK	77.89	343	eP	01	15.00	2.6X
	0.6s	28.00nm			5.5mb	
NUR	122.79	339	ePKP	08	12.00	1.6
NB2	126.50	345	PKP	08	19.00	1.3
	0.7s	1.30nm				
GEC2	135.63	334	PKP	08	37.50	2.0
	0.7s	1.02nm				
			e	08	41.00	
LPL	141.14	337	ePKP	08	43.80	-2.2
LPG	141.14	337	ePKP	08	43.70	-2.4
MFF	142.40	345	ePKP	08	47.60	-0.2
FRF	142.80	335	ePKP	08	46.70	-1.9
LRG	143.00	336	ePKP	08	47.60	-1.3
	0.6s	3.05nm				
LMR	143.04	335	ePKP	08	47.50	-1.5
	0.7s	8.25nm				
CAF	143.29	341	ePKP	08	49.20	-0.3
	1.1s	8.30nm				
LFF	143.68	343	ePKP	08	50.20	0.1
	0.7s	7.95nm				
LPO	143.78	342	ePKP	08	50.70	0.4
	0.9s	6.20nm				
LSPF	145.10	340	PKP	08	54.91	2.3X
LESF	145.23	341	PKP	08	55.33	2.5X
GRBF	145.32	340	PKP	08	54.92	1.9X
EPF	145.53	342	ePKP	08	56.50	3.1X
	1.0s	8.40nm				
EGRA	146.49	342	ePKP	08	59.00	4.1X
ECRI	146.73	345	ePKP	09	00.00	4.7X
BCAO	147.50	261	iPKPc	09	00.50	3.1X
	0.5s	35.00nm				
			ic	09	13.40	
STS	147.60	353	ePKP	09	02.00	5.4X
ETOR	148.27	343	iPKPc	09	04.00	6.1X
GUD	148.99	346	iPKPc	09	06.00	6.9X
ECHE	149.07	341	ePKP	09	06.50	7.3X
EALH	150.78	340	ePKP	09	10.00	8.3X
EHUE	151.20	342	ePKP	09	11.00	8.5X
E8AN	151.23	344	ePKP	09	12.00	9.6X
ELUO	151.93	344	iPKPd	09	13.50	10.0X
ECOG	151.99	343	ePKP	09	12.30	8.6X
EGUA	152.40	342	iPKPd	09	13.00	8.8X
	S.D. = 1.2	on 35 of 54 obs.				

* MAY 23, 1993 16h 55m 32.30± 1.17s
26.749 S ± 5.3km 71.424 W ±13.7km
DEPTH = 93.0 ± 17.9 km
OFF COAST OF NORTHERN CHILE (121)

FSA	4.90	83	e(P)	56	45.20	0.3
RTLL	5.25	151	ePd	56	50.50	0.7
RTCB	5.25	155	iPc	56	51.00	1.1
CYA	5.27	110	ePc	56	48.30	-1.9
			(S)	57	43.50	
ZON	5.35	154	eP	56	51.80	0.5
CFA	5.58	151	ePc	56	55.00	0.5
			(S)	57	54.00	
RTCV	5.68	154	ePc	56	56.10	0.2
SLA	5.71	71	ePc	56	59.40	3.0X
HJA	6.50	58	e(P)	57	07.50	0.5
MDZ	6.51	161	e(P)	57	15.50	8.2X
			i	57	57.80	
YJA	7.06	51	e(P)	57	15.00	-0.3
MOCB	7.61	45	P	57	23.10	0.3
RFA	8.39	163	ePc	57	31.00	-2.1
			i	57	42.70	
ARE	10.24	360	eP	57	58.00	-0.4
			eS	59	47 00	
CNCB	10.39	19	P	58	00.80	0.1
LP8	10.63	18	P	58	07.00	3.3X
SIV	14.40	44	P	58	47.00	-5.9X
PPD	18.91	80	eP	59	48.20	-0.2
VAO	22.49	86	eP	00	25.50	0.6
WRA	127.29	211	PKP	14	35.00	6.8X
	0.5s	0.60nm				
	S.D. = 1.0	on 15 of 20 obs.				

MAY 23, 1993 17h 19m 23.65± 0.36s
45.365 N ± 2.1km 25.512 E ± 2.0km
DEPTH = 22.1 ± 3.3 km
4.7mb (61 obs.)
ROMANIA (358)
ML 4.7 (TTG).

MLR	0.33	67	iPc	19	29.90	-1.2
CMP	0.35	254	iPc	19	29.00	-2.3
ISR	0.76	107	iPd	19	41.00	2.8X
VRI	0.99	59	iPc	19	42.00	0.0
BUC	1.04	156	iPc	19	44.00	1.2
BRD	1.09	81	iPc	19	46.50	2.9X
DRA	1.12	233	ePc	19	45.00	0.9
FOC	1.22	74	iPc	19	24.00	-21.4X
PTT	1.68	21	eP	19	52.00	-0.1
PPE	1.70	59	iPd	19	53.50	1.2
CFR	1.87	95	eP	19	55.00	0.2
DEV	1.90	287	iPc	19	56.00	0.8
GZR	1.93	272	iPc	19	53.00	-2.7X
IAS	2.32	37	eP	20	03.00	1.9
BMR	2.70	330	iPd	20	07.00	0.4
BZS	2.75	277	ePc	20	04.50	-2.8X
KIS	2.86	53	eP	20	08.00	-0.8
TIM	3.04	279	iPc	20	14.00	2.6X
CEI	3.14	319	eP	20	14.00	1.2
DMK	3.90	154	iPn	20	25.30	1.7
UZH	3.94	327	iPc+	20	23.20	-0.9
	0.6s	42.00nm				
			i	21	18.00	
RDO	4.22	180	eP	20	28.80	0.6
SRS	4.47	199	iP	20	32.00	0.2
ALN	4.48	175	eP	20	31.92	0.0
SKO	4.50	222	ePn	20	33.00	0.8
			i	20	48.80	
			i	21	22.80	
			iSn	21	42.00	
			i	21	49.70	
LVV	4.57	348	eP	20	35.00	1.9
			i	21	20.00	
VAY	4.58	209	iPn	20	33.00	-0.3
			i	21	47.30	
			iSn	21	51.00	
KNT	4.61	205	eP	20	33.80	0.0
CTT	4.72	152	iP	20	35.20	-0.2
IVA	4.75	240	iPnc	20	35.51	-0.3
			iSn	21	36.16	
SOH	4.81	200	iP	20	36.60	0.0
PLE	4.84	247	iPnd	20	36.60	-0.4
			iSn	21	37.56	
PVY	4.86	237	iPnd	20	37.56	0.2
			iSn	21	38.75	
GRG	4.96	208	eP	20	38.00	-0.7
BUD	4.96	298	eP	20	35.40	-3.3X
UZD	4.98	287	eP	20	37.80	-1.2
ISK	5.02	148	iP	20	40.20	0.7
KGT	5.08	164	iP	20	39.70	-0.7
THE	5.09	202	eP	20	40.08	-0.3
PHP	5.21	227	iPnc	20	42.80	0.6
			iSn	21	40.10	
SPC	5.24	319	iPn	20	42.30	-0.5
			i(Pb)	20	51.90	
			iPg	21	07.70	
			i(Sb)	22	04.30	
			Lg	22	30.00	
EDC	5.30	160	iP	20	44.00	0.4
NKY	5.34	244	iPnd	20	43.74	-0.4
			iSn	21	50.84	
TTG	5.39	239	iPnc	20	44.48	-0.2
			iSn	21	52.19	
HRT	5.47	145	iP	20	45.70	-0.2
OHR	5.47	221	iPn	20	45.30	-0.6
			i	21	06.40	
			i	21	40.50	
			i	22	03.20	
			i	22	22.00	
FNA	5.49	215	eP	20	45.76	-0.5
KCT	5.52	157	eP	20	47.00	0.3
EZN	5.57	174	iP	20	46.00	-1.3
YLV	5.57	148	eP	20	46.70	-0 7
BRY	5.59	246	iPnd	20	47.37	-0.3
			iSn	21	56.57	
PAIG	5.60	195	eP	20	46.44	-1.3
LACI	5.63	231	iPnc	20	49.00	0.9
			iSn	21	52.50	
ULC	5.67	235	iPnd	20	48.78	0.0
			iSn	21	58.80	
LIT	5.71	204	eP	20	47.84	-1.5
BDV	5.73	240	iPnc	20	49.48	-0.1
			iSn	22	00.45	
TIR	5.75	228	ePn	20	50.80	1.0
			iSn	21	56.00	
KZN	5.75	210	eP	20	49.50	-0.4
HCY	5.85	243	ePn	20	51.13	0.0
			iSn	22	02.34	
EYL	5.88	143	eP	20	44.70	-7.1X
SIM	6.10	91	eP	20	54.00	-0.7
			eS	22	05.00	
PRK	6.14	174	eP	20	54.90	-0.4
GPA	6.18	144	eP	20	52.00	-3.9X
OJC	6.20	324	eP	20	54.10	-2.0
			iS	22	01.20	
			i	22	32.30	
DST	6.20	157	iP	20	55.50	-0.7
ZST	6.43	299	e(Pn)	20	44.20	-15.2X
			i	20	47.50	
			i	20	55.40	
			i	21	53.60	
ZST	6.43	299	eP	20	56.70	-2.7X
			i	21	07.10	
			i	21	09.70	
			i	21	35.80	
			i	22	26.10	
TPE	6.48	221	ePn	21	05.00	4.9X
VLO	6.59	224	ePn	21	06.00	4.3X
SOP	6.60	294	eP	21	01.50	-0.3
ZAG	6.70	277	eP	21	01.50	-1.7
PTJ	6.72	278	eP	21	01.30	-2.3
AGG	6.76	202	eP	21	02.48	-1.7
SRN	6.82	218	ePn	21	06.50	1.6
RAC	6.83	316	ePn	21	06.00	1.0
			ePg	21	42.00	
			eSg	23	05.00	

23d 17h

HVAR	6.86	255	iP	21	06.70	1.2	CTI	9.72	279	P	21	45.70	0.3	DOU	14.84	296	Pc	23	01.80	8.1X
VKA	6.94	298	e(P)	21	05.00	-1.6	MNS	9.73	257	P	21	44.20	-1.2	LBF	15.00	284	eP	22	57.80	1.8
	1.0s		1.90nm			4.1mb	KSL	9.74	160	eP	21	47.70	2.3		1.2s		27.35nm			4.5mb
			i	22	22.60		WTTA	9.79	286	iPd	21	45.30	-1.0	LOR	15.08	285	eP	22	58.50	1.6
			LR	25	10.00			0.9s		33.70nm			5.7mb X		1.0s		57.20nm			4.9mb
IGT	6.97	215	eP	21	08.16	1.1				i	21	47.30		Z	20s		0.15um			4.5Msz
KEK	7.05	219	eP	21	11.50	3.4X				i	22	00.50		SMF	15.11	283	eP	22	59.20	1.9
IZM	7.08	169	eP	21	06.00	-2.6X				i	23	21.80			1.1s		40.80nm			4.7mb
ALT	7.17	150	eP	21	06.00	-3.9X	SFI	9.85	266	P	21	49.60	2.7X	SNF	15.11	298	iPc	23	03.42	6.2X
VBY	7.22	275	ePn	21	10.20	-0.2	CRE	9.85	265	P	21	46.70	-0.3				ic	23	05.76	
			e	23	29.00		PGD	9.95	266	P	21	48.10	-0.4	NUR	15.18	358	iP	22	51.20	-6.9X
LCI	7.49	230	P	21	13.70	-0.5	RMP	9.95	254	P	21	47.60	-0.7		0.3s		1.50nm			3.8mb
WAR	7.49	338	e(P)	21	30.00	15.8X	RDP	9.96	253	P	21	50.30	1.7	UPP	15.27	345	iP	22	55.00	-4.2X
			e	22	01.00		SOI	10.15	227	P	21	50.30	-0.7				iS	27	36.00	
			e	22	55.00		FUR	10.16	291	iPc	21	50.50	-0.8	SSF	15.32	284	eP	23	01.30	1.2
			e	23	20.00		GMB	10.17	228	P	21	50.36	-1.2		1.0s		39.60nm			4.6mb
			e	23	40.00		CLL	10.23	310	eP	21	50.00	-2.1	AVF	15.44	283	eP	23	02.70	1.1
			e	24	00.00			2.2s		61.00nm			5.5mb X		1.1s		29.30nm			4.5mb
BRT	7.55	236	P	21	14.81	-0.3				e	22	12.00		BGF	15.80	282	eP	23	07.10	0.8
KHL	7.65	156	eP	21	15.60	-0.9	FIR	10.30	266	e(Pn)	21	50.50	-2.6X		1.2s		38.40nm			4.4mb
LJU	7.72	279	ePn	21	18.00	0.5				i(Sn)	24	16.00		HYF	15.91	285	eP	23	07.80	0.2
			e	21	27.50		SOC	10.31	95	eP	21	50.00	-3.3X	MAF	16.02	281	eP	23	11.70	2.6X
LJU	7.72	279	e(Pb)	21	49.00	31.5X		2.0s		100.00nm			5.8mb X		1.1s		19.80nm			4.2mb
			eSn	22	43.00		Z	16s		0.50um			6.0MszX	TCF	16.26	282	eP	23	12.80	0.6
			eSb	23	10.50		ATN	10.39	230	P	21	52.70	-1.7		1.4s		41.40nm			4.4mb
CEY	7.79	277	ePn	21	21.00	2.5X	GRF	10.59	299	eP	21	57.40	0.3	CAF	16.54	277	eP	23	17.40	1.7
			i	21	59.90		Z	18s		0.50um					1.2s		18.45nm			4.1mb
			e(Sn)	22	42.00					e	21	59.20		ETER	16.62	267	eP	23	22.40	5.7X
			eSb	23	11.00					e	22	05.40		LSF	16.73	282	eP	23	15.10	-3.0X
			e	23	29.50					e(S)	24	03.10			1.1s		18.80nm			4.1mb
RIY	7.84	274	iP	21	23.40	4.3X	MOX	10.70	305	eP	21	55.00	-3.6X	KAF	16.79		1 iP	23	11.50	-7.1X
VOY	8.16	279	e(Pn)	21	19.50	-4.3X		1.8s		30.00nm			5.3mb		0.8s		12.90nm			4.1mb
			e	21	24.00		OSS	10.77	283	P	21	59.38	-0.4	RJF	16.86	278	eP	23	18.40	-1.4
			e	21	25.70		MNO	10.98	231	P	22	02.09	-0.5	Z	22s		0.13um			
			eSn	22	51.00		GIB	11.31	233	P	22	05.90	-1.1	TAB	17.14	108	eP	23	25.00	1.6
			eSb	23	18.00		PZI	11.52	227	P	22	07.03	-2.9X	LPO	17.20	276	eP	23	24.20	0.2
KSP	8.25	315	ePn	21	21.80	-3.1X	LLS	11.56	283	P	22	11.60	1.0		1.0s		11.00nm			3.9mb
	1.0s		86.00nm			5.9mb X	TMA	11.66	280	P	22	14.57	2.8X	KONO	17.20	332	iPc	23	25.50	1.6
			i	21	24.30		VAI	11.74	278	P	22	14.50	1.8	LFF	17.46	277	eP	23	25.60	-1.7
			i	21	37.30		BSD	11.87	329	eP	22	20.00	5.6X	LDF	17.76	290	eP	23	28.10	-2.8
			eS	23	28.00		SLE	11.96	288	P	22	13.88	-1.9		1.1s		43.45nm			4.5mb
TRI	8.26	277	e(Pn)	21	27.50	2.5X	FAI	12.01	232	P	22	16.80	0.4	N82	17.82	337	P	23	25.70	-5.9X
			e(Sn)	22	59.00		OBN	12.04	32	eP	22	10.00	-6.7X		0.8s		4.20nm			3.6mb X
			e	24	00.00			1.4s		120.00nm			5.9mb X	MFF	17.85	283	eP	23	29.40	-2.7X
ANN	8.35	89	eP	21	23.50	-2.8X				i	24	34.00			1.1s		25.90nm			4.3mb
	1.0s		20.00nm			5.3mb	PCP	12.05	272	P	22	19.27	2.2	FLN	18.00	290	eP	23	30.60	-3.3X
RBL	8.40	282	P	21	26.30	-0.8	PGF	12.23	263	eP	22	15.40	-4.1X		1.2s		43.75nm			4.5mb
KBA	8.61	286	iPd	21	28.40	-1.7		1.2s		39.00nm			5.5mb	Z	17s		0.15um			5.6Msz
	0.8s		21.20nm			5.4mb X	CVT	12.23	236	P	22	14.80	-4.6X	EPF	18.18	272	eP	23	35.10	-1.1
			i	21	30.70		FIN	12.35	271	P	22	18.68	-2.4		0.9s		8.50nm			3.9mb
			i	21	42.60		TNS	12.45	299	ePc	22	24.70	2.3	GRR	18.25	289	eP	23	33.00	-3.9X
			i	23	05.60		PYA	12.56	90	eP	22	33.00	9.2X		1.0s		24.00nm			4.3mb
MNK	8.65	8	eP	21	35.00	4.7X	Z	18s		1.00um			4.8Msz	LPF	18.38	288	eP	23	35.40	-3.1X
PRU	8.73	306	ePn	21	31.50	0.0	ROB	12.57	271	P	22	24.81	0.8		1.1s		43.00nm			4.5mb
			e	23	00.00		IMI	12.64	270	P	22	23.81	-1.1	HAE	19.60	300	eP	23	51.30	-1.9
GEC2	8.77	298	Pn	21	29.50	-2.8X	DIX	12.67	280	P	22	27.19	1.6	HGH	19.71	299	eP	23	55.10	0.8
			Sg	23	13.00		CDF	12.84	290	eP	22	22.70	-4.9X	HTR	20.05	300	eP	23	57.50	-0.4
ROI	8.78	232	P	21	32.10	-0.2		0.8s		5.10nm			4.7mb	MOL	20.09	335	eP	23	55.20	-3.0X
CSI	8.80	234	P	21	30.90	-1.6	LSD	12.90	277	P	22	31.59	3.0X	HCG	20.32	301	eP	24	00.30	-0.5
DUI	8.84	249	P	21	33.40	0.2	ENR	12.90	271	P	22	29.71	1.3	ESY	20.58	311	eP	24	01.20	-2.2
TDS	8.85	233	P	21	33.00	-0.2	BHB	12.91	274	P	22	30.62	2.2		1.2s		24.00nm			4.5mb
VLI	8.85	194	eP	21	35.50	2.2	MOS	12.91	32	eP	22	25.00	-3.3X	ETOR	20.59	267	eP	24	04.00	0.3
SGO	8.89	241	P	21	32.30	-1.4		2.0s		170.00nm			5.9mb X	EKA	20.69	309	Pc	24	02.50	-2.0
KHC	8.95	299	P	21	34.40	-0.2	EMS	13.01	280	P	22	33.25	3.3X		1.0s		17.30nm			4.4mb
	1.0s		12.50nm			5.1mb X	BSF	13.11	288	eP	22	26.00	-5.2X	EBL	20.76	310	eP	24	03.00	-2.3
			e	21	51.00		LPG	13.18	277	eP	22	32.10	-0.2	EDI	20.89	311	eP	24	04.80	-1.7
			e	22	24.50			1.3s		75.45nm			5.6mb	EDU	21.00	312	eP	24	08.50	0.8
			e	24	02.50		LPL	13.19	277	eP	22	32.30	-0.1	ELO	21.34	312	eP	24	09.30	-1.9
			e	24	18.50			1.0s		39.60nm			5.4mb		1.1s		24.00nm			4.5mb
FVI	8.95	282	P	21	36.50	1.9	RRL	13.23	275	P	22	35.06	2.1	EALH	21.42	259	eP	24	13.90	1.8
MGR	8.99	238	P	21	34.00	-1.2	COP	13.24	326	eP	22	30.00	-2.6X	EAB	21.59	311	eP	24	12.00	-1.6
BHG	9.02	290	iPc	21	37.10	1.5		0.8s		38.81nm			5.5mb		1.1s		34.00nm			4.7mb
ACI	9.14	232	P	21	37.30	0.1	HAU	13.42	288	eP	22	30.30	-4.9X	SDF	22.12		1 iP	24	19.80	1.0
ARV	9.19	263	P	21	39.40	1.5	Z	17s		0.15um				GUD	22.14	268	iPd	24	20.80	1.4
SDI	9.25	251	P	21	38.00	-0.7	FRF	13.60	269	eP	22	32.20	-5.3X	ENIJ	22.40	258	eP	24	23.00	1.1
AQU	9.25	255	P	21	39.00	0.2	LMR	13.75	268	eP	22	34.30	-5.2X	ECOG	23.19	260	eP	24	31.90	2.1
CZI	9.27	232	P	21	39.60	0.7		0.8s		7.00nm			4.6mb	ARU	23.38	50	eP	24	32.00	0.7
RFI	9.33	248	P	21	41.61	1.9	WLF	13.76	295	P	22	46.00	6.4X		2.0s		70.00nm			4.8mb
WET	9.38	298	iPc	21	42.60	2.0	LRG	13.82	269	eP	22	35.50	-5.0X				e	28	47.00	
GRI	9.40	229	P	21	40.63	-0.2		1.3s		47.30nm			5.1mb	EGUA	23.41	259	eP	24	33.00	1.2
RSM	9.42	266	P	21	41.80	0.8	ENN	14.15	299	eP	22	55.50	10.7X	KAT	23.48	94	iP+	24	36.00	3.6X
BRG	9.49	310	iP	21	42.60	0.5		1.0s		33.00nm							e	29	41.00	
	2.0s		32.00nm			5.3mb X	GRO	14.57	91	eP	23	00.00	9.7X	ELUQ	23.54	261	iPc	24	34.50	1.4
BRG	9.49	310	iP	21	42.70	0.6		1.5s		160.00nm			5.3mb	KEV	24.47		1 iP	24	50.60	8.9X
	1.2s		19.00nm			5.3mb X	PUL	14.71	10	eP	22	46.00	-6.0X		1.1s		43.20nm			5.0mb
			e	22	37.50			1.4s		120.00nm			5.2mb	SVE	24.57	50	ePd	24	46.00	3.2X
ASS	9.51	261	P	21	41.60	-0.7				eS	25	26.00			3.5s		280.00nm			5.3mb X

23d 17h

		e	25 30.00		
ASH	25.50	95 eP	24 54.00	2.2	
	1.5s	260.00nm		5.7mb	
MAIO	27.09	98 eP	25 11.00	4.3X	
DAG	36.25	344 eP	26 29.00	2.5X	
NRI	38.91	30 iPd	26 53.30	4.5X	
	1.6s	42.00nm		4.9mb	
		e	29 03.00		
ELT	39.30	56 eP	26 52.40	0.2	
	1.6s	13.00nm		4.4mb	
BCAO	41.22	191 iPd	27 08.30	-0.2	
	1.0s	10.00nm		4.5mb	
		id	29 08.10		
NDI	43.74	94 iPc	27 30.00	1.1	
	1.0s	25.00nm		5.0mb	
POO	48.03	108 eP	28 07.00	3.8X	
GKN	49.37	89 P	28 13.10	-0.5	
DMN	49.94	90 P	28 17.60	-0.5	
KKN	49.95	89 P	28 17.30	-0.9	
	0.6s	31.00nm		5.5mb	
ZAK	50.18	55 eP	28 20.00	0.8	
	0.9s	8.00nm		4.7mb	
PKI	50.18	89 P	28 19.00	-1.0	
GUN	50.30	89 P	28 20.20	-0.8	
	1.0s	68.00nm		5.6mb	
TIK	51.61	23 eP	28 32.00	2.1	
	1.4s	15.00nm		4.7mb	
		e	30 29.00		
HYB	52.00	105 eP	28 32.00	-1.5	
FRB	52.19	326 eP	28 36.00	1.7	
	1.0s	6.00nm		4.5mb	
BOD	52.55	42 eP	28 35.50	-1.7	
	1.0s	7.00nm		4.5mb	
GBA	53.95	109 P	28 46.00	-1.9X	
LZH	57.90	69 eP	29 16.00	-0.4	
	1.4s	16.00nm		4.9mb	
LMN	59.70	306 eP	29 31.50	2.9X	
JAO	60.69	318 eP	29 32.00	-3.3X	
BRW	63.63	1 (P)	29 57.14	2.6X	
KMI	63.85	80 Pc	29 56.50	-0.5	
	1.6s	40.00nm		5.3mb	
		pP	30 00.00	11kmX	
FCC	64.92	330 eP	30 09.50	6.3X	
CHTO	65.31	88 eP	30 04.70	-1.5	
ILT	65.60	10 eP	30 08.00	0.7	
GAC	65.68	311 eP	30 09.00	0.7	
EEO	66.94	314 eP	30 20.50	4.2X	
WIN	68.04	188 eP	30 23.00	-0.5	
	1.0s	40.00nm		5.5mb	
IMA	68.90	360 eP	30 27.51	-0.9	
	0.8s	4.83nm		4.7mb	
FBA	69.95	357 eP	30 35.03	0.4	
	0.9s	4.97nm		4.6mb	
SLR	70.80	177 e(P)	30 39.00	-1.4	
KSR	70.90	179 eP	30 40.00	-1.0	
	1.0s	40.00nm		5.5mb	
PRY	71.97	178 eP	30 45.00	-2.4	
	1.3s	40.00nm		5.3mb	
ULM	72.06	325 eP	30 51.00	3.4X	
SEK	73.36	178 eP	30 58.00	2.5	
	1.0s	40.00nm		5.4mb	
BALM	73.50	354 eP	30 57.27	1.3	
CEH	74.36	305 eP	31 01.15	-0.1	
	0.9s	14.35nm		5.0mb	
RSSD	80.29	326 eP	31 33.6B	-0.6	
	1.0s	3.57nm		4 3mb	
DPW	81.85	336 eP	31 42.07	-0.2	
LRM	81.91	332 eP	31 42.70	-0.1	
MIAR	83.26	313 eP	31 48.72	-1.0	
	1.1s	16.17nm		5.1mb	
GMW	83.38	339 (P)	31 50.98	0.9	
BW06	83.54	328 eP	31 50.91	-0.4	
	1.2s	10.5Bnm		4.9mb	
HVU	85.58	330 eP	32 01.21	-0.2	
DUG	86.99	329 eP	32 08.46	0.0	
	1.1s	6.05nm		4.7mb	
SRU	87.09	327 eP	32 10.43	1.4	
BONR	90.88	332 eP	32 28.22	1.1	
LTX	92.48	317 eP	32 35.29	1.0	
S.D. = 1.2 on 202 of 281 obs.					

? MAY 23, 1993 17h 41m 00.22± 5.74s
31.058 S ±87.1km 69.315 W ±36.1km
DEPTH = 117.2 ± 34.2 km
SAN JUAN PROVINCE, ARGENTINA (137)

RTBS	0.61	191 iPd	41 18.80	0.0	
RTCB	0.61	134 iPd	41 19.00	0.0	
		S	41 31.20		
ZON	0.73	132 iPc	41 20.00	0.1	
		eS	41 32.00		
RTLL	0.77	111 iPc	41 20.20	0.0	
		(S)	41 31.00		
CFA	1.07	121 ePc	41 23.00	-0.1	
		S	41 37.10		
TCA	4.06	95 ePd	42 01.50	0.0	
		S	42 45.40		
S.D. = 0.1 on 6 of 6 obs.					

MAY 23, 1993 18h 44m 29.55± 0.51s
40.809 N ± 7.3km 72.551 E ± 7.1km
DEPTH = 33.0km (normal)
4.4mb (16 obs.)
KYRGYZSTAN (716)

FRU	2.54	37 ePnc	45 11.20	1.8	
		i	45 15.20		
		i	45 44.20		
TLG	4.36	54 iPnc	45 35.00	-0.2	
		i	45 44.00		
		eS	46 19.50		
PRZ	4.69	67 ePn	45 42.00	2.0	
MAIO	11.17	250 eP	47 10.00	0.0	
		eS	49 14.00		
ELT	15.53	32 eP	48 05.30	-2.2	
	1.4s	18.00nm		4.1mb	
		e	50 55.00		
GKN	16.18	138 P	48 14.60	-1.6	
DMN	16.74	138 P	48 22.60	-0.8	
GUN	16.90	135 P	48 25.50	0.0	
	0.5s	26.00nm		4.6mb	
PKI	16.93	137 P	48 24.80	-1.0	
	0.7s	29.00nm		4.5mb	
SVE	17.79	338 ePc	48 43.00	7.0X	
		e	52 03.00		
ARU	18.07	334 eP	48 40.00	0.6	
UER	18.31	47 eP	48 40.00	-2.5	
	0.9s	10.00nm		4.0mb	
GRS	20.06	275 eP	49 02.00	-0.9	
	0.7s	30 00nm		4.7mb	
MOY	22.33	51 eP	49 25.20	-0.4	
ZAK	23.39	55 iPc	49 37.00	1.0	
	1.0s	23.00nm		4.6mb	
HYB	23.88	166 eP	49 45.50	4.5X	
GBA	27.44	170 P	50 17.40	3.1X	
OBN	27.64	313 eP	50 23.00	7.2X	
BOD	31.41	43 iPc	50 46.60	-2.8X	
	0.7s	7.00nm		4.6mb	
KAF	34.78	323 eP	51 36.80	18.2X	
	0.3s	0.80nm			
TIK	41.33	24 eP	52 12.00	-1.2	
	1.2s	20 00nm		4.7mb	
		e	54 13.00		
GEC2	41.57	302 P	52 16.70	1.1	
	0.5s	0.80nm		3.7mb	
		e	52 19.50		
		e	52 21.50		
		e	52 27.60		
NB2	41.76	320 P	52 16.00	-1.0	
	0.6s	1.40nm		3.9mb	
BCAO	60.35	248 ePd	54 38.00	0.2	
	0.7s	5.00nm		4.8mb	
MBC	62.98	3 eP	54 54.00	-0.7	
	0.9s	11.00nm		5.0mb	
INK	69.46	10 eP	55 36.50	0.5	
	0.9s	2.00nm		4.2mb	
WRA	83.29	123 P	56 56.50	2.2	
	0.7s	0.80nm		3.9mb	
WB2	83.30	123 eP	56 56.20	1.8	
	1.0s	2.10nm		4.2mb	
ASPA	85.77	126 eP	57 08.10	1.4	
	2.0s	3.50nm		4.2mb	
S.D. = 1.4 on 23 of 29 obs.					

% MAY 23, 1993 19h 12m 54.25± 0.82s
26.357 S ± 6.2km 27.473 E ± 9.6km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.8 (PRE).

PRY	0.57	180 eP	13 05.00	-0.7	
		S	13 13.00		
KSR	0.71	313 eP	13 08.50	0.0	
		S	13 18.00		
SLR	0.96	50 eP	13 12.90	-0.1	
		S	13 24.10		
SEK	1.96	176 eP	13 29.50	0.8	
		S	13 50.00		
BLF	2.97	202 eP	13 43.00	0.0	
		S	14 17.00		
S.D = 0.7 on 5 of 5 obs.					

MAY 23, 1993 19h 24m 14.44± 0.45s
45.332 N ± 6.2km 25.383 E ± 5.0km
DEPTH = 24.2 ± 7.3 km
2.8mb (1 obs.)
ROMANIA (358)

CMP	0.25	255 iPc	24 19.00	-1.8	
MLR	0.43	68 iPc	24 20.00	-3.5X	
ISR	0.84	103 iPc	24 31.50	1.1	
		e	56 30.00		
TNR	0.84	293 iPd	24 24.00	-6.4X	
DRA	1.03	231 ePc	24 37.00	3.7X	
BUC	1.05	151 ePd	24 32.50	-1.1	
VRI	1.08	60 iPd	24 32.50	-1.6	
BRD	1.19	80 ePc	24 37.50	1.9	
PTT	1.75	23 eP	24 45.00	1.4	
PPE	1.80	60 eP	24 48.00	3.7X	
CLI	1.80	47 eP	24 43.50	-0.9	
GZR	1.84	273 iPc	24 46.50	1.5	
CFR	1.96	93 eP	24 45.00	-1.7	
IAS	2.40	38 eP	25 12.00	19.1X	
BMR	2.68	332 ePd	24 57.00	0.1	
CEI	3.10	320 eP	25 13.00	10.1X	
SKO	4.41	222 ePn	25 38.00	16.5X	
SRS	4.41	198 iP	25 22.28	0.7	
ALN	4.46	174 eP	25 21.96	-0.3	
VAY	4.50	208 iPn	25 23.70	0.9	
KNT	4.55	204 eP	25 23.92	0.4	
CTT	4.74	151 iPn	25 25.90	-0.3	
SOH	4.75	199 iP	25 26.82	0.5	
UZD	4.91	287 ePn	25 29.60	1.1	
THE	5.02	202 eP	25 31.34	1.2	
KGT	5.08	163 ePn	25 30.20	-0.7	
OUR	5.10	192 eP	25 31.72	0.5	
SPC	5.21	320 eP	25 31.60	-1.3	
FNA	5.41	214 eP	25 34.40	-1.3	
PAIG	5.55	194 eP	25 36.88	-0.7	
ZST	6.37	300 eP	26 45.80	56.6X	
GEC2	8.71	298 Pn	26 20.50	-1.5	
		e	26 28.40		
		e	26 38.00		
NB2	17.81	337 P	28 17.60	-4.4X	
	0.7s	0.60nm		2.8mb	
S.D. = 1.2 on 24 of 33 obs.					

MAY 23, 1993 19h 52m 21.53± 0.32s
15.316 S ±13.6km 173.448 W ± 8.0km
DEPTH = 33.0km (normal)
5.0mb (20 obs.) 4.6Msz (3 obs.)
TONGA ISLANDS (173)

DZM	20.19	248 iPc	56 56.00	-0.4	
PMO	24.66	93 iPd	57 40.40	-0.3	
	1.4s	350.30nm		5.7mb	
VAH	24.90	93 iPd	57 42.30	-0.7	
	1.4s	231.80nm		5.6mb	
TPT	24.93	93 iPd	57 43.00	-0.3	
	1.6s	567.20nm		5.9mb	
RUV	25.14	93 iPd	57 44.60	-0.7	
	1.5s	369.80nm		5.8mb	
TOO	42.48	231 iPc	00 15.60	0.2	
	1.0s	38.00nm		5.1mb	
STK	44.04	240 eP	00 27.80	-0.3	
	1.0s	1.40nm		3.7mb X	
WB2	49.81	257 eP	01 11.90	-1.7	
	0.7s	19.70nm		5.2mb	
WRA	49.82	257 P	01 11.90	-1.8	
	0.8s	4.00nm		4.5mb	
ASPA	50.09	252 iPc	01 14.00	-1.8	
	0.7s	82.50nm		5.9mb	
Z	22s	1.10um		4.8Msz	
MAT	68.84	320 eP	03 21.00	-4.0X	
	1.2s	37.50nm		5.3mb	
Z	21s	0.36um		4.6Msz	
		eS	12 29.00		
PGP	70.92	290 eP	03 55.50	17.4X	
BCH	71.27	44 (P)	03 41.85	1.9	
BONR	74.03	42 eP	03 56.07	-0.3	
SPA	74.78	180 iPd	04 03.60	3.5X	

0.8s 2.08nm 4.2mb
MSU 78.40 45 eP 04 20.61 -0.3
DUG 78.83 43 eP 04 22.70 -0.4
0.9s 4.86nm 4.5mb
TTA 79.18 8 eP 04 24.11 -0.3
1.0s 5.42nm 4.5mb
SRU 79.82 45 eP 04 28.16 -0.4
DPW 79.85 34 eP 04 26.55 -1.8
e 04 33.00
BALM 80.04 15 eP 04 27.40 -1.8
LTX 80.60 56 eP 04 31.70 -1.1
ALQ 80.78 50 eP 04 33.96 0.2
0.8s 4.16nm 4.5mb
LRM 81.98 38 eP 04 39.50 -0.3
BW06 82.24 42 eP 04 40.59 -0.7
1.4s 12.94nm 4.8mb
F8A 82.32 11 eP 04 39.17 -1 7
0.8s 21.67nm 5.3mb
e 04 47.06
IMA 82.49 8 eP 04 41.34 -0.5
0.8s 2.48nm 4.3mb
ILT 83.07 358 eP 04 43.00 -1.6
i 04 49.00
GOL 83.63 46 eP 04 47.84 -0.7
1.1s 16.44nm 5.1mb
RSSD 86.43 42 eP 05 01.88 -0.4
1.3s 14.96nm 5.1mb
INK 88.20 14 eP 05 11.00 1.0
1.0s 3.00nm 4.6mb
CIT 91.80 324 eP 05 28.00 0.8
LZH 93.14 306 eP 05 35.00 1.1
Z 30s 0.31um 4.6MszX
FVM 93.91 52 eP 05 37.48 0 2
1.5s 27.47nm 5.5mb
OBN 134.02 336 ePKP 11 36.00 -0.9
KSP 143.70 350 ePKP 11 53.00 -1.8
CLL 143.72 353 iPKPc 11 54.80 0.0
BRG 144.03 352 ePKP 11 57.20 1.9
UZH 144.34 342 iPKPc 11 54.80 -1.1
1.3s 42 00nm
e 11 59.00
SPC 144.41 345 ePKP 11 56.30 0.0
MOX 144.52 354 ePKP 11 55.40 -0 8
PRU 144.81 351 ePKP 11 58.10 1.4
e 12 08.10
SNF 144.85 3 PKPd 11 56.60 -0.1
DOU 145 28 2 PKPc 11 58.10 0.7
GRF 145.51 355 ePKP 11 58.00 0.1
Z 21s 0.10um 4.6Msz
id 12 01.50
id 12 04.40
WLF 145.74 0 PKP 12 01.00 2.8X
KHC 145.79 352 ePKP 11 59.50 1.1
0.9s 8.00nm
e 12 05.50
e 12 17.00
GEC2 146.05 352 PKPd 11 59.40 0.4
0.8s 1.79nm
e 12 03.80
e 12 08.60
ZST 146.08 347 ePKP 12 01.00 2.1
FLN 146.15 8 ePKP 11 57.10 -1.9
1.0s 16.80nm
LDF 146.36 8 ePKP 11 57.40 -1.9
GRR 146.46 9 ePKP 11 58.10 -1.4
1.3s 41.90nm
SOP 146 68 348 ePKP 12 02.30 2.5X
LPF 146.78 9 ePKP 11 59.40 -0.6
1.4s 61.85nm
CDF 146.99 359 ePKP 12 00.10 -0.4
0 9s 17.70nm
HAU 147.40 0 ePKP 12 01.40 0.4
0.9s 25.05nm
BSF 147.58 360 ePKP 12 01.50 0.1
0.8s 7.95nm
KBA 147.83 351 i(PKP)12 04.80 2.8X
0.8s 7.40nm
i 12 16.90
MOTA 147.84 354 iPKPc 12 04.30 2.4X
1.0s 20.20nm
WTTA 147 87 353 iPKPc 12 03.60 1.6
0.6s 13.00nm
i 12 05.80
i 12 13.60
LOR 148.06 3 ePKP 12 03.20 1.1
0.9s 13.60nm
SSF 148.25 4 ePKP 12 03.80 1.4

1.1s 33.20nm
MFF 148.31 9 ePKP 12 04.60 2.1X
1.2s 29.15nm
LBF 148.35 3 ePKP 12 04.00 1.4
1.1s 25.40nm
FVI 148.39 352 PKP 12 08.40 5.8X
RBL 148.42 351 PKP 12 05.70 2.9X
PTJ 148.50 347 ePKP 12 03.40 0.4
AVF 148.51 4 ePKP 12 04.10 1.3
1.0s 22.40nm
LJU 148.64 349 e(PKP)12 05.50 2.4X
SMF 148.68 4 ePKP 12 04.70 1.6
1.0s 20.00nm
BGF 148.70 5 ePKP 12 04.90 1.8
1.0s 25.80nm
VOY 148.76 350 ePKP 12 06.90 3.5X
LSF 148.87 7 ePKP 12 04.80 1.4
1.0s 20.80nm
TCF 148.91 6 ePKP 12 05.20 1.7
1.3s 26.35nm
CEY 148.96 349 e(PKP)12 08.60 5.0X
MAF 149.01 5 ePKP 12 05.70 2.1
1.0s 20.00nm
CSS 149.01 314 ePKP 12 06.70 2.7X
VBY 149.02 348 e(PKP)12 04.50 0.8
CTI 149.07 353 PKP 12 08.50 4.6X
VAI 149.49 357 PKP 12 09.70 5.4X
RJF 149.81 7 ePKP 12 07.70 2.8X
1.2s 21.40nm
LPL 149.89 360 ePKP 12 09.00 3.7X
1.0s 17.80nm
LPG 149.91 360 ePKP 12 09.10 3.7X
1.0s 21.20nm
LFF 150.06 8 ePKP 12 09.50 4.3X
1.3s 41.15nm
CAF 150.24 6 ePKP 12 09.10 3.5X
SRS 150.34 333 ePKP 12 12.21 6.4X
LPO 150.38 8 ePKP 12 09.20 3.5X
0.8s 10.35nm
SKO 150.49 337 ePKP 12 12.00 6.0X
BOB 150.54 356 PKP 12 16.20 10.1X
KNT 150.60 334 ePKP 12 11.16 5.0X
VAY 150.60 335 ePKP 12 11.00 4.8X
CKI 150.95 357 PKP 12 12.80 6.2X
RSM 151.04 351 PKP 12 13.20 6.5X
SFI 151.13 352 PKP 12 13.80 7.0X
BDI 151.14 354 PKP 12 15.70 8.7X
PGD 151.20 352 PKP 12 14.00 6.8X
FIR 151.35 353 ePKP 12 14.00 6.8X
ARV 151.39 350 PKP 12 12.80 5.5X
CRE 151.41 352 PKP 12 15.50 8.1X
OHR 151.48 337 ePKP 12 12.70 5.1X
FNA 151.54 336 ePKP 12 13.52 5.8X
SBF 151.54 359 ePKP 12 11.70 4.1X
1.2s 26.50nm
LIT 151.66 334 ePKP 12 13.60 5.8X
ASS 151.85 350 PKP 12 16.70 8.6X
FRF 151.85 360 ePKP 12 11.40 3.4X
1.2s 15.45nm
LRG 151.96 0 ePKP 12 11.20 3.1X
1.1s 16.10nm
LMR 152.08 0 ePKP 12 12.00 3.7X
1.1s 15.65nm
AGG 152.61 333 ePKP 12 15.04 5.8X
PGF 152.78 356 ePKP 12 13.40 3.9X
1.1s 15.65nm
BCAO 164.00 229 ePKPd 12 24.00 0.7
1.0s 5.00nm
S.D. = 1.2 on 65 of 110 obs.

% MAY 23, 1993 20h 01m 54.89± 0.71s
47.096 N ± 6.8km 0.031 E ± 8.7km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.0 (LDG).

MFF 0.51 194 Pg 02 05.40 0.2
Sg 02 12.40
LPF 1.18 323 Pg 02 16.60 -0.4
Sg 02 31.90
LSF 1.33 129 Pg 02 18.00 -1.5
Sg 02 35.80
LDF 1.50 356 Pg 02 21.50 -0.4
Sg 02 38.60
FLN 1.70 349 Pg 02 25.30 0.5
Sg 02 45.80
TCF 1.70 118 Pg 02 25.20 0.4
Sg 02 46.00
MAF 1.95 116 Pg 02 29.90 1.5
Sg 02 53.30
BGF 2.01 105 Pg 02 28.80 -0.4
Sg 02 54.20
S.D. = 1.0 on 8 of 8 obs.

? MAY 23, 1993 20h 28m 04.94± 5.08s
45.702 N ±86.6km 154.422 E ±63.6km
DEPTH = 33.0km (normal)
4.4mb (2 obs.)
EAST OF KURIL ISLANDS (222)

KUSJ 7.43 253 eP 29 51.50 -2.2
eS 31 07.90
ASAJ 8.51 263 eP 30 09.20 0.4
LZH 38.85 274 eP 35 29.00 0.2
1.0s 15.00nm 4.7mb
GUN 56.01 277 P 37 43.40 0.3
KKN 56.50 277 P 37 47.40 0.9
PKI 56.55 277 P 37 47.90 1.0
DMN 56.74 277 P 37 49.00 0.8
GKN 56.82 278 P 37 49.30 0.6
NB2 69.51 342 P 39 10.70 -1.1
0.7s 1.10nm 4.0mb
CLL 77.79 336 e(P) 39 59.00 -1.0
S.D. = 1.2 on 10 of 10 obs.

? MAY 23, 1993 21h 50m 16.51± 3.33s
48.348 N ±24.0km 7.710 E ±18.6km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 1.5 (LDG).

CDF 0.30 283 Pg 50 23.00 0.3
Sg 50 27.40
FEL 0.51 157 ePg 50 26.91 0.0
BSF 0.80 230 Pg 50 32 80 0.6
Sg 50 45.70
HAU 0.97 250 Pg 50 34.20 -0.8
Sg 50 49.80
S.D. = 1.1 on 4 of 4 obs.

% MAY 23, 1993 22h 07m 11.99± 2.22s
41.391 N ±18.1km 23.106 E ± 6.7km
DEPTH = 10.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)

KNT 0.28 214 ePg 07 17.76 -0.1
eSg 07 23.40
VAY 0.41 260 iPg 07 20.70 0.3
iSg 07 26.00
SRS 0.46 127 ePg 07 20.60 -0.7
eSg 07 30.30
SOH 0.60 162 iPg 07 23.96 -0.2
eSg 07 36.92
GRG 0.69 231 ePg 07 25.04 -0.6
eSg 07 36.20
THE 0.77 188 iPg 07 27.00 0.1
eSg 07 41.00
OUR 1.25 148 ePb 07 36.24 1.1
eSb 07 55.36
S.D. = 0.7 on 7 of 7 obs.

• MAY 23, 1993 23h 03m 50.91± 2.43s
35.299 N ±20.7km 2.349 W ±10.8km
DEPTH = 10.0km (geophysicist)
STRAIT OF GIBRALTAR (385)
mbLg 3.1 (MDD). Felt (III) on the Chofarinos Islonds, Spain.

EMEL 0.50 270 iPgd 04 00.69 -0.3
eSg 04 07.40
ENIJ 1.67 4 iPnd 04 20.06 -0.3
eSn 04 41.50
EGUA 1.82 328 iPnd 04 21.04 -1.5
eSn 04 45.30
MAL 2.20 311 ePn 04 25.00 -2.9X
iSg 04 56.00
ECOG 2.21 334 iPnc 04 28.45 0.2
eSn 04 53.90
EHUE 2.52 356 iPnd 04 33.98 1.4
eSn 05 04.20
EALH 2.66 16 ePn 04 34.70 0.1
ELUQ 2.74 326 iPnd 04 36.96 1.2
EJIF 2.78 295 ePn 04 37.15 0.8
eSn 05 08.40

23d 23h

```
PLAT     2.89 287 eP     04 39.00    1.1
LIJA     2.95 304 eP     04 39.50    0.8
ALJ      2.97 298 eP     04 39.00   -0.1
CNIL     3.19 291 eP     04 42.00   -0.1
EVIA     3.34 358 iPnc   04 45.89    1.6
                  eSn    05 24.00
EHOR     3.43 318 iPnd   04 44.40   -1.1
                  eSn    05 23.40
ACU      3.56  25 iPnc   04 47.24   -0.2
                  eSn    05 30.00
EVAL     4.22 304 iPnd   04 54.81   -1.8
                  eSn    05 41.00
ECHE     4.42  14 ePn    05 00.65    1.0
                  eSn    05 50.50
ETOR     5.52   2 ePn    05 15.06   -0.1
                  eSn    06 16.00
GUD      5.52 346 iPnd   05 14.79   -0.5
EPF      8.00  14 Pn     05 50.00    0.0
LPO      9.76  15 Pn     06 13.90   -0.3
LFF      9.91  13 Pn     06 15.30   -1.1
CAF     10.19  18 Pn     06 20.20   -0.1
MFF     11.41   8 Pn     06 35.80   -1.1
     S.D. = 1.0  on  24 of  25 obs.
-------------------------------------
*  MAY  23, 1993  23h 39m 17.27± 2.03s
   35.393 N ±17.6km    2.352 W ±10.3km
   DEPTH =   7.7 ±  4.3 km
 STRAIT OF GIBRALTAR                (385)
      mbLg 2.8 (MDD). Felt (III) on
      the Chaforinas Islands, Spain.

EMEL     0.50 260 iPgd   39 26.00   -1.4
ENIJ     1.58   4 iPnc   39 45.30   -0.4
ECOG     2.12 333 ePn    39 54.00    0.4
                  eSn    40 22.00
MAL      2.14 309 ePn    39 51.50   -2.2
                  iSg    40 15.50
EHUE     2.43 355 ePn    39 59.00    1 0
                  eSn    40 30.00
ELUQ     2.66 325 ePn    40 02.20    1.0
                  eSn    40 34.00
EJIF     2.74 294 ePn    40 02.50    0.1
EPRU     2.81 305 ePn    40 04.00    0.6
                  eSn    40 37.00
PLAT     2.86 286 eP     40 06.00    1.8
LIJA     2.90 302 eP     40 06.00    1.3
ALJ      2 93 297 eP     40 06.00    0.9
EVIA     3.24 358 ePn    40 10.90    1.3
                  eSn    40 49.50
EHOR     3.36 317 iPnd   40 09.50   -1.7
EVAL     4.16 303 ePn    40 21.80   -0.7
ETOR     5 42   2 ePn    40 40.00   -0.5
EPF      7.91  14 Pn     41 14.90   -0.5
LPO      9.67  15 Pn     41 38.50   -1.2
CAF     10.10  18 Pn     41 44.70   -1.0
PGF     11.36  48 Pn     42 03.80    0.9
     S.D. = 1.3  on  19 of  19 obs.
-------------------------------------
   MAY  23, 1993  23h 57m 48.45± 0.52s
   31.527 N ± 7.8km    98.637 E ± 7.2km
   DEPTH =  33.0km  (normoi)
   4.7mb ( 20 obs.)
 XIZANG                             (306)

LZH      6.28  42 Pd     59 20.00   -1.4
     Z  10s      3.47um
                 Lg     00 47.00
                 e      00 57.00
KMI      7.33 149 Pc     59 37.00    0 9
       1.0s     60.00nm          5.5mb
                 S      01 03.00
                 pP     59 40.50
                 sS     59 43.50
GUN     11.66 255 P      00 34.60   -1.3
PKI     12.17 254 P      00 41.00   -1.8
KKN     12.20 256 P      00 41.00   -2.0
DMN     12.41 255 P      00 44.00   -1.8
BJI     16.55  54 eP     01 43.00    3 4X
       1.4s     24.00nm          4.1mb
     Z  16s      1.46um          3.8Msz
     N  10s      1.02um
ZAK     19.16   9 eP     02 10.00   -1.6
       0.9s     13.00nm          4.2mb
SSE     19.27  85 Pc     02 12.50   -0.7
       1.0s     11.00nm          4.1mb
     Z  10s      1.40um          4.7Msz
                 S      05 56.00

PRZ     19 47 310 iPc    02 16.00    0.5
       1.0s     70.00nm          4.9mb
MOY     20.21   4 eP     02 12.00 -11.1X
TLG     20.49 311 iPc    02 28.40    2.2
       1.8s     75.00nm          4.8mb
     Z  12s      0.40um          4.0MszX
                 eS     06 20.00
                 eSS    06 44.00
FRU     22.14 307 eP     02 43.00    0.2
       2.0s    100.00nm          4.9mb
                 e      03 18.40
HYB     23.00 237 ePd    02 53.00    1.6
       1.0s     50.00nm          5.0mb
CIT     23.22  24 eP     02 55.00    1.7
ELT     23.49 341 eP     02 56.20    0.4
       1.7s     65.00nm          4.9mb
                 eS     07 10.00
GBA     26 40 232 P      03 25.30    1.5
       1.2s      2.00nm          3.6mb X
MAIO    32 68 289 eP     04 25.00    5.1X
NRI     38.39 354 eP     05 07.00   -0.9
       1.4s     12.00nm          4.5mb
GRS     42.81 296 eP     05 47.00    2 0
       1.1s     20.00nm          4.8mb
PYA     44.88 303 eP     06 05.00    3.5X
     Z  14s      1.00um          4.9MszX
KIV     45.15 302 ePDIFc 06 11.25    7.4X
                 ipPc   07 04.06 250kmX
OBN     49 01 318 eP     06 34.00    0.3
KAF     54.47 327 eP     07 14.30   -0.4
       0.9s      7.10nm          4.7mb
NUR     55.34 325 eP     07 14.80   -6 2X
       0 8s      4.20nm          4.5mb
ILT     58.47  26 eP     07 49.00    5.8X
HFS     60.78 325 eP     07 57.60   -1 5
       0.4s      0.90nm          4.2mb
     Z  19s    135.00um          7.1Msz
                 LR     33 48.00
WRA     61.58 141 P      08 04.60   -0.4
       0.7s      3.10nm          4.5mb
WB2     61 59 141 iPc    08 04.30   -0.8
       0.8s     10.60nm          5.0mb
NB2     61.76 327 P      08 04.70   -1.1
       0.7s      2.20nm          4.4mb
BRG     63.09 315 e(P)   08 15.00    0 3
CLL     63.52 316 e(P)   08 18.00    0.4
GEC2    63 87 313 ePc    08 20.40    0.4
       0.9s      1.36nm          4.1mb
                 e      08 35.20
BSF     68.53 314 eP     08 53.00    3.2X
EKA     70.90 324 P      09 05.00    1.0
       1.7s     10.50nm          4.6mb
BCAO    79.26 269 iPc    09 55.00    2.5
       1.6s     26.00nm          5.0mb
     S.D. = 1.4  on  28 of  36 obs.
-------------------------------------
*  MAY  24, 1993  00h 05m 58.19± 0.82s
   35.518 N ± 7.5km    2.891 W ±16.5km
   DEPTH =  10.0km  (geophysicist)
 STRAIT OF GIBRALTAR                (385)
      mbLg 3.0 (MDD).

EMEL     0.22 194 ePg    06 03.00    0.0
                 eSg    06 09.00
EGUA     1.42 338 ePn    06 24.00   -0.1
                 eSn    06 45.00
ENIJ     1 55  21 ePn    06 22.60   -3.3X
                 eSn    06 41.50
EHUE     2.31   6 eP     06 37.02    0.1
                 e      07 07.10
SBF     11 51  41 eP     08 58.00   12.4X
PGF     11.60  49 eP     08 53.90    7.0X
       1.5s     20.35nm          5.2mb
AVF     12.20  21 eP     09 04.10    9.3X
SMF     12.22  22 eP     09 04.60    9.5X
LPG     12.37  33 eP     08 57.40    0.0
       0.8s      5.10nm          4.8mb
LPL     12.37  33 iPd    08 57 30   -0.1
       0.8s      7.10nm          5.0mb
     S.D. = 0.1  on   5 of  10 obs.
-------------------------------------
?  MAY  24, 1993  00h 14m 52.84± 1.12s
   20.767 S ±67.3km  179.367 W ±12.5km
   DEPTH = 652.9 ± 28.9 km
   4.9mb (  9 obs.)
 FIJI ISLANDS REGION                (181)

VUN      3.42 323 eP     16 18.10   -0.9
DZM     13.28 262 iPc    17 46.10    2.2
AFR     28.12  89 iPc    20 11.40   13.6X
       1.4s     281.40nm
PPT     28.30  89 iPc    20 13.30   13.9X
       1.6s     263.70nm
PMO     30.46  84 iPc    20 17.80    0.2
       1.4s      81.00nm          5.2mb
VAH     30.65  85 iPc    20 19.00   -0.1
       1.0s      38.80nm          5.0mb
TPT     30.72  84 iPc    20 20.00    0.2
       0.9s      40.60nm          5.0mb
RUV     30.89  85 iPc    20 21.40    0.2
       1.0s      65.60nm          5.2mb
CTA     32.19 265 iPd    20 32.90    0.7
       1.0s      20.00nm          4.7mb
OLP     33.76 253 iPd    20 44.30   -0.8
STK     36.52 244 iPd    21 06.60   -1.2
       0.5s      7.30nm          4.5mb
ASPA    43.21 257 iPd    22 00.80   -0.4
       0.5s     34.10nm          5.0mb
                 iS     27 42.80
WB2     43.28 263 iPc    22 01.40   -0.3
       0.7s     29.30nm          4.8mb
                 eScP   27 43.10
                 eS     27 47.40
WRA     43.29 263 P      22 01.90    0.1
       0.6s     11.60nm          4.5mb
WARB    49.53 253 eP     22 42.00   -6.7X
HFS    139.59 350 ePKP   33 05.70   -3.4X
       0.3s      0.80nm
CLL    148.01 345 iPKP   33 32.80    9.2X
PRU    148.82 343 ePKP   33 35.00   10.1X
GEC2   150.09 343 ePKP   33 37.10   10.1X
       0 8s      1.29nm
                 e      33 48.20
GIB    159.29 329 PKP    33 50.00   10.7X
                 eSg    33 52.10
     S.D. = 1.0  on  12 of  20 obs.
-------------------------------------
?  MAY  24, 1993  00h 25m 29.45± 5.81s
   41.378 N ±42.9km    23.041 E ±10.4km
   DEPTH =  10.0km  (geophysicist)
 GREECE-BULGARIA BORDER REGION      (363)

KNT      0.24 207 ePg    25 34.88    0.3
                 eSg    25 39.64
SOH      0.60 157 ePg    25 41.08   -0.6
                 eSg    25 50.48
GRG      0.64 229 ePg    25 42.16   -0.2
                 eSg    25 52.32
THE      0.75 184 ePg    25 44.00   -0.1
                 eSg    25 55.92
OUR      1.26 145 ePb    25 53.32    0.4
     S.D. = 0.6  on   5 of   5 obs.
-------------------------------------
%  MAY  24, 1993  00h 48m 18.31± 0.64s
   44.340 N ± 5.8km    7.348 E ± 6.7km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                     (545)
      ML 1.7 (GEN).

STV      0.10 190 P      48 21.11    0.0
                 S      48 22.71
ENR      0.12 155 P      48 21.73    0.3
                 S      48 23.53
PZZ      0.24 313 P      48 23.76    0.2
                 S      48 27.15
ROB      0.38  97 P      48 26.69    0.6
                 S      48 32.55
BHB      0.51 353 P      48 28.29   -0.3
                 S      48 35.66
IMI      0.58 138 P      48 29.57   -0.5
                 S      48 37.17
FIN      0.63 102 P      48 30.76   -0.3
                 S      48 39.92
     S.D. = 0.5  on   7 of   7 obs.
-------------------------------------
%  MAY  24, 1993  01h 49m 22.81± 1.15s
   38.007 N ±17.9km    14.198 E ± 6.5km
   DEPTH =  10.0km  (geophysicist)
 SICILY                             (398)

GIB      0.14 263 P      49 24.70   -1.4
                 eSg    49 26.70
MNO      0.40 101 P      49 31.10    0.0
                 eSg    49 38.80
```

ATN	1.01	81	P	49	42.20	0.3
MEU	1.08	147	P	49	42.80	-0.3
CVT	1.16	254	P	49	45.90	1.4

S.D. = 1.5 on 5 of 5 obs.

MAY 24, 1993 01h 53m 00.93± 0.34s
31.691 S ± 5.1km 69.531 W ± 6.4km
DEPTH = 121.2 ± 4.7 km
SAN JUAN PROVINCE, ARGENTINA (137)
MD 4.3 (SAN).

RTBS	0.07	66	iPd	53	17.50	-0.4
RTCB	0.66	72	iPd	53	20.50	0.1
ZON	0.74	79	iPc	53	21.20	0.1
			eS	53	35.20	
RTCV	0.86	102	iPc	53	22.50	0.4
RTLL	0.98	69	e(P)	53	22.50	-0.7
CFA	1.10	86	iPd	53	25.00	0.5
MDZ	1.32	154	iP	53	28.30	1.5
JACH	1.34	222	iP	53	27.19	0.1
			iS	53	46.89	
RTRS	1.52	2	ePd	53	30.30	1.3
PEL	1.75	214	iP	53	31.80	0.0
			iS	53	54.68	
FCH	1.75	201	iP	53	33.34	1.1
			iS	53	57.73	
ROCH	1.79	224	iP	53	31.96	-0.6
			iS	53	55.10	
SAN	2 00	208	iP	53	35.11	0.2
			iS	54	01.46	
PCH	2.10	203	iP	53	36.71	0.5
			iS	54	04.62	
TACH	2 29	211	iP	53	38.11	-0.5
			iS	54	06.99	
CHCH	2 43	203	iP	53	40.47	0.0
			iS	54	11.21	
LCCH	2.48	224	iP	53	40.15	-0.8
			iS	54	08.52	
LNV	2.76	215	iP	53	43.02	-1.7
			iS	54	15.31	
RFA	3 20	164	iPc	53	50.40	-0.2
			(S)	54	23.20	
MRA	3 32	103	iPc	53	52 30	0.1
CYA	4.58	46	iPd	54	07.50	-1.8
			S	54	50.50	
FSA	6.38	30	eP	54	33.00	-0.8
CCH	14 57	13	P	56	26 80	4 0X
CNCB	14.88	6	P	56	28.70	1.8
LPB	15.15	5	P	56	32.00	1.9
ZOBO	15.41	5	P	56	32.10	-1.4
SIV	17.43	28	P	56	56 50	-1.4
PPD	18.87	64	eP	57	13.20	-1.1
LIC	72.03	71	P	04	14.20	0.5
TIC	72.28	70	P	04	15.80	0.6
KIC	72.34	71	P	04	16.00	0.4
GBA	144.79	113	PKP	12	25.80	0.3
	0.6s		3.00nm			

S.D. = 1.0 on 31 of 32 obs.

? MAY 24, 1993 02h 55m 51.16± 4.49s
35.466 S ±37.0km 70.697 W ±19.6km
DEPTH = 5.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)
MD 3.9 (SAN).

CHCH	1.53	1	iP	56	17.92	-1.3
			iS	56	37.55	
LNV	1.62	338	iP	56	19.76	-0.6
			iS	56	40.22	
TACH	1.82	354	iP	56	22.93	-0.5
			iS	56	45.19	
PCH	1.85	5	iP	56	23.43	-0.4
			iS	56	47.34	
RFA	1.96	70	iPd	56	26.20	0.8
			S	56	50.50	
SAN	2.01	1	iP	56	25.73	-0.4
LCCH	2.11	340	iP	56	27.77	0.2
			iS	56	54.37	
FCH	2.16	9	iP	56	29.25	0.6
PEL	2.32	0	iP	56	31.67	1.0
ROCH	2.50	354	iP	56	34.08	0.7
			iS	57	05.66	
JACH	2.78	2	iP	56	38.35	1.1
MDZ	3.00	31	i(P)	56	47.30	7.0X
RTBS	3.93	16	e(P)c	56	57.80	4.3X
RTCB	4.27	22	ePc	57	02.00	3.5X
TCA	6.56	53	ePc	57	29.50	-1.2

S.D. = 0.9 on 12 of 15 obs.

? MAY 24, 1993 03h 18m 08.77± 0.92s
42.871 N ± 6 6km 12.833 E ±14.1km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ASS	0.24	328	P	18	14.40	0.5
			eSg	18	18.40	
MNS	0.50	193	Pc	18	18.50	-0.4
			eSg	18	25.70	
ARV	0.63	7	P	18	20.90	-0.6
			eSg	18	31.00	
AQU	0.67	141	P	18	22.50	0.4

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

MAY 24, 1993 03h 34m 40.67± 1.30s
31.311 S ±14.0km 70.402 W ±13.0km
DEPTH = 142.5 ± 14.0 km
CHILE-ARGENTINA BORDER REGION (127)
MD 4.0 (SAN).

RTBS	0.88	114	iPc	35	03.70	-0 3
JACH	1.38	187	iP	35	08.64	-0.2
			iS	35	26.87	
RTCB	1.38	98	ePc	35	08.50	-0.3
ZON	1.49	99	eP	35	10.40	0.4
			eS	35	27.40	
RTLL	1.65	91	ePc	35	11.70	-0.1
ROCH	1.73	197	iP	35	12.65	-0.2
			iS	35	35.04	
PEL	1.84	187	iP	35	13.83	-0.1
			iS	35	36.27	
CFA	1.87	100	iPd	35	14.50	0.2
			S	35	35.20	
FCH	2.01	177	iP	35	17.00	0.7
			iS	35	41.41	
SAN	2.15	186	iP	35	17 60	0 0
			iS	35	43.21	
PCH	2.30	182	iP	35	20 27	0.7
			iS	35	47.42	
LCCH	2.37	204	iP	35	20.43	0.1
TACH	2.38	191	iP	35	20.28	-0.1
			iS	35	48.59	
CHCH	2.62	185	iP	35	23.51	0.0
			iS	35	54.31	
LNV	2.77	198	iP	35	24.66	-0.7
			iS	35	56.05	
CYA	4.92	56	ePd	35	54.20	0.4
			S	36	48.50	
TCA	4.97	92	iPd	35	53.90	-0.7
			S	36	45.50	

S.D. = 0.4 on 17 of 17 obs.

MAY 24, 1993 03h 49m 03.63± 0.78s
41.374 N ± 7.7km 20.806 E ± 7.8km
DEPTH = 10.0km (geophysicist)
ALBANIA (391)
ML 2.4 (SKO).

OHR	0.26	181	iPg	49	09.90	0.7
			iSg	49	15.00	
PHP	0.41	319	iPgd	49	13.10	1.0
			iSg	49	20.10	
TIR	0.71	268	ePg	49	20.80	3.2X
			iSg	49	33.30	
FNA	0.73	144	ePg	49	16.16	-1.9
SKO	0.76	38	iPg	49	17.50	-1.0
			iSg	49	26.00	
LACI	0.86	288	ePg	49	19.50	-0.7
GRG	1.27	109	ePg	49	28.50	1.2
			eSg	49	39.00	
VAY	1.33	92	eP	49	25.30	-2.8X
KNT	1.59	97	ePg	49	36.00	4.1X
			eSg	49	52.20	
THE	1.79	114	ePg	49	36.10	1.3
LIT	1.80	134	ePg	49	34.50	-0.5
SOH	2.00	105	ePb	49	40.90	3.0X

S.D. = 1.4 on 8 of 12 obs.

? MAY 24, 1993 03h 53m 15.91± 3.18s
21.853 S ±22.4km 68.283 W ±31.6km
DEPTH = 130.0km (geophysicist)
CHILE-BOLIVIA BORDER REGION (124)

MOCB	2.53	77	P	53	58.30	0.7
YJA	2.60	97	iPc	53	58.00	-0.4
HJA	2.99	118	ePc	54	02.90	-0.1
CCH	4.88	25	eP	54	28.00	-0.8
CNCB	5.02	3	P	54	31.80	1.0
LPB	5.29	2	eP	54	35.00	0.6
ZOBO	5.56	2	P	54	37.00	-1.1

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

? MAY 24, 1993 04h 36m 02.35± 3.47s
31.149 S ±72.9km 68.657 W ±20.1km
DEPTH = 100.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.24	138	ePc	36	17.20	0.0
RTCB	0.36	200	ePd	36	17.60	0.0
CFA	0.58	142	ePc	36	19.00	0.0
			S	36	31.70	
RTBS	0.85	233	e(P)c	36	21.40	0.0
			S	36	35.30	

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

MAY 24, 1993 05h 02m 28.72± 0.21s
28.835 N ± 3.9km 96.082 E ± 3.8km
DEPTH = 33.0km (normal)
5.0mb (52 obs.) 4.6Msz (5 obs)
EASTERN XIZANG-INDIA BORDER REG.(313)

KMI	7.00	120	Pnd	04	12.00	0.3
Z	10s		6.50um			
			Pg	04	21.50	
			eSn	05	28.00	
			Sg	05	44.00	
KKN	9.58	266	P	04	46.00	-1.6
LZH	9.76	40	iPc	04	50.00	0.0
Z	16s		3.28um			
E	11s		2.55um			
			e	04	56.50	
			eS	06	41.00	
			Lg	07	30.00	
			e	07	46.00	
CHTO	10.31	165	iPd	04	58.40	0.9
	1.2s		67.01nm		5.8mb	
NST	13.62	163	eP	05	42.00	0.0
KHT	14.17	170	eP	05	52.30	3.1X
NDI	16.55	274	eP	06	16.00	-3.9X
	0.5s		14.08nm		4.3mb	
HYB	19.70	239	eP	06	57.50	-0.8
	1.0s		30.00nm		4.5mb	
			eS	10	53.00	
PRZ	19.74	318	eP	06	59.00	0.2
Z	16s		1.16um			
BJI	19.94	51	eP	06	59.00	-1.7
Z	14s		1.18um			
N	10s		1.02um			
			eS	10	44.00	
TLG	20.81	319	iPc	07	11.40	1.6
	1.8s		73.00nm		4.8mb	
Z	14s		3.20um		4.8MszX	
E	14s		1.13um			
			eS	11	06.00	
			eSS	11	45.00	
SSE	21.86	78	Pc	07	20.50	0.2
	1.0s		11.00nm		4.2mb	
Z	14s		0.90um		4.3MszX	
N	12s		0.30um			
			PPP	08	00.70	
			S	11	22.00	
ZAK	22.20	12	iPc	07	24.80	1.2
	1.2s		123.00nm		5.2mb	
Z	13s		1.27um		4 5MszX	
N	14s		1.05um			
			eS	11	27.00	
FRU	22.23	315	iP	07	25.00	1.0
	2.0s		180.00nm		5.2mb	
Z	14s		1.50um		4.6MszX	
E	14s		1.50um			
POO	22.76	248	eP	07	33.50	4.1X
GBA	23.01	233	P	07	33.00	1.2
			S	11	44.00	
MOY	23.12	8	eP	07	34.00	1.5
	1.4s		56.00nm		4.9mb	
IRK	24.20	12	iP+	07	44.00	0.9
	1.6s		100.00nm		5.1mb	
			e	07	53.80	
OUE	25.36	280	eP	07	56.60	1.9
ELT	25.44	346	iPc	07	57.30	2.4
	1.0s		125.00nm		5.5mb	
CIT	26.57	25	eP	08	05.80	0.3

24d 05h

MAIO	31.58	293	iPc	08	50.50	-0.1
			eS	14	08.00	
BOD	31.64	18	iPc	08	49.50	-1.2
	1.3s		21.00nm			4.8mb
YAK	39.86	24	eP	10	02.00	1.5
	1.2s		45.00nm			5.1mb
NRI	40.86	356	iPc	10	08.90	0.2
	1.5s		52.00nm			5.0mb
			e	10	18.00	
			e	11	49.00	
TIK	46.46	14	iPc	10	53.00	-0.9
	1.6s		52.00nm			5.2mb
Z	12s		0.50um			4.7MszX
			e	11	01.00	
			e	12	50.00	
			e	17	50.00	
MGD	48.00	33	eP	11	05.00	-1.2
	0.9s		30.00nm			5.3mb
MOS	49.06	320	eP	11	15.00	0.6
	1.5s		90.00nm			5.6mb
			e	11	21.00	
			e	11	27.00	
OBN	49.56	319	ePd	11	18.00	-0.2
	1.4s		60.00nm			5.4mb
Z	20s		0.80um			4.7Msz
E	20s		0.60um			
			e	11	30.00	
MNK	54.77	318	eP	11	56.00	-1.2
KAF	55.52	328	iP	12	02.10	-0.5
	0.9s		9.50nm			4.8mb
KEV	56.02	337	eP	12	06.00	-0.1
	1.0s		24.00nm			5.2mb
NUR	56.28	326	eP	12	07.90	-0.2
	0.4s		3.50nm			4.7mb
SPC	59.81	313	eP	12	34.20	1.0
UPP	59.81	325	iP	12	32.40	-0.4
OJC	59.91	314	eP	12	33.20	-0.4
WRA	60.96	138	P	12	41.00	-0.1
	0.5s		11.90nm			5.3mb
WB2	60.97	138	iPc	12	40.40	-0.8
	0.6s		32.30nm			5.6mb
OHR	61.14	303	eP	12	37.50	-4.7X
HFS	61.73	326	eP	12	45.30	-0.6
	0.4s		13.00nm			5.4mb
Z	15s		187.00um			7.4MszX
			LR	39	07.00	
ILT	61.85	25	iPc	12	45.00	-1.6
	1.2s		24.00nm			5.2mb
NB2	62.78	327	P	12	52.10	-0.9
	0.5s		6.80nm			5.0mb
PRU	63.27	314	iPc	12	56.20	0.0
	1.1s		13.60nm			5.0mb
Z	18s		0.40um			4.6Msz
BRG	63.43	315	iPc	12	57.00	-0.3
	1.0s		14.00nm			5.0mb
ASPA	63.64	141	iPd	12	58.70	-0.3
	0.5s		11.60nm			5.2mb
CLL	63.90	316	e(P)	13	00.00	-0.4
GEC2	64.08	313	ePc	13	01.80	0.0
	0.5s		3.05nm			4.7mb
			e	13	09.50	
			e	13	13.30	
			e	13	16.00	
MOX	64.92	316	eP	13	07.10	0.0
	1.6s		21.00nm			5.0mb
Z	20s		0.30um			4.5Msz
GRF	65.42	315	eP	13	11.00	0.7
	1.4s		26.00nm			5.1mb
Z	20s		0.40um			4.6Msz
SFI	66.71	308	P	13	19.10	0.6
PGD	66.81	308	P	13	20.00	0.5
CDF	68.29	314	eP	13	28.20	-0.4
	1.1s		12.95nm			4.9mb
WLF	68.57	316	Pc	13	31.00	0.9
PCP	68.76	310	P	13	30.51	-1.0
BSF	68.79	314	eP	13	31.20	-0.5
	1.3s		16.25nm			4.9mb
FIN	69.10	310	P	13	32.12	-1.5
PGF	69.13	308	iPc	13	33.40	-0.5
	1.1s		11.70nm			4.9mb
LSD	69.37	311	P	13	35.32	-0.2
IMI	69.42	309	P	13	35.23	-0.4
BHB	69.51	311	P	13	34.86	-1.2
LPG	69.62	311	iPc	13	37.20	0.1
	0.9s		7.85nm			4.8mb
LPL	69.62	311	iPc	13	37.20	0.2
	0.7s		8.25nm			4.9mb
SBF	69.74	310	iPc	13	37.20	-0.4
	1.0s		11.00nm			4.9mb
RRL	69.80	311	P	13	37.52	-0.6
LMR	70.56	309	eP	13	42.00	-0.5
	1.4s		22.65nm			5.0mb
LBF	70.87	314	eP	13	43.70	-0.7
SMF	71.09	313	eP	13	45.20	-0.5
	1.2s		16.65nm			5.0mb
SSF	71.14	314	iPc	13	45.70	-0.3
	1.0s		17.80nm			5.1mb
AVF	71.34	314	eP	13	46.90	-0.3
IMA	71.68	24	eP	13	48.38	-0.7
	1.2s		8.16nm			4.6mb
EKA	71.74	324	Pc	13	49.60	0.2
	0.9s		8.90nm			4.8mb
TCF	72.27	313	iPc	13	52.90	0.2
	1.3s		23.85nm			5.0mb
LDF	72.79	316	eP	13	55.50	-0.2
	1.3s		31.05nm			5.1mb
MBC	72.86	8	eP	13	56.00	0.4
	1.0s		3.00nm			4.2mb
CAF	72.90	312	eP	13	57.00	0.5
	1.1s		8.05nm			4.6mb
RJF	73.10	313	eP	13	58.20	0.6
	1.0s		9.00nm			4.7mb
Z	20s		0.13um			4.2Msz
GRR	73.32	316	iPc	13	58.90	0.1
	0.7s		5.20nm			4.6mb
LPF	73.58	316	eP	14	01.60	1.3
STK	74.28	141	eP	14	04.50	0.0
	0.8s		2.90nm			4.3mb
FBA	74.38	23	eP	14	04.47	-0.2
	1.4s		35.14nm			5.2mb
BCAO	76.97	268	iPd	14	20.00	-0.3
	0.8s		11.00nm			4.9mb
			id	14	36.10	
KLU	77.09	26	eP	14	20.10	-0.1
			e	14	27.94	
BALM	78.73	25	eP	14	29.35	0.1
			e	14	37.24	
LSZ	78.87	246	iP	14	31.20	0.5
ARMA	79.22	134	iPc	14	34.20	1.9
	0.7s		7.00nm			4.8mb
FRB	86.93	353	eP	15	03.00	-8.2X
FCC	92.33	5	eP	15	44.50	7.9X
PPD	149.85	275	ePKP	22	18.30	5.8X

S.D. = 0.8 on 81 of 88 obs.

? MAY 24, 1993 05h 02m 36.21± 1.81s
31.635 S ±76.0km 69.495 W ±27.8km
DEPTH = 100.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTBS	0.04	126	iPd	02	50.40	-0.1
			S	03	00.00	
RTCB	0.61	76	ePc	02	53.50	0.3
			S	03	07.50	
RTLL	0.93	71	ePc	02	56.00	-0.2
			S	03	12.00	
CFA	1.07	89	e(P)d	02	57.70	-0.1
			S	03	15.00	

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

% MAY 24, 1993 05h 25m 32.17± 1.01s
39.720 N ± 9.4km 27.823 E ± 5.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

EDC	0.63	3	iPg	25	44.00	-0.8
			eSg	25	53.00	
DST	0.63	100	iPg	25	44.80	-0.1
			iSg	25	55.80	
KCT	0.67	38	ePg	25	45.90	0.4
			eSg	25	55.40	
KGT	0.83	332	iPg	25	48.50	0.3
EZN	1.16	276	ePn	25	53.80	0.0
YLV	1.46	54	ePn	25	58.40	-0.2
CTT	1.50	18	ePn	25	59.40	0.3

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

? MAY 24, 1993 05h 34m 52.79± 1.83s
31.434 S ±55.6km 68.112 W ±26.7km
DEPTH = 100.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

CFA	0.20	212	iPc	35	07.50	0.0
			S	35	18.20	
RTLL	0.32	289	ePc	35	07.80	0.0
			S	35	19.00	
RTCB	0.59	265	ePd	35	09.50	-0.1
			S	35	22.00	
RTBS	1.17	258	e(P)d	35	15.40	0.1
			S	35	32.40	

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

MAY 24, 1993 06h 40m 04.20± 0.15s
13.948 N ± 2.9km 120.705 E ± 3.7km
DEPTH = 197.2km (8 depth phases)
4.9mb (46 obs.)
MINDORO, PHILIPPINE ISLANDS (250)

TGY	0.27	55	iPc	40	29.80	-1.9
			iS	40	46.00	
PGP	0.50	151	iPd	40	28.00	-4.3X
OVP	0.73	23	iPd	40	31.60	-0.6
			iS	40	51.60	
OCP	0.77	28	eP	41	15.00	42.5X
BAG	2.45	357	iPc+	40	45.00	-3.0X
			iS	41	15.10	
BCP	2.46	358	eP	40	30.00	-18.0X
			eS	41	38.00	
SZP	3.59	356	ePd	41	02.00	0.7
			eS	41	10.00	
PPR	4.57	205	iPc	41	14.00	0.3
			eS	42	11.00	
PLP	5.01	123	ePc	41	20.80	1.5
CGP	6.72	144	iPc	41	42.00	0.5
DAV	8.33	144	eP	42	06.10	3.4X
HKC	10.37	324	eP	42	28.10	-1.1
			eS	44	22.10	
SSE	17.07	1	P	43	52.00	-0.8
	1.2s		60.00nm			4.9mb
Z	16s		0.40um			4.5MszX
N	12s		0.30um			
			sP	44	12.60	
			S	46	56.00	
			sS	47	14.00	
LOE	18.59	283	iPd	44	08.50	-0.6
KAGJ	19.54	27	P	44	17.70	-1.0
NST	19.96	278	eP	44	23.50	0.5
KUMJ	20.68	25	P	44	30.00	-0.1
BDT	21.16	282	eP	44	28.00	-6.9X
	0.8s		135.00nm			5.5mb
CHTO	21.42	286	iPd	44	38.30	0.7
	1.1s		176.68nm			5.5mb
			eS	48	22.20	
KHT	21.44	275	iPd	44	38.60	0.9
IPM	21.52	246	ePd	44	39.50	1.0
	1.4s		304.80nm			5.6mb
SHNJ	22.19	23	P	44	45.00	0.2
TKSJ	23.33	29	P	44	56.40	0.5
GUMO	23.47	88	eP	44	57.50	0.1
	1.1s		574.40nm			6.1mb X
			e	45	39.50	222kmX
PJG	23.47	88	eP	44	58.30	0.9
GUA	23.52	88	eP	44	58.20	0.4
	0.6s		90.67nm			5.6mb
YONJ	24.07	26	P	45	03.00	0.1
WKYJ	24.27	31	P	45	06.00	1.1
LEM	24.39	213	iPd	45	10.50	4.3X
TSRJ	25.52	30	P	45	15.80	-0.4
BJI	26.29	352	eP	45	22.50	-0.7
	1.2s		29.00nm			4.9mb
			eS	49	38.00	
			esS	50	44.00	
			eScP	52	07.50	
LZH	26.74	329	iPd	45	28.00	0.5
	1.4s		425.00nm			6.0mb X
Z	15s		0.44um			4.1MszX
			pP	46	03.50	174kmX
			sP	46	25.00	
			S	49	49.00	
			sS	50	52.00	
			ScP	52	09.00	
			PcS	52	26.00	
			ScS	55	58.50	
CHJJ	27.45	33	P	45	31.10	-2.7
HOOJ	34.41	30	eP	46	35.00	0.6
ASAJ	35.43	28	eP	46	43.10	0.0
KUSJ	35.64	31	P	46	45.40	0.6
WB2	36.26	158	eP	46	48.70	-1.6
	0.5s		172.90nm			5.9mb
			eS	52	09.70	

```
CIT     38 38 353 eP     47 09.50    1.7
ZAK     39.01 342 ePc    47 13.00    0.1
        1.2s     21.00nm          4.6mb
                 e       48 56.00 602kmX
ASPA    39.55 161 iPc    47 17 30   -0.3
        0.4s    139.90nm          5.9mb
                 e       48 16.10 289kmX
                 eS      53 02.10
WARB    40.31 172 iPc    47 18.70   -5.1X
MEEK    40.39 183 eP     47 23.70   -0.8
IRK     40.42 344 ePc    47 24.00   -0.5
        1.6s     39.00nm          4.7mb
                 e       48 05.20 192km
HYB     40.67 281 iPd    47 27.50    0.5
        1.0s    150.00nm          5.5mb
                 e       48 10.00 198km
MOY     40.85 341 ePd    47 28.90    1.0
GBA     41.98 275 Pd     47 38.20    0.5
        0.5s     28.00nm          5.1mb
CTA     42.14 143 iPc    47 40.00    1.1
        1.3s     81.73nm          5.1mb
                 i       47 43.00  10kmX
NDI     42.84 297 eP     47 41.00   -3.5X
        0.6s     20.00nm          4.8mb
MRWA    43.15 186 eP     47 45.00   -1.9
BOD     44.10 355 eP     47 53.20   -1.0
        1.0s      6.00nm          4.1mb
COOL    44.57 179 eP     47 57.00   -1.3
SVO     45.08 118 P      48 03.00    0.4
POO     45.12 282 iPd    48 02.50   -0.4
KLB     45.37 184 eP     48 03.40   -1.1
PRZ     46.19 316 eP     48 13.00    1.8
        1.0s    100.00nm          5.2mb
NWAO    46 73 184 eP     48 14.00   -1.2
ELT     47 73 333 eP     48 22 80    0.0
        1.6s     50.00nm          4.7mb
                 e       50 14.00 626kmX
                 eS      55 02.00
                 e       57 50.00
YAK     48.43    6 iPd    48 27.20   -0.9
        1.5s     72.00nm          4.9mb
                 eS      55 12.00
FRU     48 88 315 iPd    48 33.00    1.1
        2.0s     70 00nm          4.8mb
                 e       49 47.00 362kmX
STK     49.77 157 eP     48 37.80   -0.9
        0 5s      7.10nm          4.4mb
MGD     51 09   19 ePc   48 47.50   -0.8
        0.7s     80.00nm          5.4mb
BRS     51.54 143 iPd    48 42.20  -10.0X
        1.0s     10.00nm
QUE     51.91 297 eP     48 51 40   -3.8X
ARMA    53.22 146 iPd    49 05.10    0.6
        0.7s     13.60nm          4.7mb
BWA     54.85 152 eP     49 17.10    0.8
CAN     55.86 152 iPc    49 23.20   -0.4
CNB     56.02 152 iPc    49 24.60   -0.1
        0.6s     22.00nm          5.1mb
TOO     56.29 156 iPc    49 27.00    0.4
        0.8s     39.00nm          5.2mb
BKM     56.45 122 iPc    49 28.30    0.3
DZM     57.38 128 iPc    49 34.90    0.4
TIK     57.87    3 iPc   49 25.00  -12.1X
        1.2s    110.00nm
                 ipP     50 15.00 221kmX
                 iS      57 18.00
                 i       59 02.00
MAIO    58.74 304 iPd    49 44.00    0.1
        0.9s     21.31nm          4.9mb
                 eS      57 38.00
NRI     59.10 347 iPc    49 44.40   -1.3
        0.9s     25.00nm          5 0mb
                 e       50 25.00 175kmX
                 eS      57 35.00
                 ePS     57 47 00
                 e       59 14.00
ASH     59.81 306 eP     49 51.00    0.0
ILT     66.29   21 iPc   50 32.70   -0.3
        0.9s     90.00nm          5.5mb
GRS     69.26 307 eP     50 52.00   -0.1
        1.2s     40.00nm          5.0mb
SDN     72.28   36 e(P)  51 08.40   -1.2
QRZ     72.58 141 P      51 12.10    0.5
DSZ     72 70 142 eP     51 11.80   -0.5
THZ     73.37 142 eP     51 15.80   -0.4
CNZ     73.52 139 P      51 18 60    1.4
NGZ     73.54 138 P      51 18.70    1.3

LTZ     73.61 143 eP     51 17.70    0.1
URZ     74.03 137 eP     51 19.60   -0 4
KHZ     74.14 142 P      51 20.00   -0.5
MNG     74.28 140 eP     51 20.10   -1.4
HBZ     74.47 136 P      51 23.40    0.8
BRW     74.49  19 iPd    51 22.95    0.8
TTA     74.64  28 ePc    51 24.10    0.8
MOS     74.71 324 eP     51 24.00    0.3
        1.5s     40.00nm          4.9mb
NOZ     74.83 137 P      51 25.00    0.4
SVW     74.85  30 eP     51 25.36    0.9
        0.8s     25.24nm          5.0mb
OBN     75.33 324 ePd    51 26.50   -0.7
        1.1s     39.00nm          5.0mb
IMA     75.58  25 iPc    51 29.37    0.7
        0.8s     19.56nm          4.9mb
                 epP     52 14.84 188km
PMR     77.93  29 iPd    51 41.02   -0.4
        0.6s     24.31nm          5.1mb
                 epP     52 28.87 198km
FBA     78.12  26 eP     51 41.92   -0.6
        1.0s     23.53nm          4.9mb
SDF     78.89 337 iP     51 46.80    0.2
KLU     79.47  29 eP     51 50.39    0.5
                 epP     52 39.23 201km
KAF     79.84 332 eP     51 50.70   -1.1
        0.4s      6.90nm          4.7mb
CSY     80.36 184 iPd    51 54.30    0.0
        0.5s     13.40nm          4.9mb
NUR     80.94 330 eP     51 57.20   -0.3
        0.5s      6.50nm          4.6mb
BALM    81.25  29 eP     51 59.68    0.3
MBC     83.30  12 ePc    52 09.50    0.0
        0.7s      9.00nm          4.6mb
UPP     84.50 330 iP     52 15.30   -0.4
UZH     85.12 319 eP     52 20.70    1.6
        1.2s     55.00nm          5.2mb
                 e       53 12.60 212kmX
OJC     86.24 321 eP     52 25.20    0.6
HFS     86.26 331 eP     52 23.50   -1.0
        0.6s     11.90nm          4.9mb
      Z 17s     48.00um          7.0MszX
                 LR      26 52.00
DAG     86.38 351 eP     52 24.00   -0.8
NB2     87.04 333 P      52 27.40   -0.9
        0.9s     12.10nm          4.7mb
NAO     87.30 333 P      52 27.43   -2.1
SKO     87.54 313 eP     52 31.00    0.0
KSP     88.17 322 eP     52 34.30    0.5
                 e       53 24.00 201km
OHR     88.24 312 eP     52 32.00   -2.5
PRU     89.51 322 eP     52 45.00    4.8X
BRG     89.55 323 eP     52 41.00    0.7
        1.2s     11.00nm          4.7mb
CLL     89.93 323 eP     52 42.00   -0.1
                 e       53 32.00 202km
KHC     90.41 321 eP     52 45.50    1.1
                 e       53 34.50 197km
GEC2    90.44 321 ePd    52 45.00    0.4
        0.8s      2.91nm          4.3mb
                 e       52 48.80  12kmX
                 e       52 58.80
                 e       53 01.70
GRF     91.61 322 eP     52 50.80    0.9
                 e(pP)   53 36.20 181kmX
PGF     95.97 316 eP     53 10.70    0.5
        0.8s      6.70nm          5.0mb
LPG     96.14 320 eP     53 11.90    0.8
        1.0s      5.60nm          4.9mb
LPL     96.15 320 eP     53 11.80    0.7
        0.9s      5.90nm          4.9mb
PPD   168.94 222 (PKP)  59 50.00    1.0
      S.D. = 0.9  on 110 of 123 obs.
-------------------------------------
•  MAY  24, 1993  06h 54m 28.38± 2.02s
   32.876 S ± 9.9km   71.633 W ±17.6km
   DEPTH =  33.0km  (normal)
 NEAR COAST OF CENTRAL CHILE      (135)
      MD 3.8 (SAN).

ROCH    0.53 100 iP      54 38.65   -1.0
                 iS      54 48.29
LCCH    0.60 175 iP      54 39.94   -0.5
                 iS      54 50.66
PEL     0.84 109 iP      54 43.77   -0.1
                 iS      54 57.58
JACH    0.90  78 iP      54 42.80   -1.9

                 iS      54 56.33
TACH    0.97 143 iP      54 46.18    0.5
                 iS      55 01.26
SAN     1.00 125 iP      54 46.55    0.4
LNV     1.09 170 iP      54 47.05   -0.3
                 iS      55 04.30
PCH     1.20 129 iP      54 49.85    0.9
FCH     1.21 112 iP      54 49.65    0.2
                 iS      55 07.91
CHCH    1.34 142 iP      54 52.38    1.5X
                 iS      55 12.04
RTBS    2.21  57 e(P)c   55 04.20    0.8
RTCB    2.77  61 ePc     55 12.70    1.2X
                 S       55 52.20
RTCV    2.81  70 ePc     55 13.00    1.0
RTLL    3.10  61 ePd     55 16.00   -0.1
                 (S)     55 59.00
CFA     3.14  67 eP      55 18.50    1.8X
                 (S)     56 02.20
TCA     6.17  77 ePd     55 56.50   -3.2X
      S.D. = 0.9  on  12 of  16 obs.
-------------------------------------
%  MAY  24, 1993  07h 52m 18.51± 0.80s
   40.638 N ± 5 5km   27.545 E ± 6.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 2.8 (ISK).

KGT     0.26 225 iPn     52 23.90   -0.1
EDC     0.38 140 iPg     52 27.00    0.7
                 eSg     52 33.00
BNT     0.40 134 iPg     52 26.40   -0.3
                 iSg     52 32.40
KCT     0.73 122 ePg     52 32.40   -0.5
                 eSg     52 42.90
CTT     0.84  53 iPg     52 34.40   -0.4
                 eSg     52 47.20
DMK     1.19   8 ePn     52 41.00    0.2
YLV     1.39  92 ePn     52 44.40    0.4
      S.D. = 0.5  on   7 of   7 obs.
-------------------------------------
%  MAY  24, 1993  08h 23m 29.28± 1.51s
   38.686 N ±12.7km   27.754 E ±14.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 2.7 (ISK).

IZM     0.48 233 ePg     23 39.00   -0.1
                 eSg     23 48.00
DST     1.14  36 ePn     23 51.00    0.3
EZN     1.59 316 ePn     23 57.90    0.4
EDC     1.66   3 ePn     23 58.00   -0.5
KGT     1.80 349 iPn     24 00.40   -0.1
      S.D. = 0.5  on   5 of   5 obs.
-------------------------------------
%  MAY  24, 1993  08h 28m 00.68± 0.78s
   39.131 N ± 6.3km   27.518 E ± 7.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 2.8 (ISK).

IZM     0.76 195 ePg     28 15.50   -0.1
                 eSg     28 27.00
DST     0.98  61 iPn     28 19.50    0.1
EZN     1.15 307 iPn     28 22.40    0.2
EDC     1.24  12 ePn     28 24.00    0.2
KCT     1.29  30 iPn     28 24.40   -0.2
KGT     1.33 353 ePn     28 24.90   -0.3
      S.D. = 0.3  on   6 of   6 obs.
-------------------------------------
%  MAY  24, 1993  08h 33m 04.74± 0.80s
   39.083 N ± 6.5km   27.587 E ± 8.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 2.7 (ISK).

IZM     0.73 200 ePg     33 18.90   -0.2
                 eSg     33 29.90
DST     0.96  57 iPn     33 23.50    0.4
EZN     1.23 308 iPn     33 27.90    0.4
EDC     1.28  10 ePn     33 28.00   -0.5
BNT     1.30  11 ePn     33 28.00   -0.8
KCT     1.31  27 iPn     33 29.20    0.3
KGT     1.38 351 iPn     33 30.40    0.4
      S.D. = 0.6  on   7 of   7 obs.
-------------------------------------
•  MAY  24, 1993  09h 11m 02.99± 1.25s
```

24d 09h

2.737 N ± 9.4km 74.539 W ±10.9km
DEPTH = 62.2 ± 14.0 km
COLOMBIA (103)

DIAC	1.74	288	iPd	11 31.38	-0.2
SILC	1.80	268	eP	11 32.35	-0.2
AZUC	1.86	301	iPd	11 32.28	-1.2
PURC	1.87	257	eP	11 33.94	0.3
BOG	1.93	14	iPc	11 35.00	0.6
			iS	12 01.00	
HOOC	2.21	289	iPd	11 38.07	-0.2
FUQ	2.83	16	eP	11 59.00	12.0X
PSO	3.18	241	eP	11 53.50	1.5
ZOBO	19.92	162	P	15 31.00	-2.1
LPB	20.18	162	P	15 44.00	8.4X
CNCB	20.48	162	P	15 43.00	4.2X
SIV	22.88	145	P	16 03.10	0.9
LRM	54.20	328	eP	20 24.60	-0.1
ASPA	145.51	230	iPKPd	30 36.90	0.3
	0.5s		5.60nm		
WB2	147.02	237	ePKP	30 39.50	0.4
	0.5s		9.60nm		
WRA	147.03	237	PKP	30 42.00	2.9X
	0.7s		2.30nm		

S.D. = 1.1 an 12 of 16 abs.

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* MAY 24, 1993 09h 34m 47.04± 0.78s
35.254 N ± 7.7km 33.829 E ± 8.3km
DEPTH = 10.0km (geophysicist)
3.4mb (1 obs.)
CYPRUS REGION (372)
ML 3.6 (CSS).

FAM	0.29	151	eP	34 52.80	-0.4
			eS	34 55.50	
CSS	0.50	235	ePc	34 57.70	0.5
			eS	35 06.00	
PPCY	1.27	254	eP	35 13.40	2 8X
			eS	35 32.00	
ADAT	2.19	34	ePn	35 23.90	0 0
GAZ	3.34	54	ePn	35 40.90	0.6
GEC2	20.11	319	ePn	39 23.10	-0 7
	1 2s		2.13nm		3 4mb

S.D = 0 8 an 5 of 6 obs.

? MAY 24, 1993 09h 42m 08.30± 4.99s
39.457 N ±35.8km 29.596 E ±21.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.6 (ISK).

DST	0.76	282	iPg	42 23.50	0.3
			iSg	42 35.00	
YLV	1.12	351	ePn	42 29.90	0.5
EYL	1.19	21	ePn	42 30.30	-0.2
KCT	1.24	310	ePn	42 30.80	-0.5

S.D. = 0.8 an 4 of 4 obs.

? MAY 24, 1993 09h 46m 27.53± 2.52s
41.675 N ±13.3km 27.464 E ±18.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

DMK	0.26	56	iPg	46 33.00	-0.1
			iSg	46 37.30	
CTT	0.90	126	iPg	46 44.30	-0.4
KGT	1.23	186	ePn	46 50.40	0.0
ISK	1.35	116	ePn	46 52.80	0.5

S.D. = 0.7 an 4 of 4 abs.

MAY 24, 1993 09h 50m 32.16± 0.65s
35.262 N ± 4.7km 2.520 W ± 6.6km
DEPTH = 24.1 ± 4.9 km
STRAIT OF GIBRALTAR (385)
mbLg 3.5 (MDD). Felt (III) on the Chafarinos Islonds, Spain.

EMEL	0.36	276	iPgd	50 40.00	0.0
			eSg	50 49.00	
TAF	0.46	169	iPnd	50 41.50	-0.1
			iSg	50 53.00	
MAL	2.12	314	iPnc	51 05.60	-1.1
			iSg	51 29.00	
ECOG	2.18	338	iPnd	51 08.00	0.3
			eSn	51 39.50	
EHUE	2.55	359	eP	51 14.20	1.3
			e	51 44.80	
EJIF	2.67	297	ePn	51 14.50	-0.1
			eSn	51 49.00	
ELUQ	2.69	329	iPnc	51 16.50	1.6
			eSn	51 51.00	
EALH	2.74	19	ePn	51 15.00	-0.5
			eSn	51 50.00	
IFR	2.77	232	iPn	51 16.00	-0.1
			iSn	51 58.00	
EPRU	2.78	309	iPnd	51 17.00	0.9
			eSn	51 52.00	
EBAN	3.07	341	ePn	51 21.50	1.3
			eSn	52 00.00	
EHOR	3.37	320	iPnc	51 23.60	-0.8
			eSn	52 08.00	
EVIA	3.37	0	ePn	51 25.20	0.6
			eSn	52 06.00	
ACU	3.66	27	ePn	51 28.50	-0.1
EVAL	4.12	305	iPnc	51 34.00	-1.2
ECHE	4.49	15	ePn	51 40.00	-0.5
AVE	4.50	246	ePn	51 41.50	0.9
			iSn	52 41.00	
			i	53 02.00	
ETOR	5.56	4	ePn	51 55.00	-0.6
			eSn	52 59.00	
EPLA	5.56	331	ePn	51 54.00	-1 6
TIO	5.88	224	iPnd	52 00.00	-0.1
			iSn	53 11.00	
			i	53 15.00	

S.D. = 1.0 an 20 of 20 obs.

& MAY 24, 1993 10h 06m 02.46s
34.122 N 116.398 W
DEPTH = 0.1km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 2.8 (PAS). Felt.

PEC	0.67	250	iPc	06 15.33	-0.6
			eS	06 23.79	
PLM	0.86	207	ePd	06 18.78	-0.8
			eS	06 30.14	
SSK	1.08	275	eP	06 22.71	-1.1
			eS	06 37.12	
GSC	1.22	344	ePd	06 25.36	-0.8
			eS	06 41.81	
GLA	1.69	129	eP	06 30.79	-2.6
ISA	2.30	313	ePn	06 40.14	-2.1
			ePg	06 44.99	
			eS	07 14.68	
ABL	2.44	288	(Pn)	06 44.08	-0.4
TPNV	2.82	2	(P)	06 55.27	5.4
	8 obs. assaciated				

? MAY 24, 1993 10h 09m 54.80± 4.86s
31.010 S ±27.6km 69.565 W ±37.7km
DEPTH = 33.0km (normal)
SAN JUAN PROVINCE, ARGENTINA (137)

RTBS	0.66	172	iPd	10 07.50	-0.1
RTCB	0.81	126	ePc	10 10.70	0.8
			S	10 25.00	
CFA	1.28	118	ePd	10 15.70	-0.8
			S	10 33.50	
RTPR	2.72	76	e(P)	10 37.20	0.1

S.D. = 1.2 an 4 of 4 obs.

% MAY 24, 1993 11h 06m 41.75± 0.68s
37.744 N ± 6.4km 14.992 E ± 5.6km
DEPTH = 5.0km (geophysicist)
SICILY (398)

MNO	0.30	308	P	06 48.00	0.1
			eSg	06 53.00	
ATN	0.56	42	Pc	06 52.40	-0.5
			eSg	07 01.00	
MEU	0.64	184	P	06 54.50	-0.1
			eSg	07 05.50	
GIB	0.80	288	P	06 57.00	-0.9
			eSg	07 09.20	
SOI	0.90	68	P	06 59.10	-0.4
			eSg	07 12.20	
FAI	1.15	246	P	07 04.20	0.5
CZI	1.72	31	P	07 09.70	-2.8X
ROI	2.20	34	P	07 20.70	1.2
CSI	2.27	26	P	07 22.30	1.8X

S.D. = 0.8 an 7 of 9 obs.

% MAY 24, 1993 11h 08m 50.31± 0.87s
39.241 N ± 7.6km 27.726 E ± 8.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

DST	0.79	62	ePg	09 05.30	-0.4
IZM	0.92	203	ePg	09 08.00	0.1
			eSg	09 22.00	
EDC	1.11	5	ePn	09 11.00	-0.1
KCT	1.12	26	ePn	09 11.80	0.5
EZN	1.23	299	iPn	09 13.00	-0.2

S.D. = 0.5 an 5 of 5 abs.

? MAY 24, 1993 11h 10m 46.54± 4.47s
37.919 N ±69.0km 14.983 E ±22.4km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO	0.23	273	P	10 51.50	-0.1
			eSg	10 57.00	
ATN	0.45	57	P	10 55.70	0.0
			eSg	11 05.90	
GIB	0.76	276	P	11 01.50	0.1
			eSg	11 12.50	
SOI	0.86	79	P	11 01.10	-2.0X
			eSg	11 17.20	
CZI	1.58	34	P	11 14.60	0.0

S.D. = 0.1 an 4 of 5 abs.

MAY 24, 1993 11h 10m 56.92± 0.14s
1.511 S ± 2.7km 77.315 W ± 2.9km
DEPTH = 200.9km (19 depth phases)
4.8mb (62 obs.)
ECUADOR (107)

PSO	2.68	360	eP	11 46.00	2.2
PURC	3.93	14	ePc	12 01.34	2.5
SILC	4.28	13	ePc	12 05.09	1.8
DIAC	4.90	13	iPc	12 11.83	0.9
HOOC	4.99	8	iPc	12 11.66	-0.5
AZUC	5.30	13	iPc	12 15.82	-0.6
BOG	6.90	28	iPc	12 39.50	2.5
			iS	13 46.00	
FUQ	7.80	27	eP	12 51.00	2.0
ARE	15.93	159	iPd	14 34.50	2.5X
ZOBO	17.24	149	P	14 45.00	-2.9X
Z	24s		0.15um		
			LR	18 06.00	
LPB	17.47	149	P	14 49.00	-1.1
	1.0s		120.00nm		5.3mb
CNCB	17.76	149	P	14 53.20	-0.3
CCH	19.23	146	P	15 08.70	0.3
TCE	19.67	52	eP	15 13.69	1.1
TPP	19.68	53	eP	15 14.04	1.4
TRN	19.91	52	eP	15 15.37	0.4
			eS	18 52.75	
TBH	20.09	53	eP	15 17.94	1.2
GRW	20.65	48	eP	15 22.36	-0.1
TPR	20.73	52	eP	15 23.55	0.4
BOT	20.76	52	eP	15 23.93	0.5
SIV	21.53	133	P	15 30.80	-0.2
FCV	21.60	47	eP	15 30.13	-1.6
SVB	21.67	47	eP	15 30.44	-2.0
SVV	21.73	47	eP	15 30.52	-2.4X
PAG	23.29	41	eP	15 47.00	-1.1
MGG	23.45	42	eP	15 48.50	-1.1
DEG	23.90	42	eP	15 52.00	-1.9
BPA	23.93	39	eP	15 52.50	-1.6
HJA	24.47	153	ePd	16 01.00	1.9
SLA	25.75	155	ePd	16 12.80	1.7
OXX	26.60	315	(P)	16 20.50	1.6
FSA	26.74	157	iP	16 21.00	1.2
IISM	28.35	317	(P)	16 36.00	1.6
PPM	29.27	315	(P)	16 45.00	1.8
III	29.42	313	(P)	16 45.50	1.4
MRX	31.52	313	(P)	17 04.00	1.8
PEL	32.08	169	iPd	17 08.00	1.0
PPD	32.50	131	eP	17 09.50	-1.3
RFA	34.10	167	iPd	17 25.00	0.5
RIFB	34.49	124	iPd	17 27.50	-0.4
			i	17 36.30	30kmX
SGS	34.65	355	ePc	17 29.01	0.0
GOGA	35.22	351	eP	17 33.39	-0.4
	0.7s		16.60nm		4.8mb
PRM	35.72	353	iPc	17 37.73	-0.3
			ipP	18 21.34	204km

24d 11h

JSC	35.79	354	eP	17	38.63	0.0		0.7s	15.69nm		4.8mb		0.8s	7.50nm		4.5mb
			iPcP	20	01.66		ARN	56.28	318	iPd	20	19.21	0.2	MAF	84.08	43	eP	23	05.90	-0.4
MYNC	36.95	351	eP	17	47.78	-0.6	LRM	56.43	331	ePd	20	19.60	-0.5		1.4s	33.55nm		4.9mb						
	1.4s	63.17nm			5.1mb					e	21	05.90	204km	BGF	84.32	43	eP	23	07.10	-0.4
			iPcP	20	05.01		ORV	57.48	320	iPd	20	27.44	0.2		1.1s	23.70nm		4.8mb		
			eScP	23	32.71					ipP	21	13.53	202km	DAG	84.57	11	eP	23	07.60	-0.5
CEH	37.25	358	eP	17	50.37	-0.4	NTYM	57.59	319	iPd	20	28.09	0.1		0.6s	12.67nm		4.8mb		
	0.9s	27.57nm			4.9mb		LBFM	58.74	322	iPd	20	35.48	-0.8	AVF	84.70	43	eP	23	08.60	-0.8
TKL	37.47	351	eP	17	51.87	-0.8				epP	21	21.02	199km		0.9s	8.70nm		4.5mb		
GBTN	37.54	351	iPc	17	52.80	-0.5	VIPM	59.85	325	P	20	43.81	0.1	SSF	84.84	43	eP	23	09.20	-0.9
NAV	38.77	356	eP	18	03.39	-0.1	JBO	60.01	327	P	20	44.43	-0.1		1.3s	18.05nm		4.6mb		
			ePcP	20	10.80		CROR	60.35	326	P	20	47.65	0.6	SMF	85.01	43	eP	23	10.30	-0.7
MIAR	38.98	338	eP	18	03.92	-1.3	NEW	60.42	331	iPd	20	46.64	-0.7		1.3s	26.00nm		4.8mb		
	0.8s	9.75nm			4.5mb		DBO	60.57	323	P	20	47.82	-0.7	SVW	85.67	332	ePd	23	13.16	-0.8
			ePcP	20	11 00		DPW	60.69	330	P	20	49.28	0.0		0.7s	28.94nm		5.2mb		
OLY	39.13	342	eP	18	04.99	-1.4	VBEM	60.74	325	P	20	49.96	0.2	IMA	85.86	337	iPd	23	14.89	0.0
			epP	18	47.62	200km	SSOR	61.11	325	Pd	20	51.32	-0.9		0.8s	7.18nm		4.5mb		
			ePcP	20	11.42		SAW	61.20	329	P	20	52.39	-0.2	DOU	85.95	40	P	23	14.80	-0.7
LTX	39.70	323	ePd	18	10.54	-0.8	EBG	61.31	328	P	20	53.82	0.4				ed	24	05.50	207km
			ePcP	20	12.92		RNO	61.32	323	P	20	53.68	0.1	TTA	86.20	333	eP	23	15.95	-0.6
ELC	40.15	345	ePc	18	12.68	-2.1	ASR	61.40	326	P	20	54.24	0.2		0.7s	4.38nm		4.4mb		
			iPcP	20	14.54		WTV	61.48	329	P	20	54.44	-0.1	FRF	86.65	46	eP	23	18.40	-0.6
FVM	41.13	344	eP	18	21.05	-1.8	FCC	61.55	350	eP	21	00.00	5.4X	ENN	86.88	39	eP	23	20.00	0.1
	0.7s	81.97nm			5.4mb					pP	21	41.00	175kmX		0.9s	17.90nm		4.9mb		
			epP	19	04 04	201km	LON	61.88	327	P	20	56.73	-0.4				e	24	09.00	199km
			ePcP	20	17.87		KMOR	62.16	325	P	20	59.49	0.4	LPG	86.90	44	eP	23	20.70	0.1
OCO	41.38	335	iPc	18	21.50	-3.4X	JCW	62.83	328	Pd	21	02.34	-1.0		1.0s	6.20nm		4.4mb		
TYNO	44.46	357	P	18	49.23	-0.4	GMW	62.89	327	iPd	21	03.13	-0.7	WLF	86.91	40	Pd	23	22.00	1.9
STCO	44.55	358	P	18	49 63	-0.7	MCW	63.60	328	P	21	08.39	0.0				id	24	10.54	197km
ACTO	44.98	357	P	18	53.15	-0 6	STW	63.73	327	P	21	09.78	0.6	SBF	87.24	46	eP	23	21.20	-0.8
WLVO	45.24	359	P	18	55.11	-0.6	KING	65.15	78	P	21	17.70	-1.2		0.8s	10 90nm		4.7mb		
ALO	45.38	326	iPd	18	58.24	0.9	FRB	65.42	4	eP	21	18.00	-1.7	SDN	87.35	325	e(P)	23	22.10	0.1
	0.8s	167.88nm			5.5mb			0.8s	7.00nm			4.5mb		CDF	87.52	42	eP	23	22.70	-0.5
RSNY	45.92	3	iPd	19	00.86	-0.3	MAMG	66.06	78	P	21	24.00	-0.9		0.8s	10.50nm		4.7mb		
	1.2s	40.27nm			4.7mb		RUV	70.38	255	iPd	21	51.50	0.2	WTS	87.55	38	eP	23	24.00	0.9
GAC	47.04	2	ePc	19	10.30	0.4		0.9s	97.00nm			5.5mb			0.9s	30.20nm		5.1mb		
EEO	47.97	358	eP	19	18.50	1.4	TPT	70.59	255	iPd	21	52.80	0.2				e	24	14.00	203km
GOL	48.40	331	eP	19	20.79	-0.1		0.9s	58.00nm			5.3mb		NVL	88.30	161	iPd	23	27.00	0.6
	0.7s	19.30nm			4.6mb		VAH	70.62	254	iPd	21	52.90	0.1		1.0s	46.00nm		5.3mb		
			epP	20	04 72	199km		0.9s	72.40nm			5.4mb					i	24	16.00	198km
			ePcP	20	43.55		PMO	70.86	255	iPd	21	54.50	0.3	TNS	88.43	40	ePd	23	27.60	0.1
LMN	48.44	12	eP	19	23.00	2.2		1.1s	112.30nm			5.5mb		SPA	88.50	180	iPd	23	28.80	1.1
GLA	49.33	318	iPc	19	28.04	0.2	PPN	72.50	252	iPd	22	04.00	0.1		1.1s	311.31nm		6.1mb X		
SRU	50.63	327	iPd	19	37.61	-0.2		0.7s	49.80nm			5.4mb		GRF	90.19	40	ePc	23	36.50	0.9
			eScP	24	28.98		LIC	72.57	83	Pc	22	04.20	-0.3		1 0s	13.00nm		4.8mb		
PLM	50.89	317	eP	19	40.15	0.3	TIC	72.60	83	Pc	22	04.50	-0.2				epPd	24	25.40	197km
MSU	51.15	325	iPd	19	42.08	0.3	PPT	72.64	252	iPd	22	05.10	0.3	MOX	90.48	40	eP	23	37.90	1.0
			ePP	21	43.81			1.6s	347.00nm			5.8mb			2 0s	34.00nm		5.0mb		
			eScP	24	31.85		PAE	72.65	252	iPd	22	05.20	0.4				e	24	27.50	200km
EMUT	51.29	327	ePd	19	42.84	0.0		1.1s	226.60nm			5.8mb		NB2	90.60	29	P	23	37.80	0.5
RSSD	51.32	335	eP	19	42.69	-0.3	AFR	72.83	252	iPd	22	06.00	0.2		1.0s	3.90nm		4.3mb		
	0 8s	10.96nm			4.5mb			0.7s	203.70nm			6.0mb X		CLL	91.37	39	iPd	23	41.80	0.8
			epP	20	27.29	200km	KIC	72.86	83	Pc	22	06.00	-0.2		1.3s	14.00nm		4.8mb		
			ePcP	20	53.88			0.3s	29.50nm			5.5mb					i	24	31.00	198km
PEC	51.40	317	ePd	19	43.51	0.0	AVE	74.13	55	iP	22	13.80	0.6	KHC	91.72	41	eP	23	43.00	0.3
	0.8s	32.65nm			4.9mb		MAL	77.26	52	iPc	22	31.50	0.9	GEC2	91.80	41	ePd	23	43.30	0.1
ARUT	51.41	323	ePd	19	44.05	0.4	BALM	79.48	333	eP	22	42.88	0.5		0.7s	1.68nm		4.2mb		
SSK	51.94	317	iPd	19	48.00	0.3	MBC	81.24	351	ePc	22	51.50	0.3				e	23	52.10	27kmX
DAU	51.95	327	iPd	19	47.93	0.1		0.5s	5.00nm			4.5mb					e	24	00.00	
			ePP	21	47.14		KLU	81.26	333	iPd	22	51.68	0.0	BRG	91.96	39	iP	23	44.60	0.9
			eScP	24	35.26		LPF	81.96	41	eP	22	54.90	-0.6		1.1s	10.00nm		4.8mb		
GSC	51.98	319	iPd	19	48.11	0 3		0.9s	13.10nm			4.7mb		PRU	92.35	40	eP	23	45.30	-0.2
TPNV	52.61	321	ePd	19	53.15	0.6	EPF	82.02	46	eP	22	56.00	0.1	KSP	93.45	39	ePd	23	51.80	1.2
	0.8s	56.44nm			5.2mb			0.8s	12.65nm			4.7mb					e	24	42.00	202km
DUG	52.66	326	eP	19	52.70	-0.1	GRR	82.15	41	eP	22	55.90	-0.5	BCAO	95.95	86	ePd	24	05.00	2.2
	0.6s	44.93nm			5.3mb			0.8s	9.40nm			4.6mb			0.8s	7.00nm		5.0mb		
BW06	52.78	330	iPd	19	52.85	-0.9	MFF	82.29	43	eP	22	56.90	-0.3				id	24	51.70	187kmX
	0.8s	9.01nm			4.4mb			0.6s	4.50nm			4.4mb		SPC	96.09	41	e(P)	24	04.70	1.7
			iPcP	20	59.24		LFF	82.62	44	eP	22	58.60	-0.3				e	24	54.40	200km
ISA	53.30	318	iPd	19	57.69	0.2		0.4s	3.80nm			4.5mb		CNB	123.08	225	iPKPd	29	31.80	0.3
	1.1s	56.54nm			5.1mb		LDF	82.67	41	eP	22	58.50	-0.6		0.3s	8.00nm				
			iPcP	21	02.06			1.6s	72.15nm			5.2mb		CAN	123.34	225	iPKPd	29	31.60	-0.4
ABL	53.35	317	eP	19	57.96	-0.1	PMR	82.75	333	iPc	22	58.81	-0.4	ARMA	123.64	231	iPKPc	29	33.00	0.2
HVU	53.73	327	eP	19	59 85	-0.8		0.6s	16.20nm			4.9mb			0.6s	5.00nm				
TNP	53.91	321	iPd	20	02.02	-0.1	LPO	82.89	45	eP	23	00.00	-0.3	BWA	124.20	226	ePKP	29	33.10	-0.6
	0.7s	19.75nm			4.8mb			0.5s	4.45nm			4.4mb		TOO	124.53	221	iPKPc	29	34.00	-0.2
ULM	53.96	345	ePc	20	02.10	0.0	SLKM	82.96	332	iPd	23	00.13	-0.2		0.5s	25.00nm				
BCH	54.12	317	iPd	20	03.61	0.0	FBA	83.18	336	ePd	23	00.93	-0.5	STK	130.39	225	iPKPd	29	45.20	-0.3
			ePcP	21	05.03			0.8s	12.23nm			4.7mb			0 6s	9.40nm				
BONR	54.52	320	eP	20	06.49	-0.2				epP	23	51.60	208km	OLP	131.17	232	ePKP	29	47.50	0.3
			ePcP	21	06.89		RJF	83.22	44	eP	23	01.70	-0.3	MAT	132.12	321	(PKP)	29	48.00	-0.7
			eScP	24	46.67			1.1s	18.80nm			4.7mb			0.7s	8.90nm				
PHAM	54.69	317	eP	20	07.44	-0.1	LSF	83.38	43	eP	23	02.40	-0.4	CTA	132.21	241	iPKPd	29	49.00	-0.3
MEMM	54.76	320	ePd	20	08.39	0.5		0.9s	13.10nm			4.7mb			0.5s	10.56nm				
KVN	55.04	322	ePd	20	10.06	-0.2	CAF	83.54	45	eP	23	03.40	-0.3	WKYJ	135.24	320	PKP	29	54.50	-0.3
JAQ	55.13	1	iPc	20	07.40	-3.0X		1.0s	16.80nm			4.7mb		YONJ	135.93	323	PKP	29	55.20	-0.8
CMB	55.90	319	eP	20	15.64	-0.7	TCF	83.85	43	eP	23	04 60	-0.6	TKSJ	136.37	321	ePKP	29	57.20	0.4

24d 11h

BJI	139.74	344	ePKP	30	02.50	-0.3
	1.2s	20.00nm				
ASPA	140.66	229	iPKPc	29	57.50	-7.6X
	0.4s	14.00nm				
			i	30	04.20	
COOL	143.31	207	ePKP	30	05.30	-4.1X
WARB	144.03	218	iPKPd	30	02.60	-8.2X
KLB	144.10	202	ePKP	30	08.20	-2.5X
	0.5s	36.00nm				
MUN	144.31	200	iPKPd	30	09.40	-1.7
	0.9s	226.00nm				
BAL	145.38	202	iPKPd	30	12.20	-0.7
	0.6s	58.00nm				
LZH	145.58	358	iPKPd	30	14.50	1.2
	1.2s	216.00nm				
			pP	31	05.00	
SSE	145.76	331	PKPc	30	13.00	-0.5
	1.1s	74.00nm				
			i	31	04.00	
MRWA	146.89	202	ePKP	30	14.70	-0.8
POO	147.05	57	ePKP	30	29.00	13.0X
MEEK	148.07	208	ePKP	30	16.50	-0.9
			e	30	20.00	
KNA	149.04	235	ePKP	30	18.60	-0.5
	0.5s	122.00nm				
			e	30	23.00	
HY8	151.50	55	ePKP	30	29.60	6.7X
	1.0s	60.00nm				
			e	30	38.00	
GBA	152.28	63	PKP	30	31.30	7.3X
CHTO	162.42	12	ePKP	30	37.00	0.9
S.D. = 0.9 on 196 of 209 obs.						

% MAY 24, 1993 11h 11m 09.61± 0.74s
42 853 N ± 6.5km 12.953 E ±10.9km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ASS	0.31	316	Pd	11	15.30	-0.7
			eSg	11	20.30	
MNS	0.51	203	Pc	11	19.20	-0.8
			eSg	11	27 20	
AOU	0.60	146	P	11	21.40	-0 4
			eSg	11	33.00	
ARV	0.65	359	Pd	11	21.50	-1 0
			eSg	11	31.80	
CRE	1.07	317	P	11	31.00	1.3
SDI	1.31	151	P	11	35.00	1.1
SFI	1.34	323	P	11	35.20	1.0
PGD	1.36	319	P	11	34.30	-0.4
S D. = 1.1 on 8 of 8 obs.						

? MAY 24, 1993 11h 40m 25.74± 4.04s
39.513 N ±29.0km 29.635 E ±18.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.6 (ISK).

DST	0.78	277	ePg	40	41.00	0.0
			eSg	40	53.00	
YLV	1.07	349	ePn	40	45.80	-0.2
EYL	1.13	21	ePn	40	47.00	0.1
KCT	1.23	307	ePn	40	48.80	0.2
EDC	1.60	302	ePn	40	54.00	-0.1
S.D. = 0.2 on 5 of 5 obs.						

% MAY 24, 1993 11h 46m 28.47± 2.35s
43.250 N ±14.0km 19.824 E ±12.8km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 2.0 (TTG).

PLE	0.32	284	iPgd	46	35.27	0.0
			iSg	46	40.20	
IVA	0.38	172	iPgc	46	36.32	0.0
			iSg	46	42.17	
PVY	0.66	170	iPgd	46	41.47	-0.3
			iSg	46	51.23	
NkY	0.75	234	iPgd	46	42.65	-0.5
			iSg	46	53.48	
TTG	0.92	207	iPgd	46	45.89	-0.1
			iSg	46	59.12	
BRY	1.00	250	iPgd	46	47.39	-0.1
			iSg	47	01.80	
BDV	1 21	218	iPgd	46	51.24	0.2
			iSg	47	08.85	
HCY	1 26	231	iPgc	46	52.23	0.3
			iSg	47	10.54	
ULC	1.35	198	iPgc	46	53.89	0.5
			iSg	47	13.63	
S.D. = 0.4 on 9 of 9 obs.						

% MAY 24, 1993 11h 50m 16.47± 0.65s
37.792 N ± 6.6km 15.017 E ± 5.3km
DEPTH = 10.9 ± 5.5 km
SICILY (398)

MNO	0.29	299	P	50	23.10	0.4
			eSg	50	28.00	
ATN	0.51	44	P	50	27.40	0.6
			eSg	50	36.00	
MEU	0.69	186	Pc	50	29.50	-0.7
			eSg	50	39.60	
GIB	0.81	284	P	50	31.60	-0.5
			eSg	50	44.10	
SOI	0.87	71	P	50	34.00	1.0
			eSg	50	48.60	
FAI	1.18	245	Pc	50	39.10	0.6
CZI	1.67	31	P	50	44.30	-1.5
CVT	1.77	267	P	50	47.50	0.3
TDS	2.13	29	P	50	53.00	0.6
ROI	2.15	34	P	50	52.00	-0 8
CSI	2.22	26	P	50	54.10	0.4
MGR	2.38	10	P	50	54.10	-1.9X
			eSn	51	22.10	
SGO	2.77	5	P	51	01.20	-0.4
S.D. = 0.9 on 12 of 13 obs.						

% MAY 24, 1993 11h 52m 15.19± 0.99s
37.970 N ±21.4km 14.935 E ± 7.3km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO	0.19	258	P	52	20.00	0.4
			eSg	52	25.50	
ATN	0.46	65	P	52	24.40	-0.1
			eSg	52	33.50	
GIB	0.72	272	P	52	28.90	-0.5
			eSg	52	40.80	
SOI	0.89	83	P	52	32.20	0.0
			eSg	52	46.00	
CZI	1.56	37	P	52	43.20	0.2
S.D. = 0.5 on 5 of 5 obs.						

MAY 24, 1993 11h 55m 41.35± 0.58s
1.100 S ± 4.8km 127.577 E ± 5.3km
DEPTH = 42.4 ± 5.1 km
5.1mb (30 obs.)
HALMAHERA, INDONESIA (267)

SWI	3.69	86	ePc	56	36.50	-0.9
			iS	57	28.00	
MNI	3.72	313	eP	56	38.00	0.1
			eS	57	33.00	
DAV	8.38	346	eP	57	44.00	0.8
CGP	9.92	343	eP	58	05.00	0.6
TSM	11.08	299	ePc	58	18.40	-1.9
PLP	12.46	348	ePd	58	40.00	1.2
KKM	13 38	302	ePd	58	51.70	0.6
	1.2s	95.10nm			5.6mb	
PGP	15.92	336	ePd	59	14.50	-9.7X
BCP	18.72	339	eP	00	04.00	4.8X
WRA	19.86	161	P	00	03.00	-9.0X
WB2	19.87	161	iPd	00	06.40	-5.6X
	0.6s	49.40nm			5.0mb	
			eS	03	40.30	
GUMO	22.51	49	eP	00	39.00	0.2
Z	22s	0 23um			3.6Msz	
PJG	22.51	49	eP	00	38.80	0.0
ASPA	23.26	165	iPc	00	42.90	-3.2X
	0.5s	31.30nm			5.0mb	
Z	21s	0.90um			4.2Msz	
			eS	04	51.00	
WARB	24.95	182	eP	00	56.00	-6.5X
IPM	27.12	282	ePd	01	24.00	1.4
OLP	29.98	149	eP	01	47.00	-1.2
LOE	31.41	307	eP	02	02.00	1.0
SSE	32.59	350	Pc	02	11.80	0.8
	1.2s	18.00nm			4.8mb	
Z	24s	0.50um			4.1MszX	
			S	07	30.00	
STK	33.35	158	eP	02	15.80	-1.9
	1.5s	7.30nm			4.3mb	
CHTO	34.40	307	ePc	02	27.50	0.6
	1.5s	67.57nm			5.4mb	
TKSJ	35.42	9	P	02	34.70	-0.8
KMI	35.47	319	P-	02	38.00	1.7
	1.0s	40.00nm			5.3mb	
			pP	02	43.40	18kmX
			eS	08	07.00	
			sS	08	15.00	
BRS	35.60	139	iPd	02	38.00	0.9
WKYJ	35.93	11	P	02	40.30	0.5
YONJ	36.52	8	P	02	43.30	-1.4
ARMA	37.03	144	eP	02	49.40	0.2
	0.9s	18.00nm			5.0mb	
8WA	38.45	152	eP	03	02.10	1.1
			ipP	03	05.70	12kmX
CHJJ	38.46	15	P	03	00.00	-1.0
MAT	38.73	14	eP	03	03.00	-0.3
	0.8s	5.97nm			4.5mb	
			eS	09	10.00	
CAN	39.46	152	eP	03	09.60	0.2
			ipP	03	13.20	12kmX
TOO	39.87	158	iPc	03	14.10	1.3
	0.6s	21.00nm			5.1mb	
BJI	42.25	347	eP	03	32.00	-0 2
	1.0s	15.00nm			4.7mb	
LZH	43.10	332	Pd	03	40.20	0.8
	1.6s	373.00nm			5.9mb	
Z	25s	0.38um			4.2MszX	
			pP	03	44.20	13kmX
			PP	05	24.00	
			eS	10	05.00	
			esS	10	14.00	
KKN	49.73	309	P	04	31.70	-0.3
	0.8s	46.00nm			5.6mb	
HY8	51.66	293	ePc	04	46.00	-0.6
	1.0s	40.00nm			5.4mb	
GBA	51.79	288	P	04	46.30	-1.2
	0.7s	2.00nm			4.2mb	
CIT	54.21	349	eP	05	06.20	1.2
ZAK	55.34	341	eP	05	13.00	-0.1
	1.2s	24.00nm			5.1mb	
NDI	56.54	306	iPd	05	20.50	-1.7
	0.7s	23.97nm			5.3mb	
IRK	56.68	343	eP+	05	22.00	-0.8
MOY	57.20	341	ePd	05	26.10	-0.4
	1.5s	64.00nm			5.4mb	
8OD	59.74	352	eP	05	42.10	-1.9
	1.4s	32.00nm			5 3mb	
PET	59.86	21	eP	05	45.00	0.1
PRZ	61.92	321	eP	06	00.00	0.6
	1.3s	90.00nm			5.7mb	
YAK	62.97	1	iP	06	04.10	-1.6
	0.8s	136.00nm			6.1mb	
Z	17s	0.40um			4.7MszX	
N	17s	0.30um				
E	19s	0.30um				
MGD	63 65	13	eP	06	10.00	-0.3
	1.0s	30.00nm			5 3mb	
ELT	64.15	334	iPd	06	12.70	-0.9
			eS	14	48.00	
FRU	64.53	319	iP	06	16.00	-0.4
			e	08	35.00	
CSY	66.17	187	eP	06	26.20	-0.2
	0.9s	10.40nm			4.9mb	
TIK	72.62	0	iPc	07	05.00	-0.8
	1.0s	30.00nm			5.2mb	
MAIO	73.13	308	iPc	07	09.30	-0.4
			eS	16	55.00	
NRI	75.21	347	iPc	07	21.60	0.6
			e	07	35.00	
ILT	78.10	18	iPc	07	37.80	0.7
	0.9s	10.00nm			4.8mb	
ARU	79.42	328	eP	07	44.00	-0 6
MAW	79.55	201	P	07	45.90	0.8
GRS	83.93	310	eP	08	08.00	-0.7
	1.2s	20.00nm			5.1mb	
SVW	84.60	28	eP	08	13.02	1.6
	0.9s	26.84nm			5.4mb	
TTA	84.81	27	eP	08	13.28	0.8
	1.1s	10.17nm			4.9mb	
IMA	86.43	24	eP	08	20.61	0.0
	0.9s	1.95nm			4.3mb	
SLKM	87.10	29	(P)	08	24.23	0.4
M8C	96.45	13	eP	09	07.50	0.6
	1.0s	2.00nm			4.6mb	
GEC2	106.36	321	ePKP	14	19.50	16.2X
	2.0s	7.96nm				
			e	14	28.20	

LRM	111.28	41	ePKP	14	13.30	0.4
SRU	115.03	47	ePKP	14	20.13	-0.1
RSSD	117.41	39	ePKP	14	23.91	-0.7
GOL	118.48	44	ePKP	14	27.40	0.5
ALO	119.56	50	ePKP	14	29.82	0.9
MIAR	129.21	45	ePKP	14	47.55	0.3
MYNC	135.12	38	ePKP	14	58.53	0.0
FSA	149.96	155	ePKP	15	30.60	6.3X
MOCB	154.30	151	PKP	15	33.30	1.9
CNCB	156.50	140	PKP	15	41.00	6.4X
LPB	156.63	139	ePKP	15	39.00	4.5X
ZOBO	156.80	139	PKP	15	33.20	-1.8

S.D. = 1.0 on 65 of 75 obs.

% MAY 24, 1993 11h 59m 06.55± 1.09s
37.861 N ±16.1km 14.987 E ± 7.3km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO	0.24	287	P	59	13.00	1.2
			eSg	59	18.00	
ATN	0.48	51	P	59	16.90	0.6
			eSg	59	25.50	
GIB	0.77	280	P	59	21.20	-0.4
			eSg	59	35.10	
SOI	0.87	76	P	59	23.80	0.6
			eSg	59	38.40	
FAI	1.20	241	P	59	28.40	-0.4
CZI	1.63	33	P	59	33.80	-1.5

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

MAY 24, 1993 12h 18m 12.48± 0.71s
34 891 N ± 6 3km 140.805 E ± 7.3km
DEPTH = 33.0km (normal)
4.5mb (4 obs.)
NEAR EAST COAST OF HONSHU, JAPAN(228)

KAKJ	1 41	339	P	18	37.30	1.3
			S	18	54.30	
CHJJ	1.88	309	P	18	42.50	-0.3
			S	19	02.10	
IIDJ	2.44	285	P	18	51.70	0.7
			S	19	17.60	
MAT	2.68	309	iPc	18	53.80	-0.4
			eS	19	22.00	
NIIJ	2.76	329	P	18	55.10	-0.3
MTMJ	2.97	306	P	18	58.40	-0 1
YAMJ	3.33	350	P	19	05.80	2.3
TSRJ	4 00	281	P	19	12.50	-0.5
OFUJ	4.24	9	P	19	17.40	1.1
			S	20	02.80	
WKYJ	4.35	263	P	19	17.60	-0.5
TKSJ	5.66	263	P	19	36.10	-0.3
AOMJ	5.67	357	P	19	37.90	1.3
YONJ	6.03	275	P	19	41.40	-0.3
MRRJ	7.53	2	eP	20	02.20	-0.4
			eS	21	24.10	
HOOJ	7.73	14	eP	20	04.90	-0.5
			eS	21	23.70	
KUSJ	8 74	19	eP	20	17.40	-2.1
			eS	21	48.40	
ASAJ	9.32	8	eP	20	26.30	-1.3
WB2	54.87	187	eP	27	41.70	-0.4
	0.6s		7.00nm		4.9mb	
WRA	54.88	187	P	27	42.20	0.1
	0.6s		2.40nm		4.4mb	
ASPA	58.60	187	iPd	28	10.30	1.8
	0.5s		3.30nm		4.7mb	
NB2	75.97	337	P	29	56.40	-1.2
	0.4s		0.50nm		3.9mb	
ZOBO	148.16	62	PKP	37	57.00	2.7X
LPB	148.35	62	PKP	38	04.00	9.6X
CNCB	148.62	62	PKP	38	02.70	7.7X

S.D. = 1.1 on 21 of 24 obs.

% MAY 24, 1993 12h 23m 52.68± 0.84s
39.137 N ± 7.3km 27.599 E ± 8.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.9 (ISK).

IZM	0.78	200	iPg	24	08.00	0.0
			eSg	24	20.50	
DST	0.92	59	iPn	24	10.30	-0.1
EZN	1.20	305	ePn	24	15.00	0.0
EDC	1 23	10	ePn	24	15.50	0.0
KCT	1.26	28	ePn	24	16.10	0.1

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

% MAY 24, 1993 13h 22m 19.07± 0.72s
37.790 N ± 7.5km 15.014 E ± 5.9km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO	0.29	299	Pd	22	25.60	0.4
			eSg	22	31.00	
ATN	0.51	44	Pc	22	29.90	0.4
			eSg	22	39.20	
MEU	0.69	186	P	22	32.30	-0.5
			eSg	22	42.40	
GIB	0.81	285	P	22	34.40	-0.4
			eSg	22	48.40	
SOI	0.87	71	P	22	36.60	0.8
			eSg	22	51.00	
FAI	1.18	245	P	22	41.70	0.6
CZI	1.68	31	P	22	47.10	-1.4

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

% MAY 24, 1993 13h 27m 03.18± 0.60s
37.780 N ± 6.4km 15.018 E ± 5.2km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO	0.30	301	Pd	27	10.50	1.0
			eSg	27	16.00	
ATN	0.52	43	Pc	27	14.50	0.8
			eSg	27	24.20	
MEU	0.68	186	P	27	16.40	-0.4
			eSg	27	26.40	
GIB	0.81	285	P	27	18.70	-0.3
			eSg	27	32.80	
SOI	0.87	70	P	27	20.80	0.9
			eSg	27	35.00	
FAI	1.18	245	Pd	27	26.10	0.9
CZI	1.68	31	P	27	31.30	-1.4
CVT	1.77	267	P	27	33.00	-1.0
ACI	1.82	30	P	27	34.50	-0.3
ROI	2.16	34	P	27	39.40	-0.4
CSI	2.23	26	P	27	41.30	0.6
MGR	2.39	10	P	27	42.40	-0.6
			eSn	28	10.80	

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

% MAY 24, 1993 13h 28m 22.75± 0.68s
37.816 N ± 6.9km 14.999 E ± 5.6km
DEPTH = 12.0 ± 5.8 km
SICILY (398)

MNO	0.27	296	Pd	28	29.00	0.4
			eSg	28	34.50	
ATN	0.50	47	Pc	28	33.60	0.6
			eSg	28	43.50	
MEU	0.72	184	Pc	28	35.60	-1.1
			eSg	28	46.00	
GIB	0.79	283	P	28	37.50	-0.5
			eSg	28	52.10	
SOI	0.87	73	P	28	39.90	0.6
			eSg	28	55.00	
FAI	1.18	243	Pc	28	45.20	0.6
CZI	1.66	32	P	28	50.10	-1.6
			eSg	29	12.50	
TDS	2.12	29	P	28	58.00	-0.4
ROI	2.14	35	P	28	58.80	0.0
CSI	2.20	27	P	28	59.30	-0.4
MGR	2.36	10	P	29	00.80	-1.1
			eSn	29	31.80	

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

MAY 24, 1993 13h 42m 03.74± 0.35s
43.388 N ± 4.1km 0.700 W ± 5.6km
DEPTH = 31.0 ± 4.6 km
PYRENEES (378)
ML 3.3 (LDG). mbLg 3.0 (MDD).
Felt (III) in the Lacq Oilfield
area, France.

MADF	0.26	200	Pg	42	10.67	-0.1
			Sg	42	15.74	
OGE	0.27	143	Pg	42	10.47	-0.5
ATE	0.30	180	Pg	42	11.32	0.0
			Sg	42	17.18	
ELYF	0.30	225	Pg	42	11.66	0.2
ESCF	0.32	164	Pg	42	11.40	-0.3
BOH	0.37	219	Pg	42	12.66	0.3
ISSF	0.37	191	Pg	42	12.66	0.3
			Sg	42	19.62	
JAU	0.42	145	Pg	42	13.07	-0.2
LHE	0.48	173	Pg	42	14.33	0.3
			Sg	42	22.67	
EPF	0.84	115	Pn	42	20.60	1.2
			Pg	42	21.00	
			Sg	42	32.10	
EGRA	1.22	167	ePn	42	31.00	6.2X
			eSn	42	54.00	
SALF	1.52	114	Pg	42	33.89	4.8X
ECRI	1.54	240	ePn	42	35.00	5.6X
			eSn	42	57.00	
LFF	1.87	33	Pn	42	35.20	1.1
			Pg	42	39.60	
			Sg	43	02.60	
LPO	1.88	46	Pn	42	35.40	1.1
			Pg	42	39.70	
			Sg	43	04.60	
RJF	2.49	39	Pn	42	43.40	0.4
			Pg	42	51.00	
			Sn	43	12.80	
			Sg	43	22.30	
CAF	2.51	51	Pn	42	44.30	0.9
			Pg	42	51.60	
			Sn	43	12.90	
			Sg	43	23.40	
EBR	2.71	161	eP	43	25.00	38.9X
ETOR	2.76	202	ePn	42	52.00	5.2X
			eSn	43	29.50	
MFF	3.24	7	Pn	42	54.00	0.4
			Pg	43	05.70	
			Sg	43	46.20	
LSF	3.27	28	Pn	42	53.90	-0.2
			Sn	43	31.30	
			Sg	43	46.20	
TCF	3.56	35	Pn	42	57.70	-0.5
			Pg	43	11.10	
			Sg	43	55.30	
MAF	3.66	38	Pn	42	58.90	-0.7
			Pg	43	12.20	
			Sn	43	40.30	
			Sg	44	00.30	
BGF	4.05	37	Pn	43	04.30	-0.8
			Sg	44	12.20	
AVF	4.45	39	Pn	43	09.60	-1.2
			Pg	43	26.30	
			Sg	44	22.60	
SMF	4.58	43	Pn	43	12.00	-0.7
			Sg	44	28.20	
LPF	4.65	357	Pn	43	13.40	-0.2
			Pg	43	32.10	
			Sn	44	05.00	
			Sg	44	30.10	
SSF	4.72	38	Pn	43	13.40	-1.3
			Sg	44	32.80	
LBF	4.88	41	Pn	43	15.60	-1.4
			Sg	44	38.20	
GRR	5.00	359	Pn	43	18.50	-0.1
			Sn	44	12.70	
LOR	5.04	38	Pn	43	19.00	-0.2
			Sg	44	42.90	
LDF	5.22	4	Pn	43	22.00	0.3
			Sn	44	17.80	
			Sn	44	48.80	

S.D. = 0.8 on 27 of 32 obs.

? MAY 24, 1993 13h 47m 17.46± 2.95s
39.657 N ±22.8km 29.497 E ±15.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.6 (ISK).

DST	0.67	266	ePg	47	31.00	0.1
			eSg	47	42.00	
YLV	0.91	354	ePn	47	35.30	0.3
EYL	1.04	29	ePn	47	37.00	-0.2
KCT	1.06	304	iPn	47	37.10	-0.3

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

% MAY 24, 1993 14h 05m 50.28± 0.86s
40.495 N ± 6.8km 23.060 E ± 7.1km
DEPTH = 10.0km (geophysicist)
GREECE (364)

THE	0.16	332	ePg	05	54.30	0.4
			eSg	05	56.94	

24d 14h

SOH 0.40 34 ePg 05 58.34 -0.1
KNT 0 68 350 ePg 06 03.34 -0.4
eSg 06 14.50
GRG 0.68 313 ePg 06 03.74 -0.1
eSg 06 14.00
OUR 0.72 103 ePg 06 04 70 0.2
PAIG 0.74 140 ePg 06 04.60 -0.2
SRS 0.74 33 ePg 06 04.82 0.0
eSg 06 16.90
S.D. = 0.3 on 7 of 7 obs.

? MAY 24, 1993 14h 11m 20.11± 4.62s
39.491 N ±33.9km 29.537 E ±20.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.6 (ISK).

DST 0.71 280 ePg 11 34.50 0.3
eSg 11 46.50
YLV 1.08 353 ePn 11 41.20 0.7
EYL 1.18 24 ePn 11 41.80 -0.3
KCT 1.18 310 ePn 11 41.50 -0.7
S.D. = 1.1 on 4 of 4 obs.

MAY 24, 1993 14h 14m 32.11± 0.44s
41.842 N ± 3.9km 22.864 E ± 3.7km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 2.7 (SKO).

KKB 0.17 81 iPgd 14 36.00 0.1
VAY 0.57 203 iPg 14 42.80 -0.8
iSg 14 50.00
KNT 0.68 178 ePg 14 44.84 -0.8
eSg 14 55.60
MMB 0.69 111 iPgc 14 46.00 0.1
VTS 0.79 19 iPgc 14 47.00 -0.6
SRS 0 91 143 ePg 14 49.28 -0.2
eSg 15 02.50
GRG 0 95 202 iPg 14 49.72 -0.5
SKO 1.07 277 iPg 14 53.30 1.0
iSg 15 07.30
SOH 1.08 160 ePg 14 52.60 0.1
eSg 15 08.68
PGB 1.20 53 eP 14 54.00 -0.5
THE 1.21 176 ePb 14 54.28 -0.4
eSb 15 12.00
RZN 1.39 96 iPc 14 58.00 0.2
PLD 1.40 79 eP 14 58.00 0.4
FNA 1.54 227 ePb 15 00.16 0.5
eSb 15 21.48
OHR 1.71 245 ePn 15 01.30 -0.9
OUR 1.73 150 ePb 15 02.28 0.0
eSb 15 26.70
LIT 1.76 189 ePb 15 04.28 1.4
PAIG 2 01 162 ePn 15 07.30 0.9
PVL 2.28 52 eP 15 13.00 2.6X
S.D. = 0.7 on 18 of 19 obs.

? MAY 24, 1993 14h 16m 47.01± 3.33s
31.054 S ±68.0km 68.543 W ±18.5km
DEPTH = 99.3 ± 30.6 km
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.28 167 ePc 17 02.00 0.3
RTCB 0.48 207 ePd 17 02.30 -0.6
S 17 13.50
CFA 0.61 155 ePd 17 04.00 0.1
S 17 16.20
RTBS 0.99 232 e(P)c 17 07.70 0.2
S 17 22.90
TCA 3.40 96 iPd 17 39.00 -0.1
S 18 17.30
S.D. = 0.8 on 5 of 5 obs.

% MAY 24, 1993 14h 36m 29.00± 0.65s
37.751 N ± 6.6km 15.017 E ± 5.4km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO 0.31 305 P 36 36.00 0.4
eSg 36 41.00
ATN 0.54 41 Pc 36 39.80 -0.1
eSg 36 48.80
MEU 0.65 186 P 36 41.80 -0.3
eSg 36 51.50
GIB 0.82 287 P 36 44.10 -0.8
eSg 36 57.70
SOI 0.88 68 P 36 46.20 0.3
eSg 37 01.30
FAI 1.17 246 P 36 51.40 0.6
CZI 1.71 31 P 36 58.80 -0.1
S.D. = 0.6 on 7 of 7 obs.

? MAY 24, 1993 15h 18m 13.98± 2.70s
26.080 S ± 8.1km 28.482 E ±27.9km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)

SLR 0.39 332 iP 18 22.00 0.2
S 18 36.40
PRY 1.24 227 eP 18 38.00 0.4
S 19 03.00
KSR 1.44 278 eP 18 40.50 -0.5
S 19 09.50
SEK 2.36 199 eP 18 54.00 -0.2
S 19 27.50
S.D. = 0.7 on 4 of 4 obs.

% MAY 24, 1993 15h 36m 52.49± 0.62s
41.132 N ± 6.0km 28.489 E ± 5.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK)

CTT 0.05 289 iPg 36 54.20 -0.4
YLV 0.88 130 ePg 37 09.70 0.3
eSg 37 22.20
DMK 0.88 322 iPg 37 09.80 0.4
iSg 37 21.80
BNT 0.89 209 ePg 37 10.00 0.5
KCT 0.89 187 iPg 37 09.20 -0.3
EDC 0.92 211 iPg 37 10.00 0.0
eSg 37 23.00
HRT 0.94 109 iPn 37 10.50 0.0
EYL 1.39 114 ePn 37 17.70 -0.3
S.D. = 0.4 on 8 of 8 obs.

& MAY 24, 1993 15h 46m 57.48s
34.936 N 116.904 W
DEPTH = 0.1km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 2.8 (PAS).

GSC 0.37 13 iPd 47 04.95 0.0
SSK 0.97 222 ePd 47 15.80 -1.2
eS 47 28.93
PEC 1.06 192 eP 47 17.09 -1.4
ISA 1.47 300 eP 47 23.95 -1.4
eS 47 44.06
PLM 1.58 179 eP 47 25.97 -1.0
ABL 1.91 268 ePn 47 31.82 0.1
TPNV 2.08 15 (P) 47 34.26 0.1
GLA 2.55 137 (Pn) 47 38.46 -2.4
ePg 47 44.81
BCH 2.62 276 ePn 47 42.79 0.9
9 obs. associated

& MAY 24, 1993 16h 27m 48.26s
34.031 N 116.327 W
DEPTH = 6.5km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 3.3 (PAS), 2.9 (GS).
Felt at White Water.

PEC 0.71 259 iPc 28 01.13 -1.3
eS 28 06.62
PLM 0.81 214 iPd 28 03.27 -1.1
eS 28 13.34
SSK 1.15 279 ePc 28 09.10 -1.1
eS 28 24.54
GSC 1.33 343 ePd 28 11.87 -1.3
eS 28 30.04
GLA 1.59 127 ePn 28 14.56 -2.4
ePg 28 17.34
ISA 2.40 313 ePn 28 26.40 -2.4
ePg 28 31.75
eS 29 02.66
A8L 2.53 290 ePnd 28 28.12 -2.5
ePg 28 34.09
BCH 3.31 291 ePn 28 39.73 -1.9
TNP 4.11 350 ePn 28 51.36 -1.7
ePg 29 03.68
BONR 4.23 338 ePn 28 51.95 -3.0
ARUT 4.42 31 ePn 28 55.79 -1.7
ePg 29 10.39
MSU 5.59 36 ePn 29 11.43 -2.7
ePg 29 30.53
12 obs. associated

MAY 24, 1993 19h 07m 14.29± 0.58s
51.640 N ±11.6km 171.730 W ± 5.7km
DEPTH = 33.0km (normal)
4.8mb (37 obs.) 4.3Msz (2 obs.)
FOX ISLANDS, ALEUTIAN ISLANDS (9)

ADK 3.09 276 eP 08 00.62 -1.2
eS 08 35.79
SVW 12.99 37 (P) 10 20.47 1.5
TTA 14.10 31 (P) 10 32.20 -1.4
SLKM 14.87 45 (P) 10 45.32 1.7
PMR 15.85 42 (P) 10 54.43 -1.8
0.3s 3.27nm 4.0mb
IMA 17.11 25 (P) 11 11.19 -1.1
1.0s 4.49nm 3.6mb X
KLU 17.19 45 (P) 11 12.56 -0.7
BALM 18.65 48 (P) 11 29.99 -1.3
SKR 20.12 280 eP 11 55.50 7.6X
0.6s 40.00nm 4.9mb
Z 14s 0.50um 4.0MszX
E 14s 0.40um
MGD 22.38 307 eP 12 21.00 10.3X
1.2s 30.00nm
e 17 00.00
MBC 31.74 21 eP 13 36.50 -0.3
NEW 34.61 74 eP 14 00.49 -1.6
0.8s 20.61nm 5.1mb
MAT 38.20 267 (P) 14 32.00 -0 4
BONR 39.42 89 (P) 14 42.08 -0.9
BOD 41.21 309 eP 14 55 60 -1.4
1.0s 12.00nm 4.6mb
BW06 41.98 77 eP 15 03.18 -0.6
0.5s 5.40nm 4.5mb
FCC 42.53 49 eP 15 16.00 8.2X
CIT 44.23 301 eP 15 21.00 -0.8
RSSD 44.53 72 eP 15 29.69 5.2X
0.6s 2.34nm 4.2mb
ULM 45.78 60 eP 15 39.50 5.4X
NRI 46.17 331 eP 15 36.00 -0.9
1.6s 14.00nm 4.7mb
e 15 47.00
e 15 52.00
GOL 46.34 78 P 15 43.21 4.2X
e 15 50.48
BJI 49.59 286 eP 16 13.50 9.5X
Z 20s 0.30um 4.3Msz
FRB 50.41 34 eP 16 09.50 -0.4
0.5s 2.00nm 4.4mb
ZAK 50.53 304 eP 16 10.50 -0.5
1.3s 15.00nm 4.8mb
DAG 50.71 8 eP 16 10.00 -2.0
MOY 50.92 307 eP 16 13.80 -0.1
JAQ 53.78 47 eP 16 35.00 -0.3
ELT 56.82 315 iPd 16 56.90 -0.5
0.8s 20.00nm 5.2mb
MIAR 56.83 75 P 17 01.98 4.2X
1.0s 5.53nm 4.5mb
LZH 59.49 291 eP 17 16.00 -0.5
1.8s 30.00nm 5.1mb
Z 20s 0.25um 4.3Msz
sP 17 25.00
LMN 64.37 48 eP 17 52.00 3.2X
ARU 64.60 332 ePd 17 49.50 -0.6
NB2 67.65 358 P 18 08.30 -1.2
0.8s 4.10nm 4.6mb
KMI 68.02 283 eP 18 11.50 -1.1
HFS 68.50 357 eP 18 13.10 -1.6
0.5s 7.20nm 5.0mb
Z 17s 64.00um 6.9MszX
LR 43 28.00
FRU 69.77 314 eP 18 23.80 0.9
1.5s 30.00nm 5.1mb
e 18 34.00
KKN 76.20 297 P 19 00.90 -0.2
CLL 77.35 357 e(P) 19 07.00 0.2
BRG 77.75 356 eP 19 08.90 -0.1
1.0s 10.00nm 4.8mb
MOX 78.05 358 e(P) 19 11.30 0.6
1.1s 8.00nm 4.7mb
PRU 78.61 356 P 19 14.40 0.6
GRF 79.02 358 iPc 19 17.10 1.1

	1.0s	15.00nm			4.9mb	
		e(pP)d	19	28.30	37kmX	
KHC	79.51	356 eP	19	19.60	0.9	
	1.0s	5.40nm			4.5mb	
		e	21	27.50		
GEC2	79.79	356 ePc	19	20.50	0.2	
	0.8s	2.99nm			4.4mb	
		e	19	25.80		
		e	19	31.60		
CDF	80.32	1 eP	19	23.50	0.3	
BSF	80.90	1 eP	19	26.40	0.1	
	1.4s	14.40nm			4.8mb	
WATA	81.36	358 iPc	19	29.40	0.7	
MOTA	81.37	358 iPd	19	29.60	0.8	
	0.9s	7.70nm			4.7mb	
LOR	81.40	3 eP	19	28.30	-0.5	
	1.0s	5.40nm			4.5mb	
WTTA	81.43	358 iPc	19	29.90	0.7	
	1.2s	10.10nm			4.7mb	
SOTA	81.49	358 iPc	19	30.00	0.6	
	0.9s	9.50nm			4.8mb	
KBA	81.57	356 iPc	19	30.90	1.1	
	0.8s	12.80nm			5.0mb	
		i	19	36.00		
SSF	81.59	3 eP	19	30.40	0.7	
	1.0s	6.60nm			4.6mb	
MAIO	81.62	320 eP	19	31.00	0.8	
AVF	81 86	3 eP	19	31.60	0.5	
	1.2s	11.30nm			4.8mb	
MFF	81 87	6 eP	19	32.00	0.8	
SMF	82.02	3 eP	19	32.50	0.5	
	1.1s	11.00nm			4.8mb	
BGF	82.07	4 eP	19	32.90	0.7	
	1 0s	8.20nm			4.7mb	
RBL	82.19	356 P	19	33.20	0.2	
LSF	82.32	5 eP	19	34.10	0.5	
MAF	82 40	4 eP	19	34.70	0.7	
	0 9s	4.40nm			4.5mb	
LPO	83.86	5 eP	19	42.40	0.9	
	1.2s	18.15nm			5.1mb	
BOB	83.97	359 P	19	43.70	1.6	
SBF	84 88	1 iPc	19	47.50	0.8	
	0.9s	17.35nm			5.2mb	
FRF	85 17	1 eP	19	49.10	1.0	
	1.0s	8.40nm			4.9mb	
LRG	85 27	1 eP	19	49.80	1.3	
	1.1s	16.35nm			5.1mb	
LMR	85.39	1 eP	19	50.20	1.0	
	1.0s	9.40nm			5.0mb	
SrO	86.07	350 iP	19	52.50	-0.1	
PGF	86 19	359 iPc	19	54.00	0.7	
	1.0s	20.80nm			5.3mb	
BCAO	123.46	348 ePKPc	26	10.50	0.8X	
	0.3s	3.00nm				
CIR	144.44	321 iPKPd	26	48.20	-0.4	
		i	27	00.00		
BUL	144.76	326 iPKPc	26	58.80	9.4X	
	1.0s	15.00nm				
SLR	149.98	322 iPKPd	27	02.50	4 9X	
	1.0s	30.00nm				
KSR	150.62	324 ePKP	27	10.00	11.4X	
PRY	151 37	322 e(PKP)	27	11.50	11.8X	
SEK	152.56	321 ePKP	27	09.50	8.1X	
	0.8s	20 00nm				
BLF	153.82	322 e(PKP)	27	23.50	20.4X	
	S.D. = 0.9	on 62 of 78 obs.				

% MAY 24, 1993 19h 38m 04.79± 1.06s
26.222 S ± 6.4km 28.208 E ±13.2km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.6 (PRE).

SLR	0.49	8 iPd	38	14.50	-0.1
		S	38	20.90	
PRY	0.96	223 eP	38	22.90	-0.8
		S	38	35.00	
KSR	1.23	287 eP	38	28.50	0.2
		S	38	46.50	
SEK	2.16	194 eP	38	42.00	0.0
		S	39	09.00	
BLF	3.39	211 iPc	39	00.20	0.6
		S	39	39.50	
FRS	4.34	215 eP	39	13.00	0.1
	S.D. = 0.6	on 6 of 6 obs.			

? MAY 24, 1993 19h 46m 32.39± 1.76s
31.303 S ±55.8km 68.643 W ±18.1km
DEPTH = 100.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.15	100 iPc	46	47.00	0.0
RTCB	0.23	216 ePd	46	47.20	-0.1
		(S)	46	58.20	
ZON	0.24	187 iPd	46	47.20	-0.1
		eS	46	58.20	
CFA	0.46	131 iPd	46	48.20	0.0
		S	47	00.20	
RTBS	0.78	242 iPd	46	50.80	0.1
	S.D. = 0.1	on 5 of 5 obs.			

& MAY 24, 1993 19h 51m 31.50s
40.455 N 125.390 W
DEPTH = 5.0km
OFF COAST OF NORTHERN CALIFORNIA(34)
<BRK>. ML 3.6 (BRK). MD 3.3 (GM).

KSMM	0.97	106 P	51	48.97	-1.5
FOX	1.07	86 iP	51	51.32	-0.7
		eS	52	06.48	
ARC	1.09	67 eP	51	51.09	-1.3
		eS	52	04.83	
FHC	1.12	72 iP	51	51.79	-1.3
		eS	52	06.40	
KBRM	1.13	75 P	51	51.86	-1.3
KCRM	1.20	91 P	51	53.06	-1.3
KRPM	1.25	55 P	51	53.86	-1.4
KHMM	1.33	71 P	51	54.84	-1.8
KBSM	1.48	111 P	51	56.81	-2.1
KPPM	1.55	93 P	51	58.90	-1.1
KKPM	1.60	100 P	51	57.56	-3.1
KHBM	1.67	82 P	51	59.81	-1.9
KFPM	1.72	118 P	51	59.88	-2.4
KSPM	1.73	122 P	51	59.29	-3.1
GBDM	1.89	122 P	52	02.65	-2.2
LBPM	1.92	93 P	52	03.61	-1.7
WDC	2.18	86 eP	52	06.70	-2.2
		eS	52	30.61	
GAS	2.20	110 P	52	07.11	-2.3
GCWM	2.22	126 P	52	07.09	-2.5
GHLM	2.31	127 P	52	08.35	-2.6
LBFM	2.80	70 eP	52	16.74	-1.3
MIN	2.89	91 iP	52	16.67	-2.6
OSUM	2.97	112 P	52	17.26	-2.9
ORV	3.12	105 eP	52	21.00	-1.3
	24 obs. associated				

? MAY 24, 1993 20h 52m 46.16± 0.92s
37.074 N ± 8.2km 5.682 W ± 8.6km
DEPTH = 10.0km (geophysicist)
SPAIN (377)
mbLg 2.8 (MDD).

EPRU	0.38	107 iPgc	52	54.00	0.1
		eSg	53	00.00	
EJIF	0.64	165 ePg	52	59.00	-0.1
		eSg	53	09.00	
EHOR	0.82	25 ePg	53	02.00	-0.1
		eSg	53	12.10	
EVAL	0.99	301 ePg	53	05.00	0.1
		eSg	53	18.70	
	S.D. = 0.2	on 4 of 4 obs.			

? MAY 24, 1993 21h 25m 02.12± 1.45s
33.072 S ±12.7km 70.032 W ±21.3km
DEPTH = 120.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)
MD 3.4 (SAN).

FCH	0.33	220 iPd	25	19.61	-0.4
		iS	25	33.13	
PEL	0.55	262 iP	25	20.66	-0.1
		iS	25	35.25	
JACH	0.61	309 iP	25	21.29	0.1
		iS	25	35.92	
PCH	0.68	216 iP	25	21.85	0.2
		iS	25	37.27	
ROCH	0.83	277 iP	25	23.20	0.1
		iS	25	38.97	
TACH	0.95	232 iP	25	24.07	0.1
		iS	25	40.72	
CHCH	1.00	211 iP	25	24.93	0.4
		iS	25	42.43	
LCCH	1.35	252 iP	25	28.22	0.1
		iS	25	47.76	
LNV	1.45	232 iP	25	28.89	-0.4
		iS	25	49.03	
	S.D. = 0.3	on 9 of 9 obs.			

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* MAY 24, 1993 21h 47m 21.74± 2.10s
29.128 N ±22.6km 32.436 E ± 7.4km
DEPTH = 10.0km (geophysicist)
EGYPT (553)
MD 3.4 (HLW).

KOT	0.96	327 ePg	47	40.50	0.6
		eSn	47	52.00	
HLW	1.20	308 ePb	47	43.70	-0.4
		eSg	47	59.00	
SAGI	2.22	60 eP	47	59.40	0.2
		eS	48	34.30	
PRNI	2.54	61 eP	48	04.30	0.7
HSHJ	2.61	83 P	48	04.70	0.0
ARVI	2.82	57 eP	48	08.20	0.5
SHWJ	2.94	64 P	48	09.40	-0.2
DHLJ	3.08	56 P	48	11.00	-0.2
MASJ	3.84	47 P	48	21.70	-0.5
SALJ	4.01	43 P	48	24.10	-0.5
	S.D. = 0.5	on 10 of 10 obs.			

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* MAY 24, 1993 23h 10m 29.25± 1.62s
36.592 N ± 8.1km 7.450 W ±22.8km
DEPTH = 10.0km (geophysicist)
STRAIT OF GIBRALTAR (385)

EVAL	1.14	29 eP	10	50.90	0.3
EHOR	2.14	54 eP	11	06.80	1.3
EGUA	3.13	84 eP	11	24.20	4.6X
		eS	11	54.00	
IFR	3.61	147 iPn	11	26.00	-0.6
		iSn	12	05.00	
EPLA	3.63	17 iP	11	26.00	-0.7
		eS	11	58.20	
EVIA	4.43	61 eP	11	37.20	-0.9
		eS	12	18.20	
TIO	5.65	178 iPn	11	56.00	0.5
		iSn	12	56.50	
	S.D. = 1.1	on 6 of 7 obs.			

? MAY 24, 1993 23h 47m 43.44± 4.71s
16.409 S ±38.8km 173.833 W ±56.7km
DEPTH = 33.0km (normal)
4.6mb (1 obs.)
TONGA ISLANDS (173)

DZM	19.45	250 iPc	52	10.30	-0.2
HBZ	22.22	197 eP	52	39.90	1.2
KUZ	22.28	203 eP	52	40.00	0.8
URZ	23.18	198 eP	52	48.10	0.0
MOZ	24.17	202 eP	52	59.30	1.6
ORZ	27.05	203 P	53	22.90	-1.8
THZ	27.73	202 eP	53	29.70	-1.2
LTZ	28.85	202 eP	53	38.00	-3.0X
CTA	38.02	258 eP	55	02.00	1.4
OLP	40.15	248 eP	55	17.70	-0.5
STK	43.18	241 eP	55	41.80	-1.2
	0.6s	8.20nm			4.6mb
WB2	49.20	258 eP	56	30.90	0.1
	0.4s	52.20nm			5.9mb X
ASPA	49.41	253 iPd	56	32.40	0.0
	0.8s	147.30nm			6.1mb X
KNA	54.99	262 eP	57	15.50	1.2
WARB	55.90	249 eP	57	14.20	-6.6X
BAL	64.37	244 eP	58	17.40	-1.3
	S.D. = 1.2	on 14 of 16 obs.			

MAY 24, 1993 23h 51m 20.83± 0.11s
23.238 S ± 2.7km 66.631 W ± 2.7km
DEPTH = 221.0km (geophysicist)
6.2mb (121 obs.)
JUJUY PROVINCE, ARGENTINA (128)
Foreshock. Depth from broadband displacement seismograms.
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=355 Dip=82 Slip= -90
NP2: 175 8 -90
Principal Axes:
T Plg=37 Azm= 85
P 53 265
Comment: The focal mechanism is

24d 23h

poorly controlled and corresponds to normal faulting. The preferred fault plone is NP1.

HJA	1.13	89	ePd	51	59.00	5.2X
YJA	1.49	45	ePd	51	52.50	-4.7X
SLA	1.81	145	iPd	51	58.00	-1.7X
MOCB	2.18	25	P	52	04.90	1.3
FSA	2.89	169	iPd	52	08.00	-2.7X
CYA	5.24	172	iPc	52	35.70	-3.7X
CCH	5.84	5	P	52	47.50	0.1
CNCB	6.52	349	P	52	57.30	1.0
LPB	6.81	348	iPc	52	00.70	-59.2X
RTPR	7.04	179	P	52	56.79	-5.5X
ZOBO	7.07	348	iP	53	01.90	-1.6X
RTRS	7.35	200	eP	53	02.50	-3.9X
ARE	8.14	325	iPd	53	13.70	-3.5X
RTLL	8.22	191	iPd	53	11.30	-6.6X
TCA	8.27	168	iPc	53	12.70	-5.9X
RTCB	8.44	193	eP	53	13.50	-7.3X
CFA	8.46	189	ePd	53	14.70	-6.3X
ZON	8.47	192	eP	53	15.40	-5.8X
RTBS	8.76	196	iPd	53	20.00	-4.7X
SIV	8.91	37	P	53	25.40	-1.4X
MRA	9.17	175	eP	53	23.00	-7.0X
MDZ	9.81	191	iP	53	33.90	-4.4X
			i	54	23.00	
			i(S)	54	46.70	
JACH	10.04	200	eP	53	35.22	-6.0X
ROCH	10.44	201	eP	53	39.63	-6.9X
PEL	10.49	199	eP	53	40.59	-6.5X
FCH	10.56	197	eP	53	43.36	-4.8X
SAN	10.78	198	eP	53	45.70	-4.9X
PCH	10.89	197	eP	53	46.38	-5.8X
TACH	11.04	199	eP	53	46.80	-7.2X
LCCH	11.08	202	eP	53	46.24	-8.3X
CHCH	11.22	197	eP	53	49.11	-7.2X
LNV	11.47	200	eP	53	51.24	-8.1X
LPA	13.89	149	iPd	54	26.20	-3.4X
	0.9s	3361.34nm			6.7mb	
			iScS	06	20.00	
LPA	13.89	149	iPc	54	38.00	8.4X
	0.9s	2043.70nm			6.5mb	
PPD	14.20	88	iPc	54	32.00	-1.6X
NNA	14.82	317	iPd	54	40.50	-0.8
	0.5s	380.28nm			6.1mb	
Z	20s	2.13um			6.9MszX	
			eS	57	20.50	
RIFB	18.06	84	ePc	55	17.50	-0.9
VAO	18.09	93	eP	55	16.50	-2.3X
CDCB	20.57	86	iPc	55	43.20	-0.7
			e	00	12.00	22kmX
			i	55	49.00	
			e	56	13.10	
			e	56	31.90	
			e	56	49.70	
			eS	59	19.20	
PSO	26.42	335	iPd	56	41.00	1.4
PURC	27.12	338	iPd	56	46.88	0.9
SILC	27.45	339	ePd	56	48.91	0.0
DIAC	27.97	339	iPd	56	53.71	0.4
HOOC	28.28	339	ePd	56	54.82	-1.4
AZUC	28.33	340	iPd	56	55.61	-1.3
BOG	28.63	344	iPd	57	00.00	0.7
FUO	29.36	345	iP	57	05.00	-0.8
TPP	33.73	9	eP	57	44.52	1.2
TBH	33.95	10	eP	57	46.26	1.0
TCE	34.06	9	eP	57	46.73	0.6
TRN	34.06	9	eP	57	46.06	-0.1
PIG	34.65	10	eP	57	51.87	0.7
BOT	34.68	10	eP	57	51.80	0.4
TPR	34.69	10	eP	57	52.04	0.6
GRW	35.51	8	eP	57	58.17	-0.3
FCV	36.55	9	eP	58	06.17	-0.9
SVB	36.66	9	eP	58	07.20	-0.9
SVV	36.71	9	eP	58	07.69	-0.8
SLB	37.24	9	eP	58	12.16	-0.8
SLW	37.45	9	eP	58	14.57	-0.1
BIM	37.91	9	ePd	58	17.31	-1.2
MVM	37.98	9	ePd	58	17.97	-1.1
FDF	38.12	9	ePd	58	18.80	-1.4
			S	03	52.80	
CRM	38.17	9	eP	58	19.37	-1.3
DPMT	38.60	8	eP	58	22.67	-1.5
MDN	38.66	8	eP	58	22.89	-1.8
PAG	39.33	8	ePd	58	28.37	-1.8
DOG	39.33	8	ePd	58	28.32	-1.9
DEG	39.68	8	ePd	58	30.60	-2.5X
MGH	39.95	7	eP	58	32.00	-3.2X
BPA	40.31	7	ePd	58	35.20	-3.0X
NEV	40.32	6	eP	58	37.52	-0.8
SKI	40.50	6	eP	58	34.70	-5.1X
CPB	40.90	7	eP	58	40.19	-2.8X
MGP	41.00	359	P	58	41.60	-2.2
CPD	41.03	1	P	58	41.00	-3.1X
PORP	41.04	360	P	58	41.80	-2.4
CLLP	41.06	0	P	58	42.10	-2.2
SJG	41.10	1	iP	58	42.30	-2.4
LRS	41.28	360	P	58	43.40	-2.8X
LPR	41.30	1	P	58	43.50	-2.9X
APR	41.43	360	P	58	45.10	-2.3
PCJ	42.01	345	iPd	58	50.81	-1.3
AIA	42.03	179	eP	58	50.60	-1.2
HOJ	42.16	346	iPd	58	52.28	-1.1
STH	42.25	346	iPd	58	52.57	-1.5
			S	00	39.98	
BBJ	42.65	345	iPd	58	55.66	-1.7
YUP	43.57	326	ePd	59	05.64	0.6
IXG	43.89	326	ePd	59	07.99	0.5
MRL	44.25	327	ePd	59	10.55	0.2
GCG	44.27	326	eP	59	11.85	1.3
SLP	44.28	326	ePd	59	11.23	0.6
BVA	44.40	326	ePd	59	12.29	0.6
TPX	45.45	324	(P)	59	20.12	0.5
SCX	47.17	325	(P)	59	34.41	1.3
OXX	49.71	321	(P)	59	54.38	1.5
ACX	51.42	318	(P)	00	06.95	1.4
IISM	51.60	322	(P)	00	08.45	1.6
IIT	52.16	321	(P)	00	12.92	1.6
III	52.34	319	(P)	00	14.12	1.6
PPM	52.38	321	(P)	00	14.49	1.3
IIA	52.46	321	(P)	00	15.07	1.9
UNM	52.91	320	(P)	00	17.50	0.7
MRX	54.39	319	(P)	00	28.84	1.6
CGX	55.79	317	(P)	00	39.07	1.5
AGX	56.72	320	(P)	00	46.43	2.6X
HBF	57.38	346	iPd	00	47.70	-0.5
SGS	57.66	346	iPd	00	49.60	-0.6
GOGA	58.57	344	ePd	00	54.89	-1.7
	0.6s	594.99nm			6.5mb	
Z	22s	16.34um			6.1Msz	
			S	08	48.71	
			eScS	10	22.22	
JSC	58.86	346	eP	00	57.14	-1.4
PRM	58.94	345	iPd	00	57.79	-1.3
SNA	59.72	159	iPc	01	01.50	-2.5
	0.9s	1770.00nm			6.8mb	
CEH	59.98	348	ePd	01	04.70	-1.4
	0.8s	1224.98nm			6.6mb	
Z	22s	12.46um			6.0Msz	
			S	09	03.27	
			e	10	34.15	
MZX	60.22	317	(P)	01	09.33	1.4
TKL	60.78	344	ePd	01	09.09	-2.5X
GBTN	60.90	344	iPd	01	10.54	-1.9
MBO	61.32	57	iPc	01	14.30	-1.2
CBN	61.94	350	iPc	01	18.40	-0.8
	0.1s	250.00nm			6.9mb	
MIAR	62.91	335	iPd	01	24.34	-1.3
	0.5s	565.69nm			6.6mb	
Z	20s	8.35um			5.9Msz	
			S	09	42.99	
			eP'P'	30	20.52	
			epRPKP	31	12.52	
UYO	62.92	334	iPd	01	24.20	-1.6
GRT	62.98	339	iPc	01	24.54	-1.5
			eP'P'	30	20.78	
			epRPKP	31	24.61	
OLY	62.98	337	iPd	01	24.00	-2.1
			eP'P'	30	24.55	
			esRPKP	31	22.38	
LTX	63.26	324	eP	01	19.43	-8.8X
MCWV	63.77	349	eP	01	30.33	-0.9
	0.6s	1278.91nm			6.9mb	
Z	22s	16.44um			6.2Msz	
			epP	02	28.33	254kmX
ELC	63.85	340	iPd	01	29.63	-2.1
			iP'P'	30	26.66	
			epRPKP	31	23.52	
KDS	64.04	62	iPc	01	31.00	-2.4
GMTN	64.18	354	iP	01	33.10	-0.6
			i	30	19.30	
PNJ	64.20	354	iP	01	32.95	-0.9
GPD	64.34	353	iPd	01	34.35	-0.5
NVL	64.46	159	iPc	01	34.00	-1.3
	1.0s	1508.00nm			6.7mb	
Z	17s	8.00um			6.0MszX	
N	17s	3.00um				
E	17s	7.00um				
			ipP	02	24.00	215kmX
			ePP	04	08.00	
			ePPP	05	30.00	
			ePcS	06	24.00	
			iS	09	56.00	
			esS	11	10.00	
			e	12	50.00	
			iSS	14	13.00	
			eSSS	17	20.00	
FVM	64.87	339	iPd	01	36.59	-1.7
Z	20s	26.31um			6.4Msz	
			epP	02	31.62	239kmX
			eP'P'	30	09.69	
			e	31	25.73	
FNO	65.08	333	iPc	01	37.70	-2.0
CCM	65.21	339	eP	01	38.05	-2.4
OCO	65.34	333	iPc	01	42.30	1.0
SLM	65.41	340	P	01	50.00	8.3X
Z	19s	6.04um			5.8Msz	
LIC	66.88	72	Pc	01	49.60	-1.9
Z	20s	21.20um			6.4Msz	
			S	10	22.00	
SPA	66.91	180	iPd	01	50.10	-1.1
	1.0s	610.00nm			6.3mb	
			i	02	48.70	254kmX
TIC	67.09	72	Pc	01	50.80	-2.1
			S	10	22.00	
STCO	67.12	350	P	01	50.86	-1.5
TYNO	67.12	350	P	01	50.70	-1.7
DLA	67.19	348	P	01	51.10	-1.8
KIC	67.20	72	Pc	01	51.30	-2.2
			S	10	28.00	
LDN	67.30	348	P	01	52.10	-1.5
ELF	67.47	348	P	01	53.10	-1.5
ACTO	67.65	349	P	01	53.83	-1.9
WLVO	67.70	351	P	01	54.22	-1.8
LMN	68.78	1	ePd	02	04.50	1.9
GAC	69.08	353	iPd	02	04.70	0.3
			pP	03	04.50	258kmX
CHIE	69.09	45	iP	02	04.00	-0.9
TBT	69.76	45	eP	02	07.40	-1.6
	0.7s	280.40nm			6.1mb	
CBM	69.85	359	iPd	02	08.77	-0.3
	0.7s	626.26nm			6.5mb	
Z	20s	11.42um			6.1Msz	
			epP	03	05.57	243kmX
EEO	70.45	351	iPd	02	14.80	2.0
GGC	70.89	47	iP	02	15.00	-0.9
CFTV	72.12	47	iP	02	04.00	-19.1X
GOL	72.31	330	iPd	02	24.05	-0.2
	1.5s	2239.53nm			6.7mb	
BLE	73.69	120	iPd	02	31.00	-1.3
	1.0s	280.00nm			5.9mb	
			e	09	26.50	
PLM	73.87	318	P	02	31.46	-1.9
CER	74.37	120	iPc	02	34.00	-2.2
	1.0s	1220.00nm			6.6mb	
SRU	74.38	326	eP	02	35.57	-0.6
PEC	74.42	318	eP	02	36.19	-0.2
MSU	74.80	325	ePd	02	38.85	0.1
			e	02	39.34	2kmX
SSK	74.96	318	iPd	02	40.04	0.4
ARUT	74.96	323	iPd	02	40.49	0.9
			P'P'	30	02.88	
			epRPKP	31	01.53	
EMUT	75.06	326	iPd	02	40.40	0.3
GSC	75.16	319	ePd	02	40.91	0.3
RSSD	75.28	333	iPc	02	41.12	-0.1
	0.7s	1028.23nm			6.7mb	
Z	20s	8.55um			6.0Msz	
			eP'P'	29	53.56	
			e	33	01.31	
DAU	75.73	326	iPd	02	44.53	0.6
RUV	75.83	259	iPd	02	45.40	0.8
	2.0s	5728.30nm			7.0mb	
SUR	75.89	119	iPc	02	41.30	-3.8X
	0.7s	662.00nm			6.5mb	
Z	20s	110.00um			7.2Msz	
TPNV	75.96	321	iPd	02	45.99	0.8
	0.5s	320.73nm			6.3mb	
Z	21s	10.84um			6.1Msz	

WIN	75.96	109	iPc	02	43.50	-2.1					e	12	52.00			ASR	85.12	325	Pd	03	33.48	0.5
	1.0s	770.00nm			6.4mb		BUT	80.53	329	iPd	03	10.78	1.0		ENIJ	85.23	46	P	03	30.03	-3.6X
	Z 22s	66.10um			6.9Msz					epP	04	04.45	222kmX		ERUA	85.27	40	iPd	03	34.50	0.8
		e	12	06.50						eS	13	00.70			PAB	85.30	43	ePc	03	34.24	0.2
VAH	76.03	259	iPd	02	46.40	0.6				esS	14	39.60				1.8s	1687.43nm			6.5mb		
TPT	76.11	259	iPd	02	47.10	0.9	NTYM	80.72	319	eP	03	10.69	0.1					epP	04	30.90	234kmX	
	2.0s	******nm			7.2mb	X	ORV	80.77	320	iPd	03	11.42	0.5		WTV	85.30	327	P	03	34.05	0.2
POF	76.15	116	iPc	02	45.50	-0.8				epP	04	10.08	245kmX		EHUE	85.45	46	iPc	03	35.00	0.2
	1.0s	650.00nm			6.3mb		IFR	81.31	48	iPd	03	15.50	1.4		SHW	85.48	325	iPd	03	35.00	0.2
		e	12	43.00						i	13	07.00			LON	85.62	326	eP	03	34.97	-0.4
ABL	76.32	318	iPd	02	47.56	0.3	MIN	81.34	321	iPd	03	13.36	-0.7		KMOR	85.80	324	P	03	36.91	0.6
PMO	76.36	259	iPd	02	48.30	0.8		1.6s	1320.00nm			6.4mb			EVIA	85.96	45	iPd	03	38.00	0.7
DUG	76.37	325	ePc	02	47.48	0.1	SWZ	81.36	116	eP	03	13.20	-1.3		GUD	86.05	43	iPd	03	38.80	1.1
	1.0s	663.20nm			6.3mb			0.6s	390.00nm			6.3mb			EALH	86.24	46	iPd	03	39.00	0.4
	Z 20s	13.11um			6.2Msz		BLF	81.36	118	iPc	03	13.00	-1.5		JCW	86.63	327	Pd	03	39.60	-0.6
TVO	76.61	256	iPd	02	49.60	0.6		0.6s	923.00nm			6.7mb			GMW	86.65	326	iPd	03	39.97	-0.3
	1.7s	4434.90nm			6.9mb					e	13	05.00			FRB	86.70	359	ePd	03	39.50	-0.6
BW06	76.68	329	ePd	02	48.42	-0.7	LIS	81.81	42	iPd	03	18.00	1.7			1.0s	399.00nm			6.2mb		
		e	02	48.87	1kmX		TSY	81.82	46	iPd	03	20.50	4.1X		ONR	86.74	325	P	03	41.35	0.6
PPN	76.85	256	iPd	02	50.90	0.6	WDC	82.04	320	ePc	03	06.99	-10.5X		BUL	86.83	110	iPd	03	41.70	-0.3
	1.8s	2368.50nm			6.6mb			1.1s	790.00nm									iS	14	00.00		
PAE	76.94	256	iPd	02	51.30	0.6				epP	04	13.99	283kmX		ACU	87.27	46	iPd	03	44.00	0.5
	1.3s	2356.70nm			6.8mb					esP	04	34.99			BCAO	87.30	84	iPc	03	44.00	-0 2
PPT	76.97	256	iPd	02	51.60	0.7				iS	13	10.99				1.1s	292.00nm			6.0mb		
	0.2s	6352.30nm			8.1mb	X				isS	14	38.99						ic	04	37.00	216kmX	
BCH	77.08	318	iPd	02	52.01	0.7				eSS	18	35.99						id	07	05.80		
		eP'P'	30	03.25						isSS	20	14.99			MCW	87.40	327	eP	03	44.00	0.1
JAQ	77.12	354	iPd	02	49.30	-1.6				e	26	22.99			ETOR	87.46	43	P	03	45.81	1.3
AFR	77.16	256	iPd	02	52.40	0.4				e	31	43.99			ECHE	87.48	45	iPd	03	45.50	1.0
	1.2s	1052.00nm			6.4mb		MAW	82.06	163	P	03	16.50	-0.7		STW	87.49	326	Pd	03	45.02	0.7
TNP	77.30	321	eP	02	52.80	0.2		1.0s	516.67nm			6.2mb			DRV	88.15	190	iP	03	46.50	-0.8
		epP	03	34.51	170kmX			Z 10s	12.07um			6.6MszX						PP	07	15.00		
HVU	77.51	326	iPd	02	53.56	0.0	LBFM	82.16	321	iPd	03	18.30	0.0					SKS	14	05.00		
ULM	77 62	341	iPd	02	55.60	1.8				eP'P'	29	46.81						S	15	20.00		
PKEM	77 66	318	eP	02	54.65	0.3				epRPKP	30	49 02						SS	22	24.00		
		e	04	25.97	406kmX					i	32	51.01			ECRI	88.18	42	iPd	03	49.00	1.2
PHAM	77.70	318	eP	02	54.65	0.1	SFS	82.31	45	iP	03	21.00	2.1		LSZ	88.39	106	iPd	03	50.00	0.5
BONR	77.84	321	iPd	02	56.32	0.7	CPS	82.33	46	iPd	03	20.50	1.5					i	04	47.00	234kmX	
MEMM	78 02	320	iPd	02	57.46	1.2	CNIL	82.35	45	iP	03	20.50	1.4					i	07	32.50		
OUK	78 08	48	iPd	02	58.50	1.8	PLAT	82.40	46	iP	03	20.50	1.0					i	10	20.00		
TIO	78.34	49	iPc	02	58.80	0.4	EVAL	82.62	44	iPd	03	21.50	1.0		CIR	89.02	112	iPc	03	53.00	0.7	
		i	04	05.00	282kmX		GIBL	82.69	45	iP	03	22.00	1.1					iPP	07	17.00		
KVN	78.46	322	ePd	02	59.11	0.2	EJIF	82.78	45	iPd	03	24.00	2.6X					i	14	29.80		
		epP	03	54.29	231kmX		SEK	82.82	118	iPc	03	22.00	-0.1					i	21	30.00		
SAO	78.94	318	iPd	03	01.74	0 4				e	13	18.00			EROO	89.04	44	eP	03	52.70	0.9	
	1.3s	790.00nm			6.3mb		ALJ	82.82	45	iP	03	22.50	0.8		EGRA	89.31	43	iPd	03	55.50	2.5X
CMB	79.12	320	ePd	02	57.68	-4.6X	LIJA	83.08	45	iP	03	23.50	0.5		BOH	89.37	42	P	03	54.96	1.5
	2.1s	2940.00nm			6.7mb		ARC	83.13	320	iPd	03	23.74	0.7		ELYF	89.42	42	P	03	54.41	0.8
		ipPd	03	56.68	248kmX			1.3s	1820.00nm			6.6mb			ISSF	89.46	42	P	03	55.26	1.3
		esPd	04	15.68			KSR	83.15	115	iPc	03	21.00	-2.8X		MADF	89.51	42	P	03	54.89	0.9
		iS	12	44.68				1.0s	815.00nm			6.4mb			ATE	89.55	42	P	03	55.26	1.1
		isS	14	21.68						e	12	55.50			VAL	89.59	31	iP	03	54.50	0.4
		eSS	18	04.68			PRY	83.23	116	iPd	03	22.00	-2.2		ESCF	89.63	42	P	03	55.82	1.3
		isSS	19	31.68				1.5s	1760.00nm			6.6mb			OGE	89.74	42	P	03	55.74	0.7
		e	25	17.68						e	13	22.00			ESEL	90.11	46	iPd	03	57.50	0.7
		ec	30	13.68			EPRU	83.24	45	iPd	03	25.00	1.3		EPF	90.17	42	eP	03	57.00	-0 1
TPMT	79.15	329	iPd	03	04.16	1.5	VIPM	83.52	324	Pd	03	25.95	0.8			0.8s	125.75nm			5.9mb		
LTMT	79.21	329	ePd	03	04.35	1.4	MAL	83.64	46	iPc	03	26.60	1.0		SALF	90.55	43	P	04	00.05	1.2	
ARN	79.37	318	iPd	03	04.42	0.8				i	04	21.00	224kmX		SALF	90.55	43	P	04	00.50	1.6	
MHC	79 43	318	iPd	03	04.94	0.9				iS	13	28.00			MLS	90.60	43	P	04	00.20	1.2	
	2.1s	5370.00nm			6.9mb		EHOR	83.72	44	iPd	03	27.00	0.9		CSY	90.73	179	iPd	04	00.50	1.2	
MEMT	79.49	330	iPd	03	04.79	0.5	JBO	83.74	325	Pd	03	26.88	0.8			0.8s	848.40nm			6.8mb		
AVE	79.64	47	iPc	03	06.00	0.9	TAF	83.90	48	iPd	03	29.00	1.9		LESF	90.75	43	P	04	00.22	0.5	
		i	03	38.50	128kmX					i	03	40.50	37kmX		CPZ	90.80	34	eP	03	59.80	0.1	
BGMT	79.71	329	iPd	03	05.86	0.4				i	13	33.00			CME	91.02	34	eP	03	59.10	-1.6	
MCMT	79.79	329	iPd	03	07.02	1.1	CROR	84.03	325	Pd	03	28.54	1.0		LSPF	91.10	43	P	04	01.70	0.4	
STAN	79.80	318	iPd	03	06.55	0.7	ELUQ	84.21	45	iPd	03	29.00	0.4		VDCF	91.21	44	P	04	02.48	0.6	
SXM	80.01	330	ePd	03	07.91	0.9	EGUA	84.25	46	iPd	03	29.00	0.2		ETER	91.37	44	iPd	04	03.20	0.7	
GRM	80.13	122	iPc	03	07.50	-0.4	VGB	84.27	325	ePd	03	28.95	0.3		LFF	91.42	41	eP	04	02.10	-0.6	
	1.0s	2940.00nm			7.0mb		NEW	84.31	329	iPd	03	28.17	-0.6			0.9s	220.15nm			6.2mb		
	Z 24s	44.90um			6.7MszX			0.6s	326 84nm			6.3mb			PERF	91.48	44	P	04	03.30	0.2	
		e	12	41.00				Z 19s	14.39um			6.4Msz			ECB	91.52	32	eP	04	02.20	-0.8	
BKS	80.13	318	ePd	03	06.09	-1.5	SLR	84.36	115	iPc	03	28.40	-1.4			1.1s	261.00nm			6.2mb		
	1.8s	3650.00nm			6.8mb			1.0s	2760.00nm			7.0mb			LPO	91.56	41	eP	04	02.80	-0.6	
		ipPc	04	06.09	252kmX			Z 17s	70.00um			7.1MszX				0.7s	61.05nm			5.7mb		
		esPc	04	26.09						e	13	33.00			ECP	91.61	32	eP	04	02.60	-0.8	
		iS	12	57.09			VBEM	84.40	324	Pd	03	30.12	0.6			1.0s	220.00nm			6.1mb		
		e	14	01.09			WAH2	84.47	327	Pd	03	30.03	0.4		BERT	91.76	53	iPd	04	16.00	11.4X	
		isS	14	33.09			ECOG	84.50	46	iPc	03	30.50	0.4		MFF	91.78	39	eP	04	03.70	-0.6	
		eSS	18	12.09			EPLA	84.52	42	iPd	03	31.00	1.0			0.6s	171.70nm			6.2mb		
		esSS	19	50.09			DPW	84.56	328	iPd	03	30.39	0.3		ETA	92.00	32	eP	04	04.90	-0.3	
		e	25	19.09			RAR	84.60	249	ePd	03	30.25	-0.6		LPF	92.04	38	eP	04	04.40	-1.1	
		e	30	21.09				1.5s	634.12nm			6.2mb				0.6s	111.10nm			6.1mb		
LRM	80.34	329	iPd	03	09.31	0.5	STS	84.75	39	iPc	03	30.00	-1.1		RJF	92.08	41	eP	04	05.00	-0.8	
		e	21	49.80			FCC	84.80	346	ePd	03	38.60	7.6X			0.9s	100.90nm			5.9mb		
HBMT	80.39	329	iPd	03	09.79	0.7	EBAN	84.86	45	iPd	03	33.00	1.2			Z 23s	1.47um			5.4MszX		
FRS	80.42	118	iPc	03	08.10	-1.3	SAW	85.03	327	Pd	03	32.42	0.0		CAF	92.22	41	eP	04	06.00	-0.4	

25d 00h

	0.8s	96.45nm			5.9mb			1.1s	99.00nm			6.0mb					epP	05	31.69	244kmX
GHAT	92.27	51 iPc	04	07.00	0.1	RSL	95.40	42 P	04	21.64	0.4	SRBF	97.61	40 P	04	31.16	0.3						
GRR	92.34	37 eP	04	05.60	-1.2	BHB	95.40	43 P	04	21.02	-0.1	LANF	97.62	40 P	04	30.86	-0.1						
	0.7s	225.75nm			6.3mb	PGF	95.49	46 P	04	22.35	0.7	RDP	97.65	48 Pd	04	32.20	0.9						
LSF	92.58	40 eP	04	07.20	-0.8	ROB	95.54	44 P	04	21.84	0.1	RMP	97.66	48 P	04	32.50	1.2						
	0.6s	76.10nm			5.9mb	RSP	95.54	43 P	04	22.44	0.6	HOFF	97.69	40 P	04	31.74	0.5						
FLN	92.75	37 eP	04	07.70	-1.0	ESY	95.59	31 eP	04	21.10	-0.5	SAL	97.81	44 P	04	32.80	1.0						
	0.6s	76.10nm			5.9mb	LSD	95.62	43 P	04	23.26	0.9	PGD	97.85	46 P	04	32.15	-0.2						
Z	22s	19.90um			6.5Msz	WLZ	95.70	225 P	04	23.10	0.3		1.2s	89.40nm			6.0mb						
TROT	92.79	52 iPc	04	09.50	0.2	FIN	95.72	44 P	04	22.35	-0.2	MNS	97.88	47 Pd	04	32.90	0.6						
LDF	92.86	38 eP	04	08.20	-1.1	DSZ	95.74	220 P	04	21.90	-1.0	CRE	97.90	46 Pd	04	31.80	-0.6						
	0.7s	157.85nm			6.2mb			e	05	24.90	260kmX	SFI	97.96	46 Pd	04	32.50	0.0						
TCF	93.00	40 eP	04	09.10	-0.9	EDU	95.75	30 eP	04	19.20	-3.1X	OSS	98.03	43 ePd	04	33.40	0.4						
	0.6s	66.20nm			5.9mb	EMS	95.76	42 ePd	04	23.50	0.6	ATN	98.14	52 P	04	39.36	5.8X						
HCG	93.05	33 eP	04	09.00	-1.0	MOZ	95.85	224 P	04	22.00	-1.4	ASS	98.15	47 P	04	33.30	-0.2						
	1 1s	60.00nm			5.6mb			e	05	20.30	238kmX	BNS	98.15	38 ePd	04	33.50	0.3						
HTR	93.10	34 eP	04	08.60	-1.7	CKI	95.86	44 Pd	04	23.30	0.2	Z	20s	22.00um			6.6Msz						
YRC	93.13	32 eP	04	10.50	0.2	CVT	96.02	52 P	04	26.01	2.1X			i+	05	27.00	217kmX						
MAF	93.18	41 eP	04	10.10	-0.7	ERC	96.02	51 P	04	29.79	5.7X	PAF	98.16	153 eP	04	42.00	8.4X						
	0.7s	53.35nm			5.7mb	AKU	96.02	18 iPd	04	24.90	1.6			ePPP	09	32.00							
WME	93.35	32 eP	04	11.00	-0.3		1.5s	122.22nm			6.0mb			eS	15	04.00							
	1.3s	53.00nm			5.5mb			i	05	21.20	229kmX	RFI	98.33	49 P	04	40.18	5.9X						
HAE	93.45	34 eP	04	10.30	-1.6			e	21	11.80			1.7s	175.90nm			6.2mb						
ZGN	93.51	52 iPd	04	12.50	-0.1	DIX	96.06	42 ePd	04	25.10	0.8	AQU	98.36	48 P	04	35.30	0.8						
BGF	93.52	40 eP	04	11.60	-0.7	PCP	96.08	44 P	04	24.59	0.4	RSM	98.36	46 Pd	04	34.50	0.2						
	0.7s	121.25nm			6.1mb	VITF	96.19	40 P	04	24.26	-0.3	SDI	98.38	48 P	04	34.70	0.1						
WIM	93.60	31 eP	04	12.90	0.4	ORO	96.21	43 P	04	24.40	-0.4	SIT	98.39	329 eP	04	33.74	-0.4						
KCHT	93.72	51 iPd	04	14.00	0.5	KUZ	96.27	226 P	04	25.60	0.3		1.7s	126.52nm			6.0mb						
HYF	93.76	40 eP	04	12.70	-0.7	DOU	96.28	38 P	04	25.30	0.5	Z	20s	6.14um			6.1Msz						
AVF	93.94	40 eP	04	13.20	-1.0			SKS	14	44.20				PP	08	38.06							
	0.8s	71 45nm			5.8mb			PKKP	21	11.60				SP	17	17.88							
HBZ	94.08	226 eP	04	16.70	1.4			e	21	43.10		WTS	98.41	37 eP	04	35.00	0.7						
SMF	94.16	41 eP	04	14.60	-0.7	LOMF	96.29	41 P	04	25.20	0.1		0.9s	56.60nm			6.0mb						
	0.6s	90.55nm			6.1mb	HAU	96.31	40 eP	04	24.00	-1.1			id	04	41.20	19kmX						
SSF	94.17	40 eP	04	14.10	-1.2		0.7s	65.25nm			6.0mb			e	05	34.00							
	0.7s	71.90nm			5.9mb	Z	21s	8.00um			6.2Msz			e	21	33.00							
LRG	94.18	44 eP	04	15.40	0.0	SNF	96.31	37 iPd	04	24.74	-0.2	GMB	98.44	52 P	04	35.77	0.7						
	1 1s	241.25nm			6.3mb			sP	05	22.30			1.5s	83.50nm			5.9mb						
LMR	94.22	44 eP	04	15.30	-0.3			P'P'	29	17.70		ARV	98.51	46 Pd	04	34.90	-0.2						
	0 6s	65.85nm			6.0mb	MMK	96.39	43 ePd	04	26.70	0.9	SOI	98.54	52 P	04	35.50	0.2						
SNZO	94.27	222 P	04	17.00	0.9	FAI	96.49	52 Pd	04	28.70	2.6X	TNS	98.54	39 ePd	04	35.70	0.6						
		pP	05	13.00	228kmX	UCC	96.49	37 P-	04	26.00	0.3			ec	05	23.40	191kmX						
		PP	08	00.00				sP	05	19.00		WIT	98.70	36 eP	04	37.50	1.8						
		SKS	14	18.00				PP	08	19.00				e	04	44.00	20kmX						
		S	15	39.00				SKS	14	43.00				e	05	33.00							
		SSS	23	18.00				S	15	26.00		CTI	98.71	44 P	04	36.70	0.6						
KHZ	94.31	220 P	04	16.50	0.2	BSF	96.49	41 eP	04	24.80	-1.2	DUI	98.80	49 P	04	37.20	0.6						
TUZ	94.32	216 P	04	16.40	0.2		0.7s	57.35nm			6.0mb	MOTA	98.90	42 iPc	04	36.60	-0.4						
ODZ	94.35	217 P	04	16.80	0.4	MOF	96.71	41 P	04	26.31	-0.6		1.0s	132.00nm			6.3mb						
LBF	94.41	40 eP	04	15.30	-1.2	BOB	96.76	44 Pd	04	27.90	0.7			i	04	37.80	4kmX						
	1 2s	109.20nm			5.9mb	VAI	96.81	43 Pd	04	27.30	0.0	SQTA	98.92	42 iPc	04	36.70	-0.3						
FRF	94.42	44 eP	04	16.30	-0.2	ECH	96.89	40 P	04	27.59	-0.1		1.1s	237.00nm			6.5mb						
	0.6s	49.05nm			5.9mb	WLF	96.97	39 iPd	04	28.24	0.4			i	04	38.10	4kmX						
LOR	94.48	40 eP	04	15.50	-1.3		1.7s	160.50nm			6.1mb			i	04	42.60							
	0.7s	54.25nm			5 8mb			isPc	05	25.86		SGO	98.96	50 P	04	37.70	0.5						
Z	21s	15.80um			6.5Msz			e	18	10.20		MGR	98.98	50 P	04	37.60	0.3						
CALN	94.66	44 P	04	18.86	1.0			e	21	40.70		CZI	99.04	51 P	04	37.80	0.3						
LTZ	94.84	219 P	04	19.00	0.2	TMA	96.98	43 ePd	04	28.30	-0.1	GRI	99.09	52 P	04	38.13	0.2						
	1 0s	172.00nm			6.2mb	KKH	97.00	288 eP	04	29.36	0.7	VVI	99.17	44 P	04	39.61	1.5						
EAB	94.94	30 eP	04	17.60	-1.0			epP	05	28.67	243kmX		1.2s	106.60nm			6.1mb						
	1.0s	43.00nm			5.6mb	Pil	97.00	45 Pd	04	28.90	0.7	WATA	99.19	42 iPc	04	37.90	-0.4						
REVF	94.96	44 P	04	20.12	1.0	GIB	97.04	52 P	04	29.30	0.6			i	04	39.00	3kmX						
EKA	95.00	31 P	04	18.00	-0.9	CDF	97.05	40 P	04	28.34	-0.1			i	04	45.30							
	1.2s	88.20nm			5.9mb	WLS	97.09	40 P	04	28.26	-0.4	WTTA	99.20	42 iPc	04	38.30	-0.1						
AURF	95.00	44 P	04	20.35	1.0	MHA	97.10	289 eP	04	28.77	-0.4		1.0s	178.00nm			6.5mb						
TOUF	95.01	44 P	04	20.40	0.9			e	05	09.28				i	04	39.30	3kmX						
SBF	95.06	44 P	04	20.51	0.9			epP	05	27.11	239kmX			i	05	10.20							
PTS	95.07	52 P	04	20.79	1.1	BDI	97.20	45 Pd	04	28.80	-0.4			i	05	34.40							
THZ	95.08	220 eP	04	20.30	0.3	FEL	97.24	41 P	04	29.03	-0.4			i	07	18.30							
	1.0s	80.00nm			5.9mb	ZLA	97.30	41 ePd	04	30.00	0.4			i	15	13.20							
		e	05	18.50	238kmX	PZI	97.30	53 P	04	31.47	1.6			i	15	55.30							
AUTN	95.12	44 P	04	21.03	1.0		0.9s	67.90nm			6.0mb	FG4	99.34	49 P	04	42.72	3.8X						
RRL	95.14	43 P	04	20.56	0.4	MEU	97.34	53 P	04	33.15	3.1X		1.4s	24.10nm			5.4mb						
PZZ	95.15	44 P	04	20.84	0.8		1.7s	133 30nm			6.0mb	FUR	99.35	42 iPd	04	39.40	0.6						
EAU	95.16	30 eP	04	19.70	0.1	ENN	97.35	38 iPd	04	30.10	0.5		1.3s	168.00nm			6.3mb						
STV	95.17	44 P	04	20.65	0.6		1.1s	65.80nm			5.9mb			i	08	45.10							
SAOF	95.20	44 P	04	21.05	0.9			e	04	36.00	18kmX			e	14	58.60							
ENR	95.22	44 P	04	20.24	-0.1			e	05	29.00		FG2	99.35	49 P	04	38.90	-0.1						
EBL	95.31	31 eP	04	18.90	-1.4			e	21	39.00			1.2s	69.50nm			6.0mb						
	1.3s	19.00nm			5.2mb	LLS	97.40	42 ePd	04	30.80	0.6	TDS	99.35	51 P	04	39.30	0.3						
EBH	95.36	30 eP	04	20.60	0.1	SLE	97.49	41 ePd	04	30.50	0.1	CSI	99.36	51 P	04	39.20	0.1						
IMI	95.38	44 P	04	21.02	0.0	MNO	97.50	52 P	04	32.59	1.7	KIP	99.39	289 eP	04	41.54	2.0						
LPL	95.38	43 eP	04	21.30	0.1		1.1s	130.40nm			6.2mb		1.5s	324.87nm			6.5mb						
	1.0s	161.60nm			6.2mb	FIR	97.51	46 eP	04	43.10	12.6X	ROI	99.48	51 P	04	38.80	-0.9						
LPG	95.39	43 eP	04	21.40	0.1			iS	15	50.00		FVI	99.65	43 P	04	40.70	0.6						
	0.9s	182.80nm			6.3mb	VDL	97.52	43 ePd	04	31.80	1.0	TRI	99.92	45 eP	04	41.90	0.5X						
ELO	95.39	30 eP	04	19.60	-1.1	HKL	97.60	289 eP	04	32.27	0.3			e	05	36.00	220kmX						

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                e      08 40.00
                e      15 00.90
                e      15 52.00
                e      17 20.00
                e      21 28.00
GRF    99.94   40 ePd    04 42.10    0.7X
        1.3s    93.00nm           6.1mb
      Z  22s     8.00um           6.2Msz
                e(pP) 05 38.20 229kmX
RBL   100.09   44 Pdiff 04 42.90    0.5
VOY   100.13   44 iPdiff04 43.40    0.8
                e      04 47.00
                e      04 50.90
                eSKSac15 02.80
                eSDIF 16 03.40
                ePKKP320 54.50
BHG   100.15   42 iPdiff04 43.10    0.5
        1.7s   116.00nm           6.0mb
RIY   100.19   45 iPdiff04 43.10    0.4
KBA   100.19   43 iPdiff04 42.60   -0.4
        0.9s    68.70nm           6.1mb
                i      04 43.00
                i      04 47.40
                i      05 40.70
                i      07 28.60
                iSKS   14 57.80
CEY   100.36   45 ePdiff04 44.00    0.4
                ePP    08 39.00
BRT   100.42   50 Pdiff 04 43.61   -0.3
        1.4s   165.90nm           6.3mb
LJU   100.55   44 ePdiff04 45.00    0.7
                e      05 37.00
                e(PP) 08 39.00
                eSKSac15 02.00
MOX   100.56   39 ePdiff04 44.60    0.3
        1.5s    40.00nm           5.7mb
      Z  20s     7.50um           6 2Msz
                eSKS   15 10.00
                eS     16 14.00
                PKKP   21 24.10
                P'P'   29 16.00
WET   100.71   41 ePdiff04 45.50    0.5
        1 3s    86.00nm           6.1mb
      Z  19s     6.00um           6.1Msz
                iS     15 05.80
HVAR  100.74   48 iPdiff04 45.70    0.5
LCI   100.75   51 Pdiff 04 46.60    1.3
VBY   100.81   45 ePdiff04 46.20    0.7
kMR   101.06   42 iPdiff04 47.30    0.7
                iPP    08 56.00
GEC2  101.10   42 ePdiff04 46.40   -0.4
        1 4s    31.62nm           5.7mb
                e      04 52.20
                e      04 55.90
                e      05 03.90
                sP     05 38.10
                e      07 21.20
                e      07 45.10
                e      08 03.20
                e      08 12.10
                e      08 18.30
                e      08 27.60
                e      08 31.00
                e      08 37.30
                e      08 46.40
                e      08 53.60
                ePP    08 57.10
                e      09 11.20
                eSKS   15 06.30
                eS     16 10.60
                eSP    17 39.70
                ePKKP  20 53.20
                eP'P'  29 11.50
KHC   101.13   41 Pdiff 04 47.40    0.5
        1.0s    14.00nm           5.5mb
      Z  19s     8.40um           6.3Msz
      N  18s     3.20um
      E  20s     7.60um
                i      04 52.10
                e      05 02.60
                epP    05 40.00
                e      08 34.50
                SKS    15 06.00
                eSP    17 38.00
                ePKKP  20 57.20
                e      21 24.00
                e      30 15.50

ZAG   101.40   45 ePdiff04 53.00    4.9X
                iS     15 10.00
PTJ   101 42   45 ePdiff04 49.10    0.8
MUD   101.60   33 iPdiff04 48.00   -0.7
        1.0s    16.00nm           5.5mb
                i      09 02.00
CLL   101.63   39 iPdiff04 49.60    0.6
        1.7s    80.00nm           6.0mb
      Z  21s    10.50um           6.3Msz
                epP    05 43.00
                eSKS   15 09.00
                PKKP   21 18.60
NAI   101.83   97 iPdiff04 55.50    4.5X
                e      05 48.00
                e      08 06.00
                e      16 54.00
VLO   101.90   51 ePdiff04 56.90    6.5X
BRG   102.01   40 iPdiff04 51.20    0.5
        2.2s    85.00nm           5.9mb
      Z  20s     7.50um           6.2Msz
      N  20s     6.50um
      E  20s     6.00um
                i      04 55.00
                i      04 57.80
                i      15 04.00
                iPKKP 21 17.60
PRU   102.04   41 ePdiff04 51.10    0.3
      Z  17s     5.80um           6.2MszX
      N  18s     2 00um
      E  18s     5.20um
                e      04 55.40
                ipP    05 44.30
                ePP    09 01.00
                SKS    15 11.50
                SKKS   15 50.90
                SDIF   16 17.20
                SP     17 46.80
                PKKP   20 54.00
                e      21 18.00
                P'P'   29 05.00
SRN   102.06   52 ePdiff04 53.00    1.9
BRN   102.16   38 ePdiff04 53.00    1.7
                e      05 45.00
TPE   102.21   51 ePdiff04 58.00    6.2X
SOP   102.44   43 ePdiff04 53.00    0.3
LACI  102.45   50 ePdiff04 58.40    5.5X
TIR   102.47   50 ePdiff04 53.00    0.1
VKA   102.50   43 ePdiff04 53.00    0.1
        4.5s  1780.00nm           7.0mb X
      Z  23s     6.00um           6.1MszX
                i      09 05.00
                i      09 54.90
                i      15 21.10
                LR     48 30.00
ZST   102.97   43 ePdiff04 55.30    0.3
                e      07 49.80
                e      09 14.70
                e      29 09.90
COP   102.97   35 ePdiff04 56.00    1.2
      Z  20s     6.52um           6.2Msz
                i      05 50.00
                e      09 04.00
                iS     15 19.00
                i      16 24.00
PHP   102.99   50 ePdiff04 56.00    0.7
OHR   103.05   51 iPdiff04 57.50    1.9
KONO  103 11   30 (Pdiff04 56.70    1.4
        1.5s    46.05nm           6.0mb
UZD   103.37   45 ePdiff04 57.50    0.7
KSP   103 39   40 iPdiff04 58.30    1.5
        1 1s    29.00nm           6.0mb
                e      05 51.00
                e      07 42.00
BALM  103.43 331 ePdiff04 55.33   -1.6
SRO   103 60   44 ePdiff04 58.00    0.2
                ı      07 57.60
SKO   103.79   50 ePdiff04 59.00    0.2
      Z  22s     8.63um           6.2MszX
                i      05 50.00
                iPP    09 13.00
                i      10 01.50
                ıS     15 17.20
                iS     16 03.00
                iPS    18 08.00
                LR     52 47.00
DAG   103.86   10 iPdiff04 58.00   -0.3
        0.5s    10 56nm           6.0mb

      Z  19s     7.36um           6.2Msz
LIT   103.94   52 ePdiff05 05.28    5.7X
BSD   104.08   36 ePdiff04 58.00   -1.7
                e      09 22.00
MBC   104.33 349 ePdiff05 00.50    0.1
        0.7s    13.00nm           6.0mb
VAY   104.38   51 ePdiff05 12.00   10.6X
NB2   104.39   29 Pdiff 05 02.40    1.3
        1.1s    10.10nm           5.7mb
KNT   104.57   51 ePdiff05 05.48    3.2X
PAIG  104.75   53 ePdiff05 12.64    9.5X
SOH   104.79   52 ePdiff05 04.48    1.1
KKB   104.92   51 ePdiff05 05.00    1.2
SRS   105.05   51 ePdiff05 09.40    4.9X
KLU   105.20 331 ePdiff05 03.52   -1.2
KLU   105.20 331 (PKP) 09 15.83   -2.0
HFS   105.21   31 ePdiff05 03.50   -1.1
        1.6s    34.60nm           6.1mb
HFS   105.21   31 ePKP  09 15.60   -2.2
        0.6s    10.80nm
SPC   105.26   43 ePdiff05 07.90    2.5X
MMB   105.29   51 ePdiff05 06.00    0.4
OJC   105.30   42 ePdiff05 06.40    1.1
      Z  18s     2.10um           5.7Msz
                i      09 31.60
                iS     15 25.10
                i      16 44.90
RZN   106.03   51 ePdiff05 10.00    1.0
UZH   106.39   44 iPdiff05 19.00    8.8X
UZH   106.39   44 ePdiff05 12.00    1.8
KDZ   106.52   51 ePdiff05 13.00    2.0
PMR   106.69 330 ePdiff05 09.09   -2.1
        0.7s    12.11nm           6.2mb
PMR   106.69 330 ePKP  09 17.12   -3.4X
      Z  21s     9.89um           6.3Msz
ALN   106.76   52 ePdiff05 19.00    7.0X
SLKM  106.86 329 ePdiff05 10.90   -1.2
UPP   106.99   32 iPdiff05 18.10    5.6X
                iS     15 30.00
COL   107.13 334 iPdiff05 12.56   -0.5
        0.8s    66.25nm           6.9mb
                epP    06 11.98
FBA   107.13 334 ePdiff05 12.15   -0.9
        0.8s    52.45nm           6.8mb
KDC   107.19 326 ePdiff05 13.55    0.1
LVV   107.81   43 ePdiff05 20.00    3.6X
CP2   108.03 330 ePdiff05 16.22   -1.2
ITU   108.99   53 ePdiff05 24.00    2.1X
SVW   109.58 329 ePdiff05 22.78   -1.3
SVW   109.58 329 (PKP) 09 28.21    2.1X
IMA   109.81 334 iPdiff05 24.32   -0.8
TTA   110.14 331 ePdiff05 25.15   -1.5
TTA   110.14 331 ePKP  09 27.44    0.3
                ePP    10 00.75
KIS   110.27   47 ePdiff05 27.00   -0.4
                e      09 26.00
                iPS    19 30.00
KBS   110.46   12 ePdiff05 30.00    2.4X
NUR   110.56   32 ePKP  09 26.90   -0.9
        0.9s    16.10nm
NUR   110.56   32 ePdiff05 37.00    8.6X
        0.6s     4.10nm
MNK   110.86   39 ePdiff05 38.00    8.2X
      Z  22s     7.80um           6.2Msz
                e      10 06.00
DZM   111.47 233 iPKPd 09 31.00    0.1
KAF   111.62   30 iPKP  09 28.50   -1.3
        0.4s    10.70nm
SDF   112.37   25 iPKP  09 30.20   -0.9
                i      10 18.50
TOO   112.38 207 ePKP  09 35.00    2.9X
CNB   112.51 211 ePKP  09 33.00    0.5
KAS   112.54   53 ePKP  09 32.00   -0.3
CAN   112.68 211 ePKP  09 34.00    1.2
                e      10 20.40
RIV   112.81 214 ePdiff05 42.00    3.0X
                ePP    10 18.00
                epPP   11 40.00
                eSKS   15 57.00
                eSDIF  17 39.00
                eSP    19 46.00
                ePS    20 05.00
                e      21 16.00
                eSS    25 56.00
                eSKKS  27 10.00
                e      31 29.00
                e      38 38.00
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25d 00h

KEV	112 84	22	ePKP	09	25.00	-6.9X	
	1.2s	57.80nm					
			e	11	10.00		
			e	17	46.00		
			e	19	32.00		
SIM	113.46	50	ePdiff	05	42.00	0.3	
			e	09	34.00		
			e	10	28.00		
			ePPS	21	14.00		
BWA	113.69	211	ePKP	09	35.80	1.0	
ABHA	114.34	80	ePKP	09	32.00	-4.8X	
ARMA	115.23	216	ePKP	09	38.60	0.6	
	0.7s	9.00nm					
ANN	115.68	50	ePKP	09	38.00	-0.1	
	1.2s	80.00nm					
			e	10	40.00		
			eSS	26	34.00		
UOSK	116.08	72	ePKP	09	40.00	0.3	
OBN	116.23	39	(Pdiff	06	04.00	10.3X	
	1.1s	180.00nm					
			i	09	38.00		
			ePS	20	16.00		
AFIF	116.37	74	ePKP	09	39.30	-1.0	
OASM	117.18	72	ePKP	09	42.00	0.3	
SOC	117.24	52	ePdiff	06	10.00	11.5X	
	0.8s	160.00nm					
			e	09	41.00		
			i	09	58.00		
			e	10	52.00		
			e	20	24.00		
STK	118.90	207	ePKP	09	43.90	-0.8	
			e	10	56.80		
KIV	119.42	51	iPKPd	09	45.00	-0.5	
	1.4s	235.00nm					
			e	10	07.20		
ILT	119.60	336	ePdiff	06	09.00	0.7	
	1.2s	105.00nm					
			i	09	44.00		
			i	16	50.50		
PYA	119.69	51	iPKPc	09	46.00	0.1	
	2.0s	330.00nm					
	Z 20s	4.00um				6.1Msz	
			i	11	08.00		
			iSS	27	30.00		
ADK	120.22	318	ePKP	09	43.93	-2.6X	
MTA	120.78	54	iPKPc+	09	48.40	0.5	
	0.8s	90 00nm					
			e	11	22.00		
GRO	121.54	52	iPKPc	09	50.50	1.2	
	Z 20s	3.00um				5.9Msz	
	N 18s	5.50um					
	E 22s	7.80um					
			iPS	21	02.00		
TAB	121.61	59	iPKPc	09	50.00	0.1	
			e	10	45.00		
			i	11	24.00		
			i	12	14.00		
			i	22	23.00		
GRS	121.75	57	ePKP	09	49.00	-1.1	
	1.7s	100.00nm					
KER	121.78	63	ePKP	09	50.00	-0.3	
OLP	122.17	213	iPKPd	09	50.90	-0.2	
			ePP	11	25.60		
SHE	123.59	56	iPKPd	09	55.00	1.6	
	0.8s	400.00nm					
			i	16	42.00		
			iSS	28	17.00		
NWAO	124.03	184	ePKP	09	53.50	-1.1	
SVO	124.32	240	PKP	09	58.00	2.4	
MUN	125.03	183	ePKP	09	55.00	-1.5	
KLB	125 32	185	ePKP	09	56 00	-1.1	
	0.5s	44 00nm					
COOL	125.67	188	ePKP	09	56.00	-1.9	
SMY	125.80	319	(PKP)	09	55.78	-1.5	
	Z 21s	5.43um				6.2Msz	
CTAO	126.30	219	ePKP	09	58.16	-1.2	
			epPKP	10	57.15		
			ePP	11	55.88		
			e	12	43.47		
BAL	126.37	184	ePKP	09	57.50	-1.7	
	0.5s	59.00nm					
MRWA	127.79	183	ePKP	10	00.00	-1.9	
ASPA	129.29	205	iPKP	10	03.60	-1.3	
			e	11	06.50		
			eSKP	13	04.10		
			ePKS	13	24.60		
			e	23	11.90		
			e	29	23.00		
SVE	129.35	34	iPKPd	10	04.00	0.0	
	2.2s	480.00nm					
KAT	129.43	58	iPKP-	10	05.00	0.3	
			i	12	15.50		
			ePS	22	14.00		
MEEK	130.16	186	ePKP	10	04.00	-2.5X	
TIK	130.77	354	ePKP	10	02.00	-4.2X	
	1.6s	320.00nm					
			i	22	42.00		
ASH	131.08	59	PKP	10	08.00	0.1	
	1.5s	400.00nm					
			i	12	33.00		
			SP	22	24.00		
			i	24	10.00		
NRI	131.40	12	iPKPd	10	08.00	0.5	
	1.8s	425.00nm					
			e	22	37.00		
			e	24	12.00		
MAIO	132.01	61	iPKPd	10	09.70	-0.1	
	1.3s	69.44nm					
			e	11	09.00		
			e	12	27.00		
			i	13	16.00		
			eS	22	19.00		
WB2	132.45	207	ePdiff	07	23.00	16.3X	
	0.4s	2.80nm					
			e	07	29.10		
WB2	132.45	207	ePKP	09	49.70	-21.3X	
	0.5s	42.50nm					
			i	10	09 60		
			e	11	09.30		
			ipPKP	12	30.80		
			iSKP	13	16.20		
			e	22	54.30		
WRA	132.45	207	PKP	10	18.00	7.0X	
	1.3s	44 30nm					
PET	134.72	323	ePKP	10	05.00	-9.3X	
	1.0s	156.00nm					
			e	12	48.00		
			eSS	30	36.00		
MGD	134.87	335	ePKPd-	10	00.00	-14.4X	
	1.2s	230.00nm					
	Z 22s	6 60um				6.3Msz	
	N 22s	2.70um					
	E 22s	4.80um					
			i	10	14.00		
			i	12	49.00		
KNA	138.43	203	ePKP	10	09.60	-12.7X	
YAK	139.66	348	ePKP	10	13.00	-10.2X	
	1.1s	400.00nm					
			e	31	28.00		
FRU	142.51	49	iPKPd-	10	26.00	-3.0X	
	2.0s	990.00nm					
			e	10	54.00		
			i	13	40.00		
POO	142.86	90	iPKPd	10	26.20	-4.0X	
	1.2s	125.00nm					
MENI	143.26	229	iPKPc	10	26.50	-4.5X	
ELT	143.67	28	iPKPd	10	27.80	-2.7X	
	2.0s	1200.00nm					
KUR	144.42	317	iPKPd-	10	30.00	-2.0	
	1.0s	6600.00nm					
			e	13	48.00		
GBA	144.67	99	PKPc	10	31.60	-1.7	
	0.5s	999.90nm					
PRZ	145.24	48	iPKPd-	10	35.50	1.7	
	1.5s	4260.00nm					
			e	13	50.00		
YSS	146.59	322	iPKPd-	10	35.00	-0.6	
	0.9s	440.00nm					
	Z 20s	6 50um				6.4Msz	
			eSS	32	50.00		
NDI	147.13	73	iPKPd	10	37.80	0.8	
	0.7s	616.44nm					
KUSJ	147.41	315	iPKPd	10	36.20	-0.8	
ASAJ	148.22	318	iPKPd	10	38.40	0.1	
SRDI	148.47	181	iPKPd	10	38.50	-1.1	
KHKI	148.52	184	ePKPd	10	38.20	-1.4	
GUA	148.61	258	e(PKP)	10	39.30	-0.4	
	1.2s	3375.00nm					
GUMO	148.67	258	PKP	10	38.10	-1.7	
	1.2s	3391.40nm					
			e	10	42.60		
			e	10	46.00		
			pPKP	11	38.00		
			e	14	18.10		
PJG	148.67	258	ePKP	10	39.00	-0.8	
KEDI	148.82	185	iPKPd	10	38.00	-2.2	
KALI	149.14	167	iPKPd	10	42.40	1.7	
	0.8s	20.00nm					
SINI	149.39	169	iPKPd	10	41.60	0.4	
SAP	149.58	317	ePKP	10	41.00	0.6	
PACI	149.69	167	iPKPd	10	41.40	-0.2	
MOY	150.04	16	iPKPd	10	42.10	1.3	
	1.8s	570.00nm					
IRK	150.19	11	iPKP-	10	40.00	-1.1	
MKS	151.10	193	iPKPd	10	45.00	1.5	
OFUJ	151.25	310	PKP	10	42.30	-0.7	
AOMJ	151.46	314	PKP	10	50.10	6.8X	
ZAK	151.78	14	iPKPd	10	44.00	0.6	
	2.6s	884.00nm					
			e	14	30.00		
BUNI	152.42	195	iPKPd	10	45.40	-0.1	
	1.2s	14.00nm					
YAMJ	152.79	309	PKP	10	45.60	0.3	
TANI	152.85	193	iPKPd	10	46.20	0.1	
KAKJ	153.47	305	PKP	10	46.10	-0.2	
NIIJ	153.93	308	ePKP	10	47.40	0.5	
CHJJ	154.42	306	PKP	10	47.30	-0.3	
AEKI	154.49	143	iPKPd	10	48.10	-0.4	
MAJO	154.80	307	PKP	10	48.17	0.1	
MAT	154.80	307	ePKP	10	48.00	-0.1	
	Z 22s	10.37um				6.6Msz	
VLA	154.93	327	iPKPd	10	47.00	-1.0	
			i	11	13.00		
			i	14	51 00		
MTMJ	155.07	308	PKP	10	48.40	-0.2	
SIBI	155.46	142	iPKPd	10	50.00	0.0	
TSRJ	156.86	307	PKP	10	51.10	0.2	
WKYJ	157.70	304	PKP	10	52.10	0.1	
IPM	157.95	145	ePKPd	10	53.20	0.4	
			e	12	59.90		
YONJ	158.85	309	PKP	10	53.10	-0.1	
TKSJ	158.96	305	PKP	10	54.00	0.7	
SHK	159.73	308	ePKPd	10	54.20	0.0	
DAV	160.11	218	ePKP+	10	55.60	0.5	
TSM	160.67	194	ePKPc	10	56.90	1.2	
SHNJ	161.06	309	PKP	10	55.50	0.0	
CGP	161.72	218	ePKP	10	57.00	0.3	
	1.0s	38.00nm					
KUMJ	162.02	305	PKP	10	56.30	-0.2	
KAGJ	162.54	301	PKP	10	57.60	0.5	
KKM	162.69	190	ePKP	10	57.00	-0.8	
8JI	163.08	353	ePKP	10	57.00	-0.3	
NNT	163.27	127	ePKP	10	57.80	-0.4	
PLP	163.67	225	ePKPc	10	57.80	-0.9	
LZH	164.77	31	iPKP	11	00.00	0.7	
8DT	165.26	111	ePKP	10	53.00	-6.9X	
	1.0s	220.80nm					
CHTO	165.83	105	iPKPd	11	00.30	-0.1	
	0.9s	92.92nm					
			i	12	01.60		
LOE	167.64	116	ePKP	11	01.00	-0.8	
TGY	168.43	220	ePKP	11	03.90	1.5	
SSE	169.53	320	PKPc-	11	03.00	0.4	
	2.0s	550.00nm					
	Z 20s	14.70um					
	N 16s	7.10um					
	E 16s	7.90um					
			pPKP	11	48.00		
			sPKP	11	58.00		
			e	12	17.00		
			PP	16	02.00		
			SKS	17	24.00		
			SKKS	22	32.00		
			iSS	36	36.00		
KMI	170.12	77	iPKPc+	11	03.50	0.1	
	3.0s	1370.00nm					
	Z 62s	45.90um					
	N 25s	10.70um					
	E 25s	11.50um					
			pPKP	12	02.00		
			sPKP	12	21.00		
			i	13	16.00		
			PP	16	09.00		
			i	17	07.00		
			SKKS	22	32.00		
			SS	36	44.00		
HKC	178.81	219	PKP	11	07.00	1.3	
			PP	16	51.00		

S.D. = 1.0 on 565 of 676 obs.

? MAY 24, 1993 23h 51m 28.24± 1.01s

22.671 S ±21.4km 66.543 W ±14.0km
DEPTH = 221.0km (geophysicist)
6.6mb (15 obs.)
JUJUY PROVINCE, ARGENTINA (128)
Mw 7.0 (GS), 7.0 (HRV). mb 6.6 (BRK). Mo=7.1•10••19 Nm (PPT). Felt in Jujuy, Salta and Tucuman Provinces. Also felt (V) in the Antofagasta-Taltal-Calama area; (IV) at Mejillanes, San Pedra and Tocapillo; (III) at Iquique and (II) at Capiapo, Chile. Felt (III) at Arequipa, Peru.
RADIATED ENERGY
No. of sta: 20 Focal mech. F
Energy 5.2±0.7•10••14 Nm
MOMENT TENSOR SOLUTION
Dep 222 No. of sta: 9
Moment Tensor; Scale 10••19 Nm
Mrr=-1.46 Mtt= 0.82
Mff= 0.64 Mrt= 0.14
Mrf=-1.89 Mtf=-2.41
Principal axes:
T Val= 3.56 Plg=17 Azm= 48
N -0.57 40 152
P -3.00 45 300
Best Double Couple:Mo=3.3•10••19
NP1:Strike= 96 Dip=45 Slip=-155
NP2: 348 72 -48
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 53S, ••C M.W.: 51S, ••C
Centroid Location:
Origin Time 23:51:28.7 0.1
Lat 23.45S 0.01 Lon 66.88W 0.01
Dep 231.9 0.5 Half-duration 7.7
Moment Tensor; Scale 10••19 Nm
Mrr=-1.59 0.01 Mtt=-0.04 0.01
Mff= 1.64 0.02 Mrt= 0.19 0.01
Mrf=-2.90 0.01 Mtf=-0.29 0.02
Principal Axes:
T Val= 3.38 Plg=30 Azm= 83
N -0.08 3 175
P -3.30 60 269
Best Double Couple:Mo=3.3•10••19
NP1:Strike=165 Dip=15 Slip=-101
NP2: 356 75 -87

GOGA	58.06	343	ePd	01	00.24	-0.2
	1.0s	1283.60nm			6.6mb	
JSC	58 34	346	eP	01	01.40	-0.9
CEH	59.44	348	eP	01	09.98	0.1
	0.7s	1160.40nm			6.7mb	
TKL	60.26	344	eP	01	15.36	-0.1
MIAR	62.43	335	iPd	01	29.67	-0.3
	0.7s	687.50nm			6.5mb	
OLY	62.49	337	eP	01	29.33	-1.0
MCWV	63.24	349	eP	01	35.48	0.3
	0.5s	1233.31nm			7.0mb	
FVM	64.37	339	eP	01	41.98	-0.6
CCM	64.71	339	eP	01	44.68	0.0
	0.6s	1855.93nm			7.0mb	
RSNY	67.29	354	eP	02	00.89	0.0
	1.0s	1122.87nm			6.6mb	
CBM	69.29	359	eP	02	14.02	0.9
	0.6s	574.89nm			6 5mb	
TBT	69.30	45	eP	02	13.00	-0.6
GOL	71.86	329	eP	02	29.49	0.4
	1.3s	2568.24nm			6.8mb	
MSU	74.39	324	(P)	02	43.24	-0.5
ARUT	74.56	323	eP	02	45.74	1.1
RSSD	74.81	333	eP	02	46.39	0.4
	1.2s	1756.35nm			6.7mb	
DAU	75.30	326	eP	02	50.60	1.6
TPNV	75.57	321	eP	02	50.56	0.1
	0.8s	983.72nm			6.6mb	
DUG	75.95	325	eP	02	53.21	0.8
	1.2s	1147.44nm			6.5mb	
ABL	75.96	318	eP	02	51.89	-0.8
BCH	76.72	317	eP	02	56.67	-0.1
HVU	77.09	326	eP	02	58.99	0.3
PKEM	77.30	318	eP	03	00.52	0.8
MEMM	77.64	320	eP	03	02.93	1.4
KVN	78.07	321	eP	03	04.45	0.2
ARN	79.00	318	eP	03	09.93	0.9
NTYM	80.35	319	eP	03	16.41	0.3
DRV	80.39	320	(P)	03	16.20	-0.1

NEW	83.87	329	eP	03	33.18	-0.9
	1.0s	1013.21nm			6.5mb	
ENIJ	84.79	46	P	03	50.02	11.2X
PAB	84.83	43	eP	03	38.67	-0.4
	1.2s	628.73nm			6.3mb	
			epP	04	37.43	244kmX
RAR	84.88	249	eP	03	36.03	-3.6X
CRZF	91.55	143	iPd	04	22.00	11.1X
			ePP	07	55.00	
			iS	15	59.00	
			iSP	17	09.00	
KKH	96.90	288	eP	04	34.96	-0.7
MHA	97.00	289	eP	04	34.06	-2.0X
SIT	97.95	329	eP	04	36.90	-2.6X
	1.0s	40.70nm			5.8mb	
	Z 18s	9.50um			6.3Msz	
HON	99.23	289	P-	04	53.92	7.7X
	Z 20s	17.73um			6.6Msz	
KIP	99.28	289	eP	04	46.56	0.1
GEC2	100.62	41	e(Pdif	04	54.00	1.9
	0.7s	13.80nm			5.6mb	X
FNA	102.94	51	ePdiff	05	19.86	17.3X
PMR	106 24	330	ePdiff	05	14.47	-2.1
COL	106.66	334	ePdiff	05	17.94	-0.5
	0.7s	78.75nm			7.0mb	
FBA	106.66	334	ePdiff	05	17.30	-1.1
			pP	06	11.12	
KDC	106.77	326	ePdiff	05	18.16	-0.8
			e	05	42.45	
SMY	125.42	319	(PKP)	10	00.75	-3.2X
S.D. = 0.8 on 37 of 45 abs.						

% MAY 25, 1993 00h 04m 14.11± 0.70s
26.911 S ± 6.5km 26.722 E ± 7.8km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 3.8 (PRE).

PRY	0.67	92	eP	04	27.00	-0.6
			S	04	36.50	
KSR	1.05	9	e(P)	04	34.40	-0.2
			S	04	47.00	
SEK	1.62	151	eP	04	44.30	0.8
			S	05	06.00	
SLR	1.83	50	iPd	04	47.00	0.5
			S	05	12.00	
BLF	2.24	192	iPc	04	52.00	-0.6
			S	05	23.00	
FRS	3.09	203	iPc	05	04.30	-0.1
			S	05	39.90	
POF	6.47	246	eP	05	48.00	-4.3X
			S	07	02.00	
SUR	7.49	222	e(P)	06	07.00	0.1
			S	07	25.50	
S.D. = 0.6 an 7 of 8 obs.						

? MAY 25, 1993 00h 12m 07.71± 1.70s
6.960 S ±18.9km 130.759 E ±21.7km
DEPTH = 33.0km (normal)
4.7mb (4 obs.)
BANDA SEA (280)

KNA	8.95	192	eP	14	18.60	0.8
	0.3s	85.00nm			6.4mb	X
			eS	15	55.50	
WB2	13.37	165	iPc	15	15.90	-1.8
			iS	17	38.90	
PMG	16.41	100	eP	15	03.00	-54.3X
ASPA	16.88	170	iPd	16	04.30	1.0
	0.5s	65.60nm			5.0mb	
			eS	19	03.90	
WARB	19.52	191	eP	16	30.30	-5.1X
			eS	19	57.00	
MEEK	22.73	209	eP	17	08.00	-0.1
QLP	23.35	148	eP	17	18.00	3.8X
MRWA	26.15	210	eP	17	40.00	-0.9
	0.4s	10.00nm			4.8mb	
STK	26.78	159	iPd	17	47.90	1.3
	0.3s	5.20nm			4.6mb	
			eS	22	54.20	
CAN	32.83	152	e(P)	18	40.00	-0.5
GBA	56.74	291	P	21	51.30	0.1
	1.0s	5.00nm			4.5mb	
PPD	151.12	176	ePKP	31	58.10	4.3X
S.D. = 1.3 on 8 of 12 obs.						

& MAY 25, 1993 00h 17m 57.76s
34.121 N 116.399 W
DEPTH = 0.1km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 3.2 (PAS). Felt.

PEC	0.67	250	iPc	18	10.63	-0.6
PLM	0.86	207	eP	18	11.56	-3.3
SSK	1.08	275	eP	18	17.91	-1.2
GLA	1.69	129	(P)	18	38.60	9.9
ABL	2.44	288	eP	18	38.37	-1.4
TPNV	2.82	2	eP	18	42.13	-3.1
BCH	3.22	290	ePn	18	49.51	-1.1
TNP	4.01	351	ePn	19	00.61	-1.4
BONR	4.12	339	ePn	19	02.14	-1.6
ARUT	4.38	32	ePn	19	04.59	-2.6
10 obs. assaciated						

? MAY 25, 1993 00h 42m 25.40± 2.70s
8.288 S ±36.9km 112.450 E ±29.2km
DEPTH = 93.0 ± 26.5 km
4.9mb (6 obs.)
JAWA, INDONESIA (277)

LEM	5.01	287	ePc	43	40.00	0.3
			iS	44	43.00	
MBL	14.65	152	eP	45	39.50	-9.7X
			eS	48	06.00	
MEEK	19.16	163	eP	46	39.00	-5.4X
	0.2s	20.00nm			5.1mb	
			eS	49	52.00	
WARB	22.33	145	eP	47	09.50	-6.9X
			e	47	13.00	
WB2	24.16	121	iPc	47	34.60	0.4
	0.3s	8.90nm			4.7mb	
			i	47	52.00	
			iPcP	51	14.00	
			eS	51	48.80	
ASPA	25.61	129	iPc	47	47.50	-0.4
	0.6s	16.70nm			4.7mb	
			eS	52	39.80	
STK	35.84	135	iPc	49	17.60	-0.4
	0.6s	13.40nm			5.0mb	
			e	49	36.00	
GBA	41.01	302	P	50	00.00	-1.1
	0.5s	2.00nm			4.2mb	
KKN	44.47	325	P	50	29.80	0.4
MAIO	66.59	315	iPc	53	07.00	-1.1
OBN	88.75	326	eP	55	11.00	1.4
	1.0s	21.00nm			5.2mb	
UYO	144.27	40	iPKPc	01	52.20	-0.4
PPD	145.92	208	ePKP	01	56.80	1.0
MOCB	150.59	184	PKP	02	11.20	7.5X
S.D. = 1.0 an 10 af 14 obs.						

? MAY 25, 1993 00h 45m 45.50± 5.65s
23.314 S ±20.7km 67.377 W ±63.5km
DEPTH = 150.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)

HJA	1.82	87	iPd	46	18.90	0.1
YJA	2.07	57	ePd	46	22.30	0.0
SLA	2.22	130	iPd	46	23.80	-0.1
			S	46	52.00	
FSA	3.02	156	iP	46	33.70	0.0
S.D. = 0.1 an 4 of 4 obs.						

? MAY 25, 1993 02h 05m 13.74± 3.85s
10.429 N ±49.8km 86.259 W ±13.7km
DEPTH = 33.0km (normal)
4.6mb (9 obs.)
OFF COAST OF COSTA RICA (77)

OXX	12.12	304	(P)	08	07.50	0.1
PPM	14.72	307	(P)	08	42.00	0.1
III	15.03	303	(P)	08	42.00	-3.7X
MRX	17.10	304	(P)	09	14.00	2.0
GOGA	23.02	6	eP	10	17.34	0.5
	0.8s	24.32nm			4.8mb	
			e	10	26.47	
UYO	24.79	344	iPd	10	33.50	-0.6
MIAR	24.92	346	eP	10	34.11	-1.2
	0.7s	17.64nm			4.8mb	
GBTN	25.19	4	eP	10	38.58	0.7
TKL	25.22	5	ePc	10	38.71	0.6
OLY	25.41	350	eP	10	37.67	-2.2
GRT	25.88	354	eP	10	43.17	-1.1
CEH	26.17	13	ePd	10	48.47	1.5

25d 02h

	0.7s	22.06nm		4.9mb		WAHZ	27.34	164	P	19	03.10	-11.9X		SMY	66.23	5	eP	24	15.30	0.3
FNO	26.72	339	iPd	10	50.30	-1.8		ORZ	27.64	171	eP	19	17.70	0.1		ADK	66.61	11	eP	24	17.40	-0.1
ELC	26.87	355	eP	10	51.91	-1.5		TEHZ	27.74	164	Pc	19	02.20	-16.3X			1.4s	331.00nm			5.9mb	
OCO	26.99	340	iPd	10	55.80	1.3		DIW	27.85	169	P	19	03.80	-15.8X		PET	66.64	354	eP	24	17.00	-0.6
CBN	28.78	15	eP	11	12.00	1.3		DSZ	28.44	173	P	19	26.20	1.3			1.0s	140.00nm			5.7mb	
ALO	30.57	326	eP	11	26.83	-0.2		THZ	28.61	171	P	19	15.20	-11.2X		IPM	68.00	281	ePc	24	26.90	-0.1
	0.8s	6.61nm			4.5mb			LTZ	29.52	172	P	19	26.90	-7.5X		BJI	71.22	321	eP	24	46.50	0.5
GOL	33.75	333	ePd	11	53.75	-1.0		STK	29.70	228	iPc	19	36.40	0.3			2.0s	681.00nm			6.0mb	
	0.7s	4.64nm			4.5mb				0.3s	45.00nm				5.7mb				e	25	50.00	274kmX
RSNY	35.47	15	ePc	12	09.83	0.7					e	20	13.70	181km		LOE	71.47	294	eP	24	49.00	1.1
	0.9s	17.55nm			5.0mb						iPcP	22	35.30			NST	72.30	291	eP	24	53.80	1.1
SRU	35.84	327	ePc	12	12.31	-0.2					i	26	00.60			KMI	73.54	302	iPc+	25	01.50	1.3
			e	12	20.39			WRA	32.00	254	P	19	55.70	-0.7			1.6s	720.00nm			6.2mb	
MSU	36.33	325	eP	12	16.72	0.0			0.8s	5.80nm				4.3mb X		Z	32s	1.90um			5.2MszX	
			e	14	45.42			TUZ	32.43	177	P	19	59.50	-0.2				pP	25	55.00	226kmX	
ARUT	36.58	323	eP	12	19.45	0.6			0.7s	36.00nm				5.1mb				iS	34	18.50		
EEO	36.60	8	eP	12	21.00	2.3		RAR	32.47	108	P	19	59.20	-1.1		CHTO	74.44	294	iPc	25	06.20	1.0
RSSD	36.93	339	eP	12	22.46	0.8		ASPA	33.00	247	iPc	20	04.10	-0.9			1.2s	166.67nm			5.6mb	
	0.6s	3.14nm			4.4mb				0.7s	88.20nm				5.5mb		MGD	74.51	352	iPc+	25	04.50	-0.2
		ePcP	14	46.28							e	20	44.10	192km			1.0s	110.00nm			5.5mb	
DAU	37.17	328	eP	12	23.60	-0.3					iPcP	22	44.00					e	25	20.00	55kmX	
		ePP	13	54.70							e	25	04.70					e	25	46.00		
		ePcP	14	48.15							eScP	26	12.30			SPA	76.59	180	iPc	25	16.30	-0.4
DUG	37.85	326	eP	12	30.11	0.7					eScS	30	08.80				0.6s	101.63nm			5.7mb	
	1.0s	4.10nm			4.2mb			GUA	34.72	320	eP	20	19.70	0.0		LZH	77.39	312	iPc	25	23.50	1.9
		e	12	37.90					1.1s	202.53nm				5.7mb			1.5s	534.00nm			6.1mb	
BW06	38.10	332	P	12	31.23	-0.4		GUMO	34.79	320	eP	20	20.40	0.2				pP	25	51.50	109kmX	
	0.7s	3.20nm			4.3mb				1.0s	155.60nm				5.6mb				sP	26	07.00		
LMN	39.78	24	eP	12	50.00	4.7X					e	20	42.90	98kmX				PP	27	25.00		
ULM	40.49	350	ePd	12	52.00	1.0		PJG	34.79	320	eP	20	20.50	0.3				ScS	35	00.00		
LRM	41.77	332	eP	13	01.80	-0.1		KNA	37.15	262	eP	20	40.60	0.5		KDC	78.37	21	P	25	22.10	-4.1X
JAO	44.07	9	eP	13	19.00	-1.3		WARB	39.95	245	iPc	20	58.10	-5 2X		KDC	78.37	21	eP	25	26.40	0.2
FCC	48.60	355	eP	14	02.00	6.1X		PPN	41.99	101	iPd	21	20.30	0.3		CIT	79.90	330	eP	25	35.70	1.0
MBC	68.17	352	eP	16	10.00	-2.4		TVO	42.16	102	iPd	21	21.90	0.4		SVW	80.02	17	eP	25	35.20	0.1
GBA	151.16	34	PKP	25	05.80	5.8X		PMO	43.57	98	iPd	21	33.70	0.9		SLKM	81.23	20	P	25	40.80	-0.7
	S.D. = 1.2	on	30 of	34	obs.				0.8s	76 00nm				5.3mb				pP	26	27.20	190km	
----------								VAH	43.81	98	iPd	21	35.30	0.5		TTA	81.38	16	eP	25	42.80	0.5
MAY	25, 1993	02h	13m	45.80±	0.11s				0.7s	36.20nm				5.0mb		ILT	81.82	5	iPd	25	44.00	-0.3
13.494 S ± 3.1km		167	120 E ±	3.5km				TPT	43.84	98	iPd	21	35.70	0.7			1.4s	105.00nm			5.4mb	
DEPTH = 189.9km		(19 depth phases)							0.6s	39.90nm				5.1mb				i	26	30.00	188km	
5.6mb (46 obs.)								RUV	44.05	98	iPd	21	37.30	0.6		PMR	82.39	19	eP	25	47.30	-0.1
VANUATU ISLANDS					(186)				0.6s	53.40nm				5.3mb			2.0s	320.60nm			5.7mb	
								MBL	45.65	254	iPc	21	50.00	0.7		MAW	82.97	202	iPc	25	51.00	0.7
BKM	4.29	166	iPc	14	52.00	0.5		DAV	46.04	294	eP	21	46.00	-6.5X			0.6s	34.88nm			5.3mb	
		iS	15	46.00				MEEK	47.14	246	iPc	22	00.90	-0.1		BOD	83.25	335	iPc	25	52.20	0.4
PVC	4.37	165	iP	14	48.00	-4.6X			0.4s	29.00nm				5.1mb			1.6s	226.00nm			5.7mb	
HNR	8 11	299	eP	15	43.00	1.5					e	22	10.00	30kmX		KLU	83.39	21	P	25	52.50	-0.1
		eS	17	18.00				CGP	47.43	295	eP	22	04.00	0.7				pP	26	39.00	189km	
SVO	8.36	300	eP	15	48.00	3.2X		PLP	48.46	298	ePd	22	10.70	-0.5		ARN	83.81	49	P	25	55.50	0.3
		eS	17	30.00				KLB	48.58	240	eP	22	10.70	-1.4				pP	26	43.00	193km	
DZM	8.55	184	iPc	15	47.30	0.0		MUN	49.95	240	eP	22	21.50	-1.0		BCH	84.11	52	P	25	55.90	-0.9
		iS	17	27.50				KKM	54.14	288	ePc	22	52.90	-1.1				pP	26	47.40	211kmX	
VUN	11.80	114	eP	16	31.60	2.1			1.5s	783.50nm				6.2mb		BALM	84.35	22	P	25	57.10	-0.4
BRS	19.26	222	iPc	17	59.50	1.4		BAG	54.75	301	ePc	22	58.00	-0.4				pP	26	43.80	190km	
	1.0s	25.00nm			4.7mb			KAKJ	55.60	334	P	23	03.80	-0 1		ZAK	84.46	325	iPc	25	59.40	1.4
		i(S)	21	30.00				CHJJ	55.99	333	P	23	06.50	-0.2			2.4s	463.00nm			5.8mb	
CTA	21.01	249	iPd	18	17.20	1.5		IIDJ	56.01	331	P	23	07.10	0.1		IMA	84.50	15	iPc	25	58.90	0.7
	0.5s	37.85nm			5.2mb			WKYJ	56.13	329	P	23	08.30	0.4		ORV	84.66	47	P	26	00.00	0.7
		ipP	18	25.00	29kmX			KAGJ	56.43	323	P	23	10.30	0.4				pP	26	47.00	191km	
		isP	18	45.00				TKSJ	56.75	327	iP+	23	12.60	0.5		LBFM	85.07	46	P	26	01.80	0.2
		i	19	09.00				MAT	56.75	332	iPc	23	11.70	-0.4				pP	26	49.40	193km	
		i	19	14.00					1.3s	198.08nm				5.7mb		FBA	85.23	18	eP	26	00.70	-0.9
		iS	22	00.00				MTMJ	56.97	332	P	23	13.30	-0.4		SSK	85.62	53	P	26	05.00	0.5
		iS	25	54.50				NIIJ	56.98	333	P	23	13.90	0.3		PEC	85.93	54	P	26	06.00	0.2
		iScS	29	21.00				TSRJ	56.98	330	P	23	14.00	0.3			1.4s	70.62nm			5.3mb	
ARMA	22.09	218	iPc	18	28.30	2.0		YAMJ	57.32	335	eP	23	16.80	0.7				pP	26	53.00	190km	
	1.0s	186.00nm			5.6mb			KUMJ	57.44	324	P	23	17.20	0.2		PLM	86.00	55	P	26	07.20	0.9
RIV	24.90	213	iPc	18	53.40	0.6		OFUJ	57.45	337	eP	23	17.00	0.1		MOY	86.36	325	ePc	26	08.10	0.8
		e	19	30.00	185km			SHNJ	58.45	325	P	23	23.70	-0.2			1.7s	135.00nm			5.5mb	
QLP	25.08	235	iPc	18	55.00	0.4		TATO	58.67	311	P	23	25.50	-0.1		SHW	86.72	41	P	26	10.60	1.1
HBZ	25.99	159	eP	19	03.00	0.2			1.1s	223.58nm				5.8mb		TNP	87.27	50	P	26	12.30	-0.1
TAZ	26.01	163	P	19	22.50	19.6X		LEM	58.83	270	iPc	23	27.30	0.1				pP	26	59.80	192km	
PATZ	26.08	164	eP	19	20.10	16.4X			1.0s	130.00nm				5.7mb		GLA	87.52	55	P	26	13.90	0.4
URZ	26.21	162	P	19	02.90	-1.9		HOOJ	59.77	340	eP	23	33.50	0.7				pP	27	02.00	194km	
WHH	26.62	164	P	19	14.20	5.7X		KUSJ	59.94	341	eP	23	33.60	-0.4		TPNV	87.63	51	P	26	14.70	0.6
NGZ	26.66	165	P	19	10.20	1.2		KUR	61.00	345	eP	23	41.30	0.1			1.5s	56.04nm			5.2mb	
CNZ	26.67	165	P	19	09.90	0.9			1.0s	340.00nm				6.1mb				pP	27	02.10	191km	
NOZ	26.83	161	P	19	24.10	13.8X		ASAJ	61.52	340	eP	23	46.00	1.3		TIK	88.72	349	iPc+	26	18.00	-0.4
BWA	26.86	216	iPc	19	09.70	-1.0		SSE	62.54	316	Pc	23	51.20	-0.4			1.6s	156.00nm			5.7mb	
		ePP	19	46.50					1.2s	134.00nm				5.7mb				i	27	05.00	189km	
		iPcP	22	25.90				YSS	64.08	342	iPc+	24	02.00	0.6				e	36	51.00		
CNB	26.99	213	iPd	19	12.80	0.8			1.1s	130.00nm				5.7mb		KKN	89.15	299	P	26	21.80	0.2
	1.0s	80.00nm			5.4mb			CSY	64.62	202	iPd	24	04.00	-0.7		DPW	89.91	40	P	26	24.40	0.0
BSZ	27.09	167	P	19	03.60	-9.1X			0.4s	36.00nm				5.6mb		NEW	90.72	40	P	26	28.50	0.3
CAN	27.19	214	iPc	19	13.80	0.1					i	24	50.10	197km			1.1s	19.07nm			5.0mb	
		ePP	19	54.10				VLA	64.92	332	iPc	24	07.00	0.2				pP	27	15.20	187km	
		iPcP	22	22.40							e	26	30.00	773kmX		MSU	91.18	51	P	26	31.10	0.4

			pP	27	18.90	192km	RMN	133.18	299	ePKP	32	41.30	0.2	SNF	140.52	343	PKP	32	53.80	-0.2
SRU	92.58	51	P	26	39.00	1.9	CSS	133.25	306	ePKP	32	41.80	0.8	ETA	140.54	354	ePKP	32	47.00	-6.9X
HYB	92.62	287	iPc	26	37.60	0.1	WIN	133.66	220	ePKP	32	38.00	-4.4X	WATA	140.56	334	iPKPd	32	47.70	-6.7X
	1.2s		71.40nm			5.7mb		1.0s		40.00nm							i	32	54.40	
			e	27	21.00	172kmX				i	35	55.00					i	32	56.50	
GBA	92.81	283	P	26	39.00	0.7	UZH	134.50	328	ePKP	32	43.50	0.6				i	35	53.10	
	0.6s		7.00nm			5.0mb		1.0s		64.00nm				HCG	140.57	351	ePKP	32	47.50	-6.6X
NVL	94.25	188	iPc	26	43.50	-0.5	OJC	134.72	331	ePKP	32	43.00	-0.3	WTTA	140.59	334	iPKPd	32	48.00	-6.5X
	1.0s		46.00nm			5.6mb				e	35	21.00			0.5s		14.70nm			
			e	27	30.00	186km	SPC	135.19	329	ePKP	32	46.10	1.6				i	32	48.70	
ELT	95.30	323	iP	26	49.20	0.2				e	35	22.00					i	32	54.10	
	1.9s		200.00nm			6.1mb	KSP	135.87	334	ePKP	32	45.50	0.0				i	32	56.90	
			e	27	30.00	161kmX				e	33	35.00					i	35	55.60	
			e	30	39.00					e	35	00.00		FVI	140.59	332	PKP	32	46.70	-7.5X
PRZ	98.05	312	eP	27	03.00	1.1				i	36	01.20		HAE	140.67	350	ePKP	32	47.70	-6.5X
	1 4s		50.00nm			5.8mb				e	37	27.50			1.2s		9.00nm			
NRI	98.70	339	ePc	27	04.00	0.0	EDR	135.95	352	ePKP	32	46.10	0.7	WLF	140.69	340	iPKPc	32	48.60	-5.7X
	1 7s		66.00nm			5.8mb		1.1s		12.00nm				HTR	140.75	351	ePKP	32	48.20	-6.2X
			e	31	13.00		EDU	136.37	352	ePKP	32	47.10	0.9	MOTA	140.75	334	iPKPc	32	48.10	-6.7X
			e	37	26.00		CIN	136.41	311	ePKP	32	47.00	0.1				i	32	52.30	
FRU	100.85	312	ePdiff	27	15.00	0.5	ALN	136.46	316	ePKP	32	46.02	-0.8				i	32	57.00	
			e	31	32.00		ELO	136.54	353	ePKP	32	47.80	1.2				i	35	54.40	
ARU	111.38	326	ePKP	31	59.00	0.6	BRG	136.83	335	ePKP	32	37.20	-10.1X	TRI	140.77	330	ePKP	32	53.00	-1.6
DAG	116.65	2	ePKP	32	06.40	-1.6		1 5s		46.00nm				DOU	140.80	342	PKP	32	55.20	0.7
FRB	116.85	24	ePKP	32	07.50	-1.2				i	32	47.80		ECB	140.92	354	ePKP	32	48.90	-5.7X
MOCB	117.75	123	PKP	32	11.80	-0.5	CLL	136.87	336	iPKP	32	46.90	-0.4	ECP	141.06	354	ePKP	32	49.40	-5.5X
CNCB	117.80	117	PKP	32	12.80	0.2		2.0s		71.00nm					0.5s		45.00nm			
LPB	117.82	117	ePKP	32	16.00	3.5X				e	36	03.00		HGH	141.10	350	ePKP	32	48.80	-6.2X
ZOBO	117.91	117	PKP	32	10.10	-2.8X				e	36	21.00		CDF	141.38	338	PKP	32	49.45	-6.3X
KEV	118.50	345	iPKP	32	10.80	-0.9	EAB	136.89	353	ePKP	32	48.20	1.0	SLE	141.47	337	ePKPd	32	50.30	-5.6X
	0 5s		7.00nm					1.2s		8.00nm				CTI	141.51	332	PKP	32	50.50	-5.6X
GRM	120.15	218	ePKP	32	16.50	0.5	BUD	136.93	328	e(PKP)	32	47.00	-0.5	ECH	141.59	338	PKP	32	50.09	-6.0X
	0.5s		61.00nm				ESY	136.93	352	ePKP	32	48.20	0.9	OSS	141.67	334	ePKPd	32	51.30	-5.2X
GRO	121 92	313	iPKPc+	32	20.00	1.1		1.2s		16.00nm				ZLA	141.74	337	ePKPd	32	50.90	-5.5X
	1 0s		110.00nm				SRO	137.07	329	ePKP	32	46.90	-0.9	LLS	142.00	335	ePKPd	32	52.30	-4.8X
GRS	122.15	308	iPKPc	32	19.00	-0.8				e	35	34.30		BSF	142.05	338	ePKP	32	51.90	-5.1X
	1.3s		60.00nm				PRU	137.26	334	PKP	32	48.50	0.4		0.6s		7.50nm			
MOS	122.76	329	iPKPd	32	21.00	0.8		1.6s		107.00nm				HAU	142.06	339	ePKP	32	52.00	-4.9X
	2.0s		140.00nm							i	32	49.90			0.9s		27.20nm			
			e	34	03.00					iPP	35	35.40		VDL	142.12	335	ePKPd	32	51.70	-5.6X
BLF	123.28	221	ePKP	32	04.00	-18.3X				i	36	05.10		BRT	142.13	322	PKP	32	57.10	-0.1
	0.7s		33.00nm				MOX	137.93	337	ePKP	32	40.00	-9.4X	LOMF	142.44	338	PKP	32	53.20	-4.4X
CBM	123.29	42	PKP	32	27.60	6.1X		1 8s		61 00nm				TMA	142.67	335	ePKPd	32	54.00	-4.2X
FRS	123.39	220	iPKPc	32	20.70	-1.5				e	32	49.70		RSM	142.71	329	PKPd	32	55.80	-2.2X
	0.8s		20.00nm							e	35	38.00		ARV	142.77	328	PKP	32	54.70	-3.5X
OBN	123.57	328	iPKPc	32	21.80	0.0	SRS	137.98	318	ePKP	32	40.34	-9.4X	CME	142.88	352	ePKP	32	49.70	-8.4X
	1.5s		140.00nm				SOP	138.02	330	ePKP	32	48.60	-1.0	VAI	142.90	335	PKP	32	55.00	-3.3X
			e	33	10.00		OUR	138.11	317	ePKP	32	50.38	0.4	CPZ	142.96	352	ePKP	32	54.40	-3.9X
			e	34	05.50		SOH	138.28	318	ePKP	32	41.02	-9.4X		1.2s		13.00nm			
PRY	123.88	224	ePKP	32	22.00	-1.5	KHC	138.32	334	ePKP	32	42.00	-8.2X	SFI	143.01	330	PkPc	32	56.40	-2.1
	1.5s		50.00nm							e	32	50.70		MMK	143.08	336	ePKPd	32	56.20	-2.8X
KIV	123.89	314	iPKPc	32	23.00	0.0				e	33	16.00		PGD	143.11	330	PKPc	32	56.60	-2.4X
	1.5s		72.00nm							ePP	35	41.00		CRE	143.18	329	PKPc	32	56.10	-2.9X
			e	34	06.10					e	36	09.40		ASS	143.22	328	PKP	32	55.80	-3.3X
PUL	123.98	335	ePKPd	32	22.00	-0.4				e	37	36.00		DUI	143.23	325	PKP	32	56.50	-2.7X
KAF	124.00	339	iPKP	32	21.60	-0.8	KNT	138.41	318	ePKP	32	39.90	-10.7X	DIX	143.28	336	ePKPd	32	56.50	-2.9X
	0.5s		20.00nm				GEC2	138.48	334	e(PKP)	32	51.30	0.7	ROI	143.31	321	PKP	32	56.30	-3.0X
SIV	124.07	120	PKP	32	19.00	-5.0X		0.5s		7.20nm				AOU	143.34	327	PKP	32	56.70	-2.6X
SLR	124.08	226	iPKPc	32	23.00	-0.9	PAIG	138.51	316	ePKP	32	49.46	-1.3	CSI	143.35	321	PKP	32	57.10	-2.3X
	0.9s		33.00nm				GRG	138.84	318	ePKP	32	42.90	-8.4X	FLN	143.37	346	ePKP	32	55.30	-3.7X
CER	124.21	213	ePKP	32	19.00	-4.8X	GRF	138.85	336	ePKP	32	41.00	-10.1X		0.4s		27.15nm			
	1.0s		80.00nm							ec	32	51.20		TDS	143.40	321	PKPc	32	57.00	-2.4X
KSR	124.96	225	ePKP	32	24.00	-1.7	SKO	138.90	320	ePKP	32	40.00	-11.4X	FIR	143.40	330	ePKP	32	57.00	-2.2
	1 0s		70.00nm					1.6s		110.00nm				ORO	143.42	335	PKP	32	56.60	-2.8X
NUR	125.68	338	iPKP	32	25.30	-0.4				i	32	51.00		LDF	143.44	346	ePKP	32	55.50	-3.7X
	0.5s		36.10nm							i	35	44.50			0.5s		29.90nm			
LMN	125.81	43	ePKP	32	28.00	1.5				i	36	09.50		SGO	143.46	323	PKP	32	56.60	-2.8X
SOC	126.06	314	ePKP	32	27.00	0.0	LIT	139.22	317	iPKP	32	51.42	-0.6	EMS	143.47	337	ePKPd	32	57.60	-2.0
	1.4s		55.00nm				PTJ	139 55	329	ePKP	32	46.00	-6.5X	BOB	143.49	333	PKPc	32	57.40	-2.1
POF	126.89	216	e(PKP)	32	29.00	0.0	FNA	139.59	319	ePKP	32	52.06	-0.7	BDI	143.51	331	PKPc	32	56.20	-3.3X
AKU	127.74	3	iPKP	32	31.20	1.7	OHR	139.78	320	iPKP	32	39.20	-13.9X	LOR	143.53	341	ePKP	32	56.40	-3.0X
	1.1s		25.32nm				KBA	139.97	332	iPKPc	32	45.80	-7.6X		0.5s		14.45nm			
PPD	128.36	133	ePKP	32	31.30	-0.8		0.5s		9.20nm				SDI	143.56	326	PKP	32	56.80	-2.9X
NAI	128.62	257	iPKPd	32	36.00	2.9X				i	32	52.90		MGR	143.58	322	PKPc	32	56.20	-3.5X
MNK	128.68	331	ePKP	32	31.00	-0.6				i	32	55.50		MNS	143.70	327	PKP	32	57.10	-2.8X
MOL	128.88	348	ePKP	32	28.52	-3.2X				i	32	58.80		RFI	143.73	325	PKP	32	58.18	-1.7
NB2	129.40	345	PKP	32	32.80	-0.1				i	35	42.30			1.9s		406.50nm			
	0.5s		5.40nm							i	35	55.90		LBF	143.74	340	ePKP	32	57.10	-2.7X
HFS	129.51	343	ePKP	32	32.20	-0.9	LJU	140.16	330	e(PKP)	32	47.00	-6.5X		0.5s		17.35nm			
	0.6s		14.10nm							epPKP	33	48.00		CZI	143.79	320	PKP	32	57.40	-2.6X
LSZ	130.32	236	ePKP	32	36.70	0.6				ePP	35	51.50		PII	143.80	331	PKP	32	57.00	-2.9X
			i	35	43.00		VBY	140.18	329	ePKP	32	46.80	-6.8X	GRR	143.81	346	ePKP	32	57.30	-2.5X
HRI	131.71	303	ePKP	32	38.90	0.7	RBL	140.33	331	PKP	32	47.70	-6.2X		0.5s		75.20nm			
KIS	131.74	322	iPKPc+	32	36.00	-1.7	CEY	140.43	330	ePKP	32	47.00	-7.1X	SSF	143.83	341	ePKP	32	57.60	-2.3X
	2.0s		200.00nm				VOY	140.48	330	ePKP	32	47.20	-7.0X	GRI	143.85	320	PKP	32	59.02	-1.2
BGIO	132.56	301	ePKP	32	40.30	0.4				e	32	58.30			0.9s		550.10nm			
BSD	133.18	338	iPKP	32	40.90	0.8				ePP	35	54.20		LSD	143.89	336	PKPc	32	59.34	-1.1

25d 02h

HYF	143.91	342	ePKP	32 58.20	-1.8
LPL	144.01	336	ePKP	32 58.60	-2.0
	0.5s	31.65nm			
LPG	144.02	336	ePKP	32 58.60	-2.1
	0.7s	49.40nm			
PCP	144.06	334	PKPc	32 58.52	-1.9
SMF	144.09	340	ePKP	32 53.00	-7.4X
	0.7s	79.15nm			
RMP	144.09	327	PKPc	32 58.90	-1.6
RSP	144.11	335	PKP	32 58.01	-2.6X
AVF	144.12	341	ePKP	32 58.40	-2.0
RDP	144.12	327	PKPc	32 59.30	-1.3
LPF	144.18	346	ePKP	32 58.70	-1.7
	0.4s	9.40nm			
CKI	144.27	334	PKPc	32 59.00	-1.7
BHB	144.36	335	PKPc	32 58.43	-2.5X
FIN	144.47	334	PKPc	32 59.61	-1.5
BGF	144.48	341	ePKP	32 59.80	-1.2
	0.6s	176.05nm			
RRL	144.49	336	PKPc	33 01.03	-0.4
SOI	144.52	319	PKPc	33 01.00	-0.3
ROB	144.55	334	PKPc	33 00.03	-1.3
GMB	144.58	319	PKP	33 00.97	-0.7
	1.4s	479.20nm			
DOI	144.64	335	PKPc	32 59.00	-2.5X
PZZ	144.70	335	PKPc	32 59.89	-1.8
PLDF	144.75	340	PKP	33 01.96	0.4
ENR	144.79	334	PKPc	32 59.89	-1.9
STV	144.82	334	PKPc	32 59.80	-2.0
AGO	144.84	341	PKP	33 01.88	0.2
ATN	144.84	319	PKP	33 00.70	-1.2
IMI	144.85	334	PKPc	33 01.35	-0.5
MAF	144.87	341	ePKP	33 01.30	-0.4
	0.5s	80.45nm			
TCF	144.92	342	ePKP	33 01.30	-0.5
	0.7s	105.85nm			
SAOF	144.93	334	PKP	33 01.87	0.0
AUTN	144.98	334	PKP	33 02.31	0.1
TOUF	145.04	334	PKP	33 02.39	0.1
SBF	145 08	334	PKP	33 02.29	0.1
AURF	145.11	334	PKP	33 02.35	0.1
PYM	145.15	340	PKP	33 03.01	0.7
LSF	145.16	342	ePKP	33 01.90	-0.3
	0.4s	55.70nm			
REVF	145.21	334	PKP	33 02.70	0.3
MFF	145.30	345	ePKP	33 02.40	0.0
	0.8s	200.40nm			
CALN	145.40	334	PKP	33 03.41	0.6
PGF	145.41	331	PKP	33 02.65	-0.2
MNO	145.46	320	PKPc	33 03.90	0.7
LBL	145.53	340	PKP	33 04.62	1.7
FRF	145.66	334	ePKP	33 03.40	0.3
	0.6s	169.55nm			
MEU	145.81	318	PKPc	33 04.80	1.1
GIB	145.84	320	PKP	33 03.13	-0.6
	1.3s	87.00nm			
PZI	145.86	318	PKP	33 04.74	1.0
	1.2s	122.10nm			
LRG	145.87	335	ePKP	33 04.20	0.8
	0.7s	122.15nm			
LMR	145.90	334	ePKP	33 04.20	0.7
	0.6s	159.45nm			
RJF	146.02	342	ePKP	33 04.80	1.1
CAF	146.19	341	ePKP	33 05.50	1.5
	1.1s	101.60nm			
LFF	146.58	342	ePKP	33 06.30	1.8
	0.6s	124.45nm			
LPO	146.68	342	ePKP	33 06.80	2.1
	0.7s	94.80nm			
CVT	146.80	321	PKP	33 05.60	0.5
BCAO	147.73	257	iPKPc	33 06 80	-0.5
	0.8s	46.00nm			
			id	34 15.80	
PTS	147.85	321	PKP	33 07.30	0.5
EPF	148.43	341	ePKP	33 11.40	3.7X
	0.7s	30.10nm			
KCHT	148.88	323	iPKPc	33 12.00	3.5X
ZGN	149.28	322	iPKPd	33 09.00	-0.2
EGRA	149.40	341	iPKPc	33 10.00	1.0
ECRI	149.63	345	iPKPc	33 11.00	1.5
TROT	150.12	321	iPKPc	33 16.00	5.5X
GHAT	150.25	324	iPKPc	33 15.50	4.9X
ESEL	150.37	335	iPKPc	33 16.50	5.9X
EROQ	150.39	339	iPKPc	33 16.50	5.9X
STS	150.48	354	iPKPc	33 16.90	6.2X
ERUA	150.78	351	iPKPc	33 17.70	6.5X
ETOR	151.18	343	iPKPc	33 19.30	7.4X
BERT	151 36	320	iPKPd	33 16.50	4.2X
GUD	151.89	346	iPKPc	33 13.80	0.8
ECHE	151.96	340	iPKPc	33 20.90	7.8X
EPLA	152.87	349	iPKPc	33 22.30	8.0X
EALH	153.68	339	ePKP	33 24.00	8.5X
EBAN	154.13	343	ePKP	33 25.50	9.4X
ELUQ	154.83	344	ePKP	33 26.80	9.7X
EHOR	154.84	346	ePKP	33 27.00	10.0X
EGUA	155.31	342	ePKP	33 27.00	9.3X
EPRU	155.64	345	iPKPc	33 29.00	10.8X
KIC	169.30	229	PKP	33 32.00	0.1
LIC	169.42	228	PKP	33 31.90	0.0
TIC	169.70	229	PKP	33 32.10	0.0
KING	176.49	180	PKP	33 34.50	-0.1
MAMG	176.67	196	PKP	33 34.20	-0.5
KDS	178.87	215	iPKP	33 34.80	0.0

S.D. = 0.9 on 242 of 358 obs.

MAY 25, 1993 02h 18m 34.78± 0.90s
41.140 S ± 7.4km 176.142 E ± 8.2km
DEPTH = 10.0km (geophysicist)
OFF E. COAST OF N. ISLAND, N.Z. (160)
ML 4.5 (WEL)

MTW	0.48	267	Pc	18 48.10	3.5X
PGZ	0.53	11	Pd	18 52.60	7.1X
BLW	0.55	245	P	18 51.70	5.7X
MNG	0.72	316	Pd	18 47.70	-1.3
			S	18 52.40	
MOW	0.73	247	Pd	18 53.40	4.3X
CAW	0.81	272	Pd	18 51.10	0.6
KIW	0 97	286	P	18 52.20	-1.0
WEL	1.05	262	P	18 55.80	1.3
			S	19 06.10	
MRW	1 09	265	P	18 56.10	0.9
TCW	1.41	266	Pd	19 00.30	-0.2
CCW	1.57	246	P	19 04.30	1.6
KHZ	2.33	236	P	19 14.20	0.5
			S	19 40.30	
MOZ	2.83	338	P	19 20.20	-0.6
			S	19 49.10	
URZ	2.97	15	P	19 22.70	-0.1
			S	19 57.00	
WLZ	3.29	352	eP	19 27.60	0.2
PUZ	3.47	29	eP	19 30.80	0.9
HBZ	3.91	26	eP	19 36.40	0.2
ODZ	5.61	224	eP	19 59.10	-1.1
			S	20 57.60	
TUZ	6.75	222	eP	20 14.40	-1.8

S.D. = 1.1 on 15 of 19 obs.

? MAY 25, 1993 02h 22m 15.72± 5.77s
44.079 N ±46.0km 12.624 E ±23.0km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

SFI	0.58	254	P	22 27.60	0.2
			eSg	22 35.30	
ARV	0.62	158	P	22 28.30	0.0
			eSg	22 37.40	
CRE	0.66	227	P	22 29.00	0.0
			eSg	22 38.00	
PGD	0.68	253	P	22 29.20	-0.2
			eSg	22 38.70	

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

MAY 25, 1993 02h 44m 09.38± 0.31s
44.464 N ± 2.0km 7.005 E ± 3.4km
DEPTH = 12.9 ± 3.4 km
NORTHERN ITALY (545)
ML 2.4 (LDG), 2.3 (GEN).

PZZ	0.08	59	Pc	44 12.62	0.2
			S	44 14.83	
DOI	0.18	77	P	44 14.00	0.3
			eSg	44 17.00	
STV	0.32	134	P	44 16.24	0.1
			S	44 20.82	
ENR	0.38	128	P	44 17.22	-0.2
			S	44 22.97	
BHB	0.42	26	P	44 18.23	0.2
			S	44 25.03	
RRL	0.48	341	Pd	44 18.76	-0.6
			S	44 25.71	
TOUF	0.48	159	Pg	44 19.07	-0.3
SAOF	0.62	140	Pg	44 21.78	0.2
			Sg	44 29.99	
AURF	0.62	158	Pg	44 21 59	-0.1
			Sg	44 30.53	
ROB	0.64	105	P	44 22.55	0.5
			S	44 32.03	
SBF	0.68	153	Pg	44 22.71	0.1
			Sg	44 32.53	
RSP	0.71	15	P	44 23.43	0.2
			S	44 33.64	
CALN	0.72	187	Pg	44 22.97	-0.4
REVF	0.77	160	Pg	44 24.84	0.7
IMI	0.84	131	P	44 25.86	0.4
			S	44 37.94	
FIN	0.90	106	P	44 27.08	0.7
			S	44 39.10	
FRF	0.94	196	Pg	44 22.00	-5.0X
			Sg	44 33.00	
LSD	1.00	6	P	44 28.83	0.6
			S	44 41.44	
LPG	1.05	350	Pg	44 29.40	0.3
			Sg	44 45.10	
LPL	1.07	350	Pg	44 29.80	0.4
			Sg	44 45 60	
PCP	1.10	85	P	44 30.81	0.9
			S	44 45.76	
LRG	1.11	205	Pg	44 31.00	1.1
			Sg	44 45.30	
LMR	1.19	198	Pg	44 31.90	0.7
			Sg	44 46.30	
CDR	1.19	229	e(Pg)	44 32.70	1.4
			e	44 47.00	
PGF	2.40	142	Pn	44 49.00	-0.1
			Sn	45 17.50	

S.D. = 0.5 on 24 of 25 obs.

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* MAY 25, 1993 03h 06m 32.66± 1.59s
23.431 S ±17.1km 66.934 W ±18.0km
DEPTH = 220.9 ± 11.7 km
JUJUY PROVINCE, ARGENTINA (128)

HJA	1.42	82	iPd	07 07.90	0.0
YJA	1.82	47	iPd	07 11.00	-0.9
			S	07 40.00	
SLA	1.84	135	iPd	07 12.00	0.2
			S	07 41 20	
MOCB	2 48	29	P	07 18.70	0.1
CNCB	6.66	351	P	08 12.20	2.3X
LPB	6.95	351	P	08 15.00	1.5
ZOBO	7.21	351	P	08 16.00	-1.1
			e	09 36.00	
ARE	8.15	327	eP	08 29.00	-0.1
			eS	09 57.00	
PPD	14.48	88	eP	09 50.30	1.3
VAO	18.36	93	eP	10 32.20	-1.2

S.D. = 1.2 on 9 of 10 obs.

? MAY 25, 1993 03h 07m 08.53±19.16s
14.992 N ±33.0km 59.351 W ±159.km
DEPTH = 33.0km (normal)
WINDWARD ISLANDS (95)
ML 3.1 (FDF).

CRM	1.53	261	eP	07 33.46	-0.4
MVM	1.56	254	eP	07 34.10	-0.1
BIM	1.73	254	eP	07 37.31	0.5
			S	07 57.60	
FDF	1.76	262	eP	07 37.04	-0.2
			S	07 56.00	
DEG	2.11	309	eP	07 42.00	-0.2
			S	08 04.00	
MGG	2.11	296	eP	07 42.50	0.3

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

MAY 25, 1993 03h 20m 53.11± 0.50s
37.605 N ± 4.9km 29.453 E ± 5.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
Felt in the Denizli oreo.

KHL	0.72	4	iPg	21 06.50	-0.8
			iSg	21 17.20	
BCK	0.91	99	iPn	21 10.30	-0.4
ELL	0.93	157	iPn	21 10.00	-0.9
CIN	1.08	270	iPgc	21 14.00	0.5
			iSg	21 30.00	
ALT	1.54	19	ePn	21 21.30	0.6
IZM	1.90	295	iPn	21 25.80	-0.1
DST	2.10	342	iPn	21 28.50	-0.3

KCT 2.78 342 ePn 21 37.90 -0.5
YLV 2.96 359 ePn 21 42.00 1.0
BNT 3.00 337 ePn 21 41.00 -0.5
EYL 3.01 10 ePn 21 42.00 0.2
EZN 3 30 313 ePn 21 46.00 0.1
CSS 4.09 129 eP 21 58.20 1.1
S.D. = 0.7 on 13 of 13 obs.

% MAY 25, 1993 03h 26m 59.07± 0.52s
43.090 N ± 6.8km 0.670 W ± 3.9km
DEPTH = 10.0km (geophysicist)
PYRENEES (378)
ML 1.0 (STR).

ATE 0.02 259 Pg 27 00.79 -0.3
Sg 27 01.94
ESCF 0.07 100 Pg 27 01.17 -0.3
Sg 27 02.74
ISSF 0.11 236 Pg 27 02.23 0.2
Sg 27 04.44
MADF 0.12 297 Pg 27 02.05 -0.1
OGE 0.16 61 Pg 27 02.78 -0.1
LHE 0.18 169 Pg 27 03.11 -0.1
Sg 27 05.97
JAU 0.23 103 Pg 27 04.42 0.4
Sg 27 07.34
ELYF 0.25 289 Pg 27 04.56 0.2
Sg 27 08.31
S.D. = 0.3 on 8 of 8 obs.

% MAY 25, 1993 03h 55m 11.63± 0.83s
40.575 N ± 8.0km 15.307 E ±10.7km
DEPTH = 5.0km (geophysicist)
SOUTHERN ITALY (390)

SGO 0.02 177 Pd 55 11.60 -1.1
eSg 55 14.00
MGR 0.48 157 P 55 21.50 0.3
eSg 55 28.90
CSI 1.10 136 P 55 31.30 -1.4
TDS 1.21 139 P 55 34.50 -0.1
DUI 1.26 330 P 55 35.50 0.0
ROI 1.39 136 P 55 37.80 0.0
BRT 1 47 78 P 55 36.80 -2.0
CZI 1.50 155 P 55 40.70 1.6
SDI 1.60 316 P 55 41.10 0 5
LCI 2.03 96 P 55 49.00 2.1
S.D. = 1 4 on 10 of 10 obs.

? MAY 25, 1993 04h 41m 07.57± 2.07s
31 281 S ±62.6km 68.502 W ±20.7km
DEPTH = 100.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.06 150 ePd 41 22.20 0.2
RTCB 0.33 231 ePd 41 22.00 -0.6
S 41 34.80
CFA 0.39 145 ePc 41 23.00 0.1
S 41 34.50
RTBS 0.90 245 ePc 41 27.40 0.3
S 41 42.30
S.D. = 0.7 on 4 of 4 obs.

? MAY 25, 1993 05h 59m 24.14± 0.96s
16.691 S ±46.7km 174.870 W ±34.7km
DEPTH = 33.0km (normal)
5.0mb (3 obs.) 4.7Msz (1 obs.)
TONGA ISLANDS (173)

DZM 18.42 250 iPc 03 41.20 2.4
CAN 37 13 233 eP 06 34.60 0.9
BWA 37.28 235 eP 06 32.70 -2.2
STK 42.18 241 eP 07 15.10 -0.4
1.2s 4.50nm 4.1mb
ASPA 48.38 253 eP 08 03.80 -1.4
1.2s 26.70nm 5.1mb
Z 21s 0.80um 4.7Msz
LRM 83.90 39 eP 11 48.00 -4.3X
BJI 85.34 314 eP 11 58.00 -1.2
1.3s 24.00nm 5.2mb
HJA 100.48 118 ePdiff 13 16.00 6.0X
KSP 144.77 348 ePKP 18 56.00 -3.2X
CLL 144.89 351 ePKP 19 01.00 1.7
BRG 145.17 350 e(PKP) 19 02.80 3.0
SPC 145.33 342 ePKP 18 58.30 -2.1
MOX 145 73 353 ePKP 18 58.50 -2.3X
1.7s 36.00nm

e 19 04.10
PRU 145.93 349 iPKPc 18 59.30 -1.8
1.5s 25.40nm
i 19 04.70
GRF 146.72 353 ePKP 19 02.00 -0.5
e 19 08.20
KHC 146.92 350 ePKP 19 03.00 0.2
e 19 10.50
e 20 10.50
ZST 147.08 345 ePKP 19 03.20 0.2
GEC2 147.18 350 ePKPc 19 03.20 -0.1
0.9s 2.08nm
e 19 08.00
e 19 18.20
FLN 147.69 7 ePKP 19 03.80 -0.2
HRI 147.88 307 ePKP 19 07.10 2.1X
LDF 147.89 7 ePKP 19 04.60 0.3
1.5s 36.05nm
GRR 148.01 8 ePKP 19 05.20 0.7
CDF 148.32 357 ePKP 19 06.30 1.1
LPF 148.34 8 ePKP 19 05.90 0.9
ARVI 149.28 302 ePKP 19 10.50 3.4X
LOR 149.49 2 ePKP 19 09.50 2.6X
1.4s 21.80nm
SSF 149.69 2 ePKP 19 10.00 2.8X
1.4s 34.00nm
LBF 149.78 2 ePKP 19 10.20 2.8X
MBH 149.82 301 ePKP 19 11.70 3.7X
VOY 149.85 348 e(PKP) 19 05.70 -1.9
e 19 08.40
MFF 149.85 7 ePKP 19 09.90 2.4X
1.9s 62.40nm
AVF 149.95 2 ePKP 19 10.10 2.5X
CEY 150.01 347 e(PKP) 19 08.50 0.7
VBY 150.05 346 e(PKP) 19 11.00 3.2X
SMF 150.11 2 ePKP 19 10.70 2.8X
BGF 150.16 3 ePKP 19 11.00 3.1X
1.5s 30.80nm
LSF 150.38 5 ePKP 19 11.10 2.8X
1.3s 26.35nm
TCF 150.39 4 ePKP 19 11.40 3.1X
1.6s 32.35nm
MAF 150.48 4 ePKP 19 11.80 3.4X
1.4s 23.95nm
SKO 151.18 334 iPKP 19 13.00 3.4X
LPL 151.23 358 ePKP 19 14.40 4.5X
LPG 151.25 358 ePKP 19 14.50 4.5X
RJF 151.31 5 ePKP 19 13.60 3.9X
OHR 152.16 334 iPKP 19 14.60 3.4X
S.D. = 1.5 on 21 of 44 obs.

• MAY 25, 1993 06h 23m 47.98± 1.28s
16.985 N ±11.9km 98.599 W ± 7.2km
DEPTH = 51.7 ± 7.8 km
4.2mb (10 obs.)
NEAR COAST OF GUERRERO, MEXICO (58)

ACX 1.21 265 iPd 24 06.32 -2.5
iS 24 18.50
III 1.61 329 iPc 24 14.64 0.0
OXX 1.80 87 iP 24 18.99 1.7
(S) 24 29.42
IIT 2.04 8 eP 24 21.25 0.4
PPM 2.07 359 eP 24 21.57 0.2
(S) 24 35.95
PUE 2.08 11 (P) 24 22.00 0.7
(S) 24 51.00
IIA 2.15 359 iP 24 23.17 1.1
IISM 2.31 30 iPd 24 24.83 0.6
UNM 2.40 347 (P) 24 26.00 0.2
(S) 25 04.00
MRX 3.66 318 iP 24 44.04 0.6
CGX 5.35 301 (P) 25 25.20 17.7X
SCX 5.72 92 (P) 25 41.82 29.4X
AGX 5.99 325 (P) 25 34.00 17.7X
TPX 6.44 108 (P) 25 34.00 11.4X
LTX 13.14 340 eP 26 52.94 -1.2
eSg 30 49.27
UYO 17.51 11 iPc 27 47.50 -2.5
MIAR 18.06 13 eP 27 54.65 -2.2
0.8s 11.41nm 4.1mb
OCO 18.49 3 iPd 28 03.40 1.3
ALO 19.21 340 ePc 28 09.46 -1.5
0.5s 3.44nm 3.9mb
OLY 19.51 18 eP 28 11.66 -2.2
e 28 21.80
e 28 27.00

GLA 21.68 321 ePc 28 36.82 0.6
ELC 21.85 20 eP 28 35.53 -2.3
e 28 40.54
FVM 22.12 17 ePc 28 41.01 0.5
0.6s 19.77nm 4.7mb
e 28 51.44
TKL 22.80 33 (P) 28 48.05 0.8
PLM 23.15 318 ePd 28 54.06 3.2X
GOL 23.39 347 ePc 28 53.50 0.3
0.6s 5.07nm 4.2mb
PEC 23.69 319 ePc 28 57.84 1.9
0.8s 7.34nm 4.2mb
e 29 15.35
SRU 24.38 337 eP 29 03.34 0.6
GSC 24.42 322 eP 29 04.59 1.5
ARUT 24.49 331 ePd 29 05.51 1.7
MSU 24.53 334 ePc 29 05.21 1.0
EMUT 25.10 337 eP 29 10.48 0.7
CEH 25.59 39 eP 29 13.61 -0.4
0.7s 11.84nm 4.5mb
e 29 26.07
DAU 25.79 337 ePc 29 16.70 0.5
e 29 29.25
DUG 26.21 335 ePc 29 20.31 0.4
0.7s 6.50nm 4.3mb
e 29 32.71
BCH 26.37 318 ePc 29 24.95 3.5X
e 29 35.83
BONR 27.13 324 eP 29 29.01 0.5
BW06 27.36 342 ePd 29 29.89 -0.6
0.9s 6.19nm 4.2mb
RSSD 27.44 351 eP 29 31.04 -0.1
0.7s 1.82nm 3.8mb
HVU 27.55 337 eP 29 31.95 -0.2
LRM 30.99 341 ePd 30 02.90 0.0
e 30 21.00
ULM 33.26 3 eP 30 22.50 0.2
JAQ 40.83 21 eP 31 25.00 -1.0
pP 31 37.00 44kmX
MDZ 57.17 150 i(P) 33 23.80 -8.3X
M8C 60.26 354 eP 33 52.50 -0.5
1.0s 5.00nm 4.6mb
pP 34 05.00 44kmX
S.D. = 1.2 on 38 of 45 obs.

& MAY 25, 1993 06h 23m 50.98s
60.914 N 149.277 W
DEPTH = 28.1km
KENAI PENINSULA, ALASKA (14)
<AEIC>. ML 3.6 (AEIC), 3.8
(PMR). Felt (V) at Anchorage;
(III) at Cooper Landing, Eagle
River and Hope; (II) at Palmer.

PTE 0.13 112 iPd 23 55.98 -0.3
eS 24 00.09
PMS 0.36 338 P 23 58.70 -0.5
MPA 0.43 186 iPd 23 59.29 -0.9
eS 24 05.81
SLKM 0.62 229 iPc 24 02.65 -0.6
PLRM 0.68 6 iPd 24 03.05 -1.2
eS 24 12.55
PMR 0.68 6 iPc 24 02.74 -1.6
PWA 0.79 339 P 24 05.00 -1.1
SEW 0.82 186 iPc 24 04.90 -1.6
eS 24 16.30
GHO 0.88 11 iPd 24 06.24 -1.2
eS 24 18.45
SUA 0.90 308 iPc 24 06.68 -1.1
eS 24 19.36
NKA 0.98 261 iPc 24 09.75 1.0
SML 1.01 26 iPd 24 07.91 -1.3
eS 24 22.67
SCM 1.32 45 iPc 24 12.91 -0.8
eS 24 30.63
SPU 1.38 282 iPc 24 13.92 -0.6
eS 24 32.13
CGLM 1.38 288 iPc 24 14.13 -0.5
BRLK 1.40 215 eP 24 14.45 -0.4
eS 24 32.72
CPAM 1.43 285 iPc 24 15.13 -0.3
CRP 1.44 285 iPc 24 15.28 -0.3
CKN 1.45 284 iPc 24 15.32 -0.2
VLZ 1.45 80 eP 24 13.91 -1.6
eS 24 32.73
HIN 1.46 110 iPd 24 13.97 -1.8
eS 24 33.87

25d 06h

CKL	1.52	282	iPc	24	16.23	-0.4
SKT	1.52	316	iPc	24	16.20	-0.4
			eS	24	37.06	
BGL	1.55	284	iPc	24	16.86	-0.3
CNPM	1.70	216	ePd	24	18.63	-0.6
			eS	24	40.19	
DFR	1.70	261	iPc	24	18.90	-0.4
KLU	1.73	69	iPd	24	18.53	-1.1
			eS	24	40.12	
RDN	1.76	258	iPc	24	19.80	-0.3
CVA	1.77	100	iPd	24	18.28	-1.9
NCT	1.83	260	iPc	24	20.76	-0.4
XLV	1.91	221	P	24	22.70	0.6
ILIM	2.01	247	eP	24	23.04	-0.6
			eS	24	48.17	
SGAM	2.04	100	ePd	24	21.80	-2.3
INE	2.06	247	eP	24	23.99	-0.5
HUR	2.08	355	iPc	24	25.24	0.6
			eS	24	51.01	
INW	2.09	248	eP	24	24.13	-0.8
MID	2.09	134	P	24	24.70	-0.1
TZL	2.17	57	eP	24	24.91	-1.0
RAGM	2.33	101	ePd	24	25.53	-2.6
OPT	2.34	239	eP	24	27.90	-0.4
SDG	2.40	46	eP	24	28.88	-0.4
RND	2.51	4	eP	24	30.28	-0.6
AUE	2.58	235	eP	24	32.04	0.4
AUL	2.59	235	eP	24	32.37	0.5
TRF	2.59	350	ePc	24	31.47	-0.6
AUH	2.60	235	eP	24	32.71	0.6
AUW	2.61	235	eP	24	32.72	0.6
AUI	2.61	234	eP	24	32.08	-0.1
GLB	2.70	76	iPd	24	31.77	-1.7
			eS	25	04.30	
PAX	2.74	39	ePc	24	33.34	-0.7
SYI	2.80	216	eP	24	34.47	-0.3
MCK	2.83	3	eP	24	36.11	0.8
CDD	2.97	230	eP	24	36.47	-0.8
CROM	3.01	90	eP	24	35.58	-2.4
SVW	3.10	276	P	24	37.70	-1.4
TGL	3.16	90	eP	24	37.65	-2.4
BALM	3.38	85	eP	24	40.85	-2.4
KDC	3.58	209	(P)	24	43.36	-2.5
WRH	3 61	8	eP	24	46.31	-0.1
HDA	3.67	16	eP	24	47.34	0.2
DOT	3.67	39	eP	24	47.24	0.0
NEA	3.68	1	eP	24	48.01	0.7
YAH	3 75	95	ePd	24	45.71	-2.8
TTA	3.77	305	ePc	24	46.80	-1.9
CCB	3.81	10	eP	24	48.30	-0.8
CTGM	3.88	86	ePc	24	48.31	-1.9
FBA	4 06	9	eP	24	51.59	-1.1
			eS	25	37.87	
MDM	4.09	6	eP	24	53.00	-0.2
GLM	4.18	11	eP	24	55.21	0.7
MLY	4.19	351	eP	24	53.08	-1.5
PRP	4.92	19	eP	25	05.05	0.0
IMA	5 54	341	ePnd	25	11.06	-2.7

72 obs. associated

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* MAY 25, 1993 06h 32m 34.49± 1.63s
31.244 S ±13.5km 68.181 W ±11.6km
DEPTH = 96.9 ± 22.0 km
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.26	251	ePc	32	49.20	0.1
CFA	0.37	188	iPc	32	49.20	-0.1
			(S)	32	56.00	
ZON	0.52	235	iPd	32	50.30	-0.1
			eS	33	01.30	
RTCB	0.58	245	iPd	32	51.00	0.1
RTBS	1.16	249	iPc	32	56.80	0.0
MRA	2.41	120	iPc	33	12.90	0.1
			S	33	37.80	
CYA	3.48	37	ePd	33	27.50	0.0
			S	34	06.70	

S.D. = 0.1 on 7 of 7 obs.

MAY 25, 1993 07h 07m 12.08± 0.40s
39.404 N ± 3.8km 0.826 W ± 4.4km
DEPTH = 10.0km (geophysicist)
SPAIN (377)
mbLg 3.5 (MDD). Felt (III) in the Bunol area.

ECHE	0.22	329	iPgc	07	16.90	0.1
ACU	0.95	160	ePg	07	31.20	1.0
			eSg	07	44.00	
EVIA	1.51	240	ePn	07	39.00	-0.3
			eSn	07	59.00	
EALH	1.61	197	ePn	07	42.90	2.2X
			eSn	08	03.00	
ETOR	1.70	327	iPnc	07	42.30	0.3
			eSn	08	05.50	
EROQ	1.70	33	ePn	07	42.00	0.0
			eSn	08	03.00	
EHUE	2.11	222	ePn	07	47.90	0.0
			eSn	08	14.00	
EBAN	2.62	243	iPnc	07	54.50	-0.7
GUD	2.84	297	ePn	07	58.70	0.3
			eSn	08	34.50	
ESEL	2.90	82	iPnc	07	57.90	-1.2
			eSn	08	31.00	
ECOG	3.03	226	ePn	08	00.90	-0.1
			eSn	08	36.80	
ELUQ	3.27	237	ePn	08	03.60	-0.8
			eSn	08	43.00	
EGUA	3 35	221	ePn	08	06.70	1.1
			eSn	08	46.50	
ECRI	3.45	339	ePn	08	07.60	0.7
			eSn	08	47.50	
EPF	3.73	13	Pn	08	11.10	0.1
MAL	3.89	228	ePn	08	14.00	0.8
			iSg	08	59.00	
ETER	4.02	43	ePn	08	14.90	-0.1
			eSn	08	59.50	
EPLA	4.10	281	ePn	08	16.30	0.1
EVAL	4.99	250	ePn	08	27.50	-1.3
RJF	6.15	16	Pn	08	42.00	-3.1X
			Sn	09	47.30	
MAF	7.25	19	Pn	08	56.00	-4.7X
			Sg	10	56.10	

S.D. = 0.7 on 18 of 21 obs.

? MAY 25, 1993 07h 21m 31 49±19.25s
33.983 S ±53.9km 72.558 W ±145.km
DEPTH = 33.0km (normal)
OFF COAST OF CENTRAL CHILE (134)
MD 4.1 (SAN).

LNV	0.95	89	iP	21	48.33	-0.2
			iS	22	01.12	
LCCH	0.97	59	iP	21	48.53	-0.2
			iS	22	02.12	
TACH	1.39	77	iP	21	54.42	-0.4
			iS	22	13.59	
CHCH	1.58	89	iP	21	57.96	0.3
			iS	22	18.77	
ROCH	1.64	52	iP	21	58.60	0.0
			iS	22	22.45	
SAN	1.67	72	iP	21	58.80	0.0
			iS	22	22.06	
PCH	1.74	79	iP	21	59.88	-0.1
			iS	22	23.46	
PEL	1.77	62	iPd	22	00.70	0.3
			iS	22	24.66	
FCH	2.00	72	iP+	22	04.26	0.3
			iS	22	30.58	
JACH	2.10	52	iP	22	05.05	0.0
			iS	22	33.28	
MDZ	3.29	72	i(P)	22	31.70	9.7X
RFA	3.47	104	ePd	22	28.60	3.9X
			(S)	23	20.00	
RTBS	3.49	49	e(P)d	22	27.40	2.6X
RTCB	4.03	53	ePd	22	34.50	2.0X
CFA	4.34	58	e(P)	22	38.50	1.6X
RTLL	4.35	54	eP	22	37.50	0.5X

S.D. = 0.3 on 10 of 16 obs.

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* MAY 25, 1993 08h 12m 39.17± 1.57s
12.416 S ± 9.7km 166.908 E ± 8.7km
DEPTH = 255.1 ± 15.1 km
4.5mb (17 obs.)
SANTA CRUZ ISLANDS (184)

BKM	5.38	166	iP	13	59.60	-0.7
			iS	15	02.00	
SVO	7.69	294	eP	14	39.00	9.8X
DZM	9.61	183	iPc	14	54.10	0.2
			iS	16	44.00	
CTA	21.23	246	iPc	17	08.00	1.9
	1.0s		10.00nm			4.3mb
			i	17	43.00	
ARMA	22.83	216	iPd	17	23.70	2.1
	0.8s		16.00nm			4.6mb
MNG	29.09	167	eP	18	17.30	-1.0
THZ	29.70	171	P	18	23.60	-0.1
STK	30.28	226	eP	18	28.30	-0.5
	0.9s		2.10nm			3.8mb
KHZ	30.44	170	eP	18	29.60	-0.5
LTZ	30.61	172	P	18	32.10	0.5
WB2	32.11	252	eP	18	43.90	-1.0
	0.6s		6.00nm			4.4mb
WRA	32.12	252	P	18	44.20	-0.8
	0.8s		2.40nm			3.9mb
ASPA	33.24	246	iPd	18	53.70	-0.9
	0.7s		14.60nm			4.7mb
WARB	40.22	244	iPc	19	48.00	-4.8X
	0.3s		3.00nm			4.2mb
DAV	45.43	293	eP	20	40.90	6.1X
MEEK	47.39	245	eP	20	50.00	0.0
MAT	55.70	332	eP	21	50.00	-1.6
	0.9s		10.92nm			4.4mb
SSE	61.62	316	Pc	22	31.50	-0.7
	0.8s		9.00nm			4.4mb
CSY	65.54	202	iPc	22	58.00	0.9
	0.5s		10.60nm			4.8mb
KMI	72.80	301	Pd	23	44.00	1.7
	1.6s		50.00nm			5.0mb
			pP	23	56.50	43kmX
CHTO	73.82	294	ePc	23	48.70	0.7
	1.1s		16.20nm			4.7mb
LZH	76.51	312	Pc	24	04.20	1.1
	1.4s		42.00nm			5.0mb
Z	22s		0.26um			4.5Msz
BALM	83.44	22	eP	24	39.30	0 2
IMA	83.52	15	eP	24	40.00	0.6
	1.0s		3.25nm			4.1mb
FBA	84.27	18	iPc	24	42.18	-0.8
	0.9s		11.48nm			4.7mb
ARUT	89.50	51	eP	25	09.65	0 6
NEW	90.04	40	eP	25	11.50	0.4
	1.0s		7.00nm			4.5mb
DUG	90 63	49	(P)	25	15.17	1.0
	1.1s		2.67nm			4.1mb
MSU	90.66	51	eP	25	16.23	1.8
			e	26	10.32	
HVU	91.08	48	eP	25	17.16	1.0
HYB	92 11	287	eP	25	22.00	0 8
KAF	122.92	339	iPKP	31	05.80	-0.1
	0.5s		2.30nm			
NUR	124.60	338	ePKP	31	09.30	0.0
	0.3s		4.80nm			
NB2	128.31	345	PKP	31	16.90	0.4
	0.9s		2.80nm			
GEC2	137.43	334	ePKP	31	34.70	0.4
	1.0s		2.00nm			
			e	31	42.10	
SSF	142.75	341	ePKP	31	40.30	-3.4X
LPL	142.95	337	ePKP	31	42.20	-2.2X
LPG	142.95	337	ePKP	31	42.40	-2.1X
SMF	143.01	341	ePKP	31	41.90	-2.3X
BGF	143.40	341	ePKP	31	43.20	-1.6
MAF	143.79	342	ePKP	31	44.70	-0.8
TCF	143.84	342	ePKP	31	44.60	-1.0
SAOF	143.87	334	PKP	31	44.15	-1.6
AUTN	143.92	335	PKP	31	44.39	-1.7
TOUF	143.98	335	PKP	31	44.39	-1.8
SBF	144.02	334	PKP	31	44.69	-1.4
AURF	144.05	335	PKP	31	44.74	-1.4
LSF	144.07	343	ePKP	31	45.30	-0.7
	1.3s		49.10nm			
MFF	144.21	345	ePKP	31	45.80	-0.4
	1.2s		49.70nm			
CALN	144.34	335	PKP	31	45.63	-1.1
PGF	144.37	332	PKP	31	46.30	-0.4
FRF	144.60	335	ePKP	31	47.00	0.0
	1.1s		43.20nm			
LRG	144.81	335	ePKP	31	48.00	0.7
	1.1s		63.25nm			
LMR	144.84	335	ePKP	31	47.90	0.5
	1.2s		72.60nm			
CDR	144.86	336	ePKP	31	47.70	0.3
RJF	144.93	342	ePKP	31	48.60	1.1
	1.3s		63.55nm			
CAF	145.11	341	ePKP	31	49.30	1.5
	1.3s		29.25nm			
LPO	145.60	342	ePKP	31	50.50	1.9
BCAO	147.75	259	iPKPc	31	56.50	3.5X
	0.9s		22.00nm			
			ic	32	00.40	

id 32 53.70
S.D. = 1.1 on 51 of 59 obs.

% MAY 25, 1993 08h 26m 17.54± 0.85s
39 100 N ± 7.2km 27.561 E ± 8.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

IZM	0.74	199	ePg	26 32.00	-0.1
			eSg	26 43.00	
DST	0.97	58	ePn	26 36.20	0.2
EZN	1.20	308	ePn	26 40.00	0.1
EDC	1.27	11	ePn	26 41.00	-0.1
KCT	1.30	28	iPn	26 41.40	-0.2

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

% MAY 25, 1993 09h 33m 44.00± 0.84s
39.173 N ± 7.3km 27.631 E ± 8.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

IZM	0.83	201	ePg	34 00.00	0.0
			eSg	34 13.00	
DST	0.89	60	ePn	34 01.00	0.0
EDC	1.19	9	ePn	34 06.00	-0.1
EZN	1.20	303	ePn	34 06.40	0.0
KCT	1.21	27	ePn	34 06.70	0.1

S.D = 0.1 on 5 of 5 obs.

? MAY 25, 1993 09h 41m 42.15± 0.91s
39.048 N ± 9.5km 29.521 E ± 8.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

ALT	0 46	89	iPg	41 51.40	-0 1
			iSg	41 58.90	
KHL	0.72	180	ePg	41 56.50	0.1
			eSg	42 06.50	
DST	0.89	309	ePg	41 58.70	-0.5
			eSg	42 09.70	
KCT	1.50	324	ePn	42 09.70	0.6

S D. = 0.8 on 4 of 4 obs.

? MAY 25, 1993 09h 48m 57.39± 6.15s
39.365 N ±43.0km 29.651 E ±24.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.6 (ISK).

DST	0.83	287	ePg	49 13.00	-0.4
			eSg	49 25.00	
YLV	1 22	350	ePn	49 19.70	-0.4
EYL	1.26	18	ePn	49 21.00	0.1
KCT	1.33	312	iPn	49 22.40	0.4

S.D = 0.7 on 4 of 4 obs.

MAY 25, 1993 09h 50m 38.73± 0.42s
36.588 N ± 5.9km 141.342 E ± 5.4km
DEPTH = 43.9km (6 depth phases)
4.7mb (10 obs.)
NEAR EAST COAST OF HONSHU, JAPAN(228)

KAKJ	1.02	248	iPd	50 55.40	-1.3
			S	51 06.80	
YAMJ	1.89	327	P	51 09.20	0.0
			eS	51 33.30	
CHJJ	1.97	255	P	51 09.20	-1.1
			S	51 30.50	
NIIJ	1.99	290	iP+	51 09.90	-0.6
			S	51 35.00	
OFUJ	2.50	6	P	51 17.50	-0.3
			eS	51 48.40	
MAT	2.52	270	iPc	51 18.00	-0.2
			iS	51 49.20	
MTMJ	2.85	271	iP+	51 22.80	-0.1
IIDJ	2.99	249	P	51 25.90	1.0
			S	51 59.80	
AOMJ	4.04	349	eP	51 40.40	0.8
TSRJ	4.47	258	P	51 46.90	1.2
			S	52 38.20	
WKYJ	5.26	245	P	51 57.10	0.2
MRRJ	5 83	358	eP	52 04.30	-0.6
			eS	53 14.10	
HOOJ	5 98	14	eP	52 06.50	-0.5
			eS	53 11.90	
TKSJ	6.51	249	P	52 14.20	-0.2
			eS	53 29.90	
YONJ	6.55	260	P	52 16.40	1 4
			eS	53 31.60	
KUSJ	7.00	21	eP	52 18.20	-3.0X
			eS	53 33 40	
ASAJ	7.59	7	eP	52 27.70	-1.8
SHNJ	8.71	257	eP	52 47.10	2.0
KUMJ	9.57	248	eP	52 58.60	1.8
KAGJ	10.22	241	eP	53 04.50	-1.3
BJI	20.03	288	eP	55 10.00	-0.6
FBA	49.51	32	eP	59 27.50	1.0
	0.6s		2.96nm		4.5mb
			epP	59 39.70	44km
KLU	50.56	36	eP	59 35.86	1.2
WB2	56.61	188	iPc	00 18.00	-1.6
	0.5s		11.60nm		5.2mb
WRA	56.61	188	P	00 18.20	-1.4
	0.5s		11.70nm		5.2mb
MBC	56.97	16	eP	00 21.00	-0.6
ASPA	60.34	188	iPc	00 44.30	-1.2
	0.8s		7.90nm		4.9mb
WARB	63.95	195	eP	01 03.50	-6.1X
	0.5s		6.00nm		4.9mb
STK	68.11	180	eP	01 35.60	-0.4
	0.4s		2.50nm		4.6mb
OBN	68.41	323	eP	01 27.00	-10.7X
			i	02 17.00	213kmX
			e	04 45.00	
KAF	68.68	333	iP	01 37.80	-1.5
	0.4s		1.90nm		4.4mb
NUR	70.32	332	eP	01 47.30	-2.0
	0.3s		2.30nm		4.6mb
FCC	74.43	26	eP	02 21.00	7.4X
LRM	74.51	44	ePd	02 15.70	1.0
			e	02 28.40	43km
FRB	77.22	13	eP	02 30.00	0.7
BW06	78.01	45	eP	02 35.50	1.1
	0.6s		1.16nm		4.1mb
			epP	02 48.20	43km
SRU	79.75	49	eP	02 45.11	1.2
			epP	02 57.75	43km
RSSD	80.20	42	eP	02 46.40	0.2
	0.5s		0.81nm		3.9mb
PV09	80.98	48	eP	02 52.00	1.5
			epP	03 05.00	44km
BRG	81.41	329	e(P)	03 05.20	13.1X
CLL	81.45	330	iP	03 05.40	13.1X
GEC2	83.06	328	eP	03 13.50	12.6X
	0.7s		0.93nm		
			e	03 31.90	67kmX
LTX	90.44	52	eP	03 36.95	-0.3
			epP	03 50.84	47km
ZOBO	146.96	60	PKP	10 18.00	0.8
LPB	147.16	60	PKP	10 20.00	2.7X
CNCB	147.43	61	PKP	10 22.00	4.1X
CCH	149.10	59	ePKP	10 29.00	8.7X
SIV	151.41	50	PKP	10 29.20	5.8X
MOCB	152.00	64	PKP	10 31.80	7.1X

S.D. = 1.1 on 37 of 49 obs

* MAY 25, 1993 10h 10m 39.82± 0.65s
36.421 N ±10.6km 69 694 E ±13.7km
DEPTH = 33.0km (normal)
4.5mb (7 obs.)
HINDU KUSH REGION, AFGHANISTAN (718)

QUE	6.63	201	eP	12 17.50	-0.1
			eS	13 38.20	
MAIO	8.23	272	ePn	12 37.00	-3.0X
			eSn	14 06.00	
NDI	9.99	138	iPc	13 05.00	0.9
	0.7s		109.59nm		6.2mb X
KKN	15.75	119	P	14 17.20	-3.8X
	0.6s		34.00nm		4.7mb
HYB	20.49	155	ePc	15 18.50	0 8
GBA	23.76	161	P	15 52.00	1.9X
NUR	37.28	325	eP	17 51.00	1.0
	0.3s		2.50nm		4.6mb
HFS	42 48	322	eP	18 33.30	0.2
	0.5s		4.20nm		4.4mb
Z	16s		0.07um		3.6MszX
			LR	36 20.00	
NB2	43.81	323	P	18 44.10	0.1
	0.6s		3 30nm		4.3mb
BCAO	56.65	248	ePc	20 21.80	-0.6
	0.6s		3.00nm		4.5mb
WRA	82.85	121	P	23 01.90	-0.6
	0.5s		0.80nm		4.1mb
WB2	B2.86	121	eP	23 00.70	-1.8
	0.4s		3 90nm		4.8mb

S.D. = 1.0 on 9 of 12 obs.

% MAY 25, 1993 10h 16m 22.89± 0.96s
40.846 N ± 8.5km 28.726 E ±11.2km
DEPTH = 33.0km (normal)
TURKEY (366)
ML 2.8 (ISK).

ISK	0.33	49	iPg	16 31.00	-0.1
CTT	0.38	323	iPg	16 32.20	0.5
KCT	0 66	205	ePg	16 36.00	0.2
DMK	1.22	324	iPg	16 43.30	-0.4
			iSg	16 57.80	
EZN	2.10	242	ePn	16 56.10	-0.3

S.D = 0.5 on 5 of 5 obs.

? MAY 25, 1993 10h 29m 26.93± 5.49s
35.808 S ±44 2km 70.861 W ±21.9km
DEPTH = 33.0km (normal)
CHILE-ARGENTINA BORDER REGION (127)
MD 4.1 (SAN).

CHCH	1.88	5	iP	29 55.69	-1.7
			iS	30 15.50	
LNV	1.90	346	iP	29 57.26	-0 4
			iS	30 17.90	
TACH	2.15	358	iP	30 00.35	-0.8
			iS	30 23.40	
PCH	2.20	8	iP	30 01.13	-0.8
			iS	30 24.93	
SAN	2.36	4	iP	30 04.41	0.3
LCCH	2.40	346	iP	30 05.23	0.5
			iS	30 32.07	
FCH	2.52	11	iP	30 07.10	0.3
			iS	30 34.35	
PEL	2.66	3	iP	30 09.25	0.8
			iS	30 38.66	
ROCH	2.83	357	iP	30 11.83	0.8
			iS	30 43.68	
JACH	3.13	4	iP	30 16.29	1.1
MDZ	3.36	30	i(P)	30 24.50	6.1X
RTBS	4.30	16	e(P)d	30 35.80	4.1X
RTCB	4.64	22	ePd	30 39.50	2.9X
CFA	4.73	28	ePd	30 40.20	2.4X
RTLL	4.89	25	ePc	30 42.00	1.8X
MRA	5.45	53	eP	30 48.10	0.1
CNCB	19.09	8	P	33 53.00	2.8X
ZOBO	19.61	8	P	33 56.00	-0.2

S.D. = 0.9 on 12 of 18 obs.

% MAY 25, 1993 10h 35m 24.45± 1.09s
39.202 N ± 8.1km 29.041 E ±12.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

ALT	0.84	100	ePg	35 41.00	0.2
			eSg	35 52.50	
KHL	0.96	157	iPg	35 42.60	-0.1
			iSg	35 55.10	
KCT	1.17	333	ePn	35 46.50	0.2
YLV	1.39	11	ePn	35 49.70	-0.2
EYL	1.61	32	ePn	35 53.00	-0.1

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

* MAY 25, 1993 11h 05m 21.57± 1.24s
37.441 N ± 8.7km 137.530 E ±10.3km
DEPTH = 36.5 ± 12.8 km
4.5mb (7 obs.)
NEAR WEST COAST OF HONSHU, JAPAN(226)

MAT	1.05	149	iPc	05 40.60	0.6
			iS	05 57.00	
MRRJ	5.67	28	eP	06 45.90	0.3
HOOJ	6.63	40	eP	06 59.10	0.1
ASAJ	7.71	29	eP	07 13.80	-0.5
KUSJ	7.88	42	eP	07 15.00	-1.5
BJI	16.86	285	eP	09 18.50	2.2
LZH	26.94	277	eP	11 00.00	-1.6
	1.5s		32.00nm		4.7mb
IMA	47.92	31	eP	13 57.40	-0.6
	0.7s		1.45nm		4.1mb

25d 11h

WB2	57.15	184	iPc	15	06.00	-1.1
	0.6s		11.00nm		5.1mb	
GBA	58.17	263	P	15	13.00	-1.4
ASPA	60.88	184	eP	15	32.70	-0.1
	1.0s		6.00nm		4.7mb	
WARB	64.11	191	eP	15	48.90	-5.4X
	0.4s		2.00nm		4.6mb	
LRM	75.98	43	eP	17	07.50	0.7
TNP	78.08	51	eP	17	19.47	1.0
	0.7s		2.72nm		4.4mb	
BW06	79.55	44	eP	17	26.89	0.4
	0.7s		1.17nm		4.0mb	
PV09	82.65	47	eP	17	44.50	1.5
S.D. = 1.3 on 15 of 16 obs.						

? MAY 25, 1993 11h 19m 31.20± 9.94s
45.557 S ±26.0km 166.099 E ±79.0km
DEPTH = 33.0km (normal)
OFF W. COAST OF S. ISLAND, N.Z. (161)
ML 4.0 (WEL).

BCZ	1.30	111	Pd	19	54.40	1.3
			eS	20	07.10	
MSZ	1.56	56	Pc	20	03.80	6.8X
			S	20	23.80	
TLC	2.13	81	P	20	06.50	1.3
CMCZ	2.28	81	Pc	20	08.00	0.7
			S	20	31.50	
MHZ	2.30	79	P	20	08.60	1.0
SBCZ	2.31	80	Pc	20	08.50	0.7
LRCZ	2.34	79	P	20	09.00	0.7
LSCZ	2.35	80	Pc	20	08.70	0.4
TUZ	2.51	100	P	20	08.10	-2.4
			S	20	30.20	
ODZ	3.25	83	P	20	18.60	-2.4
			S	20	50.50	
LTZ	5.23	60	P	20	47.60	-1.6
DSZ	5.62	49	eP	20	54.80	0.1
ORZ	6 66	47	eP	21	09.70	0.4
S.D. = 1.5 on 12 of 13 obs.						

MAY 25, 1993 11h 21m 25 30± 1 29s
38.472 S ± 7.7km 177.358 E ± 9.2km
DEPTH = 116.1 ± 13.5 km
NORTH ISLAND, NEW ZEALAND (159)

URZ	0.29	317	Pd	21	37.90	-3.8
			S	21	43.90	
PAHZ	0.45	212	P	21	41.60	-1.2
NGZ	0.55	105	Pc	21	43.40	0.0
MOH	0.68	194	P	21	44.80	0.5
TAZ	0.71	289	P	21	43.30	-1.3
WHH	0.79	238	P	21	44.90	-0.5
PUZ	0.81	61	P	21	45.60	0.1
MAHZ	0.82	150	P	21	46.30	0.7
PATZ	0.87	276	P	21	45.40	-0.7
UTU	0.96	287	eP	21	46.60	-0.3
TTH	1.14	201	P	21	50.40	1.6
HBZ	1.15	41	eP	21	50.20	1.4
WAHZ	1.45	212	P	21	53.70	1.4
WLZ	1.51	293	P	21	53.60	0.6
			eS	22	10.30	
NGZ	1.54	242	P	21	55.20	1.7
TEHZ	1.57	195	P	21	54.70	1.0
CNZ	1.59	242	P	21	55.80	1.7
MOZ	2.01	268	P	22	01.40	2.3
KUZ	2 16	322	P	22	01.40	0.4
BSZ	2.31	234	eP	22	05.80	2.8X
MNG	2.59	213	Pd	22	07.30	0.6
			S	22	38.60	
MTW	3.04	207	P	22	12.30	-0.4
KIW	3.04	218	P	22	13.30	0.5
CAW	3.17	213	P	22	14.30	-0.1
BLW	3.23	206	eP	22	14.90	-0.4
MRW	3.43	216	eP	22	17.10	-0.8
			eS	22	58.00	
WEL	3.44	215	eP	22	18.10	0.0
TCW	3.62	220	eP	22	19.70	-0.8
ORZ	4.41	236	eP	22	34.30	3.1X
			eS	23	23.80	
THZ	4.74	225	eP	22	35.80	0.0
			eS	23	29.30	
KHZ	4.90	215	eP	22	36.70	-1.2
			eS	23	29.40	
LTZ	5.79	220	eP	22	49.50	-0.7
ODZ	8.26	215	eP	23	21.70	-2.1
ASPA	39.67	279	eP	28	59.30	11.8X

	0.3s		3.70nm			
S.D. = 1.3 on 31 of 34 obs.						

% MAY 25, 1993 11h 51m 58.61± 0.93s
40.597 N ±12.3km 29.959 E ± 6.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

EYL	0.15	101	iPg	52	02.10	-0.2
HRT	0.32	316	iPg	52	04.60	-0.6
YLV	0.45	266	iPg	52	07.20	-0.6
KCT	1.27	255	iPn	52	22.60	0.4
CTT	1.28	296	iPn	52	22.10	-0.3
DMK	2.06	307	ePn	52	35.00	1.3
S.D. = 0.9 on 6 of 6 obs.						

• MAY 25, 1993 12h 16m 32.30± 1.06s
50.891 N ±13.8km 15.728 E ± 6.6km
DEPTH = 10.0km (geophysicist)
CZECH AND SLOVAK REPUBLICS (547)
MG 2.7 (WAR).

KSP	0.36	97	iPd	16	39.70	0.0
	0.3s		40.00nm			
			iS	16	48.20	
PRU	1 18	220	ePn	16	55.10	0.8
	0.4s		50.60nm			
			Pg	16	58.90	
			i	17	04.50	
			eSn	17	17.90	
			Sg	17	23.20	
CLL	1.77	285	(Pg)	17	03.00	-0.1
			eSg	17	31.00	
KHC	2 24	219	Pn	17	18.90	8.8X
	0.6s		4.50nm			
			Pg	17	26.90	
			Sn	17	47.50	
			Sg	17	57.90	
GEC2	2.43	213	Pn	17	19.70	6.9X
			Pg	17	23.10	
			Sn	17	52.80	
			Sg	18	05.20	
WET	2.54	228	eP	17	17.60	3.4X
MOX	2.62	266	ePg	17	23.00	7.6X
			iSg	18	03.00	
OJC	2.68	103	eP	17	16.50	0.2
			eS	17	52.20	
KBA	4.13	203	e(Pn)	17	36.00	-0.9
			i	18	04.50	
			i(Sg)	19	00.60	
S.D. = 0.9 on 5 of 9 obs.						

? MAY 25, 1993 12h 28m 57.84± 3.97s
39.502 N ±29.8km 29.499 E ±17.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.6 (ISK).

DST	0.68	279	ePg	29	11.00	-0.4
			eSg	29	22.00	
YLV	1.07	355	iPn	29	17.60	-0.4
KCT	1.15	311	iPn	29	19.60	0.2
EYL	1.18	25	ePn	29	20.00	0.1
EDC	1.51	304	ePn	29	25.50	0.5
S.D. = 0.6 on 5 of 5 obs.						

% MAY 25, 1993 12h 31m 37.69± 0.61s
40.527 N ± 5.3km 15.805 E ± 5.2km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.38	275	P	31	45.90	0.4
			eSg	31	53.00	
MGR	0.43	206	P	31	46.40	-0.1
			eSg	31	53.50	
CSI	0.84	153	P	31	53.60	-0.3
TDS	0.96	155	P	31	56 80	0.9
BAI	1 00	53	P	31	57.00	0.4
			eSg	32	11.00	
BRT	1.12	71	P	31	58 70	0.0
			eSg	32	14.30	
ROI	1.12	148	P	31	57.40	-1.3
CZI	1.33	169	P	32	02.90	0.7
DUI	1.52	319	P	32	07.00	2.0X
LCI	1.65	96	P	32	09.50	2.7X
SDI	1.91	309	P	32	10.00	-0.6

SOI	2.46	175	P	32	20.00	1.6X
S.D. = 0.8 on 9 of 12 obs.						

? MAY 25, 1993 12h 41m 03.60± 4.02s
39.559 N ±30.0km 29.524 E ±19.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

DST	0.69	274	ePg	41	17.00	-0.4
			eSg	41	28.00	
YLV	1.01	353	iPg	41	22.00	-0.8
EYL	1.12	26	ePn	41	25.00	0.4
KCT	1.13	308	ePn	41	25.60	0.8
S.D. = 1.3 on 4 of 4 obs.						

? MAY 25, 1993 12h 43m 35.36± 4.83s
39.457 N ±34.8km 29.584 E ±20.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

DST	0.75	282	ePg	43	50.00	-0.2
			eSg	44	01.00	
YLV	1.12	352	iPn	43	56.10	-0.3
EYL	1.19	21	ePn	43	57.80	0.1
KCT	1.23	310	ePn	43	58.60	0.3
S.D. = 0.5 on 4 of 4 obs.						

% MAY 25, 1993 12h 50m 12.73± 0.80s
39.236 N ± 6.7km 27.733 E ± 7.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

DST	0.79	62	iPg	50	28.00	0.0
IZM	0.91	204	ePg	50	30.30	0.0
			eSg	50	45.30	
EDC	1.11	5	ePn	50	34.00	0.4
KCT	1.12	25	iPn	50	33.60	-0.1
BNT	1.13	7	ePn	50	33.70	-0.2
EZN	1.24	299	ePn	50	35.60	-0.1
S.D. = 0.3 on 6 of 6 obs.						

• MAY 25, 1993 13h 03m 05.78± 1.69s
5.565 S ±10.1km 149.837 E ±20.4km
DEPTH = 131.2 ± 23.9 km
4.6mb (8 obs.)
NEW BRITAIN REGION, P.N.G. (192)

RAB	2.69	60	iPd	03	49.00	0.0
	0.4s		341.72nm			
PMG	4.65	215	iPd	03	18.00	-57.1X
			eS	04	11.00	
CTA	14.85	193	iPc	06	35.00	4.6X
	1.0s		15.00nm		4.2mb	
WB2	20.76	225	iPc	07	37.60	-0.4
	0.3s		28.50nm		5.1mb	
			e	08	02.90	
			eS	11	20.90	
OLP	21.57	194	eP	07	46.70	0.7
BRS	21.89	173	iPc	07	49.00	-0.1
	1.0s		20.00nm		4.5mb	
ASPA	23.65	219	iPc	08	06.80	0.5
	0.6s		18.60nm		4.7mb	
			eS	12	11.30	
ARMA	24.78	176	eP	08	17.10	0.0
	0.4s		9.00nm		4.6mb	
STK	27.30	195	eP	08	39.20	-0.7
	0.9s		2.00nm		3.7mb	
WARB	30.19	225	eP	09	00.00	-5.9X
TOO	32.10	187	iPd	09	22.60	0.1
	0.8s		21.00nm		5.0mb	
MAT	43.28	346	eP	10	56.00	0.0
	0.8s		8.96nm		4.5mb	
S.D. = 0.5 on 9 of 12 obs.						

% MAY 25, 1993 13h 22m 35.59± 0.74s
44.389 N ± 5.8km 7.390 E ± 7.5km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.7 (GEN).

STV	0.15	198	P	22	39.23	0.0
			S	22	41.23	
ENR	0.16	172	P	22	39.28	-0.1
			S	22	41.86	

```
PZZ      0.24 299 P      22 40.88   0.1
                  S      22 44.54
ROB      0.36 105 P      22 43.08   0.1
BHB      0.46 349 P      22 44.83  -0.1
      S.D. = 0.2  on   5 of   5 obs.
-------------------------------------
*  MAY 25, 1993  15h 08m 10.38± 1.46s
   2.713 N ±10.5km  128.644 E ±23.6km
   DEPTH = 224.1 ± 16.3 km
   4.6mb (  6 obs.)
 HALMAHERA, INDONESIA              (267)

TNE      2.31 215 iP     08 54.40   0.3
                  iS     09 27.00
KNA     18.34 180 eP     12 10.70   0.0
WB2     23.20 166 iPd    12 58.60  -0.2
        0.2s     14.70nm          5.2mb
ASPA    26.72 169 iPd    13 30.80  -0 3
        0.7s     10.10nm          4.6mb
WARB    28.79 184 eP     13 44.00  -5.7X
CHTO    33.18 301 eP     14 27.90  -0.2
MAT     34 80  14 iPd    14 40.30  -1.3
        1.0s     10.00nm          4.4mb
STK     36.54 161 iPc    14 56.20   0.0
        0.2s      5.60nm          4.8mb
IMA     82.54  24 iPd    20 10.60   1.4
        0.8s      5.52nm          4.3mb
PMR     83.92  28 eP     20 16.44   0.4
        0 8s      8.32nm          4.6mb
      S.D. = 0.9  on   9 of  10 obs.
-------------------------------------
%  MAY 25, 1993  15h 09m 08.68± 1.75s
   44.628 N ± 5.7km    6.703 E ±14.3km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                            (538)
      ML 2.2 (GEN).

RRL      0.30  11 P      09 15.19   0.2
                  S      09 19.18
PZZ      0.31 113 P      09 15.70   0.5
                  S      09 19.86
BHB      0.45  62 P      09 17.34  -0.6
                  S      09 23.61
STV      0.59 131 P      09 20.76   0.1
                  S      09 28.74
ENR      0.65 128 P      09 22.01   0.2
                  S      09 31.12
RSP      0.66  37 P      09 22.15   0.3
                  S      09 30.39
LSD      0.89  21 P      09 25.67  -0.2
                  S      09 37.19
ROB      0.90 111 P      09 26.54   0.6
IMI      1.11 130 P      09 28.76  -0.9
FIN      1.16 111 P      09 29.84  -0.5
PCP      1.32  93 P      09 33.34   0.2
      S.D. = 0.5  on  11 of  11 obs.
-------------------------------------
?  MAY 25, 1993  15h 28m 23.00± 3.42s
   27.600 S ±19.2km   66.670 W ±41.7km
   DEPTH = 240.7 ± 45.8 km
 CATAMARCA PROVINCE, ARGENTINA     (130)

CYA      1.14 138 iPc    28 58.30   0.1
                  S      29 16.30
FSA      1.62  21 iP     29 01.60   0.0
                 (S)     29 38.50
SLA      3.05  21 ePc    29 28.30  12.3X
ZON      4.30 204 eP     29 30.10  -0.5
                  eS     30 14.10
RTBS     4.72 210 ePd    29 35.90   0.4
RFA      7.31 192 ePd    30 08.30   0.0
                  S      31 20.80
      S.D. = 0.6  on   5 of   6 obs.
-------------------------------------
   MAY 25, 1993  15h 36m 15.87± 0 23s
   40.451 N ± 2.7km   28.017 E ± 2.3km
   DEPTH =  14.3 ±  2.0 km
 TURKEY                            (366)
      ML 3 8 (ISK). Felt in the
      Bondirma areo.

BNT      0.12 218 iPg    36 19.60   0.2
EDC      0.16 228 iPg    36 20.00   0.0
KCT      0.33 128 iPg    36 22.30  -0.6
                 eSg     36 27.00
MFT      0.65 301 iPg    36 29.30   0.8
CTT      0.76  24 iPn    36 30.90   0.5
DST      0.97 151 iPn    36 34.60   0.7
ITU      1.00  49 ePg    36 35.00   0.6
                  iSg    36 49.00
ISK      1.00  52 iPn    36 34.50   0.1
YLV      1.04  83 iPn    36 35.30   0.1
GBZT     1.14  72 ePg    36 37.20   0.4
                  iSg    36 54.00
HRT      1.31  73 iPn    36 39.50  -0.2
DMK      1.38 352 iPn    36 41.80   1.2
EZN      1.44 245 iPn    36 41.70   0.3
ALN      1.56 287 ePn    36 46.00   2.8X
                  eSn    37 12.50
EYL      1.64  85 iPn    36 44.20  -0.2
GPA      1.76  95 ePn    36 45.60  -0.5
ALT      2.13 130 ePn    36 51.00  -0.6
IZM      2.13 196 ePn    36 51.40  -0.1
JMB      2.28 332 iP     36 54.00   0.4
KDZ      2.30 302 iP     36 54.00   0.1
KHL      2.42 151 ePn    36 55.70   0.0
DIM      2.46 311 iP     36 57.00   0.9
RZN      2.78 297 iP     37 01.00   0.1
CIN      2.85 179 eP     37 03.00   1.4
PLD      2.99 305 iP     37 03.00  -0.7
OUR      3.08 269 ePn    37 08.70   3.8X
                  eSn    37 53.00
PSN      3.23   2 iP     37 06.00  -1.0
PAIG     3.36 262 ePn    37 14.10   5.2X
PVL      3.41 325 iP     37 10.00   0.4
MMB      3.44 291 iP     37 09.00  -1.0
SOH      3.57 277 ePn    37 12.70   0.8
                  eSn    37 59.40
KNT      3.95 282 ePn    37 16.20  -1.1
                  eSn    38 06.10
KKB      3.98 292 iP     37 17.00  -0.8
VTS      4.20 302 iP     37 21.00   0.1
VAY      4.22 284 iPn    37 35.30  14.2X
GRG      4.30 279 ePn    37 21.90  -0.4
KAS      4.45  76 eP     37 40.00  15.5X
SKO      5.19 289 ePn    37 44.50   9.7X
                  i      37 57.00
      S.D. = 0.7  on  32 of  38 obs.
-------------------------------------
%  MAY 25, 1993  15h 45m 43.01± 0.64s
   44.367 N ± 5.8km    7 340 E ± 6.8km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                    (545)
      ML 1.9 (GEN).

STV      0.12 185 P      45 46.32   0.2
                  S      45 48.36
ENR      0.15 158 P      45 46.87   0.2
                  S      45 49.44
PZZ      0.22 309 P      45 47.88   0.0
                  S      45 50.90
ROB      0.39 101 P      45 51.52   0.5
                  S      45 57.03
BHB      0.48 353 P      45 52.65  -0.1
                  S      45 59.02
IMI      0.60 139 P      45 54.56  -0.7
                  S      46 02.75
FIN      0.64 104 P      45 55.71  -0.2
      S.D. = 0.5  on   7 of   7 obs.
-------------------------------------
&  MAY 25, 1993  16h 02m 51.71s
   60.001 N          152.650 W
   DEPTH = 101.2km
 SOUTHERN ALASKA                   (  2)
      <AEIC>.

ILIM     0.17 297 P      03 05.30   0.6
                  S      03 16.60
INE      0.22 286 P      03 05.80   0.9
                  S      03 16.60
INW      0.25 286 P      03 05.60   0.6
                  S      03 17.20
OPT      0.46 220 P      03 06.60  -1.0
                  S      03 17.70
RS1      0.46 353 P      03 07.60  -0.2
RDW      0.49 351 P      03 07.10  -0.9
                  S      03 18.70
NCT      0.58 346 eP     03 07.64  -0.9
RDT      0.59  12 eP     03 07.75  -0.9
DFR      0.59 358 ePc    03 07.92  -0.8
                  eS     03 20.08
XLV      0.72 139 eP     03 08.67  -1.0
                  eS     03 22.16
AUL      0.74 213 P      03 09.10  -0.7
AUE      0.74 210 P      03 08.80  -1.0
AUH      0.76 213 eP     03 09.20  -0.9
AUW      0.76 214 ePd    03 09.13  -0.9
AUI      0.78 211 eP     03 09.19  -1.0
                  eS     03 22 71
PDB      0.81 255 iPd    03 09.69  -0.8
CNPM     0.86 123 P      03 10.30  -0.8
                  S      03 24.50
BRLK     0.92 104 P      03 11.10  -0.6
                  S      03 25.80
NKA      1.02  43 P      03 13.80   1.1
CDD      1.19 206 P      03 13.30  -1.4
CKL      1.21   7 P      03 14.30  -0.7
SPU      1.22  14 iPd    03 14.49  -0.6
                  eS     03 31.79
BGL      1.27   6 eP     03 15.36  -0.4
CPAM     1.28  11 ePd    03 15.39  -0.5
                  eS     03 33.56
CRP      1.29  11 eP     03 15.75  -0.3
SLKM     1.31  66 P      03 14.80  -1.4
CGLM     1.35  13 iPd    03 16.24  -0.4
SYI      1.40 174 P      03 16.10  -1.1
SEW      1.61  85 P      03 18.50  -1.2
MPA      1.71  72 P      03 20.00  -1.1
SUA      1.74  32 ePd    03 21.35  -0.2
SVW      1.84 308 P      03 21.70  -1.1
PMS      1.97  49 P      03 24.20  -0.3
                  S      03 47.30
PTE      2.00  63 eP     03 23.55  -1.2
SKT      2.06  15 ePd    03 24.78  -0.9
PWA      2.14  38 P      03 26.20  -0.5
GHO      2.54  44 eP     03 31.05  -1.1
SML      2.78  47 eP     03 33.78  -1.5
HIN      3.10  80 ePc    03 37.03  -2.5
SCM      3.18  52 P      03 43.20   2.4
KLU      3.63  63 eP     03 44.41  -2.5
TRF      3.64  17 eP     03 46.79  -0.4
      42 obs. associated
-------------------------------------
?  MAY 25, 1993  16h 08m 59.75± 5.52s
   15.241 S ±50.5km  173.298 W ±73.0km
   DEPTH =  33.0km  (normal)
   4.8mb (  7 obs.)
 TONGA ISLANDS                     (173)

DZM     20.35 247 iPc    13 36.80   0.5
ARMA    35.51 239 eP     15 54.90  -0.9
        0.4s     6.00nm          4.9mb
CNB     38.92 232 iPc    16 24.40   0.0
QLP     41.67 247 eP     16 41.00  -1.1
TOO     42.64 231 iPc    16 55.90   1.0
        0.5s    24.00nm          5.2mb
STK     44.20 240 iPd    17 07.50  -0.1
        0.7s     5.70nm          4.5mb
WB2     49.96 257 eP     17 52.90  -0 1
        0.6s     5.70nm          4.8mb
WRA     49.97 257 P      17 54.00   0.9
        0.4s     2.30nm          4.6mb
ASPA    50.26 252 iPd    17 55.10  -0.1
        0.6s    46.90nm          5.7mb
WARB    56.80 249 eP     18 37.90  -5.7X
        0.6s     5.00nm          4.7mb
      S.D. = 0.8  on   9 of  10 obs.
-------------------------------------
?  MAY 25, 1993  17h 38m 52.91± 1.09s
   50.313 N ±18.7km   19.152 E ± 8.8km
   DEPTH =  10.0km  (geophysicist)
 POLAND                            (548)
      ML 2.9 (WAR).

OJC      0.43 102 iPgc   39 01.50  -0.1
                  iSg    39 09.20
SPC      1.33 147 iPn    39 17.70   0.1
                  iSn    39 37.20
KSP      1.90 287 iPg    39 25.90   0.3
                  iS     39 50.00
PRU      2.98 266 ePn    39 40.80  -0.3
                  Pg     39 45.50
                  e      40 08.30
                  eSg    40 24.00
BRG      3.36 282 iPg    39 56.90  10.4X
                  eSg    40 34.90
KHC      3.80 254 ePn    39 48.50  -4.4X
        0.8s     2.50nm
                  ePg    40 01.40
                  eSn    40 25.70
                  eSg    40 42.50
```

25d 17h

S.D. = 0.4 on 4 of 6 obs.

? MAY 25, 1993 17h 43m 15.22± 2.53s
30.704 S ±14.0km 71.146 W ±26.3km
DEPTH = 93.6 ± 16.0 km
NEAR COAST OF CENTRAL CHILE (135)

RTBS	1.74	124	iPc	43 44.50	-0.1
ZON	2.28	112	iPc	43 52.60	0.8
RTCV	2.51	118	iPc	43 54.60	-0.4
CYA	5.18	66	ePd	44 31.50	-0.3
FSA	6.45	46	eP	44 49.00	-0.3
SLA	7.78	41	e(P)	45 17.20	9.5X
CCH	14.02	20	eP	46 39.00	7.8X
CNCB	14.13	13	P	46 37.00	4.2X
LPB	14.38	12	(P)	46 37.00	1.1
ZOBO	14.63	12	P	46 37.90	-1.4
			LR	51 30.00	
SIV	17.30	34	P	47 13.40	1.1
PPD	19.74	69	eP	47 39.70	-0.3
VAO	22.86	76	eP	48 11.30	0.0
WRA	124.00	209	PKP	02 02.20	-2.4X
	0.8s		0.80nm		
GBA	146.45	113	PKP	03 04.00	18.0X
	0.6s		2.00nm		

S.D. = 0.9 on 10 of 15 obs.

? MAY 25, 1993 17h 59m 55.86± 1.33s
38.864 N ± 9.1km 26.950 E ±17.5km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
ML 3 0 (ISK).

IZM	0.53	152	iPg	00 06.50	0.0
			iSg	00 13.50	
EZN	1.08	333	iPn	00 16.20	0.1
CIN	1.55	144	eP	00 14.00	-9.5X
EDC	1.64	25	ePn	00 24.00	-0 8
KCT	1.76	38	iPn	00 27.30	0.7

S.D = 1.1 on 4 of 5 obs

• MAY 25, 1993 18h 38m 25.15± 0.91s
37.557 N ± 9.5km 45.961 E ±17.1km
DEPTH = 33.0km (normal)
4 1mb (2 obs.)
NORTHWESTERN IRAN (345)
Felt at Ardobil.

TAB	0.59	29	iPc	38 37.00	-0.1
KER	3.33	163	eP	39 16.00	-0.3
TEH	4.72	111	eP	39 10.00	-26.1X
OBN	18.67	343	eP	42 43.30	0.9
GEC2	25.89	306	eP	43 54.30	-1.4
	1.3s		3.17nm	3.8mb	
BCAO	41.42	224	iPd	46 11.10	0.9
	0.8s		7.00nm	4.4mb	

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

• MAY 25, 1993 19h 07m 35.79± 0.86s
17.905 N ± 9.8km 97.931 W ± 9.5km
DEPTH = 71.2 ± 8.1 km
3.9mb (2 obs.)
OAXACA, MEXICO (60)

PUE	1.16	347	(P)	08 00.00	3.1X
			(S)	08 14.00	
IIT	1.17	342	iP	07 56.39	-0.6
IISM	1.20	26	iP	07 56.00	-1.1
PPM	1.33	330	iP	07 59.11	-0.3
			(S)	08 19.71	
OXX	1.41	125	iP	08 00.96	0.7
			iS	08 17.52	
IIA	1.42	331	iP	07 59.82	-0.2
			iS	08 17.14	
III	1 53	288	iP	08 02.68	0.8
UNM	1.85	320	(P)	08 06.50	0.3
ACX	2.11	241	iP	08 09.04	-0.5
			iS	08 35.71	
MRX	3.57	301	(P)	08 37.79	7.9X
SCX	5.19	102	(P)	09 49.50	56.8X
AGX	5.70	315	(P)	09 22.00	22.2X
LTX	12.53	336	iPd	10 33.28	0.3
UYO	16.49	10	iPd	11 19.90	-4.1X
OLY	18.44	17	eP	11 50.39	2.3
ELC	20.77	20	eP	12 09.39	-3.7X
GOL	22.66	345	eP	12 32.03	-0.1
	1.0s		6.99nm	4.0mb	
SRU	23.80	335	eP	12 43 90	0.7
RSSD	26.64	350	eP	13 11.98	2.2
	0.4s		1.04nm	3.7mb	
LRM	30.34	340	eP	13 42.70	-0.4
			e	14 03.20	
LMN	39.11	37	eP	14 58.50	0.7
JAQ	39.74	21	ePd	15 00.30	-2.6
INK	55.14	345	eP	17 02.50	-0.3
MBC	59.41	354	eP	17 31.00	-1.8
LPF	81.38	42	eP	20 10.00	23.9X
	0.8s		8.35nm		
GRR	81.39	42	eP	20 09.40	23.2X
	1.1s		21.75nm		
FLN	81.52	42	eP	20 10.90	24.1X
	0.7s		8.80nm		
LDF	81.80	42	eP	20 11.50	23.2X
	1.0s		12.40nm		
TCF	84.04	43	eP	20 23.80	23.9X
	0.5s		1.40nm		
LOR	84.76	42	eP	20 27.60	24.1X
	0.6s		2.55nm		

S.D. = 1.3 on 18 of 30 obs.

MAY 25, 1993 21h 33m 31.18± 0.30s
44.368 N ± 1.8km 7.156 E ± 2.8km
DEPTH = 12.3 ± 3.3 km
NORTHERN ITALY (545)
ML 2.5 (LDG), 2.4 (GEN).

PZZ	0.14	344	Pd	33 34.70	-0.2
			S	33 37.32	
DOI	0.15	25	Pd	33 35.50	0.5
			eSg	33 37.00	
STV	0.17	135	Pc	33 35.11	-0.3
			S	33 37.74	
ENR	0.24	127	P	33 36.27	-0.2
			S	33 39.70	
TOUF	0.36	169	Pg	33 38.53	-0.3
AUTN	0.42	152	Pg	33 39.81	-0.1
			Sg	33 44.84	
BHB	0.48	9	P	33 40.57	-0.4
			S	33 47.03	
AURF	0.50	165	Pg	33 41.00	-0.3
			Sg	33 47.83	
ROB	0.52	98	P	33 41.90	0.2
			S	33 49.64	
SBF	0.54	158	Pg	33 41.85	-0.3
			Sg	33 49.32	
RRL	0.61	335	P	33 42.77	-0.7
			S	33 50.92	
CALN	0.64	197	Pg	33 43.84	-0.1
			Sg	33 52.62	
IMI	0.70	131	P	33 44.78	-0.1
			S	33 54.53	
FIN	0.77	101	P	33 46.20	0.1
			S	33 56.82	
RSP	0.79	5	P	33 45.65	-0.7
			S	33 56.00	
FRF	0.89	205	Pg	33 40.00	-8.0X
			Sg	33 59.40	
PCP	1.01	80	P	33 50.60	0 5
			S	34 03.92	
LRG	1.08	212	Pn	33 51.30	0 1
			Pg	33 52.30	
			Sg	34 06.50	
LSD	1.09	0	P	33 51.33	-0.3
			S	34 05.42	
LMR	1.13	205	Pn	33 52.40	0.2
			Pg	33 53.00	
			Sg	34 06.90	
LPG	1.17	346	Pg	33 53.30	0.4
			Sg	34 09.10	
LPL	1.19	345	Pg	33 53.70	0.4
			Sg	34 09.90	
CDR	1.22	236	e(Pg)	33 54.00	0.4
			e	34 09.30	
PGF	2.26	143	Pn	34 08.60	-0.4
			Sn	34 33.90	

S.D. = 0.4 on 23 of 24 obs.

• MAY 25, 1993 22h 54m 23.16± 1.22s
22.972 S ± 8.1km 70 642 W ±17.2km
DEPTH = 158.0 ± 26.2 km
NEAR COAST OF NORTHERN CHILE (122)

HJA	4.83	94	ePd	55 49.20	14.0X
MOCB	4.95	71	P	55 38.10	0.8
SLA	5.03	111	ePc	55 36.50	-1.5
ARE	6.53	353	eP	55 57.00	-1.2
			eS	57 11.00	
CNCB	6.62	23	P	56 01.00	1.3
LPB	6.84	21	P	56 05.00	2.4X
CCH	6.99	38	P	56 10.40	5.9X
ZOBO	7.08	20	P	56 06.00	0.1
			S	58 24.00	
RTRS	7 25	172	e(P)	56 07.00	-0.5
RTCV	9.05	169	e(P)	56 33.00	1.5
SIV	11.38	54	P	56 59.90	-2.4X
VAO	21 79	95	(P)	59 03.00	-0.3

S.D. = 1.5 on 8 of 12 obs.

& MAY 25, 1993 23h 01m 05.23s
63.269 N 149.758 W
DEPTH = 102.9km
CENTRAL ALASKA (1)
<AEIC>.

HUR	0.30	169	iPd	01 19.81	-0.6
			eS	01 30.63	
TRF	0.30	308	iPd	01 20.40	-0.2
			eS	01 32.08	
RND	0.43	71	iPd	01 20.89	-0.3
			eS	01 32.29	
MCK	0.59	38	iPd	01 22.09	-0.2
			eS	01 34.40	
NEA	1.35	13	ePd	01 29.59	-0.6
WRH	1.42	31	ePd	01 30.40	-0.6
			eS	01 49.94	
SKT	1.53	213	ePd	01 31.36	-1.1
			eS	01 51.70	
GHO	1.55	165	ePc	01 32.79	0.0
			eS	01 52.98	
SML	1.61	155	ePc	01 32.82	-0.6
			eS	01 54.79	
PWA	1 63	182	P	01 33.70	0.1
			S	01 58.70	
CCB	1.63	31	ePd	01 32.91	-0.7
HDA	1.69	46	ePd	01 33.81	-0.6
PLRM	1.71	170	ePc	01 35.31	0.7
PMR	1.71	170	eP	01 34.32	-0.3
THY	1.81	84	eP	01 37.07	1.0
MLY	1.82	347	ePd	01 35.59	-0.5
MDM	1.82	21	iPd	01 35.78	-0.4
SCM	1.83	141	ePc	01 35.54	-0.7
			eS	02 01.35	
FBA	1.85	27	eP	01 35.50	-1.0
SUA	1.87	195	eP	01 37.12	0.3
PAX	1.97	97	ePc	01 38.03	-0.1
GLM	2.01	30	ePd	01 38.06	-0.6
PMS	2.03	177	P	01 38.70	-0.2
SDG	2.07	109	ePc	01 39.00	-0.3
CGLM	2.23	209	ePd	01 40.80	-0.8
CRP	2.30	210	eP	01 42.27	-0.3
CPAM	2.31	210	eP	01 42.46	-0.1
			eS	02 10.97	
TZL	2.35	120	eP	01 43.03	0.0
SPU	2.35	208	eP	01 42.49	-0.7
BGL	2.36	213	eP	01 42.79	-0.5
CKL	2.41	211	eP	01 43.66	-0.2
PTE	2.44	172	eP	01 43.51	-0.7
KLU	2.52	133	ePc	01 43.98	-1.5
DOT	2.59	79	eP	01 45.60	-0.6
VLZ	2.68	142	eP	01 45.68	-1.7
SLKM	2.78	185	eP	01 48.45	-0.4
MPA	2.80	176	eP	01 48.08	-0.9
TTA	2.86	266	eP	01 47.97	-2.1
RDW	3.15	209	eP	01 54.12	0.1
SEW	3.18	177	eP	01 53.22	-1.0
HIN	3.27	150	eP	01 53.44	-2.1
IMA	3.28	331	eP	01 54.79	-0.9
GLB	3.32	121	eP	01 55.29	-1.0
CVA	3.33	143	eP	01 55.77	-0.4
SVW	3.50	234	P	01 57.70	-1.0
SGAM	3.51	140	eP	01 57.25	-1.6
CNPM	3.82	191	eP	02 02.47	-0.6
BALM	4.14	119	eP	02 05.58	-1.9
AUI	4.33	206	P	02 10.30	0.4

49 obs. associated

MAY 25, 1993 23h 16m 43.44± 0.10s
55.021 N ± 2.1km 160.513 W ± 1.6km
DEPTH = 36.8km (geophysicist)
6.2mb (150 obs.) 5.8Msz (45 obs.)
ALASKA PENINSULA (12)

Mw 6.2 (GS), 6.1 (HRV). ML 6.3 (PMR). Ms 5.7 (BRK).
Mo=1.5•10••18 Nm (PPT). Slight damage (VI) at Sand Point. Felt (V) at King Cove and Perryville; (IV) at Chignik, Chignik Lagoon, Cold Bay and False Pass; (III) at Akutan. Two events about 1.6 seconds apart. Depth from broadband displacement seismograms, based on first event.
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 70 Dip=70 Slip= 90
NP2: 250 20 90
Principal Axes:
T Plg=65 Azm=340
P 25 160
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
RADIATED ENERGY
No of sta: 32 Focal mech. M
Energy 1.3±0.2•10••13 Nm
MOMENT TENSOR SOLUTION
Dep 39 No. of sta: 45
Moment Tensor; Scale 10••18 Nm
Mrr= 1.11 Mtt=-1.47
Mff= 0.36 Mrt= 1.09
Mrf= 0.66 Mtf=-0.61
Principal axes:
T Val= 1.66 Plg=65 Azm=306
N 0.48 13 65
P -2.13 21 161
Best Double Couple:Mo=1.9•10••18
NP1.Strike=273 Dip=27 Slip= 120
NP2: 60 67 76
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 52S, ••C M.W.: 32S, 44C
Centroid Location:
Origin Time 23:16:48.1 0.1
Lat 54.70N 0.01 Lan 160.04W 0.01
Dep 48.9 BDY Half-duration 2.7
Moment Tensor; Scale 10••18 Nm
Mrr= 1.01 0.01 Mtt=-0.86 0.01
Mff=-0.15 0.01 Mrt= 0.86 0.02
Mrf= 0.58 0.02 Mtf=-0.54 0.01
Principal Axes:
T Val= 1.43 Plg=68 Azm=320
N 0.14 4 59
P -1.57 22 150
Best Double Couple:Mo=1.5•10••18
NP1:Strike=247 Dip=23 Slip= 99
NP2: 57 67 86

SDN	0.32	2	iP	16	55.11	3.4X
KDC	5.23	55	eP	17	59.89	-1.3
MCNL	5.36	36	eP	18	03.12	0.0
CDD	5.43	41	iP	18	05.10	1.1
SYI	5.73	48	iP	18	08.66	0.4
AUI	5.79	39	iP	18	11.45	2.3
AUW	5.80	38	eP	18	11.46	2.2
AUL	5.82	38	eP	18	11.59	2.0
AUE	5.83	39	eP	18	11.55	1.9
PDB	5.87	33	eP	18	11.62	1.3
OPT	6.09	37	eP	18	14.74	1.3
INW	6.43	35	eP	18	18.71	0.4
INE	6.45	35	eP	18	19.10	0.5
ILIM	6.50	36	eP	18	19.92	0.8
XLV	6.52	43	eP	18	21.01	1.6
SVW	6.63	21	eP	18	21.01	0.0
CNPM	6.76	44	eP	18	22.28	-0.5
RSO	6.85	34	eP	18	24.75	0.5
NCT	6.87	33	eP	18	25.73	1.3
DFR	6.97	34	eP	18	27.40	1.5
BRLK	7.04	44	eP	18	26.12	-0.7
CKL	7.55	32	eP	18	34.54	0.6
NKA	7.57	37	eP	18	37.17	3.1X
BGL	7.59	31	eP	18	35.42	1.0
SPU	7.63	32	eP	18	34.93	0.0
SLKM	7.78	41	eP	18	38.05	1.0
SEW	7.83	45	eP	18	36.06	-1.6
MPA	8.09	43	eP	18	40.75	-0.6
SUA	8.26	35	eP	18	42.85	-0.9

TTA	8.26	14	ePd	18	43.23	-0.6
SKT	8.41	30	eP	18	45.77	0.0
PTE	8.46	42	iP	18	45.22	-1.2
PMS	8.51	38	eP	18	45.30	-1.8
PWA	8.68	36	eP	18	48.10	-1.3
MID	8.86	54	eP	18	50.30	-1.6
PMR	8.89	38	eP	18	50.74	-1.7
KLU	10.04	44	eP	19	05.84	-2.5
ADK	10.14	259	eP	19	09.37	-0.2
BALM	11.34	51	eP	19	23.28	-2.7
IMA	11.57	14	eP	19	28.69	-0.5
COL	11.75	27	(P)	19	27.61	-3.8X
FBA	11.75	27	eP	19	27.60	-3.8X
YKU	12.10	60	e(P)	19	38.70	2.6
SIT	14.20	71	eP	20	00.81	-3.0X
	0.5s		42.05nm			5.3mb
SMY	15.12	272	(P)	20	16.89	1.1
	1.1s		529.46nm			5.7mb
ILT	15.47	334	iPc+	20	22.20	2.0
	1.4s		678.00nm			5.7mb
Z	74s		69.00um			4.7MszX
N	14s		20.00um			
E	14s		38.00um			
BRW	16.43	4	eP	20	32.71	0.3
INK	18.25	33	eP	20	53.00	-2.0
	0.5s		63.00nm			5.0mb X
PET	23.84	282	iPc+	21	53.00	-0.7
	1.2s		3400.00nm			6.7mb
Z	20s		8.50um			5.2Msz
			epP	22	09.00	69kmX
			e	22	38.00	
			eS	26	12.00	
			eSS	27	16.00	
MCW	23.90	90	eP	21	51.76	-2.6
GMW	24.51	92	eP	22	03.35	3.1X
LON	25.50	93	ePc	22	09.41	-0.3
SHW	25.56	94	eP	22	13.59	3.2X
COR	25.89	98	eP	22	17.63	4.4X
MGD	26.10	301	iPc+	22	15.00	-0.1
	0.9s		380.00nm			6.0mb
Z	17s		20.00um			5.7MszX
E	17s		16.00um			
			i	22	30.00	
			i	22	55.00	
			iPPP	23	12.00	
			eS	26	44.00	
			eSS	27	58.00	
MBC	26.16	21	ePc	22	15.00	-0.5
	1.0s		199.00nm			5.7mb
DPW	26.98	88	eP	22	23.97	0.6
NEW	27.40	86	eP	22	26.85	-0.3
	0.9s		261.67nm			5.9mb
Z	21s		47.84um			6.0Msz
ARC	27.84	105	ePd	22	30.84	-0.3
	1.2s		550.00nm			6.1mb
			epPd	22	42.89	47kmX
			ed	22	44.09	
			ed	23	18.89	
			iS	27	16.89	
			id	27	48.89	
FHC	27.94	105	(P)	22	31.10	-1.0
	1.0s		516.60nm			6.2mb
LBFM	28.74	102	eP	22	40.98	1.4
WDC	28.89	104	ePd	22	41.38	0.7
	1.4s		280.00nm			5.8mb
			e	22	48.99	
			epPd	22	52.43	41kmX
			ic	23	34.99	
			iS	27	32.99	
			isS	27	48.99	
			eLQ	28	57.99	
			eLR	30	00.99	
MIN	29.58	103	eP	22	47.06	0.1
	1.3s		430.00nm			6.0mb
			ipPd	22	57.91	40kmX
ORV	30.18	104	eP	22	52.51	0.4
NTYM	30.35	107	eP	22	53.17	-0.5
BKS	30.96	108	eP	22	53.09	-5.9X
	1.2s		350.00nm			6.0mb
			ipPc	23	07.09	56kmX
			ic	23	09.29	
			id	24	26.09	
			iS	28	03.09	
			isS	28	18.09	
			eLQ	30	06.09	
			eLR	30	31.09	
STAN	31 33	108	ePd	23	05.45	3.2X

	1.0s		660.00nm			6.4mb
LRM	31.40	87	eP	23	03.00	-0.2
MHC	31.67	108	ePd	23	08.64	3.2X
	1.6s		430.00nm			6.1mb
			ec	23	16.09	
ARN	31.72	108	eP	23	06.46	0.7
MCMT	31.75	89	eP	23	05.60	-0.6
			i	25	57.00	
CMB	31.86	105	ePd	23	07.62	0.6
	1.3s		310.00nm			6.0mb
			ipPd	23	18.68	41kmX
			ePPc	24	06.68	
			e	24	32.68	
			iS	28	19.68	
			isS	28	32.68	
			i	28	50.68	
			eLQ	30	11.68	
			eLR	31	26.68	
BGMT	31.98	87	eP	23	08.10	-0.1
SAO	32.19	108	e(P)d	23	15.15	5.3X
	1.2s		160.00nm			5.8mb
			ec	23	21.65	
KVN	32.43	102	(P)	23	13.03	0.9
MEMM	32.93	104	(P)	23	18.59	2.4
BONR	33.08	103	eP	23	19.33	1.4
			e	29	39.29	
TIK	33.29	327	iPc+	23	17.00	-2.0
	1.0s		380.00nm			6.2mb
Z	16s		22.00um			6.0MszX
			i	23	32.00	
			i	24	38.00	
			ePPP	24	54.00	
			i	25	59.00	
			eS	28	35.00	
OPA	33.33	176	(P)	23	19.66	-0.2
PKEM	33.44	108	(P)	23	20.42	-0.3
PHAM	33.45	108	(P)	23	21.24	0.4
TNP	33.60	102	eP	23	22.25	-0.1
	0.8s		84.76nm			5.7mb
			ePcP	26	01.22	
			e	26	14.66	
HVU	33.66	93	eP	23	23.61	0.8
			e	23	34.37	
			ePcP	26	01.29	
			e	26	15.04	
HON	33.70	176	P+	23	36.33	13.3X
Z	21s		18.78um			5.8Msz
			S	28	57.58	
DHH	33.76	175	eP	23	25.62	2.0
			e	26	13.53	
BCH	34.10	109	eP	23	27.32	0.7
			ePcP	26	03.71	
			e	26	17.50	
HKL	34.41	173	(P)	23	31.09	1.5
ISA	34.63	106	eP	23	31.42	0.3
			ipPd	23	43.01	43kmX
DUG	34.67	95	eP	23	33.23	1.8
	1.6s		843.63nm			6.4mb
Z	21s		12.83um			5.6Msz
			ipP	23	42.91	33kmX
			ePcP	26	04.92	
			e	26	17.55	
			eScP	29	44.70	
ABL	34.82	108	eP	23	33.11	0.2
			ePcP	26	05.44	
			e	26	18.43	
BW06	34.89	89	eP	23	32.72	-0.7
	1.6s		132.96nm			5.6mb
TPNV	34.95	103	eP	23	34.47	0.6
	1.1s		630.74nm			6.5mb
MHA	34.95	172	(P)	23	35.11	1.3
FCC	35.14	56	ePc	23	42.00	7.0X
DAU	35.42	94	eP	23	38.64	0.6
YAK	35.43	310	iPc+	23	36.40	-1.1
Z	18s		28.20um			6.1Msz
N	19s		9.10um			
E	20s		25.20um			
			epP	23	53.00	66kmX
			ePPP	25	23.00	
			i	26	05.00	
			iS	29	05.00	
			eSS	31	36.00	
			i	33	50.00	
KKM	35.47	173	(P)	23	40.88	2.7X
YSS	35.70	281	iPc+	23	39.50	-0.4
	0.6s		170.00nm			6.2mb
Z	22s		10.00um			5.5Msz

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	E	22s		8.20um				HIA		46.78	298	iPc	25	08.60	-2.1			1.0s		155.80nm			6.0mb
				epP	23	55.00	61kmX					ec	25	11 00						i	26	24.71	
				iPPP	25	20.00						isPd	25	24.25		HNME		55.24	58	eP	26	12.78	-2.0
				e	26	06.30						ed	25	25.57		MIM		55.38	59	eP	26	13.82	-2.0
				iS	29	13.00		FNO		46.93	88	iPc	25	12 80	0.7	KEV		55.41	357	ePc	26	14.28	-1.4
GSC		35.82	105	eP	23	44.79	3.5X	TSRJ		46.95	273	P	25	12.40	0.2			0.5s		614.70nm			6.9mb
ARUT		35.95	99	eP	23	43.23	0.9	LTX		47.67	99	ePc	25	15.61	-2.4					isPd	26	30.00	
USC		35.96	108	(P)	23	45.57	3.3X					ec	25	16.77						e	29	40.00	
				ipPd	23	54.76	31kmX					epPd	25	26.95	40kmX					e	33	53.00	
VTV		36.07	106	(P)	23	46.82	3.6X					ed	25	27.95						LR	47	20.00	
				epPd	23	56.01	31kmX	CIT		48.08	304	eP	25	20.00	-1.0	GPD		55.63	66	iPc	26	16.06	-1.7
RPV		36.10	109	(P)	23	44.06	0.6					e	32	18.00		TRO		55.65	0	eP	26	16.44	-1.0
				ipPd	23	54.82	38kmX	WKYJ		48.12	272	P	25	21.90	0.4	PNJ		55.87	66	iP	26	17.90	-1.5
SSK		36.14	107	(P)	23	44.71	0.7	CCM		48.49	80	iPc	25	22.43	-1.8	GMTN		55.88	66	iP	26	18.20	-1.2
MSU		36.17	97	eP	23	45.26	0.9					ec	25	24 08		CRNY		55.90	65	eP	26	17.32	-2.3
PEC		36.67	107	(P)	23	49.02	0.7					epPd	25	33.93	41kmX					i	26	30.22	
		1.0s		115.25nm			5.7mb					ed	25	35.01		PAL		55.93	66	iPc	26	18.48	-1.3
SRU		36.71	95	eP	23	49.72	0.9	YONJ		48.65	274	P	25	25.70	0.2					ePcP	27	15.80	
KUSJ		36.88	274	eP	23	47.30	-2.6	SLM		48.66	79	P+	25	23.11	-2.4	HRV		56.07	63	ePc	26	19.34	-1.5
RSSD		37.23	83	eP	23	52.93	-0.2		Z	19s		51.19um			6.5Msz					ec	26	20.67	
		1.1s		271.80nm			6.0mb					S	32	19.60						epPd	26	31.18	41kmX
	Z	21s		14.43um			5.7Msz	FVM		49.00	80	ePc	25	26.55	-1.6					ed	26	32.42	
				iPcP	26	11.72				1.3s		509.72nm			6.4mb	CBN		56.10	70	eP	26	19.60	-1.5
				e	26	24.44			Z	20s		23.69um			6.2Msz			1.2s		141.00nm			5.9mb
PLM		37.24	107	eP	23	54.1B	0.9					ePcP	26	51.14		GOGA		56.22	79	ePc	26	19.02	-3.0X
PFO		37.27	107	(P)	23	55.57	2.1	TKSJ		49.18	273	P	25	30.30	0.8			1.2s		224.02nm			6.1mb
				epPd	24	04.76	31kmX	EEO		49.34	64	eP	25	32.00	1.3					ec	26	20.43	
NEE		37.41	103	(P)	23	55.83	1.4	UYO		49.40	86	iPc	25	30.10	-1.2					epPd	26	30.11	38kmX
				epPd	24	07.25	41kmX	SHK		49.57	274	iPc	25	32.80	0.2					ed	26	31.52	
ASAJ		37.44	277	eP	23	54.20	-0.4			1.0s		400.00nm			6.4mb					e	27	31.29	
HOOJ		38.15	275	eP	23	59.60	-0.9	OLY		50 15	83	eP	25	34 32	-2.7	AKU		56.27	18	iPc	26	23.00	1.1
ULM		38.26	70	ePc	24	04.10	2.6X					ePcP	26	53.96				0.9s		194.96nm			6.1mb
GLA		38.59	106	eP	24	05.26	0.8					i	27	07.94		PRM		56.35	77	eP	26	20.54	-2.4
GOL		39.28	89	eP	24	11.92	1.5	ELC		50.17	80	eP	25	35.21	-1.9	JSC		56.82	76	eP	26	23.62	-2.7
		1.8s		718.40nm			6.1mb	ELF		50.47	69	P	25	38 50	-0.8	CEH		56.84	74	iPc	26	24.31	-2.1
	Z	19s		20.67um			6.0Msz	DLA		50.56	69	P	25	39.50	-0.5			1.0s		424.22nm			6.4mb
				epPd	24	22.93	39kmX	LDN		50.64	69	P	25	39.50	-1.2		Z	20s		6.59um			5.7Msz
				ePcP	26	16 90		SHNJ		50.76	275	P	25	41.60	0.0					ec	26	25.72	
				e	26	29.67		GRT		50.78	81	eP	25	40 76	-1.0					ipPd	26	35.65	39kmX
MRRJ		39.39	276	eP	24	10.10	-0.8					e	25	52 22						ed	26	36.97	
AOMJ		41.00	275	eP	24	24.80	0.6	ACTO		50.86	67	P	25	41.61	-0.7	REY		56.96	20	iPc	26	26.60	-0.3
OFUJ		41.24	272	eP	24	26.40	0.3	MZX		50.87	106	(P)	25	44 00	1.4	LMN		57.00	56	ePc	26	28.30	0.8
TUC		41.40	102	ePc	24	29.16	1.5	TYNO		51.31	68	P	25	44 76	-0.9	LOF		57.08	3	iPc	26	27.49	-0.2
				epPd	24	39.76	37kmX	WLVO		51.52	66	P	25	46.57	-0 7	SDF		57.77	357	iP	26	31.50	-1.0
ANMO		41.94	96	ePc	24	33.58	1.4	STCO		51.60	67	P	25	47 07	-0.9					i	26	49.00	
				epPd	24	43.27	33kmX	GAC		51.82	63	ePc	25	48.50	-1.0	SGS		58.04	77	eP	26	32.69	-2.2
ALQ		41.94	96	eP	24	32.80	0.6	KUMJ		52 08	274	P	25	51 60	-0.1	HBF		58.31	77	eP	26	35.02	-1.7
		1.7s		424.00nm			5.9mb	TLY		52 90	309	iPc	25	56 44	-1.2					e	26	47.74	
				iPcP	26	27.58						ec	25	58.34		PPM		58.53	102	(P)	26	42.00	3.0
				e	26	40.93						isPd	26	12.91		SSE		58.65	280	iPc	26	38.69	-0.4
YAMJ		42.79	272	eP	24	39.00	0.1	KAGJ		53.03	273	P	25	58.70	-0.1			1.0s		444.00nm			6.5mb
FRB		43.66	40	ePc	24	40.50	-5.1X	RSNY		53.10	63	ePd	25	58.02	-1.2		Z	24s		3.90um			5.4MszX
		0.7s		214.00nm			6.0mb			1.1s		177.74nm			6.0mb		N	20s		3.80um			
NIIJ		44.03	272	P	24	49.10	0.2		Z	19s		10.13um			5.9Msz		E	20s		1.20um			
KAKJ		44.07	270	P	24	49.30	0.0					e	26	09.98						ec	26	40.26	
BOD		44.27	310	iPc	24	49.10	-1.6	MCWV		53.72	71	eP	26	01.73	-2.0					isPd	26	55.24	
		0.8s		136.00nm			5.8mb			1.2s		757.18nm			6.6mb					S	34	34.00	
MDJ		44.47	287	iPc	24	50.63	-1.8		Z	18s		9.39um			5.9Msz					i	34	40.00	
				ec	24	52.46						e	26	14.18						sS	34	58.00	
				esPd	25	07.02						ePcP	27	08.84						eScS	36	42.00	
CHJJ		44.86	271	P	24	56.10	0.4	ZAK		53.97	308	iPc	26	04.60	-0.8	ELT		58.87	320	iPc	26	39.60	-0.8
MAJO		44.97	272	iPc	24	56.76	0.2			1.3s		140.00nm			5.8mb			1.3s		655.00nm			6.6mb
				ec	24	58.17			Z	19s		15.37um			6.1Msz					e	30	19.00	
				ec	24	59.0B			N	20s		10.15um				GUMO		59 00	248	ePc	26	38.04	-3.7X
				isPd	25	12.24						e	27	10.50				0.8s		229.80nm			6.4mb
				ed	25	13.07						e	28	15.00			Z	22s		1.28um			5.0Msz
MAT		44.97	272	iPc	24	56.80	0.2					ePPP	29	22.00						(pP)	26	49.05	37kmX
	Z	21s		9.68um			5.7Msz	MOY		54.07	311	eP	26	05 80	-0.3					eS	34	36.60	
				eS	31	29.00				1.0s		168.00nm			6.0mb	GUA		59.02	248	eP	26	38.00	-3.8X
MTMJ		45.17	272	P	24	58.30	0.0	CBM		54.63	57	ePc	26	08.30	-2.0			0.8s		149.25nm			6.2mb
IIDJ		45.88	271	P	25	04.60	0.7			1.2s		468.07nm			6.4mb	IISM		59.29	101	(P)	26	34.00	-9.7X
KBS		46.24	2	iPc	25	06.50	0.4		Z	20s		6.29um			5.7Msz	NSS		60.64	4	iPc	26	50.97	-1.4
				i	26	41.50						epPd	26	19.89	40kmX	OXX		61.19	102	(P)	26	58.00	1.1
DAG		46.26	11	iPd	25	05.40	-0.8					ed	26	21.21		MOL		62.38	6	iPc	26	59.21	-4.9X
		0.5s		721.83nm			6.9mb	MYNC		54.63	78	P	26	20 00	9.5X	KAF		63.09	356	iP	27	07.50	-1.3
	Z	21s		18.64um			6.0Msz		Z	20s		16.49um			6.1Msz	TATO		63.13	276	ePc	27	07.95	-1.6
	N	21s		14.34um				BNH		54.74	61	ePc	26	09.18	-2.0					ec	27	09.53	
NRI		46.35	333	iPc+	25	06.50	-0.5	NAV		54.87	74	eP	26	10.52	-1.8					esP	27	23.27	
		1.6s		315.00nm			6.0mb	BJI		54.88	291	eP	26	11 00	-1.2	FOO		63.17	8	iPc	27	08.04	-1.3
	Z	22s		31.00um			6.2Msz			1.5s		264.00nm			6.0mb	XAN		63.21	292	iPc	27	09.02	-1.0
	N	22s		11.00um					E	16s		5.44um								ec	27	10.60	
				i	25	22.00						esP	26	26.00						esP	27	23.59	
				i	26	41.00						ePP	28	15.00		SVE		63.62	336	iPc+	27	11.00	-1.4
				i	26	59.00						eS	33	46.00				1.8s		1100.00nm			6.7mb
				eS	31	46.00						e	36	16 00			Z	16s		9.50um			6.1MszX
JAO		46.43	55	ePc	25	06.50	-1.4					eSS	37	28.00			N	18s		6.50um			
OCO		46.69	88	iPc	25	02.70	-7.5X	BLA		55.15	73	iPc	26	12.66	-1.7		E	18s		1.50um			

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	Z	25s	4.00um			5.6MszX	FEL	77.02	8	P	28	33.62	-0.3	VAI	79.08	8	Pc	28	45.40	0.4
	N	23s	2.40um				VKA	77.05	2	iPc	28	33.80	-0.1	CTI	79.09	6	Pc	28	44.80	-0.4
	E	24s	1.60um					3.0s	895.00nm			6.3mb		LFF	79.15	13	iPc	28	46.00	0.6
			e	28	35.30				i	28	52.70				1.1s	484.50nm			6.4mb	
			i	28	40.70		HYF	77.10	12	iPc	28	34.70	0.5	LBL	79.18	12	P	28	46.13	0.4
			PP	31	05.40		ZST	77.14	2	iPc	28	34.80	0.5	VVI	79.19	5	P	28	45.59	-0.1
			S	37	59.10				i(SP)	28	52.40				1.0s	73.60nm			5.6mb	
			e	38	28.00		SLE	77.17	8	iPc	28	34.40	-0.2	VOY	79.21	4	iPc	28	45.30	-0.6
			i	38	57.40		KMR	77.20	4	iP+	28	35.00	0.3				e	29	03.50	
			P'P'	55	43.90					ipP	28	52.70	64kmX	LJU	79.22	4	ePc	28	45.90	0.1
GRF		75.43	6 iPc	28	25.40	0.6	LOR	77.23	11	iPc	28	35.00	0.1				e	29	04.00	
		1.1s	496.00nm			6.4mb		1.3s	350.90nm			6.2mb					eS	38	38.00	
	Z	22s	3.00um			5.6Msz	Z	20s	3.75um			5.7Msz		LPL	79.26	9	iPc	28	47.40	1.1
			e(pP)	28	39.40	49kmX	LRS	77.29	76	P	28	35.50	-0.1		0.9s	83.55nm			5.7mb	
			e(sP)	28	43.60		MGP	77.38	77	P	28	36.00	-0.1	ORO	79.26	8	P	28	46.50	0.3
LDF		75.45	13 iPc	28	24.70	-0.2	BBS	77.39	8	P	28	35.91	0.1	SSB	79.27	11	P	28	46.36	0.2
		0.9s	228.00nm			6.2mb	MFF	77.40	14	iPc	28	36.30	0.5	LPG	79.28	9	iPc	28	47.70	1.2
LVV		75.47	357 iP+	28	26.00	1.1		0.9s	488.75nm			6.5mb			1.1s	127.95nm			5.8mb	
			ipP	28	44.00	66kmX	SSF	77.40	11	iPc	28	36.00	0.2	PYA	79.31	343	iP	28	47.00	0.7
			eS	37	58.00			1.0s	287.20nm			6.3mb					i	29	01.00	
GRR		75.55	14 iPc	28	25.60	0.1	ZLA	77.44	8	iPc	28	36.20	0.1				e	31	50.00	
		0.7s	179.90nm			6.2mb	LOMF	77.44	9	P	28	36.44	0.3				iS	38	42.00	
LSA		75.80	302 iPc	28	28.47	0.7	BHG	77.48	5	iPc	28	36.60	0.3				iPPS	39	50.00	
			ec	28	29.80			1.0s	416 00nm			6.4mb		ANN	79.33	347	iPc	28	46.00	-0.4
			esPd	28	43.45		LBF	77.53	11	iPc	28	36.40	-0.2		0.9s	80.00nm			5.7mb	
LPF		75.88	14 iPc	28	27.50	0.2		1.0s	176.80nm			6.0mb			Z	20s	4.00um			5.8Msz
		0.9s	343.30nm			6.3mb	SRO	77.54	1	iPc	28	36.80	0.3		N	20s	9.00um			
LANF		75.91	8 P	28	27.75	0.2				ipP	28	53.50	60kmX		E	20s	6.00um			
HOFF		75.96	8 P	28	28.29	0.5	PORP	77.60	76	P	28	37.50	0.2				i	29	03.00	
SRBF		75.98	8 P	28	27.91	0.1	CLLP	77.61	76	P	28	37.50	0.2				eS	38	41.00	
WET		76.06	4 iPc	28	28.80	0.4	SOP	77.64	2	iPd	28	38.30	1.2	CAF	79.34	13	iPc	28	46.90	0.4
		1.3s	413.00nm			6.3mb	AVF	77.65	11	iPc	28	37.30	0.1		1.0s	127.60nm			5.9mb	
KHC		76.10	4 iPc	28	29.00	0.4		1.0s	223.20nm			6.1mb		LSD	79.35	9	Pc	28	47.97	1.1
		1.0s	250.00nm			6.2mb	MOTA	77.76	6	iPc	28	38.10	0.1	PTJ	79.41	3	iPc	28	46.90	0.0
	Z	24s	3.80um			5.6MszX		1.0s	364.00nm			6.4mb		KIV	79.44	343	iPc	28	47.69	0.5
	N	24s	2.80um							i	28	51.60					ec	28	48.84	
	E	24s	2.60um							isP	28	56.70					esPd	29	03.16	
			e	28	42.00		WATA	77 80	5	iPc	28	38.40	0.2	SAL	79.46	6	Pc	28	47.00	-0.1
			e	29	17.00					ipP	28	50.90	42kmX	LPO	79.46	13	iPc	28	47 40	0.3
			e	30	28.00					isP	28	56.50			1.1s	204.15nm			6.0mb	
			S	38	10.00		BGF	77.82	12	iPc	28	38.20	0.0	MAK	79.48	340	iPc	28	48.00	0.8
SPC		76 16	359 iPc	28	30.20	1.1		0.9s	148.75nm			6.0mb			1.0s	165.00nm			6.0mb	
			ipP	28	46.60	59kmX	SMF	77.85	11	iPc	28	38.40	0.1				eS	38	42.00	
STR		76.30	8 P	28	30.28	0.6		0.8s	149.35nm			6.1mb					ePS	39	10.00	
GEC2		76 39	4 ePc	28	30.30	0.0	WTTA	77.87	5	iPc	28	39.10	0.4	ZAG	79.49	2	iPc	28	47.60	0.4
		0.8s	154.18nm			6.1mb		0.9s	384.00nm			6.4mb		GRO	79.50	341	iPc+	28	48.50	1.2
			e	28	36.80					i	28	52.90			2.0s	1200.00nm			6.5mb	
			e	28	44.40					i	28	56.20			Z	26s	11.20um			6.1MszX
			e	28	48.00		SOTA	77.89	6	iPc	28	39.10	0 4		N	26s	27.20um			
			ePkKP	47	38.90			1.0s	530.00nm			6.5mb			E	22s	4.20um			
			epPKKP	47	52.40					ipP	28	50.40	37kmX				iPPP	33	42.00	
			e	55	28.90					isP	28	57.00					eS	38	48.00	
			e	55	32.80		LSF	77.97	13	iPc	28	39.10	0.1	CEY	79.52	4	iPc	28	47.40	-0.1
			e	55	35.00			0.9s	377.40nm			6.4mb		TRI	79.53	4	e(P)c	28	46.70	-0.7
			e	55	40.00		CPD	78.01	76	P	28	40.10	0.5				e	29	04.00	
			eP'P'	55	45.00		TCF	78.01	12	iPc	28	39.30	0.1				e	30	56.00	
			e	55	48.70			0.9s	111.40nm			5.9mb					e(S)	38	36.00	
			e	55	53.50		KIS	78.03	353 iP		28	38.00	-1.2				e	39	12.00	
			epRPKP	55	57.60					i	28	54.00					e(SS)	44	00.00	
			e	56	01.40					ePPP	33	30.00					e(SSS)	47	16.00	
			e	56	05.50					eS	38	26.00					e	48	52.00	
			e	59	06.70					e	38	42.00		STS	79.59	21	iPc	28	48.33	0.5
CDF		76.43	8 P	28	30.62	0.1				ePS	39	08.00		SIM	79.63	349	eP	28	48.00	0.0
WLS		76.44	8 P	28	30.66	0.1				eSS	43	30.00			Z	24s	8.60um			6.0MszX
VITF		76.51	9 P	28	31.11	0.2	MAF	78.12	12	iPc	28	40.10	0.3				pP	29	04.00	57kmX
ECH		76.61	8 P	28	31.53	0.0		0.9s	90.10nm			5.8mb					e	31	48.00	
UZH		76.69	358 iPc+	28	32.00	0.2	KBA	78.14	4	iPc	28	40.80	0 7				eS	38	43.00	
		1.2s	435.00nm			6.3mb		1.0s	491.00nm			6.5mb					e	39	10.00	
	Z	22s	1.80um			5.3Msz				ipP	28	52.70	40kmX				ePS	39	56.00	
	N	22s	3.00um							isP	28	58.10		RSP	79.66	9	Pc	28	49.21	0.8
	E	22s	4.50um				AGO	78.35	12	P	28	41 63	0.5	VBY	79.79	3	iPc	28	49.00	0.2
			i	28	40.70		OSS	78.36	7	iPc	28	42.00	0.7	RRL	79.85	9	Pc	28	51.17	1.6
			i	28	44.00		PLDF	78.49	11	P	28	42.53	0.6	RIY	79.92	4	iPc	28	49.50	0.0
			ipP	28	49.80	65kmX	VDL	78.51	7	ePd	28	43.20	1.0	BHB	79.97	9	Pc	28	49.89	0.0
			eS	38	32.00		FVI	78.60	5	Pc	28	42.30	-0.1	KKN	80.22	305	Pc	28	51.60	-0.1
			isS	39	00.00		PYM	78.64	12	P	28	42.71	0.0	BOB	80.22	7	Pc	28	52.20	0.9
			iSP	39	18.00		EMS	78.72	9	iPc	28	44.00	0 6	LOE	80.28	286	iPc	28	51.20	-0.7
LIBD		76 72	8 P	28	32.17	0.2	DIX	78.76	9	iPc	28	44.40	0.8	PZZ	80.29	9	Pc	28	52.00	0.2
HAU		76.75	9 iPc	28	32.30	0.0	UZD	78.76	1	iPd	28	43.90	0.6	DOI	80.31	9	P	28	51.10	-0.7
		0.9s	244.40nm			6.2mb	RBL	78.79	4	Pc	28	43.30	-0.2	ERUA	80.34	20	iPc	28	53.09	1.2
	Z	23s	3.60um			5.6MszX	MMK	78.83	8	iPc	28	45.10	1.1	PCP	80.38	8	Pc	28	52.09	0.0
FUR		76.96	6 iPc	28	33.70	0.3	TMA	78.85	8	iPc	28	44.10	0.1	CKI	80.47	8	Pc	28	52.40	-0.1
		1.0s	371.00nm			6.4mb	RJF	78.89	13	iPc	28	44.10	0.0	ROB	80.57	8	Pc	28	52.96	-0.2
	Z	19s	3.00um			5.6Msz		1.3s	261.40nm			6.1mb		STV	80.57	9	Pc	28	52.55	-0.6
			i	28	52.20		Z	20s	5.97um			5.9Msz		ENR	80.60	9	Pc	28	52.64	-0.7
BSF		76.96	9 P	28	33.53	0.0	COLF	78.95	11	P	28	44.75	0.4	NEV	80.60	74	eP	28	53.32	-0.3
MOF		76.97	9 P	28	33.57	0.0	RSL	79.08	9	P	28	45.84	0 6	CPB	80.60	73	eP	28	53.28	-0.3

CHTO	80.66	289	iPc	28	53.69	-0.2	NST	82.57	287	iPc	29	04.00	0.1	BNT	84.72	354	iP	29	14.40	-0.1
	0 8s	109.81nm			5.9mb		GUD	82.59	18	iPc	29	04.52	0.7	SGO	84.73	3	Pc	29	14.70	0.2
			esP	29	08.09		JMB	82.70	355	iPc	29	09.00	4.8X	EDC	84.73	354	iP	29	15.00	0.4
			eS	38	54.90		VTS	82.71	357	iPc	29	04.00	-0.5	KCT	84.80	353	iP	29	15.00	0.1
FIN	80.68	8	Pc	28	53.14	-0.6	PGB	82.72	357	iPc	29	04.00	-0.4	EVIA	84.83	17	iPc	29	15.83	0.6
MADF	80.69	15	P	28	53.59	-0.2	SDV	82.72	85	eP	29	04.40	-0.6	VLO	84.88	360	iPc	29	16.10	0.8
BOH	80.70	15	P	28	54.33	0.4	PVY	82.76	360	iPc	29	04.70	0.0	OUR	84.94	357	eP	29	15.66	0.1
OGE	80.72	15	P	28	53.76	-0.1	ETOR	82.77	16	iPc	29	05.29	0.6	LCI	85.01	1	Pc	29	16.60	0.7
ATE	80.77	15	P	28	53.89	-0.3	MAIO	82.79	328	iPc	29	06.00	1.1	KZN	85.02	358	iPc	29	16.10	0.0
BORS	80.77	7	Pc	28	53.94	-0.2		0.9s	125.75nm			6.0mb		TPE	85.06	360	iPc	29	19.50	3.3X
TOUF	80.79	9	P	28	55.13	0.6				eS	38	44.00		EVAL	85.06	21	iPd	29	16.75	0.5
ISSF	80.81	15	P	28	55.58	1.1	EPLA	82.79	20	iPc	29	05.92	1.1	EBAN	85.06	18	iPc	29	17.10	0.8
AUTN	80.83	9	P	28	55.26	0.5	MNS	82.80	5	Pc	29	04.70	-0.1	PSO	85.11	95	eP	29	18.50	1.2
JAU	80.86	15	P	28	54.04	-0.8	AOU	82.86	5	P	29	05.80	0.7	EHOR	85.12	19	iPc	29	16.96	0.4
SARO	80.87	7	Pc	28	55.19	0.4	HCY	82.90	1	iPc	29	05.00	-0.2	MGR	85.15	3	Pc	29	16.70	0.0
AURF	80.93	9	P	28	55.55	0.5	TTG	82.92	0	iPc	29	05.40	0.1	LIT	85.22	358	eP	29	16.86	-0.1
LHE	80.95	15	P	28	56.12	0.9	BDV	83.07	0	iPc	29	06.00	-0.1	ACU	85.29	16	eP	29	18.19	0.8
IMI	80.95	8	Pc	28	55.11	-0.1	GRS	83.09	339	iPc	29	07.20	0.7	NNT	85.31	285	iPc	29	17.40	-0.3
SBF	80.96	9	P	28	55.70	0.5		1.2s	500.00nm			6.5mb		EZN	85.34	355	iP	29	17.40	-0.2
EPF	80.97	14	iPc	28	55.10	-0.2	Z	26s	12.00um			6.2MszX		PAIG	85.36	357	eP	29	17.14	-0.5
	0.9s	69.45nm			5.6mb		N	25s	9.04um					DST	85.42	353	iP	29	18.40	0.3
CDR	80.99	10	iPc	28	56.10	0.8	E	25s	5.09um					SRN	85.47	360	iPc	29	19.30	1.1
BDI	81.00	6	Pc	28	55.20	-0.2				e	32	16.00		CSI	85.53	2	P	29	19.00	0.4
KAT	81.01	332	iP+	28	57.50	2.1				ePPP	34	16.00		TEH	85.55	334	iPc	29	21.00	2.1
CALN	81.02	9	P	28	55.85	0.2				eS	39	20.00		ELUO	85.56	19	iPc	29	19.55	0.7
BPA	81.07	73	eP	28	55.00	-1.1	EROO	83.15	14	eP	29	07.31	0.8	EHUE	85.61	17	eP	29	19.84	0.7
REVF	81.07	9	P	28	56.17	0.4	PLD	83.15	356	iPc	29	06.00	-0.5	KEK	85.64	360	eP	29	20.00	0.9
LESF	81.10	13	P	28	56.54	0.6	DMK	83.27	354	iP	29	07.80	0.6	TDS	85.65	2	Pc	29	19.80	0.6
MGH	81.13	74	eP	28	55.50	-0.9	FDF	83.34	74	iPc	29	07.26	-0.7	ROI	85.75	2	P	29	20.20	0.5
SFI	81.22	6	Pc	28	57.90	1.5	SKO	83.37	359	iPc	29	08.40	0.8	IGT	85.82	359	eP	29	36.30	16.3X
KKM	81.22	268	ePc	28	57.00	0.0		1.0s	838.00nm			6.8mb		ALT	85.85	352	iP	29	20.50	0.2
RSM	81.24	5	Pc	28	57.90	1.4	Z	25s	5.94um			5.9MszX		QUE	85.88	320	iPc+	29	21.00	0.3
PGD	81.26	6	P	28	58.33	1.4				LR	03	40.00			1.3s	418.27nm			6.5mb	
	1.2s	676.20nm			6.5mb					i	29	21.80					eS	40	07.70	
MTA	81 26	341	iPc+	28	57.20	0.5				i	29	26.00		PRK	85.92	355	eP	29	20.80	0.3
	0.8s	1100.00nm			6.9mb					i	30	34.50		GIBL	85.95	20	eP	29	22.00	1.3
Z	22s	1.50um			5.3Msz					i	31	55.00		EPRU	85.96	20	iPc	29	21.40	0.6
N	22s	3.00um								iS	39	23.00		ACI	85.96	3	P	29	21.90	1.2
E	22s	2.50um					RMP	83.37	5	P	29	08.20	0.5	ECOG	85.96	18	iPd	29	21.34	0.4
			e	32	03.00		ULC	83.39	0	iPc	29	07.80	0.0	LIJA	85.99	20	iP	29	21.50	0.5
			eS	39	04.00		RDP	83.42	5	Pc	29	08.20	0.2	CZI	86.09	3	P	29	20.30	-1.0
			ePS	40	02.00		KKB	83.44	357	iPc	29	08.00	0.0	ALJ	86.17	20	eP	29	23.50	1.6
			ePPS	40	12.00		LIS	83.46	22	iPc	29	09.50	1.3	AGG	86.30	358	eP	29	21.74	-0.7
			eSS	44	15.00		BIM	83.56	74	eP	29	08.80	-0.2	MAL	86.34	19	iPc	29	23.50	0.9
GRBF	81.32	13	P	28	57.45	0.3	KDZ	83.57	356	iPc	29	09.00	0.3				iPP	33	02.00	
FIR	81.33	6	iPc	28	58.00	1.0	DUI	83.60	4	Pc	29	09.70	0.8				iS	39	58.00	
			iS	39	04.00		PAB	83.62	18	iPc	29	09.75	0.7	CNIL	86.37	20	iP	29	25.00	2.2
PII	81.34	7	Pc	28	56.70	-0.3				ec	29	11.41		EGUA	86.40	18	iPc	29	22.99	0.1
PSN	81.39	354	iPc	28	58.00	0.6				esP	29	24.65		EJIF	86.41	20	iPc	29	23.93	1.0
BAR	81.48	337	iPc	29	00.00	2.2	MVM	83.63	74	eP	29	09.33	0.0	GRI	86.50	2	P	29	23.47	0.1
			eS	39	10.00		PHP	83.66	359	iP	29	09.30	0.1		0.7s	443.90nm			6.8mb	
SHE	81.52	338	iPc+	28	58.00	0.0	MMB	83.70	357	iPc	29	08.00	-1.4	KHL	86.63	352	iP	29	24.30	0.2
	0.8s	850.00nm			6.8mb		LACI	83.72	360	iPc	29	09.50	0.1	PLAT	86.67	20	iP	29	26.00	1.7
Z	20s	4.50um			5.8Msz		ITU	83.90	353	iPc	29	11.00	0.7	IZM	86.71	354	iP	29	24.60	0.1
N	20s	5.00um					CTT	83.90	353	iP	29	10.30	-0.1	GAZ	86.92	346	iP	29	24.90	-0.5
E	18s	6.00um					RFI	83.94	4	P	29	11.18	0.7	ATN	87.12	3	P	29	24.60	-1.8
			i	32	08.00			1.4s	602.90nm			6.5mb		ERC	87.12	5	P	29	27.20	0.7
			iS	39	10.00		ISK	83.94	353	iP	29	10.30	-0.2	GMB	87.13	3	P	29	25.31	-1.3
			iPS	40	22.00		VAY	84.00	358	iP	29	11.60	0.8		1.3s	153.90nm			6.1mb	
CRE	81.52	6	Pc	28	58.70	0.5				i	29	23.40		VLS	87.17	359	eP	29	27.00	0.4
ASH	81.60	330	iPc	29	00.00	1.5				i	29	41.20		SOI	87.23	3	Pc	29	25.90	-1.0
	1.5s	1700.00nm			6.8mb		TIR	84.00	360	iPc	29	11.20	0.3	GIB	87.24	4	P	29	26.90	-0.2
			e	29	07.00		RDO	84.07	355	iPc	29	12.20	1.0	ADAT	87.28	347	eP	29	28.60	1.4
			e	32	11.00		HRT	84.13	352	iP	29	11.30	-0.3	ATH	87.30	357	eP	29	27.20	-0.1
			e	33	54.00		SLB	84.14	74	eP	29	12.02	0.0				eS	40	02.00	
			eS	39	11.00		KHT	84.14	287	iPc	29	12.20	0.3	MNO	87.33	4	P	29	27.95	0.3
			e	39	51.00		ECHE	84.15	16	iPc	29	12.56	0.9		1.0s	128.20nm			6.1mb	
			PS	40	16.00		KNT	84.15	357	eP	29	07.30	-4.3X	BCK	87.39	351	iP	29	27.30	-0.5
			e	47	55.00		GBZT	84.18	352	iPc	29	12.00	0.2	CTA	87.43	229	iPc+	29	27.50	-0.5
TSM	81.69	266	ePd	28	59.70	0.4	BOG	84.20	90	eP	29	14.00	1.3		1.0s	60.00nm			5.8mb	
EGRA	81.70	15	iPd	28	59.92	1.0				iS	39	32.00		Z	18s	6.19um			6.1Msz	
ARV	81.70	5	Pc	28	59.70	0.7	OHR	84.23	359	iPc	29	12.50	0.4				ipP	29	37.00	30kmX
DZM	81.82	211	iPc	29	00.60	0.8		1.3s	1040.00nm			6.8mb					isP	29	41.00	
BDT	81.91	288	eP	28	52.80	-7.6X				i	29	23.50					eS	39	57.00	
PAG	81.99	74	eP	29	00.60	-0.3				i	29	30.30					e	45	57.00	
PVL	82.01	356	iPc	29	00.00	-0.6	ALN	84.29	355	eP	29	12.62	0.3				e	52	30.00	
ETER	82.02	12	iPc	29	01.32	0.7	EYL	84.35	352	eP	29	11.50	-1.3	CTAO	87.43	229	(P)	29	28.26	0.3
PLE	82.02	0	iPc	29	02.00	1.2	GRG	84.36	358	eP	29	13.50	0.8				epPc	29	39.10	34kmX
DEG	82.10	73	eP	29	00.00	-1.5	YLV	84.41	352	iP	29	13.30	0.3	CIN	87.45	353	iPc	29	28.00	0.0
ASS	82.11	5	Pc	29	01.60	0.4	BRT	84.45	2	P	29	13.67	0.5	CVT	87.49	5	P	29	28.70	0.5
HVAR	82.14	2	iPc	29	00.90	-0.4		1.3s	622.00nm			6.6mb			1.3s	497.60nm			6.6mb	
MGG	82.28	73	eP	29	01.00	-1.4	TAB	84.47	339	iPc+	29	14.80	1.3	KER	87.88	337	iPc	29	30.10	-0.2
PGF	82.39	8	P	29	03.45	0.7				i	29	32.00		FAI	87.94	5	P	29	32.00	1.7
BRY	82.45	1	iPc	29	03.00	-0.1	ESEL	84.52	13	iPc	29	14.37	0.9	ELL	88.16	352	iP	29	31.50	-0.1
TOV	82.48	84	iPc	29	03.90	0.4	FNA	84.55	359	eP	29	13.78	0.0	MEU	88.16	4	P	29	31.35	-0.2
IVA	82.48	360	iPc	29	03.50	0.3	GPA	84.61	352	eP	29	13.70	-0.3		0.8s	36.80nm			5.7mb	
NKY	82.54	0	iPc	29	03.40	-0.1	THE	84.67	357	eP	29	09.00	-5.2X	PZI	88.23	4	P	29	31.37	-0.5

25d 23h

	1.1s	103.70nm		6.0mb	
MKS	88.54	259	iPc	29 33.50	0.1
KSL	88.81	352	eP	29 34.70	0.2
AVE	89.05	22	iPc	29 36.00	0.3
			i	29 49.00	
IFR	89.32	20	iPc	29 38.00	0.7
			i	29 48.00	
FAM	89.48	348	eP	29 37.80	0.1
CSS	89.59	349	eP	29 38.00	-0.3
PPCY	89.78	349	eP	29 38.70	-0.4
VAM	89.85	356	eP	29 39.30	-0.1
NPS	89.93	355	iPd	29 38.80	-1.1
BHL	90.35	347	P	29 40.00	-1.9
			SKS	40 04.00	
T8T	90.67	32	(P)	29 44.17	0.8
			ec	29 45.66	
HRI	90.96	346	iPc	29 50.20	5.4X
IPM	91.13	280	ePc	29 46.00	0.4
	0.7s	133.70nm		6.4mb	
BRS	91.32	220	e(P)	29 40.00	-6.1X
TIO	91.37	23	iPc	29 47.30	0.6
CHIE	91.54	33	eP	29 49.00	1.6
GGC	91.88	31	eP	29 57.00	8.0X
ZNT	92.07	347	iPc	29 54.90	5.1X
SALJ	92.21	346	P	29 50.50	0.0
HYB	92.26	305	iPc	29 50.00	-0.9
	1.0s	330.00nm		6.7mb	
			e	30 02.50	
			eSKS	40 39.50	
			e	41 09.50	
WB2	92.83	239	iPKPd	29 52.90	-0.3
	0.9s	34.10nm		5.8mb	
			e	30 04.60	
WRA	92.84	239	P	29 53.00	-0.2
	1.1s	21.40nm		5.5mb	
POO	93.44	309	iPc	29 55.80	-0.5
	0.8s	76.12nm		6.2mb	
SHWJ	93 84	346	P	29 57.20	-1.0
OLP	94.01	228	eP	29 59.50	1.0
ARMA	94.48	220	iPd	30 02.00	1.3
	1.1s	152.00nm		6.3mb	
			ipP	30 15.40	45kmX
MBH	94.52	347	iPc	30 05.80	4.6X
DHR	94.84	333	eP	30 02.00	-0.6
GBA	96.09	304	P	30 07.60	-0.8
	0.7s	32.00nm		5.9mb	
NNA	96.12	102	eP	30 07.50	-1.0
	0.8s	14.18nm		5.5mb	
ASPA	96.20	237	iPc	30 08.10	-0.6
	1.0s	23.70nm		5.6mb	
			i	30 21.70	
			ePP	33 38.50	
			eS	41 03.80	
MJMA	96.46	337	eP	30 09.33	-0.8
OASM	96.62	338	eP	30 10.67	-0.2
UOSK	97 16	339	iPc	30 14.00	0.7
RYD	97.25	335	eP	30 13.50	-0.1
AFIF	98.62	338	iP	30 22.33	2.4
STK	99.75	227	eP	30 25.00	0.6
	0.9s	3.60nm		4.9mb X	
			e	34 44.40	
ZOBO	104.52	98	Pdiff	30 43.80	-3.0X
			LR	08 20.00	
LPB	104.74	98	Pdiff	30 46.00	-1.6X
	Z 18s	2.06um		5.7Msz	
			LR	08 28.00	
CNCB	105.03	98	Pdiff	30 52.00	2.9X
CCH	106.54	97	Pdiff	30 56.20	0.7
MOCB	109.89	99	Pdiff	31 10.10	-0.4
TIC	115.25	27	PKP	35 21.60	-1.0
KIC	115.59	27	PKP	35 20.80	-2.5X
LIC	115.65	27	PKP	35 20.60	-2.8X
PPD	118.73	88	ePKP	35 27.80	-1.2
BCAO	120.75	1	iPKPc	35 32.10	-1.0
	0.7s	39.00nm			
			id	35 46.00	
			ic	36 59.00	
			ic	37 12.10	
VAO	121.98	85	(PKP)	35 34.00	-1.2
NAI	124.59	339	iPKPc	35 44.00	3.3X
	1.0s	140.00nm			
LSZ	139.77	347	ePKP	36 06.40	-2.9X
			i	39 02.40	
			i	39 41.00	
			i	40 06.00	
MTD	140.71	342	iPKPc	35 57.30	-13.6X
			i	36 03.20	

			iPP	39 01.20	
CIR	144 84	340	iPKPc	36 17.50	-0.4
SPA	144.84	180	iPKPc	36 14.70	-1.9X
	1.2s	809.86nm			
WIN	147.54	4	iPKPc	36 22.00	-0.5
	1.0s	900.00nm			
PAF	148.97	259	e(PKP)	36 29.10	5.4X
			e(PP)	40 07.00	
			e(SPP)	52 50.00	
BFT	149.68	341	ePKP	36 25.60	-0.2
	1.2s	380.00nm			
SLR	150.04	344	iPKPc	36 25.00	-1.2
	0.7s	1280.00nm			
	Z 22s	11.20um		6.6Msz	
KSR	150.37	346	iPKPc	36 25.50	-1.3
	1.2s	750.00nm			
			i	36 30.50	
PRY	151.33	345	iPKPc	36 26.00	-2.2X
	1.5s	450.00nm			
			i	36 33.00	
BFS	151.40	346	ePKP	36 27.20	-1.1
	0.8s	266.00nm			
SEK	152.68	344	iPKPd	36 31.00	0.9
			i	36 38.00	
BLF	153.66	347	iPKPc	36 30.80	-0.6
	0.7s	144.00nm			
			i	36 39.10	
POF	154.38	359	iPKPd	36 33.00	0.8
	0.9s	248.00nm			
			i	36 41 50	
FRS	154 40	348	iPKPc	36 31.50	-0.7
	1 0s	30.00nm			
			i	36 40.10	
MAW	156.28	221	e(PKP)	36 33.50	0.0
	1.1s	173.91nm			
SUR	157.35	357	iPKPc	36 34.10	-2.2X
	0.8s	22.39nm			
	Z 20s	6.03um		6.4Msz	
SUR	157.35	357	iPKPc	36 43.41	7.1X
	0.8s	46.00nm			
	Z 20s	22.60um		7.0MszX	
GRM	157.73	344	ePKP	36 37 50	1.0
	1.0s	200.00nm			
			i	36 49.50	
CER	158.34	0	ePKP	36 48.00	10.8X
	1.0s	280.00nm			
			i	37 11.50	
SNA	161.87	156	e(PKP)	36 38.30	-1.4
	1.0s	300.00nm			
NVL	163.84	171	ePKP	36 39.00	-2.6X
	2.0s	124.00nm			
			i	36 54.00	
			i	37 47.00	
			i	41 33.00	
			e	47 58.00	
			e	48 52.00	
			e	51 59.00	

S.D. = 0.9 on 606 of 669 obs.

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* MAY 26, 1993 00h 27m 06.06± 2.82s
30.442 S ±11.9km 72.002 W ±22.0km
DEPTH = 52.9 ± 21.8 km
5.1mb (3 obs.) 5.4Msz (1 obs.)
OFF COAST OF CENTRAL CHILE (134)

RTRS	2.22	84	iPd	27 43.00	2.0
ZON	3.06	112	iPc	27 54.60	1.5
RTLL	3.16	107	iPd	27 55.00	0.4
RTCV	3.29	116	ePc	27 57.20	0.8
CFA	3.43	111	iPd	27 59.00	0.6
RTPR	4.75	90	ePc	28 16.30	-0.5
MRA	5.73	112	e(P)	28 29.00	-1.6
CYA	5.77	71	ePc	28 30.40	-0.8
			(S)	29 45.20	
TCA	6 43	100	ePc	28 38.30	-2.3
FSA	6.84	52	eP	28 48.00	1.9
SLA	8.11	47	iPd	29 03.00	-0.9
MOCB	10.80	34	P	29 44.70	3.6X
ARE	13.92	2	e(P)	30 27.80	5.2X
CNCB	14.06	16	P	30 27.00	2.4X
CCH	14.06	24	P	30 35.60	11.2X
LPB	14.30	15	P	30 27.00	-0.6X
ZOBO	14.55	15	P	30 28.80	-2.2
	1.0s	22.50nm		4.6mb	
PPD	20.34	71	eP	31 39.50	-1.0
VAO	23.53	78	eP	32 12.40	0 1
NVL	59.58	158	eP	37 04 00	-2.2

	2.0s	62.00nm		5.4mb	
	Z 20s	3.00um		5.4Msz	
	N 20s	1.00um			
	E 20s	1.50um			
UYO	67.67	340	iPd	37 59.00	-0.6
LIC	73.65	72	P	38 37.60	1.5
KIC	73.96	73	P	38 39.10	1.1
ULM	83.08	345	eP	39 28.50	1.6
LRM	84.31	333	eP	39 35.10	1.5
FCC	90.76	349	eP	40 19.50	15.5X
BCAO	92.68	86	iPd	40 22.00	8.0X
	0.9s	9.00nm		5.2mb	
GEC2	109.62	44	ePKP	45 40.30	8.0X
	0.9s	0.97nm			
WRA	123.86	210	PKP	46 07.60	7.4X
	0.9s	1.10nm			
YAK	145.38	342	ePKP	46 38.10	-0.7
	1.5s	121.00nm			
GBA	147.23	114	PKP	46 47.00	3.8X

S.D. = 1.5 on 21 of 31 obs.

MAY 26, 1993 01h 11m 05.71± 0.55s
31.792 S ± 6.9km 66.840 W ± 6.2km
DEPTH = 144.7 ± 5.2 km
4.6mb (1 obs.)
LA RIOJA PROVINCE, ARGENTINA (138)

CFA	1.21	278	iPd	11 31.70	-0.5
RTCV	1.45	267	iPc	11 34.30	-0.4
RTLL	1.47	288	iPd	11 34.50	-0.4
RTPR	1.51	11	iPd	11 35.90	0.6
ZON	1.59	278	iPc	11 35.90	-0.3
TCA	1.97	77	iPd	11 41.80	1.1
RTBS	2.23	273	iPc	11 44.10	0.4
RTRS	2.77	305	iPd	11 51.00	0.6
CYA	3.46	15	iPc	11 59.30	-0.1
			(S)	12 29.20	
FSA	5.73	7	iP	12 29.50	-0.2
			(S)	13 19.00	
SLA	7.14	10	ePd	12 48.80	-0.1
MOCB	10.55	6	P	13 34.50	-0.1
CCH	14.36	3	P	14 24.70	0.9
			i	14 29.00	
CNCB	14.95	356	P	14 31.00	-0.4
LPB	15.23	355	P	14 36.00	1.1
ZOBO	15.50	355	P	14 36.90	-1.4
	1.0s	32.50nm		4.6mb	
PPD	16.90	59	eP	14 53.50	-1.5
VAO	19.67	68	eP	15 25.20	-0 5
LRM	87.60	330	eP	23 39.40	0.8
WB2	124.69	204	iPKPc	29 49.40	-0.6
	0 4s	8.10nm			
WRA	124.70	204	PKP	29 49.80	-0.2
	0.7s	2.20nm			
HYB	145.60	106	ePKP	30 30.00	1.2

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

% MAY 26, 1993 01h 12m 09.01± 0.81s
26.371 S ± 6.0km 27.453 E ± 9.6km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.5 (PRE).

PRY	0.56	178	eP	12 20.00	-0.2
			S	12 26.50	
KSR	0.71	315	eP	12 23.35	0.1
			S	12 33.00	
SLR	0.98	50	eP	12 28.00	-0.1
SEK	1.95	176	eP	12 44.00	0.7
			S	13 07.00	
BLF	2.95	202	e(P)	12 57.00	-0.5

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

MAY 26, 1993 02h 32m 47.06± 0.61s
31.855 S ± 7.2km 66.887 W ± 7.4km
DEPTH = 149.6 ± 9.6 km
LA RIOJA PROVINCE, ARGENTINA (138)

MRA	1.14	119	e(P)	33 13.80	0.5
			S	33 40.40	
CFA	1.18	282	iPd	33 13.20	-0.5
			(S)	33 27.00	
RTCV	1.40	269	iPc	33 15.70	-0.3
RTLL	1.45	291	eP	33 16.00	-0.4
ZON	1.56	281	iPc	33 17.50	-0.1
			eS	33 37.50	
RTPR	1.58	12	iPd	33 17.50	-0.2

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RTBS    2.19 274 iPc    33 25.80   1.0
RTRS    2.77 307 iPd    33 32.00   0.0
RFA     3.19 204 iPc    33 37.50   0.0
                 S      34 14.00
CYA     3.53  16 ePc    33 41.30  -0.5
                 (S)    34 11.30
FSA     5.80   8 eP     34 12.30   0.3
                 (S)    35 00.30
MOCB   10.62   6 P      35 18.50   1.8
CCH    14.42   3 eP     36 07.00   1.3
CNCB   15.01 356 P      36 17.00   3.7X
LPB    15.29 356 eP     36 20.00   3.3X
ZOBO   15.56 356 P      36 19.20  -1.0
SIV    16.66  20 P      36 31.60  -1.6
PPD    16.97  59 (P)    36 37.00   0.1
VAO    19.73  68 (P)    37 07.00  -0.3
     S.D. = 0.9  on  17 of  19 obs.
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   MAY  26, 1993  03h 30m 51.71± 0.98s
    5.522 S ± 3.9km  151.832 E ± 4.6km
   DEPTH =  37.7 ±  8.4 km
   5.4mb ( 37 obs.)  5.2Msz ( 34 obs.)
 NEW BRITAIN REGION, P.N.G.        (192)
      Mw 5.7 (HRV). Ms 5.4 (BRK).
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 43S, 75C
      Centroid Location:
      Origin Time        03:30:54.5 0.3
      Lat  5.69S 0.03 Lon 152.18E 0.04
      Dep  15.3 BDY Half-duration  1.7
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 1.48 0.06  Mtt=-1.27 0.06
        Mff=-0.21 0.07  Mrt= 2.82 0.40
        Mrf= 1.25 0.20  Mtf=-0.48 0.06
       Principal Axes:
        T  Val=  3.44  Plg=58  Azm=335
        N       -0.03       1       67
        P       -3.41      32      157
      Best Double Couple:Mo=3.4*10**17
       NP1:Strike=252 Dip=13 Slip=  95
       NP2:        66     77       89

RAB     1.36  14 iPd-   31 16.50   1.9
SVO     8.70 115 eP     32 57.00  -1.1
HNR     8.93 116 eP     33 08.00   6.6X
                 eS     34 32.00
CTA    15.46 200 iP     34 28.00  -0.9
       2.0s    73.53nm          4.5mb
                 i      34 33.00
                 eS     37 24.00
TLE    18.99 269 ePd    35 21.50   8.5X
GUA    20.14 340 eP     35 26.40   0.7
       1.0s   664.00nm          5.9mb
GUMO   20.21 340 eP     35 26.10  -0.2
       1.1s   671.20nm          5.9mb
     Z  20s     0.73um          4.0MszX
                 e      35 35.30
PJG    20.21 340 eP     35 27.00   0.7
DZM    21.69 141 iPd    35 39.90  -1.6
BRS    21.77 178 iPd    35 40.00  -2.2
       1.2s    12.00nm          4.2mb X
                 e(S)   39 45.00
OLP    22.16 198 iPd    35 46.10   0.0
WB2    22.24 228 iPc    35 47.60   0.7
       0.6s    64.20nm          5.2mb
                 e      35 50.70
                 eS     39 51.20
WRA    22.25 228 P      35 48.20   1.2
KNA    24.81 244 eP     36 13.50   1.5
       0 6s   250.00nm          6.0mb
ASPA   24.97 222 iPd    36 14.90   1.4
       0.8s   161.00nm          5.7mb
     Z  21s     3.00um          4.8Msz
                 eS     40 42.80
STK    27.92 199 eP     36 40.20  -0.3
       0.7s    9.40nm          4.6mb
BWA    28.93 186 eP     36 50.10   0.4
DAV    29.04 295 eP     36 52.90   2.1
CNB    29.74 184 eP     36 56.00  -0.9
       1.0s    31.00nm          5.0mb
CAN    29.77 185 eP     36 56.00  -1.2
WSI    31.52 261 ePd    37 13.00   0.2
WARB   31.64 227 eP     37 08.00  -5.8X
ADE    31.71 201 iPd    37 13.60  -0.7
MBL    34.69 240 eP     37 41.90   1.6
       0.5s    24.00nm          5.4mb

TGY    36.33 303 eP     37 56.30   2.0
OCP    36.48 304 eP     37 43.00 -12.5X
BCP    37.80 306 eP     38 09.00   2.2
BAG    37.82 306 ePc+   38 07.00   0.1
       1.5s   605.56nm          6.3mb
MEEK   38.00 233 eP     38 08.00  -0.2
       0.4s    37.00nm          5.6mb
                 e      38 12.00
TKSJ   42.74 338 P      38 46.00  -1.1
KAKJ   42.92 346 eP     38 45.70  -2.9X
CHJJ   43.07 345 eP     38 46.30  -3.5X
TSRJ   43.47 341 P      38 52.00  -1.1
MAT    43.74 344 iPc    38 51.80  -3.5X
       1.0s     9.00nm          4.5mb
     Z  20s     0.71um          4.6Msz
                 eS     45 07.00
MTMJ   43.90 344 P      38 54.30  -2.3
LEM    43.97 266 iPd    38 56.80  -0.8
YONJ   44.03 338 P      38 57.10  -0.5
NIIJ   44.19 345 P      38 56.40  -2.5
SSE    46.72 323 P      39 12.50  -6.6X
       1.2s    15.00nm          4.8mb
     Z  20s    23.00um          6.1Msz
     N  20s     2.20um
                 pP     39 19.50  23kmX
                 PcP    40 48.00
                 S      46 04.00
                 PS     46 28.00
HON    55.95  60 P      40 40.00  11.1X
     Z  21s     0.63um          4.7Msz
BJI    55.97 327 eP     40 28.00  -0.7
       1.4s    48 00nm          5.3mb
     Z  22s     1.23um          4.9Msz
                 eS     48 16.00
                 eSS    52 08.00
KMI    56.60 305 Pc     40 34.00   0.2
       1.5s   130.00nm          5.7mb
     Z  20s     1.50um          5.1Msz
                 pP     40 57.50  95kmX
                 eS     48 38.00
                 S      48 42.00
                 SS     52 40.00
PET    58.60   5 eP     40 48.00   0.9
     Z  19s     0.50um          4.7Msz
SMY    61.03  15 P      41 10.00   6.2X
     Z  19s     2.08um          5.3Msz
LZH    61.08 317 iPc    41 04.80   0.1
       1.5s    97.00nm          5.7mb
     Z  20s     0.99um          5.0Msz
     E  16s     0.61um
                 sP     41 29.00
                 PP     43 24.00
                 eS     49 26.00
                 SS     53 34.00
ADK    63.18  21 e(P)   41 15.80  -2.4
CIT    65.90 335 eP     41 34.50  -1.4
YAK    69.47 349 eP     41 55.90  -2.1
       1.9s    77.00nm          5.4mb
     Z  18s     0.50um          4.8Msz
     N  18s     0.40um
     E  18s     0.30um
ZAK    69.61 329 iPc    41 59.00   0.0
       1.1s    70.00nm          5.6mb
                 e      55 23.00
BOD    70.08 340 eP     42 00.20  -1.7
       1.0s    16.00nm          5.0mb
MOY    71.55 329 ePc    42 11.00   0.2
       1.2s    88.00nm          5.6mb
KKN    72.15 301 P      42 14.80  -0.4
SDN    72.27  26 eP     42 13.60  -1.4
KOD    75.69 282 eP     42 34.00  -2.0
HYB    75.82 289 eP     42 35.50  -0.9
       1.0s    30.00nm          5.2mb
ILT    76.14  11 iPd    42 36.60  -0.6
       1.0s    22.00nm          5.1mb
                 e      53 04.00
GBA    76.23 285 P      42 38.80   0.1
       1.3s     6.00nm          4.4mb
KDC    77.27  27 eP     42 43.20  -0.4
SVW    77.85  23 eP     42 47.50   0.6
TIK    78.47 353 iPc    42 47.50  -2.5
       1.6s    13.00nm          4.7mb
     Z  18s     0.60um          5.0Msz
                 e      43 00.00
                 e      45 48.00
                 ePPP   47 40.00
                 eS     52 50.00

RSO    78.64  25 eP     42 49.36  -2.1
TTA    78.79  22 eP     42 52.20   0.1
SLKM   79.73  25 ePc    42 56.43  -0.7
ELT    80.15 326 iPc    42 50.00  -9.4X
                 e      53 16.00
PMR    80.74  25 eP     43 01.50  -0.9
       1.2s    99.60nm          5.7mb
IMA    81.45  20 eP     43 06.10  -0.2
       1.2s    27.80nm          5.1mb
KLU    82.04  25 ePc    43 09.06  -0.3
FBA    82.91  22 eP     43 12.40  -1.3
BALM   83.40  27 ePd    43 16.07  -0.3
FRU    84.42 314 eP     43 22.00   0.2
       1.8s   110.00nm          5.7mb
SIT    85.39  32 eP     43 27.30   1.1
       1.1s   140.30nm          6.1mb
SIT    85.39  32 P      43 40.00  13.8X
     Z  20s     1.84um          5.5Msz
NRI    86.19 341 iPd    43 29.30  -0.7
       2.4s    94.00nm          5.6mb
                 e      43 47.00
                 e      54 00.00
INK    89.47  21 eP     43 46.50   0.7
       1.3s    28.00nm          5.4mb
WDC    90.24  49 ePc    43 54.99   5.0X
     Z  21s     1.20um          5.3Msz
                 eS     53 00.99
                 eScS   54 55.99
                 iPS    56 05.99
                 iSS    01 15.99
                 eLQ    07 03.99
                 e      08 26.99
                 eLR    11 17.99
WDC    90.24  49 P      44 00.00  10.0X
     Z  21s     1.08um          5.3Msz
SAO    90.65  53 P      44 00.00   8.0X
     Z  19s     0.88um          5.2Msz
LBFM   90.82  49 ePd    43 53.66   0.7
ORV    90.91  51 ePc    43 54.42   1.3
GMW    90.92  42 eP     43 53.02   0.0
SHW    91.13  44 eP     43 54.46   0.3
                 e      44 01.44
VBEM   91.45  45 P      43 56.21   0.5
JCW    91.57  42 P      43 56.76   0.8
ASR    91.57  44 P      43 56.74   0.6
BCH    91.58  55 eP     43 57.47   1.0
CMB    91.62  52 ePc    43 56.68   0.2
     Z  19s     1.70um          5.5Msz
                 ePP    47 31.68
                 iS     54 12.68
                 e      54 47.68
                 e      55 05.68
                 ePS    56 14.68
                 eSS    01 20.68
                 eLQ    07 38.68
                 e      09 19.68
CROR   91.87  45 P      43 58.05   0.6
VGB    92.07  45 ePc    43 58.52   0.2
VIPM   92.08  46 P      43 58.59   0.0
ABL    92.25  55 (P)    44 00.63   0.9
JBO    92.72  45 P      44 01.81   0.5
WTV    92.84  43 P      44 02.08   0.2
ISA    92.93  55 eP     44 03.02   0.4
       1.0s     8.68nm          5.1mb
     Z  19s     0.91um          5.2Msz
                 e      44 12.60
WAH2   93.02  43 P      44 03.36   0.7
SAW    93.21  43 P      44 03.72   0.2
BONR   93.25  52 eP     44 05.24   0.9
KVN    93.49  51 eP     44 06.18   0.9
LNOR   93.84  44 P      44 06.83   0.3
PEC    93.88  56 eP     44 07.57   0.6
       1.3s    35.68nm          5.6mb
                 e      44 16.36
DPW    94.03  42 ePc    44 07.24  -0.1
PLM    94.09  57 eP     44 09.57   1.5
                 e      44 20.14
TNP    94.11  52 eP     44 09.04   0.9
       1.2s    19.94nm          5.4mb
NEW    94.78  42 ePc    44 10.45  -0.3
       1.0s    22.86nm          5.6mb
     Z  18s     2.94um          5.8Msz
TPNV   94.81  53 (P)    44 12.37   1.0
       1.1s    21.50nm          5.5mb
MBC    95.04  14 eP     44 11.50   0.1
       1.0s    10.00nm          5.2mb
SVE    95.24 326 ePd    44 11.50  -1.1
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26d 03h

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ARUT    97.08   53 eP      44 23.00    1.3
DUG     97.62   50 P       44 30.00    6.0X
      Z  18s      0.81um                5.3Msz
LRM     97.91   45 eP      44 25.40    0.1
MSU     98.10   52 ePd     44 27.40    1.1
SRU     99.38   51 ePc     44 31.82   -0.2
                   e       44 43.74
GOL    103.35   51 Pdiff   45 00.00   10.1X
      Z  18s      1.00um                5.4Msz
RSSD   103.97   46 ePdiff  44 52.38   -0.1
        1.1s     10.97nm               5.6mb
                   e       45 03.94
MIAR   113.32   55 PKP     49 40.00   12.3X
      Z  18s      0.80um                5.4Msz
FRB    115.02   19 ePKP    49 29.00   -1.0
SLM    115.13   50 PKP     49 40.00    8.9X
      Z  18s      0.54um                5.2Msz
FVM    115.13   51 PKP     49 40.00    8.9X
      Z  20s      1.32um                5.5Msz
JAQ    118.39   30 ePKP    49 35.50   -1.3
EEO    120.12   38 ePKP    49 43.50    3.2X
SPC    120.37  325 ePKP    49 42.20    1.2
GOGA   121.76   54 PKP     49 50.00    6.2X
      Z  19s      0.48um                5.1Msz
SRO    122.18  325 ePKP    49 43.40   -0.8
PRM    122.46   53 ePKP    49 45.25    0.1
ZST    122.67  326 ePKP    49 44.20   -0.9
GAC    122.76   38 ePKP    49 45.50    0.2
BRG    122.81  330 ePKP    49 46.40    1.1
        1.7s     28.00nm
SKO    123.00  317 iPKPc   49 45.00   -1 0
CLL    123.01  330 ePKP    49 46.00    0.4
        1.9s     21.00nm
PRU    123.03  329 ePKP    49 45.80    0 1
      Z  20s      0.50um                5.2Msz
      N  20s      0.10um
      E  20s      0.30um
JSC    123.27   52 ePKP    49 46 69    0.0
OHR    123.81  317 iPKP    49 43.10   -4.6X
RSNY   123.92   39 PKP     50 00.00   12.3x
      Z  20s      0 44um                5.1Msz
KHC    124.05  328 PKP     49 48.00    0.1
      Z  20s      0 70um                5.3Msz
      N  20s      0.30um
      E  20s      0.50um
                   e       49 57.00
                   e       51 22.50
MOX    124.11  331 ePKP    49 48.60    0.7
      Z  23s      0.50um                5 1MszX
GEC2   124.16  328 ePKP    49 46.60   -1.6
        0.6s     2.33nm
                   e       49 48.10
                   e       49 49.30
                   e       49 55.10
                   e       49 57.90
HBF    124.38   54 ePdiff  46 22.63   -0.7X
CEH    124.42   50 PKP     50 00.00   11.1X
      Z  21s      0.55um                5.2Msz
GRF    124.91  330 ePKP    49 49.70    0.2
      Z  23s      0.50um                5.1MszX
KBA    125.40  326 iPKPd   49 49.90   -0.8
        1.0s     6.80nm
WATA   126.20  327 iPKPd   49 51.70   -0.6
WTTA   126.22  327 iPKPd   49 52.10   -0.3
        1.0s     19.60nm
                   i       50 00.90
CBM    126.34   33 PKP     50 00.00    7.7X
      Z  20s      0.98um                5.5Msz
MOTA   126.45  328 iPKPd   49 52.20   -0.6
                   i       50 02.20
HRV    126.82   39 PKP     50 00.00    6.6X
      Z  19s      0.73um                5.4Msz
ROI    127.39  317 PKP     49 54.20   -0.4
ARV    127.69  323 PKPd    49 55.30    0.3
CDF    127.70  331 ePKP    49 53.40   -1.6
SFI    128.09  324 PKP     49 56.60    0.9
BSF    128.34  331 iPKPd   49 56.10   -0.2
        1.5s     32.40nm
HAU    128.44  331 iPKPd   49 56.50    0.2
        1.3s     20.95nm
      Z  22s      0.35um                5.0Msz
SOI    128.44  315 PKP     49 56.60    0.0
VAI    128.63  327 PKP     49 56.30   -0.4
LMN    128.80   32 ePKP    50 00.50    3.4X
LOR    130.15  332 iPKPd   49 59.80    0.2
        1.2s     13.10nm
      Z  22s      0.45um                5.1Msz

SSF    130.46  332 iPKPd   50 00.50    0.3
        1.9s     47.30nm
PGF    130.58  324 iPKPd   50 00.80    0.1
        1.2s     27.05nm
SMF    130.60  331 iPKPd   50 00.60    0.1
        1.7s     41.15nm
SBF    130.65  326 iPKPd   50 00.60   -0.1
FRF    131.28  326 iPKPd   50 02.10    0.3
        1.4s     32.65nm
GRR    131.36  336 iPKPd   50 02.30    0.5
        1.4s     34.00nm
LMR    131.50  326 iPKPd   50 02.40    0.2
        1.2s     17.55nm
MAF    131.52  332 ePKP    50 02.80    0.6
TCF    131.64  332 ePKP    50 02.80    0.3
        1.4s     14.40nm
LPF    131.72  336 iPKPd   50 03.10    0.6
        1.4s     38.75nm
RJF    132.69  332 iPKPd   50 03.60   -0.9
        1.4s     15.70nm
      Z  22s      0 40um                5.1Msz
LPO    133.31  331 iPKPd   50 06.70    1 1
        1.4s     22.65nm
BCAO   133.47  271 iPKPc   50 06.00   -0.9
        1.2s     35.00nm
                   ic      50 13.00
MOCB   134.63  127 PKP     50 09 50    0.1
CNCB   134.82  120 PKP     50 10.00    0.0
                   i       53 41.80
LPB    134.84  120 ePKP    49 55.00  -14.9X
                   e       53 41 00
ZOBO   134.93  119 PKP     50 06.00   -4.3X
      Z  22s      0 18um                4.8Msz
                   LR      35 00.00
PPD    144.45  141 ePKP    50 23.90   -2.7X
IFR    144.87  325 iPKPc   50 26.00   -1.2
VAO    146.22  148 ePKP    50 30.80    1.1
AVE    146.29  328 iPKPc   50 31.00    1.6
                   ,       50 56.50
TPP    146.71   80 ePKP    50 32.55    2.0
TRN    146.72   79 ePKP    50 31.55    1.0
TBH    147.07   79 ePKP    50 33.36    2.2
TIO    147.99  325 iPKPc   50 35.50    3.1X
KIC    156.68  273 PKP     51 01.60   16.5X
                   e       51 12.60
      S.D. = 1.0  on 146 of 180 obs.
-------------------------------------
*  MAY  26, 1993  03h 55m 14.29± 0.79s
    6.508 N ±27.1km   72.583 W ±25.5km
    DEPTH = 160.0km  (geophysicist)
 NORTHERN COLOMBIA                ( 99)

FUQ      1.54  228 iP      55 45.00   -0.8
BOG      2.38  218 eP      55 56.00    0.7
                   eS      56 26.50
SDV      3.05   39 iPnc    56 03.80    0.4
                   iSn     56 41.20
TOV      4.27   40 ePnd    56 19.00   -0.1
                   eSn     57 09.30
CEOS     4.90   59 iP      56 27.80    0.4
                   iS      57 24.90
GUAN     7.67   63 iP      57 04.00   -0.5
      S.D. = 0.7  on   6 of   6 obs.
-------------------------------------
?  MAY  26, 1993  04h 17m 14.87±11.20s
    38.136 N ±79.2km   20.340 E ±50.5km
    DEPTH =  10.0km  (geophysicist)
 GREECE                           (364)
      MD 3.0 (ATH).

VLS      0.20   78 ePg     17 17.60   -1.7
                   eSg     17 23.90
IGT      1.39  360 ePg     17 41.00    0.7
KEK      1.63  345 ePn     17 49.00    5.3X
AGG      1.79   60 ePg     17 47.36    1.3
                   eSg     18 02.90
LIT      2.58   40 ePb     17 56.80   -0.6
                   eSb     18 17.10
OHR      2.99    7 iPn     18 02.20   -1.0
PAIG     3.16   54 ePn     18 07.00    1.5
GRG      3.24   29 ePn     18 05.90   -0.8
SOH      3.55   40 ePn     18 11.64    0.4
OUR      3.58   51 ePn     18 12.70    1.2
KNT      3.61   32 ePn     18 11.12   -0.9
      S.D. = 1.3  on  10 of  11 obs.
-------------------------------------
%  MAY  26, 1993  05h 21m 54.60± 0.68s
    40.328 N ± 6.0km   27.863 E ± 5.7km
    DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 2.7 (ISK).

EDC      0.02    1 iPg     21 57.00    0.5
                   iSg     21 58.00
BNT      0.05   57 iPg     21 56.20   -0.6
                   iSg     21 58.20
KCT      0.39  102 iPg     22 02.70    0.2
CTT      0.92   28 iPg     22 13.20    0.9
DST      0.93  141 iPg     22 13.00    0.6
                   iSg     22 26.00
YLV      1.18   78 iPn     22 17.70    1.1
EZN      1.28  247 iPn     22 19.00    0.6
DMK      1.49  357 ePn     22 21.80    0.3
      S.D. = 0.6  on   8 of   8 obs.
-------------------------------------
    MAY  26, 1993  05h 27m 45.18± 0.67s
    41.019 N ± 5.2km   22.374 E ± 5.4km
    DEPTH =  10.0km  (geophysicist)
 NORTHWESTERN BALKAN REGION       (383)
      ML 1.5 (SKO).

GRG      0.07  162 ePg     27 47.32   -0.2
VAY      0.34   26 iPg     27 52.00   -0.1
                   iSg     27 57.20
KNT      0.42   70 ePg     27 54.08    0.3
                   eSg     28 00.40
THE      0.59  131 ePg     27 56.90   -0.2
                   eSg     28 04.16
SOH      0.77  105 ePg     27 59.76   -0.4
                   eSg     28 11.40
FNA      0.79  253 ePg     28 00.60    0.0
                   eSg     28 12.90
LIT      0.92  174 iPg     28 03.06    0.3
                   eSg     28 16.20
OUR      1.40  119 ePb     28 11.30    0.6
PAIG     1.48  137 ePb     28 11.68   -0.1
                   eSb     28 33.80
      S.D. = 0.4  on   9 of   9 obs.
-------------------------------------
?  MAY  26, 1993  06h 11m 48.97± 8.73s
    17.145 N ±40.2km   67.528 W ±56.8km
    DEPTH =  10.0km  (geophysicist)
 MONA PASSAGE                     ( 89)

MGP      0.95   26 P       12 05.00   -2.1
PORP     1.24   43 P       12 12.80    0.8
CLLP     1.30   44 P       12 13.20    0.2
LRS      1.31   30 P       12 14.00    0.7
APR      1.51   30 P       12 17.40    1.4
SJG      1.63   54 P       12 17.40   -0.4
                   S       12 45.90
CPD      1.78   60 P       12 19.00   -1.0
                   S       12 48.00
LPR      1.96   54 P       12 23.00    0.4
      S.D. = 1.3  on   8 of   8 obs.
-------------------------------------
%  MAY  26, 1993  07h 33m 54.13± 0.92s
    26.907 S ± 9.4km   26.736 E ± 7.3km
    DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA         (584)
      ML 2.8 (PRE).

BFS      0.04   79 iPd     33 56.20    0.6
PRY      0.66   92 eP      34 05.70   -1.6
                   S       34 14.10
KSR      1.05    8 eP      34 14.50    0.0
                   S       34 27.00
SWZ      1.29  257 eP      34 18.00   -0.6
                   S       34 35.40
SEK      1.62  151 eP      34 24.50    1.0
                   S       34 44.50
SLR      1.81   50 iPd     34 27.10    0.7
                   S       34 50.00
      S.D. = 1.3  on   6 of   6 obs.
-------------------------------------
?  MAY  26, 1993  07h 44m 47.25± 1.41s
    39.632 N ±16.4km   27.350 E ± 7.4km
    DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 2.8 (ISK).

EZN      0.81  284 ePg     45 03.00    0.0
                   eSg     45 11.60
EDC      0.82   29 ePg     45 03.00   -0.1
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                    eSg    45 16.00
DST      0.99  91 ePn    45 06.00    0.0
KCT      0.99  51 iPn    45 06.10    0.1
EYL      2.35  66 ePn    46 03.10   36.5X
      S.D. = 0.1  on   4 of   5 obs.
-------------------------------------------
?  MAY  26, 1993  07h 47m 29.81± 1.04s
    6.306 N ±31.6km   72.281 W ±29.3km
    DEPTH =  33.0km  (normal)
 NORTHERN COLOMBIA                  ( 99)

FUQ      1.67 240 iP     47 58.00    0.5
BOG      2.44 227 eP     48 08.00   -0.5
                 iS     48 41.00
SDV      3.04  32 iPnd   48 17.60    0.7
                 iSn    48 55.30
TOV      4.25  35 ePn    48 32.70   -1.2
                 eSn    49 22.50
CEOS     4.76  55 iP     48 41.60    0.5
                 iS     49 38.30
      S.D. = 1.2  on   5 of   5 obs.
-------------------------------------------
?  MAY  26, 1993  07h 47m 32.67± 6.88s
    8.200 S ±70.5km   73.425 W ±23.3km
    DEPTH = 189.2 ± 48.9 km
    4.4mb (  1 obs.)
 PERU-BRAZIL BORDER REGION          (112)

NNA      5.05 222 eP     48 48.20    0.0
       0.5s     14.79nm          4.4mb
                 eS     49 49.50
ZOBO     9.55 148 P      49 46.90   -0.8
LPB      9.78 148 eP     49 51.00    0.4
CNCB    10.07 149 P      49 55.00    0.4
HJA     16.80 154 ePd    51 18.50   -0.1
PPD     25.34 125 (P)    52 44.00    0.0
      S.D  = 0.7  on   6 of   6 obs.
-------------------------------------------
&  MAY  26, 1993  08h 55m 44.39s
    37.117 N          117.777 W
    DEPTH =   0.1km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      <GM-P>. MD 3.2 (GM), 3.0 (PAS).
      ML 3.7 (BRK), 3.1 (GS).

BHPR     0.60 288 P      55 56.41    0.1
BCKR     0.75 321 P      55 59.09   -0.2
ORC      0.87 307 P      56 01.54   -0.2
BONR     0.93 334 P      56 02.60   -0.4
CLKR     0.96 300 P      56 03.12   -0.6
MCSM     1.05 301 P      56 04.84   -0.4
TNP      1.06  25 P      56 05.30   -0.1
MEMM     1.08 301 P      56 05.20   -0.3
TPNV     1.23  97 P      56 08.10   -0.3
NMC      1.28 185 P      56 10.14    1.1
WORM     1.47 195 P      56 11.97   -0.2
WASM     1.51 205 P      56 13.09    0.1
FRI      1.55 266 iP     56 13.13   -0.2
                 eS     56 33.52
ISA      1.56 201 P      56 12.80   -0.7
WBSM     1.60 191 P      56 16.86    2.6
WOFM     1.75 206 P      56 16.53    0.2
MSTM     2.23 291 P      56 25.63    2.4
CMB      2.27 295 ePn    56 23.41   -0.3
                 eS     56 54.11
MCUM     2.41 292 P      56 25.78    0.0
MRFM     2.45 298 P      56 29.23    2.8
MARC     2.46 211 P      56 29.54    3.1
BMSM     2.46 260 P      56 28.14    1.6
PHAM     2.47 240 P      56 27.60    1.0
PRI      2.52 248 eP     56 27.94    0.6
                 eS     57 03.34
ABL      2.55 208 P      56 29.30    1.4
HVC      2.55 254 P      56 28.94    1.1
LLA      2.59 260 eP     56 29.21    0.9
                 eS     57 05.53
MNHM     2.62 294 P      56 29.11    0.4
BCH      2.68 225 P      56 31.00    1.3
CMPM     2.83 276 P      56 35.09    3.3
LTR      2.84 266 P      56 33.66    1.8
SAO      2.96 264 eP     56 34.09    0.5
CMMM     2.98 278 P      56 39.72    5.7
PRS      2.99 256 eP     56 35.05    1.1
MHC      3.09 275 ePc    56 37.24    1.7
                 eS     57 22.64
PEC      3.26 171 P      56 36.80   -1.0
ARUT     3.52  78 P      56 54.80   13.2
ORV      3.81 311 eP     56 45.46   -0.2
MSU      4.65  71 P      56 56.40   -1.4
DUG      4.95  50 P      57 18.00   16.0
SRU      6.06  69 P      57 17.00   -0.6
       41 obs. ossocioted
-------------------------------------------
?  MAY  26, 1993  09h 19m 04.04± 6.90s
    39.065 N ±48.1km   27.559 E ±22.1km
    DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)
      ML 2.9 (ISK).

DST      0.99  57 ePn    19 22.80    0.0
                 eSg    19 37.00
EDC      1.30  10 iPn    19 28.00   -0.1
KCT      1.33  27 iPn    19 28.80    0.2
KGT      1.40 352 iPn    19 29.60    0.0
      S.D. = 0.2  on   4 of   4 obs.
-------------------------------------------
   MAY  26, 1993  09h 26m 41.30± 0.94s
   30.513 N ± 6.2km  138.218 E ± 6.8km
   DEPTH = 442.1 ± 10.9 km
   4.1mb ( 21 obs.)
 SOUTH OF HONSHU, JAPAN             (211)

MAT      6.01 360 iPc    28 16.10   -0.3
       0.9s     37.82nm          4.5mb
                 eS     29 28.00
PJG     17.93 159 eP     30 24.70    1.2
GUA     17.99 158 eP     30 25.10    1.0
       0.6s     53 33nm          5.2mb X
BJI     20 31 304 eP     30 47.00    0.6
       1.5s     34.00nm          4.6mb
LZH     29.16 290 eP     32 06.30   -0.3
       1.0s     42.00nm          4.8mb
GUN     45.42 280 P      34 21.40    0.5
KKN     45.97 280 P      34 25.40    0.5
DMN     46 17 280 P      34 26.80    0.3
       0.4s     17.00nm          4.8mb
GKN     46.45 281 P      34 29.20    0.6
       0.6s     26.00nm          4.8mb
WB2     50.30 185 iPd    34 55.90   -1.6
       0.4s      9.00nm          4.5mb
WRA     50.30 185 P      34 56.30   -1.2
       0.7s      4.60nm          3.9mb
IMA     53.66  28 eP     35 20.89   -0.8
       0.8s      1.38nm          3.3mb
ASPA    54.03 185 eP     35 23.20   -1.4
       0.7s      6.50nm          4.1mb
FBA     56.05  30 (P)    35 37.47   -0.9
       0.6s      3.19nm          3.8mb
KLU     57.02  34 eP     35 44.14   -1.0
GBA     58.15 267 Pd     35 53.30   -0.1
       0.6s      4.00nm          4.0mb
BALM    58.78  34 eP     35 55.87   -1.4
INK     61.40  25 eP     36 14.50    0.1
       0.5s      2.00nm          3.9mb
MBC     63.51  15 eP     36 28.00    0.0
       0.5s      3.00nm          4.1mb
YKA     70.79  28 P      37 11.30   -1.6
       0.8s      2.50nm          3.9mb
GMW     73.73  44 eP     37 31.15    0.9
DPW     76.28  42 iPd    37 45.10    0.6
NEW     76.71  42 eP     37 47.00    0.2
       0.8s     10.83nm          4.5mb
ORV     78.38  51 eP     37 55.50   -0.5
HFS     78.90 335 eP     37 57.70   -0.5
       0.4s      1.40nm          4.0mb
NB2     79.13 337 P      37 59.20   -0.3
       0.7s      2.20nm          3.9mb
LRM     80.71  42 eP     38 08.80    0.4
BONR    81.35  51 eP     38 12.64    0.8
DUG     83.69  47 eP     38 24.31    0.9
       0.6s      3.83nm          4.3mb
                 epP    40 00.70 425kmX
FRB     83.70  12 eP     38 23.00    0.2
       0.5s      2.00nm          4.1mb
BW06    84.17  43 eP     38 26.20    0.3
       0.8s      0.89nm          3.5mb
DAU     84.54  46 eP     38 28.86    1.0
SRU     85.76  47 eP     38 34.41    0.7
RSSD    86.50  40 eP     38 38.00    0.8
       0.7s      1.21nm          3.8mb
      S.D. = 0.9  on  34 of  34 obs.
-------------------------------------------
?  MAY  26, 1993  09h 55m 56.22± 6.87s
    39.329 N ±48.6km   29.587 E ±24.7km
    DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)
      ML 2.7 (ISK).

DST      0.79 291 ePg    56 11.00   -0.7
                 eSg    56 24.80
YLV      1.25 352 ePn    56 19.10   -0.3
EYL      1.31  19 ePn    56 20.60    0.1
KCT      1.32 314 iPn    56 21.60    1.0
      S.D. = 1.2  on   4 of   4 obs.
-------------------------------------------
%  MAY  26, 1993  10h 04m 49.52± 0.83s
    42.278 N ± 6.3km   19.518 E ± 5.6km
    DEPTH =  10.0km  (geophysicist)
 NORTHWESTERN BALKAN REGION         (383)
      ML 1.9 (TTG).

TTG      0.24 309 iPgc   04 55.45    0.8
                 iSg    05 00.10
ULC      0.37 212 iPgd   04 57.28    0.1
                 iSg    05 03.10
PVY      0.46  47 iPgc   04 59.04    0.1
                 iSg    05 06.37
BDV      0.51 271 iPgc   04 59.75   -0.2
                 iSg    05 07.83
IVA      0.66  25 iPgc   05 02.55   -0.1
                 iSg    05 12.63
NKY      0.66 324 iPgd   05 02.31   -0.4
                 iSg    05 12.55
HCY      0.77 283 iPgc   05 04.31   -0.3
                 iSg    05 16.10
BRY      0.95 311 ePg    05 07.78    0.0
                 iSg    05 22.01
      S.D. = 0.4  on   8 of   8 obs.
-------------------------------------------
?  MAY  26, 1993  10h 37m 33.81± 5.57s
    47.374 N ±39.9km   11.618 E ±23.9km
    DEPTH =  10.0km  (geophysicist)
 AUSTRIA                            (546)
      ML 1.2 (VIE).

WATA     0.05 217 iPgc   37 36.20    0.1
                 iSg    37 38.40
WTTA     0.11 174 iPgd   37 36.80    0.0
                 iSg    37 39.40
SQTA     0.32 241 iPgc   37 40.40   -0.1
                 iSg    37 46.60
MOTA     0.35 265 iPgc   37 41.10    0.0
                 iSg    37 47.60
      S.D. = 0.1  on   4 of   4 obs.
-------------------------------------------
?  MAY  26, 1993  10h 44m 16.52± 7.13s
    39.309 N ±50.9km   29.662 E ±29.9km
    DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)
      ML 2.6 (ISK).

DST      0.85 291 iPg    44 32.70   -0.3
                 eSg    44 43.70
YLV      1.28 350 iPn    44 40.10   -0.1
EYL      1.31  17 ePn    44 40.80    0.0
KCT      1.38 313 ePn    44 42.00    0.3
EDC      1.73 307 ePn    44 47.00    0.2
      S.D. = 0.3  on   5 of   5 obs.
-------------------------------------------
?  MAY  26, 1993  10h 46m 04.76± 6.36s
    39.345 N ±44.3km   29.656 E ±24.4km
    DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)
      ML 2.7 (ISK).

DST      0.84 288 ePg    46 20.70   -0.3
                 eSg    46 32.70
YLV      1.24 350 ePn    46 27.60   -0.2
EYL      1.28  17 ePn    46 28.60    0.0
KCT      1.35 312 iPn    46 30.10    0.5
      S.D. = 0.6  on   4 of   4 obs.
-------------------------------------------
   MAY  26, 1993  11h 12m 49.04± 0.65s
   41.644 N ± 6.8km   20.706 E ± 4.5km
   DEPTH =  10.0km  (geophysicist)
 ALBANIA                            (391)
      ML 3.2 (SKO), 2.5 (TIR).

OHR      0.54 172 iPg    12 58.70   -1.2
                 iSg    13 06.10
SKO      0.64  59 iPg    13 01.10   -0.8
```

26d 11h

0.2s 137.00nm

		iSg	13	10.30	
TIR	0.70 245	ePg	13	02.70	-0.1
		iSg	13	14.50	
LACI	0.75 270	ePg	13	04.00	0.4
		iSg	13	16.50	
FNA	1.00 149	ePg	13	08.30	0.3
		eSg	13	24.68	
VAY	1.44 102	iPn	13	14.30	-0.8
		iSn	13	33.60	
TPE	1.45 202	ePn	13	21.00	5.8X
GRG	1.45 118	ePb	13	15.20	-0.1
		eSb	13	37.50	
KNT	1.72 106	ePb	13	19.76	0.6
		eSb	13	45.48	
LIT	2.05 138	ePn	13	24.90	0.9
SOH	2.16 111	ePn	13	26.10	0.5
		eSn	13	56.20	
SRS	2 23 103	ePn	13	27.00	0.3
AGG	2.90 154	ePn	13	36.16	0.1

S.D. = 0.7 on 12 of 13 obs.

& MAY 26, 1993 11h 37m 40.91s
40.828 N 119.604 W
DEPTH = 0.1km
NEVADA (37)
<GM-P>. MD 3.1 (GM).

LBFM	1.80 287	ePc	38	13.59	-0.1
		eS	38	39.50	
ORV	1.93 229	ePn	38	12.58	-2.7
		eS	38	39.37	
KVN	2.12 146	eP	38	17.96	-0.3
		eS	38	47.69	
WDC	2 25 265	ePc	38	18.07	-1.8
BONR	3 04 160	ePn	38	30.47	-1.0
		ePg	38	36.67	
		eS	39	19.54	
TNP	3 31 145	ePn	38	34.95	-0.2
DUG	5 21 95	ePn	39	01.57	-0.7
HVU	5.23 77	(P)	39	02.28	-0.2
ARUT	5.66 120	eP	39	06.82	-1.8
MSU	6 18 110	ePc	39	14.06	-1.9
DPW	7 11 8	eP	39	29.07	0.3

11 obs. associated

% MAY 26, 1993 11h 48m 00.62± 0.82s
39.085 N ± 6.8km 27.574 E ± 8.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

IZM	0 73 200	ePg	48	14.80	-0.2
		eSg	48	26.80	
DST	0 97 57	iPg	48	19.60	0.5
		eSg	48	33.60	
EZN	1 22 308	iPn	48	23.50	0.2
EDC	1 28 10	ePn	48	24.00	-0.4
KCT	1.31 27	iPn	48	24.40	-0.5
KGT	1 38 351	iPn	48	26.10	0.2

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

? MAY 26, 1993 11h 51m 21.29± 0.98s
39.138 N ± 8.5km 27.648 E ±13.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

IZM	0.80 202	ePg	51	36.80	0.0
		eSg	51	43.00	
DST	0 89 58	ePn	51	38.60	0.2
KCT	1 24 26	iPn	51	44.00	-0.3
KGT	1.34 349	ePn	51	46.10	0.2

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

? MAY 26, 1993 11h 51m 59.17±10.52s
41.124 N ±45.4km 24.389 E ±66.2km
DEPTH = 10.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)

SRS	0.60 270	ePg	52	11.40	0.1
		eSg	52	21.30	
SOH	0.84 249	ePg	52	15.40	0.0
OUR	0 85 202	iPg	52	15.26	-0.2
KNT	1 13 272	ePb	52	20.20	-0.1
		eSb	52	37.70	
PAIG	1 31 205	iPb	52	23.73	0.3

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

MAY 26, 1993 12h 39m 07.94± 1.05s
38.849 N ± 9.1km 22.406 E ± 7.0km
DEPTH = 50.5 ± 13.7 km
GREECE (364)
MD 3.4 (ATH).

AGG	0.18 341	ePg	39	15.90	-0.4
LIT	1.25 3	ePb	39	29.80	0.4
		eSb	39	50.60	
PAIG	1.46 42	ePb	39	31.60	-0.7
KZN	1.54 342	ePb	39	32.70	-0.7
		eSb	39	52.70	
VLS	1.58 245	ePb	39	35.30	1.4
IGT	1.75 294	ePn	39	35.30	-1.1
		eSn	39	59.30	
THE	1.83 13	ePn	39	38.00	0.5
OUR	1.92 39	ePn	39	38.00	-0.7
FNA	2.09 338	ePn	39	41.70	0.5
SOH	2.10 20	iPn	39	42.44	1.1
GRG	2.10 360	ePn	39	42.00	0.6
SRN	2.13 300	ePn	39	43.70	2.0
		iSn	40	06.70	
VLI	2.17 169	ePn	39	48.40	6.1X
KEK	2.20 294	ePg	39	45.70	3.0X
TPE	2.35 309	iPnc	39	48.70	3.9X
SRS	2.44 22	ePn	39	46.10	0.0
VAY	2.47 3	iPn	39	45.90	-0.6
OHR	2.57 332	iPn	39	48.00	-0.1
		i	39	51.20	
		i	40	15.40	
		i	40	18.70	
TIR	3.17 323	ePn	39	56.50	0.0
		iSn	40	40.50	
SKO	3.21 347	ePn	39	53.50	-3.6X
		i	39	57.50	
PHP	3.21 333	iPnc	39	57.20	0.1
		iSn	40	40.20	
LACI	3.47 324	ePn	40	01.10	0.4
ALN	3.47 53	ePn	39	58.00	-2.7X
LCI	3.75 295	P	40	04.50	-0.1
BRT	4.49 298	P	40	14.30	-0.8
ROI	4.59 281	P	40	15.70	-0.9
CZI	4.90 276	P	40	23.00	2.1
SOI	5.05 263	P	40	23.10	0.1
MGR	5.45 286	P	40	27.60	-1.1
ATN	5.49 265	P	40	28.30	-0.9
		eSn	41	26.90	
SGO	5.73 290	P	40	31.40	-1.2
SDI	7.16 296	P	40	52.50	-0.2
		eSn	42	08.10	
VBY	8.51 324	e(P)	41	12.50	1.3
		eS	42	38.50	
VOY	9.54 322	e(P)	41	24.50	-1.0
		e(S)	43	03.00	

S.D. = 1.0 on 29 of 34 obs.

? MAY 26, 1993 13h 12m 35.94± 9.19s
58.057 N ±78 2km 6.362 E ±29.4km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 2.4 (BER).

KMY	1.30 334	eP	12	59.50	-0.4
		eSg	13	16.33	
ODD1	1 87 4	eP	13	08.57	0.3
		eS	13	30.14	
EGD	2.30 346	eP	13	14.72	0.3
		eSg	13	44.16	
ASK	2.51 347	eP	13	17.37	0.0
		eSg	13	49.70	
NRA0	3.77 42	ePn	13	34.75	-0.6
		ePg	13	43.92	
		eSn	14	20.82	
		eLg	14	36.09	
HFS	4.32 58	eP	13	43.30	0.2
	0.1s 0.50nm				

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

% MAY 26, 1993 13h 18m 52.82± 0.53s
44.709 N ± 3 3km 7.079 E ± 5.7km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.1 (GEN).

BHB	0.19 45	P	18	57.34	0.3
		S	18	59.63	
PZZ	0.20 176	P	18	57.71	0.3
		S	19	00.64	
RRL	0.30 315	P	18	59.17	0.0
		S	19	02.74	
RSP	0.46 16	P	19	02.38	0.2
		S	19	09.15	
STV	0.50 159	P	19	02.60	-0.3
		S	19	09.29	
ENR	0.54 153	P	19	03.83	0.0
		S	19	11.35	
ROB	0.70 126	P	19	06.31	-0.4
LSD	0.75 4	P	19	07.23	-0.5
		S	19	17.72	
FIN	0.95 121	P	19	11.30	0.4
IMI	0.99 144	P	19	11.72	0.1
PCP	1.06 99	P	19	12.63	-0.2

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

% MAY 26, 1993 13h 20m 32.51± 0.75s
26.868 S ± 6.6km 26.759 E ± 6.8km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.6 (PRE).

BFS	0.04 143	iPc	20	34.20	0.3
		S	20	34.90	
PRY	0.64 96	eP	20	44.00	-1.3
		S	20	52.50	
KSR	1.01 7	eP	20	52.00	-0.2
		S	21	05.00	
SWZ	1.32 256	eP	20	57.00	-0.4
		S	21	15.00	
SEK	1.64 152	eP	21	03.00	0.7
		S	21	24.00	
SLR	1.77 51	iPd	21	05.23	1.1
		S	21	27.20	
BLF	2.29 193	eP	21	11.50	-0.2

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

• MAY 26, 1993 13h 20m 38.00± 0.90s
9.356 N ±10.3km 122.603 E ± 8.3km
DEPTH = 47.3 ± 18.2 km
4.3mb (3 obs.)
NEGROS, PHILIPPINE ISLANDS (257)

CGP	2.25 113	iPd	21	14.00	0.5
		iS	21	43.50	
PLP	2.95 52	ePd	21	22.80	-0.7
DAV	3.71 127	eP	21	52.00	17.8X
PGP	4.43 339	ePc	21	45.00	0.6
		eS	22	34.00	
TSM	6.88 223	ePc	22	19.30	0.4
KKM	7.13 243	iPc	22	21.80	-0.7
SSE	21.67 357	Pc	25	29.50	3.0X
	1.0s 21.00nm				4.5mb
		pP	25	36.00	23kmX
W82	31.33 158	eP	26	55.60	-0.7
	0.6s 3.30nm				4.3mb
WARB	35.54 174	eP	27	28.00	-4.7X
STK	44.85 157	eP	28	50.20	0.7
	0.5s 1.20nm				4.0mb

S.D. = 1.0 on 7 of 10 obs.

? MAY 26, 1993 13h 53m 15.62± 1.42s
50.471 N ±16.5km 18.878 E ± 7.4km
DEPTH = 5.0km (geophysicist)
POLAND (548)
ML 3.0 (WAR).

RAC	0.59 229	eP	53	27.00	-0.3
		eS	53	35.00	
OJC	0.64 113	iPgc	53	27.90	-0.5
		iSg	53	36.40	
SPC	1.56 145	ePn	53	45.00	0.8
		i(Sn)	54	06.20	
KSP	1.69 284	ePn	53	46.00	0.1
	0.7s 43.00nm				
		iPg	53	47.90	
		iS	54	09.80	
PRU	2.83 262	ePn	54	08.50	6.2X
		eSn	54	34.00	
		eSg	54	45.50	
BRG	3.16 279	iPg	54	15.30	B.3X
		iSg	54	55.40	
KHC	3.69 251	Pn	54	20.00	5.5X
	0.5s 2.50nm				

			Pg	54 30.00		
			eSn	54 54.50		
			Sg	55 08.00		
GEC2	3.74	246	Pg	54 23.70	8.4X	
			Sg	55 11.60		

S.D. = 1.0 on 4 of 8 obs.

& MAY 26, 1993 14h 08m 10.41s
36.155 N 117.684 W
DEPTH = 6.0km (geophysicist)
CALIFORNIA-NEVADA BORDER REGION (40)
<PAS-P>. ML 2.8 (PAS), 2.9 (GS).

VPEM	0.23	208	P	08 14.68	-0.5	
NMC	0.36	210	P	08 17.13	-0.6	
WCHM	0.42	230	P	08 18.32	-0.5	
WSHM	0.54	163	P	08 21.05	-0.3	
WORM	0.64	225	P	08 22.38	-0.9	
WBSM	0.72	211	P	08 23.81	-1.0	
ISA	0.81	233	eP	08 25.37	-1.1	
			eS	08 35.05		
WASM	0.82	240	P	08 26.10	-0.7	
WJPM	0.99	221	P	08 28.71	-0.8	
WOFM	1.04	234	P	08 29.88	-0.6	
GSC	1.11	140	ePd	08 31.27	-0.4	
			eS	08 45.76		
SNDC	1.13	207	P	08 31.23	-0.8	
BHPR	1.31	331	P	08 36.79	1.6	
TPNV	1.40	55	eP	08 37.87	1.2	
			eS	08 57.06		
CWCR	1.43	340	P	08 38.70	1.6	
MARC	1.77	230	P	08 43.70	1.9	
MCSM	1.79	327	P	08 45.59	3.3	
ABL	1.81	224	ePn	08 42.51	0.0	
MEMM	1.81	327	ePn	08 45.02	2.7	
BONR	1.86	345	ePn	08 45.31	1.9	
			ePg	08 46.68		
CRGC	1.89	242	P	08 45.43	1.8	
SSK	1.94	180	ePn	08 45.03	0.6	
			ePg	08 46.56		
TNP	1.96	11	ePn	08 46.15	1.4	
			ePg	08 48.83		
YEG	1.98	249	P	08 47.02	2.1	
BCH	2.18	244	ePn	08 48.51	0.7	
			eS	09 13.80		
PHAM	2.22	263	ePn	08 49.19	0.8	
PEC	2.30	169	ePn	08 49.15	-0.3	
SCCM	2.36	240	P	08 53.60	3.2	
CMB	2.86	312	ePn	09 00.55	3.1	
			eS	09 38.89		
PLM	2.88	166	ePn	08 56.97	-0.8	
			ePg	09 02.84		
KVN	2.91	354	ePn	09 00.93	2.6	
ARUT	3.77	63	(Pn)	09 12.31	1.8	
			ePg	09 21.89		
GLA	3 89	142	ePn	09 09.68	-2.4	
			ePg	09 26.29		
MSU	4.98	60	(Pn)	09 31.22	3.5	
			ePg	09 44.97		

34 obs. ossocioted

? MAY 26, 1993 14h 11m 12.44± 0.76s
40.117 N ±23.3km 91.525 E ±17.2km
DEPTH = 33.0km (normal)
4.4mb (6 obs.)
SOUTHERN XINJIANG, CHINA (321)

LZH	10.51	109	eP	13 45.70	1.7	
	1.2s		15.00nm		5.1mb	
	Z 15s		0.34um		5.2MszX	
			eS	15 42.50		
HFS	50.46	321	eP	20 09.10	0.4	
	0.5s		2.00nm		4.4mb	
NB2	51.43	322	P	20 16.80	0.7	
	0.6s		2.30nm		4.3mb	
CEY	54.69	303	eP	20 41.00	0.5	
			eSg	20 50.50		
MBC	62.25	8	eP	21 39.00	6.2X	
INK	66.77	17	eP	22 00.50	-1.7	
WRA	71.85	138	P	22 33.20	-0.8	
	0.6s		1.00nm		4.0mb	
WB2	71.85	138	eP	22 32.70	-1.3	
	0.7s		2.80nm		4.4mb	
BCAO	74.16	262	iPd	22 48.10	0.4	
	0.6s		3.00nm		4.5mb	

S.D. = 1.4 on 8 of 9 obs.

? MAY 26, 1993 14h 20m 21.76± 3.32s
45.597 N ±27.6km 15.736 E ±20.3km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
MD 3.0 (LJU).

PTJ	0.34	27	iPgd	20 28.50	-0.3	
			iSg	20 33.90		
VBY	0.35	255	ePg	20 28.50	-0.5	
			eSg	20 33.20		
LJU	0.95	298	e(Pg)	20 39.00	-0.9	
			eSg	20 51.90		
VOY	1.36	289	e(Pn)	20 47.90	1.1	
			eSn	21 03.80		

S.D. = 1.5 on 4 of 4 obs.

MAY 26, 1993 15h 05m 30.08± 0.72s
0.112 S ± 7.7km 123.060 E ± 7.9km
DEPTH = 182.3 ± 9.3 km
4.9mb (9 obs.)
MINAHASSA PENINSULA, SULAWESI (265)

PCI	3.32	256	iPd	06 23.60	0.4	
			iS	06 42.70		
TNE	4.37	78	iP	06 34.00	-2.6	
			iS	07 22.00		
MKS	6.21	215	iPd	07 09.50	8.8X	
AAI	6.24	125	ePd	07 01.50	0.5	
			eS	08 10.50		
TSM	6.78	310	iPc	07 08.70	0.5	
	0.3s		97.60nm		5.6mb	
CTB	7.35	9	ePc	07 17.00	1.2	
KKM	9.17	312	iP	07 43.00	3.2X	
			e	24 12.90		
TLE	11.12	120	iPd	08 07.00	1.9	
KNA	16.53	160	eP	09 11.70	-1.3	
MBL	21.16	188	iPd	10 01.60	-0.4	
	0.5s		21 00nm		4.9mb	
IPM	22.50	282	ePd	10 16.70	1.6	
WB2	22.60	151	iPd	10 15.50	-0.6	
	0.6s		108.30nm		5.6mb	
ASPA	25.67	157	iPd	10 44.10	-0.9	
	0.4s		25.00nm		5.2mb	
WARB	26.15	173	iPd	10 42.80	-6.5X	
MEEK	26.72	189	eP	10 52.70	-1.8	
STK	36.13	153	iPd	12 16.10	-0.3	
	0.5s		22.00nm		5.1mb	
LZH	40.20	336	eP	12 50.00	-0.4	
	1.4s		24.00nm		4.6mb	
ARMA	40.57	141	iPd	12 54.10	0.7	
	0.4s		8.00nm		4.7mb	
BWA	41.58	148	iPd	13 03.30	1.8	
CAN	42.57	148	iPd	13 10.30	0.7	
TOO	42.64	153	iPc	13 11.20	1.1	
	0.6s		14.00nm		4.7mb	
CNB	42.76	148	iPd	13 11.80	0.7	
	0.4s		11.00nm		4.8mb	
GUN	45.24	311	P	13 30.80	-0.6	
KKN	45.63	311	P	13 33.60	-0.8	
DMN	45.67	310	P	13 34.20	-0.5	
GKN	46.22	310	P	13 38.40	-0.6	
BUL	94.14	250	eP	18 29.80	0.0	

S.D. = 1.2 on 24 of 27 obs.

? MAY 26, 1993 15h 35m 19.74± 0.93s
14.679 N ± 8.2km 61.051 W ± 8.1km
DEPTH = 10.0km (geophysicist)
WINDWARD ISLANDS (95)
ML 1.5 (FDF).

FDF	0.11	299	iPc	35 22.59	0.0	
			S	35 27.40		
CRM	0.15	60	iPc	35 23.26	0.0	
			S	35 25.80		
BIM	0.16	187	iPc	35 23.54	0.1	
			S	35 26.30		
MVM	0 19	129	iPd	35 23.96	-0.1	
			S	35 27.10		

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

% MAY 26, 1993 16h 05m 12.88± 0.80s
26.372 S ± 6 1km 27.369 E ± 9.8km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.7 (PRE).

PRY	0.56	170	eP	05 23.50	-0.7	
			S	05 30.50		
KSR	0.66	320	eP	05 26.00	-0.1	
			S	05 34.00		
SLR	1.04	53	eP	05 33.00	0.0	
			S	05 46.50		
SEK	1.96	173	eP	05 48.00	0.8	
			S	06 11.50		
BLF	2.92	201	eP	06 01.00	0.0	
			S	06 35.00		

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

MAY 26, 1993 16h 46m 50.62± 0.54s
26.391 S ± 5.0km 27.499 E ± 7.2km
DEPTH = 5.0km (geophysicist)
4.0mb (1 obs.)
REPUBLIC OF SOUTH AFRICA (584)
ML 3.8 (PRE). mbLg 3.8 (BUL).

PRY	0.54	182	iPc	47 01.50	0.1	
			S	47 07.40		
KSR	0.75	314	iPd	47 06.50	0.6	
			S	47 15.50		
BFS	0.81	231	eP	47 07.90	0.9	
			S	47 18.10		
SLR	0.96	47	iPd	47 09.40	-0.1	
			S	47 19.80		
SEK	1.93	177	iPc	47 26.00	1.4	
			S	47 49.00		
SWZ	2.10	247	eP	47 27.90	0.9	
			S	47 53.40		
BLF	2.95	203	iPc	47 39.10	0.0	
			S	48 16.00		
FRS	3.86	209	iPc	47 52.10	0.2	
			S	48 36.00		
BUL	6.30	10	iPn	48 22.10	-4.6X	
			iSn	49 30.00		
			i	49 42.00		
			iSg	50 02.00		
CIR	6.53	36	iPn	48 30.00	0.2	
			iSn	49 43.00		
			iSg	50 10.20		
GRM	6.95	186	eP	48 34.00	-1.6	
POF	7.31	244	e(P)	48 39.00	-1.7	
			S	50 10.00		
SUR	8.34	223	eP	48 52.00	-3.3X	
			S	50 10.50		
WIN	10.21	290	eP	49 17.50	-3.6X	
			S	50 57.00		
MTD	10.29	22	iPnd	49 12.50	-9.6X	
			iSn	50 59.80		
			iSg	52 07.00		
KIC	45.14	312	P	55 09.20	-0.9	
TIC	45.53	312	P	55 12.40	-0.9	
GEC2	75.90	351	eP	58 40.50	0.6	
	1.4s		1.90nm		4.0mb	

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

% MAY 26, 1993 16h 58m 57.91± 2.33s
41.209 N ±18.4km 29.223 E ± 9.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

ISK	0.19	221	iPg	59 01.90	-0.2	
			iSg	59 05.40		
HRT	0.51	139	iPg	59 08.40	0.1	
CTT	0.60	264	iPg	59 09.70	-0.4	
YLV	0.65	170	iPg	59 10.70	-0.3	
KCT	1.16	215	iPn	59 19.90	0.2	
KGT	1.64	243	ePn	59 27.40	0.5	

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

% MAY 26, 1993 17h 54m 14.12± 0.72s
33.136 S ± 9.2km 70.457 W ±12.9km
DEPTH = 90.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)

PEL	0.19	268	iP	54 27.75	0.3	
			iS	54 38.83		
FCH	0.24	144	iP	54 27.81	-0.2	
			iS	54 39.80		
JACH	0.47	346	iP	54 28.82	-0.1	
			iS	54 41.07		
PCH	0.49	186	iP	54 29.16	0.1	
			iS	54 41.67		
ROCH	0.49	289	iP	54 29.27	0.0	
			iS	54 41.99		

26d 17h

TACH	0.65	218	iP	54	30.55	0.1
			iS	54	44.34	
CHCH	0.81	192	iP	54	32.26	0.2
			iS	54	47.29	
LCCH	0.99	250	iP	54	34.21	0.2
			iS	54	50.31	
LNV	1.14	224	iP	54	35.17	-0.6

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

% MAY 26, 1993 18h 47m 04.03± 0.67s
44.114 N ± 6.1km 7.894 E ± 4.8km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.7 (GEN).

ROB	0.18	355	P	47	08.54	0.4
			S	47	11.05	
IMI	0.20	181	P	47	08.57	0.0
			S	47	11.31	
FIN	0.25	67	P	47	09.55	0.3
			S	47	12.91	
ENR	0.36	288	P	47	11.66	0.2
			S	47	16.28	
STV	0.43	288	P	47	12.86	0.0
			S	47	18.24	
PCP	0.63	47	P	47	16.31	-0.5
PZZ	0.69	305	P	47	17.29	-0.5

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

% MAY 26, 1993 19h 06m 40.68± 0.78s
26.929 S ± 7.6km 26.746 E ± 7.5km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.6 (PRE).

BFS	0.05	49	iPd	06	42.20	0.0
PRY	0.65	90	eP	06	53.00	-0.7
			S	07	01.00	
KSR	1.07	7	eP	07	01.50	0.1
			S	07	13.50	
SWZ	1.29	258	eP	07	05.40	0.2
			S	07	23.60	
SEK	1.59	151	eP	07	11.50	1.8
			S	07	32.00	
SLR	1.82	50	eP	07	13.10	0.1
			S	07	36.30	
BLF	2.23	193	eP	07	17.50	-1.4
			S	07	45.50	

S.D = 1.2 on 7 of 7 obs.

& MAY 26, 1993 19h 11m 23.35s
37 122 N 117.736 W
DEPTH = 0.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. MD 3.9 (GM), 3.2 (PAS).
ML 4 2 (BRK), 3.6 (GS).

CWCR	0.59	309	P	11	35.30	0.2
BCKR	0.77	319	P	11	38.63	0.0
CASR	0.79	305	P	11	39.24	0.1
BONR	0.95	332	iPc	11	42.12	-0.1
CLKR	0.99	299	P	11	42.59	-0.6
TNP	1.04	23	iPd	11	44.56	0.4
MEMM	1.10	300	iPc	11	44.81	-0.1
VPEM	1.17	183	P	11	45.68	-0.6
TPNV	1.20	98	ePc	11	47.29	0.5
WCHM	1.27	193	P	11	47.14	-0.8
WORM	1.48	196	P	11	50.97	-0.4
ISA	1.57	202	ePn	11	51.84	-0.8
			eS	12	12.43	
FRI	1.58	266	iP	11	52.57	-0.2
			iS	12	12.42	
WBSM	1.61	192	P	11	53.60	0.2
KVN	1.95	352	ePn	11	58.77	0.6
			ePg	12	00.61	
			eS	12	27.13	
GSC	1.97	157	iPd	11	57.59	-0.8
BMTC	2.10	200	P	12	02.29	1.9
PKEM	2.18	242	ePn	12	01.48	0.0
			eS	12	29.62	
MSTM	2.26	291	P	12	04.84	2.2
CMB	2.29	294	iPc	12	04.94	1.8
			iS	12	34.39	
PCRM	2.40	246	P	12	05.65	1.0
PSRM	2.41	239	P	12	06.77	2.0
CTM	2.41	241	P	12	06.55	1.7
CRGC	2.47	221	P	12	07.75	2.1
PRCM	2.47	250	P	12	06.82	1.2
MRFM	2.48	298	P	12	08.69	3.0
BRMM	2.49	264	P	12	07.98	2.1
PHAM	2.50	240	ePn	12	05.27	-0.7
PMCM	2.54	238	P	12	09.72	3.1
PRI	2.55	248	ePd	12	06.49	-0.3
			eS	12	41.36	
ABL	2.57	208	ePn	12	06.86	-0.3
			ePg	12	09.56	
LLA	2.62	260	eP	12	08.19	0.5
			iS	12	43.17	
BCH	2.71	225	ePn	12	09.02	-0.1
EKH	2.79	262	P	12	10.59	0.4
PANM	2.89	243	P	12	13.44	1.9
SSK	2.91	179	ePn	12	09.41	-2.5
COSM	2.93	279	P	12	19.28	7.1
SAO	2.99	264	ePn	12	13.27	0.3
PRS	3.02	256	eP	12	11.70	-1.7
ARN	3.04	275	ePn	12	13.17	-0.5
MHC	3.12	275	ePc	12	16.45	1.5
			iS	12	58.36	
PEC	3.26	172	ePn	12	14.05	-2.7
BPRM	3.29	259	P	12	16.09	-1.1
GCC	3.41	270	eP	12	20.51	1.6
ARUT	3.48	78	ePn	12	19.53	-0.6
BKS	3.66	283	ePc	12	23.78	1.4
			iS	13	16.54	
PLM	3.83	169	ePn	12	23.89	-1.2
			ePg	12	35.95	
ORV	3.83	311	eP	12	29.62	4.7
			eS	13	21.50	
NTYM	4.10	289	ePg	12	36.73	8.0
MIN	4.42	318	eP	12	36.85	3.5
MSU	4.62	71	(Pn)	12	37.01	0.7
			ePg	12	52.44	
GLA	4.71	149	ePn	12	35.01	-2.4
DUG	4.92	50	(Pn)	12	40.20	-0.4
			ePg	12	58.18	
LBFM	5.31	324	(Pn)	12	47.66	1.6
SRU	6.02	69	ePn	12	56.14	0.0
HVU	6.03	38	ePn	12	56.82	0.7
			ePg	13	17.12	
DAU	6.04	55	(Pn)	12	57.35	1.0
			ePg	13	21.78	

57 obs. associated

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* MAY 26, 1993 19h 23m 21.44± 1.45s
4.805 S ±16.1km 131.196 E ±12.6km
DEPTH = 33.0km (normal)
4.2mb (1 obs.)
BANDA SEA (280)

TLE	1.75	118	ePc	23	50.10	0.1
AAI	3.19	290	ePd	24	10.50	0.0
			eS	25	26.50	
KNA	11.14	192	eP	26	02.00	0.5
WB2	15.36	169	eP	26	56.00	-1.5
			eS	29	45.00	
ASPA	18.93	172	iPc	27	43.60	1.2
	0.8s		13.10nm			4.2mb
MBL	19.65	213	eP	27	50.20	-0.4

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

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* MAY 26, 1993 19h 40m 22.25± 2.21s
37.304 N ±23.8km 19.958 E ± 8.7km
DEPTH = 10.0km (geophysicist)
IONIAN SEA (399)
MD 3.1 (ATH).

VLS	1.00	30	ePg	40	41.00	-0.3
IGT	2.24	7	ePn	41	00.42	0.4
			eSn	41	38.10	
KEK	2.41	357	ePg	41	06.00	3.7X
VLI	2.45	103	ePb	41	22.50	19.5X
AGG	2.54	47	ePn	41	04.70	0.5
			eSn	41	46.30	
SOI	3.19	285	P	41	13.30	-0.1
			eSn	41	49.40	
KZN	3.32	25	ePn	41	15.00	-0.3
LCI	3.41	333	P	41	22.70	6.3X
LIT	3.42	35	ePn	41	18.10	1.4
			eSn	42	08.50	
CZI	3.57	304	P	41	17.60	-1.1
ATN	3.66	285	P	41	20.30	0.1
OHR	3.86	9	ePn	41	16.70	-6.2X
GRG	4.11	27	ePn	41	26.30	-0.2
SOH	4.40	36	iPn	41	29.74	-0.8
			eSn	42	31.90	
MGR	4.46	311	P	41	32.50	1.1
KNT	4.48	30	ePn	41	31.30	-0.4
VAY	4.49	26	ePn	41	28.60	-3.3X
SRS	4.74	35	ePn	41	35.00	-0.4
SKO	4.80	13	ePn	41	44.00	7.7X

S.D. = 0.8 on 13 of 19 obs.

& MAY 26, 1993 20h 35m 32.16s
37.002 N 117.761 W
DEPTH = 0.8km
CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. MD 3.4 (GM). ML 4.0
(BRK), 3.2 (GS).

BHPR	0.65	297	P	35	45.00	-0.2
BCKR	0.85	325	P	35	48.70	-0.4
CASR	0.85	312	P	35	48.80	-0.4
CLKR	1.03	305	P	35	52.00	-0.7
BONR	1.04	336	ePc	35	52.62	-0.3
VPEM	1.05	182	P	35	53.00	0.1
MCSM	1.12	306	P	35	53.70	-0.5
MEMM	1.15	306	iPc	35	54.24	-0.2
			eS	36	08.94	
TNP	1.16	22	eP	35	55.49	0.6
TPNV	1.21	92	eP	35	56.34	0.6
			eS	36	13.73	
WORM	1.36	197	P	35	57.60	-0.6
WSHM	1.38	171	P	35	58.70	0.1
ISA	1.45	204	eP	35	58.84	-0.9
			eS	36	16.78	
FRI	1.56	270	iP	36	00.85	-0.2
			iS	36	19.94	
WOFM	1.65	208	P	36	02.90	0.3
WJPM	1.69	200	P	36	03.10	0.0
GSC	1.86	155	eP	36	05.04	-0.6
			eS	36	31.97	
PHBM	2.01	249	P	36	09.20	1.5
ARVC	2.06	205	P	36	11.70	3.3
KVN	2.06	353	ePn	36	09.06	0.5
			eS	36	38.82	
PKEM	2.11	244	eP	36	09.72	0.6
			eS	36	34.68	
MSTM	2.29	294	P	36	14.10	2.4
CMB	2.33	297	iPc	36	14.21	1.9
			eS	36	43.74	
YEG	2.37	229	P	36	15.00	2.1
MARC	2.37	213	P	36	16.20	3.3
PTRM	2.39	237	P	36	14.80	1.6
PHAM	2.42	242	(P)	36	14.59	0.9
ABL	2.45	209	ePn	36	14.95	0.7
			ePg	36	17.00	
			eS	36	45.08	
MCUM	2.47	294	P	36	16.60	2.3
PRI	2.49	251	eP	36	15.52	0.8
			eS	36	46.31	
MRFM	2.52	300	P	36	17.80	2.8
LLA	2.58	262	eP	36	17.90	2.0
BCH	2.61	227	ePn	36	16.20	-0.2
			eS	36	47.58	
MNHM	2.68	296	P	36	21.00	3.7
SSK	2.79	179	(P)	36	18.71	-0.3
SAO	2.96	267	ePn	36	22.01	0.7
PRS	2.98	258	iP	36	22.73	1.2
HSPM	3.01	273	P	36	27.30	5.4
ARN	3.03	278	ePn	36	23.67	1.4
			eS	37	02.91	
MHC	3.12	277	eP	36	24.88	1.3
			eS	37	05.23	
PEC	3.14	171	eP	36	23.49	-0.3
GCC	3.39	272	eP	36	26.96	-0.4
ARUT	3.53	76	ePn	36	29.36	-0.1
			eS	37	24.62	
PLM	3.71	168	eP	36	31.30	-0.8
ORV	3.89	312	iP	36	43.67	9.2
ORV	3.89	312	(Pn)	36	34.67	0.2
			ePg	36	43.59	
			eS	37	31.50	
GLA	4.62	148	ePn	36	43.85	-0.9
			eS	37	52.69	
MSU	4.68	69	(Pg)	37	00.15	14.3

48 obs. associated

MAY 26, 1993 20h 58m 14.85± 0.41s
31.370 S ± 4.8km 68.829 W ± 6.0km
DEPTH = 116.8 ± 7.4 km
SAN JUAN PROVINCE, ARGENTINA (137)

ZON	0.22	144	iPd	58	31.40	-0.3
			eS	58	41.40	
RTLL	0.31	83	iPc	58	31.30	-0.7
RTCV	0.55	153	iPc	58	33.00	-0.1
CFA	0.56	115	iPd	58	32.70	-0.4
RT8S	0.61	241	ePd	58	33.60	0.2
RTRS	1.31	335	iPd	58	41.00	0.8
MDZ	1.51	181	eP	58	44.10	1.5
			iS	59	03.60	
JACH	1.99	228	iP	58	49.14	0.6
			iS	59	14.84	
RTPR	2.26	62	eP	58	52.70	0.8
FCH	2.31	212	iPd	58	54.14	1.2
			iS	59	22.67	
PEL	2.37	221	iPd	58	53.59	0.2
			iS	59	22.80	
ROCH	2.44	229	iP	58	54.13	-0.5
			iS	59	23.47	
SAN	2.59	216	eP	58	55.98	-0.4
			iS	59	26.44	
PCH	2.66	212	iP	58	58.06	0.8
			iS	59	29.02	
MRA	2.85	112	e(P)	58	59.80	0.1
			S	59	27.00	
TACH	2.89	217	iP	58	59.87	-0.4
			iS	59	33.89	
CHCH	2.98	211	iP	59	01.88	0.3
			iS	59	37.18	
LCCH	3.13	227	iP	59	02.42	-1.0
			iS	59	36.99	
LNV	3.37	220	iP	59	04.94	-1.8
			iS	59	43.69	
RFA	3.40	175	iPc	59	07.00	-0.2
			S	59	41.50	
CYA	3.93	43	iPc	59	13.60	-0.7
			(S)	59	49.70	
FSA	5.82	26	iP	59	40.00	-0.1
SLA	7.24	25	ePd	59	58.80	-0.9
CNCB	14.51	3	P	01	38.60	2.2X
LPB	14.79	3	eP	01	41.00	1.3
ZOBO	15.05	3	P	01	42.80	-0.3

S.D = 0.8 on 25 of 26 obs.

• MAY 26, 1993 21h 06m 12.09± 1.72s
31.322 S ±13.2km 68.309 W ±11.3km
DEPTH = 105.7 ± 18.3 km
SAN JUAN PROVINCE, ARGENTINA (137)

CFA	0.29	168	iPd	06	27.80	0.0
			(S)	06	39.50	
ZON	0.39	235	iPc	06	27.60	-0.5
			eS	06	39.60	
RTCV	0.57	200	iPc	06	29.50	0.2
RTBS	1.03	251	e(P)c	06	34.00	0.5
RTPR	1.85	57	e(P)d	06	43.20	-0.2
			S	07	06.50	
MRA	2.47	117	e(P)	06	51.90	0.4
TCA	3.18	91	iPc	07	01.30	0.0
			S	07	37.50	
RFA	3.44	182	ePd	07	04.40	-0.4
			S	07	36.80	

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

MAY 26, 1993 22h 10m 04.52± 0.57s
36.173 N ± 5.3km 22.328 E ± 3.0km
DEPTH = 39.8 ± 6.1 km
4 2mb (21 obs.)
SOUTHERN GREECE (368)
MD 3.9 (ATH).

VLI	0.73	42	iPgc	10	16.20	-2.3
VAM	1.70	116	ePb	10	32.20	0.0
ATH	2.11	31	ePn	10	39.40	1.3
VLS	2.43	326	ePn	10	45.40	2.6X
NPS	2.82	108	ePn	10	47.10	-1.1
IGT	3.71	335	ePn	11	02.80	2.0
			eSn	11	49.18	
PAIG	3.90	15	ePn	11	04.50	1.0
LIT	3.92	2	ePn	11	06.18	2.3
KEK	4.06	331	ePn	11	07.30	1.5
			eSn	11	55.60	
KZN	4.15	354	ePn	11	09.00	1.9
PRK	4.38	44	ePn	11	09.90	-0.4
THE	4.48	6	ePn	11	13.14	1.4
IZM	4.52	59	ePn	11	14.00	1.6
FNA	4.66	351	ePn	11	15.74	1.3
			eSn	12	13.10	
SOH	4.71	10	ePn	11	16.54	1.5
GRG	4.78	1	ePn	11	17.10	1.1
EZN	4.82	40	iPn	11	15.20	-1.4
CIN	4.83	71	eP	11	17.00	0.3
KNT	5.00	5	iPn	11	19.78	0.7
SRS	5.03	11	ePn	11	20.14	0.6
OHR	5.07	347	iPn	11	20.20	0.1
VAY	5.14	2	iPn	11	21.60	0.5
SOI	5.36	293	P	11	23.70	-0.4
GRI	5.39	301	P	11	24.82	0.2
LCI	5.39	322	P	11	23.20	-1.4
MMB	5.52	11	iP	11	26.00	-0.4
GMB	5.53	293	P	11	27.64	0.9
ALN	5.54	31	ePn	11	25.98	-0.7
RDO	5.56	26	ePn	11	27.00	0.0
ROI	5.68	308	P	11	27.40	-1.3
KKB	5.72	6	iP	11	29.00	-0.2
CZI	5.78	304	P	11	30.00	0.0
KGT	5.79	41	ePn	11	28.80	-1.4
RZN	5.81	18	iP	11	30.00	-0.7
ATN	5.83	292	P	11	30.70	-0.1
			eSn	12	39.30	
SKO	5.83	353	iPnc	11	30.80	0.0
			iSn	12	38.00	
			LR	13	56.00	
KSL	5.87	88	ePn	11	32.10	0.7
TDS	5.88	308	P	11	32.00	0.6
CSI	5.97	309	P	11	34.80	2.0
MEU	6.02	281	P	11	32.60	-1.0
			eSn	12	41.30	
EDC	6.03	45	ePn	11	32.00	-1.5
ELL	6.14	82	ePn	11	36.10	0.9
BRT	6.18	321	P	11	34.90	-0.8
MNO	6.35	288	P	11	38.50	0.2
VTS	6.45	6	iP	11	40.00	0.5
BAI	6.53	321	P	11	41.00	0.4
MGR	6.64	309	P	11	41.90	-0.3
GIB	6.88	288	P	11	46.30	0.7
FAI	7.04	282	P	11	47.00	-0.7
SGO	7.04	311	P	11	47.80	0.1
DMK	7.05	35	eP	11	46.00	-1.8
DUI	8.22	314	P	12	04.70	0.4
HVAR	8.33	329	ePn	12	03.60	-2.1
			eSn	12	30.80	
SDI	8.63	312	P	12	09.20	-0.7
CSS	9.05	94	eP	12	12.40	-3.2X
			eS	13	50.00	
AQU	9.27	314	P	12	20.00	1.3
MNS	9.71	313	P	12	24.20	-0.6
ASS	10.15	316	P	12	31.40	0.6
ARV	10.27	318	P	12	31.20	-1.2
VBY	10.75	332	eP	12	36.40	-2.4X
			eS	14	32.50	
CEY	11.26	330	eP	12	44.40	-1.5
			eS	14	45.00	
HRI	11.41	101	eP	12	41.40	-6.7X
LJU	11.47	332	e(P)	12	46.50	-2.2
			e(S)	14	49.00	
VOY	11.72	330	iP	12	51.00	-1.1
			eS	14	55.00	
DSI	11.78	109	eP	12	47.70	-5.2X
SAGI	11.91	116	eP	12	50.10	-4.6X
			eS	14	50.30	
RBL	12.18	330	P	12	56.80	-1.5
FVI	12.63	328	P	13	04.70	0.6
CTI	12.72	324	P	13	04.00	-1.5
GEC2	14.16	336	Pn	13	21.80	-2.6X
KHC	14.45	336	eP	13	29.00	0.9
	0.9s		6.00nm		4.1mb	
			e	13	35.60	
PRU	14.92	340	iPd	13	39.60	5.4X
	1.0s		9.10nm		4.0mb	
KSP	15.29	345	iP	13	44.40	5.3X
			e	13	54.50	
GRF	15.74	333	ePc	13	50.30	5.4X
	Z 20s		0.10um			
BRG	15.88	340	e(P)	13	46.40	-0.3
CLL	16.54	339	e(P)	13	58.00	3.0X
	1.3s		15.00nm		4.0mb	
HAU	16.71	320	eP	13	57.50	0.3
BSD	19.61	347	iPc	14	30.30	-2.0
	0.9s		26.00nm		4.5mb	
MFF	19.76	309	eP	14	39.20	5.4X
	0.7s		7.30nm		4.1mb	
LDF	20.62	314	eP	14	42.80	-0.1
	0.6s		6.95nm		4.2mb	
LPF	20.91	312	eP	14	48.60	2.8X
	0.7s		7.60nm		4.2mb	
FLN	20.91	314	eP	14	45.40	-0.4
	0.4s		4.80nm		4.2mb	
GRR	20.96	313	eP	14	49.20	2.9X
	0.7s		4.95nm		4.0mb	
OBN	21.32	23	eP	14	44.00	-5.8X
	1.0s		17.00nm		4.4mb	
UPP	23.90	354	iP	15	14.80	-0.3
NUR	24.40	3	iP	15	18.90	-1.1
	0.5s		4.30nm		4.3mb	
HFS	24.62	350	eP	15	21.10	-1.0
	0.4s		4.40nm		4.4mb	
Z	15s		0.03um		2.9MszX	
			LR	24	40.00	
NB2	25.87	348	P	15	33.20	-0.8
	0.7s		3.40nm		4.0mb	
EKA	25.89	326	P	15	35.00	0.8
	0.8s		11.70nm		4.5mb	
KAF	26.08	4	iP	15	35.20	-0.7
	0.6s		5.10nm		4.3mb	
BCAO	31.78	187	iPd	16	28.00	0.6
	0.7s		6.00nm		4.6mb	
			id	16	30.70	
FRB	58.61	329	eP	20	01.00	1.6
	1.0s		4.00nm		4.5mb	
MBC	65.25	351	eP	20	43.50	-0.2
	0.5s		1.00nm		4.1mb	
FCC	71.70	331	eP	21	32.00	8.1X
INK	74.28	351	eP	21	40.00	1.2
YKA	75.76	341	P	21	47.50	0.0
	0.5s		0.70nm		3.9mb	
IMA	78.04	358	eP	22	01.20	1.0
	0.7s		2.62nm		4.4mb	
NEW	88.49	334	eP	22	56.00	2.0
	0.9s		3.51nm		4.7mb	

S.D. = 1.1 on 82 of 98 obs.

% MAY 26, 1993 22h 51m 16.28± 1.27s
44.421 N ± 8.4km 7.147 E ±13.9km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.5 (GEN).

PZZ	0.09	339	P	51	19.07	0.1
			S	51	20.99	
STV	0.22	144	P	51	20.95	-0.1
			S	51	24.20	
ENR	0.28	135	P	51	22.18	0.1
			S	51	26.44	
BHB	0.43	11	P	51	24.97	-0.1
			S	51	31.29	
ROB	0.53	103	P	51	27.14	0.0

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

% MAY 26, 1993 23h 15m 04.17± 2.59s
15.846 N ±10.6km 60.530 W ±22.2km
DEPTH = 10.0km (geophysicist)
LEEWARD ISLANDS (92)
ML 2.8 (FDF).

DEG	0.69	312	eP	15	17.90	0.1
			S	15	26.00	
MGG	0.76	275	eP	15	19.20	0.2
PAG	1.12	280	eP	15	25.00	-0.2
CRM	1.15	199	iPc	15	25.76	0.1
			S	15	39.60	
FDF	1.26	208	iPd	15	27.59	0.0
			S	15	43.20	
MVM	1.33	195	eP	15	28.80	0.0
			S	15	44.90	
BIM	1.42	202	eP	15	29.85	-0.2
			S	15	46.70	

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

• MAY 27, 1993 00h 10m 02.80± 1.09s
3.773 N ±10.2km 125.873 E ±19.3km
DEPTH = 139.2 ± 12.0 km
5.0mb (1 obs.)
TALAUD ISLANDS, INDONESIA (263)

MNI	2.53	204	ePd	10	45.30	1.0
			eS	11	17.00	
TNE	3.29	154	iPd	10	53.50	-0.7
			iS	11	32.00	
CGP	4.80	346	eP	11	17.50	3.3X
			eS	12	22.50	
PLP	7.40	353	ePd	11	49.20	-0.2

27d 00h

KNA 19.61 172 eP 14 21.70 -0.9
ASPA 28.37 164 iPd 15 46.00 -0.1
0.4s 12.60nm 5.0mb
eS 20 19.40
MEEK 31.04 193 eP 16 08.20 -1.4
BWA 43.53 153 iPc 17 57.30 3.0X
CAN 44.53 153 eP 18 04.60 2.2
GUN 45.01 306 P 18 06.00 -0.7
KKN 45.44 306 P 18 09.20 -0.7
DMN 45.51 306 P 18 11.80 1.3
GKN 46.05 306 P 18 14.80 0.2
TCA 150.86 161 ePKPc 29 43.20 8.2X
S.D. = 1.3 on 11 of 14 obs.

MAY 27, 1993 00h 18m 18.10± 0.61s
26.852 S ± 5.4km 26.754 E ± 6.3km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 3.4 (PRE), mbLg 3.4 (8UL).

BFS 0.05 149 iPd 18 20.90 1.2
S 18 21.90
PRY 0.65 97 iPc 18 29.50 -1.6
S 18 36.50
KSR 0.99 7 iPd 18 38.00 0.5
S 18 51.00
SWZ 1.32 255 eP 18 43.00 0.0
S 19 01.00
SEK 1.66 152 iPd 18 48.50 0.4
S 19 08.50
SLR 1.77 51 iPd 18 50.60 0.9
S 19 12.50
BLF 2.30 192 iPd 18 56.90 -0.6
S 19 24.50
FRS 3.15 203 iPd 19 08.80 -0.5
S 19 44.50
BFT 3.17 69 eP 19 10.40 0.6
S 19 50.00
BUL 6.89 15 iPn 20 01.50 -0.9
iSn 21 17.40
iSg 21 53.50
CIR 7.30 38 iPn 20 04.00 -4.0X
iSn 21 20.00
iSg 21 58.50
MTD 10.98 25 iPn 20 46.40 -12.6X
eSn 22 36.00
iSg 23 34.70
S.D. = 1.0 on 10 of 12 obs.

% MAY 27, 1993 00h 28m 45.30± 0.78s
26 845 S ± 6.9km 26.809 E ± 7.4km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.4 (PRE).

BFS 0.06 202 eP 28 47.00 0 0
PRY 0.60 98 eP 28 57.00 -0.3
S 29 04.00
KSR 0.98 5 eP 29 04.50 0.0
S 29 17.50
SWZ 1.37 255 eP 29 11.30 0.2
S 29 28.00
SEK 1.64 154 eP 29 16.00 1.0
S 29 37.00
SLR 1.72 50 iPc 29 01.70 -14.5X
S 29 39.00
BLF 2.32 194 eP 29 24.00 -0.9
S 29 50.00
S.D. = 0.8 on 6 of 7 obs.

? MAY 27, 1993 01h 00m 01.59± 1.00s
38.872 N ± 7.4km 27.227 E ±16.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

IZM 0.47 177 iPg 00 11.20 0.0
eSg 00 17.20
EZN 1.18 324 ePn 00 24.00 0.4
KGT 1.58 2 ePn 00 28.70 -0.9
KCT 1.63 32 ePn 00 31.00 0.6
S.D = 1.2 on 4 of 4 obs.

? MAY 27, 1993 01h 19m 35.19± 9.12s
43.495 N ±59.4km 7.902 E ±19.1km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
ML 1.5 (GEN).

IMI 0.42 359 P 19 43.76 0.1
S 19 46.67
FIN 0.75 17 P 19 49.94 0.1
S 19 56.85
ROB 0.80 358 P 19 50.53 -0.2
S 19 57.27
ENR 0.81 335 P 19 51.13 0.2
S 19 58.82
STV 0.86 331 P 19 51.68 -0.1
S 20 00.19
S.D. = 0.2 on 5 of 5 obs.

* MAY 27, 1993 01h 20m 11.36± 1.09s
23.617 S ±12.0km 66.780 W ±11.4km
DEPTH = 226.1 ± 12.7 km
JUJUY PROVINCE, ARGENTINA (128)

HJA 1.32 73 ePd 20 46.00 -0.3
S 20 50.50
SLA 1.61 134 iPd 20 49.30 0.4
S 21 17.70
YJA 1.86 40 iPc 20 51.00 -0.4
MOCB 2.58 24 P 20 59.00 0.3
ANT 3 33 268 iP 21 06.50 -0.2
iS 21 46.20
CNCB 6.86 350 P 21 53.00 1.7
LPB 7.16 350 (P) 22 03.00 8.1X
ZOBO 7.42 350 P 21 57.00 -1.4
VAO 18.21 92 eP 24 10.10 -0.1
S.D. = 1.2 on 8 of 9 obs.

% MAY 27, 1993 01h 20m 47.31± 1.35s
38.837 N ± 8.4km 26.856 E ±14.1km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
ML 2.8 (ISK).

IZM 0.54 144 ePg 20 58.20 -0.1
EZN 1.07 338 iPn 21 07.80 0.4
DST 1.58 60 ePn 21 15.90 0.5
KGT 1.65 12 iPn 21 15.70 -0.7
EDC 1.70 27 ePn 21 17.00 -0.1
KCT 1.83 39 ePn 21 19.00 0.0
S.D. = 0.5 on 6 of 6 obs.

MAY 27, 1993 03h 51m 29.24± 1.04s
38.718 S ± 7.4km 178.100 E ±10.4km
DEPTH = 32.0 ± 6.6 km
OFF E. COAST OF N. ISLAND, N.Z. (160)
ML 3.7 (WEL).

NOZ 0.11 334 Pc 51 34.60 -0.3
MAHZ 0.50 200 P 51 40.40 0.6
PUZ 0.66 11 Pd 51 42.10 0.0
S 51 52.20
PAHZ 0.83 260 P 51 44.10 -0.5
MOH 0.85 241 P 51 45.30 0.4
URZ 0.90 300 P 51 45.20 -0.4
S 51 58.10
HBZ 1.13 8 P 51 48.90 0.1
WHH 1.26 262 eP 51 51.80 0 9
TAZ 1.34 291 P 51 52.80 1.0
WAHZ 1.67 234 eP 51 55.70 -1.0
NGZ 2.00 256 eP 52 00.90 -0.7
MNG 2.77 226 P 52 09 00 -3.4X
eS 52 41.00
S.D. = 0.8 on 11 of 12 obs.

MAY 27, 1993 03h 54m 05.90± 1.19s
51.527 N ±11.6km 16.151 E ± 5.7km
DEPTH = 10.0km (geophysicist)
POLAND (548)
ML 3.6 (VIE), 3.6 (GRF).

KSP 0.69 172 iPd 54 19 20 -0.4
0.5s 133.00nm
iS 54 27.80
BRG 1.53 246 iPn 54 34.00 0.7
iPg 54 34.70
iSg 54 55.20
PRU 1.85 214 Pn 54 37.70 -0.2
Pg 54 39.80
i 54 43.40
Sn 54 56.20
eSg 55 02.20

RAC 1.94 137 ePg 54 44.00 4.8X
eSg 55 08.00
CLL 1.98 265 iPn 54 39.30 -0.5
ePg 54 43.00
iSg 55 09.70
OJC 2.66 118 eP 54 47.80 -1.7
iS 55 31.20
KHC 2.91 216 Pn 54 52.90 -0.2
0.5s 8.00nm
Pg 55 00.60
Sn 55 27.50
Sg 55 36.80
HOF 2.96 247 iPnc 54 53.50 -0.4
MOX 2.99 255 ePn 54 54.70 0.5
ePg 55 02.40
iSg 55 42.70
GEC2 3.11 211 Pn 54 56.20 0.2
Pg 55 02.70
Sg 55 42.50
WET 3.17 223 iPnc 54 57.10 0.3
VKA 3.27 178 iPgc 55 06.90 8.7X
i 55 48.20
iSg 55 50.40
ZST 3.39 169 iP 55 09.40 9.5X
e 55 52.70
SPC 3.51 130 e(Pn) 55 04.00 2.2
i 55 14.60
e 55 16.40
GRF 3.64 242 ePnc 55 03.50 0.1
ePg 55 15.50
eSg 56 02.20
SOP 3.86 176 eP 55 46.00 39.5X
KBA 4.82 203 iPnc 55 19.90 -0.4
0.5s 8.50nm
i 56 26.00
i 56 33.90
i 56 40.30
i 56 43.30
i 56 55.70
WATA 5.15 217 iPnc 55 24.80 -0.1
WTTA 5.19 216 iPnc 55 25.10 -0.4
0.6s 7.70nm 4.5mb X
i 56 40.90
i 56 51.50
i 56 56.80
SQTA 5.38 219 iPnd 55 28.50 0.2
OGA 5.75 218 iPd 55 33.80 0.3
S.D. = 0.8 on 17 of 21 obs.

? MAY 27, 1993 04h 21m 33.77± 2.06s
36.019 S ±15.5km 178.525 E ±21.4km
DEPTH = 255.2 ± 11.4 km
3.7mb (1 obs.)
OFF E. COAST OF N. ISLAND, N.Z. (160)

HBZ 1.59 186 P 22 12.00 -1.5
S 22 42.10
PUZ 2.06 186 P 22 17.10 -0.4
S 22 52.90
KUZ 2.38 251 P 22 17.60 -2.9
URZ 2.51 206 P 22 21.80 0.1
S 23 00.90
NOZ 2.62 188 P 22 23.80 0.9
WLZ 2.99 231 P 22 27.70 0.9
PAHZ 3.07 202 P 22 28.80 1.1
MOH 3.29 199 P 22 31.40 1.2
MOZ 3.87 229 P 22 39.60 2.9
NGZ 3.92 216 P 22 38.80 1.4
CNZ 3.96 216 eP 22 39.40 1.5
WAHZ 4.05 204 P 22 39.50 0.6
TEHZ 4.19 198 eP 22 40.20 -0.3
MNG 5.18 207 P 22 52.20 -0.2
S 23 57.20
KIW 5.61 209 eP 22 57.60 -0.1
MTW 5.65 204 P 22 57.90 -0.3
CAW 5.76 207 P 22 59.20 -0.4
MOW 5.97 204 P 23 01.90 -0.3
DIW 5.99 216 P 23 02.10 -0.3
MRW 6.00 209 P 23 02.20 -0.4
eS 24 16.30
TCW 6.16 211 P 23 04.00 -0.5
ORZ 6.72 223 P 23 10.70 -0.9
THZ 7.22 216 P 23 17.50 -0.4
KHZ 7.47 210 P 23 20.60 -0.4
DSZ 7.76 220 eP 23 23.70 -1.0
LTZ 8.31 214 eP 23 31.80 0.1
MOZ 8.91 209 eP 23 38.40 -0.8

```
BWZ     10.76 215 eP     24 02.10  -0.5
WRA     41.80 280 P      29 01.10   0.9
        0.5s      1.50nm          3.7mb
      S.D. = 1.1  on  29 of  29 obs.
-------------------------------------
   MAY 27, 1993  04h 37m 30.71± 0.78s
   11.578 N ± 5.5km   61.029 W ±10.6km
   DEPTH =  10.0km  (geophysicist)
 WINDWARD ISLANDS                (95)
      MD 2.9 (TRN).

8OT      0.51 143 eP     37 40.88  -0.2
                  eS     37 49.07
GRW      0.85 313 eP     37 48.00   0.9
                  eS     38 01.79
TRN      0.99 202 eP     37 48.74  -0.8
                  eS     38 01.84
TBH      1.09 182 eP     37 52.65   1.5
                  eS     38 06.54
TCE      1.13 219 eP     37 51.14  -0.7
                  eS     38 05.67
SVB      1.70 353 eP     38 00.27  -0.3
                  eS     38 20.86
SVV      1.74 354 eP     38 00.73  -0.4
                  eS     38 21.52
      S.D. = 1.1  on   7 of   7 obs.
-------------------------------------
?  MAY 27, 1993  04h 38m 58.08± 3.01s
   38.626 N ±20.6km   26.763 E ±27.3km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                      (365)
      ML 3.1 (ISK).

IZM      0.45 120 iPg    39 07.30   0.0
                  iSg    39 14.30
EZN      1.25 344 iPn    39 21.30   0.1
KGT      1.87  13 iPn    39 30.10  -0.3
KCT      2.04  37 ePn    39 33.00   0.2
      S.D. = 0.3  on   4 of   4 obs.
-------------------------------------
   MAY 27, 1993  04h 47m 20.76± 0.13s
   17.666 S ± 4.5km  178.837 W ± 3.9km
   DEPTH = 563.4km  ( 14 depth phases)
   5.2mb ( 44 obs.)
 FIJI ISLANDS REGION             (181)

VUN      2.59 262 eP     48 36.60   1.5
SVA      2.61 260 eP     48 36.60   1.4
BKM     12.32 268 iP     50 08.50   5.6X
                  iS     52 27.56
DZM     14.52 250 iPd    50 26.00   1.0
                  iS     52 56.90
KUZ     19.61 193 P      51 14.10   0.5
HBZ     20.02 187 P      51 13.00  -4.4X
                  e      52 39.60
WLZ     20.71 193 P      51 23.80   0.0
URZ     20.82 189 P      51 20.40  -4.4X
NOZ     21.05 187 P      51 24.40  -2.5X
MNG     23.39 191 eP     51 43.70  -4.4X
KIW     23.74 192 eP     51 49.60  -1.6X
DIW     23.89 194 P      51 50.30  -2.2X
CAW     23.95 191 P      51 49.70  -3.3X
MRW     24.13 192 P      51 51.60  -3.1X
SNZO    24.21 192 ePc    51 51.34  -4.0X
        0.9s    140.47nm          5.6mb
                  e      53 22.56
ORZ     24.25 196 P      51 54.20  -1.6X
THZ     25.04 195 P      51 59.90  -2.9X
DSZ     25.31 197 P      52 02.40  -2.7X
KHZ     25.51 193 P      52 03.70  -3.1X
LTZ     26.16 195 P      52 09.20  -3.4X
BWZ     28.41 197 P      52 29.10  -3.0X
        0.4s     60.00nm          5.6mb
ODZ     28.68 196 P      52 31.50  -3.0X
LRCZ    29.05 197 P      52 35.20  -2.7X
MHZ     29.07 197 P      52 35.30  -2.7X
SBCZ    29.09 197 P      52 35.40  -2.7X
LSCZ    29.10 197 P      52 35.50  -2.6X
CMCZ    29.15 197 P      52 36.30  -2.4X
TLC     29.25 198 P      52 37.70  -1.8X
ARMA    29.71 239 iPd    52 44.10   0.4
        0.5s    130.00nm          5.8mb
TUZ     29.80 196 Pc     52 42.80  -1.2
        0.7s    269.00nm          6.0mb
RIV     31.30 233 iPd    52 57.20   0.3
CTA     33.08 260 iPd    53 12.00  -0.1
        1.0s     50.00nm          5.1mb

                  i      53 25.20
                  i      54 45.00
CTAO    33.08 260 ePc    53 10.55  -1.5
        0.7s     71.94nm          5.4mb
CNB     33.25 232 iPc    53 14.10   0.7
        0.9s    318.00nm          5 9mb
                  iScP   58 34.20
CAN     33.53 232 iPd    53 16.00   0.3
BWA     33.63 234 iPd    53 14.90  -1.7
OLP     35.24 249 iPd    53 30.30   0.3
MDG     36.72 285 iPd    53 45.30   3.1X
TOO     37.01 230 iPd    53 45.10   0.7
        0.9s    463.00nm          6.1mb
                  epP    55 32.50
                  iScP   58 47.20
ADE     41.43 237 iPd    54 20.70   0.5
KIP     43.88  29 (P)    54 39.52   0.1
        1.1s    110.89nm          5.3mb
WRA     44.27 259 P      54 42.20  -0.5
        0.6s     26.40nm          4.9mb
ASPA    44.47 254 iPd    54 44.10   0.0
        0.8s    690.10nm          6 2mb X
                  iS     00 36.70
                  iScS   03 40.30
GUA     47.34 309 eP     55 06.30   0.2
        0.8s    376.12nm          6.0mb
GUMO    47.41 309 eP     55 06.19  -0.4
        0.7s    236.72nm          5.8mb
PJG     47.41 309 eP     55 06.40  -0.2
KNA     50.09 264 iPd    55 26.40  -0.2
WARB    50.98 250 iPd    55 25.30  -7 8X
M8L     57.64 256 iPd    56 19.00  -0.9
MEEK    58.14 249 iPd    56 22.00  -1 3
        0.4s     35.00nm          5.0mb
WKYJ    67.40 320 P      57 23.00   0.7
OFUJ    67.46 328 P      57 21.90  -0.6
MAT     67.47 324 iPc    57 22.30  -0 3
        0.8s     47 01nm          5 1mb
                  eS     05 36.00
YAMJ    67.64 326 iPd    57 24.20   0.6
TKSJ    68.20 319 P      57 27.70   0.6
KUSJ    69.12 332 P      57 32.00  -0.4
ADK     69.28   1 iPc    57 31.05  -2.1
        0.6s     87 13nm          5.5mb
YONJ    69.36 320 P      57 34.40   0.4
SMY     70.37 355 eP     57 37.03  -2.5X
        0.8s    334.39nm          5.9mb
ASAJ    70.85 332 P      57 43.90   1.3
SKR     71.52 343 eP     57 45.40  -0.9
        1.2s    400.00nm          5.8mb
                  e      06 59.00
LEM     72.31 268 ePd    57 52.50   0.6
SAO     76.54  44 eP     58 14.88   0.1
        0.8s     58.50nm          5.1mb
BCH     76.58  46 ePc    58 15.48   0.3
                  epP    00 14.89 564km
BKS     76.65  43 ePc    58 15.54   0.2
        1.0s     70.00nm          5.1mb
PHAM    76.72  45 eP     58 15.61  -0.2
MHC     76.73  43 iPc    58 16.39   0.4
        1.2s     90.00nm          5 1mb
ARN     76.81  44 eP     58 16.51   0.2
A8L     76.99  47 ePc    58 17.58   0.0
                  epP    00 15.84 556km
SSK     77.73  48 ePc    58 21.51   0.0
PLM     77.88  49 eP     58 22.04  -0.3
                  (pP)   00 20.57 556km
PEC     77.94  48 eP     58 20.96  -1.5
        0.5s     23.92nm          4.9mb
                  epP    00 22.80 575kmX
CMB     77.94  43 ePc    58 22.30  -0.1
        1.0s     70 00nm          5.0mb
ISA     77.94  46 iPc    58 22.72   0.3
        0.8s     53.13nm          5 0mb
WDC     78.02  40 eP     58 22.50  -0 2
        1.4s     75.46nm          4.9mb
ORV     78.08  42 eP     58 22.62  -0.4
                  epP    00 23.52 569km
MIN     78.47  41 ePc    58 24.65  -0.6
MEMM    78.70  44 eP     58 26.10  -0.1
L8FM    78.87  40 iPc    58 27.55   0.2
                  iPP    00 28.54
GSC     78.92  47 eP     58 26.91  -0.7
                  epP    00 28.34 571km
DBO     79.10  38 P      58 28.74   0.4
GLA     79.21  50 iPd    58 29.77   0.6
                  epP    00 29.42 559km

BONR    79.28  44 iPc    58 30.04   0.3
                  ipP    00 32.22 574kmX
RNO     79.29  37 P      58 29.83   0.5
HSO     79.43  38 P      58 30.74   0.6
VIP     79.50  42 P      58 40.92  10.2X
MPOR    79.76  37 P      58 32.57   0.8
KVN     80.00  44 eP     58 33.34   0.0
                  ePcP   58 38.45
                  epP    00 35.18 571km
TNP     80.07  45 iPc    58 33.34  -0.4
        0.8s     38.54nm          4.9mb
                  epP    00 34.19 565km
TPNV    80.15  46 eP     58 34.27   0.2
        0.6s     14.63nm          4.6mb
KMOR    80.48  36 P      58 35.91   0.5
SSOR    80.59  37 P      58 36.13   0.0
RSO     80.66  13 eP     58 34.85  -1.4
SVW     80.68  11 eP     58 35.16  -1.0
        0.8s     43.92nm          5.0mb
BPO     80.91  37 P      58 38.12   0.2
ONR     81.08  35 P      58 39.23   0.8
BMW     81.13  35 P      58 38.98   0.2
VBEM    81.21  37 P      58 39.44   0.1
MGD     81.31 345 iPc    58 38.50  -0.8
        0.8s     70.00nm          5.2mb
VLL     81.39  37 P      58 40.50   0.3
MTMW    81.43  36 P      58 40.07  -0.3
VIPM    81.45  38 P      58 40.92   0.3
CPW     81.48  35 P      58 41.10   0.6
SHW     81.51  36 P      58 41.78   1.0
CROR    81.51  37 P      58 40.86   0.1
ERK     81.52  36 P      58 41.40   0.6
TDL     81.62  36 P      58 41.98   0.6
ASR     81.85  36 P      58 42.67   0.2
TUC     81.88  53 iPc    58 43.98   1.1
        0.9s     39.81nm          4.9mb
STW     81.91  34 P      58 43.28   0.7
LON     82.08  36 P      58 43.40  -0.1
TTA     82.31  10 iPc    58 44.09  -0.3
                  pP     00 45.08 561km
JBO     82.45  37 P      58 45.60   0.2
ARUT    82.50  47 (P)    59 04.78  18.8X
MCW     82.68  34 P      58 46.94   0.5
EBG     82.86  36 P      58 47.79   0.3
JCW     82.87  34 P      58 47.59   0.2
BJI     83.33 316 eP     58 51.00   1.2
        1.5s     92.00nm          5.1mb
                  eS     08 16.00
WAH2    83.34  37 P      58 50.07   0.3
LNOR    83.59  38 P      58 50.87  -0.2
WTV     83.66  36 P      58 51.28  -0.1
MAW     83.95 200 iPd    58 53.10   0.6
        0.6s     43.60nm          5.3mb
SAW     83.97  36 P      58 52.84  -0.1
DUG     84.09  45 eP     58 53.09  -0.8
        1.3s     19.13nm          4.6mb
                  ipP    00 54.52 560km
DPW     84.73  36 iPc    58 56.61  -0.1
HVU     84.89  43 ePc    58 58.05   0.4
SRU     85.15  47 iPc    58 59.12   0.1
                  epP    01 01.97 566km
DAU     85.25  45 eP     58 59.30  -0.4
                  iPP    02 26.08
ILT     85.32   0 iPc    58 58.40  -0.5
                  e      02 33.00
                  eS     08 40.00
NEW     85.56  36 eP     58 59.83  -0.8
        1.0s     73.21nm          5.3mb
IMA     85.60  10 P      59 00.72   0.1
        1.2s     13.87nm          4.5mb
FBA     85.66  13 iPc    58 59.21  -1.5
        0.9s     47.13nm          5.2mb
LTX     86.21  58 iPc    59 04.01  -0.2
                  e      59 13.73
                  epP    01 06.92 565km
LRM     87.05  40 iPc    59 08.00  -0.1
                  e      01 11.60
                  e      02 39.70
BW06    87.46  44 iPc    59 09.58  -0.5
        0.5s     16.39nm          5.1mb
                  ipP    01 11.80 559km
                  i      02 42.52
GOL     89.00  48 eP     59 17.60   0.3
        1.1s     41.79nm          5.3mb
                  epP    01 21.60 566km
LZH     90.42 308 Pc     59 24.70   0.9
        1.2s     52.00nm          5.4mb
```

27d 04h

		pP	59	53.00	107kmX	
		PP	03	24.00		
CIT	90.69	325 eP	59	26.00	1.5	
NVL	91.49	184 iPd	59	27.00	-0.9	
	1.0s	35.00nm			5.3mb	
INK	91.76	15 eP	59	29.00	0.0	
	1.0s	19.00nm			5.1mb	
SNA	92.22	179 iPd	59	31.00	-0.2	
	0.8s	131.34nm			6.0mb	
ACO	92.43	52 iPc	59	32.80	0.0	
BOD	93.18	330 eP	59	34.90	-0.8	
	1.2s	13.00nm			4.9mb	
YKA	94.28	25 eP	59	39.90	-0.8	
	0.9s	12.60nm			5.1mb	
TIK	95.81	345 iPc	59	46.00	-1.4	
ZAK	95.94	321 iPd	59	48.80	0.5	
ULM	98.99	40 eP	00	04.00	1.8	
MBC	100.19	12 ePdiff	00	06.50	-0.5	
	0.6s	2.00nm			4.7mb	
FCC	102.24	32 ePdiff	00	36.50	20.1X	
LMN	119.15	47 ePKP	05	09.00	1.6	
CIR	131.35	219 iPKPd	05	32.90	1.4	
		i	08	07.20		
BUL	133.77	217 ePKP	05	34.30	-2.0	
		iSKP	08	13.40		
OBN	133.89	332 ePKP	05	36.00	0.8	
	1.0s	17.00nm				
MTD	134.51	223 iPKPd	05	30.50	-7.2X	
		i	08	09.50		
NB2	136.09	353 PKP	05	28.00	-11.3X	
	0.6s	0.80nm				
HFS	136.63	351 ePKP	05	26.30	-14.0X	
	0.4s	1.30nm				
EKA	142.26	4 PKP	05	46.00	-4.5X	
	0.7s	7.00nm				
DMU	143.30	8 iPKPc	05	49.70	-2.6X	
	1.0s	174.00nm				
KAS	143.43	317 iPKPc	05	52.70	-0.4	
DCN	143.79	9 iPKPc	05	51.50	-1.7	
	0.8s	119.00nm				
DLF	143.94	8 iPKPc	05	52.00	-1.4	
	1.0s	197.00nm				
WME	144.09	6 ePKPc	05	51.90	-1.8	
YRC	144.21	6 ePKPc	05	52.70	-1.2	
	1.1s	52.00nm				
ETA	144.57	8 ePKP	05	54.10	-0.4	
YPH	144.61	6 ePKPc	05	53.80	-0.8	
VAL	144.63	12 iPKP	05	54.70	0.1	
UZH	144.65	336 iPKPc	05	55.70	0.9	
	1.0s	250.00nm				
WIT	144.66	354 ePKP	05	55.50	0.8	
KSP	144.76	343 iPKP	05	55.00	0.0	
	0.8s	120.00nm				
		i	06	03.50		
		i	08	42.80		
ECB	144.81	8 ePKP	05	54.80	-0.1	
	1.1s	551.00nm				
RAC	144.88	341 ePKP	05	56.00	0.8	
SPC	144.96	338 iPKP	05	55.70	0.1	
		epPKP	08	45.00		
ECP	145.05	8 ePKP	05	55.40	0.1	
	0.9s	192.00nm				
CLL	145.14	347 iPKP	05	55.20	-0.3	
	1.1s	145.00nm				
HCG	145.21	5 ePKPc	05	55.90	0.2	
HRI	145.32	303 ePKP	05	58.00	1.4	
BRG	145.33	346 iPKPc	05	55.60	-0.3	
	1.0s	80.00nm				
WTS	145.46	354 ePKP	05	56.00	0.0	
	0.7s	69.90nm				
HTR	145.48	5 ePKPc	05	56.70	0.6	
HAE	145.58	4 ePKPc	05	56.80	0.6	
	1.2s	79.00nm				
PRU	146.00	345 iPKPc	05	58.60	1.6	
	1.1s	72.50nm				
		i	06	01.20		
CSS	146.61	307 ePKP	06	01.00	2.5X	
PRNI	146.75	299 ePKP	06	02.00	3.1X	
ENN	146.76	354 ePKP	06	01.00	2.8X	
	0.8s	33.30nm				
		i	06	04.00		
SRO	146.81	339 iPKP	06	01.80	3.5X	
UCC	146.85	356 PKP	06	02.00	3.7X	
ZST	146.88	340 ePKP	05	58.40	-0.1	
		i	06	01.70		
		e	08	21.30		
TNS	147.00	351 ePKPc	06	01.70	3.0X	
		i	06	04 60		
GRF	147.04	348 ePKP	05	55.60	-3.1X	
		ic	06	02.30		
		e	06	05.10		
KHC	147.04	345 PKP	05	58.70	-0.1	
	1.0s	35.50nm				
		i	06	02.00		
		e	06	17.00		
SAGI	147.06	299 ePKP	06	02.60	3.2X	
SNF	147.14	356 iPKPc	06	01.82	3.1X	
		ic	06	04.89		
WET	147.19	346 iPKPc	06	02.50	3.5X	
GEC2	147.27	345 ePKP	05	58.80	-0.4	
	1.0s	3.29nm				
		e	06	02.50		
		e	06	05.60		
SOP	147.51	340 iPKPd	06	03.60	4.1X	
DOU	147.53	356 PKPc	06	03.10	3.7X	
	0.9s	170.00nm				
WLF	147.83	354 iPKPc	06	01.16	1.3	
	1.3s	116.50nm				
		ic	06	04.08		
KMR	147.89	344 iPKP+	06	04.30	4.2X	
LANF	148.30	352 PKP	06	04.99	4.2X	
HOFF	148.32	351 PKP	06	05.32	4.6X	
FUR	148.48	347 iPKPc	06	05.70	4.7X	
		i	06	11.40		
BHG	148.52	345 iPKPc	06	05.50	4.4X	
		i	06	11.90		
WLS	148.92	352 PKP	06	06.31	4.6X	
CDF	148.93	352 PKP	06	06.42	4.6X	
FLN	148.95	2 ePKP	06	01.10	-0.6	
	1.2s	24.10nm				
KBA	149.00	344 iPKPc	06	01.20	-0.9	
		i	06	06.00		
		i	06	10.20		
		i	06	13.70		
		e	08	12.00		
		e	09	40.00		
ECH	149.14	352 PKP	06	06.29	4.2X	
WTTA	149.25	346 iPKPc	06	01.70	-0.8	
		i	06	07.40		
		i	06	11.10		
		i	06	14.60		
		i	06	39.80		
		i	07	27.90		
VITF	149.27	354 PKP	06	07.20	5.0X	
MOTA	149.29	347 iPKPc	06	01.50	-1.0	
		i	06	07.10		
		i	06	14.40		
FEL	149.35	351 PKP	06	07.30	4.8X	
SLE	149.38	350 ePKPc	06	07.30	4.9X	
SOTA	149.39	346 iPKPc	06	01.70	-0.9	
		i	06	07.60		
		i	06	14.90		
HAU	149.44	353 ePKP	06	02.00	-0.5	
	0.9s	6.20nm				
MOF	149.50	352 PKP	06	07.50	4.8X	
R8L	149.52	343 PKP	06	06.90	4.2X	
BSF	149.56	353 PKP	06	07.74	4.9X	
FVI	149.59	344 PKP	06	07.20	4.5X	
LJU	149.60	341 ePKP	06	02.60	-0.2	
		ePKPbc	06	08.00		
ZLA	149.68	350 ePKPc	06	08.10	5.2X	
SRS	149.71	325 ePKP	06	06.54	3.4X	
OGA	149.76	347 ePKPc	06	03.90	0.6	
		i	06	09.00		
VOY	149.80	342 iPKP	06	08.20	5.0X	
		ePKPab	06	15.20		
BBS	149.83	351 PKP	06	08.62	5.5X	
VBY	149.85	340 ePKP	06	08.00	4.8X	
CEY	149.91	341 ePKP	06	08.20	4.9X	
OUR	150.02	324 iPKP	06	07.86	4.3X	
LOMF	150.03	352 PKP	06	09.18	5.7X	
SOH	150.04	325 ePKP	06	08.02	4.4X	
KNT	150.05	326 ePKP	06	07.82	4.2X	
VAY	150.11	327 iPKP	06	08.20	4.5X	
	0.8s	51.00nm				
		i	06	18.00		
OSS	150.12	348 ePKPc	06	09.80	6.0X	
TRI	150.13	342 ePKP	06	08.90	5.4X	
LLS	150.17	349 ePKPc	06	09.60	5.7X	
SKO	150.21	329 iPKPc	06	09.50	5.7X	
	0.9s	68.00nm				
		i	06	19.00		
RIY	150.27	341 iPKPc	06	09.20	5.4X	
CTI	150.39	345 PKP	06	09.40	5.3X	
LOR	150.39	356 ePKP	06	03.70	-0.3	
	0.9s	5.55nm				
GRG	150.46	326 ePKP	06	09.10	4.8X	
PAIG	150.47	323 iPKP	06	08.82	4.6X	
SSF	150.62	357 ePKP	06	04.10	-0.2	
	0.7s	3.10nm				
LBF	150.67	356 ePKP	06	04.20	-0.2	
	1.1s	7.35nm				
TMA	150.93	349 ePKPc	06	11.10	6.1X	
LIT	151.02	325 ePKP	06	10.06	4.9X	
FNA	151.12	327 ePKP	06	11.17	5.9X	
MFF	151.12	2 ePKP	06	04.60	-0.4	
	0.9s	9.00nm				
MMK	151.14	350 iPKPc	06	12.40	7.0X	
OHR	151.17	328 iPKP	06	11.00	5.6X	
	0.6s	84.00nm				
DIX	151.19	351 ePKPc	06	12.60	7.1X	
EMS	151.27	352 ePKPc	06	12.50	7.0X	
TCF	151.45	358 ePKP	06	05.20	-0.4	
	1.2s	10.70nm				
LSF	151.50	359 ePKP	06	04.90	-0.7	
	1.0s	9.00nm				
RSL	151.69	352 PKP	06	13.54	7.4X	
LSD	151.84	351 PKP	06	13.83	7.4X	
LPL	151.84	352 ePKP	06	06.60	0.2	
	0.9s	4.60nm				
LPG	151.86	352 ePKP	06	06.80	0.3	
	1.1s	6.10nm				
RSP	152.12	351 PKP	06	14.29	7.6X	
RRL	152.42	351 PKP	06	15.07	7.8X	
BHB	152.43	351 PKP	06	13.14	6.2X	
RJF	152.44	359 ePKP	06	06.70	-0.3	
	0.8s	4.85nm				
PCP	152.50	349 PKP	06	13.74	6.6X	
FIR	152.61	344 ePKP	06	08.50	1.3	
PZZ	152.78	351 PKP	06	14.43	6.8X	
ROB	152.86	349 PKP	06	14.61	6.9X	
FIN	152.88	349 PKP	06	15.80	8.1X	
STV	153.00	350 PKP	06	14.56	6.7X	
ENR	153.00	350 PKP	06	14.11	6.2X	
IMI	153.23	349 PKP	06	15.75	7.6X	
BCAO	158.50	234 iPKPc	06	15.10	-0.6	
	0.5s	20.00nm				
		ic	06	54.80		
		id	09	54.00		

S.D. = 0.8 on 170 of 269 obs.

& MAY 27, 1993 05h 03m 50.84s
50.427 N 130.235 W
DEPTH = 10.0km (geophysicist)
3.5mb (1 obs.)
VANCOUVER ISLAND REGION (25)
<PGC-P>. ML 3.5 (PGC).

HOLB	1.36	80 iPnc	04	13.57	-2.3
		Sn	04	29.99	
BPBC	1.60	99 Pn	04	16.69	-2.6
PHC	1.81	80 ePnc	04	20.05	-2.2
		Sn	04	41.06	
EDB	2.08	104 ePn	04	23.70	-2.5
ETB	2.61	112 ePn	04	31.52	-2.2
GDR	2.78	102 ePn	04	33.38	-2.8
CBB	3.15	95 Pnc	04	39.78	-1.6
BTB	3.19	106 Pnc	04	40.13	-2.0
OZB	3.41	114 ePn	04	42.58	-2.6
PFB	4.21	114 Pn	04	55.49	-1.0
WPB	4.59	97 ePn	05	00.08	-1.8
HNB	5.09	100 ePn	05	08.08	-0.8
MCW	5.13	107 eP	05	09.17	-0.3
LON	6.69	120 eP	05	31.21	-0.4
YKA	14.80	29 eP	07	16.70	-5.0
	0.8s	1.20nm			3.5mb

15 obs. associated

MAY 27, 1993 05h 10m 50.57± 0.21s
16.827 S ± 5.9km 173.856 W ± 5.5km
DEPTH = 133.1km (11 depth phases)
5.0mb (32 obs.)
TONGA ISLANDS (173)
Mw 5.3 (HRV).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 26S, 31C
Centroid Locotion:
Origin Time 05:10:55.7 0.8
Lot 16.61S 0.08 Lon 173.71W 0.07
Dep 125.9 3.6 Half-durotion 1.1

Moment Tensor; Scale 10**16 Nm
Mrr=-1.03 0.44 Mtt=-1.98 0.81
Mff= 3.02 0.73 Mrt= 1.55 0.54
Mrf= 8.07 0.49 Mtf= 2.08 0.64
Principal Axes:
T Val= 9.88 Plg=37 Azm=285
N -2.55 8 190
P -7.33 52 90
Best Double Couple:Mo=8.6*10**16
NP1:Strike= 54 Dip=11 Slip= -45
NP2: 189 82 -98

VUN	7.43	260	eP	12 40.30	2.7X
BKM	17.12	265	iPd	14 53.50	10.3X
DZM	19.29	251	iPc	15 07.40	-0.3
HBZ	21.82	197	eP	15 34.70	1.8
KUZ	21.88	203	eP	15 34.20	0.6
			e	15 43.00	32kmX
URZ	22.78	199	P	15 42.20	0.0
NOZ	22.84	197	eP	15 43.70	0.8
WLZ	22.93	202	P	15 45.30	1.6
PMO	25.02	90	iPd	16 05.00	1.1
	1.2s	231.50nm		5.6mb	
VAH	25.25	90	iPd	16 05.30	-0.7
	0.9s	180.80nm		5.6mb	
TPT	25.29	90	iPd	16 05.90	-0.5
	1.2s	236.80nm		5.6mb	
MNG	25.44	199	eP	16 05.70	-1.9
RUV	25.49	90	iPd	16 07.60	-0.6
	1 1s	272.50nm		5.7mb	
QRZ	26.66	203	eP	16 17.10	-1.6
		e		16 21.20	14kmX
SVO	26.74	283	P	16 27.00	7.3X
LTZ	28.45	202	eP	16 31.50	-3.4X
		e		16 35.90	15kmX
ARMA	34.25	240	iPd	17 24.20	-1.7
	0.3s	15.00nm		5.2mb	
		i		17 31.20	24kmX
CNB	37.54	233	eP	17 51.90	-1.6
	1 1s	63.00nm		5.3mb	
CTA	37.92	259	iPc	17 54.00	-2.7X
		i		18 28.00	155kmX
QLP	39.98	249	eP	18 11.20	-2.5
MDG	41.16	282	eP	18 25.20	1.7
TOO	41.23	232	iPd	18 23.00	-1.0
	0.7s	34.00nm		5.2mb	
STK	42.96	241	P	18 36.59	-1.5
WRA	49.10	258	P	19 24.80	-1.9
	0 6s	3.00nm		4.3mb	
GUA	50.69	304	eP	19 38.50	-0.2
	0.7s	136.99nm		5.9mb	
GUMO	50.75	304	eP	19 38.40	-0.8
	0.7s	83.30nm		5.7mb	
PJG	50.75	304	eP	19 38.50	-0.7
WARB	55.73	250	eP	20 17.10	1.2
	0.7s	77.00nm		5.8mb	
MBL	62.46	255	iPc	21 00.10	-2.1
	0.5s	28.00nm		5.5mb	
MEEK	62.87	248	eP	21 02.30	-2.6X
CSY	68.94	205	P	21 44.00	1.3
MAT	69.75	320	eP	21 48.00	-0.1
	1.0s	15.00nm		4.8mb	
WKYJ	69.93	317	P	21 49.40	0.1
TKSJ	70.80	316	P	21 55.00	0.4
YONJ	71.91	317	P	22 01.40	0.2
ABL	73.01	45	eP	22 07.89	0.0
PEC	73.87	46	(P)	22 12.17	-0.5
	0.8s	11.37nm		4.7mb	
ISA	73.98	44	eP	22 13.00	-0.3
	1.3s	22.90nm		4.8mb	
YSS	74.57	331	iPd	22 16.10	-0.2
	0.9s	30.00nm		5.1mb	
GSC	74.90	45	eP	22 18.47	-0.2
GLA	75.06	48	eP	22 19.50	-0.1
		epP		22 54.36	140km
LBFM	75.23	38	eP	22 20.57	0.0
BONR	75.40	42	eP	22 21.02	-0.7
KVN	76.17	42	(P)	22 25.30	-0.6
TNP	76 18	43	eP	22 24.99	-1.0
	0.8s	15.52nm		4.8mb	
		epP		22 59.95	140km
TPNV	76.18	44	eP	22 25.81	-0.2
	0 8s	12.70nm		4.7mb	
TUC	77.63	51	ePd	22 33.98	0.0
	0.9s	9.65nm		4.6mb	
		epP		23 06.79	130km
ARUT	78.52	45	ePc	22 39.01	0.2

SVW	79.03	9	eP	22 40.40	-0.6
	0.9s	10.98nm		4.6mb	
			e	22 46.54	
			(pP)	23 15.63	141km
MSU	79.75	45	eP	22 46.16	0.6
			epP	23 19.15	131km
DUG	80.20	43	eP	22 47.10	-0.7
	1.1s	5.64nm		4.2mb	
			epP	23 18.45	123km
TTA	B0.72	8	eP	22 50.03	0.1
	1.2s	8.67nm		4.4mb	
			epP	23 22.81	129km
HVU	81.06	42	eP	22 52.33	0.0
KLU	81.17	13	eP	22 51.36	-1.0
DPW	81.31	34	eP	22 52.82	-0.5
			epP	23 27.08	136km
DAU	81.33	43	(P)	22 53.75	-0.2
LTX	81.77	56	eP	22 54.88	-1.3
MGD	81.81	343	eP	22 55.00	-0.6
ALQ	82.05	50	eP	22 57.82	0.2
	1.4s	12.86nm		4.5mb	
			epP	23 31.65	134km
LRM	83.40	38	eP	23 04.10	-0.3
			e	23 12.80	27kmX
			e	23 39.00	
BW06	83.62	42	ePd	23 04.78	-0.8
	0.8s	10.59nm		4 8mb	
			epP	23 39.15	135km
FBA	83.87	11	eP	23 04.98	-1.1
	0.8s	15.01nm		4.9mb	
			epP	23 37.13	125km
IMA	84.03	8	eP	23 05.98	-1.0
	1.3s	8.47nm		4.4mb	
ILT	84.56	358	iPc	23 09.00	-0.3
	1.4s	14.00nm		4.6mb	
			eS	33 28.00	
BJI	86.13	314	eP	23 19.00	1.2
	1.3s	64.00nm		5.4mb	
KMI	91.25	296	Pc	23 44.50	1.9
	1.0s	60.00nm		5.7mb	
			pP	23 52.50	25kmX
YKA	91.57	24	eP	23 42.70	-0.2
	0.9s	1.40nm		4.1mb	
CHTO	92.75	289	iPc	23 50.90	1.6
	0.8s	17.94nm		5.4mb	
CIT	92.78	324	eP	23 50.00	1.2
LZH	93.71	306	eP	23 54.50	0.9
	1.2s	34.00nm		5.5mb	
AFIF	144.63	288	iPKPc	30 13.33	-0.4
OJC	144.92	345	ePkP	30 12.40	-0.9
ABHA	145.10	278	ePKP	30 16.00	1.1
KSP	145.10	349	ePKP	30 13.00	-0.6
	0.9s	44.00nm			
			i	30 17.50	
			e	30 47.30	
CLL	145.16	352	iPKPc	30 12.90	-0.7
	1 6s	29.00nm			
UQSK	145.19	291	iPKPc	30 15.67	1.1
RAC	145.43	346	ePKP	30 15.00	0.9
BRG	145.46	351	ePKP	30 13.60	-0.6
	1.2s	26.00nm			
CLI	145.56	334	ePKPc	30 18.00	3.5X
UZH	145.64	341	iPKPc	30 15.20	0.7
PPE	145.68	333	ePKPc	30 16.50	1.8
SPC	145.74	344	ePKP	30 16.70	1.7
KAS	145.90	322	iPKPc	30 17.40	2.1
BNS	145.94	359	iPKPc	30 16.10	1.2
MOX	145.98	354	iPKPc	30 16.00	0.9
	1.3s	41.00nm			
PRU	146.23	350	PKPc	30 16.90	1.4
	1.3s	30.30nm			
			i	30 21.00	
			e	30 25.40	
			e	30 50.70	
VRI	146.33	334	ePKP	30 17.00	1.2
BRD	146.47	333	ePKP	30 20.00	4.0X
CVO	146.60	334	ePKP	30 21.00	4.7X
DOU	146.79	2	PKPc	30 19 30	3.0X
GRF	146.96	354	ePKP	30 21.07	4.4X
			e	30 55.00	
MLR	146.96	334	ePKPd	30 20.00	3.0X
ISR	146.99	333	ePKP	30 21.00	4.1X
KHC	147.22	351	PKP	30 20.00	2.9X
	1.1s	12.50nm			
			e	30 43.50	
			e	30 55.70	
ZST	147.45	346	e(PKP)	30 19.70	2.2

			i	30 23.70	
GEC2	147.48	351	ePKP	30 20.20	2.6X
	0.8s	5.47nm			
			e	30 24.50	
			e	30 26.70	
			e	30 41.20	
			e	30 49.40	
			e	30 53.20	
			e	30 57.60	
			e	31 03.80	
			e	31 10.00	
			e	31 14.50	
SRO	147.52	345	ePKP	30 21.90	4.3X
FLN	147.69	8	iPKPc	30 20.60	2.8X
	1.1s	46.65nm			
LDF	147.91	8	iPKPc	30 22.10	3.9X
	1.1s	35.40nm			
GRR	148.01	9	iPKPc	30 21.60	3.3X
	1.2s	51.15nm			
LPF	148.33	9	iPKPc	30 22.50	3.6X
	1.1s	55.70nm			
CDF	148.49	359	iPKPc	30 23.00	3.7X
	1.1s	24.90nm			
HRI	148.73	307	ePKP	30 25.40	5.2X
HAU	148.91	360	iPKPc	30 24.10	4.2X
	0.8s	10.75nm			
BSF	149.08	359	iPKPc	30 24.30	4.1X
	1.0s	17.80nm			
KBA	149.25	350	iPKPd	30 24.10	3.5X
	0.9s	9.50nm			
			i	30 28.40	
			i	30 30.50	
WTTA	149.31	353	iPKPc	30 25.10	4.4X
	0.5s	11.70nm			
			i	30 29.50	
			i	31 02.50	
LOR	149.59	3	iPKPc	30 26.00	5.1X
	0.8s	11.55nm			
CSS	149.75	312	ePKP	30 26.50	5.0X
SSF	149.77	4	iPKPc	30 26.50	5.4X
	1.1s	30.50nm			
RBL	149.83	350	PKP	30 29.40	8.0X
BGIO	149.85	305	ePKP	30 27.90	6.1X
MFF	149.85	9	iPKPc	30 26.40	5.1X
	1.3s	35.40nm			
LBF	149.88	3	iPKPc	30 26.60	5.2X
	1.0s	20.60nm			
AVF	150.03	4	iPKPc	30 26.70	5.2X
	1.2s	20.85nm			
LJU	150.04	348	e(PKP)	30 27.00	5.4X
VOY	150.17	349	e(PKP)	30 26.50	4.6X
CEY	150.35	348	e(PKP)	30 25.00	2.9X
VBY	150.41	347	e(PKP)	30 27.00	4.9X
LSF	150.41	6	iPKPc	30 27.50	5.4X
	0.9s	21.95nm			
TCF	150.44	6	iPKPc	30 27.80	5.6X
	1.2s	30.65nm			
CTI	150.51	352	PKP	30 28.30	5.9X
TRI	150.51	349	ePKP	30 28.70	6.4X
MAF	150.54	5	iPKPc	30 28.20	5.8X
	1.2s	32.45nm			
MBH	150.72	301	ePKP	30 29.90	6.7X
VAI	150.96	356	PKP	30 29.40	6.5X
LPL	151.39	359	iPKPc	30 32.00	8.1X
	1.2s	19.05nm			
LPG	151.41	359	iPKPc	30 31.20	7.1X
	1.2s	22.90nm			
LFF	151.61	8	iPKPc	30 31.60	7.6X
VAY	151.78	333	ePKP	30 27.30	3.0X
LPO	151.92	8	iPKPc	30 31.10	6.7X
OHR	152.69	335	ePKP	30 28.50	2.8X

S.D. = 1.1 on 81 of 132 obs.

MAY 27, 1993 06h 12m 08.66± 0.26s
43.125 N ± 3.5km 0.151 E ± 2.4km
DEPTH = 19.7 ± 4.2 km
FRANCE (538)
ML 4.0 (LDG). mbLg 3.8 (MDD).
Felt (IV) in the Bigorre
District.

EPF	0.17	124	Pg	12 12.40	-1.1
			Sg	12 15.10	
JAU	0.39	257	Pg	12 16.59	-0.4
			Sg	12 22.12	
OGE	0.46	276	Pg	12 18.57	0.6
			Sg	12 25.11	

27d 06h

ESCF	0.53	265	Pg	12 19.09	-0.2
			Sg	12 26.91	
LHE	0.60	250	Pg	12 19.91	-0.6
			Sg	12 27.45	
ATE	0.62	267	Pg	12 20.93	0.1
			Sg	12 29.71	
ISSF	0.70	262	Pg	12 22.38	0.2
			Sg	12 32.05	
MADF	0.71	272	Pg	12 22.77	0.5
LESF	0.84	96	Pg	12 25.77	1.4
ELYF	0.84	273	Pg	12 25.26	0.8
			Sg	12 37.00	
SALF	0.85	115	Pg	12 24.75	0.2
BOH	0.85	269	Pg	12 24.90	0.2
			Sg	12 36.36	
EGRA	0.99	201	iPgc	12 25.13	-1.9
			eSg	12 35.70	
GRBF	1.06	105	Pg	12 29.03	0.8
LSPF	1.30	97	Pg	12 35.16	3.4X
VDCF	1.71	107	Pg	12 41.37	3.6X
LPO	1.73	25	Pn	12 39.20	1.3
			Pg	12 42.70	
			Sg	13 50.80	
LFF	1.86	13	Pn	12 42.10	2.2X
			Pg	12 45.80	
			Sg	13 10.40	
ECRI	2.02	256	iPnc	12 44.69	2.4X
			eSn	13 07.80	
ETER	2.16	112	iPnd	12 49.55	5.4X
			eSn	13 15.50	
CAF	2.27	37	Pn	12 46.50	0.8
			Pg	12 53.00	
			Sg	13 23.50	
EROQ	2.31	175	ePn	12 48.84	2.6X
RJF	2.39	24	Pn	12 47.30	-0.1
			Pg	12 55.10	
			Sg	13 26.60	
ETOR	2.83	216	iPnd	12 54.51	0.7
			eSn	13 22.60	
LSF	3.28	17	Pn	13 00.30	0.3
			Pg	13 11.90	
			Sg	13 55.10	
MFF	3.48	357	Pn	13 03.40	0.5
			Pg	13 15.10	
			Sg	14 00.30	
TCF	3.49	24	Pn	13 03.80	0.8
			Pg	13 15.20	
			Sg	14 01.80	
MAF	3 54	28	Pn	13 05.20	1.4
			Pg	13 17.00	
			Sg	14 03.60	
ECHE	3.63	194	ePn	13 06.12	1.0
			eSn	13 42.50	
BGF	3.93	28	Pn	13 08.90	-0.4
			Pg	13 23.90	
			Sg	14 14.40	
GUD	4.06	234	iPnd	13 11.07	-0.2
			eSn	13 54.20	
CDR	4.13	80	e(Pn)	13 13.90	1.8
			e	13 26.40	
AVF	4.31	31	Pn	13 14.00	-0.7
			Pg	13 30.60	
			Sg	14 26.90	
SMF	4.39	35	Pn	13 15.70	-0.1
			Sg	14 30.50	
HYF	4.50	22	Pn	13 16.60	-0.8
LRG	4.54	84	Pn	13 17.40	-0.6
			Pg	13 35.10	
			Sg	14 31.70	
SSF	4.60	30	Pn	13 18.80	0.0
			Pg	13 36.80	
			Sg	14 36.00	
LMR	4.65	85	Pn	13 19.00	-0.6
			Pg	13 35.90	
LBF	4.72	34	Pn	13 20.30	-0.2
			Pg	13 38.20	
			Sg	14 39.90	
FRF	4.76	83	Pn	13 19.00	-2.1X
			Sg	14 38.50	
LOR	4.90	31	Pn	13 23.60	0.5
			Pg	13 42.10	
			Sn	14 19.70	
			Sg	14 46.50	
LPF	4.98	351	Pn	13 22.90	-1.2
			Pg	13 42.30	
			Sn	14 19.30	
			Sg	14 48.00	

LPL	5.29	61	Pn	13 27.80	-1.0
			Pg	13 47.80	
			Sg	14 56.30	
LPG	5.30	61	Pn	13 27.80	-1.2
			Sg	14 56.50	
GRR	5.31	353	Pn	13 28.70	-0.1
			Pg	13 48.60	
			Sg	14 58.20	
LDF	5.47	358	Pn	13 30.60	-0.5
			Pg	13 52.20	
			Sg	15 03.90	
FLN	5.66	356	Pn	13 32.20	-1.5X
			Pg	13 54.60	
			Sg	15 08.10	
PGF	6.53	92	Pn	13 43.30	-2.9X
HAU	6.54	40	Pg	14 11.40	25.2X
			Sg	15 35.80	
BSF	6.63	42	Pg	14 13.20	25.7X
			Sg	15 39.80	

S.D. = 0.8 on 39 of 50 obs.

MAY 27, 1993 06h 21m 53.98± 0.32s
37.084 N ± 3.1km 112.089 W ± 3.2km
DEPTH = 10.0km (geophysicist)
3.3mb (1 obs.)
UTAH (478)
ML 3.5 (GS). MD 3.5 (SLC). Felt (III) at Fredonia, Arizona.

CCU	0.98	307	P	22 12.88	0.2
DWU	1.25	325	P	22 18.10	0.7
MMU	1.28	29	P	22 18.46	0.6
ARUT	1.29	304	ePc	22 18.41	0.5
MSU	1.43	357	eP	22 19.62	-0.6
IMU	1.76	332	P	22 25.87	0.9
SRU	2.37	31	(P)	22 46.17	12.5X
PV09	2.73	58	eP	22 39.00	0.0
EMUT	2.90	20	(P)	22 45.94	4.6X
			eS	23 19.74	
DUG	3.16	350	ePn	22 44.47	-0.3
			ePg	22 53.85	
			eS	23 34.71	
TPNV	3.33	269	eP	22 47.23	-0.1
DAU	3.39	11	ePn	22 47.25	-1.0
			eS	23 39.50	
TNP	4.19	285	ePnc	22 59.57	0.0
GSC	4.21	246	eP	22 59.64	-0.1
GLA	4.61	210	eP	23 05.24	-0.1
HVU	4.72	354	ePn	23 06.67	-0.4
TUC	4.88	167	ePn	23 09.37	0.1
			eS	24 21.26	
BONR	5.02	282	ePd	23 11.30	0.0
ALQ	5.04	113	ePn	23 11.99	0.4
			eS	24 27.99	
KVN	5.13	294	(Pn)	23 13.36	0.4
			ePg	23 29.79	
PEC	5.22	234	ePn	23 13.85	-0.2
SSK	5.39	240	ePn	23 16.80	0.3
			ePg	23 33.09	
PLM	5.40	228	(P)	23 16.11	-0.5
GOL	5.89	62	ePn	23 24.39	0.8
			ePg	23 45.34	
YKA	25.48	357	eP	27 22.10	-1.4
	0.6s		0.40nm		3.3mb

S.D. = 0.6 on 23 of 25 obs.

• MAY 27, 1993 06h 31m 49.41± 3.60s
31.199 S ±16.9km 72.401 W ±28.0km
DEPTH = 33.0km (normal)
OFF COAST OF CENTRAL CHILE (134)

ROCH	2.13	147	iP	32 23.09	-0.4
			iS	32 46.26	
JACH	2.13	134	iP	32 22.76	-0.7
			iS	32 45.36	
LCCH	2.38	163	iP	32 27.43	0.5
			iS	32 54.13	
PEL	2.42	144	iPd	32 27.24	-0.4
			iS	32 53.06	
RTBS	2.56	101	ePd	32 30.50	1.0
SAN	2.69	147	iP	32 30.67	-0.6
			iS	32 59.94	
TACH	2.74	154	iP	32 32.36	0.3
			iS	33 01.77	
FCH	2.77	140	iP	32 32.25	-0.5
			iS	33 01.72	
LNV	2.87	163	eP	32 34.59	0.7
			iS	33 06.94	
PCH	2.89	147	iP	32 34.00	-0.3
CHCH	3.10	152	iP	32 37.32	0.1
			iS	33 11.16	
ZON	3.20	97	eP	32 40.60	2.0X
			eS	33 17.60	
RTCV	3.36	102	ePc	32 41.60	0.6
RTLL	3.37	93	iPc	32 41.70	0.7
			S	33 21.00	
MDZ	3.45	120	eP	32 44.10	1.9
			i	33 25.30	
			iS	33 28.90	
CFA	3.58	98	eP	32 44.50	0.5
			S	33 25.50	
RFA	4 86	138	ePd	33 01.60	-0.6
			S	34 12.80	
CYA	6.36	66	ePd	33 23.30	-0.1
			S	34 30.70	
TCA	6.69	93	ePd	33 25.30	-2.7
			S	34 42.00	

S.D. = 1.0 on 18 of 19 obs.

? MAY 27, 1993 06h 40m 19.29±15.89s
35.474 S ±135.km 71.312 W ±28.2km
DEPTH = 100.0km (geophysicist)
CENTRAL CHILE (136)

LNV	1.52	357	iP	40 46.47	0.4
			iS	41 09.53	
CHCH	1.63	20	iP	40 48.21	0.6
			iS	41 12.05	
TACH	1.84	10	iP	40 50.23	-0.1
			iS	41 16.70	
PCH	1.96	20	iP	40 52.26	0.3
LCCH	2.00	354	iP	40 51.56	-0.9
			iS	41 19.94	
FCH	2.30	22	eP	40 57.19	0.5
PEL	2.38	13	iP	40 58.01	0.5
ROCH	2.51	6	iP	40 59.43	0.1
			iS	41 33.28	
JACH	2.85	12	iP	41 03.63	-0.2
			iS	41 41.33	
RTLL	4.77	31	ePd	41 29.00	-1.1

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

? MAY 27, 1993 06h 58m 14.89± 1.08s
32.227 S ±14.5km 179.999 E ±27.8km
DEPTH = 193.7 ± 16.4 km
4.2mb (2 obs.)
SOUTH OF KERMADEC ISLANDS (179)

RAO	3.47	32	eP	59 09.90	-0.4
			S	59 48.50	
PUZ	6.00	193	P	59 44.30	1.5
			S	00 55.00	
URZ	6.47	201	eP	59 51.10	2.3
			S	01 05.70	
NOZ	6.57	194	eP	59 50.40	0.2
MNG	9.13	202	eP	00 22.00	-1.8
			S	02 03.20	
THZ	11.08	209	eP	00 48.60	-0.5
			S	02 49.60	
KHZ	11.39	205	eP	00 50.80	-2.2
			eS	02 53.50	
ASPA	41.35	270	iPc	05 43.60	0.2
	0.9s		11.00nm		4.4mb
WRA	42.50	275	P	05 53.20	0.4
	0.8s		3.80nm		4.0mb
KAF	145.65	338	iPKP	17 27.60	-3.1X
	0.5s		1.60nm		
BCAD	147.35	216	iPKPd	17 35.00	0.1
	0.6s		6.00nm		
NUR	147.39	337	ePKP	17 27.50	-6.0X
NB2	150.25	349	PKP	17 38.20	0.2
	0.7s		1.10nm		

S.D. = 1.5 on 11 of 13 obs.

& MAY 27, 1993 07h 37m 29.17s
62.885 N 150.995 W
DEPTH = 98.0km
CENTRAL ALASKA (1)
<AEIC>.

HUR	0.63	81	eP	37 46.27	0.2
			eS	37 58.36	
TRF	0.65	29	eP	37 46.18	-0.2
			eS	37 59.54	

```
SKT     0.94 196 iP    37 48.72  -0.4
                eS     38 04.52
RND     1.10  61 eP    37 50.56  -0.4
MCK     1.26  47 eP    37 51.21  -1.6
PWA     1.34 157 P     37 53.70   0.0
SUA     1.43 175 eP    37 55.06   0.1
GHO     1.48 138 eP    37 54.83  -0.7
PLRM    1.56 145 eP    37 55.56  -0.9
PMR     1.56 145 eP    37 55.10  -1.4
SML     1.65 130 eP    37 57.81   0.2
CGLM    1.65 197 eP    37 57.51  -0.2
CPAM    1.72 199 eP    37 58.77   0.1
BGL     1.76 203 eP    37 59.03   0.0
PMS     1.78 157 P     37 58.50  -0.8
                S      38 21.60
SPU     1.78 197 eP    37 59.17  -0.2
CKL     1.81 201 eP    37 59.21  -0.6
NEA     1.90  26 eP    37 59.25  -1.6
SCM     2.01 120 eP    38 01.65  -0.7
WRH     2.05  38 eP    38 00.32  -2.5
PTE     2.23 154 eP    38 03.47  -1.7
CCB     2.27  37 eP    38 02.89  -2.8
TTA     2.30 273 P     38 04.50  -1.7
HDA     2.36  48 eP    38 04.21  -2.8
SLKM    2.41 171 eP    38 06.56  -1.2
PAX     2.53  86 eP    38 07.47  -1.9
SDG     2.54  96 eP    38 07.70  -1.7
GLM     2.64  35 eP    38 07.95  -2.9
KLU     2.76 118 eP    38 11.30  -1.1
GLB     3.67 110 eP    38 22.60  -2.2
      30 obs. associated
-----------------------------------------
% MAY 27, 1993 07h 40m 57.69± 0.85s
  39.146 N ± 6.8km   27.622 E ± 8.3km
  DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.8 (ISK).

IZM     0.80 201 ePg   41 13.00  -0.2
                eSg    41 24.50
DST     0.90  59 iPn   41 15.60   0.5
EZN     1.21 305 ePn   41 20.90   0.7
EDC     1 21   9 ePn   41 20.00  -0.3
KCT     1.24  27 iPn   41 20.60  -0.1
KGT     1 33 349 iPn   41 21.60  -0.6
     S.D. = 0.6  on   6 of   6 obs.
-----------------------------------------
% MAY 27, 1993 07h 42m 06.20± 0.86s
  39.111 N ± 7.3km   27.596 E ± 8.8km
  DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2 7 (ISK).

IZM     0.76 200 ePg   42 21.00  -0.1
                eSg    42 33.00
DST     0.94  58 ePn   42 24.40   0.2
EZN     1.22 306 ePn   42 28.90   0.1
EDC     1.25   9 ePn   42 29.50   0.0
KCT     1.28  27 ePn   42 29.60  -0.3
     S.D. = 0.3  on   5 of   5 obs.
-----------------------------------------
? MAY 27, 1993 08h 18m 44.11± 0.99s
  44.370 N ±10.4km    7.361 E ± 8.7km
  DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                  (545)
      ML 1.4 (GEN).

STV     0.13 192 P     18 47.45   0.1
                S      18 50.05
ENR     0.15 163 P     18 47.54  -0.1
                S      18 50.19
PZZ     0.23 306 P     18 49.09   0.0
                S      18 53.17
ROB     0.37 101 P     18 51.84   0.0
                S      18 56.78
     S.D. = 0.2  on   4 of   4 obs.
-----------------------------------------
& MAY 27, 1993  08h 39m 36.78s
  36.144 N          120.267 W
  DEPTH =  10.9km
 CENTRAL CALIFORNIA              ( 39)
      <GM-P>. MD 3.4 (GM). ML 3.4
      (PAS), 3.2 (GS), 3.0 (BRK).
      Felt (III) at Coalinga.

PARM    0.12 330 P     39 41.02   1.1
PCRM    0.14 250 P     39 40.64   0.4
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```
PKEM    0.15 123 eP    39 40.99   0.6
PHBM    0.18  55 P     39 42.31   1.4
CTM     0.22 195 P     39 42.18   0.5
PSMM    0.28 254 P     39 43.61   0.9
PSRM    0.29 182 P     39 43.54   0.7
PSTM    0.29 222 P     39 43.77   0.8
PWMM    0.29   9 P     39 44.60   1.7
PRCM    0.31 292 P     39 43.70   0.5
GHC     0.32 193 P     39 43.91   0.4
PRI     0.32 270 iP    39 44.62   1.1
PHAM    0.33 199 iPd   39 44.33   0.7
PMRM    0.36 176 P     39 44.82   0.6
PTV     0.37 265 P     39 45.14   0.7
WKR     0.38 211 P     39 45.43   0.7
PMCM    0.43 191 P     39 46.14   0.6
MOP     0.43 280 P     39 46.31   0.6
PTRM    0.49 175 P     39 47.34   0.6
PSAM    0.52 257 P     39 47.52   0.2
BMSM    0.67 321 P     39 50.54   0.6
LLA     0.72 311 iP    39 51.01   0.1
PMGM    0.74 196 P     39 51.29   0.0
YEG     0.75 160 P     39 51.75   0.3
BRMM    0.82 327 P     39 53.59   1.0
EKH     0.90 306 P     39 54.50   0.6
PRS     0.91 282 iPd   39 54.12   0.0
                iS     40 08.75
FRI     0.96  28 iPd   39 54.36  -0.5
                iS     40 06.31
BCH     0.97 171 ePc   39 55.03  -0.2
                eS     40 09.13
BCGM    1.04 303 P     39 57.00   0.8
BSLM    1.08 306 P     39 57.91   1.0
SAO     1.13 303 eP    39 57.72  -0.2
HSFM    1.20 304 P     39 59.95   0.9
BPRM    1.21 283 P     39 58.60  -0.7
SFL     1.24 313 P     39 59.43  -0.3
DIL     1.31 302 P     40 00.68  -0.2
MARC    1.37 146 P     40 01.33  -0.4
CBC     1.37 305 P     40 03.57   1.8
HSPM    1.40 314 P     40 01.77  -0.5
ISA     1.53 108 ePc   40 03.23  -0.9
                eS     40 22.54
ABL     1.55 146 eP    40 02.92  -1.6
                eS     40 22.17
ARN     1.57 320 eP    40 03.36  -1.4
JRGM    1.63 304 P     40 05.30  -0.2
GCC     1.65 303 iPd   40 04.71  -1.0
BMTC    1.69 126 P     40 05.32  -1.2
WCHM    1.80  98 P     40 08.43   0.2
MEMM    1.86  35 eP    40 08.97   0.2
                eS     40 33.70
CMB     1.89 357 ePnc  40 09.01  -0.3
STAN    1.98 310 eP    40 10.40  -0.2
BKS     2.34 318 ePc   40 14.75  -1.0
BONR    2.40  40 ePn   40 17.07   0.2
                eS     40 50.67
SSK     2.86 132 ePn   40 22.18  -1.1
GSC     2.94 106 ePn   40 23.32  -1.0
                S      41 07.98
TNP     3.11  51 ePn   40 26.55  -0.3
                ePg    40 32.29
TPNV    3.33  75 ePn   40 29.93  -0.1
                ePg    40 36.01
KVN     3.37  30 (Pn)  40 30.85   0.2
                ePg    40 37.26
PEC     3.40 130 ePn   40 30.35  -0.5
ORV     3.54 344 iP    40 33.21   0.4
MIN     4.32 346 iP    40 52.26   8.2
GLA     5.44 123 (Pn)  41 00.16   0.3
                ePg    41 17.86
MSU     6.87  67 ePn   41 20.09   0.0
                ePg    41 41.97
      61 obs. associated
-----------------------------------------
   MAY 27, 1993  08h 51m 59.54± 0.10s
  29.359 S ± 4.3km   178.271 W ± 3.2km
   DEPTH = 118.5km  (geophysicist)
   5.9mb ( 62 obs.)
 KERMADEC ISLANDS, NEW ZEALAND   (178)
      Mw 5.8 (GS), 5.8 (HRV). Felt
      (IV) on Raoul Island. Depth from
      broadband displacement
      seismograms.
      FAULT PLANE SOLUTION: P-Waves
       NP1:Strike= 20 Dip=68 Slip= -35
       NP2:       125     58     -154
       Principal Axes:
```

```
        T              Plg= 6  Azm= 74
        P                  40      339
      Comment: The focal mechanism is
        poorly controlled and
        corresponds to strike-slip
        faulting with a large normal
        component. The preferred fault
        plane is not determined.
      RADIATED ENERGY
       No. of sta:   6  Focal mech.  F
       Energy      4.5±1.6*10**13 Nm
      MOMENT TENSOR SOLUTION
      Dep 116              No. of sta: 20
      Moment Tensor;    Scale 10**17 Nm
        Mrr=-3.42         Mtt=-0.18
        Mff= 3.60         Mrt=-1.87
        Mrf=-3.45         Mtf= 0.31
       Principal axes:
        T  Val=  5.20  Plg=24  Azm=102
        N        0.14       12      197
        P       -5.34       63      312
      Best Double Couple:Mo=5.3*10**17
       NP1:Strike=169 Dip=24 Slip=-121
       NP2:       22     70      -77
      CENTROID, MOMENT TENSOR    (HRV)
      Data Used: GDSN
      L.P.B.: 46S, 95C
      Centroid Location:
      Origin Time       08:52: 5.3 0.2
      Lat 29.39S 0.02 Lon 178.04W 0.02
      Dep 127.9 0.9 Half-duration  1.9
      Moment Tensor;    Scale 10**17 Nm
        Mrr=-2.64 0.07  Mtt=-0.39 0.12
        Mff= 3.03 0.12  Mrt=-2.32 0.08
        Mrf=-3.72 0.08  Mtf= 0.15 0.11
       Principal Axes:
        T  Val=  5.13  Plg=28  Azm=105
        N        0.19       14      203
        P       -5.32       58      316
      Best Double Couple:Mo=5.2*10**17
       NP1:Strike=161 Dip=21 Slip=-133
       NP2:       27     75      -75

RAO     0.33  71 iPc   52 18.10   1.1
HBZ     8.70 198 eP    53 58.10  -5.8X
KUZ     8.93 213 P     54 06.60  -0.4X
PUZ     9.16 197 P     54 03.30  -6.9X
                eS     55 46.10
URZ     9.67 202 eP    54 11.40  -5.6X
NOZ     9.73 197 eP    54 09.50  -8.2X
WLZ     9.91 209 eP    54 18.60  -1.5X
MOZ    10.78 210 P     54 29.60  -2.1X
SVA    11.58 344 eP    54 43.60   1.3
VUN    11.69 344 eP    54 43.90   0.2
MNG    12.34 203 eP    54 42.20 -10.0X
SNZO   13.22 204 P     54 58.00  -5.7X
                S      57 18.00
THZ    14.30 208 eP    55 10.20  -7.4X
                S      57 45.50
KHZ    14.61 205 eP    55 11.50 -10.0X
                S      57 49.30
DSZ    14.75 210 eP    55 15.80  -7.5X
LTZ    15.41 207 eP    55 21.60 -10.0X
                S      58 06.70
DZM    15.56 294 iPc   55 38.80   5.1X
                iS     58 38.70
                i      00 30.00
PVC    16.87 310 iPc   55 55.00   5.2X
BKM    16.96 310 iPc   55 54.50   3.5X
RAR    18.57  68 iPc   56 07.43  -2.6
       2.4s  6350.05nm          6.5mb
BRS    25.53 267 iPc   57 22.50   3.8X
       1.0s    19.00nm          4.6mb X
                i      57 54.00 154kmX
ARMA   26.09 260 iPd   57 27.60   3.7X
       0.6s   119.00nm          5.6mb
                e      04 19.50
RIV    26.37 252 iPc   57 30.20   3.9X
CNB    27.91 249 iPc   57 43.00   2.7X
       1.1s   388.00nm          6.0mb
                e      00 53.90
                eScP   04 26.30
CAN    28.20 249 iPd   57 45.10   2.1
                i      57 56.90  46kmX
                i      58 08.40
                i      58 17.50
AFR    28.59  72 iPc   57 45.20  -1.3
```

27d 08h

	0.8s	151.00nm		5.7mb	PLP	67.92	298	ePd	02	44.70	-3.0X	ISA	85.73	45	iPd	04	27.40	1.0
BWA	28.65	251	iPd	57 46.90 -0.1	TRT	68.06	273	ePc	02	40.50	-8.1X		1.7s	401.26nm				6.1mb
			i	57 57.60 39kmX	TSM	69.68	287	ePd	02	58.80	0.3		Z 20s	0.30um				4.7Msz
			e	58 19.60	KKM	72.01	288	ePd	03	10.70	-2.0				epP	04	58.38	120kmX
PAE	28.69	72	iPc	57 46.20 -1.2		0.7s	157.00nm			5.9mb		VTV	85.73	46	ePd	04	26.93	0.6
	1.1s	246.10nm		5.8mb	PPR	72.04	293	eP	03	11.50	-1.2				(pP)	04	57.38	117kmX
PPT	28.74	72	iPc	57 46.70 -1.2	PGP	72.46	297	iPc	03	12.50	-2.7X	FHC	86.02	38	eP	04	29.08	1.4
	1.3s	431.80nm		6.0mb	LEM	72.85	272	iPd	03	17.50	-0.2		1.2s	291.32nm				6.1mb
PPN	28.88	72	iPc	57 47.90 -1.2	MAW	73.20	201	iPd	03	19.00	0.3	CMB	86.15	42	iPc	04	35.68	7.3X
	1.1s	196.30nm		5.7mb		1.0s	208.33nm			5.9mb			Z 17s	0.40um				4.9MszX
TVO	28.91	73	iPc	57 48.20 -1.3	BCP	74.48	299	eP	03	22.20	-4.9X				epPc	04	58.68	B5kmX
	0.9s	204.40nm		5.8mb	WKYJ	76.81	322	P	03	40.00	0.3				eSKS	14	50.68	
TOO	31.17	245	iPc	58 10.80 1.5	KAGJ	77.23	317	P	03	42.60	0.6				iS	15	03.68	
	0.7s	131.00nm		5.8mb	MAJO	77.25	325	iPd	03	41.58	-0.5				isS	15	58.68	
			ipP	58 43.40 154kmX				e	04	11.71	118kmX				e	17	19.68	
			iPcP	01 01.30				ec	04	24.29					eSS	19	54.68	
			i	01 17.00	MAT	77.25	325	iPd	03	41.30	-0.8				e	27	17.68	
			iScP	04 35.10		1.1s	158.23nm			5.7mb					e	30	15.68	
PMO	31.43	70	iPc	58 10.60 -1.0		Z 18s	0.34um			4.7Msz		CMB	86.15	42	iPd	04	28.77	0.3
	1.4s	404 30nm		6.0mb				eS	13	11.00			Z 17s	0.40um				4.9MszX
VAH	31.52	70	iPd	58 11.30 -1.1	TKSJ	77.47	321	P	03	43.40	0.1				(pP)	04	59.06	117kmX
	1.2s	299.90nm		5.9mb	OFUJ	77.65	329	eP	03	44.20	0.0				eSKS	14	50.68	
TPT	31.67	70	iPd	58 12.70 -1.0	YAMJ	77.67	328	eP	03	44.50	0.2				iS	15	03.68	
	1.3s	355.20nm		6.0mb	KUMJ	78.23	318	P	03	47.90	0.4				iSS	15	58.68	
RUV	31.75	70	iPc	58 13.50 -0.9	YONJ	78.69	321	P	03	50.00	0.0				e	17	19.68	
	1.4s	343.30nm		5.9mb	SHNJ	79.22	319	P	03	52.30	-0.5				eSS	19	54.68	
QLP	33.14	266	iPd	58 27.70 1.2	ERM	79.43	332	(P)	03	54.25	0.4				e	30	15.68	
			e	04 38.80				epPc	04	23.55	114kmX	GLA	86.39	49	iPc	04	31.23	1.5
CTA	33.41	278	iPd-	58 31.00 2.1	AOMJ	79.44	329	eP	03	55.70	1.8				epP	05	01.97	118kmX
	0.8s	98.88nm		5.7mb	HOOJ	79.69	332	eP	03	56.60	1.4	GSC	86.53	46	ePd	04	31.41	1.0
			ipPc	58 43.00 45kmX	KUSJ	79.72	333	P	03	55.40	0.1				epP	05	02.26	119kmX
			isPd	58 56.00	NVL	79.90	183	iPd	03	57.00	1.1	ORV	86.53	40	iPd	04	30.69	0.5
			e(PP)	59 09.00		1.5s	347.00nm			5.9mb					epP	05	01.66	119kmX
			e	01 04.00				epP	04	27.00	117kmX	WDC	86.66	39	iPd	04	31.40	0.6
			eS	04 33.00				ePP	06	57.00			1.0s	209.77nm				6.1mb
CTAO	33.41	278	ePd	58 30.58 1.7				ePPP	08	50.00			Z 18s	0.36um				4.8Msz
			e	58 53.75 102kmX				iS	13	48.00		MEMM	86.76	43	eP	04	32.90	1.6
			ec	59 08.32				esS	14	28.00		CGX	87.02	66	(P)	04	35.00	1.8
ADE	36.63	250	iPd	58 57.40 1.2				ePS	14	44.00		BONR	87.33	43	iPd	04	35.32	0.9
RAB	37.56	306	eP	59 04.00 0.0				eSS	19	14.00		PEL	87.47	127	iPd	04	36.00	0.9
PMG	37.96	294	eP	59 09.00 1.7	SNA	80.57	179	iPd	04	00.90	1.4	LBFM	87.54	39	ePd	04	35.40	0.1
MDG	41.57	298	eP	59 39.00 1.8		0.9s	350.00nm			6 2mb		MDJ	87.64	326	ePd	04	37.06	1.7
ASPA	42.94	266	iPd	59 48.50 0.1	MRRJ	80.65	331	eP	04	00.80	0.6				esPc	05	19.94	
	1.3s	151.00nm		5.6mb	ADK	80.90	1	ePd	04	00.26	-1.1	NEE	87.64	48	iPd	04	37.25	1.7
	Z 21s	1.70um		4.9Msz		1.0s	250.63nm			6 0mb					(pP)	05	06.55	112kmX
			e	00 17.60 128kmX	ASAJ	81.39	333	P	04	05.80	1.7	VIP	87.83	41	P	04	49.17	12.4X
			ePcP	01 37.00	SMY	82.01	355	eP	04	06.59	-0.5	TPNV	87.93	45	iPd	04	38.15	1.0
			eScP	05 14.60		0.9s	270.70nm			6.0mb			0.8s	88.79nm				5.8mb
			ePcS	05 24.70	HKC	82.84	300	iP	04	14 20	2.1	DBO	88.04	37	P	04	38.27	0.8
			eS	06 01.50	SSE	83.25	311	iPd	04	14.38	0.4	TNP	88.06	44	iPd	04	38.42	0.6
			iScS	09 30.80		1.1s	272.00nm			6.1mb			0.8s	80.90nm				5.8mb
WRA	43.83	271	P	00 14.10 18.5X		Z 20s	0.50um			4.9Msz					ipP	05	09.94	121kmX
	0.9s	6.50nm						e	04	19.00		RFA	88.09	129	ePd	04	39.40	1.3
WRA	43.83	271	P	59 51.79 -3.8X				pP	04	48.00	132kmX	KVN	88.16	43	iPd	04	38.84	0.5
DRV	45.01	202	iP	00 04.50 0.1				esPc	04	57.59					epP	05	10.52	122kmX
			S	07 33.00				eS	14	11.00		RNO	88.34	36	P	04	40.01	1.2
WARB	48.47	260	eP	00 24.30 -7.8X				sS	15	12.00		ACX	88.44	70	(P)	04	42.00	2.2
			e	05 33.00				i	16	12.00		TUC	88.65	51	iPd	04	42.10	1.5
KNA	50.36	274	eP	00 46.50 -0.1	YSS	83.78	334	iPd	04	18.09	1.8		1.8s	391.52nm				6.2mb
KKH	53.25	26	eP	01 05.76 -2.2		0.9s	330.00nm			6.2mb			Z 18s	0.37um				4.8Msz
MHA	53.77	26	iPc	01 11.35 -0.5				e	04	49.00	120kmX				epP	05	13.00	118kmX
HON	54.04	24	P+	01 24.50 10.7X				e	14	32.00		MRX	88.83	67	(P)	04	43.50	1.9
DHH	54.06	24	iPc	01 13.09 -0.9				e	15	32.00		COR	89.03	36	eP	04	42.28	0.3
HKL	54.11	26	eP	01 13.70 -1.1	IPM	84.15	279	ePd	04	18.80	-0.2				(pP)	05	11.08	109kmX
KIP	54.13	23	(P)	01 13.75 -0.7		0.9s	435.10nm			6.3mb		RTBS	89.16	126	ePc	04	45.20	2.1
	1.1s	818.76nm		6.6mb	QIZ	84.34	295	ePd	04	20.71	1.0	NNT	89.25	285	iPc	04	45.20	1.5
OPA	54.38	23	ePc	01 14.78 -1.5				esPc	05	02.59		KDC	89.44	13	iPd	04	43.59	0.0
MEEK	55.19	256	eP	01 20.00 -2.3X	BCH	84.42	44	iPd	04	21.19	1.2		1.2s	91.78nm				5.7mb
GUA	55.51	315	e(P)	01 23.30 -1.3	PET	84.46	346	eP	04	19.00	-0.6	III	89.53	69	(P)	04	47.00	1.8
	0.8s	626.87nm		6.6mb		1.0s	90.00nm			5.6mb		SSOR	89.65	36	P	04	45.44	0.3
GUMO	55 58	315	e(P)	01 18.00 -7.1X				eS	14	40.00		KMOR	89.68	35	P	04	46.07	0.9
GUMO	55.58	315	iPd	01 22.96 -2.1				ePS	15	36.00		RTCV	89.69	127	ePd	04	46.70	1.0
	1.1s	648.80nm		6.5mb	PHAM	84.67	44	eP	04	22.39	1.3	CRX	89.89	68	(P)	04	49.00	2.0
			e	01 52.59 125kmX	SAO	84.67	42	P	04	30.00	9.0X	RTLL	90.04	126	iPc	04	48.00	0.7
PJG	55.58	315	e(P)	01 23.50 -1.6		Z 18s	0.45um			4.9Msz		CFA	90.04	127	iPc	04	48.40	1.1
CSY	55.95	208	P	01 26.79 -0.4	ABL	84.73	45	iPd	04	22.56	0.9	UNM	90.25	68	(P)	04	50.50	1.9
MBL	56.02	263	eP	01 26.60 -1.7	USC	84.77	46	ePd	04	22.93	1.4	BMW	90.39	35	iPd	04	49.43	1.0
SPA	60.80	180	iPd	02 02.30 1.2	ARN	85.01	42	iPd	04	23.86	1.1	ONR	90.41	34	P	04	49.81	1.5
	1.3s	740.83nm		6.5mb	NTYM	85.08	41	iPd	04	23.99	1.0	NST	90.46	288	iPd	04	51.00	1.8
			i	02 30.90 117kmX	PLM	85.25	48	iPd	04	25.43	1.1	CROR	90.50	37	P	04	49.59	0.6
MNI	62.32	289	eP	02 10.00 -1.7				epP	04	56.19	119kmX	PPM	90.57	69	(P)	04	52.50	2.1
DAV	64.99	295	eP	02 27.50 -1.6	SSK	85.27	46	iPd	04	25.11	0.8	SHW	90.69	35	eP	04	50.58	0.7
KHKI	65.16	274	ePd	02 29.00 -1.2	PEC	85.41	47	iPd	04	25.62	0.8	ENH	90.82	305	iPd	04	51.74	1.1
			e	04 28.00 594kmX		1.0s	102 82nm			5.7mb					esPc	05	34.62	
CTB	66.15	294	ePd	02 38.00 1.4				epP	04	56.39	119kmX	VGB	90.97	36	eP	04	51.43	0.4
CGP	66.51	295	iPd	02 37.50 -1.3	SDN	85.72	10	iPd	04	25.48	-0.3	ASR	90.99	36	P	04	51.70	0.5
	0.9s	47.00nm		5.4mb		1.3s	1005.17nm			6.6mb		OXX	91.13	71	(P)	04	55.50	3.0X

LON	91.29	35	ePd	04	52.23	-0.3				PP	09	33.00			JAO	120.35	42	ePKP	10	35.50	-2.3
KHT	91.31	286	iPd	04	55.40	2.3				SKS	15	48.00			HRV	120.93	56	ePKP	10	38.10	-1.1
STW	91.35	33	P	04	54.08	1.4				S	16	40.00				Z 18s		0.34um			5.0Msz
GMW	91.36	34	iPd	04	53.44	0.7				sS	17	42.00			FRU	121.29	305	ePKP	10	39.00	-1.0
JBO	91.43	37	P	04	53.70	0.6				PS	18	30.00				1.6s		130.00nm			
MSU	91.43	46	iPd	04	54.89	1.3	CNCB	98.61	115	P	05	28.00	0.7					e	12	12.80	
IISM	91.55	69	(P)	04	57.00	2.8				i	09	30.80			BNH	121.59	53	iPKPd	10	39.99	-0.4
RSO	91.91	12	iPd	04	54.17	-1.1	LPB	98.67	114	eP	05	26.00	-1.4		CIR	122.24	213	iPKPd	10	43.50	1.1
SVW	92.01	11	iPd	04	54.81	-0.7	ZOBO	98.80	114	P	05	27.70	-0.5		MIM	123.25	53	ePKP	10	42.90	-0.7
	0.8s	29.28nm			5.6mb					SKS	16	04.00			OUE	124.11	288	ePKP	10	46.30	0.3
BJI	92.02	316	eP	04	56.50	0.6				LR	38	00.00			CBM	124.15	51	iPKPd	10	43.80	-1.5
	1.5s	460.00nm			6.5mb		ACO	99.08	53	iPd	05	28.50	0.2			Z 19s		0.22um			4.8Msz
			epP	05	33.00	142kmX	YAK	100.18	338	ePdiff	05	32.40	-0.3		BUL	124.37	211	iPKPc	10	47.20	0.5
			eSKS	15	16.00			1.5s		160.00nm			6.4mb		FRB	124.60	31	ePKPd	10	44.50	-1.1
			eS	15	48.00					i	09	35.00				1.0s		53.00nm			
			esS	16	48.00		CIT	100.51	324	ePdiff	05	35.00	0.5		MTD	125.83	216	iPKPd	10	42.90	-6.7X
			eSS	22	12.00		MIAR	102.05	57	Pdiff	05	50.00	8.3X		LMN	126.28	53	ePKPd	10	51.30	1.8
EBG	92.02	35	P	04	56.58	0.7		Z 21s		0.25um			4.7Msz		WIN	126.30	198	iPKPd	10	51.50	1.0
DUG	92.05	44	iPc	04	56.50	0.2	INK	102.84	16	ePdiff	05	45.00	0.6			0.8s		115.00nm			
	1.2s	33.41nm			5.5mb			1.0s		4.00nm			5.2mb		LSZ	128.80	213	iPKP	10	55.90	0.6
	Z 18s	0.25um			4.7Msz		BOD	103.53	329	ePdiff	05	45.70	-1.9					i	14	03.80	
MCW	92.12	33	P	04	57.09	0.8		1.0s		7.00nm			5.5mb		KBS	130.15	357	ePKP	10	55.00	-0.9
BDT	92.18	288	eP	04	51.00	-6.1X	YKA	104.61	25	ePdiff	05	51.30	-1.0		SVE	130.94	321	ePKPd	10	53.50	-4.5X
JCW	92.22	34	P	04	57.30	0.6		0.9s		2.30nm			5.2mb			1.5s		80.00nm			
WAH2	92.43	36	P	04	58.41	0.8	ZAK	105.23	319	ePdiff	05	55.00	-0.4X					e	11	39.40	
SLKM	92.44	13	ePd	04	56.75	-0.7	GRT	105.85	57	(PKP)	10	09.39	-1.3		MAIO	131.58	294	ePKP	10	45.00	-15.0X
			epP	05	28.99	124kmX	MOY	107.12	320	ePdiff	06	04.00	0.3X					i	11	01.00	
LNOR	92.51	37	P	04	58.26	0.1	KOD	107.32	272	ePKP	10	14.50	0.0					i	14	14.00	
MGD	92.69	345	eP	04	57.50	-1.1	ULM	107.45	42	ePKP	10	14.00	0.7		ARU	132.12	321	ePKP	10	59.00	-1.2
TCA	92.73	128	ePc	05	01.00	1.3	GUN	107.81	292	Pdiff	06	08.00	0.1			1.0s		100.00nm			
SRU	92.82	46	iPd	05	00.43	0.5	PKI	108.05	292	Pdiff	06	09.40	0.5		ASH	132.72	296	ePKP	10	52.50	-9.5X
WTV	92.86	35	P	04	59.87	0.2		0.8s		19.00nm			6.3mb		KEV	137.06	347	iPKP	11	08.70	-0.5
CHTO	93.01	290	iPd	05	02.24	1.3	KKN	108.25	292	Pdiff	06	10.00	0.4			1.0s		90.00nm			
	1.1s	97.71nm			6.0mb			0.8s		20.00nm			6.4mb		TRO	138.49	351	ePKP	11	06.00	-5.9X
			epP	05	28.99	100kmX	DMN	108.31	292	Pdiff	06	10.40	0.4		SDF	139.14	346	iPKP	11	05.20	-7.9X
			isPc	05	46.77			0.8s		19.00nm			6.3mb		LOF	140.57	353	ePKP	11	13.33	-2.3
HVU	93.04	43	iPd	05	01.33	0.5	GKN	108.85	292	Pdiff	06	12.00	-0.3		ABHA	141.05	263	ePKP	11	12.00	-6.4X
EMUT	93.05	45	eP	05	01.73	0.7		0.7s		15.00nm			6.3mb		MAK	141.14	303	ePKP	11	12.00	-5.4X
ALQ	93.11	51	ePd	05	01.68	0.3	GBA	108.88	275	PKP	10	17.00	0.0		MJMA	141.40	276	ePKP	11	12.00	-6.5X
	1.7s	88 97nm			5.8mb		GOGA	109.18	62	PKP	10	16.26	-0.8		AKU	141.63	13	iPKP	11	17.20	-0.4
	Z 19s	0.44um			4.9Msz			Z 21s		0.21um			4.7Msz			1.1s		35.44nm			
			epP	05	33.29	121kmX	HYB	109.58	279	ePKP	10	15.50	-2.8X		GRS	142.18	298	iPKPc	11	14.00	-5.7X
DAU	93.14	45	iPd	05	02.05	0.6	JSC	111.21	62	ePKP	10	19.98	-0.9			1.4s		200.00nm			
KMI	93.14	297	iPd	05	03.37	1.6	MBC	111.45	13	ePKPc	10	19.30	-0.8		TAB	142.20	295	iPKPd	-11	17.00	-2.7X
			esPc	05	45.75			0.7s		6.00nm					GRO	142.38	304	iPKPc	11	15.00	-4.6X
SAW	93.14	35	P	05	01.22	0.2	FCC	111.73	34	ePKP	10	26.00	4.9X			1 0s		270.00nm			
XAN	93.30	307	iPd	05	03.26	1.2	GRM	113.37	203	iPKPc	10	34.60	9.4X			Z 20s		1.00um			5.6Msz
			epP	05	34.21	118kmX		1.0s		45.00nm						N 20s		1.00um			
			(sP)	05	45.30		GRM	113.37	203	ePKP	10	25.00	-0.2		AFIF	142.75	272	iPKP	11	17.00	-4.0X
SIT	93.40	22	P	05	10.00	8.1X		1.0s		100.00nm					MTA	143.21	301	iPKPd	-11	18.00	-3.1X
	Z 20s	1 28um			5.4Msz		CEH	113.44	61	ePKP	10	23.84	-1.3			0.8s		160.00nm			
PMR	93.65	13	iPc	05	02.10	-0.8	NDI	115.16	290	iPKPd	10	28.40	-0.3		MOS	143.34	326	ePKP	11	18.00	-2.9X
	1.2s	84.73nm			6.0mb			0.5s		35.21nm						Z 16s		0.92um			5 6MszX
	Z 22s	0.27um			4.7Msz		CER	115.44	196	iPKPd	10	28.00	-1.1					e	14	28.00	
			ePP	08	45.22			1.0s		140.00nm					KAF	143.49	341	iPKP	11	16.70	-4.2X
TTA	93.67	10	eP	05	02.99	-0.2	CBN	115.50	59	ePKP	10	28.00	-1.0			0 9s		146.70nm			
	1.3s	45.47nm			5.6mb			1.0s		15.00nm					UOSK	143.93	274	iPKPc	11	21.67	-1.3
DPW	93.86	36	iPd	05	04.40	0.1	SUR	115.98	198	iPKPc	10	29.00	-1.4		PUL	143.96	336	(PKP)	11	19.00	-2.8X
KLU	94.25	15	ePd	05	05.47	-0.4		1.3s		148.00nm						1.0s		940.00nm			
NEW	94.67	36	iPd	05	07.64	-0.4	EEO	116.72	50	ePKP	10	32.50	1.4					e	11	56.00	
	0.9s	23.10nm			5.6mb		FRS	117.06	203	iPKPc	10	32.30	0.1		PYA	144.16	306	iPKP	11	20.00	-2.7X
BALM	94.70	17	iPc	05	07.80	-0.2		0.9s		108.00nm						1.0s		700.00nm			
BW06	95.55	44	iPd	05	11.74	-0.7	BLF	117.34	204	iPKPd	10	32.40	-0.6		OBN	144.17	326	iPKPd	-11	20.20	-2.1
	1.0s	22 25nm			5.6mb			0.9s		66.00nm						1.0s		450.00nm			
LRM	95.66	40	eP	05	13.00	0.1	SEK	117.52	206	iPKPc	10	34.00	0.6					e	14	35.00	
GOL	96.45	48	eP	05	17.17	0.6		0.5s		29.00nm					NSS	144.22	352	iPKPd	11	19.31	-2.8X
	1.6s	37.80nm			5.6mb		NRI	118.41	336	iPKPd	10	32.30	-1.3		KIV	144.44	306	iPKPd	11	21.90	-1.4
	Z 20s	0.35um			4.8Msz			0.8s		70.00nm						1.9s		1110.00nm			
FBA	96.91	13	eP	05	16.43	-1.3				e	11	15.00						e	11	52.10	
	0.7s	21.55nm			5.8mb					e	11	56.00			NUR	145.26	340	iPKP	11	23.20	-0.8
			ePP	09	09.00					e	21	42.00			MOL	146.57	355	ePKP	11	25.86	-0.2
ILT	96.96	360	iPd-	05	17.00	-0.8	GPD	118.46	57	ePKP	10	33.11	-1.5		SOC	146.62	306	ePKP	11	26.00	-0.8
	1.2s	25.00nm			5.6mb		PRZ	118.50	305	iPKPd	10	38.00	3.2X			1.0s		450.00nm			
			e	06	00.50	173kmX				e	17	20.00						e	14	49.00	
			e	09	10.00					e	21	40.00			UPP	147.65	345	iPKP	11	26.90	-1.0
			e	15	40.00		PRY	118.84	206	iPKPc	10	34.60	-1.3					i	11	29.50	
			eS	16	30.00			1.0s		90.00nm					FOO	147.68	357	ePKP	11	27.49	-0.4
			ePS	18	08.00		PAL	118.86	57	ePKP	10	34.54	-0.8		NB2	147.69	351	PKP	11	30.00	2.0
IMA	96.98	10	iPd	05	17.52	-0.7				epPKP	11	07.53			NAO	147.95	352	PKP	11	27.47	-0.9
	1.2s	12.78nm			5.3mb		GAC	118.91	51	ePKP	10	34.50	-0.7		ANN	147.98	309	iPKP	11	32.00	3.1X
YJA	97.48	120	e(P)	05	23.50	1.5	POF	119.05	198	iPKPc	10	37.00	1.0			1.0s		280.00nm			
LZH	97.91	307	Pd	05	24.00	0.9		1.0s		42.00nm					HFS	148.18	349	ePKP	11	26.90	-1.8
	1.6s	114.00nm			6.1mb		RSNY	119.29	53	ePKP	10	34.97	-1.1			0.9s		215.10nm			
	Z 30s	0 54um			4.9MszX		SLR	119.58	208	iPKPc	10	35.70	-1.7		BER	148.88	357	iPKPc	11	33.70	3.9X
			pP	05	59.50	138kmX		1.0s		80.00nm					MNK	149.11	330	ePKP	11	29.00	-1.4
			sP	06	16.00		KSR	120.02	206	ePKP	10	36.00	-2.2			1.0s		1580.00nm			
			i	06	42.00			1.0s		140.00nm					KONO	149.24	352	ePKPd	11	29.60	-0.8

27d 09h

			ePKPbc	11	34.23																		
			ePKPab	11	39.04																		
GAZ	149.46	294	iPKP	11	31.70	0.2	KIC	156.32	164	PKP	11	41.00	-0.9				SKO	159.69	314	iPKP	11	43.70	-1.3
KMY	150.06	356	ePKP	11	35.75	4.1X		1.3s		150.00nm								1.3s		697.00nm			
AYN	150.12	278	iPKPd	11	32.33	-0.3				e	12	11.00								i	12	25.50	
BCAO	150.54	216	iPKPd	11	33.10	-0.7	CLL	156.50	342	iPKP	11	40.70	-0.3							i	12	58.50	
	1.0s		300.00nm					1.6s		50.00nm										iPP	16	06.30	
			id	11	38.20					i	11	51.20		BHG	159.74	338	iPKPd	11	44.10	-0.7			
			id	13	16.90					i	12	10.30								i	12	25.10	
			id	15	24.90		TIC	156.53	163	PKP	11	41.00	-1.1	FUR	159.83	341	ePKP	11	44.60	-0.3			
NAOJ	150.71	280	PKP	11	39.90	6.1X	CIN	156.58	297	ePKP	11	40.00	-1.5							i	12	25.70	
SALJ	150.75	284	PKP	11	33.30	-0.4	BRG	156.63	340	iPKP	11	40.40	-0.7	HOFF	159.87	348	PKP	11	45.12	0.2			
HRI	150.76	286	ePKP	11	32.90	-0.8		1.4s		64.00nm				LIT	159.90	308	ePKP	11	43.90	-1.4			
BHL	150.84	288	PKP	11	38.00	4.2X				i	11	51.50		PTJ	160.06	330	iPKP	11	45.40	0.1			
LISJ	150.86	282	PKP	11	32.70	-1.0				i	12	11.30		KBA	160.13	336	iPKPd	11	43.80	-1.7			
DHLJ	150.89	281	PKP	11	39.90	6.1X	GZR	156.95	320	ePKPd	11	42.00	0.2		0.6s		60.80nm						
BADA	150.92	277	iPKPd	11	20.67	-13.2X	WTS	157.07	352	ePKP	11	41.50	-0.1				i	11	54.70				
ADAT	150.95	294	ePKP	11	35.70	2.0		1.0s		51.30nm							i	12	27.10				
HQL	151.00	278	ePKP	11	32.67	-1.3				e	11	52.50					iPP	16	05.70				
ADI	151.19	286	ePKP	11	33.40	-0.8				e	12	12.00					e	19	42.00				
BGIO	151.23	283	ePKP	11	33.80	-0.6	ALN	157.10	307	ePKP	11	40.54	-1.5	AGG	160.46	305	ePKP	11	45.14	-0.8			
KAS	151.42	303	iPKPd	11	33.80	-0.6	PRU	157.22	338	PKPd	11	41.30	-0.6	WLS	160.49	349	PKP	11	44.81	-0.8			
RMN	151.52	281	ePKP	11	34.10	-0.8		1.5s		37.60nm				WATA	160.49	340	iPKPd	11	44.60	-1.2			
FAM	152.19	290	ePKP	11	43.00	7.4X				i	11	52.60					i	12	28.20				
MUD	152.40	351	iPKPc	11	40.00	4.8X				e	12	13.80					i	12	43.70				
	1.2s		330.00nm							e	12	32.00					iPP	16	07.70				
			i	11	49.80					e	13	28.10		CDF	160.50	349	PKP	11	45.12	-0.6			
KIS	152.53	317	iPKPc+	11	42.00	6.3X				PP	15	49.30		WTTA	160.54	339	iPKPd	11	45.00	-0.9			
	0.8s		400.00nm				KDZ	157.23	309	ePKP	11	40.00	-2.2		0.7s		142.00nm						
			i	11	53.00		EZN	157.29	304	ePKP	11	40.90	-1.4				i	12	28.70				
			e	12	20.00		MOX	157.47	343	ePKP	11	42.20	0.0				iPP	16	07.60				
BSD	152.57	343	iPKPc	11	36.00	0.5		1.8s		45.00nm				LJU	160.55	332	ePKP	11	45.00	-0.7			
	1.3s		89.00nm					Z 20s		0.20um			4.9Msz				e	12	27.50				
BSD	152.57	343	iPKPd	11	43.00	7.5X				i	11	53.90		FLN	160.55	4	iPKPd	11	45.60	0.0			
	1.0s		279.00nm							i	12	14.50			1.2s		81.20nm						
			i	11	53.00		BUD	157.48	328	e(PkP)	11	42.00	-0.3		Z 22s		2.00um						
COP	152.60	347	iPKPd	11	43.00	7.5X	SRO	157.56	330	iPKP	11	42.80	0.4	OHR	160.55	312	iPKP	11	44.70	-1.2			
	0.7s		169.86nm							i	11	53.70			1.2s		60.00nm						
			i	11	53.70		RZN	157.69	310	iPKP	11	41.00	-2.0				i	12	28.00				
CSS	152 74	290	ePKP	11	43.80	7.4X	ZST	157.77	332	ePKP	11	41.60	-1.0	RBL	160.59	335	PKP	11	44.60	-1.2			
EAB	152.84	7	ePKP	11	42.10	6.3X				i	12	15.10		MOTA	160.62	340	iPKPd	11	44.90	-1.1			
EBH	152.87	6	ePKP	11	42.40	6.5X				e	15	55.90			0.9s		178.00nm						
	1 1s		177.00nm				VKA	158.03	333	ePKP	11	42.00	-0.9				i	12	28.70				
EDI	153.22	6	ePKP	11	43.40	7.1X				i	12	17.80					i(PP)	16	09.50				
EAU	153.27	6	ePKP	11	43.70	7.3X				i	12	19.10		VBY	160.68	330	ePKP	11	45.50	-0.3			
	1 2s		138.00nm				BNS	158.03	351	iPKPc	11	43.10	0.3				ePKPab	12	29.00				
PPCY	153 55	290	ePKP	11	45.50	8.0X	VTS	158.25	313	ePKP	11	42.00	-1.6	SQTA	160.70	340	iPKPd	11	45.00	-1.0			
PPE	153.68	317	ePKP	11	46.00	8.7X	KHC	158.28	339	PKP	11	43.00	-0.2		0.9s		167.00nm						
CLI	153 71	318	ePKP	11	38.00	0.6		1.1s		20.50nm							i	12	29.10				
ERA	153.81	6	PKP	11	38.00	0.8				e	11	55.60					iPP	16	07.30				
	0.8s		8.10nm							e	12	06.00		ECH	160.71	349	PKP	11	45.06	-0.8			
CFR	153 86	314	ePKP	11	37.00	-0.6				e	12	18.90		LDF	160.74	4	iPKPd	11	45.60	-0.2			
GPA	154.23	303	ePKP	11	35.70	-2.6X				e	12	29.00			1.2s		48.80nm						
EYL	154 27	303	ePKP	11	36.60	-1.9				e	12	50.00		FVI	160.75	336	PKP	11	44.70	-1.1			
BRD	154.38	316	ePKP	11	40.00	1.7				e	13	13.00		VQY	160.81	333	ePKP	11	45.50	-0.6			
HRT	154.55	304	ePKP	11	37.60	-1.1	ENN	158.38	353	ePKP	11	34.00	-9.2X				e	12	06.00				
DMU	154 68	12	ePKP	11	41.00	2.6X		1.0s		30.00nm							ePKPab	12	27.20				
	1 1s		73.00nm							e	12	18.00		CEY	160.84	332	ePKP	11	45.80	-0.3			
ALT	154.70	300	ePKP	11	38.00	-1.1	MMB	158.39	310	ePKP	11	42.00	-1.6				iPKPab	12	29.00				
CVO	154.75	317	ePKP	11	42.00	3.2X	SOP	158.40	332	ePKP	11	48.00	4.6X	FEL	160.88	347	PKP	11	45.63	-0.5			
YLV	154.84	304	ePKP	11	37.60	-1.6	GRF	158.45	343	iPKPd	11	43.30	-0.1	VITF	160.89	351	PKP	11	45.47	-0.5			
MLR	155.06	317	ePKPc	11	39.00	-0.4		Z 26s		0.20um			4.8MszX	SLE	160.89	346	ePKPc	11	45.90	-0.1			
UZH	155.12	326	ePKP	11	38.70	-0.4				id	12	19.30		GRR	160.89	5	iPKPd	11	45.90	-0.1			
			i	12	13.00		GEC2	158.49	338	PKP	11	43.29	-0.3		1.2s		59.80nm						
			i	12	24.00		UCC	158.49	355	PKP	11	43.00	-0.3	HAU	161.04	350	iPKPd	11	45.90	-0.3			
			e	15	38.00					e+	12	19.00			1.4s		55.75nm						
DCN	155.14	13	ePKP	11	42.00	3.0X	TNS	158.55	348	ePKPc	11	44.00	0.5		Z 24s		0.15um						
BMR	155.15	323	ePKPd	11	45.00	5.8X				ePKPab	12	18.30		MOF	161.07	349	PKP	11	46.03	-0.3			
ELL	155.32	295	iPKP	11	39.10	-0.9	KKB	158.69	312	ePKP	11	42.00	-1.9	OGA	161.08	340	iPKPc	11	46.70	0.2			
KHL	155.32	299	iPKP	11	39.50	-0.4	OUR	158.76	307	ePKP	11	42.06	-1.9				i	12	31.20				
DLF	155.33	12	ePKP	11	39.60	0.3	SNF	158.78	355	iPKPd	11	43.45	-0.2	BSF	161.14	349	PKP	11	45.72	-0.7			
	1 2s		85.00nm							ec	12	20.00		ZLA	161.18	346	ePKPc	11	46.30	-0.1			
DMK	155.56	308	ePKP	11	39.00	-1.0	KDS	158.86	139	iPKPd	11	45.30	0.5	LPF	161.23	6	iPKPd	11	46.20	-0.1			
KCT	155.67	304	ePKP	11	38.60	-1.7	KMR	159.02	336	iPKP-	11	44.20	0.2		1.2s		69.60nm						
SPC	155.67	330	ePKP	11	40.90	0.7				i	12	23.00		OSS	161.49	341	ePKPc	11	46.90	0.0			
			ipPKP	12	14.90					ipPKP	12	54.70		LOMF	161.60	349	PKP	11	46.69	-0.2			
			iPP	15	48.60					ePP	16	02.00		CTI	161.61	338	PKP	11	46.60	-0.3			
CMP	155.72	317	ePKPc	11	46.00	5.8X	PAIG	159.14	306	ePKP	11	42.70	-1.7	LLS	161.62	344	ePKPc	11	47.10	0.1			
KSP	155.91	337	iPKPd	11	39.70	-0.5	KNT	159.14	310	ePKP	11	42.74	-1.7	LOR	162.04	355	iPKPd	11	47.20	0.0			
	0.8s		367.00nm				DOU	159.17	355	PKPc	11	44.40	0.3		1.3s		59.20nm						
			id	11	50.30					e	12	22.50		SSF	162.27	356	iPKPd	11	47.50	0.1			
			ic	12	08.30		VAY	159.29	311	iPKP	11	42.70	-1.8		1.4s		97.15nm						
			i	12	40.20			1.3s		434.00nm				LBF	162.32	355	iPKPd	11	47.50	0.0			
			e	15	39.80					i	12	23.40			1.5s		84.60nm						
TNR	155.95	319	ePKPc	11	38.00	-2.5X	WLF	159.44	352	PKPc	11	44.00	-0.4	TMA	162.37	343	ePKPc	11	47.60	-0.2			
LIC	156.12	163	PKP	11	40.80	-0.8				ic	12	23.19		AVF	162.55	356	iPKPd	11	47.50	-0.2			
	Z 22s		0.14um			4.7Msz	GRG	159.57	310	ePKP	11	43.70	-1.2		1.3s		45.85nm						
														VAI	162.62	343	PKP	11	47.50	-0.2			
														MMK	162.63	345	ePKPc	11	48.80	0.7			

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SMF    162.66 355 iPKPd 11 47.70  -0.1
         1.1s     29.30nm
DIX    162.72 347 ePKPc 11 48.80   0.5
MFF    162.72   4 iPKPd 11 48.10   0.2
         1.4s     90.60nm
BGF    162.81 357 iPKPd 11 48.10   0.1
         1.4s     89.30nm
TCF    163.09 359 iPKPd 11 48.40   0.1
         1.3s     60.30nm
LSF    163.14   0 iPKPd 11 48.30   0.0
MAF    163.15 358 iPKPd 11 48.40   0.1
         1.5s     28.75nm
ARV    163.27 331 PKP   11 49.00   0.5
AGO    163.30 357 PKP   11 48.69   0.2
PLDF   163.35 355 PKP   11 48.82   0.2
SFI    163.37 334 PKPc  11 49.10   0.6
LPL    163.40 348 iPKPd 11 49.00   0.1
         1.0s     14.40nm
LPG    163.41 348 iPKPd 11 49.00   0.0
         1.1s     24.90nm
BOB    163.45 340 PKP   11 30.50 -18.3X
PYM    163.61 357 PKP   11 49.09   0.2
FIR    163.72 335 e(PKP)11 37.00 -11.9X
                  i    12 42.50
RJF    164.08   1 iPKPd 11 49.40   0.1
         1.4s     94.55nm
       Z  22s      0.25um
ROI    164.10 314 PKP   11 50.10   0.6
LBL    164.11 356 PKP   11 49.50   0.1
STS    164.17  29 iPKPc 11 50.06   0.7
TDS    164.19 314 PKP   11 49.60   0.1
SGO    164.25 319 PKP   11 48.80  -0.7
SDI    164.26 325 PKP   11 49.00  -0.6
MNS    164.28 329 PKP   11 48.80  -0.8
MGR    164.38 317 PKP   11 48.60  -1.1
LFF    164.43   3 iPKPd 11 49.90   0.3
         1.3s     57.40nm
CAF    164.46 359 iPKPd 11 50.10   0.4
         1.3s     44.05nm
CZI    164.58 313 PKP   11 48.80  -1.0
SAOF   164.68 344 PKP   11 48.82  -1.1
LPO    164.70   1 iPKPd 11 50.40   0.6
         1.4s     60.10nm
AUTN   164.70 344 PKP   11 49.73  -0.4
SBF    164.82 344 iPKPd 11 49.50  -0.6
         0.8s     35.20nm
AURF   164.83 344 PKP   11 48.52  -1.6
ERUA   165.15  26 iPKPd 11 50.70   0.4
SOI    165.26 310 PKP   11 51.30   0.8
FRF    165.29 346 iPKP  11 50.00  -0.4
PGF    165.59 338 iPKPd 11 50.20  -0.6
         1.1s     41.50nm
EPF    166.31   4 iPKPd 11 51.80   0.5
         1.4s     74.95nm
ECRI   166.34  13 ePKP  11 52.06   0.7
EGRA   167.08   7 iPKPc 11 51.88   0.1
EPLA   167.54  29 iPKPc 11 52.85   0.6
GUD    167.76  22 iPKPd 11 53.26   0.7
ETOR   168.16  14 iPKPd 11 52.93   0.2
PAB    168.67  25 iPKPd 11 54.41   1.3
                  ipP'df12 24.37
                  iPKPab13 07.25
EVAL   169.17  39 iPKPd 11 53.68   0.4
ECHE   169.55  12 ePKP  11 54.00   0.4
EHOR   169.75  33 ePKP  11 54.35   0.7
EBAN   170.09  26 iPKPd 11 54.58   0.7
EVIA   170.10  20 ePKP  11 54.90   0.9
ELUO   170.41  30 ePKP  11 54.74   0.6
EPRU   170.43  36 ePKP  11 54.47   0.4
EJIF   170.70  39 ePKP  11 54.90   0.7
EJIF   170.70  39 iPKPd 11 54.98   0.8
ACU    170.70  10 ePKP  11 55.59   1.4
ECOG   170.95  28 ePKP  11 54.35  -0.1
MAL    171.03  33 iPKPc 11 55.40   1.1
                  i    13 15.50
EALH   171.13  16 ePKP  11 55.43   1.1
AVE    171.25  61 iPKPc 11 49.50  -5.0X
                  i    12 56.50
EGUA   171.33  29 iPKPc 11 54.08  -0.4
EGUA   171.33  29 iPKPc 11 54.80   0.3
ENIJ   171.72  22 iPKP  11 55.13   0.5
TIO    172.06  76 iPKPd 11 56.50   1.4
     S.D. = 1.0  on 415 of 508 obs.
-----------------------------------------
   MAY  27, 1993  08h 52m 14.96± 0.98s
   39.397 N ± 7.0km  143.852 E ±11.9km
   DEPTH =  33.0km  (normal)
     4.7mb (  4 obs.)
 OFF EAST COAST OF HONSHU, JAPAN (229)

OFUJ     1.72 260 P      52 42.70  -0.4
AOMJ     2.91 295 eP     52 59.30  -0.7
HOOJ     3.01 352 eP     53 01.00  -0.4
                  eS     53 34.10
YAMJ     3.22 249 P      53 04.40   0.0
MRRJ     3.69 326 eP     53 12.00   1.1
                  eS     53 50.30
KUSJ     3.75  10 eP     53 10.80  -1.1
                  eS     53 52.10
KAKJ     4.32 224 eP     53 19.60  -0.3
                  eS     54 07.40
NIIJ     4.38 242 eP     53 21.70   0.8
ASAJ     4.80 350 eP     53 26.70  -0.1
CHJJ     5.10 231 P      53 30.90  -0.2
MAT      5.29 239 eP     53 30.00  -3.8X
       0.5s     64.79nm          5.4mb X
                  eS     54 34.00
MTMJ     5.54 241 eP     53 37.80   0.5
TSRJ     7.35 241 P      53 48.40 -14.2X
YONJ     9.28 246 P      54 29.80   0.3
TKSJ     9.54 239 P      54 31.80  -1.3
GUN     48.85 275 P      01 00.20   0.5
       0.6s     17.00nm          5.3mb
KKN     49.37 275 P      01 03.20  -0.4
       0.5s     14.00nm          5.2mb
PKI     49.38 275 P      01 03.20  -0.6
DMN     49.60 275 P      01 05.80   0.4
GKN     49.77 276 P      01 07.00   0.5
BKS     69.84  57 ePc    03 35.09  10.8X
       Z  17s      0.40um          4.7MszX
                  epPc   04 27.09 221kmX
                  eSKS   14 42.09
                  iS     14 49.09
                  isS    15 46.09
                  eSS    20 26.09
                  e      26 51.09
                  e      30 13.09
MHC     70.53  57 e(P)   03 38.14   9.4X
       Z  17s      0.50um          4.8MszX
                  ePPc   04 31.14
HFS     72.71 336 eP     03 42.00   0.9
       0.4s      0.80nm          4.0mb
NB2     72.74 338 P      03 42.10   0.8
       0.8s      2.30nm          4 2mb
     S.D. = 0.7  on  20 of  24 obs.
-----------------------------------------
?  MAY  27, 1993  08h 55m 18.08± 4.87s
   39.506 N ±38.0km   29.509 E ±24.1km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.7 (ISK).

DST      0.69 279 ePg    55 31.60  -0.1
                  eSg    55 42.60
YLV      1.06 354 ePn    55 38.10  -0.1
EYL      1.17  25 ePn    55 40.00   0.0
KGT      1.94 300 ePn    55 51.60   0.2
     S.D. = 0.3  on   4 of   4 obs.
-----------------------------------------
%  MAY  27, 1993  08h 59m 16.59± 0.81s
   43.084 N ±14.6km    0.611 W ± 6.1km
   DEPTH =  10.0km  (geophysicist)
 PYRENEES                          (378)
      ML 1.0 (STR).

ESCF     0.03 101 Pg     59 18.24  -0.4
                  Sg     59 19.79
ATE      0.07 272 Pg     59 18.54  -0.4
                  Sg     59 19.79
OGE      0.13  50 Pg     59 20.04   0.3
ISSF     0.15 248 Pg     59 20.45   0.3
                  Sg     59 23.27
MADF     0.16 292 Pg     59 20.29  -0.1
                  Sg     59 23.18
     S.D. = 0.5  on   5 of   5 obs.
-----------------------------------------
?  MAY  27, 1993  09h 02m 18.10± 1.08s
   39.098 N ± 7.9km   27.531 E ±13.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.8 (ISK).

IZM      0.73 197 ePg    02 32.50   0.0
                  eSg    02 44.50
EZN      1.18 308 ePn    02 39.90  -0.2
KCT      1.31  29 ePn    02 42 10  -0.3
KGT      1.36 353 iPn    02 43.60   0.5
     S.D. = 0.6  on   4 of   4 obs.
-----------------------------------------
?  MAY  27, 1993  09h 16m 32.50± 3.13s
   39.625 N ±23.9km   29.505 E ±16.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.6 (ISK).

DST      0.68 269 ePg    16 46.00   0.0
                  eSg    16 57.50
YLV      0.95 354 ePn    16 50.60   0.0
EYL      1.06  28 ePn    16 52.60   0.0
KCT      1.08 306 iPn    16 52.80   0.0
     S.D. = 0.1  on   4 of   4 obs.
-----------------------------------------
?  MAY  27, 1993  09h 56m 15.64± 1.02s
   40.087 N ±12.7km   26.958 E ± 9.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.7 (ISK).

KGT      0.45  36 iPg    56 24.60  -0.2
EZN      0.55 242 Pg     56 26.90   0.1
                  eSg    56 36.40
KCT      1.08  81 iPn    56 36.60   0.6
DST      1.37 110 ePn    56 40.40  -0.5
     S.D. = 0.8  on   4 of   4 obs.
-----------------------------------------
%  MAY  27, 1993  10h 06m 07.69± 0.87s
   39.219 N ± 7.0km   27.609 E ± 8.5km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)

IZM      0.86 198 ePg    06 24.50   0.2
                  eSg    06 35.50
DST      0.88  64 ePn    06 24.40  -0.2
EDC      1.14  10 ePn    06 29.00  -0.1
EZN      1.16 302 ePn    06 29.00  -0.4
KGT      1.25 349 iPn    06 31.50   0.5
     S.D. = 0.5  on   5 of   5 obs.
-----------------------------------------
?  MAY  27, 1993  10h 16m 05.40± 1.63s
   43.946 N ±27.8km  150.079 E ±18.9km
   DEPTH =  33.0km  (normal)
     3.9mb (  3 obs.)
 EAST OF KURIL ISLANDS             (222)

KUSJ     4.00 260 eP     17 04.60  -1.2
                  eS     17 45.70
HOOJ     5.21 255 eP     17 23.60   0.6
                  eS     18 20.10
ASAJ     5.37 274 eP     17 26.50   1.3
MRRJ     6.76 260 eP     17 44.50  -0.3
OFUJ     7.96 235 P      18 01.90   0.2
                  eS     19 25.90
YKA     54.45  35 eP     25 32.20   0.9
       0.7s      0.50nm          3.7mb
NB2     70.16 340 P      27 12.60  -3.7X
       0.5s      0.90nm          4.1mb
GEC2    80.00 332 eP     28 11.30  -1.4
       0.5s      0.67nm          3.9mb
                  e      28 15.80
                  e      28 25.10
     S.D. = 1.3  on   7 of   8 obs.
-----------------------------------------
%  MAY  27, 1993  10h 16m 18.86± 0.88s
   39.123 N ± 7.3km   27.566 E ± 8.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.7 (ISK).

IZM      0.76 198 ePg    16 33.60  -0.2
                  eSg    16 45.60
DST      0.95  59 ePn    16 37.40   0.3
EZN      1.19 307 ePn    16 41.50   0.5
KCT      1.28  28 ePn    16 42.50  -0.1
KGT      1.34 351 iPn    16 43.00  -0.6
     S.D. = 0.6  on   5 of   5 obs.
-----------------------------------------
%  MAY  27, 1993  10h 20m 07.60± 0.88s
   39.129 N ± 7.1km   27.617 E ± 8.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.8 (ISK).
```

27d 10h

IZM 0.78 201 ePg 20 22.60 -0.2
eSg 20 34.60
DST 0.92 58 iPn 20 25.40 0.2
EZN 1.22 305 iPn 20 31.00 0.7
EDC 1.23 9 ePn 20 30.00 -0.5
KCT 1.26 27 iPn 20 31.50 0.6
KGT 1.34 350 iPn 20 31.50 -0.8
S.D. = 0.8 on 6 of 6 obs.

% MAY 27, 1993 10h 59m 35.21± 1.85s
45.552 N ±20.1km 25.344 E ±15.6km
DEPTH = 10.0km (geophysicist)
ROMANIA (358)

CMP 0.36 217 iPc 59 44.00 1.4
MTUR 0.38 211 iPc 59 41.50 -1.6
MLR 0.43 98 iPd 59 41.60 -2.3X
CVO 0.64 65 iPd 59 48.00 -0.1
ISR 0.94 116 ePc 59 53.50 0.3
VRI 1.02 71 iPc 59 54.40 -0.1
CLI 1.68 53 iPd 59 42.10 -22.7X
GZR 1.81 266 ePd 00 14.00 7.2X
S.D. = 1.5 on 5 of 8 obs.

• MAY 27, 1993 11h 08m 23.81± 1.00s
53.167 N ±15.4km 162.103 W ±10.5km
DEPTH = 33.0km (normol)
4.0mb (9 obs.)
SOUTH OF ALASKA (17)

SDN 2.37 23 eP 09 02.46 1.3
ADK 8.99 268 eP 10 35.09 0.9
KLU 12.05 40 eP 11 13.88 -2.2X
BALM 13.28 46 (P) 11 31.59 -0.8
IMA 13.60 15 (P) 11 35.57 -1.1
0.7s 1.88nm 4.1mb
INK 20.32 31 eP 13 00.50 1.2
0.6s 2.00nm 3.6mb
YKA 26.36 50 eP 13 59.70 1.5
0.8s 2.20nm 3.8mb
MBC 28.23 20 eP 14 16.50 1.4
0.7s 1.00nm 3.6mb
NEW 28.53 82 eP 14 18.00 -0.1
0.9s 7.02nm 4.4mb
BW06 35.92 85 eP 15 23.00 0.0
0.7s 1.17nm 3.9mb
ULM 39.83 67 eP 15 58.00 2.7X
FRB 45.69 38 eP 16 43.00 0.3
JAO 48.29 52 eP 17 02.50 -0.8
KAF 64.87 356 eP 19 00.00 -1.3
0.5s 2.60nm 4.6mb
NB2 66.02 4 P 19 07.80 -0.9
0.5s 0.60nm 3.9mb
HFS 67.00 2 eP 19 13.30 -1.6
0.5s 1.90nm 4.5mb
S.D. = 1.2 on 14 of 16 obs.

? MAY 27, 1993 11h 42m 59.10± 3.00s
3.301 S ±23.2km 100.838 E ±25.3km
DEPTH = 58.5 ± 23.6 km
5.1mb (2 obs.)
SOUTHERN SUMATERA, INDONESIA (274)

KSI 1.78 101 eP 43 28.00 0.0
e 44 00.00
IPM 7.83 1 eP 44 52.90 0.0
PKI 34.11 335 P 49 41.60 0.8
GUN 34.21 336 P 49 41.40 -0.3
DMN 34.27 335 P 49 42.40 0.3
KKN 34.35 335 P 49 42.40 -0.4
GKN 34.81 334 P 49 46.20 -0.4
0.4s 19.00nm 5.4mb
LZH 39.28 4 eP 50 24.00 -0.1
1.5s 27.00nm 4.9mb
BJI 45.37 17 eP 51 13.50 0.1
Z 20s 0.30um 4.2Msz
S.D. = 0.5 on 9 of 9 obs.

% MAY 27, 1993 11h 48m 28.79± 0.79s
44.336 N ± 5.0km 6.282 E ±10.1km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.3 (LDG).

CDR 0.76 210 ePg 48 44.10 0.5
i 48 45.30
e(Sg) 48 55.10
e 48 55.90
i 48 56.50
FRF 0.82 161 Pg 48 44.40 -0.2
Sg 48 55.50
LRG 0.88 176 Pg 48 45.40 -0.3
Sg 48 57.90
SBF 0.96 119 Pg 48 48.00 1.0
Sg 49 01.20
LPG 1.21 16 Pn 48 51.40 -0.1
Pg 48 54.20
Sg 49 11.00
LPL 1.22 15 Pn 48 51.70 0.0
Pg 48 53.40
Sg 49 10.00
PGF 2.67 131 Pn 49 11.90 -0.8
Sn 49 42.00
S.D. = 0.7 on 7 of 7 obs.

% MAY 27, 1993 12h 09m 25.47± 0.85s
26.258 S ± 7.3km 27.744 E ± 9.5km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 3.0 (PRE).

PRY 0.71 200 iPc 09 40.70 1.0
S 09 48.90
SLR 0.71 43 eP 09 40.00 0.3
S 09 49.00
KSR 0.86 297 eP 09 42.00 -0.6
S 09 53.00
SEK 2.06 183 eP 10 01.00 -0.3
S 10 25.50
SWZ 2.35 246 eP 10 06.90 1.4
S 10 34.70
BLF 3.16 206 iPc 10 16.00 -0.9
FRS 4 08 211 e(P) 10 29.00 -0.9
S 11 14.50
S.D. = 1.1 on 7 of 7 obs.

% MAY 27, 1993 13h 06m 18.79± 0.84s
39.218 N ± 6.7km 27.794 E ± 7.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

DST 0.75 59 ePg 06 33.20 -0.4
IZM 0.92 207 ePg 06 36.50 0.1
eSg 06 51.50
KCT 1.12 23 iPn 06 40.20 0.5
EDC 1.13 3 ePn 06 40.00 0.1
EZN 1.29 299 iPn 06 42.50 -0.1
KGT 1.29 343 ePn 06 42.50 -0.2
S.D. = 0.4 on 6 of 6 obs.

? MAY 27, 1993 13h 40m 12.33± 5.33s
37.763 S ±38.2km 176.475 E ±21.5km
DEPTH = 193.6 ± 40.1 km
NORTH ISLAND, NEW ZEALAND (159)

URZ 0.71 135 Pc 40 39.70 -0.1
S 40 52.20
PAHZ 1.19 158 P 40 42.90 -0.2
NOZ 1.50 125 P 40 46.20 0.5
TTH 1.80 171 P 40 48.90 0.3
MAHZ 1.80 143 eP 40 48.20 -0.5
WAHZ 1.94 183 P 40 50.30 0.2
TEHZ 2.24 173 P 40 53.10 -0.2
MNG 2.95 195 P 41 01.80 0.3
S 41 32.30
CAW 3.51 198 P 41 08.50 0.2
MRW 3.73 201 eP 41 10.50 -0.5
TCW 3.84 206 eP 41 12.50 0.1
S.D. = 0.4 on 11 of 11 obs.

% MAY 27, 1993 13h 58m 50.68± 0.64s
26.911 S ± 6.5km 26.714 E ± 5.9km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.7 (PRE).

BFS 0.06 79 eP 58 52.00 -0.4
PRY 0.68 92 eP 59 04.00 -0.3
S 59 10.30
KSR 1.05 9 eP 59 11.50 0.4
S 59 23.50
SWZ 1.27 257 eP 59 14.90 0.1
S 59 30.20
SEK 1.62 150 eP 59 21.50 1.3
S 59 44.00
SLR 1.83 51 iPc 59 23.00 -0.2
S 59 44.00
BLF 2.24 192 eP 59 29.00 -0.1
S 00 00.50
FRS 3.08 203 eP 59 40.00 -0.9
S 00 16.00
S.D. = 0.8 on 8 of 8 obs.

? MAY 27, 1993 14h 09m 14.06± 6.38s
18.209 N ±22.0km 76.693 W ±46.0km
DEPTH = 10.0km (geophysicist)
JAMAICA REGION (86)
MD 2.8 (HOJ).

STH 0.17 222 iPc 09 17.21 -0.8
S 09 25.02
HOJ 0.21 195 iPc 09 18.37 -0.3
S 09 25.62
BBJ 0.57 288 iPc 09 25.65 -0.1
S 09 41.34
PCJ 0.65 224 iPc 09 28.04 1.0
S.D. = 1.3 on 4 of 4 obs.

MAY 27, 1993 14h 53m 12.26± 1.44s
34.907 N ±10.9km 139.199 E ±10.8km
DEPTH = 15.5 ± 6.5 km
3.9mb (1 obs.)
NEAR S. COAST OF HONSHU, JAPAN (230)

CHJJ 1.15 352 P 53 32.30 -1.0
S 53 46.90
IIDJ 1.20 299 P 53 33.90 -0.3
S 53 49.10
KAKJ 1.52 31 P 53 38.30 -0.5
eS 53 58.80
MAT 1.82 334 iPc 53 43.60 0.4
iS 54 06.30
MTMJ 2.02 326 P 53 47.10 0.9
S 54 13.70
TSRJ 2.71 284 P 53 56.10 0.2
eS 54 33.60
WKYJ 3.05 258 P 54 00.80 0.0
eS 54 35.80
YAMJ 3.33 11 P 54 04.50 -0.2
TKSJ 4.35 259 eP 54 19.10 -0.2
eS 55 03.60
OFUJ 4.61 25 P 54 22.00 -0.9
S 55 15.20
YONJ 4.71 275 eP 54 23.80 -0.6
AOMJ 5.72 9 eP 54 39.70 1.1
SHNJ 6.72 266 eP 54 52.50 -0.3
KUMJ 7.36 254 P 55 01.80 0.1
KAGJ 7.90 244 P 55 09.10 -0.1
NB2 75.44 337 P 04 58.30 1.4
0.7s 0.90nm 3.9mb
S.D. = 0.8 on 16 of 16 obs.

& MAY 27, 1993 14h 58m 00.50s
60.951 N 147.320 W
DEPTH = 15.6km
SOUTHERN ALASKA (2)
<AEIC>. ML 2.7 (AEIC).

VLZ 0.51 69 iPc 58 10.12 -0.5
eS 58 17.65
HIN 0.69 144 iPc 58 13.04 -0.6
eS 58 23.25
PTE 0.84 265 iPc 58 15.07 -1.1
eS 58 26 42
KLU 0.87 51 iPc 58 15 64 -1.2
eS 58 27.51
CVA 0.87 117 iPc 58 15.78 -1.0
SCM 0.89 360 iPd 58 16.09 -1.0
eS 58 27.87
SML 0.99 331 iPd 58 17.67 -1.2
eS 58 31.30
PLRM 1.09 307 ePc 58 18.98 -1.4
eS 58 33.71
PMR 1.09 307 eP 58 18.48 -1.9
eS 58 32.91
MPA 1.10 246 iPc 58 19.07 -1.7
eS 58 34.10
PMS 1.13 286 P 58 19.70 -1.5
S 58 35.30
GHO 1.13 318 iPd 58 20.09 -1.2

		eS	58 35.53		
SGAM	1.13 113	iPc	58 19.87	-1.4	
		eS	58 35.62		
SEW	1.35 232	iPc	58 22.49	-2.2	
		eS	58 39.74		
RAGM	1.42 112	ePc	58 24.26	-1.4	
PWA	1.42 301	P	58 24.60	-1.0	
TZL	1.43 39	iPc	58 25.29	-0.4	
SLKM	1.49 254	iPc	58 24.97	-1.7	
SUA	1.74 289	ePc	58 29.00	-1.3	
GLB	1.77 72	iPc	58 29.39	-1.4	
		eS	58 52.56		
SDG	1.79 27	ePd	58 30.33	-0.7	
		eS	58 53.12		
NKA	1.93 266	eP	58 32.66	-0.3	
CROM	2.06 94	eP	58 33.60	-1.4	
BRLK	2.13 238	eP	58 33.93	-2.1	
		eS	58 58.26		
TGL	2.21 93	ePc	58 35.18	-2.0	
PAX	2.21 23	eP	58 36.74	-0.4	
		eS	59 04.59		
SKT	2.27 299	iPc	58 35.93	-2.0	
CGLM	2.30 281	iPc	58 36.26	-2.2	
HUR	2.31 333	eP	58 38.13	-0.4	
		eS	59 06.90		
SPU	2.31 278	iPc	58 36.10	-2.5	
CPAM	2.36 280	ePc	58 37.25	-2.1	
CRP	2.37 280	ePc	58 37.51	-2.0	
CNPM	2.42 236	iPc	58 37.48	-2.6	
		eS	59 05.84		
BALM	2.43 86	eP	58 38.28	-2.0	
		eS	59 07.65		
CKL	2.45 278	eP	58 38.05	-2.5	
BGL	2.48 279	eP	58 38.62	-2.4	
DFR	2.66 265	eP	58 40.59	-3.0	
RSO	2.72 262	eP	58 40.90	-3.6	
RDW	2.74 263	eP	58 41.57	-3.2	
NCT	2.78 264	eP	58 42.43	-2.9	
YAH	2.81 100	eP	58 43.91	-1.9	
CTGM	2.92 87	eP	58 46.60	-0.7	
ILIM	2.92 255	P	58 44.00	-3.2	
AUL	3.44 245	eP	58 52.88	-1.6	
SYI	3.48 230	eP	58 53.04	-1.9	
CDD	3.77 240	eP	58 56.34	-2.9	

46 obs. associated

% MAY 27, 1993 15h 11m 05.30± 0.81s
41.116 N ± 8.6km 28.460 E ± 7.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

CTT	0.04 324	iPg	11 07.30	-0.1	
ISK	0.46 96	iPg	11 13.90	-0.7	
		iSg	11 20.90		
KCT	0.87 185	iPg	11 21.90	-0.1	
DMK	0.88 323	iPg	11 22.30	0.1	
		iSg	11 35.30		
HRT	0.96 107	iPg	11 24.40	0.8	
		eSg	11 38.40		

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

% MAY 27, 1993 15h 47m 26.49± 1.05s
44.257 N ± 7.0km 7.660 E ± 9.6km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.1 (LDG).

SBF	0.43 202	Pg	47 34.80	-0.4	
		Sg	47 40.60		
FRF	1.01 227	Pg	47 46.20	0.6	
		Sn	47 59.60		
LRG	1.24 230	Pg	47 49.30	-0.1	
		Sg	48 05.60		
LMR	1.24 222	Pg	47 49.20	-0.4	
		Sg	48 05.50		
LPG	1.40 333	Pg	47 52.10	-0.2	
		Sg	48 09.60		
CDR	1.49 248	eP	47 53.60	0.3	
		e	48 11.90		
PGF	1.97 150	Pn	48 00.50	0.2	
		Sn	48 23.10		

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

MAY 27, 1993 15h 50m 07.15± 0.44s
39.565 N ± 5.2km 25.113 E ± 3.3km
DEPTH = 14.0 ± 2.6 km

AEGEAN SEA (365)
ML 3 7 (ATH).

PRK	0.95 109	eP	50 26.40	1.5	
		eS	50 41.40		
EZN	0.97 74	iPn	50 25.60	0.4	
OUR	1.16 312	ePb	50 30.00	1.6	
PAIG	1.16 289	ePb	50 28.00	-0.5	
		eSb	50 46.32		
RDO	1.61 11	eP	50 35.50	0.3	
SOH	1.84 314	ePn	50 40.80	2.2	
KGT	1.90 62	iPn	50 39.40	0.0	
ATH	1.93 215	eP	50 40.20	0.4	
SRS	1.94 324	ePn	50 42.60	2.6X	
		eSn	51 11.50		
THE	1.96 304	ePn	50 42.00	1.7	
IZM	2.04 124	ePn	50 40.20	-1.3	
LIT	2.09 286	ePn	50 42.50	0.3	
KDZ	2.10 6	iPc	50 41.00	-1.2	
RZN	2.14 352	iPc	50 42.00	-1.1	
AGG	2.23 257	iPn	50 42.68	-1.5	
EDC	2.25 69	ePn	50 45.00	0.5	
MMB	2.28 333	iP	50 43.00	-1.9	
KNT	2.33 314	ePn	50 47.10	1.5	
		eSn	51 20.30		
GRG	2.50 305	ePn	50 49.00	1.0	
PLD	2.56 353	iP	50 49.00	0.2	
KCT	2.59 74	ePn	50 49.90	0.6	
VAY	2.62 313	iPn	50 56.50	6.8X	
KZN	2.67 287	eP	50 50.10	-0.5	
DST	2.72 88	ePn	50 52.00	0.8	
KKB	2.77 327	iP	50 50.00	-1.9	
CTT	2.99 57	ePn	50 54.40	-0.5	
DMK	3.02 41	ePn	50 53.80	-1.6	
CIN	3.05 129	eP	50 55.00	-0.7	
PGB	3.07 347	eP	50 55.00	-1.1	
VTS	3.35 335	eP	51 01.00	0.8	
YLV	3.42 72	ePn	51 01.40	0.3	
SKO	3.68 312	iPn	51 04.00	-0.8	
HRT	3.71 69	ePn	51 05.00	-0.3	
ALT	3.91 96	ePn	51 08.00	-0.1	
EYL	4.00 74	eP	51 10.40	1.0	
CMP	5.70 359	eP	52 02.00	28.6X	
MLR	5.95 6	eP	51 38.00	1.0	
VRI	6.41 10	eP	51 44.00	0.6	

S.D. = 1.1 on 35 of 38 obs.

& MAY 27, 1993 15h 51m 17.91s
33.043 N 118.490 W
DEPTH = 7.0km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 2.8 (PAS).

SSK	1.34 30	eP	51 41.40	-1.6	
		eS	52 00.27		
PEC	1.40 52	eP	51 42.18	-1.7	
PLM	1.40 77	eP	51 42.59	-1.4	
		eS	52 01.67		
ABL	1.90 342	eP	51 46.56	-4.7	
BCH	2.51 329	eP	51 55.68	-4.2	
ISA	2.61 0	eP	52 00.04	-1.3	
GSC	2.65 31	eP	52 00.25	-1.7	

7 obs. associated

% MAY 27, 1993 16h 25m 46.97± 1.17s
37.606 N ± 9.2km 15.275 E ±11.9km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO	0.56 305	P	25 58.00	-0.5	
		eSg	26 08.00		
ATN	0.57 15	P	25 59.40	0.8	
MEU	0.57 209	P	25 58.50	-0.2	
		eSg	26 07.90		
SOI	0.77 53	P	26 06.50	4.5X	
FAI	1.31 256	P	26 11.80	0.5	
CZI	1.75 22	P	26 16.80	-0.6	

S.D. = 0.9 on 5 of 6 obs.

? MAY 27, 1993 17h 46m 48.98± 1.60s
19.349 S ±14.6km 177.176 W ±21.3km
DEPTH = 524.7 ± 10.9 km
5.2mb (7 obs.)
FIJI ISLANDS REGION (181)

SVA	4.32 286	eP	48 12.20	-0.1	
VUN	4.34 287	eP	48 12.30	-0.2	

DZM	15.56 257	iPc	50 04.50	0.0	
KUZ	18.42 198	eP	50 34.00	1.9	
WLZ	19.50 197	P	50 43.80	1.3	
NOZ	19.65 191	eP	50 45 30	1.5	
MNG	22.11 195	P	51 04.90	-1.7	
THZ	23.88 199	eP	51 22.10	-0.5	
LTZ	25.01 199	eP	51 30.50	-2.2	
ARMA	30.28 243	iPd	52 18.90	0.1	
	0.4s	28.00nm		5.2mb	
CNB	33.51 235	iPc	52 46.30	0.2	
	1.0s	67.00nm		5.2mb	
CAN	33.80 235	eP	52 48.10	-0.3	
BWA	33.97 237	iPd	52 47.40	-2.5	
CTA	34.39 262	iPd	52 54.00	0.5	
	0.9s	98.74nm		5.4mb	
		eS	58 45.00		
OLP	36.15 251	iPd	53 08.20	0.2	
TOO	37.20 233	iPd	53 17.00	0.4	
	0.6s	33.00nm		5.1mb	
ADE	41.87 239	iPd	53 54.60	0.2	
ASPA	45.55 256	iPd	54 23.60	0.4	
	1.0s	136.80nm		5.4mb	
		e	00 22.20		
KNA	51.50 265	iPd	55 08.70	0.8	
WARB	51.92 252	eP	55 04.60	-6.3X	
	0.6s	24.00nm		4.8mb	
MBL	58.77 257	iPd	55 59.10	0.4	
	0.5s	28.00nm		4.9mb	
MEEK	59.03 250	iPd	56 00.20	-0.3	
CIR	130.99 217	ePdiff	02 09.00	12.1X	
MTD	134.30 220	ePdiff	02 06.60	-5.1X	
HFS	138.52 352	ePKP	05 15.60	-0.2	
	0.4s	0.50nm			
PRU	148.03 346	ePKP	05 43.50	11.2X	
KHC	149.05 346	ePKP	05 45.50	11.6X	
		e	08 19.00		
GEC2	149.29 346	ePKP	05 46.00	11.6X	
	1.1s	5 13nm			

S.D. = 1.1 on 22 of 28 obs.

MAY 27, 1993 17h 50m 34.09± 0.66s
21.849 N ± 6.4km 93.547 E ± 5.8km
DEPTH = 48.3 ± 6.7 km
4.7mb (20 obs.) 4.0Msz (2 obs.)
MYANMAR (296)

SHL	4.00 338	iP	51 37.00	2.4	
		ePg	51 52.00		
		eS	52 26.00		
		eS	52 36.00		
		eSg	52 45.00		
CHTO	5.90 120	ePnc	52 01.20	0.0	
		eSn	52 55.00		
		eSg	53 23.00		
BDT	6.89 131	eP	52 07.80	-7.2X	
KHT	8.50 145	iPd	52 36.40	-1.1	
NST	8.75 133	eP	52 41.00	0.1	
LOE	8.89 118	eP	53 02.00	19.2X	
KMI	9.04 67	Pc	52 47.50	2.3	
	1.6s	160.00nm		5.8mb X	
Z	10s	2.30um		4.0MszX	
		sP	52 57.50		
		S	54 34.00		
GUN	9.21 312	P	52 46.80	-0.8	
PKI	9.33 309	P	52 47.60	-1.7	
KKN	9.56 310	P	52 52.00	-0.2	
DMN	9.58 308	P	52 52.00	-0.5	
GKN	10.14 309	P	52 58.60	-1.6	
NNT	10.94 146	eP	53 10.70	-0.2	
		e	55 04.40		
HYB	14.80 255	eP	54 01.50	-0.5	
		eS	56 34.00		
NDI	16.26 298	iPd	54 22.50	1.8	
	0.6s	13.33nm		4.2mb	
		eS	57 08.00		
LZH	16.79 30	eP	54 25.00	-2.5	
	1.5s	35.00nm		4.3mb	
E	14s	0.51um			
		pP	54 33.50		
		i	54 45.00		
GBA	17.39 245	P	54 38.70	3.8X	
	0.6s	3.50nm		3.7mb	
		S	57 32.70		
POO	18.78 263	eP	54 53.00	0.9	
		iS	58 06.50		
QUE	25.26 295	eP	56 12.80	15.2X	
BJI	26.44 42	eP	56 01.00	-7.2X	

27d 17h

```
      Z  20s      0.30um            3.8Msz
MAIO    32.87 304 eP     57 07.00    1.3
MBL     49.86 147 eP     59 24.50   -0.2
KAS     53.45 306 iPc    59 52.70    1.1
OBN     53.56 323 eP     59 52.00   -0.1
        1.0s     17.00nm          5.0mb
      Z  20s      0.20um            4.2Msz
                e        00 06.00
WARB    57.52 144 eP     00 14.50   -6.6X
VRI     58.65 311 eP     00 11.00  -17.8X
                e        20 28.50
MLR     59.20 311 ePc    00 34.20    1.4
                e        03 20.00
KAF     60.29 330 eP     00 40.50    0.7
SDF     61.28 336 eP     00 45.00   -1.5
VAY     61.87 306 eP     00 51.00    0.1
SKO     62.65 307 eP     01 10.00   13.9X
UPP     64.31 327 iP     01 06.00   -0.6
                i        01 20.80
KSP     65.41 317 eP     01 14.00    0.1
                e        01 28.30
HFS     66.28 327 eP     01 18.40   -0.9
        0.6s      8.40nm          5.0mb
PRU     66.61 316 P      01 22.50    0.9
                e        01 37.50
BRG     66.89 317 e(P)   01 23.80    0.5
                e        01 38.70
GEC2    67.30 315 e(P)   01 26.30    0.2
        0.7s      4.40nm          4.6mb
KHC     67.34 315 eP     01 27.00    0.7
        1.0s      5.40nm          4.5mb
                e        01 41.50
CLL     67.43 318 eP     01 27.00    0.3
NB2     67.45 329 P      01 25.80   -0.9
        0.8s      5.00nm          4.6mb
GRF     68.78 316 eP     01 35.50    0.3
                e        01 50.40
PGF     71.67 309 eP     01 52.40   -0.6
        0.9s      8.70nm          4.7mb
WLF     72.02 317 Pd     01 57.00    2.2
LPG     72.57 313 eP     01 58.10   -0.4
        1.0s      5.00nm          4.4mb
LPL     72.58 313 eP     01 58.00   -0.5
        0.8s      4.85nm          4.5mb
FRF     73.11 311 eP     02 00.90   -0.4
        1.0s     13.20nm          4.8mb
LMR     73.26 310 eP     02 01.90   -0.3
        1.1s     15.15nm          4.8mb
LRG     73.33 311 eP     02 02.50   -0.1
        1.1s     26.60nm          5 1mb
DAG     73.81 347 eP     02 18.00   13.2X
LBF     74.07 315 eP     02 06.00   -0.9
        1.0s      6.00nm          4.5mb
SMF     74.25 314 eP     02 07.30   -0.6
        0.6s      4.35nm          4 6mb
SSF     74.36 315 eP     02 08.10   -0.4
        1.0s     12.20nm          4 8mb
BCAO    74.46 269 iPd    02 09.50   -0.2
        0.6s      8.00nm          4.8mb
AVF     74.53 315 eP     02 09.00   -0.5
        1.2s     12.20nm          4.7mb
TCF     75.43 314 eP     02 14.70   -0 1
        1.0s     11.60nm          4.8mb
BUL     75.93 241 iPc    02 19.10    1.0
TOO     76.68 140 eP     02 22.00    0.2
JAQ    104.10 353 ePdiff04 43.10    9.7X
     S.D. = 1.1  on  48 of  58 obs.
-----------------------------------------
   MAY  27, 1993  17h 56m 26.80± 0.40s
   54.071 N ± 5.5km  157.406 W ± 4.9km
   DEPTH =  33.0km  (normol)
   4.8mb ( 24 obs.)  4.5Msz (  7 obs.)
 SOUTH OF ALASKA                 ( 17)
     ML 4.8 (PMR).

SDN     2.20 307 ePc     57 01.36   -0.3
                eS       57 30.86
KDC     4.61  35 eP      57 34.27   -1.6
                eS       58 22.20
CDD     5.30  22 iP      57 45.93    0.2
SYI     5.34  29 iP      57 45.51   -0.7
MCNL    5.40  17 iP      57 47.23    0.1
AUI     5.71  21 eP      57 52.10    0.6
RS2     6.89  20 iP      58 10.07    1.9
RSO     6.89  20 eP      58 07.84   -0.3
SVW     7.12   7 eP      58 11.40    0.1
SLKM    7.53  28 eP      58 14.47   -2.6

                eS       59 34.98
MID     8.11  44 eP      58 23.40   -1.6
PMR     8.73  27 eP      58 30.73   -2.9X
                eS       00 00.80
TTA     8.92   4 eP      58 35.30   -1.0
TTA     8.92   4 eP      58 29.93   -6.4X
KLU     9.63  35 eP      58 42.93   -3.2X
BALM   10.67  43 eP      58 54.86   -5.5X
ADK    11.82 267 eP      59 11.08   -4.8X
FBA    11.89  20 eP      59 12.97   -3.8X
ILT    17.14 332 iPc+    00 26.00    1.0
        1.7s    112.00nm          4.7mb
      Z  12s      3.70um          4.1MszX
      N  12s      2.30um
      E  12s      1.60um
                eS       03 38.00
BRW    17.30   1 eP      00 25.61   -1.4
INK    18.14  29 eP      00 39.50    2.2
        0.9s     22.00nm          4.3mb
MCW    22.09  90 eP      01 20.51    0.0
GMW    22.66  93 eP      01 25.31   -0.7
BMW    22.95  95 eP      01 28.85   -0.1
YKA    23.61  52 eP      01 35.20    0.1
        0.8s      7.80nm          4.3mb
LON    23.64  93 ePd     01 36.57    0.9
VGB    24.90  95 eP      01 48.01    0.1
DPW    25.20  88 eP      01 50.49   -0.2
NEW    25.65  86 ePd     01 54.52   -0.4
        1.1s     27.78nm          4.8mb
PET    25.82 286 eP      01 52.00   -4.3X
        0.9s     32.00nm          4.9mb
      Z  20s      1.00um          4.3Msz
FHC    25.94 107 (P)     01 58.52    1.0
        0.9s     34.06nm          4.9mb
MBC    26.43  19 eP      02 04.00    2.3
        1.0s      9.00nm          4.3mb
LBFM   26.77 104 eP      02 05.13   -0.3
MGD    28.14 303 eP      02 17.00   -0 4
        0.7s     20.00nm          4.9mb
      Z  18s      0.80um          4.4Msz
      E  18s      0.50um
                eS       07 04.00
                eSS      08 40.00
BONR   31.09 105 eP      02 44.85    0.5
ISA    32.62 108 eP      02 57.33   -0.1
        1.3s     26.11nm          5.0mb
                e        03 03.65
DUG    32.77  97 eP      02 57.79   -1.0
        0.7s      9.34nm          4.8mb
TPNV   32.96 104 (P)     03 01.65    1.1
        0.7s     13.46nm          5.0mb
ARUT   34.00 100 eP      03 09.18   -0.4
                e        03 15.76
FCC    34.17  56 eP      03 17.00    6.5X
TIK    35.06 328 iPc     03 18.00    0.0
        2.0s     41.00nm          5.0mb
                i        03 31.00
                e        04 41.00
PLM    35.22 109 (P)     03 20.76    0.7
GLA    36.58 108 eP      03 31.48    0.1
                e        03 38.20
ULM    36.89  70 ePd     03 36.10    2.4
YAK    37.42 312 iPc     03 37.20   -0.8
        1.8s    105.00nm          5.4mb
      Z  20s      1.10um          4.7Msz
      E  21s      1.00um
                i        03 50.00
                eS       09 27.00
TUC    39.42 104 eP      03 54.99   -0.2
        0.9s      8.75nm          4.5mb
                e        04 02.74
FRB    43.22  40 eP      04 26.00    0.2
LTX    45.72 100 eP      04 44.01   -2.5
                e        04 52.09
BOD    46.26 312 eP      04 49.30   -0.9
        1.4s     21.00nm          4.9mb
DAG    46.82  12 eP      04 55.20    0.7
MAT    46.83 275 eP      04 56.00    0.9
      Z  20s      0.35um          4.3Msz
                eS       11 40.00
MIAR   47.89  87 eP      05 01.72   -1.7
        1.0s      9.43nm          4.8mb
                e        05 08.44
NRI    48.00 334 eP      05 05.00    1.2
        2.6s     72.00nm          5.2mb
                e        05 18 00
                eS       12 06 00

                ePS      12 16.00
CIT    50.11 306 eP      05 20.50    0.2
GOGA   54.61  80 (P)     05 51.03   -3.1X
ZAK    55.97 310 eP      06 03.50   -0.3
        1.4s     12.00nm          4.7mb
BJI    56.91 294 eP      06 08.00   -2.7
      Z  18s      0.59um          4.7Msz
ELT    60.75 322 iPc     06 36.50   -0.6
        1.2s     17.00nm          5.1mb
KAF    64.12 358 eP      06 59.80    0.4
NB2    64.88   6 P       07 04.90    0.5
        0.8s      2.30nm          4.3mb
SVE    65.20 338 ePd     07 07.50    1.0
HFS    65.92   5 eP      07 10.80   -0.2
        0.7s      3.60nm          4.6mb
LZH    66.35 299 eP      07 12.60   -1.8
        2.0s     44.00nm          5.2mb
      Z  18s      0.29um          4.5Msz
      E  14s      0.51um
                pP       07 21.50   29kmX
EKA    68.92  15 P       07 31.00    1.1
        1.0s      4.60nm          4.5mb
FRU    73.71 323 (P)     08 01.00    2.1
        2.5s     50.00nm          5.1mb
      Z  18s      1.30um          5.3Msz
      N  18s      1.10um
BUL   145.82 350 ePKP    16 04.90    1.3
     S.D. = 1.2  on  57 of  66 obs.
-----------------------------------------
•  MAY  27, 1993  18h 06m 45.36± 1 40s
   53.907 N ±14.4km  157.446 W ± 8.0km
   DEPTH =  33.0km  (normol)
   3.8mb (  3 obs.)
 SOUTH OF ALASKA                 ( 17)

SDN     2.28 310 ePc     07 22.45    1.0
                eS       07 50.89
KDC     4.76  34 eP      07 56.02   -0.5
MCNL    5.56  17 eP      08 08.80    0.8
AUH     5.90  20 eP      08 13.51    0.7
                eS       09 16.33
AUE     5.91  21 eP      08 14.14    1.3
AUL     5.92  20 eP      08 14.05    1.1
PDB     6.16  16 eP      08 16.44    0.1
XLV     6.39  27 eP      08 20.44    0.8
CNPM    6.59  29 eP      08 22.26   -0.1
                eS       09 30.74
INW     6.61  19 eP      08 23.82    1.0
RDW     7.06  19 eP      08 29.80    0.7
SVW     7.29   7 eP      08 31.06   -1.2
SEW     7.59  32 eP      08 36.72    0.4
SLKM    7.69  28 eP      08 36.70   -1.1
CKL     7.81  19 eP      08 39.80    0.3
SPU     7.85  19 eP      08 40.02    0.0
BGL     7.86  18 eP      08 39.79   -0.5
CPAM    7.90  19 eP      08 40.70   -0.1
CRP     7.91  19 eP      08 41.45    0.5
MPA     7.92  30 eP      08 41.28    0.3
SUA     8.38  23 eP      08 47.61    0.1
PMR     8.89  27 (P)     08 53.06   -1.3
TTA     9.08   4 eP      08 54.28   -2.9X
CVA     9.18  39 eP      08 58.09   -0.4
VLZ     9.38  35 eP      08 59.71   -1.4
KLU     9.78  34 eP      09 05.22   -1.5
TGL    10.45  43 eP      09 15.48   -0.5
SDG    10.66  31 eP      09 19.55    0.8
BALM   10.80  43 eP      09 19.29   -1.5
CTGM   11.18  44 eP      09 26.66    0.8
ADK    11.79 268 (P)     09 33.35   -0.7
BRW    17.47   1 eP      10 45.62   -2.0
INK    18.29  29 eP      11 01.50    3.7X
        0.7s      5.00nm          3.8mb
YKA    23.73  52 eP      11 57.30    2.4
        0.7s      1.50nm          3.6mb
MBC    26.59  19 eP      12 28.50    6.7X
        1.0s      3.00nm          3.9mb
LMN    56.12  57 eP      16 50.00   26.5X
     S.D. = 1.0  on  32 of  36 obs.
-----------------------------------------
   MAY  27, 1993  18h 07m 00.78± 0.61s
    5.461 N ± 2.8km   77.514 W ± 2.9km
   DEPTH =  11.7 ±  3.8 km
   5.5mb ( 83 obs.)
 NEAR WEST COAST OF COLOMBIA      (102)

HOOC    2.17 156 iPc     07 36.85   -0.6
AZUC    2.23 142 iPc     07 38.98    0.4
```

27d 18h

DIAC 2.52 149 iPc 07 42.61 0.2
SILC 2.99 157 iPc 07 49.82 0.5
PURC 3.32 160 P 07 55.05 0.9
BOG 3.54 103 iPd 08 02.00 5.0X
iS 08 52.00
FUQ 3.76 90 iP 08 03.00 2.8X
PSO 4.24 177 eP 08 08.00 0.9
SDV 7.63 63 iPc 08 54.80 0.1
TOV 8.78 60 ePc 09 10.90 0.3
iPP 09 13.40
CEOS 9.77 68 iP 09 22.20 -2.1
GUAC 11.18 65 eP 09 42.80 -0.9
CAR 11.62 64 iPd 09 44.00 -5.6X
LLAV 11.71 64 eP 09 42.90 -8.0X
GUAN 12.58 68 iP 10 00.70 -1.9
NNA 17.35 178 iPc 11 06.20 1.7
1.0s 135.00nm 5.0mb
Z 18s 2.06um 5.0MszX
NEV 18.67 50 eP 11 22.17 1.3
MGH 18.70 52 eP 11 22.88 1.6
PAG 18.75 55 eP 11 22.00 0.0
MGG 18.99 56 eP 11 25.50 0.7
BPA 19.17 52 eP 11 25.29 -1.7
DEG 19.41 55 eP 11 29.00 -1.0
CPB 19.54 50 eP 11 29.72 -1.7
OXX 22.07 303 (P) 12 00.00 2.3
ARE 22.58 165 eP 12 05.00 2.1
ZOBO 23.50 157 iPc 12 08.10 -4.1X
1.2s 93.24nm 5 2mb
S 16 16.00
LR 19 50.00
IISM 23.57 306 (P) 12 14.50 2.3
LPB 23.75 157 P 12 14.20 -0.3
1.0s 220.00nm 5.7mb
Z 16s 3.37um 4.9MszX
S 16 20.00
LR 20 26.00
CNCB 24.05 157 P 12 17.60 0.1
PPM 24.62 305 (P) 12 26.00 2.9X
ACX 24.64 299 (P) 12 25.00 2.3
IIA 24.69 305 (P) 12 26.00 2.9X
CCH 25.33 154 P 12 29.00 -0.6
CRX 25.65 305 (P) 12 35.50 2.9X
SIV 26.82 143 P 12 41.10 -1.9
GOGA 28.36 349 eP 12 56.87 0.0
1.2s 20.74nm 4.8mb
MOCB 28.99 157 P 13 01.30 -1.9
YJA 29.87 157 ePd 13 09.00 -2.1
GBTN 30.69 349 eP 13 17.20 -0.5
HJA 30.86 158 ePd 13 18.50 -0.7
NAV 31.85 355 eP 13 28.10 0.2
OLY 32.55 339 eP 13 32.38 -1.6
UYO 32.60 333 iPd 13 33.20 -1.2
LTX 34.27 317 eP 13 47.35 -1.8
FVM 34.44 342 eP 13 48.90 -1.5
0.9s 53.44nm 5.5mb
FNO 34.87 331 iPc 13 53.00 -1.1
OCO 35.12 331 iPd 13 56.50 0.3
CYA 35.55 162 ePd 13 59.60 -0.4
ACO 36.87 330 iPc 14 09.50 -1.5
RTPR 37.09 164 ePc 14 13.00 0.1
PPD 37.48 138 eP 14 13.60 -2.7X
e 14 18.50
RTLL 37.59 167 iPd 14 17.00 -0.2
RTBS 37.71 169 ePc 14 19.50 1.5
RSNY 39.02 3 eP 14 29.75 0.8
0.9s 40.72nm 5.1mb
MRA 39.30 164 e(P) 14 30.30 -1.1
GAC 40.13 2 ePd 14 39.70 1.6
RSTA 40.80 138 eP 14 38.00 -5.9X
e 16 15.10
TUC 40.97 315 eP 14 45.81 0.5
1.2s 89.32nm 5.4mb
EEO 41.05 358 eP 14 49.00 3.4X
VAO 41.12 135 eP 14 43.80 -2.9X
LMN 41.72 13 ePd 14 55.00 3.8X
CBM 42.10 10 eP 14 55.38 1.1
0.9s 37.81nm 5.1mb
GLA 44.25 313 eP 15 12.78 0 7
SRU 44.86 323 eP 15 16.99 -0.1
EMUT 45.48 324 eP 15 22.35 0.3
MSU 45.49 321 eP 15 22.30 0.1
DAU 46.12 324 eP 15 27.35 0.1
PEC 46.36 313 (P) 15 30.97 2.1
1.1s 41.70nm 5.4mb
BW06 46.74 328 eP 15 30.81 -1.2
1.6s 48.13nm 5.3mb

GSC 46.80 315 eP 15 32.77 0.4
DUG 46.91 323 eP 15 33.66 0.4
1.1s 36.97nm 5.4mb
ULM 47.23 344 ePd 15 36.30 0.9
TPNV 47.26 317 (P) 15 37.10 1.0
0.2s 1.72nm 4.8mb
ISA 48.16 314 eP 15 43.12 0 0
1.2s 33.59nm 5.3mb
JAQ 48.22 1 eP 15 42.00 -1.1
TNP 48.51 318 eP 15 46.72 0.8
1.1s 27.33nm 5.2mb
BCH 49.10 313 eP 15 50.92 0.6
BONR 49.18 317 eP 15 52.03 0.9
KVN 49.61 318 eP 15 57.08 2.7X
PHAM 49.62 313 (P) 15 54.90 0.6
LRM 50.34 329 eP 15 59.10 -0.8
CMB 50.64 316 eP 16 03.31 1.2
1.6s 36.93nm 5.1mb
ORV 52.14 317 eP 16 13.50 0.1
LBFM 53.28 319 eP 16 22.11 0.1
FHC 54.41 317 eP 16 30.53 0.4
1.3s 208.57nm 6.0mb
DPW 54.68 327 eP 16 31.00 -1.1
FCC 54.69 350 ePd 16 36.50 4.6X
VGB 54.76 324 eP 16 32.70 0.0
LON 56.04 325 eP 16 40.97 -1.0
BMW 56.72 324 eP 16 45.67 -1.2
GMW 57.03 325 eP 16 47.10 -1.9
MCW 57.67 326 eP 16 52.37 -1.1
FRB 58.53 5 ePd 16 57.50 -1.7
1.0s 19.00nm 5.1mb
MBO 60.16 77 iPc 17 11.90 0.7
YKA 63.10 342 eP 17 28.20 -2.0
0.8s 17.30nm 5.3mb
KING 64.14 82 P 17 36.70 -1.2
KDS 64.75 79 iPc 17 41.00 -0.8
MAMG 65.02 81 P 17 42.60 -1.1
TIO 70.28 59 iPc 18 12.50 -4.1X
AVE 70.40 57 iPd 18 18.00 0.9
i 18 37.00
TIC 72.04 85 Pc 18 26.60 -0.7
LIC 72.06 85 Pc 18 26.60 -0.8
Z 20s 0.21um 4.4Msz
IFR 72.33 57 eP 18 34.50 5.6X
i 18 51.50
KIC 72.34 85 Pc 18 28.10 -1.0
1.0s 625.50nm 6.6mb X
INK 72.86 341 ePd 18 31.40 0.3
1.0s 6.00nm 4.6mb
MAL 73.22 53 iPc 18 35.00 1.2
BALM 73.22 333 eP 18 33.36 -0.2
DCN 73.89 36 iPd 18 37.80 0.4
0.7s 38.00nm 5.5mb
ECB 73.97 37 eP 18 37.80 -0.1
ECP 74.18 37 eP 18 39.10 0.0
DMU 74.23 35 iPd 18 39.60 0.3
0.8s 95.00nm 5.9mb
DLF 74.32 36 iPd 18 40.00 0.2
0.8s 51.00nm 5.6mb
MBC 74.38 350 eP 18 43.00 3.2X
ETA 74.38 37 eP 18 40.30 0.1
KLU 75.01 332 eP 18 43.30 -0.5
YRH 75.35 37 eP 18 45.80 -0.1
YRC 75.46 36 eP 18 46.20 -0.2
EAB 76.14 33 eP 18 49.80 -0.5
PMR 76.52 332 (P) 18 51.50 -0.7
0.3s 5.56nm 5.1mb
ELO 76.54 33 ePc 18 52.20 -0.3
EKA 76.65 34 Pd 18 50.30 -2.8X
1.0s 37.00nm 5.4mb
FBA 76.77 336 eP 18 52.44 -1.2
1.1s 18.70nm 5.1mb
E8L 76.79 34 eP 18 53.50 -0.4
1.3s 15.00nm 4.9mb
SLKM 76.79 331 eP 18 52.75 -1.1
LPF 76.92 42 iPc 18 54.70 -0.1
1.1s 61.80nm 5.6mb
EDU 76.94 33 ePc 18 54.70 0.0
1.1s 41.00nm 5.4mb
ESY 77.05 34 ePc 18 55.00 -0.3
GRR 77.08 42 iPc 18 55.90 0.2
0.9s 81.25nm 5.8mb
EDR 77.26 33 ePc 18 56.40 -0.1
FLN 77.37 41 iPc 18 57.70 0.4
1.1s 113.30nm 5.9mb
Z 22s 0.32um 4.6Msz
MFF 77.37 44 iPc 18 57.70 0.4

1.2s 152.35nm 6.0mb
EPF 77.42 47 iPc 18 58.50 0.8
1.2s 86.00nm 5.7mb
LDF 77.59 42 iPc 18 58.90 0.4
1.0s 110.40nm 5.9mb
DAG 77.82 12 eP 18 58.00 -1.3
0.8s 15.67nm 5.1mb
LFF 77.85 45 iPc 19 00.30 0.3
1.1s 88.90nm 5.8mb
RSO 78.01 331 eP 18 59.66 -1.1
SALF 78.02 48 P 19 01.98 0.9
LESF 78.11 47 P 19 01.56 0.1
LPO 78.15 46 iPc 19 01.90 0.3
1.1s 113.30nm 5.9mb
RJF 78.42 45 iPc 19 03.40 0.2
1.1s 86.70nm 5.7mb
Z 23s 0.40um 4.7MszX
LSF 78.50 44 iPc 19 03.60 0.0
1.2s 71.10nm 5.6mb
TRGS 78.58 48 P 19 05.08 0.8
CAF 78.79 45 iPc 19 05.60 0.4
1.2s 106.50nm 5.8mb
TCF 78.97 44 iPc 19 06.20 0.0
1.1s 56.90nm 5.5mb
MAF 79.22 44 iPc 19 07.60 0.1
1.0s 60.60nm 5.6mb
PERF 79.25 48 P 19 08.86 1.1
HYF 79.33 43 iPc 19 08.50 0.4
BGF 79.43 44 iPc 19 08.70 0.1
1.0s 68.80nm 5.6mb
IMA 79.43 336 eP 19 07.36 -1.1
1.2s 11.15nm 4.7mb
PYM 79.50 45 P 19 09.49 0.4
SVW 79.50 331 eP 19 07.27 -1.5
1.1s 58.56nm 5.5mb
AGO 79.60 44 P 19 09.34 -0.2
LBL 79.64 45 P 19 10.31 0.4
AVF 79.79 44 iPc 19 10.40 -0.1
1.1s 66.65nm 5.5mb
SSF 79.91 43 iPc 19 11.00 -0.2
1.2s 79.45nm 5.6mb
TTA 79.93 333 eP 19 09.44 -1.6
1.1s 7.91nm 4.6mb
PLDF 79.94 44 P 19 11.51 0.0
SMF 80.12 44 iPc 19 12.30 0.0
1.1s 100.10nm 5.7mb
LOR 80.16 43 iPc 19 12.30 -0.3
1.1s 61.80nm 5.5mb
Z 23s 0.20um 4.4MszX
LBF 80.23 43 iPc 19 12.60 -0.4
1.1s 32.70nm 5.2mb
SNF 80.59 40 iPc 19 14.93 0.2
DOU 80.77 40 P 19 16.10 0.4
0.9s 97.50nm 5.8mb
e 19 21.00
CDR 81.40 47 ePd 19 20.10 1.0
BRW 81.41 341 (P) 19 17.39 -1.2
VITF 81.62 42 P 19 20.43 0.2
ENN 81.65 40 iPc 19 20.20 0.0
1.0s 55.00nm 5.6mb
WLF 81.77 41 iPc 19 21.61 0.8
1.2s 97.00nm 5.7mb
LRG 81.83 47 iPc 19 22.00 0.7
1.2s 47.00nm 5.4mb
HAU 81.86 42 iPc 19 21.50 0.0
1.1s 42.25nm 5.4mb
Z 19s 0.17um 4.4Msz
LMR 81.94 47 iPc 19 22.30 0.4
1.3s 50.90nm 5.4mb
FRF 82.04 47 iPc 19 22.90 0.4
1.1s 54.95nm 5.6mb
LPL 82.10 45 iPc 19 24.00 0.9
1.0s 35.00nm 5.4mb
LPG 82.12 45 iPc 19 24.30 1.1
1.1s 51.05nm 5.5mb
RRL 82.14 46 P 19 23.99 0.7
WIT 82.16 38 eP 19 24.00 1.2
CALN 82.21 47 P 19 23.11 -0.4
WTS 82.23 38 ePc 19 23.50 0.3
0.9s 84.90nm 5.9mb
e 19 28.00
PZZ 82.36 46 P 19 25.18 0.9
LSD 82.40 45 P 19 25.60 0.9
BNS 82.44 39 iPd 19 25.60 1.2
TOUF 82.47 46 P 19 24.51 -0.5
RSP 82.47 45 P 19 25.96 1.1
BHB 82.48 46 P 19 25.05 0.3

27d 18h

CDF	82 49	42 iPc	19 25.00	0.2	
	1.2s	58.90nm		5.6mb	
AURF	82.53	47 P	19 24.51	-0.6	
DIX	82.58	44 ePc	19 26.60	1.0	
AUTN	82.60	46 P	19 26.18	0.5	
SBF	82.61	47 P	19 25.79	0.3	
SAOF	82.69	46 P	19 26.10	0.2	
LANF	82.84	41 P	19 24.60	-1.9	
ROB	82.92	46 P	19 27.01	-0.1	
IMI	82.94	47 P	19 26.60	-0.6	
MMK	82.96	44 iPc	19 28.90	1.3	
ORO	82.98	45 P	19 28.00	0.5	
FEL	82.98	43 P	19 27.50	0.0	
FIN	83.16	46 P	19 27.01	-1.3	
ZLA	83.24	43 ePc	19 29.10	0.4	
TNS	83.25	40 ePc	19 29.50	0.8	
SLE	83.31	43 ePc	19 29.20	0.2	
PCP	83.40	46 P	19 29.44	-0.1	
VAI	83.53	45 P	19 30.30	0.2	
TMA	83.60	44 ePc	19 31.10	0.4	
MUD	83.65	34 iPd	19 28.50	-1.9	
	1.2s	54.00nm		5.6mb	
LLS	83.67	44 ePc	19 32.00	0.9	
PGF	83.78	48 P	19 31.66	0.1	
BOB	84.03	46 P	19 33.50	0.7	
OSS	84.46	44 ePc	19 35.90	0.9	
NB2	84.65	29 P	19 35.90	0.4	
	1.1s	27.20nm		5.4mb	
BDI	84.88	46 P	19 37.00	-0.1	
OGA	85.06	44 iPd	19 39.30	1.2	
GRF	85.06	41 iPc	19 38.70	1.0	
	1.4s	90.00nm		5.8mb	
Z	21s	0.20um		4.5Msz	
		e(pP)	19 43.50	15kmX	
MOTA	85.09	43 iPc	19 38.50	0.4	
	0.9s	18.30nm		5.3mb	
		i	19 46.20		
SOTA	85.16	43 iPc	19 39.00	0.5	
	0.9s	23.00nm		5.4mb	
MOX	85 27	40 eP	19 39.50	0.7	
	1 6s	45.00nm		5.4mb	
WATA	85.41	43 iPc	19 40.10	0.4	
WTTA	85.45	43 iPc	19 40.30	0.3	
	0 8s	16.60nm		5.3mb	
PGD	85.70	46 P	19 41.30	0.0	
SFI	85.80	46 P	19 41.90	0.4	
HFS	85.91	30 eP	19 41.30	-0.4	
	1.3s	50.40nm		5.6mb	
CLL	86.10	39 iPc	19 43.40	0.5	
	1.3s	53.00nm		5.6mb	
		i	19 48.20		
		eSg	27 53.00		
WET	86.17	41 eP	19 44.10	0.8	
	1.1s	112.00nm		6.0mb	
BHG	86.27	43 eP	19 44.10	0.3	
	1.1s	65.00nm		5.7mb	
ARV	86.61	47 P	19 45.50	-0.1	
KHC	86.63	41 iPc	19 46.30	0.7	
		e	19 50.60		
		e	20 13.00		
		e	20 39.00		
KBA	86.63	43 iPc	19 46.30	0.5	
	1.0s	41.70nm		5.6mb	
		i	19 49.80		
BRG	86.73	39 iPc	19 46.70	0.7	
	1.3s	54.00nm		5.6mb	
		e	19 51.50		
		eSg	27 26.50		
GEC2	86.73	41 e(P)	19 47.10	0.9	
	1.0s	36.40nm		5.5mb	
KMR	87 08	42 iP+	19 48.50	0.7	
VOY	87.09	44 eP	19 48.70	0.7	
TRO	87.17	20 eP	19 48.50	0.8	
PRU	87.18	40 iPc	19 49.00	0.8	
	1.0s	40.90nm		5.6mb	
Z	18s	0.30um		4.7Msz	
		e	19 53.20		
		e	26 07.30		
		eSg	27 20.00		
SDI	87.40	49 P	19 49.80	0.3	
CEY	87.49	44 eP	19 49.00	-0.8	
LJU	87 53	44 eP	19 50.50	0.5	
UPP	87.90	30 iP	19 51.40	0.0	
		i	19 55.50		
VBY	88.09	45 e(P)	19 53.00	0.4	
KSP	88.21	39 iPc	19 54.40	1.3	
	0.9s	33.00nm		5.7mb	

PTJ	88.54	44 eP	19 55.50	0.6	
MGR	88.86	50 P	19 56.40	-0.1	
ZST	89.05	42 eP	19 57.00	-0.2	
ILT	89.17	338 iPc	19 56.50	-0.9	
	1.0s	24.00nm		5.4mb	
CSI	89.46	50 P	19 59.30	-0.1	
TDS	89.52	50 P	19 59.80	0.2	
ROI	89.70	50 P	20 00.00	-0.5	
KEV	89.90	20 eP	20 01.00	0.2	
SRO	89.90	42 eP	20 01.70	0.5	
SDF	90.30	22 iP	20 02.40	-0.3	
SPC	90.96	41 eP	20 09.40	3.1X	
NUR	91.24	29 eP	20 06.00	-1.1	
	0.8s	17.70nm		5.5mb	
		i	20 11.30		
KAF	91.63	27 iP	20 07.70	-1.1	
	1.0s	14.10nm		5.3mb	
OHR	92.68	48 eP	19 59.20	-15.0X	
SKO	93.01	48 iPc	20 16.00	0.3	
	1.0s	49.00nm		5.9mb	
GZR	93.34	44 ePd	20 19.00	1.8	
VAY	93.96	48 iP	20 21.00	1.0	
SPA	95.43	180 iPc	20 25.70	-0.7	
	1.0s	9.00nm		5.2mb	
BCAO	95.59	85 iPc	20 27.20	-0.9	
	0.7s	9.00nm		5.3mb	
		ic	20 34.00		
ZAK	124.38	359 ePKP	26 00.50	-0.9	
	1.0s	6.00nm			
MAT	126.50	324 ePKP	26 04.00	-2.0	
	0.8s	6.72nm			
PRZ	127.50	22 ePKP	26 09.00	1.1	
	1.0s	40.00nm			
QUE	130.85	42 ePKP	26 15.30	0.6	
BJI	133.00	346 ePKP	26 16.50	-1.7	
	1.5s	29.00nm			
Z	24s	0.32um		5.0MszX	
LZH	138.65	358 ePKP	26 27.00	-2.3	
	1.2s	27.00nm			
		pP	26 35.00		
GKN	142.54	26 PKP	26 32.00	-4.4X	
	0.9s	43.00nm			
KKN	143.00	26 PKP	26 32.20	-5.1X	
DMN	143.08	26 PKP	26 32.80	-4.7X	
	0.9s	79.00nm			
GUN	143.15	25 PKP	26 33.40	-4.3X	
PKI	143.25	26 PKP	26 33.00	-4.9X	
	1.0s	70.00nm			
ASPA	144.76	236 iPKPd	26 38.40	-1.7	
	0.9s	16.70nm			
HYB	147.20	46 ePKP	26 44.00	-0.3	
	1.0s	80.00nm			
GBA	148.74	52 PKP	26 47.30	0.6	
	0.8s	2.50nm			
WARB	149.06	226 ePKP	26 43.00	-4.1X	
KMI	149.60	360 PKPd	26 48.50	0.3	
	1.5s	70.00nm			
		pP	26 57.00		
KOD	150.61	58 iPKP	26 56.00	6.0X	
BAG	151.85	321 ePKP	26 57.00	5.3X	
	S.D. = 0.9	on 245 of 274 obs.			

? MAY 27, 1993 18h 39m 49.56± 2.80s
54.152 N ±27.5km 157.443 W ±11.9km
DEPTH = 33.0km (normal)
3.3mb (2 obs.)
SOUTH OF ALASKA (17)
ML 4.0 (AEIC).

SDN	2.13	305 eP	40 23.16	-0.4	
		eS	40 51.50		
KDC	4.55	36 eP	40 56.11	-1.8	
CDD	5.23	22 iP	41 08.37	0.8	
SYI	5.28	30 eP	41 08.02	-0.1	
MCNL	5.33	17 eP	41 09.54	0.7	
PDB	5.92	16 eP	41 17.62	0.4	
CNPM	6.37	30 eP	41 22.71	-0.9	
RSO	6.82	20 (P)	41 30.27	0.3	
SLKM	7.47	29 eP	41 37.11	-1.9X	
BALM	10.62	43 eP	42 20.28	-2.3X	
INK	18.08	29 eP	44 03.00	3.7X	
	1.0s	3.00nm		3.4mb	
YKA	23.58	52 eP	44 58.40	0.8	
	0.9s	0.90nm		3.3mb	
MBC	26.36	19 eP	45 34.50	10.6X	
	S.D. = 1.0	on 9 of 13 obs.			

% MAY 27, 1993 19h 48m 14.86± 0.85s
38.025 N ± 8.8km 14.124 E ± 7.2km
DEPTH = 10.0km (geophysicist)
SICILY (398)

GIB	0.08	245 P	48 16.80	-0.7	
		eSg	48 18.70		
MNO	0.46	102 P	48 23.80	-0.5	
		eSg	48 32.50		
FAI	0.83	206 P	48 31.70	0.8	
MEU	1.12	145 P	48 35.50	-0.5	
		eSg	48 53.20		
SOI	1.53	88 P	48 42.90	0.8	
CZI	1.97	52 P	48 48.10	-0.5	
ROI	2.46	50 P	48 56.20	0.6	
	S.D. = 0.8	on 7 of 7 obs.			

MAY 27, 1993 20h 14m 07.13± 0.30s
43.168 N ± 3.4km 0.119 E ± 2.8km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 3.5 (LDG). mbLg 3.2 (MDD).
Felt (III) in the Bigorre
District.

EPF	0.21	130 Pg	14 11.20	-0.6	
		Sg	14 14.20		
JAU	0.38	250 Pg	14 14.49	-0.5	
		Sg	14 19.87		
OGE	0.43	270 Pg	14 16.41	0.4	
ESCF	0.52	260 Pg	14 17.09	-0.5	
		Sg	14 23.85		
LHE	0.60	245 Pg	14 17.70	-1.6	
		Sg	14 24.81		
ATE	0.61	262 Pg	14 19.04	-0.3	
		Sg	14 27.51		
ISSF	0.68	258 Pg	14 20.20	-0.6	
		Sg	14 29.49		
MADF	0.69	268 Pg	14 20.58	-0.2	
ELYF	0.81	270 Pg	14 23.38	0.5	
		Sg	14 34.99		
BOH	0.83	266 Pg	14 23.09	-0.2	
		Sg	14 34.64		
SALF	0.89	117 Pg	14 23.72	-0.5	
EGRA	1.02	198 iPgc	14 23.77	-2.7X	
		eSg	14 36.40		
GRBF	1.09	107 Pg	14 27.99	0.3	
LPO	1.70	27 Pn	14 37.90	0.9	
		Pg	14 42.00		
		Sg	15 06.00		
LFF	1.83	14 Pn	14 40.30	1.5	
		Pg	14 44.50		
		Sg	15 10.70		
ECRI	2.01	255 iPnc	14 43.42	1.9	
		eSn	15 07.30		
ETER	2.19	112 iPnd	14 51.06	6.9X	
		eSn	15 18.60		
CAF	2.25	38 Pn	14 45.00	0.0	
		Pg	14 51.90		
		Sg	15 22.80		
EROQ	2.35	175 iPnd	14 47.70	1.3	
		eSn	15 13.40		
RJF	2.36	25 Pn	14 47.00	0.5	
		Pg	14 54.00		
		Sg	15 25.10		
ETOR	2.85	215 ePn	14 53.99	0.4	
		eSn	15 24.00		
LSF	3.24	18 Pn	14 58.80	-0.2	
		Pg	15 10.40		
		Sg	15 53.00		
MFF	3.44	357 Pn	15 02.60	0.8	
		Pg	15 14.20		
		Sg	15 58.80		
TCF	3.46	25 Pn	15 01.20	-0.9	
		Pg	15 14.20		
		Sg	15 59.10		
MAF	3.52	29 Pn	15 02.00	-0.9	
		Pg	15 15.10		
		Sg	16 01.50		
ECHE	3.67	193 ePn	15 05.32	0.2	
		eSn	15 43.80		
BGF	3.90	29 Pn	15 07.30	-1.1	
		Pg	15 22.70		
		Sg	16 13.60		
AVF	4.29	31 Pn	15 13.50	-0.3	
		Pg	15 29.60		
		Sg	16 26.00		

```
SMF      4.37  36 Pn     15 15.40   0.4
                 Pg     15 31.30
                 Sg     16 28.90
SSF      4.57  30 Pn     15 17.20  -0.7
                 Pg     15 35.20
                 Sg     16 34.30
LBF      4.69  34 Pg     15 37.00  17.3X
                 Sg     16 38.00
LOR      4.88  32 Pg     15 40.90  18.7X
                 Sg     16 44.40
LPF      4.93 351 Pg     15 41.80  18.8X
                 Sg     16 47.20
GRR      5.27 353 Pg     15 48.30  20.6X
                 Sg     16 55.40
LDF      5.43 358 Pg     15 51.20  21.2X
                 Sg     17 03.00
      S.D. = 0.8  on  28 of  35 obs.
-------------------------------------
   MAY  27, 1993  20h 43m 46.64± 0.81s
   44.291 N ± 5.3km     8.323 E ± 7.0km
   DEPTH =  10.0km  (geophysicist)
  ORTHERN ITALY                 (545)
      ML 2.4 (LDG), 2.1 (GEN)

FIN      0.12 225 P      43 49.39  -0.2
CKI      0.14 347 Pc     43 49.90   0 0
                 eSg    43 52.20
PCP      0.30  32 P      43 52.80  -0.1
                 S      43 56.60
ROB      0.33 271 P      43 53.03  -0.4
                 S      43 57.10
IMI      0.49 220 P      43 56.09  -0.6
                 S      44 01.86
STV      0.72 267 P      44 01.65   0.8
                 S      44 09.47
SBF      0.77 237 Pg     44 01.50  -0.2
                 Sg     44 12.60
DOI      0.80 286 P      44 01.50  -0.8
                 eSg    44 11.50
PZZ      0.90 284 P      44 04.01   0.0
                 S      44 14.19
BHB      0.94 306 P      44 04.63   0.1
FRF      1.41 240 Pg     44 12.70   0.3
                 Sg     44 31.60
LMR      1.63 235 Pn     44 14.90  -0.5
                 Pg     44 17.20
                 Sg     44 37.90
LRG      1.65 240 Pg     44 17.20   1.5
                 Sg     44 39.30
      S.D. = 0.7  on  13 of  13 obs.
-------------------------------------
*  MAY  27, 1993  20h 53m 56.57± 1.50s
   31.314 S ± 6.9km    72.095 W ±17.0km
   DEPTH =  10.0km  (geophysicist)
 OFF COAST OF CENTRAL CHILE      (134)
      MD 4.3 (SAN).

JACH     1.87 137 iP     54 29.01   0.1
ROCH     1.89 151 eP     54 29.23  -0.2
                 iS     54 55.50
PEL      2.18 147 iP     54 33.63   0.2
                 iS     55 02.40
LCCH     2.20 168 iP     54 33.78   0.1
                 iS     55 04.17
RTBS     2.28  99 iPd    54 36.90   2.0
FCH      2.52 143 iP     54 38.68   0.1
TACH     2.53 158 iP     54 38.74   0.4
PCH      2.66 150 iP     54 40.29   0.0
LNV      2.70 168 iP     54 40.10  -0.6
CHCH     2.88 155 iP     54 43.57   0.2
CYA      6.17  64 ePd    55 28.70  -1.3
                 S      56 37.00
TCA      6.42  92 ePd    55 31.20  -2.4
                 S      56 41.00
FSA      7.46  47 e(P)   55 50.00   1.9
ZOBQ    15.41  14 P      57 35.80  -0.5
      S.D. = 1.2  on  14 of  14 obs.
-------------------------------------
&  MAY  27, 1993  21h 04m 57.56s
   34.270 N          116.420 W
   DEPTH =  1.1km
 SOUTHERN CALIFORNIA             ( 43)
      <PAS-P>. ML 2.9 (PAS).

PEC      0.72 239 eP     05 12.71   0.8
PLM      0.99 202 eP     05 17.74   0.5
GSC      1.08 343 iPd    05 18.95   0.2
ISA      2.19 310 eP     05 34.99  -0.6
ABL      2.38 285 eP     05 39.21   0.6
TPNV     2.68   3 (P)    05 42.36  -0.4
BCH      3.15 288 eP     05 47.37  -2.0
TNP      3.86 351 (Pn)   05 57.09  -2.5
BONR     3.98 338 (Pn)   06 00.50  -0.9
                 ePg    06 13.65
      9 obs. associated
-------------------------------------
   MAY  27, 1993  21h 18m 07.95± 0.76s
   47.265 N ± 7.7km    10.899 E ± 5.7km
   DEPTH =  10.0km  (geophysicist)
 AUSTRIA                         (546)
      ML 2.4 (FUR), 2.0 (VIE).

MOTA     0.16  60 iPgd   18 11.40  -0.4
                 iSg    18 15.30
SOTA     0.22 102 iPgd   18 12.90   0.2
                 iSg    18 17.80
OGA      0.41 168 iPgd   18 16.20  -0.1
WATA     0.47  81 iPgc   18 16.70  -0.8
                 iSg    18 24.50
WTTA     0.50  90 iPgc   18 18.00  -0.2
                 iSg    18 26.40
SCE      0.60 112 iPgd   18 19.70  -0.5
FUR      0.94  16 ePg    18 26.10   0.3
KBA      1.68  95 iPnc   18 39.40   1.7
                 iPg    18 40.90
                 i      19 04.20
                 iSg    19 06.00
SLE      1.71 288 ePc    18 36.00  -1.9
FEL      2.05 288 ePn    18 44.64   1.7
      S.D. = 1.2  on  10 of  10 obs.
-------------------------------------
?  MAY  27, 1993  21h 42m 41.05± 6.51s
   34.958 S ±33.0km   72.174 W ±44.8km
   DEPTH =  33.0km  (normal)
 NEAR COAST OF CENTRAL CHILE     (135)
      MD 3.8 (SAN).

LNV      1.18  32 iP     43 00.86  -0.4
                 iS     43 12.89
LCCH     1.56  19 iP     43 06.40  -0.4
CHCH     1.62  51 iP     43 07.43  -0.3
                 iS     43 23.86
TACH     1.66  39 iP     43 08.08  -0.1
                 iS     43 25.49
PCH      1.91  46 iP     43 11.64  -0.4
                 iS     43 32.26
SAN      1.96  40 (P)    43 13.54   1.0
                 iS     43 33.38
PEL      2.19  35 iP     43 16.26   0.3
                 iS     43 39.10
ROCH     2.20  26 iP     43 16.44   0.2
                 iS     43 41.32
FCH      2.25  44 iP     43 16.76  -0.3
                 iS     43 42.13
JACH     2.62  31 iP     43 22.52   0.4
                 iS     43 50.75
RFA      3.05  88 ePd    43 28.30   0.1
      S.D. = 0.5  on  11 of  11 obs.
-------------------------------------
   MAY  27, 1993  21h 58m 41.14± 0.56s
   19.110 N ± 4.8km    63.311 W ± 3.5km
   DEPTH =  39.6 ±  6.6 km
   4.5mb ( 15 obs.)  4.6Msz (  4 obs.)
 LEEWARD ISLANDS                 ( 92)

CPB      2.03 136 eP     59 13.11  -0.5
NEV      2.09 160 eP     59 17.52   3.1X
BPA      2.48 146 eP     59 20.00   0.0
LPR      2.55 252 P      59 21.00  -0.1
MGH      2.60 156 eP     59 21.50  -0.2
CPD      2.69 247 P      59 23.70   0.7
SJG      2.87 250 iP     59 26.00   0.4
CLLP     3.26 252 P      59 31.00  -0.1
APR      3.30 259 P      59 31.20  -0.5
PORP     3.33 252 P      59 32.00   0.0
PAG      3.44 153 eP     59 34.90   1.2
LRS      3.45 257 P      59 33.00  -0.8
DDG      3.46 152 eP     59 34.70   0.7
DEG      3.51 142 eP     59 34.00  -0.7
MGG      3.70 149 eP     59 37.50   0.2
MGP      3.75 254 P      59 38.00   0.0
FDF      4.82 154 eP     59 53.32   0.1
BIM      5.05 155 eP     59 56.33  -0.1
MVM      5.09 153 eP     59 56.60  -0.4
SLW      5.55 155 eP     00 03.91   0.4
SLB      5.69 157 eP     00 05.30  -0.2
GRW      7.09 167 eP     00 31.10   5.9X
TPP      8.92 168 eP     00 57.32   6.7X
CAR      9.24 203 eP     00 02.00 -53.1X
OLLA     9.65 201 eP     00 54.70  -6.0X
TOV     11.19 215 eP     01 24.70   2.9X
SDV     12.40 216 ePd    01 38.00  -0.1
BOG     17.82 217 eP     02 52.00   3.7X
                 eS     06 20.00
HBF     20.57 315 eP     03 18.79  -0.4
                 e      03 27.31
SGS     20.82 316 eP     03 21.73   0.0
                 e      03 30.65
CEH     21.75 323 (P)    03 31.39   0.3
        0.4s     43.51nm          5.2mb
                 e      03 42.63
JSC     21.98 317 eP     03 33.07  -0.3
                 e      03 45.61
PSO     22.49 219 eP     03 40.50   1.4
PRM     22.58 315 (P)    03 39.72   0.3
                 e      03 53.52
CBN     22.62 330 e(P)   03 41.00   1.3
BLA     23.44 324 (P)    03 46.77  -1.0
        0.8s     9.73nm          4.4mb
GBTN    24.74 316 eP     04 01.42   1.0
                 e      04 23.55
SIV     34.95 176 P      05 30.00  -1.6
ZOBD    35.47 188 P      05 33.00  -3.7X
      Z  18s      0.87um          4.6Msz
                 S      11 26.00
                 LR     16 44.00
LPB     35.73 188 P      05 39.00   0.3
      Z  18s      1.72um          4.9Msz
                 LR     17 40.00
CNCB    35.99 188 P      05 41.00  -0.1
CCH     36.37 185 eP     05 43.00  -1.0
LTX     38.02 293 eP     05 56.30  -1.3
ALQ     41.21 301 eP     06 24.72   0.6
        0.9s     2 67nm          4.0mb
PPD     42.54 163 eP     06 35.60   0.8
TUC     44.41 297 eP     06 51.23   1.1
        0.9s     7.23nm          4.5mb
YKA     55.75 334 eP     08 13.80  -2.3
        0.9s     3.10nm          4.3mb
AVF     60.41  47 eP     08 48.40  -0.5
        0.9s     3.10nm          4.4mb
SMF     60.74  47 eP     08 50.80  -0.4
        0.9s     4.40nm          4.6mb
LOR     60.78  46 eP     08 50.80  -0.7
        0.8s     2.70nm          4.4mb
      Z  20s     0.30um          4.4Msz
LBF     60.85  46 eP     08 51.20  -0.8
        0.9s     3.60nm          4.5mb
LPL     62.72  48 eP     09 05.00   0 2
        0.8s     3.65nm          4.6mb
LPG     62.74  48 eP     09 04.60  -0.4
        1.1s     5.60nm          4.6mb
MBC     63.75 347 eP     09 21.50  10.7X
        1.0s     3.00nm
INK     65.09 337 eP     09 20.00   0.4
        1.0s     2.00nm          4.1mb
NB2     65.98  31 P      09 26.10   0.6
        1.0s     4.20nm          4.5mb
PRU     67.85  43 eP     09 38.50   1.0
      Z  16s     0.30um          4.6MszX
                 e      09 50.50
IMA     72.86 335 eP     10 07.27  -0.5
        0.8s     1.98nm          4.1mb
KAF     73.13  29 iP     10 10.50   1.3
        0.4s     2.40nm          4.5mb
OBN     80.05  35 eP     10 49.00   1.0
      Z  1Bs     0 30um          4.7Msz
BCAO    80.87  88 iPc    11 05.10  11.9X
        0.9s     9.00nm
                 id     11 34.00
CNB    146.95 234 ePKP   18 23.30   3.8X
TOO    148.87 228 ePKP   18 31.30   8.9X
        0.8s     7.00nm
      S.D. = 0.8  on  51 of  63 obs.
-------------------------------------
   MAY  27, 1993  22h 13m 20.09± 1.02s
   44.282 N ± 7.4km    8.285 E ± 7.9km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                  (545)
      ML 2.2 (LDG), 2.0 (GEN).
```

27d 22h

FIN	0.09	217	P	13 23.10	0.4
			S	13 24.80	
ROB	0.30	273	P	13 26.86	0.5
			S	13 30.88	
PCP	0.32	36	P	13 26.54	-0.2
			S	13 30.24	
IMI	0.47	218	P	13 29.92	0.3
			S	13 36.06	
ENR	0.62	265	P	13 31.85	-0.9
			S	13 41.59	
STV	0.69	267	P	13 32.58	-1.3
			S	13 43.10	
SBF	0.74	236	Pg	13 36.70	2.0X
			Sg	13 46.40	
PZZ	0.88	285	P	13 37.57	0.5
BHB	0.92	308	P	13 38.34	0.6
RSP	1.14	320	P	14 05.03	23.6X
FRF	1.39	239	Pg	13 48.30	2.9X
			Sg	14 05.30	

S.D. = 0.8 on 8 of 11 obs.

MAY 27, 1993 23h 14m 19.05± 0.32s
5.513 S ± 6.7km 151.854 E ± 6.8km
DEPTH = 33.0km (normal)
5.2mb (24 obs.)
NEW BRITAIN REGION, P.N.G. (192)

RAB	1.35	13	iPd-	14 44.00	2.3
HNR	8.92	116	eP	16 30.00	1.3
			e(S)	18 09.00	
CTA	15.48	200	iPd	18 03.00	6.3X
	1.0s		15.00nm	4.2mb	X
GUA	20.14	340	eP	18 54.60	1.2
	1 1s		354 43nm	5.6mb	
GUMO	20.20	340	eP	18 54.50	0.5
	1.0s		290.40nm	5.6mb	
			pP	19 04.70	42kmX
			eS	22 51.00	
PJG	20.20	340	eP	18 55.00	1.0
DZM	21.68	141	iPd	19 14.20	5.0X
MTN	21.70	249	eP	19 07.00	-2.4
			e	19 13.00	
OLP	22.18	198	iPc	19 15.30	1 3
ARMA	24.78	180	eP	19 51.00	11.6X
	1.1s		31.00nm		
KNA	24.84	244	eP	19 41.00	1.0
	0.8s		270.00nm	5.9mb	
ASPA	24.99	222	iPd	19 42.40	0.9
	0.7s		91.20nm	5.5mb	
	Z 23s		0.60um	4.6MszX	
			epP	19 50.30	28kmX
			eS	23 58.60	
WSI	31.55	261	ePd	20 40.80	0.0
MBL	34.71	240	eP	21 10.00	1.7
	0.5s		10.00nm	5.0mb	
BAG	37.84	306	eP	21 36.00	1.1
MEEK	38.02	233	eP	21 36.00	-0.2
BJI	55.97	327	eP	23 55.00	-1.6
	Z 22s		0.49um	4.5Msz	
KMI	56.61	305	Pd	24 02.50	0.7
	1.8s		70.00nm	5.4mb	
			pP	24 10.00	25kmX
CHTO	57.45	296	ePc	24 07.50	0.0
	1.2s		19.10nm	5.0mb	
LZH	61.09	317	Pc	24 32.50	-0.1
	1.2s		42.00nm	5.4mb	
	Z 20s		0.30um	4.4Msz	
			pP	24 50.00	66kmX
GUN	71.69	302	P	25 40.20	-0.3
PKI	71.99	301	P	25 41.80	-0.5
	1.1s		37.00nm	5.3mb	
KKN	72.16	301	P	25 42.60	-0.6
	0.8s		38.00nm	5.4mb	
DMN	72.26	301	P	25 45.60	1.8
	0.9s		65.00nm	5.6mb	
GKN	72.77	301	P	25 46.40	-0.3
	1.0s		64.00nm	5.6mb	
HYB	75.84	289	eP	26 04.50	0.1
GBA	76.25	285	P	26 06.90	0.2
	1.1s		4.00nm	4.3mb	
KDC	77.26	27	eP	26 10.76	-0.7
	0.8s		11.39nm	5.0mb	
SVW	77 84	23	ePc	26 14.93	0.2
	0.8s		50.49nm	5.6mb	
RSO	78 62	25	eP	26 17.45	-1.8
TTA	78.77	22	iPc	26 19.73	-0.2
	0.7s		9.63nm	4.9mb	

SLKM	79.71	25	iPc	26 24.07	-0.9
PMS	80.37	25	eP	26 27.40	-1.0
	1.0s		62.00nm	5.6mb	
PMR	80.72	25	eP	26 29.20	-1.0
	0.8s		18.15nm	5.1mb	
IMA	81.44	20	eP	26 33.82	-0.3
	0.9s		4.64nm	4.5mb	
KLU	82.02	25	iPc	26 37.12	0.0
FBA	82.89	22	eP	26 40.01	-1.5
	0.8s		13.44nm	5.1mb	
BALM	83.38	27	iPd	26 43.96	-0.3
INK	89.45	21	ePd	27 14.40	0.7
	1.0s		3.00nm	4.5mb	
GMW	90.90	42	eP	27 21.52	0.7
TNP	94.09	52	eP	27 36.95	1.0
	0.8s		4.96nm	5.0mb	
TPNV	94.79	53	eP	27 40.72	1.6
	1.0s		6.52nm	5.0mb	
YKA	96.49	28	eP	27 44.90	-1.2
	0.9s		4.10nm	4.9mb	
BUL	118.69	244	ePKP	33 04.40	-2.1
SKO	123.01	317	ePKP	33 13.00	-0.9
PRU	123.04	329	ePKP	33 12.00	-1.7
KHC	124.05	328	ePKP	33 16.00	0.2
			e	33 47.00	
GEC2	124.16	328	ePKP	33 15.90	-0.2
	0.7s		1.90nm		
			e	33 19.10	
			e	33 23.00	
BSF	128.34	331	ePKP	33 24.10	-0.1
	0.9s		8.50nm		
HAU	128.44	331	ePKP	33 24.50	0.2
	1.0s		10.60nm		
	Z 21s		0.08um	4.4Msz	
LPG	129.95	328	ePKP	33 32.10	4.5X
	0.8s		3.75nm		
LBF	130.30	331	ePKP	33 31.40	3.5X
	1.0s		4 60nm		
SSF	130.46	332	ePKP	33 31.20	3.1X
	0.7s		3.10nm		
AVF	130.73	332	ePKP	33 32.20	3.6X
	0.8s		3.65nm		
BCAO	133.49	271	ePKPd	33 34.13	-0.7
	1.5s		38.00nm		
			ic	33 35.80	
CNCB	134.80	120	PKP	33 35.00	-2.9X
LPB	134.82	120	ePKP	33 43.00	5.2X
ZOBO	134.92	119	PKP	33 37.80	-0.4
PPD	144.44	141	ePKP	33 52.20	-2.3X
IFR	144.87	325	ePKP	33 47.00	-8.2X
			i	33 55.00	
			i	34 22.00	
AVE	146.29	328	iPKPc	33 58.50	1.2
TIO	148.00	325	iPKPc	34 04.00	3.7X

S.D. = 1.1 on 50 of 62 obs.

% MAY 28, 1993 00h 25m 13.39± 1.09s
45.620 N ±10.8km 25.212 E ± 7.6km
DEPTH = 10.0km (geophysicist)
ROMANIA (358)

CMP	0.37	199	iPc	25 22.00	0.9
MTUR	0.41	195	iPc	25 20.00	-1.8
MLR	0.53	104	iPc	25 20.00	-4.2X
TNR	0.66	273	ePc	25 27.00	0.5
CVO	0.70	73	iPd	25 26.20	-1.1
ISR	1.06	117	ePc	25 34.00	0.7
VRI	1.09	76	iPd	25 33.00	-0.9
BRD	1.30	94	eP	25 39.00	1.6
CLI	1.72	56	iPc	25 20.00	-23.5X
GZR	1.73	263	ePd	25 49.00	5.3X

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

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* MAY 28, 1993 01h 52m 23.48± 1.26s
19.229 N ±15.1km 63.147 W ± 8.5km
DEPTH = 33.0km (normal)
3.7mb (1 obs.)
LEEWARD ISLANDS (92)

BPA	2.49	150	eP	53 04.86	2.2
LPR	2.74	251	P	53 06.00	-0.1
CPD	2.88	246	P	53 08.50	0.4
SJG	3.06	249	iP	53 10.80	0.1
CLLP	3.45	251	P	53 16.20	0.0
APR	3.48	258	P	53 16.70	0.1
PORP	3.51	251	P	53 17.00	-0.1
DEG	3.52	145	eP	53 15.00	-2.2

LRS	3.63	256	P	53 18.10	-0.6
MGP	3.93	253	P	53 23.00	0.0
YKA	55.72	334	eP	01 59.10	0.2
	0.6s		0.50nm	3.7mb	

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

? MAY 28, 1993 02h 20m 25.17± 1.89s
39.483 N ±10.5km 15.770 E ±12.9km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

CZI	0.39	133	P	20 33.50	0.4
TDS	0.47	68	Pc	20 34.20	-0.6
			eSg	20 41.00	
CSI	0.50	54	P	20 36.50	1.3
ROI	0 62	82	P	20 36.80	-1.0
MGR	0.67	346	P	20 38.40	-0.2
			eSg	20 48.00	

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

? MAY 28, 1993 03h 25m 04.47±11.62s
8.764 S ±94.4km 120.017 E ±53.8km
DEPTH = 186.0 ± 40.5 km
4.9mb (6 obs.)
FLORES REGION, INDONESIA (286)

KNA	11.01	130	eP	27 37.80	-0.2
			eS	29 37.00	
MTN	11.64	111	eP	27 46.30	0.1
	0.3s		87.00nm	5.7mb	
			eS	29 50.00	
MBL	12.33	181	eP	27 55.50	0.5
	0.3s		4.00nm	4.4mb	
			eS	30 04.00	
WB2	17.77	130	iPc	29 01.00	-0.5
	0.3s		9.50nm	4.7mb	
			eS	32 17.60	
MEEK	17.83	184	eP	29 01.30	-0.8
	0.3s		13.00nm	4.8mb	
			eS	32 16.00	
WARB	18.43	161	eP	29 03.00	-5.5X
			eS	32 32.00	
ASPA	19.91	140	eP	29 23.80	0.1
	0.3s		24.10nm	5.2mb	
			eS	33 00.10	
STK	30.51	142	iPd	31 03.00	0.8
	0.3s		8.60nm	5.0mb	

S.D. = 0.8 on 7 of 8 obs.

MAY 28, 1993 03h 34m 12.01± 0.85s
19.290 N ± 9.8km 63.218 W ± 5.5km
DEPTH = 33.0km (normal)
3.8mb (1 obs.)
LEEWARD ISLANDS (92)

CPB	2.11	141	eP	34 44.99	-0.6
NEV	2.23	164	eP	34 54.00	6.6X
BPA	2.58	150	eP	34 52.71	0.3
LPR	2.69	249	P	34 54.00	0.0
MGH	2.73	159	eP	34 55.50	1.0
SJG	3.02	248	iP	34 58.80	0.2
CLLP	3.40	250	P	35 04.10	0.0
APR	3.43	256	P	35 04.50	0.1
PORP	3.47	250	P	35 05.00	0.0
PAG	3.56	155	eP	35 06.00	-0.4
			S	35 46.00	
LRS	3.58	254	P	35 06.00	-0.6
DEG	3.60	145	eP	35 03.50	-3.5X
MGG	3.81	151	eP	35 09.50	-0.3
MGP	3.89	251	P	35 11.00	0.1
YKA	55.63	334	eP	43 47 00	0.2
	0.5s		0.50nm	3 8mb	

S.D. = 0.5 on 13 of 15 obs.

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* MAY 28, 1993 04h 22m 35.57± 0.83s
23.812 S ±10.2km 66.842 W ±10.7km
DEPTH = 208.9 ± 10.8 km
3.7mb (1 obs.)
JUJUY PROVINCE, ARGENTINA (128)

HJA	1.45	66	iPd	23 10.00	0.1
			S	23 14.20	
YJA	2.05	37	iPd	23 16.00	-0.1
FSA	2.38	162	iPd	23 18.60	-0.5
ANT	3.28	271	iP+	23 29.80	0.5
			iS	24 11.30	
CNCB	7.04	351	P	24 19.00	1.2

LPB	7.34	351	eP	24	22.00	0.5
ZOBO	7.60	351	P	24	23.00	-2.1
PPD	14.42	86	eP	25	52.00	0.4
VAO	18.26	91	eP	26	26.30	-9.8X
YKA	94.00	340	eP	35	30.20	-0.1
	0.6s		0.40nm			3.7mb

S.D. = 1.2 on 9 of 10 obs.

% MAY 28, 1993 04h 31m 16.00± 0.82s
38.984 N ± 7.2km 27.594 E ± 8.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

IZM	0.64	204	ePg	31	28.80	-0.1
			eSg	31	38.30	
DST	1.01	52	iPn	31	35.40	0.2
EZN	1.29	311	ePn	31	40.30	0.4
EDC	1.38	9	ePn	31	41.00	-0.2
KCT	1.39	25	iPn	31	41.70	0.2
KGT	1.48	351	iPn	31	42.20	-0.5

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

? MAY 28, 1993 04h 32m 29.56± 1.20s
44.277 N ±11.8km 8.319 E ±12.9km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.7 (GEN).

FIN	0.10	229	P	32	32.55	0.2
			S	32	34.19	
PCP	0.31	31	P	32	36.02	0.0
			S	32	39.73	
ROB	0.32	273	P	32	36.25	0.0
			S	32	40.33	
IMI	0.48	220	P	32	39.18	-0.1
			S	32	45.32	

S.D. = 0.2 on 4 of 4 obs

& MAY 28, 1993 04h 47m 40.60s
35.149 N 119.104 W
DEPTH = 21.4km
4 6mb (17 obs.) 4.7Msz (1 obs.)
CENTRAL CALIFORNIA (39)
<PAS-P>. ML 5.2 (PAS), 5.1 (BRK). Slight damage (VI) at Pumpkin Center. Felt (V) at Bakersfield, Di Giorgio, Fillmore, Mettler, Mojave, Oildale, Ojai and Shafter; (IV) at Bodfish, California Hot Springs, Ducor, Fellows, Lake Hughes, Lomont, Lancaster, Lebec, Maricopa, McKittrick, New Cuyama, Simi Valley, Taft, Visalia, Wasco and Wofford Heights; (III) at Agouro Hills, Delano, Fullerton, Glendale, Glennville, Lindsay, Orange Cove, Piru, Resedo, Rosamond, Santa Barbara and Summerland. Felt throughout a large part of central and southern California.

ABL	0.31	198	iPc	47	46.91	-0.9
ISA	0.73	45	eP	47	53.43	-1.1
			eS	48	03.16	
BCH	0.80	273	iPc	47	54.64	-1.2
PKEM	1.22	318	eP	48	01.38	-1.1
PHAM	1.26	303	eP	48	01.01	-2.0
SSK	1 49	128	ePd	48	06.13	-0 4
PRI	1.61	308	iPd	48	06.33	-1.8
GSC	1.89	85	iPc	48	10.74	-1.4
FRI	1.90	345	iPd	48	11.42	-0.8
PEC	2 04	127	ePc	48	12.61	-1 6
LLA	2.09	315	iPd	48	12.85	-2.2
PRS	2.19	303	iPd	48	13.93	-2.5
SAO	2.49	311	eP	48	18.58	-2.1
MEMM	2.52	3	ePd	48	22.22	1.2
PLM	2.58	133	ePd	48	20.70	-1.5
BONR	2.87	13	eP	48	26.27	-0.1
TPNV	2.93	51	ePc	48	26.49	-0.5
			ePg	48	34.67	
			eS	49	08.14	
ARN	2.95	319	eP	48	24.81	-2.3
MHC	3.00	318	ePc	48	26.88	-1.1
			iS	49	20.28	
GCC	3.00	310	iP	48	24.96	-2.9
CMB	3.06	341	ePd	48	27.92	-0.9
			eS	49	04.77	
TNP	3.30	27	ePn	48	32.18	-0.1
			ePg	48	39.70	
STAN	3.35	313	iPc	48	31.28	-1.5
BKS	3.71	318	ePd	48	35.31	-2.7
			eS	49	47.11	
ZSP	3.77	319	iP	48	36.77	-2.1
KVN	3.98	11	ePn	48	41.89	0.0
			ePg	48	52.37	
			eS	49	35.00	
NTYM	4.31	320	ePn	48	43.83	-2.7
ORV	4.79	337	iP	48	52.55	-0.8
ARUT	5.27	58	ePn	48	59.29	-1.0
			ePg	49	17.55	
			eLg	50	29.76	
MIN	5.55	340	ePc	49	04.48	0.3
			eS	50	25.88	
WDC	6.06	334	eP	49	09.88	-1.4
			eS	50	25.71	
MSU	6.49	57	ePn	49	16.69	-0.9
			ePg	49	41.83	
LBFM	6.56	341	eP	49	18.85	0.3
FOX	6.61	326	iP	49	18.32	-0.7
EKR	6.82	326	iP	49	20.70	-1.1
FHC	6.83	327	iPd	49	21.68	-0.4
DUG	7.09	43	ePn	49	25.97	0.2
			ePg	49	52.08	
TUC	7.49	110	eP	49	26.61	-4.7
SRU	7.91	57	eP	49	37.90	0.5
EMUT	8.07	52	eP	49	40.79	1.2
DAU	8.14	47	(P)	49	40.78	0.1
HVU	8.27	35	(P)	49	43.22	0.8
ALO	10.37	88	eP	50	10.11	-1.3
			ePg	50	54.13	
			Lg	53	03.30	
VGB	10.43	353	(P)	50	11.22	-0.8
BW06	10.64	41	eP	50	15.56	0.5
			Lg	53	17.14	
MCMT	10.79	24	eP+	50	19.60	2.5
SHW	11.28	349	(P)	50	24.30	0.6
BMW	11.74	346	(P)	50	29.73	-0.1
LON	11.77	351	(P)	50	29.25	-1.0
LRM	11.80	23	eP	50	33.60	2.8
GMW	12.69	349	(P)	50	42.97	0.4
DPW	12.73	3	(P)	50	39.87	-3.2
NEW	13.19	6	(P)	50	49.84	0.7
	1.0s		36.61nm			5.4mb
			Lg	54	38.70	
LTX	14.29	110	eP	51	01.16	-2.6
RSSD	14.65	48	ePd	51	07.81	-0.7
	1.2s		54.67nm			4.9mb
			Lg	55	23.31	
ACO	16.24	79	iPc	51	29.50	0.4
OCO	17.65	83	iPc	51	36.60	-10.2
FNO	17.74	83	iPd	51	49.60	1.8
MIAR	20.95	84	ePc	52	23.63	-0.8
	0.9s		60.53nm			5.0mb
OLY	22.53	81	eP	52	39.70	-0.5
ULM	22.65	41	eP	52	41.50	0.2
FVM	23.17	75	eP	52	46.18	-0.4
	1.1s		37.08nm			4.8mb
ELC	24.16	76	eP	52	56.71	0.6
YKA	27.51	5	eP	53	23.70	-3.5
	0.7s		1.40nm			3.8mb
GBTN	28.36	79	eP	53	34.07	-1.1
FCC	28.82	27	eP	53	35.50	-3.5
PRM	30.15	81	eP	53	50.13	-1.1
NAV	30.84	75	eP	53	56.58	-0.8
KDC	31.72	326	(P)	54	03.54	-1.2
	0.9s		7.34nm			4.6mb
EEO	32.04	57	eP	54	08.50	0.8
SLKM	32.31	331	eP	54	09.04	-0.9
PMS	32.52	333	eP	54	11.90	0.1
	1.1s		24.20nm			5.0mb
			e	54	18.30	
PMR	32.58	334	eP	54	11.48	-0.7
	0.9s		9.14nm			4.7mb
RSO	33.30	330	P	54	18.90	0.1
INK	34.20	351	eP	54	26.00	-0.2
	1.0s		4.00nm			4.3mb
F8A	34.41	339	P	54	36.64	8.5
	1.0s		4.71nm			4.4mb
GAC	34.46	59	eP	54	27.50	-1.2
SVW	34.83	330	eP	54	37.40	5.6
	0.7s		21.28nm			5.2mb
RSNY	35.11	61	eP	54	32.47	-1.9
	1.0s		7.30nm			4.5mb
BGR	35.22	60	P	54	40.70	5.4
TTA	35.96	332	eP	54	40.52	-0.9
	0.8s		7.06nm			4.6mb
			e	54	46.93	
IMA	37.01	337	eP	54	49.25	-1.0
	0.9s		5.68nm			4.4mb
			e	54	56.05	
MBC	41.19	360	eP	55	24.00	-0.6
	1.0s		7.00nm			4.3mb
FRB	41.85	31	eP	55	29.50	-0.7
	1.0s		3.00nm			4.0mb
LMN	41.92	58	eP	55	41.50	10.4
ZOBO	70.37	128	P	58	59.00	3.3
LPB	70.58	128	eP	58	50.00	-6.8
CNCB	70.86	128	eP	58	58.00	-0.7
CCH	72.48	127	eP	59	14.00	5.9
MOCB	75.61	129	P	59	33.50	7.2
NB2	75.96	22	P	59	24.40	-2.9
	0.9s		1.30nm			4.0mb
GRF	84.76	30	eP	00	14.60	0.4
Z	21s		0.30um			4.7Msz
PPD	85.78	121	eP	00	28.30	8.6
PRU	85.83	28	eP	00	27.50	7.9
GUMO	87.13	284	eP	00	27.00	0.5
BUL	147.90	71	ePKP	07	23.60	0.4

96 obs. associated

& MAY 28, 1993 04h 54m 20.18s
60.159 N 153.361 W
DEPTH = 136.6km
SOUTHERN ALASKA (2)
<AEIC>.

INW	0.15	129	iPd	54	38.12	0.6
			eS	54	52.67	
INE	0.18	123	ePd	54	38.19	0.6
			eS	54	52.98	
ILIM	0.22	111	eP	54	38.26	0.7
			eS	54	52.83	
RDW	0.43	40	ePc	54	39.25	-0.9
RSO	0.43	45	ePc	54	39.11	-1.0
			eS	54	53.55	
NCT	0.46	28	iPc	54	39.33	-0.8
			eS	54	54.30	
RDN	0.46	40	ePc	54	39.46	-0.8
			eS	54	54.79	
OPT	0.51	173	ePd	54	41.32	1.0
DFR	0.55	37	eP	54	39.53	-1.1
PDB	0.56	229	iPd	54	39.60	-1.0
			eS	54	55.05	
AUL	0.78	183	ePd	54	41.24	-0.9
AUH	0.80	183	iPd	54	41.49	-0.8
AUP	0.80	182	ePd	54	41.45	-0.9
AUE	0.80	180	ePd	54	41.25	-1.0
AUI	0.83	182	ePd	54	41.45	-1.0
XLV	1.09	130	ePd	54	43.19	-1.6
			eS	55	01.83	
MCNL	1.10	207	iPd	54	43.70	-1.2
			eS	55	02.28	
CKL	1.16	25	iPc	54	44.83	-0.8
NKA	1.20	60	ePc	54	46.09	0.2
BGL	1.21	23	ePc	54	45.51	-0.6
SPU	1.21	32	iPc	54	44.96	-1.1
			eS	55	05.82	
BGM	1.22	232	P	54	48.90	2.8
CDD	1.24	187	iPd	54	44.92	-1.4
			eS	55	04.39	
CNPM	1.25	120	iPd	54	44.96	-1.4
			eS	55	04.54	
CPAM	1.25	28	iPc	54	45.75	-0.8
CRP	1.26	28	iPc	54	45.90	-0.8
BRLK	1.31	107	eP	54	45.87	-1.2
			eS	55	04.94	
CGLM	1.33	29	ePc	54	46.30	-1.1
SVW	1.47	312	P	54	47.90	-0.9
			S	55	09.50	
SLKM	1.60	76	ePc	54	48.25	-2.0
SYI	1.63	162	ePd	54	48.92	-1.6
			eS	55	11.75	
SUA	1.83	43	ePc	54	51.66	-1.4
			eS	55	17.06	
SEW	1.96	90	eP	54	52.40	-2.0
			eS	55	17.51	
MPA	2.02	79	ePc	54	52.98	-2.1
			eS	55	19.00	

28d 04h

SKT	2.03	25	ePc	54	54.05	-1.3
			eS	55	20.77	
PMS	2.16	58	P	54	54.70	-2.3
PTE	2.26	70	eP	54	55.47	-2.6
PWA	2.27	47	P	54	56.20	-2.0
			S	55	25.40	
KDC	2.46	169	eP	54	56.90	-3.7
			eS	55	26.25	
PLRM	2.52	53	ePc	54	58.65	-2.7
PMR	2.52	53	eP	54	57.74	-3.6
			eS	55	27.40	
GHO	2.70	51	ePc	55	00.97	-2.9
			eS	55	33.27	
SML	2.96	54	ePc	55	03.85	-3.2
			eS	55	38.60	
TTA	3.06	337	e(P)	55	06.30	-2.1
HUR	3.34	31	eP	55	10.31	-1.8
SCM	3.38	58	ePc	55	09.63	-3.1
HIN	3.42	83	eP	55	09.97	-3.3
VLZ	3.60	71	eP	55	11.94	-3.5
			eS	55	53.45	
TRF	3.61	22	ePd	55	14.01	-1.8
			eS	55	55.66	
CVA	3.80	81	eP	55	15.56	-2.6
KLU	3.88	67	iPc	55	15.91	-3.4
RND	3.90	31	eP	55	17.68	-1.9
SGAM	4.07	82	eP	55	18.85	-2.9
MCK	4.15	28	eP	55	21.08	-1.8
TZL	4.29	60	eP	55	22.06	-2.7
SDG	4.45	54	eP	55	24.26	-2.6
HMT	4.54	84	eP	55	25.65	-2.4
PAX	4.71	50	ePc	55	27.86	-2.6
GLB	4.85	70	eP	55	30.19	-2.1
NEA	4.86	22	ePd	55	30.38	-2 0
WRH	4.98	27	ePc	55	31.23	-2.7
MLY	5.04	13	eP	55	33.97	-0.8
CROM	5.10	79	ePc	55	33.39	-2.3
CCB	5 19	27	eP	55	34.04	-2.8
HDA	5.21	32	ePc	55	34.24	-2.8
WAX	5 24	82	eP	55	33.83	-3.7
MDM	5.37	24	ePd	55	36.97	-2.3
FBA	5.41	26	P	55	37.20	-2.6
BALM	5.50	76	ePc	55	38.93	-2.2
GLM	5.58	27	ePd	55	39.27	-2.8
DCT	5.62	47	eP	55	39.52	-3.1
YAH	5.79	83	ePc	55	43.22	-1.9
IMA	5.93	359	e(P)	55	46.40	-0.7
PRP	6.46	30	ePc	55	49.59	-4.6
INK	11.82	38	eP	57	04.50	-0.8
MBC	19.94	23	eP	58	43.50	0.6
	0.5s		6.00nm		4.2mb X	
	76 obs. associated					

MAY 28, 1993 05h 17m 19.15± 0.53s
53 563 N ± 8.0km 167.090 W ± 6.8km
DEPTH = 33.0km (normal)
4.5mb (14 obs.)
FOX ISLANDS, ALEUTIAN ISLANDS (9)
ML 4.7 (PMR). Felt (IV) at Unalaska and Akutan.

SDN	4.24	63	eP	18	23.63	0.6
			(S)	19	25.18	
ADK	6.07	258	eP	18	48.42	-0.4
KDC	9.25	57	eP	19	31.33	-1.8
SVW	9.77	35	eP	19	40.01	-0.3
			Lg	22	39.99	
RSO	10.42	43	eP	19	50.14	0.7
TTA	11.04	27	eP	19	57.53	-0.2
			Lg	23	16.77	
SMY	11 33	273	eP	20	02.12	0.6
SLKM	11.50	46	eP	20	03.38	-0.6
PMS	12.16	44	eP	20	11.20	-1.6
PMR	12.51	43	eP	20	14.48	-3.0X
KLU	13.82	47	eP	20	31.28	-3.5X
IMA	14.19	23	eP	20	40.39	0.7
	0.9s		11.97nm		4.5mb	
FBA	14.97	33	eP	20	50.18	0.5
	1.0s		12.44nm		4.2mb	
BALM	15.25	51	eP	20	50.02	-3.5X
BPW	18.38	11	eP	21	33.83	1.1
INK	21.59	34	eP	22	07.00	-0.5
	0.5s		4.00nm		4.1mb	
YKA	28.42	51	eP	23	11.00	-1.3
	1.0s		5.40nm		4.2mb	
MBC	28.92	21	eP	23	17.50	0.9
	0.5s		1.00nm		3.8mb	

NEW	31.41	79	eP	23	38.91	-0.1
	0.9s		29 60nm		5.1mb	
LRM	35.40	80	eP	24	14.50	0.6
BCH	37.48	100	eP	24	32.44	1.2
ABL	38.22	100	(P)	24	38.72	1.1
DUG	38.49	88	eP	24	39.01	-0.8
	1.3s		11.59nm		4.5mb	
BW06	38.84	82	eP	24	42.58	-0.3
	0.9s		7.08nm		4.4mb	
FCC	39.12	52	eP	24	51.00	6.4X
GSC	39.33	97	eP	24	47.42	0.6
ARUT	39.66	91	eP	24	49.31	-0.3
MSU	39.94	89	eP	24	52.58	0.6
SRU	40.54	87	eP	24	57.24	0.4
RSSD	41.28	77	eP	25	03.05	0.2
	1.2s		10.45nm		4.4mb	
ULM	42.38	64	eP	25	14.50	3.0
TUC	45.00	95	eP	25	33.00	-0.1
	1.2s		8.73nm		4.5mb	
FRB	47.20	37	eP	25	49.00	-0.9
	1.0s		4.00nm		4.4mb	
JAO	50.38	50	eP	26	13.50	-1.2
LTX	51.38	92	eP	26	20.75	-1.9
EEO	53.42	59	eP	26	39.50	1.9
MIAR	53.65	79	eP	26	37.91	-1.5
	1.6s		13.23nm		4.7mb	
GAC	55.89	58	eP	26	55.50	-0.1
RSNY	57.18	58	eP	27	03.52	-1.4
	1.1s		9.77nm		4.8mb	
EMM	60.52	54	(P)	27	29.03	1.0
CEH	60.96	68	(P)	27	31.38	0.2
	0.6s		9.57nm		5.1mb	
LMN	60.97	51	eP	27	33.00	1.9
BUL	144.52	334	ePKP	36	51.40	-2.4
	S.D = 1.2		on 39 of 43 obs.			

% MAY 28, 1993 05h 29m 35.96± 2.09s
31.260 S ±18.4km 68 241 W ±12.8km
DEPTH = 99.3 ± 24.3 km
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.21	250	iPc	29	50.10	-0.5
			(S)	30	00.00	
CFA	0.35	180	iPd	29	51.50	0.5
			S	30	03.00	
RTBS	1.11	249	e(P)c	29	57.90	0.1
			S	30	15.00	
RTPR	1.77	58	e(P)c	30	06.00	0.1
			(S)	30	29.10	
MRA	2.44	119	ePc	30	14.50	-0.4
TCA	3.13	92	ePc	30	24.50	0.2
			S	31	01.00	
	S.D. = 0.6		on 6 of 6 obs.			

% MAY 28, 1993 05h 39m 00.34± 0.97s
44.288 N ± 8.8km 8.300 E ± 8.6km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.9 (GEN).

FIN	0.10	220	P	39	03.36	0.2
			S	39	05.01	
PCP	0.31	35	P	39	06.77	0.0
			S	39	11.19	
ROB	0.31	271	P	39	07.02	0.2
			S	39	11.19	
IMI	0.48	218	P	39	09.95	-0.2
			S	39	16.64	
ENR	0.64	265	P	39	13.05	-0.1
			S	39	21.42	
STV	0.70	267	P	39	14.10	-0.2
	S.D. = 0.2		on 6 of 6 obs.			

? MAY 28, 1993 06h 40m 29.55± 6.91s
39.685 N ±40.0km 29 392 E ±39.9km
DEPTH = 5.0km (geophysicist)
TURKEY (366)
ML 2.3 (ISK).

DST	0.60	263	ePg	40	41.00	-0.5
			eSg	40	53.00	
YLV	0.88	359	ePn	40	46.70	-0.3
KCT	0.98	306	iPn	40	48.20	-0.4
KGT	1.78	296	ePn	41	02.20	1.1
	S.D. = 1.3		on 4 of 4 obs.			

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* MAY 28, 1993 06h 46m 10.90± 2.75s
37.867 N ±14.6km 20.650 E ±23.8km
DEPTH = 10.0km (geophysicist)
IONIAN SEA (399)
MD 3.2 (ATH).

VLS	0.31	351	ePg	46	18.00	0.6
IGT	1.68	352	eP	46	43.80	3.3X
AGG	1.75	48	eP	46	42.00	0.5
KEK	1.96	340	ePg	46	53.60	9.1X
VLI	2.15	121	ePb	46	41.10	-6.2X
KZN	2.59	19	ePn	46	55.00	1.4X
LIT	2.65	32	eP	46	56.32	1.9
PAIG	3.13	48	eP	47	01.36	0.1
OHR	3.24	2	eP	46	57.70	-5.1X
			i	47	15.70	
GRG	3.37	23	eP	47	03.60	-1.1
SOH	3.62	35	eP	47	07.84	-0.4
KNT	3.72	27	eP	47	08.64	-1.0
VAY	3.75	23	eP	47	09.40	-0.7
VAM	3.77	130	ePn	47	21.20	10.9X
			eSn	47	32.50	
NPS	4.77	122	ePb	47	24.50	0.0
			eSn	47	37.00	
	S.D. = 1.1		on 9 of 15 obs.			

? MAY 28, 1993 06h 50m 38.48± 1.19s
19.100 N ±20.1km 98.721 W ± 8.6km
DEPTH = 10.0km (geophysicist)
CENTRAL MEXICO (523)

IIA	0.08	51	iP	50	40.50	-0.4
			iS	50	46.50	
PPM	0.10	110	iP	50	41.00	-0.6
			iS	50	48.00	
CRX	0.96	289	(P)	50	57.00	0.1
III	1.01	225	iP	50	52.50	-5.2X
			iS	51	07.50	
IISM	1.28	95	(P)	51	03.00	0.8
	S.D. = 1.1		on 4 of 5 obs.			

& MAY 28, 1993 06h 58m 36.15s
60 005 N 141.353 W
DEPTH = 6.4km
SOUTHEASTERN ALASKA (19)
<AEIC>. ML 2 8 (AEIC), 3.0 (PGC).

YAH	0.41	332	iP	58	44.54	0.1
			eS	58	52.82	
WAX	0.87	301	iP	58	51.97	-1.3
CTGM	0.96	1	iP	58	54.03	-0.9
			eS	59	08.18	
TGL	1.05	316	eP	58	54.90	-1.5
			eS	59	10.39	
BALM	1.15	335	eP	58	56.29	-1.7
CROM	1.16	311	eP	58	56.57	-1.8
			eS	59	13.37	
HMT	1.49	284	eP	59	02.05	-1.4
GLB	1.88	321	eP	59	07.69	-1.4
SGAM	1.99	286	eP	59	08.90	-1.7
HYT	2.08	65	Pn	59	11.50	-0.6
			Lg	59	40.00	
CVA	2.26	286	eP	59	12.14	-2.3
KLU	2.69	306	eP	59	19.09	-1.7
VLZ	2.71	297	eP	59	19.02	-1.8
PMR	4.13	296	(P)	59	38.91	-2.1
	0.8s		6.05nm			
	14 obs. associated					

MAY 28, 1993 07h 04m 00.61± 2.92s
23.382 S ±18.6km 66.848 W ±18.6km
DEPTH = 212.8 ± 44.1 km
JUJUY PROVINCE, ARGENTINA (128)

HJA	1.34	83	e(P)d	04	49.70	15.3X
YJA	1.73	46	iPd	04	38.00	-0.3
SLA	1.82	138	iPc	04	39.10	0.2
			S	05	08.20	
MOCB	2.40	28	P	04	45.50	0.4
ANT	3.29	264	eP	04	54.50	-0.2
			eS	05	34.00	
CCH	6.00	7	eP	05	28.00	-1.1
CNCB	6.62	351	P	05	39.00	1.7
ZOBO	7.18	350	P	05	44.00	-0.5
	S.D. = 1.3		on 7 of 8 obs.			

& MAY 28, 1993 07h 12m 19.17s

63.143 N 148.377 W
DEPTH = 71.7km
CENTRAL ALASKA (1)
<AEIC>.

RND	0.34	321	iPd	12 31.15	0.1
			eS	12 40.12	
HUR	0.60	254	iPd	12 33.03	-0.3
			eS	12 43.79	
MCK	0.64	337	ePc	12 34.00	0.2
			eS	12 44.73	
TRF	0.92	291	iPd	12 37.35	0.2
			eS	12 51.09	
THY	1.22	76	eP	12 41.65	0.8
			eS	12 58.24	
PAX	1.34	96	ePc	12 42.42	-0.1
			eS	13 00.46	
SML	1.34	179	iPc	12 42.03	-0.5
WRH	1.34	5	iPc	12 41.93	-0.5
			eS	12 58.36	
GHO	1.40	191	iPd	12 43.04	-0.3
SCM	1.40	159	ePc	12 42.84	-0.5
			eS	13 02.15	
HDA	1.42	26	iPc	12 43.09	-0.4
			eS	13 00.93	
SDG	1.44	114	ePc	12 43.89	0.1
			eS	13 03.13	
NEA	1.47	348	ePc	12 43.54	-0.7
			eS	13 01.73	
CCB	1.53	9	iPc	12 44.33	-0.7
			eS	13 02.87	
PLRM	1.60	193	eP	12 45.98	0.1
PMR	1.60	193	eP	12 45.27	-0.6
			eS	13 00.93	
PWA	1.65	206	P	12 47.40	0.8
			S	13 09.60	
TZL	1.76	128	eP	12 48.44	0.4
FBA	1.78	8	iPc	12 47.67	-0.8
MDM	1.82	2	ePc	12 48.60	-0.4
			eS	13 09.65	
SKT	1.87	233	iPd	12 49.29	-0.4
			eS	13 12.62	
GLM	1.90	13	iPc	12 49.49	-0.6
			eS	13 11.67	
PMS	1.98	197	P	12 51.70	0.4
KLU	2.01	144	eP	12 51.21	-0.5
			eS	13 18.25	
SUA	2 02	214	eP	12 52.36	0.6
			eS	13 18.82	
MLI	2 16	332	iPc	12 53.21	-0.5
			eS	13 17.76	
VLZ	2.24	154	eP	12 53.49	-1.1
PTE	2.31	188	eP	12 55.74	0.1
CGLM	2.51	224	eP	12 58.80	0.3
CRP	2.58	225	eP	13 00.42	0.7
CPAM	2.59	225	eP	13 00.59	0.9
SPU	2.62	223	eP	13 00.65	0.6
CKL	2.70	225	eP	13 02.26	1.1
MPA	2.70	190	eP	13 01.98	0.8
GLB	2.73	127	eP	13 00.13	-1.5
SLKM	2.79	199	eP	13 02.84	0.5
CVA	2.89	153	eP	13 02.59	-1.1
HIN	2.90	161	eP	13 02.51	-1.4
SGAM	3.05	149	eP	13 04.42	-1.6
SEW	3.09	190	eP	13 06.91	0.3
PAGM	3.28	146	eP	13 07.04	-2 2
RSO	3.40	220	eP	13 11.08	0.0
TTA	3.48	270	e(P)	13 12.50	0.3
BALM	3.54	124	eP	13 11.90	-1.0
IMA	3.72	324	ePc	13 14.10	-1.4
ILIM	3.77	217	eP	13 16.19	0.0
CNPM	3.88	202	eP	13 17.42	-0.3
SVW	3.97	242	(P)	13 17.44	-1.5
PDB	4.37	222	eP	13 24.25	-0.3
AUL	4.49	215	eP	13 26.12	-0.1
AUH	4.51	215	eP	13 26.43	-0.2
CDD	4.94	214	ePd	13 31.73	-0.8

52 obs. associated

• MAY 28, 1993 07h 33m 10.75± 0.55s
31.196 S ±10.4km 68.302 W ± 9.2km
DEPTH = 100.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.20	227	iPc	33 25.20	-0.3
CFA	0.41	173	iPc	33 26.20	0.0
ZON	0.48	223	iPd	33 26.90	0.3
			eS	33 36.90	
RTCV	0.69	197	iPd	33 28.30	-0.1
RTBS	1.09	244	iPd	33 32.50	0.1
RTPR	1.78	60	iPc	33 41.60	0.7
TCA	3.18	94	iPc	33 59.50	-0.3
			S	34 35.50	
FSA	5.48	22	eP	34 31.00	-0.3

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

% MAY 28, 1993 08h 01m 55.74± 1.96s
38.493 N ±12.7km 26.633 E ±16.5km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
ML 3.3 (ISK).

IZM	0.50	101	iPg	02 05.80	-0.2
			iSg	02 13.00	
EZN	1.35	350	ePn	02 21.00	0.4
CIN	1.45	127	eP	02 22.00	0.0
DST	1.91	54	ePn	02 29.20	0.5
KGT	2.02	15	iPn	02 29.20	-1.1
KCT	2.20	37	ePn	02 33.20	0.3

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

? MAY 28, 1993 09h 00m 38.84± 1.06s
38.546 N ±10.5km 28.694 E ± 8.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK)

KHL	0.69	109	iPg	00 52.50	0.0
			eSg	01 02.50	
DST	1.06	357	ePn	00 58.20	-0.6
IZM	1.13	263	ePn	01 00.00	-0.1
KCT	1.72	351	ePn	01 09.70	0.7

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

? MAY 28, 1993 09h 20m 20.90± 4.45s
39.517 N ±31.7km 29.637 E ±20.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

DST	0.78	277	ePg	20 36.00	-0.2
			eSg	20 47.50	
YLV	1.07	349	ePn	20 40.60	-0.5
EYL	1.12	21	ePn	20 42.20	0 2
KCT	1.23	307	ePn	20 44.20	0.5

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

% MAY 28, 1993 09h 28m 48.55± 0.83s
39.060 N ± 6.9km 27.599 E ± 8.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

IZM	0.71	202	ePg	29 02.50	-0.1
			eSg	29 12.50	
DST	0.97	55	iPn	29 07.20	0.2
EZN	1.25	308	ePn	29 12.00	0.3
EDC	1.30	9	ePn	29 12.00	-0.6
KCT	1.32	26	iPn	29 13.20	0.2
KGT	1.41	351	iPn	29 14.20	0.0

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

% MAY 28, 1993 09h 30m 35.64± 0.87s
38.749 N ± 8.0km 27.537 E ±11.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

IZM	0.41	212	ePg	30 44.00	-0.1
DST	1.20	44	iPn	30 58.20	0.1
EZN	1.43	319	iPn	31 01.90	0.3
EDC	1.62	9	ePn	31 04.00	-0.2
KCT	1.63	23	ePn	31 04.70	0.3
KGT	1.71	354	iPn	31 05.20	-0.4

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

% MAY 28, 1993 09h 43m 41.63± 0.70s
40.591 N ± 6.4km 23.461 E ± 8.3km
DEPTH = 10.0km (geophysicist)
GREECE (364)

SOH	0.24	340	ePg	43 46.96	0.1
			eSg	43 50.56	
OUR	0.47	123	ePg	43 51.48	0.2
			eSg	43 58.30	
SRS	0.53	11	ePg	43 52.44	0.0
PAIG	0.68	166	ePg	43 54.88	-0.3
			eSg	44 05.68	
KNT	0.71	323	iPg	43 55.12	-0.6
			eSg	44 06.24	
GRG	0.88	295	ePg	43 59.12	0.5
			eSg	44 11.50	

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

& MAY 28, 1993 09h 49m 03.46s
62.354 N 147.732 W
DEPTH = 51.0km
4.0mb (3 obs.)
CENTRAL ALASKA (1)
<AEIC>. ML 3.8 (AEIC), 4.6 (PMR). Felt (IV) ot Copper Center.

SCM	0.56	160	iPc	49 14.82	-0.8
SML	0.62	208	iPd	49 15.71	-0.6
			eS	49 25.90	
GHO	0.81	224	iPd	49 18.16	-0.7
			eS	49 30.28	
PLRM	1.01	221	iPc	49 20.53	-1.0
			eS	49 34.49	
PMR	1.01	221	eP	49 20.21	-1.3
			eS	49 34.29	
SDG	1.03	79	iPc	49 20.95	-0.9
			eS	49 33.72	
HUR	1.08	306	iPc	49 21.52	-1.0
			eS	49 36.52	
TZL	1.13	105	iPc	49 22.76	-0.4
RND	1.17	335	iPc	49 23.05	-0.8
			eS	49 38.44	
CUT	1.18	274	eP	49 23.56	-0.4
PAX	1.21	58	iPc	49 23.39	-1.1
			eS	49 39.35	
KLU	1.22	134	iPc	49 23.38	-1.1
PWA	1.23	236	P	49 24.50	-0.1
VLZ	1.40	151	iPc	49 25.21	-1.7
			eS	49 43.33	
THY	1.40	39	eP	49 26.36	-0.7
			eS	49 45.30	
PMS	1.41	219	P	49 26.70	-0.5
MCK	1.49	339	ePc	49 27.72	-0.5
TRF	1.61	314	iPc	49 28.81	-1.2
PTE	1.62	203	iPd	49 28.88	-1.1
			eS	49 49.74	
SUA	1.68	239	ePc	49 30.79	-0.3
SKT	1.82	260	ePc	49 32.00	-0.9
			eS	49 54.95	
MPA	2.03	203	ePd	49 33.72	-2.1
CVA	2.05	151	iPc	49 34.35	-1.7
HIN	2.05	163	iPc	49 34.37	-1.8
GLB	2.07	115	iPc	49 35.00	-1.5
			eS	50 00.15	
HDA	2.09	9	iPc	49 35.81	-0.9
			eS	50 01.70	
DOT	2.12	51	ePc	49 35.63	-1.5
WRH	2.13	356	iPc	49 35.88	-1.4
			eS	50 02.08	
SLKM	2.21	214	eP	49 37.65	-0.7
SGAM	2.22	146	iPc	49 35.97	-2.6
CGLM	2.28	245	iPc	49 38.48	-1.0
CCB	2.30	359	iPc	49 38.08	-1.6
			eS	50 05.45	
NEA	2.31	345	ePc	49 37.97	-1.9
			eS	50 05.19	
CPAM	2.37	244	ePc	49 39.52	-1.2
CRP	2.37	245	ePc	49 39.74	-1.0
SPU	2.37	242	eP	49 39.66	-1 0
TMW	2.38	64	eP	49 39.58	-1.2
SEW	2.41	201	eP	49 39.72	-1.4
BGL	2.47	246	eP	49 41.71	-0.4
CKL	2.48	244	ePc	49 40.89	-1.4
FBA	2.56	359	eP	49 41.24	-2.0
MDM	2.62	355	iPc	49 42.76	-1.5
			eS	50 12.68	
GLM	2.65	3	ePc	49 42.80	-1.8
CROM	2.72	124	ePc	49 44.19	-1.6
TGL	2.84	122	ePc	49 44.78	-2.7
BALM	2.89	115	iPc	49 45.65	-2.5
			eS	50 20.05	
DFR	2.96	236	eP	49 47.73	-1.5
MLY	3.00	335	iPc	49 48.01	-1.7
			eS	50 22.66	

28d 09h

MID	3.01	166	P	49	49.00	-0.8
BRLK	3.02	212	eP	49	48.48	-1.5
			eS	50	23.81	
RSO	3.07	234	eP	49	48.71	-2.2
			eS	50	31.24	
NCT	3.08	237	eP	49	49.49	-1.3
RDW	3.08	235	eP	49	49.63	-1.3
CNPM	3.31	213	iPd	49	52.15	-2.0
CTGM	3.35	112	ePc	49	52.55	-2.3
ILIM	3.41	230	eP	49	54.42	-1.0
INE	3.46	231	eP	49	55.09	-1.2
INW	3.48	231	eP	49	55.86	-0.6
YAH	3.51	122	ePc	49	53.76	-3.3
TTA	3.87	282	P	49	59.40	-2.5
SVW	3.96	255	eP	49	59.70	-3.5
PDB	4.06	234	eP	50	02.54	-2.0
AUE	4.08	225	eP	50	03.12	-1.7
AUH	4.10	225	eP	50	03.37	-1.8
AUI	4.11	225	P	50	06.60	1.3
FYU	4.37	13	iPd	50	06.44	-2.4
SYI	4.41	214	eP	50	07.20	-2.2
CDD	4.50	223	eP	50	08.39	-2.4
MCNL	4.54	228	eP	50	08.69	-2.6
IMA	4.54	328	P	50	09.30	-2.2
KDC	5.20	209	eP	50	16.50	-4.1
INK	8.41	39	P	51	04.00	-1.3
	1.0s		2.60nm			4.1mb
YKA	15.25	75	eP	52	30.00	-6.7
	0.5s		1.10nm			3.3mb
SRU	32.35	118	eP	55	27.72	-2.2
PEC	34.41	132	eP	55	45.93	-1.7
	0.8s		3.30nm			4.3mb
LTX	43.63	118	ePc	57	01.52	-2.8
	76 obs. assacioted					

% MAY 28, 1993 09h 52m 03.86± 2.39s
43.010 N ±16.5km 11.624 E ±11.8km
DEPTH = 5.0km (geophysicist)
CENTRAL ITALY (381)

CRE	0.66	21	P	52	16.80	-0.3
			eSg	52	25.80	
ASS	0.76	85	P	52	19.20	0.0
			eSg	52	30.00	
PGD	0.87	5	P	52	21.70	0.6
SFI	0.93	10	P	52	21.90	-0.1
			eSg	52	35.40	
BDI	1.29	325	P	52	28.10	-0.2
S.D. = 0.5 an 5 of 5 obs.						

% MAY 28, 1993 10h 08m 04.17± 0.75s
26.864 S ± 7.0km 26.731 E ± 6.6km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 3.0 (PRE).

BFS	0.06	125	eP	08	06.10	0.2
			S	08	06.60	
PRY	0.67	96	iPc	08	16.50	-1.0
			S	08	24.70	
KSR	1.01	9	eP	08	23.00	-0.8
			S	08	35.50	
SWZ	1.29	256	eP	08	29.30	0.6
			S	08	46.90	
SEK	1.66	152	iPd	08	35.20	1.1
			S	08	56.80	
SLR	1.79	51	iPd	08	37.40	1.3
			S	08	59.50	
BLF	2.29	192	eP	08	43.00	-0.3
			S	09	11.00	
FRS	3.13	203	iPc	08	54.00	-1.1
			S	09	30.00	
S.D. = 1.1 an 8 of 8 obs.						

MAY 28, 1993 10h 27m 31.80± 0.30s
40.419 N ± 3.7km 28.039 E ± 2.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 3.4 (ISK).

BNT	0.11	236	iPg	27	34.20	-0.5
EDC	0.15	242	ePg	27	36.00	0.6
			eSg	27	39.00	
KCT	0.30	125	iPg	27	38.20	0.2
KGT	0.56	274	iPg	27	42.70	-0.5
DST	0.93	151	iPg	27	50.00	0.4
			iSg	28	02.00	
ISK	1.01	50	iPg	27	51.10	0.2
			iSg	28	05.10	
ITU	1.01	47	ePg	27	51.00	0.1
			iSg	28	06.00	
YLV	1.03	81	iPg	27	51.60	0.3
			eSg	28	05.60	
GBZT	1.13	70	ePg	27	33.70	-19.3X
			iSg	27	41.80	
HRT	1.30	71	ePn	27	55.10	-0.9
DMK	1.42	351	iPn	27	57.80	0.2
EZN	1.44	246	iPn	27	58.00	0.1
ALN	1.59	288	eP	28	01.02	1.0
EYL	1.62	84	iPn	28	00.80	0.2
GPA	1.74	94	ePn	28	01.90	-0.4
ALT	2.10	130	ePn	28	07.20	-0.3
IZM	2.11	197	ePn	28	07.10	-0.5
KHL	2.39	151	ePn	28	12.00	0.3
OUR	3.10	270	eP	28	28.42	6.8X
PAIG	3.38	263	iP	28	46.66	21.1X
SRS	3.45	283	eP	28	40.26	13.6X
KNT	3.97	282	eP	28	33.38	-0.7
MLR	5.30	344	eP	28	55.00	2.0X
S.D. = 0.5 an 18 of 23 obs.						

MAY 28, 1993 10h 41m 43.49± 0.94s
38.070 N ± 8.4km 21.128 E ± 6.8km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 3.4 (ATH).

VLS	0.44	284	iPgd	41	51.20	-1.2
AGG	1.34	44	ePb	42	07.90	-0.3
			eSb	42	32.90	
IGT	1.59	337	ePn	42	13.28	1.6
KEK	1.94	328	ePg	42	21.20	4.4X
VLI	1.97	133	ePn	42	18.10	0.8
ATH	2.05	92	ePb	42	18.50	0.2
LIT	2.29	27	ePn	42	22.92	1.0
			eSn	42	58.40	
KZN	2.29	12	ePb	42	23.10	1.2
PAIG	2.72	46	ePn	42	26.52	-1.5
GRG	3.05	18	ePn	42	33.00	0.4
OHR	3.05	355	ePn	42	25.00	-7.6X
OUR	3.17	44	ePn	42	32.90	-1.4
SOH	3.24	31	ePn	42	34.96	-0.5
KNT	3.38	23	ePn	42	37.40	0.1
VAY	3.43	18	ePn	42	37.70	-0.4
S.D. = 1.1 an 13 of 15 obs.						

• MAY 28, 1993 10h 54m 12.15± 1.36s
51.066 N ±17.1km 15.893 E ± 7.3km
DEPTH = 10.0km (geophysicist)
POLAND (548)
MG 2.7 (WAR).

KSP	0.34	131	iPd	54	18.20	-0.9
	0.4s		47.00nm			
			iS	54	27.30	
BRG	1.25	262	iPg	54	34.40	-0.9
			iSg	54	54.50	
PRU	1.38	219	Pgd	54	38.80	1.4
	0.5s		31.30nm			
			eSn	54	56.20	
			eSg	55	02.30	
CLL	1.83	279	ePg	54	44.00	0.1
			iSg	55	09.00	
KHC	2.44	218	Pn	54	52.50	-0.3
	0.5s		5.00nm			
			Pg	54	58.50	
			e	55	04.50	
			Sn	55	26.00	
			Sg	55	36.50	
OJC	2.63	107	eP	54	55.90	0.6
			eS	55	29.80	
MOX	2.74	263	ePg	55	02.20	5.2X
			iSg	55	42.00	
ZST	2.98	164	eP	55	55.40	55.1X
SPC	3.37	122	eP	55	13.80	7.7X
			e	55	57.30	
S.D. = 1.1 an 6 of 9 obs.						

MAY 28, 1993 11h 06m 12.61± 0.16s
27.264 S ± 4.3km 66.474 E ± 3.7km
DEPTH = 10.0km (geophysicist)
5.5mb (73 obs.) 5.1Msz (17 obs.)
SOUTH INDIAN OCEAN (425)
Mw 5.6 (HRV).

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 50S, **C
Centroid Location:
Origin Time 11:06:20.2 0.2
Lat 27.53S 0.03 Lon 66.29E 0.04
Dep 15.0 FIX Half-duration 1.6
Moment Tensor; Scale 10**17 Nm
Mrr=-1.85 0.06 Mtt= 1.94 0.07
Mff=-0.10 0.09 Mrt= 2.63 0.20
Mrf= 0.70 0.16 Mtf= 0.39 0.06
Principal Axes:

	Val=	Plg=	Azm=
T	3.42	27	348
N	-0.16	2	257
P	-3.26	63	162

Best Double Couple:Mo=3.3*10**17
NP1:Strike= 84 Dip=18 Slip= -82
NP2: 256 72 -93

PAF	22.24	174	eP	11	20.00	9.1X
			eS	15	26.00	
CRZF	22.35	207	eP	11	21.00	9.0X
			eS	15	24.00	
MTD	33.88	281	iPd	13	13.50	15.6X
SLR	34.13	264	iPc	12	59.40	-0.6
	1.1s		110.00nm			5.7mb
Z	18s		7.45um			5.5Msz
SEK	34.29	259	iPd	13	01.20	-0.2
	1.1s		100.00nm			5.6mb
PRY	34.63	261	iPc	13	02.70	-1.6
	0.8s		60.00nm			5.5mb
GRM	34.82	250	iPc	13	02.70	-3.1X
	0.8s		33.58nm			5.3mb
BUL	35.28	273	iPd	13	09.30	-0.7
KSR	35.33	263	iPc	13	09.00	-1.4
	1.5s		120.00nm			5.5mb
BLF	35.44	257	iPd	13	11.00	-0.2
	1.0s		80.00nm			5.5mb
FRS	36.12	256	iPd	13	15.70	-1.0
	1.0s		150.00nm			5.8mb
LSZ	37.47	281	iPc	13	29.00	0.6
	0.3s		1.50nm			4.2mb X
			i	13	39.00	
NAI	38.43	307	iPc	13	39.50	2.9X
KOD	38.77	17	eP	13	40.00	0.5
SUR	39.71	251	iPc	13	46.80	-0.4
	1.5s		120.00nm			5.3mb
MAW	40.42	182	iPc	13	53.10	0.9
	1.0s		33.33nm			5.0mb
CER	40.91	250	iPc	13	56.50	-0.3
	1.5s		172.00nm			5.6mb
GBA	41.99	16	P	14	06.90	1.3
	0.9s		6.50nm			4.4mb X
LEM	43.99	70	iPc	14	23.00	0.8
WIN	44.80	265	iPc	14	28.00	-0.8
	1.0s		60.00nm			5.5mb
AAE	44.98	319	eP	14	32.50	2.1
HYB	45.93	16	eP	14	38.00	0.5
	1.0s		70.00nm			5.6mb
			e	14	47.00	
IPM	46.00	52	ePd	14	39.50	1.4
MEEK	46.20	102	eP	14	40.20	0.5
	0.8s		32.00nm			5.4mb
MBL	48.75	95	eP	14	59.70	0.0
NVL	53.09	200	iPd	15	32.00	0.0
	1.5s		87.00nm			5.5mb
			ePP	17	36.00	
			ePPP	18	45.00	
			e	20	35.00	
			eS	23	02.00	
			eSS	26	35.00	
			eSSS	28	32.00	
WARB	53.28	103	eP	15	26.50	-7.5X
	0.8s		15.00nm			5.0mb
NST	53.74	41	eP	15	37.50	0.2
CHTO	55.58	38	iPd	15	50.00	-0.8
	1.5s		57.43nm			5.4mb
BCAO	55.97	297	iPd	15	53.80	0.0
	1.0s		77.00nm			5.7mb
			id	16	03.10	
			id	16	51.90	
NDI	56.57	11	eP	15	51.50	-6.3X
			eS	23	50.00	
QUE	57.13	0	eP	16	02.90	1.0
DMN	57.42	20	P	16	03.20	-0.9
	0.6s		19.00nm			5.3mb
SNA	57.47	202	iPd	16	03.60	-0.1

		1.1s	72.00nm		5.6mb			1.2s	49.00nm		5.5mb		OGA	89.14	326	iPd	19	10.40	0.7
PKI		57.47	20 P	16	02.80	-1.8	LIC	76.60	284	P	18	06.00	0.5	WATA	89.19	326	iPd	19	09.60	-0.2
KKN		57.64	20 P	16	04.60	-1.0	TIC	76.80	285	P	18	07.20	0.6	GEC2	89.22	328	P	19	08.60	-1.2
		0.8s	39.00nm		5.5mb		AGG	77.77	326	eP	18	10.54	-0.9		1.2s		8.33nm		4.9mb	
GKN		57.65	19 P	16	04.80	-0.8	PAIG	77.82	328	eP	18	10.66	-1.0				e	19	14.80	
		1.0s	72.00nm		5.7mb		OUR	78.00	328	iP	18	11.62	-1.0				e	19	27.40	
GUN		57.94	20 P	16	07.00	-0.9	SSE	78.06	46	Pc	18	12.00	-1.2				e	22	46.80	
SHL		57.95	27 iP	16	07.60	-0.2		1.0s	11.00nm			4.9mb					e	22	53.00	
			eS	24	09.00			Z 20s	0.50um			4.8Msz		LMR	89.22	321	iPd	19	10.30	0.5
DRV		58.77	153 eP	16	24.00	11.2X				S	28	06.00			1.2s		27.35nm		5.4mb	
			S	24	20.00					PS	28	46.00		FRF	89.29	321	iPd	19	10.80	0.6
ASPA		60.32	103 iPd	16	22.70	-1.5	KDZ	78.38	330	eP	18	14.00	-0.8		1.2s		30.95nm		5.4mb	
		1.1s	78.80nm		5.8mb		LIT	78.52	327	eP	18	14.98	-0.6	SOTA	89.29	326	iPd	19	10.40	0.2
	Z	20s	0.90um		4.9Msz		JMB	78.53	331	eP	18	15.00	-0.5		1.1s		46.50nm		5.7mb	
ADE		61.12	117 iPd	16	29.00	-0.4	SOH	78.67	328	eP	18	15.22	-1.2				i	19	24.20	
KMI		62.73	37 Pd-	16	40.00	-0.5	RZN	78.73	329	iPd	18	16.00	-0.9	MOTA	89.43	326	iPd	19	10.90	0.0
		1.8s	70.00nm		5.5mb		PLD	79.07	330	eP	18	17.00	-1.5		1.1s		48.30nm		5.7mb	
	Z	20s	1.40um		5.1Msz		MMB	79.10	329	eP	18	17.00	-1.8				i	19	20.20	
			pP	16	50.00	32kmX	KNT	79.15	328	eP	18	18.18	-0.8				i	19	30.10	
SPA		62.89	180 iPd	16	40.00	-1.1	GRG	79.23	328	iP	18	18.94	-0.5	OSS	89.47	325	ePd	19	11.80	0.6
		0.9s	145.45nm		6.2mb		VAY	79.43	328	iP	18	20.00	-0.5	KHC	89.47	328	P	19	10.30	-0.6
	Z	25s	4.00um		5.5MszX		FNA	79.59	327	eP	18	21.30	-0.1		1.4s		25.70nm		5.3mb	
			i	35	53.00		PVL	79.68	331	eP	18	20.00	-1.7				e	19	28.00	
MAIO		63.56	354 iPd	16	45.00	-0 6	CFR	80.11	334	eP	18	24.00	0.0				e	22	49.00	
			eS	25	24.00		OHR	80.12	327	iP	18	23.20	-1.1	KSP	89.48	331	eP	19	09.80	-1.1
KER		63.97	342 eP	16	46.00	-2.4	BUC1	80.29	332	eP	18	28.00	3.0X				e	22	41.60	
MBH		64.27	330 iPd	16	50.90	0.5	SKO	80.47	328	iP	18	25.20	-0.9	PRU	89.64	329	iPd	19	11.90	0 3
STK		64.28	114 iPd	16	49.40	-1.1	ISR	80.72	333	eP	18	29.00	1.6		1.5s		55.30nm		5.6mb	
		0.9s	0.40nm		5.0mb		BRD	80.82	333	eP	18	30.00	2.2				ePP	22	49.90	
ASH		65.32	35 eP	16	54.50	-2 4	VRI	81.24	333	iPd	18	30.90	0.9	TMA	89.74	324	ePc	19	12.70	0.3
DSI		65.59	33 iPd	16	59.20	0.4	MLR	81.25	332	iPd	18	31.00	0.7	FUR	89.90	327	iPd	19	13.90	0.9
TOO		65.71	121 iPd	16	59.80	0 1	KIS	81.36	335	iPd-	18	30.00	-0.6		1.5s		244.00nm		6.2mb	
		1.2s	55.00nm		5.6mb			1.0s	300.00nm			6.3mb		MMK	90.18	324	ePc	19	15.20	0 6
HRI		66.91	332 iPd	17	07.80	0.5	BJI	81.37	36	eP	18	30.50	-0.3	LPG	90.47	323	iPd	19	15.70	-0.3
TAB		67.68	343 iP	17	13.00	0.8		1 8s	115.00nm			5.6mb			1.1s		12.70nm		5.1mb	
OLP		68.17	109 iPd	17	14.90	-0.5		Z 22s	0.62um			4.9Msz		LPL	90.49	323	iPd	19	15.70	-0.3
PLP		68.36	64 ePd	17	15.50	-1.2				ePP	21	38.00			1.0s		8.20nm		5.0mb	
BWA		68.93	119 iPd	17	21.30	1.2				eS	28	40.00		BRG	90.54	330	iP	19	16.40	0.6
GRS		69.02	343 iPd	17	20.80	0.3				eSS	33	56.00			1.8s		60.00nm		5.6mb	
		1.2s	70.00nm		5.7mb		CMP	81.45	332	ePd	18	36.00	4.8X				e	19	25.70	
			eS	26	26.00		CLI	81.58	334	iPc	18	29.00	-2.8X	ZLA	90.89	325	ePc	19	18.70	1.1
BAK		69.04	347 iPc	17	23.00	2.6X	ELT	82.00	12	iPd	18	34.50	0.8	GRF	90.97	328	iPd	19	18.40	0.6
			iS	26	19.00			1.5s	171.00nm			5.9mb			1.6s		67.00nm		5.7mb	
CAN		69.09	120 iPd	17	21.00	-0.1				e	28	50.00			Z 19s		0.20um		4.6Msz	
CNB		69.37	120 eP	17	23.20	0.4	ARU	83.60	356	iPd	18	42.60	0.7	SLE	91.03	325	ePc	19	18.80	0.7
CSS		69.37	331 eP	17	22.70	0.1		1.8s	200.00nm			6.0mb		CLL	91.27	330	iPd	19	19.80	0.7
SHE		69.55	346 iPc	17	24.50	1.0	SVE	83.89	357	iPd	18	44.50	1.1		1.8s		48.00nm		5.5mb	
		1.2s	100.00nm		5.8mb			1.9s	100.00nm			5.7mb		MOX	91.44	329	eP	19	20.70	0.8
			iS	26	32.00					eS	29	08.00			1.8s		62.00nm		5.7mb	
GAZ		69.75	335 iP	17	25.50	0.7				ePS	30	00.00					e	19	27.70	
PRZ		70.26	9 iPd	17	29.00	0.9	ZAK	83.90	23	iPd	18	43.60	0.0				eSKS	29	55.00	
		1.8s	200.00nm		5.9mb			2.0s	48.00nm			5.4mb		EHUE	91.51	312	eP	19	21.50	0.8
			eS	26	40.00					e	22	04.00		EGUA	91.61	311	eP	19	22.80	1.7
AAA		70.84	8 iP-	17	30.50	-0.9				eS	29	08.00		ECOG	91.86	311	eP	19	23.00	0.7
			eS	26	45.50		MOY	84.25	21	ePd	18	46.60	1.3	EVIA	91.91	313	iPc	19	23.30	0.8
MTA		71.49	343 eP	17	33.00	-2.2		1.7s	75.00nm			5.6mb		BSF	91.94	324	iPd	19	22.10	-0.4
MAK		72.10	345 eP	17	39.00	0.2	KUMJ	85.32	50	P	18	50.20	-0.9		0.9s		11.30nm		5.2mb	
	Z	16s	0.60um		5.0MszX		OBN	85.94	343	iPd	18	54.50	0.8	CDF	92.07	325	iPd	19	22.70	-0.3
	N	16s	0.50um					1.3s	80.00nm			5.7mb			1.2s		15.45nm		5.3mb	
	E	16s	0.50um							e	22	14.00		ELUO	92.48	311	eP	19	25.20	0.1
			ePPP	22	07.00					eS	29	16.00		MAT	92.60	50	eP	19	25.00	-0.6
			eS	27	03.00					e	29	28.00			1.8s		86.36nm		5.9mb	
			ePS	27	40.00					ePS	30	28.00					eS	30	12.00	
			eSS	31	44.00					eSS	35	08.00		EJIF	92.70	310	iPc	19	27.50	1.4
LZH		72.19	31 Pd	17	39.50	-0.3	MOS	86.26	344	iPd	18	56.00	0.7	CAF	92.73	320	iPd	19	26.80	0.8
		1.8s	99.00nm		5.6mb			1.6s	140.00nm			5.9mb			1.2s		16.65nm		5.3mb	
	Z	24s	0.78um		4.9MszX					e	22	13.00		SMF	92.77	322	iPd	19	26.10	-0.1
			pP	18	10.00	122kmX	SRO	86.35	330	eP	18	56.00	0.1		0.9s		3.60nm		4.8mb	
			sP	18	27.00					ePP	22	30.10		EPRU	92.81	310	eP	19	28.00	1.4
			i	18	46.00		SHNJ	86.45	49	P	18	56.40	-0.3	ETOR	92.83	315	eP	19	27.70	1.0
			PP	20	30.00		SPC	86.55	332	eP	18	56.60	-0.5	LBF	92.90	323	iPd	19	26.70	-0.1
			eS	26	59.00					ePP	22	33.20			1.1s		11.70nm		5.2mb	
CTA		72.30	104 iPc	17	41.00	0.3	SOP	87.05	329	eP	18	59.80	0.5	AVF	93.13	322	iPd	19	27.70	-0.1
		2.0s	147.06nm		5.7mb		ZST	87.18	329	iP	18	59.70	-0.2		1.0s		5.60nm		4.9mb	
			ic	17	50.00					ePP	22	32.80		LOR	93.14	323	iPd	19	28.00	0.1
GRO		72.82	344 eP	17	44.00	0.9	OJC	87.53	332	eP	19	01.80	0.2		1.0s		6.00nm		5.0mb	
		1.0s	160.00nm		6.1mb		MNK	87.56	338	eP	19	04.00	2.4		Z 21s		0.15um		4.4Msz	
ARMA		72.87	116 iPc	17	44.50	0.5	VKA	87.59	329	e(P)	19	00.00	-1.9	SSF	93.21	322	iPd	19	28.30	0.2
		0.9s	30.00nm		5.4mb		KBA	88.14	327	iPd	19	04.60	-0.2		1.3s		13.70nm		5.2mb	
PYA		74.12	343 iPd	17	51.00	0.3		1.5s	37.90nm			5.5mb		BOD	93.71	23	eP	19	28.20	-2.0
		1.0s	100.00nm		5.8mb					i	19	15.40			1.5s		20.00nm		5.3mb	
			i	18	01.00		TKSJ	88.36	50	P	19	05.80	-0.1	NUR	93.88	341	eP	19	31.20	0.3
KIV		74.15	342 eP	17	51.40	0.4	BHG	88.82	327	eP	19	07.70	-0.1	KAF	94.72	342	iP	19	34.70	-0.1
		1.5s	99.00nm		5.6mb		CIT	89.07	27	eP	19	09.00	0.0		0.9s		10.90nm		5.3mb	
			e	18	03.40		WTTA	89.11	326	iPd	19	09.50	0.0	NRI	97.66	8	iPd	19	47.80	-0.1
EYL		75.45	332 eP	17	50.00	-8.6X		1 3s	65.60nm			5.7mb					e	23	45.00	
KIC		76.42	285 P	18	05.00	0.5				i	19	18.50					e	30	23.00	

28d 11h

ILT	124.28	25	iPKPd	25	12.20	-0.2
	1.2s	21.00nm				
BRW	129.83	17	ePKP	25	23.02	0.1
MBC	130.87	2	ePKP	25	08.50	-16.3X
FPB	133.48	334	ePKP	25	29.50	-0.6
	1.0s	4.00nm				
IMA	133.91	21	ePKP	25	31.36	0.3
TTA	134.87	26	ePKP	25	32.60	-0.3
SVW	135.98	28	ePKP	25	35.62	0.6
SDN	136.14	37	PKP	25	50.00	14.6X
	Z 20s	2.38um			5.9Msz	
FBA	136.54	20	ePKP	25	33.63	-2.3
INK	137.22	11	ePKP	25	37.50	0.4
	1.0s	3.00nm				
PMR	138.27	25	ePKP	25	38.19	-1.0
	Z 20s	0.34um			5.1Msz	
PMS	138.32	25	ePKP	25	39.00	-0.5
	1.0s	20.70nm				
SLKM	138.52	27	ePKP	25	38.81	-1.0
HON	139.20	88	PKP	25	50.00	7.9X
	Z 20s	0.36um			5.1Msz	
CBM	139.48	311	PKP	25	50.00	8.1X
	Z 20s	0.38um			5.1Msz	
KLU	139.50	23	ePKP	25	41.78	0.2
BALM	141.05	22	ePKP	25	44.14	-0.3
JAO	141.63	324	ePKP	25	42.00	-3.6X
HRV	142.76	305	PKP	26	00.00	12.1X
	Z 19s	0.35um			5.1Msz	
RSNY	144.41	309	ePKP	25	48.96	-1.7
	Z 21s	0.26um			5.0Msz	
GAC	144.72	312	ePKP	25	50.50	-0.6
PAL	144.76	303	ePKP	25	49.53	-1.8
YKA	144.76	1	ePKP	25	48.90	-1.7
	1.1s	45.30nm				
PNJ	144.97	303	iPKP	25	50.86	-0.8
GMTN	144.99	303	iPKP	25	51.80	0.1
GPD	145.17	303	ePKP	25	51.18	-0.9
		e		26	02.43	
FCC	145.73	342	ePKP	25	58.50	6.1X
SIT	146.43	22	ePKP	25	55.14	1.6
EEO	146.72	315	ePKP	25	57.00	2.6X
WLVO	147.25	310	PKP	25	57.70	2.4X
STCO	148.01	309	PKP	25	59.90	3.3X
ACTO	148.49	310	PKP	26	11.26	13.9X
TYNO	148.53	309	PKP	26	11.32	13.9X
CEH	149.55	295	iPKP	26	04.06	4.8X
	Z 20s	0.30um			5.1Msz	
BLA	150.42	298	ePKP	26	06.40	5.8X
NAV	150.70	298	ePKP	26	06.17	5.2X
HBF	150.85	289	(PKP)	26	02.91	1.7
		ePKPbc		26	07.47	
SGS	150.95	290	ePKP	26	06.85	5.5X
JSC	151.49	292	ePKP	26	08.18	6.0X
PRM	152.42	292	ePKP	26	10.26	6.7X
ULM	153.37	334	ePKP	26	06.50	2.2
ULM	153.37	334	ePKPd	26	14.10	9.8X
GOGA	153.40	291	ePKP	26	12.80	7.9X
	Z 20s	0.44um			5.3Msz	
MYNC	153.74	295	PKP	26	20.00	14.6X
	Z 21s	0.33um			5.1Msz	
FVM	157.86	305	PKP	26	20.00	9.3X
	Z 19s	0.57um			5.4Msz	
NEW	158.85	7	ePKP	26	11.59	0.1
DPW	159.11	9	ePKP	26	11.57	-0.3
OLY	159.49	299	ePKP	26	13.10	0.6
		ePKPab		26	50.39	
MIAR	161.42	298	ePKP	26	14.69	0.1
	Z 21s	0.30um				
		iPKPab		26	59.78	
LRM	161.46	358	ePKP	26	15.40	0.8
		e		26	59.60	
RSSD	161.52	338	ePKP	26	14.32	-0.4
	Z 21s	0.46um				
		iPKPab		27	00.12	
BW06	164.19	349	ePKP	26	17.09	-0.3
LBFM	164.36	24	ePKP	26	18.41	0.8
		ePKPab		27	12.83	
ACO	164.61	311	iPKPd	26	18.10	0.4
WDC	164.77	27	PKP	26	30.00	12.3X
	Z 20s	0 40um				
DUG	167.09	358	ePKP	26	21.08	1.3
	Z 19s	0.40um				
		iPKPab		27	24.98	
MB	167.81	27	PKP	26	30.00	9.8X
	Z 21s	0.56um				
PU	167.92	349	ePKP	26	20.71	0.3
AO	168.39	33	PKP	26	30.00	9.5X

	Z 20s	0.38um				
BONR	168.61	19	ePKP	26	21.57	0.6
			ePKPab	27	31.93	
MSU	168.72	355	ePKP	26	22.21	1.2
			ePKPab	27	32.97	
TNP	168.77	15	ePKP	26	21.41	0.4
ARUT	169.51	360	ePKP	26	22.80	1.4
ALQ	170.24	323	ePKP	26	22.64	0.7
	Z 21s	0.07um				
BCH	170.31	34	(PKP)	26	23.33	1.5
			ePKPab	27	39.18	
ISA	170.62	26	PKP	26	30.00	8.1X
	Z 20s	0.37um				
GSC	171.51	18	ePKP	26	24.00	1.6
PEC	172.69	24	ePKP	26	25.40	2.6X
TUC	174.44	335	ePKP	26	23.95	0.4
	Z 20s	0.49um				
			ePKPab	27	57.83	
	S.D. = 0.9	on 198 of 238 obs.				

MAY 28, 1993 11h 19m 24.40± 0.54s
19.125 N ± 7.1km 63.276 W ± 5.1km
DEPTH = 33.0km (normal)
4.2mb (4 obs.)
LEEWARD ISLANDS (92)

LPR	2.59	252	P	20	05.00	0.1
MGH	2.60	157	eP	20	07.50	2.5
CPD	2.73	247	P	20	07.80	1.0
CLLP	3.30	252	P	20	15.00	0.1
APR	3.34	259	P	20	15.40	-0.1
PORP	3.36	252	P	20	16.00	0.1
PAG	3.43	153	eP	20	17.30	0.3
LRS	3.48	257	P	20	17.00	-0.6
DEG	3.50	143	eP	20	17.00	-1.0
MGG	3.70	149	eP	20	20.60	0.0
MGP	3.78	254	P	20	22.00	0.2
MDN	4.19	154	eP	21	27.07	59.5X
SLB	5.69	158	eP	20	48.22	-0.7
GRW	7.10	167	eP	21	16.44	7.7X
TPP	8.93	168	eP	21	29.76	-4.4X
SIV	34.96	176	P	26	13.60	-2.1
LPB	35.75	188	P	26	31.20	8.4X
CNCB	36.01	188	P	26	24.00	-1.2
CCH	36.39	185	eP	26	29.00	0.9
PPD	42.54	163	eP	27	19.00	0.2
FCC	45.48	338	eP	27	48.00	5.9X
EPF	58.03	51	iPd	29	16.40	-0.2
	1.1s	12.20nm			4.9mb	
MBC	63.74	347	eP	30	05.50	10.7X
	1.0s	3.00nm				
INK	65.09	337	eP	30	03.50	-0.1
	1.0s	3.00nm			4 3mb	
NB2	65.95	31	P	30	09.20	-0.1
	0.7s	1.20nm			4 1mb	
GEC2	67.34	44	P	30	19.50	1.0
	0.7s	1.09nm			4.1mb	
		e		30	22.30	
	S.D. = 1.0	on 20 of 26 obs.				

? MAY 28, 1993 11h 27m 18.68± 5.70s
42.718 N ±50.0km 23.950 E ±11.4km
DEPTH = 10.0km (geophysicist)
BULGARIA (359)

SRS	1.62	190	ePb	27	47.80	0.4
			eSb	28	11.00	
VAY	1.73	217	ePn	27	49.60	0.6
KNT	1.74	207	ePn	27	49.08	-0.1
			eSn	28	13.10	
SOH	1.95	193	ePn	27	51.90	-0.2
GRG	2.11	214	ePn	27	53.80	-0.6
OUR	2.38	179	ePn	27	58.30	0.0
ALN	2.40	139	ePn	27	58.60	0.0
	S.D. = 0.5	on 7 of 7 obs.				

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* MAY 28, 1993 11h 33m 57.93± 2.02s
41.826 N ±15.9km 22.619 E ±13.1km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 2.1 (SKO).

VAY	0.51	184	iPg	34	08.30	0.1
			iSg	34	13.60	
KNT	0.70	162	iP	34	13.18	1.5
GRG	0.88	191	eP	34	13.82	-1.1
SKO	0.89	280	ePn	34	15.20	0.2
SRS	1.02	134	eP	34	16.50	-0.7
SOH	1.15	151	eP	34	22.02	2.6X
OUR	1.81	145	eP	34	19.70	-9.7X
AGG	2.81	185	eP	34	47.46	3.7X
	S.D. = 1.4	on 5 of 8 obs.				

? MAY 28, 1993 11h 53m 47.60± 0.96s
39.542 N ±10.3km 29.408 E ± 9.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

DST	0.61	276	ePg	54	00.00	0.1
			eSg	54	11.00	
ALT	0.73	132	ePn	54	02.00	0.0
YLV	1.02	359	iPn	54	07.10	0.1
KCT	1.07	311	iPn	54	07.60	-0.2
	S.D. = 0.3	on 4 of 4 obs.				

MAY 28, 1993 12h 18m 35.14± 0.51s
42.577 N ± 5.3km 24.088 E ± 7.2km
DEPTH = 10.0km (geophysicist)
BULGARIA (359)

SRS	1.50	194	ePb	19	01.80	-0.4
			eSb	19	23.88	
KNT	1.67	213	ePb	19	04.50	-0.1
			eSb	19	27.16	
VAY	1.69	223	iPn	19	04.00	-0.8
SOH	1.84	198	ePb	19	07.50	0.5
			eSb	19	32.92	
GRG	2.05	219	ePn	19	10.60	0.5
			eSn	19	38.80	
SKO	2.06	254	ePn	19	10.50	0.3
			iSg	19	40.00	
ALN	2.23	138	iPn	19	12.84	0.2
			eSn	19	42.70	
OUR	2.24	182	iPn	19	12.76	-0.1
PAIG	2.66	187	ePn	19	18.80	-0.1
			eSn	19	54.10	
MLR	3.21	24	eP	19	27.00	0.4
VRI	3.80	29	iPd	19	34.50	-0.5
	S.D. = 0.5	on 11 of 11 obs.				

MAY 28, 1993 13h 12m 09.90± 0.65s
39.481 N ± 5.4km 23.415 E ± 6.1km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
ML 3.2 (ATH).

PAIG	0.49	25	ePg	12	19.20	-0.6
			eSg	12	25.50	
LIT	0.94	311	iPg	12	27.53	-0.4
			eSg	12	39.30	
AGG	0.96	242	ePg	12	27.56	-0.6
			eSg	12	41.40	
OUR	0.96	27	ePg	12	27.70	-0.4
			eSg	12	40.90	
THE	1.20	343	ePg	12	31.50	-0.7
SOH	1.34	358	ePb	12	34.10	-0.5
			eSb	12	52.30	
KZN	1.51	304	ePn	12	40.60	3.5X
ATH	1.52	171	ePb	12	37.60	0.4
SRS	1.64	5	ePb	12	39.00	0.1
GRG	1.67	333	ePb	12	39.30	0.0
KNT	1.73	347	ePb	12	40.56	0.4
VAY	1.95	341	iPn	12	45.30	2.0
MMB	2.12	6	eP	12	40.00	-5.9X
EZN	2.27	80	iPn	12	47.00	-1.0
KKB	2.40	354	iP	12	45.00	-4.8X
RZN	2.42	24	eP	12	44.00	-6 3X
ALN	2.46	54	ePn	12	52.00	1 3
KDZ	2.65	34	eP	12	49.00	-4.4X
VLI	2.78	188	ePb	13	01.00	5.7X
VTS	3.11	357	eP	13	04.00	4.0X
PGB	3.12	10	eP	13	03.00	2.9X
	S.D. = 0.9	on 13 of 21 obs.				

% MAY 28, 1993 13h 50m 05.65± 0.77s
27.913 S ± 6.8km 26.738 E ±10.0km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.2 (PRE).

SEK	0.88	118	iPd	50	23.30	0.1
			S	50	30.50	
PRY	1.18	34	eP	50	28.00	-0.2

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                    S      50 43.00
BLF      1.29 202 eP       50 30.00   -0.1
                    S      50 48.00
KSR      2.04   4 eP       50 41.50    0.2
                    S      51 09.00
FRS      2.21 214 eP       50 43.50    0.0
                    S      51 10.00
     S.D. = 0.2   on   5 of   5 obs.
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*  MAY  28, 1993  14h 20m 28.62± 0.87s
   26.795 N ±15.2km   93.301 E ± 8.6km
   DEPTH =  33.0km  (normal)
   4.6mb (  3 obs.)
 NORTHEASTERN INDIA                (317)

SHL      1.77 226 iPn      20 57.50    0.0
                   eS      21 19.50
GUN      6.69 281 P        22 07.60    0.1
PKI      7.07 278 P        22 12.80    0.0
KKN      7.21 280 P        22 14.20   -0.4
DMN      7.34 278 P        22 17.00    0.5
GKN      7.79 281 P        22 22.80    0.0
WRA     61.17 135 P        30 43.00    0.5
      0.5s      0.90nm           4.2mb
WB2     61.18 135 eP       30 42.20   -0.4
      0.7s      3.50nm           4.6mb
BCAO    74.42 267 iPd      32 05.40   -0.3
      0.6s      6.00nm           4.8mb
     S.D. = 0.4   on   9 of   9 obs.
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*  MAY  28, 1993  15h 03m 39.55± 0.78s
   28.534 S ± 9.6km  122.098 E ± 7.9km
   DEPTH =  10.0km  (geophysicist)
 WESTERN AUSTRALIA                 (590)

MEEK     3.62 301 eP       04 38.00    1.1
      0.2s     46.00nm
WARB     4.67  61 iPd      04 51.90    0.1
      0.2s     22.00nm
                   eS      05 46.00
RKG      7.42 215 eP       05 30.00   -0.5
      0.2s      2.00nm           5.0mb X
                   eS      06 49.00
MBL      7.62 344 eP       05 32.30   -1.0
      0 2s      6.00nm           5.4mb X
                   eS      06 53.00
ASPA    11.66  68 eP       06 23.60   -5.4X
      0.7s     29.00nm           5.7mb X
                   ePg     06 32.80
                   eS      08 34.90
WB2     14.06  55 iPc      07 01.20    0.1
                   eS      09 27.80
STK     17.18 106 eP       07 41.40    0.2
                   eS      10 48.20
     S.D. = 0.9   on   6 of   7 obs.
-----------------------------------------
   MAY  28, 1993  15h 55m 27.77± 0.14s
   55.862 N ± 2.3km  155.171 W ± 2.0km
   DEPTH =  33.0km  (normal)
   5.0mb ( 83 obs.)  5.0Msz ( 30 obs.)
 SOUTH OF ALASKA                   ( 17)
      Mw 5.5 (HRV).
      CENTROID, MOMENT TENSOR      (HRV)
      Data Used: GDSN
      L.P.B.: 34S, 61C
      Centroid Location:
      Origin Time          15:55:29.0 0 4
      Lat 55.39N 0.06 Lon 154.93W 0.07
      Dep  15 0 BDY Half-duration   1.4
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 0.48 0.04   Mtt=-0.54 0.05
        Mff= 0.06 0.04   Mrt= 1.61 0.11
        Mrf= 1.39 0.08   Mtf=-0.32 0.04
       Principal Axes:
        T  Val=  2.14   Plg=52   Azm=312
        N        0.13      6         50
        P       -2.27     38        145
      Best Double Couple:Mo=2.2*10**17
       NP1:Strike=272 Dip=10 Slip= 132
       NP2:          49     83        84

KDC      2.40  37 ePc      56 04.52   -1.0
                   eS      56 49.58
SDN      3.07 262 eP       56 13.27   -1.7
SYI      3.14  28 eP       56 16.18    0.1
CDD      3.19  14 eP       56 17.60    0.9
MCNL     3.36   7 eP       56 19.91    0.7

AUI      3.61  14 eP       56 23.56    0.9
                   eS      57 09.29
AUH      3.63  14 eP       56 24.15    1.0
AUP      3.63  14 eP       56 24.46    1.3
AUE      3.64  15 eP       56 23.53    0.4
AUL      3.65  14 eP       56 24.48    1.2
PDB      3.97   7 iP       56 28.32    0.5
                   eS      57 18.48
XLV      4.05  26 eP       56 28.83   -0.2
CNPM     4.24  28 iP       56 31.15   -0.5
INW      4.36  14 iP       56 33.60    0.2
INE      4.36  14 eP       56 33.72    0.2
ILIM     4.39  15 eP       56 34.90    1.0
BRLK     4.53  29 eP       56 34.68   -1.2
                   eS      57 26.16
RSO      4.79  15 eP       56 39.47   -0.1
RDW      4.80  14 eP       56 39.55   -0.2
NCT      4.86  13 eP       56 40.50    0.0
DFR      4.92  14 eP       56 41.15   -0.3
SEW      5.23  33 eP       56 42.83   -2.8X
SVW      5.27 358 eP       56 45.69   -0.6
SLKM     5.34  27 eP       56 45.31   -2.0
MPA      5.56  31 eP       56 48.05   -2.3
SPU      5.58  16 eP       56 49.66   -1.0
CGLM     5.71  16 eP       56 51.39   -1.1
MID      5.94  49 eP       56 53.90   -1.7
PTE      5.97  30 eP       56 53.35   -2.7X
SUA      6.07  21 eP       56 55.98   -1.7
PMS      6.14  26 ePc      56 56.30   -2.3X
SKT      6.42  16 eP       57 01.45   -1.0
PWA      6.42  23 eP       57 01.24   -1.2
HIN      6.46  42 eP       56 59.26   -3.8X
PLRM     6.55  26 eP       57 01.63   -2.6X
PMR      6.55  26 eP       57 00.93   -3.3X
GHO      6.75  26 eP       57 05.46   -1.7
CVA      6.84  43 eP       57 04.52   -3.8X
SML      6.94  28 eP       57 07.21   -2.5X
VLZ      7.02  38 eP       57 07.33   -3.5X
                   eS      58 27.23
SGAM     7.02  44 eP       57 07.09   -3.8X
TTA      7.10 357 eP       57 10.85   -1.2
SCM      7.24  31 eP       57 11.46   -2.5X
HMT      7.31  48 eP       57 11.62   -3.3X
KLU      7.42  37 eP       57 13.60   -2.9X
TRF      8.00  16 eP       57 23.06   -1.7
GLB      8.14  42 eP       57 23.09   -3.5X
SDG      8.30  32 eP       57 26.51   -2.3X
BALM     8.49  47 eP       57 27.46   -3.9X
PAX      8.67  31 eP       57 31.12   -2.8X
WRH      9.32  19 eP       57 39.34   -3.5X
CCB      9.53  19 eP       57 42.03   -3.7X
FBA      9.77  19 eP       57 45.39   -3.5X
GLM      9.92  20 eP       57 47.89   -3.2X
IMA     10.27   3 ePc      57 53.38   -2.5X
      1.0s     10.95nm          5.1mb
SIT     11.04  76 (P)      58 00.33   -6.0X
ADK     13.29 262 eP       58 32.12   -4.2X
      0.8s     47.85nm          5.5mb
BRW     15.52 358 eP       59 02.57   -2.8X
INK     15.94  30 ePc      59 11.80    1.0
      1.0s     80.00nm          4.8mb
ILT     16.24 327 iPc+     59 14.00   -0.6
      1.4s     46.00nm          4.4mb
        Z  14s     52.00um          5.0Msz
        N  14s     18.00um
        E  14s     24.00um
SMY     18.13 273 eP       59 37.90   -0.3
      0.9s    140.40nm          5.1mb
MCW     20.91  96 eP       00 08.89   -0.6
CMW     21.44  96 P        00 14.89   -0.1
YKA     21.51  55 eP       00 27.80   12.4X
      1.0s     53.20nm
GMW     21.56  99 eP       00 16.08    0.0
                   e       00 23.79
JCW     21.67  97 P        00 17.00   -0.2
CPW     21.69 101 P        00 17.35   -0.1
RPW     21.77  96 P        00 17.63   -0.6
BMW     21.94 102 eP       00 19.49   -0.5
KMOR    22.31 104 P        00 23.60   -0.1
LMW     22.34 100 P        00 24.43    0.4
TKO     22.50 104 P        00 25.66    0.1
LON     22.56 100 eP       00 26.15    0.0
FL2     22.59 101 P        00 27.28    0.8
NLW     22.63  95 P        00 27.19    0.3
SHW     22.66 101 (P)      00 26 81   -0.3
WPW     22.74 100 P        00 29.37    1.5
MTMW    22.77 102 P        00 28.79    0.5

TWW     22.86  98 P        00 30.39    1.3
ETW     22.90  96 P        00 29.78    0.3
ASR     23.04 101 P        00 31.15    0.3
WTV     23.05  96 P        00 30.75   -0.2
EBG     23.16  98 P        00 32.60    0.7
SSOR    23.37 104 P        00 35.11    1.1
MXC     23.51  99 P        00 36.75    1.5
VBEM    23.72 103 P        00 38.28    0.8
WAH2    23.81  97 P        00 38.67    0.5
VGB     23.88 101 eP       00 39.43    0.5
OD2     23.92  95 P        00 39.80    0.5
DPW     23.94  94 eP       00 38.89   -0.6
                   e       00 46.64
RSW     24.01  98 P        00 40.97    0.7
CROR    24.10 102 P        00 41.87    0.8
MBC     24.31  20 ePc      00 44.50    1 8
      1.0s     63.00nm          5.1mb
NEW     24.34  92 eP       00 43.77    0.4
      1.0s     53.75nm          5.1mb
                   e       00 51.84
VIPM    24.60 103 P        00 46.45    0.4
LNOR    25.05  98 P        00 50.53    0.3
LBFM    26.05 110 ePd      00 59.95    0.2
                   e       01 08.46
                   e       01 08.68
WDC     26.26 112 eP       01 01.04   -0.4
      1.4s     22.64nm          4.6mb
        Z  22s     4.18um           4.9Msz
PET     26.62 283 eP       01 04.00   -0.6
      0.8s     90.00nm          5.4mb
                   e       01 46.00
                   eS      05 40.00
                   eSS     06 56.00
ORV     27.55 112 (P)      01 13.37    0.1
MGD     28.27 301 eP       01 20.00    0.4
        Z  17s     4.30um           5.1MszX
        E  17s     3.40um
                   e       01 30.00
                   eS      06 10.00
                   eSS     07 20.00
LRM     28.35  93 eP       01 19.00   -1.8
CMB     29.26 113 P        01 40.00   11.2X
        Z  20s     3.78um           5.0Msz
SAO     29.69 116 P        01 40.00    7.5X
        Z  19s     2.47um           4.8Msz
KVN     29.72 109 (P)      01 32.94   -0.1
BONR    30.41 110 eP       01 38.85   -0.5
                   e       01 47.01
TNP     30.90 109 eP       01 42.85   -0.6
      1.2s     12.39nm          4.6mb
                   e       01 49.98
BCH     31.61 116 eP       01 49.29   -0.3
                   e       01 57.49
DUG     31.78 102 eP       01 50.94   -0.2
      0.6s     4.11nm           4.5mb
        Z  20s     0.92um           4.4Msz
BW06    31.87  95 eP       01 50.82   -1.2
      0.9s     6.22nm           4.5mb
                   e       01 58.48
ISA     32.06 114 P        02 00.00    6.5X
        Z  20s     1.32um           4.6Msz
FCC     32.12  59 eP       02 00.00    6.4X
TPNV    32.25 109 eP       01 54.84   -0.4
      0.9s     29.86nm          5.2mb
                   e       02 02.99
GSC     33.21 112 eP       02 02.61   -0.9
RSSD    34.13  88 eP       02 11.16   -0.4
      1.1s     28.42nm          5.1mb
        Z  22s     2.40um           4.9Msz
                   i       02 19.09
TIK     34.24 327 iPc      02 11.00   -0.9
      1.0s     81.00nm          5.6mb
        Z  13s     6.00um           5.5MszX
                   e       03 30.00
                   i       04 46.00
                   eS      07 40.00
                   i       12 33.00
HON     34.55 185 P        02 20.00    4.9X
        Z  19s     1.07um           4.6Msz
PLM     34.69 114 eP       02 15.67   -0.8
                   e       02 22.39
ULM     35.11  74 eP       02 23.00    3.4X
KUR     36.72 278 eP       02 31.00   -2.2
      1.0s    190.00nm          5.9mb
YAK     37.19 311 iPc      02 36.20   -0.8
      0.9s    255.00nm          6.1mb X
        Z  17s     4.20um           5.3MszX
```

28d 16h

	N	15s	2.60um						N	14s	2.56um						BRG	73.25	7 iPc	06 57.10	0.2
	E	16s	3.60um						E	14s	1.82um							1.4s	17.00nm	4.9mb
			ePPP	04 05.00							e	06 00.50							e	07 05.00	
			e	12 49.00							eS	12 50.00					MOX	73.29	9 ePc	06 57.70	0.5
YSS		38.49 284 ePc	02 42.80	-5.3X		SDF	57 03 359 iP	05 12.10	0.0									1.3s	21.00nm	5.0mb
	Z	20s	2.20um	5.0Msz		BJI	57.36 294 eP	05 13.50	-1.2									Z 19s	0.60um	4.9Msz
	E	20s	1.10um				1.0s	22.00nm	5.2mb										eS	16 40.00	
			(PPP)	04 35.00			Z 20s	1.80um	5.2Msz								KSP	73.43	6 ePc	06 58.40	0.5
			eS	08 42.00			E 13s	1.34um											e	07 05.20	
			eSSS	11 46.00				ePP	07 24.00								FLN	73.62	17 eP	06 59.00	-0.1
TUC		38.69 109 ePc	02 50.60	0.5				eS	13 12.00									Z 21s	2.30um	5.4Msz
		1.0s	7.48nm	4.4mb		ELT	60.12 323 iPc	05 33.70	0.0								LDF	73.84	17 iPc	07 00.40	0.0
	Z	20s	0.75um	4.5Msz			Z 15s	1.70um	5.3MszX										0.9s	9.00nm	4.8mb
			e	02 57.96				eS	13 50.00								GRR	73.92	17 iPc	07 01.00	0.2
ALO		39.06 102 P	03 00.00	6.8X		SSE	61.44 284 Pd	05 42.50	-0.5										1.2s	18.45nm	5.0mb
	Z	19s	1.20um	4.7Msz			1.2s	21.00nm	5 1mb								PRU	74.17	7 eP	07 02.60	0.3
KUSJ		39.82 277 eP	02 57.20	-2.0			Z 20s	1.30um	5 1Msz									Z 14s	0.50um	5.0MszX
ASAJ		40.32 280 eP	03 03.80	0.5				S	14 08.00									N 10s	0.30um	
FRB		41.02 43 eP	03 08.50	-0.2				sS	14 22.00									E 15s	0.40um	
FRB		41.02 43 ePc	03 20.00	11.3X		GUMO	62.15 252 eP	05 39.10	-8.8X										e	07 16.50	
		1.0s	37.00nm					e	06 05.10								GRF	74.21	9 iPc	07 03.30	0.8
HOOJ		41.08 278 eP	03 08.90	-0.7				eS	14 05.10									1.2s	11.00nm	4.7mb
ACO		41.87 93 iPd	03 15.80	-0.4		KAF	62.36 359 iP	05 48.30	-0.4									Z 20s	0.40um	4.7Msz
MRRJ		42.29 279 P	03 19.00	-0.5			0.4s	5.80nm	5.1mb								LPF	74.23	18 iPc	07 03.00	0.4
JAO		43.43 58 eP	03 27.50	-1.2		NB2	62.95 7 P	05 52.40	-0.3										1.0s	12.20nm	4.9mb
			pP	03 35.50	27kmX		0.9s	21.10nm	5.3mb								KHC	74.96	B P	07 07.90	1.0
OFUJ		44.22 275 P	03 34.80	-0.4		NUR	63.97 0 eP	05 59.10	-0.3										1.0s	7.00nm	4.6mb
DAG		44.79 13 iPd	03 39.40	0.0		SVE	64.00 339 iPc	05 59.50	-0.2									Z 18s	0.70um	5.0Msz
		1.1s	49.37nm	5.3mb			1.9s	60.00nm	5.4mb									N 18s	0.60um	
LTX		44.85 104 eP	03 38.41	-2.1			Z 19s	1.50um	5.2Msz									E 18s	0.20um	
			e	03 46.43			N 19s	1.00um											e	07 14.00	
KBS		45.25 3 eP	03 45.00	2.0			E 19s	0.40um											e	07 24.00	
YAMJ		45.77 276 eP	03 47.60	0.0				eS	14 31.00										e	07 44.50	
FVM		45.87 85 eP	03 48.22	-0.2		HFS	64.01 6 eP	05 58.70	-1.0										e	07 55.60	
		1.0s	21.40nm	5.0mb			1.0s	35.30nm	5.4mb										e	08 39.00	
	Z	19s	5.16um	5.5Msz			Z 17s	0.57um	4.8MszX										e	17 04.00	
			e	03 55.08				LR	30 39.00								CDF	75.06	12 iPc	07 07.90	0.3
BOD		46 01 312 iPc	03 48.90	-0.3		UPP	64.49 4 iP	06 02.30	-0.4										0.9s	6.70nm	4.6mb
		0.9s	94.00nm	5.7mb		PUL	64.64 357 ePc	06 03.00	-0.7								GEC2	75.25	8 Pc	07 09.10	0.4
UYO		46 34 92 iPc	03 51.10	-1.0			1.0s	120.00nm	5.9mb										0.9s	4 03nm	4.4mb
MIAR		46.56 90 ePc	03 53.31	-0.6				e	06 11.00										e	07 13.00	
		0.8s	11.00nm	4.9mb				eS	14 46.00										e	07 21.90	
	Z	19s	0 94um	4.8Msz				ePS	15 00.00										e	07 25.20	
			e	04 00.34		ARU	64.79 340 iPc	06 04.20	-0.6										e	07 33.40	
NRI		46.94 334 iPc	03 56.90	0.5			1.0s	60.00nm	5 6mb								SPC	75.25	3 eP	07 10.20	1.5
		1.0s	78.00nm	5.7mb			Z 16s	1.50um	5.3MszX								HAU	75.35	13 iPc	07 09.30	0.1
			e	04 04.00			N 16s	1.00um											1.0s	13 80nm	4.9mb
			e	05 52.00			E 18s	1.50um										Z 21s	0 95um	5.1Msz
			eS	11 03.00				e	06 12.00								BSF	75.58	12 iPc	07 10.70	0.2
NIIJ		47.01 275 P	03 57.20	-0.2				e	06 41.00										1.1s	9.50nm	4.7mb
CHJJ		47.86 274 P	04 04.00	-0.1				eS	14 57.00								LOR	75.74	15 iPc	07 11.60	0.2
MAT		47.95 275 iPc	04 04.20	-0.6		LZH	66.59 300 iPc	06 16.20	-0.6										0.9s	8.20nm	4.7mb
		1.1s	26 58nm	5.2mb			1.4s	76.00nm	5.6mb									Z 21s	0.90um	5.1Msz
	Z	20s	1 42um	4.9Msz			Z 18s	2.71um	5.5Msz								MFF	75.77	17 iPc	07 11.90	0.4
			eS	11 00.00			N 12s	1.93um											1.1s	21.50nm	5.1mb
MTMJ		48.14 276 eP	04 05.90	-0.6				pP	06 43.70	110kmX							SSF	75.90	15 iPc	07 12.60	0.4
GAC		48.71 67 eP	04 17.50	7.0X				sP	06 57.50										1.1s	20.50nm	5.0mb
TSRJ		49.92 276 eP	04 19.70	-0.3				PP	08 47.00								KMI	76.01	294 eP	07 13.00	-0.5
RSNY		49.99 67 (P)	04 18.65	-1.8				eS	15 08.00										1.5s	70.00nm	5.4mb
		0.9s	9.34nm	4.8mb		EKA	66.84 17 Pc	06 17.70	-0.2									Z 18s	2.10um	5.5Msz
	Z	21s	1.93um	5.1Msz			0.9s	14.30nm	5 1mb									N 14s	1.10um	
CIT		50.08 306 eP	04 21.00	-0.1		MUD	67.32 9 eP	06 17.00	-3.8X										eS	17 02.00	
MCWV		50.56 75 P	04 30.00	5.2X			0.9s	13.00nm	5.0mb								LBF	76.04	15 iPc	07 13.00	-0.1
	Z	19s	3.49um	5.4Msz		MOS	68.27 352 eP	06 27.00	0.2										1.0s	8.40nm	4.7mb
WHYJ		51.10 275 P	04 28.70	-0.3				e	06 32.00								ZST	76.11	5 eP	07 13.70	0 3
CBM		51.58 61 eP	04 29.74	-2.8				e	06 41.00								AVF	76.14	15 iPc	07 13.70	0.1
		1.0s	22 56nm	5.1mb		OBN	68.98 353 iPc	06 30.80	-0.4										0.9s	7.70nm	4.7mb
	Z	21s	2.63um	5.2Msz			1.0s	42.00nm	5.5mb								BGF	76.29	15 iPc	07 14.50	0 0
			e	04 37.98				e	06 38.00										1.0s	17.60nm	5.0mb
YONJ		51.58 278 P	04 32.20	-0.5				e	06 46.00								SMF	76.35	15 iPc	07 14.80	0.0
BNH		51.64 65 (P)	04 33.08	0.1				(S)	15 34.00										1.0s	13.40nm	4.9mb
TYSJ		52.14 276 P	04 36.90	0.0				ePS	15 53.00								LSF	76.39	16 iPc	07 15.10	0 1
GOGA		53.08 83 P	04 50.00	6.1X				ePPS	16 16.00										0.9s	14.10nm	5.0mb
	Z	19s	2.50um	5.3Msz				e	16 31.00								TCF	76.46	16 iPc	07 15.60	0.2
EMM		53.44 62 eP	04 43.86	-2.5		MNK	70.58 358 eP	06 38.00	-2.9										1.0s	8.80nm	4.7mb
			e	04 51.92		AAA	71.87 323 eP	06 50.00	1.0								SRO	76.55	5 eP	07 16.30	0.5
SHNJ		53.68 279 eP	04 47.80	-0.4			Z 14s	3.50um	5.8MszX								WATA	76.57	9 iPc	07 16.60	0.4
CEH		53.69 78 P	05 00.00	11.8X			N 14s	3.90um											i	07 34.20	
	Z	19s	1.67um	5.1Msz			E 14s	1.50um									MAF	76.58	16 iPc	07 16.40	0.3
LMN		53.97 60 eP	04 51.50	1.2		PRZ	72.05 321 iPc	06 51.50	1.2										1.0s	10.60nm	4.8mb
PEV		54.68 359 iP	04 55.00	-0.1			1.0s	40.00nm	5.4mb								WTTA	76.65	9 iPc	07 17.10	0.4
		0.8s	29.30nm	5.4mb		ENN	72.58 12 eP	06 47.00	-6.0X										1.0s	11.30nm	4.8mb
SUMJ		55.02 278 P	04 57.80	-0.3			0.5s	2.80nm	4.5mb											i	07 23.30	
MOY		55.78 313 eP	05 04.00	0.7		SNF	72.63 14 P	07 01.70	8.4X											i	07 27.80	
ZAK		55.79 311 iPc	05 03.80	0.4		CLL	72.75 8 eP	06 54.00	0.0								SOTA	76.65	9 iPc	07 17.20	0.6
		1.0s	28.00nm	5.2mb				e	07 41.00											i	07 25.10	
	Z	13s	3.92um	5.7MszX		DOU	73.07 13 P	06 57.20	1.3								KBA	76.98	8 iPc	07 19.50	1.0

	1.1s	26.10nm			5.2mb
		i	07	27	10
		i	07	34	.60
		i	08	07	.40
RJF	77.31	17 iPc	07	20	.20
	1.0s	14.40nm			5.0mb
Z	20s	1.50um			5.3Msz
KIS	77.44	357 iPc+	07	20	.00
	1.1s	30.00nm			5.2mb
		e	07	32	.00
		eS	17	42	.00
LFF	77.53	17 iPc	07	21	.90
	0.9s	19.00nm			5.1mb
CAF	77.76	16 iPc	07	23	.10
	0.9s	6.70nm			4.7mb
LPL	77.85	13 iPc	07	24	.70
	1.0s	7.60nm			4.7mb
LPO	77.86	17 iPc	07	23	.50
	0.9s	10.00nm			4.8mb
LPG	77.87	13 iPc	07	24	.90
	1.1s	7.55nm			4.6mb
CVO	78.68	359 eP	07	25	.50
MLR	79.01	359 eP	07	31	.50
PYA	79.29	347 eP	07	32	.00
	1.0s	50.00nm			5.5mb
EPF	79.32	18 iPc	07	31	.00
	1.3s	14.80nm			4.8mb
KIV	79.41	347 iPc	07	33	.00
	1.0s	67 00nm			5.6mb
		e	07	40	.20
		e	07	48	.90
GPO	79.59	345 eP	07	34	.50
	1.0s	110.00nm			5.8mb
MTA	81.34	345 iPc	07	43	.00
	0.8s	70.00nm			5.7mb
		e	17	55	.00
GUN	81.77	309 P	07	45	.30
KKN	82 14	309 P	07	47	.00
	0.9s	62.00nm			5.6mb
GKN	82.24	310 P	07	47	.60
PKI	82 28	309 P	07	47	.70
	1.0s	72.00nm			5.7mb
ASH	82.29	334 eP	07	46	.60
DMN	82.38	309 P	07	48	.40
SKO	82.50	3 iP	07	49	.20
VAY	83.17	2 eP	07	52	.50
CHTO	83 19	293 ePc	07	51	.20
	1.1s	12.07nm			4.9mb
GRS	83.26	343 iPd	07	54	.00
	1.5s	40.00nm			5.3mb
		eS	18	00	.00
KNT	83.33	1 eP	07	52	.96
OHR	83.34	3 eP	07	53	.20
SRS	83.39	1 eP	07	52	.20
GRG	83.53	2 eP	07	55	.00
MAIO	83.56	332 iPc	07	55	.20
		eS	18	26	.00
ALN	83.61	359 iP	07	54	.12
SOH	83.68	1 eP	07	54	.32
OUR	84.17	1 eP	07	57	.24
LIT	84.39	2 eP	07	58	.44
MAL	84.46	23 iPd	08	05	.00
		iS	18	28	.00
NDI	84.72	316 eP	08	00	.50
OUE	87.07	324 eP	08	12	.00
CSS	89.25	353 eP	08	22	.30
HYB	94.17	309 eP	08	44	.50
	1.0s	30.00nm			5.7mb
WRA	95.91	243 P	08	51	.80
	0.8s	0.50nm			4.0mb X
WPA	95.91	243 P	08	59	.00
	0.9s	1 50nm			4.5mb
BCAO	119.69	7 ePKPd	14	15	.00
	1.1s	11.00nm			
		ic	15	39	.20
BUL	144.22	354 iPKPd	14	59	.60
		i	15	07	.10
CIR	144.84	349 iPKPd	15	03	.10
SPA	145.68	180 iPKPc	15	02	.20
	1.0s	72.50nm			
SLR	149.80	354 iPKPc	15	15	.50
	0.7s	61.00nm			
KSR	149.99	356 ePKP	15	15	.00
	1.2s	90.00nm			
PPY	151 03	355 iPKPc	15	17	.20
	0.8s	26.00nm			
SEK	152.41	355 iPKPc	15	21	.10

	0.8s	40.00nm			
BLF	153.24	357 ePKP	15	19	.00
FRS	153.90	359 ePKP	15	22	.00
	1.0s	20.00nm			
GRM	157.42	356 iPKPc	15	17	.20
	0.8s	14.93nm			
	S.D. = 0.9	on 220 of 273 obs.			

? MAY 28, 1993 16h 52m 18.19± 3.86s
30.336 S ±18.4km 71.852 W ±34.6km
DEPTH = 54.5 ± 30.0 km
NEAR COAST OF CENTRAL CHILE (135)

RTBS	2.45	123 ePc	52	57	.00
ZON	2.98	115 eP	53	02	.90
		eS	53	49	.90
RTLL	3.07	110 iPc	53	06	.20
CFA	3.35	113 iPd	53	10	.00
		S	53	55	.00
RTPR	4.62	91 ePc	53	27	.60
CYA	5.61	72 ePd	53	41	.50
		(S)	55	03	.50
TCA	6.32	101 ePc	53	49	.40
		S	55	12	.00
FSA	6.67	52 e(P)	54	00	.00
ANT	6.73	11 eP	54	15	.50
SLA	7.94	47 e(P)	54	20	.80
CNCB	13.92	16 eP	55	46	.00
LPB	14.16	15 P	55	46	.00
ZOBO	14.41	15 P	55	41	.00
BAO	26.31	62 iPd	57	51	.20
	S.D. = 1.1	on 9 of 14 obs.			

% MAY 28, 1993 17h 01m 00 42± 2.88s
39.372 N ±18.2km 23.777 E ±19.8km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

PAIG	0.56	352 ePg	01	10	.70
		eSg	01	19	.56
OUR	0.97	9 ePg	01	18	.30
		eSg	01	32	.05
AGG	1.18	253 ePb	01	22	.05
		eSb	01	39	.20
LIT	1.23	307 ePb	01	23	.30
SOH	1.48	348 iPb	01	27	.05
		eSb	01	49	.10
SRS	1.75	355 ePb	01	31	.92
GRG	1.90	327 ePb	01	33	.90
KNT	1.91	340 ePb	01	33	.80
	S.D. = 0.8	on 8 of 8 obs.			

? MAY 28, 1993 17h 31m 10.33± 1 16s
37.031 N ±13.9km 68.067 E ±18.7km
DEPTH = 33.0km (normal)
4.4mb (3 obs.)
AFGHANISTAN-TAJIKISTAN BORD REG.(717)

QUE	6.89	188 eP	32	52	.30
MAIO	6.93	267 ePn	32	53	.00
		eSn	34	17	.00
NDI	11 33	135 e(P)	33	48	.00
		eS	35	39	.00
BCAO	55 67	247 iPd	40	44	.20
	0.8s	11.00nm			4.9mb
MBC	66.90	2 eP	42	01	.50
	1.0s	3 00nm			4.3mb
INK	73.74	8 eP	42	45	.00
YKA	80.80	1 eP	43	21	.30
	0.9s	2.00nm			4.1mb
	S.D. = 1.4	on 5 of 7 obs.			

? MAY 28, 1993 18h 16m 15.19± 0.94s
31.692 S ±13.2km 67.988 W ± 6.4km
DEPTH = 10.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

CFA	0.23	291 iPd	16	20	.70
		S	16	24	.20
RTLL	0.55	311 ePc	16	26	.00
		S	16	32	.00
RTBS	1.25	271 e(P)c	16	38	.10
RTPR	1.88	43 e(P)	16	47	.60
MRA	2 06	111 e(P)	16	50	.30
	S.D. = 0.5	on 5 of 5 obs.			

• MAY 28, 1993 18h 21m 16.01± 0.38s
59.105 S ±10.8km 25.504 W ±11.9km
DEPTH = 33.0km (normal)
4.8mb (3 obs.)
SOUTH SANDWICH ISLANDS REGION (153)

SNA	14.84	149 iPc	24	44	.10
	0.7s	37.00nm			4.9mb
NVL	19.24	142 eP	25	41	.00
SPA	31.07	180 iPc	27	33	.20
	1.0s	10.00nm			4.6mb
CFA	39.64	295 ePc	28	45	.00
RTLL	39.97	295 ePc	28	48	.00
RTBS	40.16	293 e(P)c	28	50	.70
PPD	41.37	322 (P)	29	06	.00
CNCB	52.36	305 P	30	29	.00
LPB	52.66	305 eP	30	30	.00
ZOBO	52.90	305 P	30	28	.00
LIC	67.15	22 P	32	08	.50
KIC	67.34	22 P	32	09	.50
BCAO	72.30	47 iPd	32	40	.90
	0.8s	11.00nm			4.9mb
ASPA	95.80	161 eP	34	40	.20
	3.1s	12.60nm			4.8mb X
JAQ	119.59	328 ePKP	40	00	.50
ULM	123.06	314 ePKP	40	11	.00
NB2	123.16	20 PKP	40	08	.80
	0.9s	2.50nm			
DMN	123.78	92 PKP	40	11	.60
GKN	123.86	91 PKP	40	11	.20
PKI	123.91	92 PKP	40	09	.00
KKN	124.02	92 PKP	40	11	.60
GUN	124.43	93 PKP	40	12	.20
FRB	126.83	338 ePKP	40	16	.00
	1.0s	4.00nm			
KAF	127.30	28 ePKP	40	16	.40
YKA	139.02	315 ePKP	40	34	.60
	0.8s	6.20nm			
MBC	147.14	334 ePKP	40	55	.00
	0.9s	7.00nm			
INK	148.71	317 ePKP	41	00	.50
	0.7s	2.00nm			
BJI	149.28	111 ePKP	41	02	.00
	S.D. = 1.1	on 22 of 28 obs.			

& MAY 28, 1993 18h 33m 31.33s
63.442 N 150.978 W
DEPTH = 27.3km
CENTRAL ALASKA (1)
<AEIC>. ML 2.5 (AEIC).

RND	0.96	91 eP	33	48	.50
		S	34	01	.14
NEA	1.41	35 eP	33	55	.98
		S	34	13	.51
SKT	1.49	190 eP	33	56	.24
		eS	34	15	.43
MLY	1.60	4 eP	33	56	.85
		eS	34	18	.89
WRH	1.64	50 eP	33	57	.92
		S	34	20	.14
CCB	1.85	48 eP	34	00	.44
PWA	1.87	164 P	34	02	.70
GHO	1.93	150 eP	34	02	.74
		eS	34	27	.16
MDM	1.94	37 eP	34	03	.00
SUA	1.99	177 eP	34	03	.87
FBA	2.02	42 eP	34	03	.38
HDA	2.02	60 eP	34	03	.24
PMR	2.04	154 eP	34	04	.71
SML	2.05	142 eP	34	04	.41
CGLM	2.20	193 eP	34	06	.48
		eS	34	33	.55
CRP	2.25	195 eP	34	06	.95
		eS	34	36	.55
CPAM	2.26	194 eP	34	07	.24
BGL	2.28	197 eP	34	08	.44
PMS	2.30	163 eP	34	08	.93
SPU	2.32	193 eP	34	08	.47
SCM	2.33	132 eP	34	09	.56
TTA	2.34	260 (P)	34	06	.53
		eS	34	39	.04
CKL	2.34	196 eP	34	07	.94
SDG	2.65	108 eP	34	10	.97
PTE	2.74	160 eP	34	13	.94
IMA	2.88	338 eP	34	14	.74
		eS	34	55	.50
SLKM	2.97	173 eP	34	17	.53

					5.2mb
			07	27	10
			07	34	.60
			08	07	.40
RJF	77.31	17 iPc	07	20	.20
	1.0s	14.40nm			5.0mb
Z	20s	1.50um			5.3Msz
KIS	77.44	357 iPc+	07	20	.00
	1.1s	30.00nm			5.2mb
		e	07	32	.00
		eS	17	42	.00
LFF	77.53	17 iPc	07	21	.90
	0.9s	19.00nm			5.1mb
CAF	77.76	16 iPc	07	23	.10
	0.9s	6.70nm			4.7mb
LPL	77.85	13 iPc	07	24	.70
	1.0s	7.60nm			4.7mb
LPO	77.86	17 iPc	07	23	.50
	0.9s	10.00nm			4.8mb
LPG	77.87	13 iPc	07	24	.90
	1.1s	7.55nm			4.6mb
CVO	78.68	359 eP	07	25	.50
MLR	79.01	359 eP	07	31	.50
PYA	79.29	347 eP	07	32	.00
	1.0s	50.00nm			5.5mb
EPF	79.32	18 iPc	07	31	.00
	1.3s	14.80nm			4.8mb
KIV	79.41	347 iPc	07	33	.00
	1.0s	67 00nm			5.6mb
		e	07	40	.20
		e	07	48	.90
GPO	79.59	345 eP	07	34	.50
	1.0s	110.00nm			5.8mb
MTA	81.34	345 iPc	07	43	.00
	0.8s	70.00nm			5.7mb
		e	17	55	.00
GUN	81.77	309 P	07	45	.30
KKN	82 14	309 P	07	47	.00
	0.9s	62.00nm			5.6mb
GKN	82.24	310 P	07	47	.60
PKI	82 28	309 P	07	47	.70
	1.0s	72.00nm			5.7mb
ASH	82.29	334 eP	07	46	.60
DMN	82.38	309 P	07	48	.40
SKO	82.50	3 iP	07	49	.20
VAY	83.17	2 eP	07	52	.50
CHTO	83 19	293 ePc	07	51	.20
	1.1s	12.07nm			4.9mb
GRS	83.26	343 iPd	07	54	.00
	1.5s	40.00nm			5.3mb
		eS	18	00	.00
KNT	83.33	1 eP	07	52	.96
OHR	83.34	3 eP	07	53	.20
SRS	83.39	1 eP	07	52	.20
GRG	83.53	2 eP	07	55	.00
MAIO	83.56	332 iPc	07	55	.20
		eS	18	26	.00
ALN	83.61	359 iP	07	54	.12
SOH	83.68	1 eP	07	54	.32
OUR	84.17	1 eP	07	57	.24
LIT	84.39	2 eP	07	58	.44
MAL	84.46	23 iPd	08	05	.00
		iS	18	28	.00
NDI	84.72	316 eP	08	00	.50
OUE	87.07	324 eP	08	12	.00
CSS	89.25	353 eP	08	22	.30
HYB	94.17	309 eP	08	44	.50
	1.0s	30.00nm			5.7mb
WRA	95.91	243 P	08	51	.80
	0.8s	0.50nm			4.0mb X
WPA	95.91	243 P	08	59	.00
	0.9s	1 50nm			4.5mb
BCAO	119.69	7 ePKPd	14	15	.00
	1.1s	11.00nm			
		ic	15	39	.20
BUL	144.22	354 iPKPd	14	59	.60
		i	15	07	.10
CIR	144.84	349 iPKPd	15	03	.10
SPA	145.68	180 iPKPc	15	02	.20
	1.0s	72.50nm			
SLR	149.80	354 iPKPc	15	15	.50
	0.7s	61.00nm			
KSR	149.99	356 ePKP	15	15	.00
	1.2s	90.00nm			
PPY	151 03	355 iPKPc	15	17	.20
	0.8s	26.00nm			
SEK	152.41	355 iPKPc	15	21	.10

28d 18h

KLU 3.06 128 eP 34 18.89 -0.1
28 obs. associated

& MAY 28, 1993 19h 32m 56.25s
59.496 N 152.727 W
DEPTH = 79.3km
SOUTHERN ALASKA (2)
<AEIC>.

OPT 0.30 302 iPd 33 08.09 -0.6
eS 33 16.97
AUE 0.36 248 iPd 33 08.42 -0.5
AUL 0.38 253 iPd 33 08.70 -0.4
AUP 0.38 250 iPd 33 08.72 -0.5
AUH 0.39 250 iPd 33 08.73 -0.6
AUI 0.39 246 iPd 33 08.56 -0.7
eS 33 18.15
AUW 0.40 252 ePd 33 08.84 -0.4
XLV 0.51 94 iPc 33 09.47 -0.8
eS 33 19.90
INE 0.59 343 ePc 33 10.43 -0.7
eS 33 21.12
INW 0.61 340 eP 33 10.63 -0.6
eS 33 21.63
CDD 0.74 220 iPd 33 11.57 -0.9
eS 33 24.00
CNPM 0.76 87 iPc 33 11.92 -0.8
eS 33 24.00
PDB 0.80 292 ePc 33 12.17 -1.0
eS 33 24.55
MCNL 0.88 250 iPd 33 12.90 -1.2
SYI 0.91 169 iPd 33 13.75 -0.6
eS 33 26.86
RSO 0.97 359 iPd 33 14.58 -0.8
eS 33 29.02
BRLK 0.97 73 eP 33 14.21 -1.0
eS 33 27.55
RDW 0.99 358 ePd 33 14.76 -0.9
eS 33 29.45
NCT 1.07 355 ePd 33 15.68 -0.9
eS 33 30.53
DFR 1.10 1 iPd 33 16.06 -0.8
eS 33 31.52
SLKM 1.62 50 eP 33 22.39 -1.1
CKL 1.72 6 iPd 33 24.18 -0.8
SPU 1.72 11 iPd 33 24.14 -0.9
KDC 1.76 176 eP 33 22.89 -2.5
eS 33 42.54
SEW 1.77 68 eP 33 24.88 -0.6
BGL 1.78 5 ePd 33 25.16 -0.7
CPAM 1.79 9 ePd 33 25.22 -0.7
CRP 1.80 9 iPd 33 24.86 -1.3
eS 33 46.25
CGLM 1.85 11 iPd 33 26.01 -0.8
MPA 1.96 58 ePd 33 27.03 -1.1
SVW 2.17 320 iPc 33 29.45 -1.6
SUA 2.21 26 ePd 33 30.95 -0.7
PTE 2.30 52 eP 33 31.24 -1.6
PMS 2.36 41 P 33 32.40 -1.2
SKT 2.56 13 eP 33 35.45 -1.0
PWA 2.58 32 P 33 36.00 -0.6
PMR 2.75 39 eP 33 35.93 -3.1
GHO 2.95 38 eP 33 40.16 -1.7
SML 3.17 41 eP 33 43.00 -1.9
HIN 3.26 71 eP 33 43.21 -2.9
SCM 3.54 46 eP 33 47.83 -2.3
VLZ 3.58 60 eP 33 47.98 -2.5
TTA 3.79 337 eP 33 51.26 -2.3
SGAM 3.91 72 eP 33 52.74 -2.4
KLU 3.92 56 ePd 33 52.64 -2.7
TRF 4.14 15 eP 33 57.43 -1.1
HMT 4.34 75 eP 33 58.97 -2.3
GLB 4.82 62 eP 34 04.70 -3.3
BALM 5.39 69 (P) 34 12.55 -3.4
eS 35 09.97
HDA 5.63 26 ePc 34 16.71 -2.4
FBA 5.89 21 ePd 34 20.19 -2.6
0.5s 4.90nm 4.1mb X
SDN 5.91 229 eP 34 17.04 -6.0
IMA 6.61 357 iPc 34 30.88 -2.0
53 obs. associated

MAY 28, 1993 20h 03m 24.92± 0.53s
26.395 S ± 4.9km 27.395 E ± 6.3km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 4.0 (PRE). mbLg 3.7 (BUL).

PRY 0.54 172 iPc 03 35.00 -0.7
S 03 40.00
KSR 0.69 320 iPc 03 39.00 0.2
S 03 47.50
BFS 0.74 227 iPc 03 40.90 1.2
S 03 50.20
SLR 1.03 51 iPc 03 45.00 0.0
S 03 57.70
SEK 1.93 174 iPc 03 59.50 0.6
SWZ 2.01 247 eP 04 00.40 0.4
S 04 27.10
BFT 2.48 74 eP 04 08.10 1.2
S 04 37.70
BLF 2.91 201 iP 04 12.60 -0.3
S 04 50.50
FRS 3.81 208 iPc 04 24.10 -1.4
S 05 05.00
BUL 6.32 10 iPd 04 59.90 -1.4
iSn 06 11.00
iSg 06 40.50
CIR 6.59 36 iPn 05 05.10 0.2
iSn 06 15.00
iSg 06 43.00
GRM 6.93 186 eP 05 06.50 -3.2X
S 06 04.00
POF 7.23 244 eP 05 36.00 22.2X
S 07 06.00
SUR 8.28 222 eP 05 25.00 -3.7X
S 06 53.00
CER 9.88 223 eP 05 45.50 -5.2X
S 07 29.50
WIN 10.12 290 eP 05 50.50 -3.7X
S 07 40.50
MTD 10.33 23 iPnd 05 53.00 -4.0X
iSn 07 43.80
iSg 08 39.00
S.D. = 1.0 on 11 of 17 obs.

% MAY 28, 1993 20h 19m 02.77± 1.01s
42.976 N ±14.2km 7.658 E ± 9.1km
DEPTH = 10.0km (geophysicist)
WESTERN MEDITERRANEAN SEA (387)
ML 2.2 (LDG).

SBF 0.90 350 Pg 19 20.00 -0.1
Sg 19 30.20
LMR 0.91 293 Pn 19 20.40 0.2
Sn 19 32.00
FRF 0.94 309 Pn 19 21.10 0.4
Sn 19 32.30
LRG 1.06 297 Pn 19 22.30 -0.5
Sn 19 36.10
PGF 1.08 113 Pn 19 23.10 0.0
Sn 19 35.50
S.D. = 0.4 on 5 of 5 obs.

MAY 28, 1993 20h 45m 19.75± 1.09s
46.330 N ± 7.4km 0.209 W ±10.8km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 3.0 (LDG).

MFF 0.28 9 Pg 45 27.30 1.7
Sg 45 32.00
LSF 1.21 93 Pg 45 43.50 1.2
Sg 45 59.40
LFF 1.54 154 Pg 45 45.90 -1.4
Sg 46 06.20
RJF 1.58 130 Pg 45 48.00 0.1
Sg 46 08.30
TCF 1.68 91 Pn 45 49.20 -0.1
Pg 45 52.20
Sg 46 14.30
LPF 1.79 342 Pn 45 51.60 0.7
Pg 45 54.50
Sg 46 18.00
LPO 1.92 149 Pg 45 53.40 0.7
Sg 46 17.40
MAF 1.93 92 Pn 45 51.20 -1.7
Pg 45 56.20
Sg 46 21.40
GRR 2.11 348 Pn 45 53.80 -1.7
Pg 45 59.20
Sg 46 28.40
BGF 2.12 83 Pn 45 55.40 -0.4
Pg 46 00.80
Sg 46 28.56

CAF 2.12 131 Pg 45 58.10 2.3
Sg 46 24.10
LDF 2.27 1 Pg 46 03.20 5.4X
Sg 46 32.60
PYM 2.31 103 Pg 46 03.40 4.8X
Sg 46 34.83
FLN 2.44 356 Pg 46 05.90 5.6X
Sg 46 38.30
AVF 2.50 78 Pn 46 00.80 -0.3
Pg 46 07.70
Sg 46 39.60
LBL 2.66 113 Pn 46 06.10 2.7X
SSF 2.66 73 Pg 46 09.60 6.2X
Sg 46 45.00
SMF 2.82 82 Pg 46 05.20 -0.4
LOR 2.95 70 Pn 46 06.80 -0.7
Pg 46 14.90
Sg 46 53.40
LBF 2.96 76 Pg 46 15.20 7.6X
Sg 46 54.50
S.D. = 1.3 on 14 of 20 obs.

MAY 28, 1993 20h 57m 11.39± 0.22s
9.023 S ± 4.4km 123.662 E ± 6.2km
DEPTH = 33.0km (normal)
5.3mb (22 obs.) 4.6Msz (1 obs.)
TIMOR REGION, INDONESIA (289)

MTN 8.26 118 eP 59 12.70 0.8
eS 00 38.00
KNA 8.34 144 eP 59 12.10 -0.9
0.2s 100.00nm 6.6mb X
eS 00 36.00
MBL 12.62 197 eP 00 10.40 -1.0
0.4s 46.00nm 5.9mb
eS 02 20.00
TSM 14.43 336 ePc 00 44.00 8.6X
WB2 14.99 138 iPc 00 39.20 -3.5X
eS 03 13.60
LEM 16.04 277 iPd 00 58.30 1.9
KKM 16.71 333 ePd 01 10.90 6.1X
0.9s 71.60nm 4.8mb
WARB 17.30 171 eP 01 05.30 -6.8X
eS 04 04.00
ASPA 17.55 147 eP 01 14.30 -1.0
Z 20s 0.40um
eS 04 11.30
MEEK 18.16 195 eP 01 23.00 0.2
eS 04 32.00
PLP 20.10 4 ePc 01 47.50 2.2
PGP 22.54 353 iPd 02 13.50 3.5X
1 0s 152.00nm 5.4mb
CTA 24.44 119 eP 02 41.00 12.4X
RKG 26.15 193 eP 02 45.00 0.5
IPM 26.30 300 ePd 02 47.40 1.3
STK 28.19 146 eP 03 02.90 -0.2
0.5s 5.70nm 4.5mb
ipP 03 30.40 129kmX
iS 08 23.60
ARMA 33.68 133 eP 03 53.30 1.5
BWA 33.99 142 eP 03 56.20 1.9
LOE 34.05 320 eP 03 56.00 1.1
KHT 34.31 313 eP 03 58.00 0.8
TOO 34.59 149 iPd 04 01.10 1.7
0.7s 16.00nm 5.1mb
CAN 34.94 142 eP 04 06.00 3.5X
CNB 35.16 142 eP 04 05.50 1.2
BDT 35.71 317 eP 04 03.00 -6.1X
CHTO 36.87 319 iPc 04 20.40 1.5
0.9s 30.90nm 5.2mb
KMI 39.59 329 eP 04 44.45 2.6
1.5s 70.00nm 5.2mb
TKSJ 43.89 12 P 05 17.30 0.7
WKYJ 44.47 14 P 05 21.90 0.5
YONJ 44.94 11 P 05 25.50 0.4
MAT 47.34 16 eP 05 43.00 -1.1
1 1s 20.25nm 5.0mb
eS 17 22.00
LZH 48.60 339 Pc 05 54.60 0.5
1.5s 65.00nm 5.4mb
BJI 49.30 352 eP 05 58.00 -1.2
1.2s 16.00nm 4.9mb
YAMJ 49.38 17 eP 05 59.60 -0.2
OFUJ 50.70 18 eP 06 10.00 0.1
GBA 51.09 296 P 06 12.00 -1.3
0.8s 7.00nm 4.7mb
HYB 51.74 301 eP 06 16.00 -2.2X

GUN 51.80 316 P 06 18.40 -0.5
PKI 51.91 316 P 06 18.80 -0.9
0.6s 34.00nm 5.5mb
KKN 52.14 316 P 06 20.40 -0.9
DMN 52.15 316 P 06 20.60 -0.8
0.6s 37.00nm 5.5mb
GKN 52.71 316 P 06 25.00 -0.5
ASAJ 55.62 16 eP 06 46.10 -0.2
CSY 57.89 186 iPc 07 01.50 -0.7
0.4s 10.20nm 5.2mb
ZAK 61.76 345 iPc 07 28.20 -0.8
e 08 08.80
MOY 63.54 344 eP 07 40.90 0.2
1.2s 32.00nm 5.3mb
PRZ 65.83 325 eP 07 57.00 1.0
0.8s 100.00nm 6.0mb
BOD 67.09 355 iPc 08 02.90 -0.6
0.8s 45.00nm 5.6mb
YAK 70.98 3 iPc 08 26.50 -0.9
0.8s 151.00nm 6.1mb
MGD 72.21 14 eP 08 34.00 -0.8
MAIO 75.17 311 eP 08 53.00 0.3
TIK 80.56 2 iPc 09 20.00 -1.4
1.6s 65.00nm 5.4mb
e 19 17.00
NRI 82.03 348 Pc 09 29.00 -0.2
1.0s 35.00nm 5.3mb
SVE 83.32 330 ePc 09 46.00 9.9X
1.1s 60.00nm 5.6mb
e 10 02.50
ARU 84.14 330 eP 09 40.00 -0.3
GRS 86.05 311 eP 09 49.00 -1.4
1 4s 40.00nm 5.5mb
NAI 86.70 269 iPd 09 58.00 3.8X
Z 20s 0.25um 4.6Msz
ILT 86.80 19 eP 09 54.00 0.8
YKA 112.28 25 ePKP 15 43.50 -1.6
0.4s 0.50nm
SSF 116.93 318 ePKP 15 54.00 -0.5
0.4s 2.25nm
BGF 117.51 318 ePKP 15 55.30 -0.3
0.5s 6.25nm
TCF 118.01 318 ePKP 15 56.40 -0.2
CAF 118.51 316 ePKP 15 57.50 -0.1
0.5s 1.45nm
LDF 118.76 321 ePKP 15 57.60 -0.3
RJF 118.77 317 ePKP 15 57.80 -0.3
FLN 118.93 321 ePKP 15 57.60 -0.6
LPO 119.18 316 ePKP 15 58.80 -0.1
GRR 119.29 321 ePkP 15 58.30 -0.6
0 3s 1.20nm
LFF 119.40 317 ePKP 15 59.20 -0.1
0.6s 3.70nm
MFF 119.46 319 ePKP 15 58.70 -0.6
0.4s 1.45nm
LPF 119.53 321 ePKP 15 58.90 -0.5
0.4s 4.75nm
SLA 145.29 165 ePKPd 16 48.40 0.0
RSTA 145.78 192 ePKP 16 49.90 0.9
MOCB 148.56 163 PKP 16 59.00 4.8X
PPD 148.75 189 ePKP 17 01.80 7.9X
NNA 150.83 135 ePKP 17 02.50 5.2X
0.4s 8.47nm
CNCB 151.87 156 PKP 17 07.80 8.4X
LPB 152.07 155 ePKP 17 09.00 9.5X
ZOBO 152.30 155 PKP 16 59.00 -1.0
S.D. = 1.0 on 62 of 78 obs.

? MAY 28, 1993 20h 58m 19.89±21.73s
18.897 N ±111.km 65.400 W ±135.km
DEPTH = 33.0km (normal)
PUERTO RICO REGION (90)

LPR 0.74 217 P 58 33.90 0.0
CPD 0.98 210 P 58 37.50 0.1
SJG 1.06 222 iP 58 38.10 -0.3
APR 1.34 251 P 58 42.50 0.1
CLLP 1.38 234 P 58 43.00 0.0
PORP 1.44 235 P 58 44.00 0.1
LRS 1.50 247 P 58 44.10 -0.6
MGP 1.83 241 P 58 50.20 0.6
S.D. = 0.4 on 8 of 8 obs.

% MAY 28, 1993 21h 07m 32.89± 2.21s
38.949 N ±10.7km 30.360 E ±19.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ML 2.9 (ISK).

ALT 0.22 299 iPg 07 36.80 -0.9
iSg 07 40.30
KHL 0.91 227 ePg 07 50.20 -0.1
eSg 08 03.20
DST 1.50 297 ePn 08 00.00 0.2
EYL 1.62 355 ePn 08 01.00 -0.7
YLV 1.79 335 ePn 08 04.50 0.5
KCT 2.02 311 ePn 08 08.50 1.1
S.D. = 1.0 on 6 of 6 obs.

MAY 28, 1993 21h 28m 26.60± 0.90s
51.602 N ± 7.7km 16.120 E ± 5.8km
DEPTH = 6.5 ± 3.1 km
4.2mb (2 obs.)
POLAND (548)
ML 3.9 (GRF), 3.8 (VIE), 3.6 (BRA).

KSP 0.77 172 iP 28 41.60 -0.3
iS 28 51.30
BRG 1.55 243 iPn 28 55.60 0.9
iPg 28 56.30
iSg 29 16.30
PRU 1.90 212 Pn 28 59.80 0.0
0.3s 149.00nm
Pg 29 01.80
i 29 03.50
eSn 29 19.00
Sg 29 25.30
CLL 1.97 263 iPn 29 00.70 -0.1
iPg 29 04.10
iSg 29 29.80
RAC 2.01 138 eP 29 06.00 4.6X
i 29 06.40
iSg 29 34.30
OJC 2.71 119 iP 29 10.80 -0.6
iS 29 55.10
KHC 2.96 214 Pn 29 15.00 0.0
1.0s 39.00nm
ePg 29 24.90
Sn 29 50.00
Sg 30 03.50
e 30 08.00
HOF 2.98 246 ePn 29 15.00 -0.2
MOX 2.99 253 ePn 29 15.60 0.2
iPg 29 23.70
iSg 30 01.80
eSg 41 07.90
GEC2 3.17 210 Pn 29 17.80 -0.1
Pg 29 24.70
Sg 30 07.60
WET 3.22 221 iPnc 29 18.80 0.2
VKA 3.34 178 iPgc 29 29.90 9.5X
iSg 30 12.40
ZST 3.47 169 eP 29 24.00 1.9
e 29 41.00
e(Sn) 30 15.30
Lg 30 27.00
SPC 3.58 131 e(Pn) 29 27.70 3.8X
i 29 35.30
i 29 40.30
i(Sn) 30 20.20
GRF 3.66 240 iPnc 29 25.10 0.3
e(Pg) 29 38.70
eSg 30 23.80
SOP 3.93 176 ePn 29 39.30 10.5X
SRO 4.05 159 eP 29 51.90 21.5X
KBA 4.88 203 iPnc 29 42.00 -0.3
iSg 31 03.40
TNS 5.05 257 ePnd 29 50.20 5.6X
ePgc 30 26.00
e 31 09.30
iSn 31 15.90
e 40 14.90
e 40 28.80
WATA 5.20 217 iPnc 29 46.20 -0.6
WTTA 5.23 216 iPnd 29 47.00 -0.4
0.9s 25.20nm 4.9mb
i 31 11.60
MOTA 5.37 219 iPnd 29 48.30 -1.0
YKA 59.78 336 eP 38 34.20 0.0
0.8s 0.40nm 3.6mb
S.D. = 0.7 on 17 of 23 obs.

? MAY 28, 1993 21h 30m 40.06± 8.20s
18.853 N ±41.9km 65.663 W ±40.8km
DEPTH = 10.0km (geophysicist)
PUERTO RICO REGION (90)

LPR 0.58 200 P 30 52.20 0.4
S 31 03.20
CPD 0.84 197 P 30 56.00 -0.4
SJG 0.87 212 iP 30 57.00 0.2
S 31 12.00
APR 1.09 249 P 31 00.90 0.4
S 31 18.90
CLLP 1 16 229 P 31 01.30 -0.4
PORP 1.22 229 P 31 02.20 -0.6
LRS 1.25 244 P 31 03.60 0.2
MGP 1.59 238 P 31 08.20 -0.2
S.D = 0.5 on 8 of 8 obs.

MAY 28, 1993 21h 39m 22.06± 0.87s
51.507 N ± 6.9km 6.524 E ±10.2km
DEPTH = 10.0km (geophysicist)
GERMANY (543)
ML 2.3 (BNS), 2.1 (UCC).

WTS 0.52 20 ePg 39 32.50 -0.1
1.0s 38.50nm
BNS 0.68 143 iPgc 39 34.86 -0.7
0.9s 120.00nm
iSg 39 44.15
ENN 0.83 207 ePg 39 37.50 -0.6
0.4s 6.20nm
SNF 1.73 236 iPc 39 52.60 0.3
ABH 1.75 158 ePn 39 53.91 1.2
RUP 1.84 169 ePn 39 53.91 -0.1
WLF 1.86 187 iPc 39 55.80 1.6X
iS 40 17.82
DOU 1.87 222 iP 39 58.90 4.6X
S.D. = 0.9 on 6 of 8 obs.

& MAY 28, 1993 23h 18m 40.06s
35.145 N 119.100 W
DEPTH = 22.7km
CENTRAL CALIFORNIA (39)
<PAS-P>. ML 2.8 (PAS). Felt.

ABL 0.31 199 iPc 18 46.44 -0.8
ISA 0.73 45 eP 18 53.01 -1.0
eS 19 02.41
BCH 0.81 273 iPc 18 54.19 -1.2
eS 19 04.36
PHAM 1.26 303 eP 19 02.24 -0.2
SSK 1.49 128 eP 19 05.53 -0.2
eS 19 23.89
GSC 1.89 85 (Pn) 19 11.53 0.1
ePg 19 15.17
PEC 2.03 127 ePn 19 12.73 -0.8
MMPM 2.46 1 ePn 19 20.26 0.3
eS 19 51.06
MEMM 2.52 3 ePn 19 21.67 1.3
eS 19 52.37
MRCM 2.57 11 ePn 19 22.28 0.9
eS 19 57.05
TNP 3.30 27 ePn 19 31.51 -0.2
11 obs. assaciated

? MAY 29, 1993 00h 00m 53.49± 2.29s
53.792 N ±47.1km 163.925 W ±21.3km
DEPTH = 33.0km (normal)
4.4mb (8 obs.)
UNIMAK ISLAND REGION (10)

SDN 2.53 51 eP 01 32.27 -0.8
(S) 02 05.22
ADK 7.96 261 eP 02 49.30 -0.4
KLU 12.31 44 eP 03 44.98 -4.3X
BALM 13.66 49 (P) 04 03.99 -3.1X
INK 20.36 33 eP 05 34.00 4.6X
0.9s 3.00nm 3.6mb
YKA 26.81 51 eP 06 32.50 0.5
0.6s 1.00nm 3.6mb
KAF 64.16 355 iP 11 26.40 0.1
0.6s 4.40nm 4.7mb
NB2 65.45 3 P 11 35.30 0.6
0.9s 3.60nm 4.5mb
NUR 65.84 355 iP 11 37.40 0.2
0.6s 4.00nm 4.7mb
HFS 66.41 1 eP 11 39.40 -1.4
0.5s 4.30nm 4.8mb

29d 00h

```
      Z  17s      0.03um          3.6MszX
                   LR     36 54.00
GEC2    77.72    2 P      12 49.60   1.4
        0.8s      1.08nm          3.9mb
                  e       13 01.00
SSF     78.96    9 eP     12 55.30   0.4
        0.8s      3.10nm          4.4mb
SMF     79.40    9 eP     12 56.70  -0.6
      S.D. = 0.9   on  10 of  13 obs.
-----------------------------------------
&  MAY  29, 1993  00h 12m 28.87s
   36.090 N          117.704 W
   DEPTH =   0.1km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      <PAS-P>. ML 3.1 (PAS), 3.3 (GS),
      3.6 (BRK).

ISA     0.76 236 eP     12 43.23  -0.7
                 eS     12 52.54
GSC     1.07 137 iPd    12 48.74  -1.3
                 eS     13 03.61
TPNV    1.45  53 P      12 55.10  -1.4
MRCM    1.70 338 (Pn)   12 55.67  -4.5
                 ePg    13 01.08
ABL     1.75 225 ePn    13 00.12  -0.7
MMPM    1.85 325 ePn    12 59.36  -3.1
                 ePg    13 02.57
                 eS     13 26.75
MEMM    1.86 328 (Pn)   12 58.86  -3.3
                 ePg    13 02.88
BONR    1.92 346 ePn    12 59 09  -4.4
                 ePg    13 04.31
PKEM    1.95 270 ePn    13 00.39  -3.2
                 ePg    13 05.30
TNP     2.03  11 ePn    12 59.38  -5.5
                 ePg    13 07.63
                 (S)    13 33.05
BCH     2.14 246 ePn    13 04.31  -2.1
                 ePg    13 06.90
PHAM    2.20 264 (Pn)   13 05.95  -1.3
                 ePg    13 07.89
PEC     2.24 168 eP     13 06.57  -1.2
                 eS     13 38.84
PLM     2.82 166 ePn    13 14.21  -2.0
                 ePg    13 20.89
CMB     2.89 313 ePc    13 19.15   2.0
                 eS     13 56.66
CMB     2.89 313 ePn    13 13.78  -3.4
                 ePg    13 18.91
                 eS     13 57.63
KVN     2.97 354 (Pn)   13 13.62  -4.8
SAO     3.09 284 ePd    13 20.66   0.8
SAO     3.09 284 ePn    13 16.21  -3.7
                 ePg    13 20.54
                 eS     14 04.79
ARN     3.32 293 ePn    13 20.07  -3.2
MHC     3.40 293 eP     13 28.29   3.9
                 eS     14 14.10
ARUT    3.81  62 ePn    13 26.04  -4.3
                 ePg    13 39.11
GLA     3.85 141 P      13 25.30  -5.4
      23 obs. associated
-----------------------------------------
?  MAY  29, 1993  00h 16m 05.76± 4.80s
   11.610 N ± 8.1km   62.046 W ±58.5km
   DEPTH = 100.3 ± 39.9 km
 WINDWARD ISLANDS                ( 95)
      MD 3.2 (TRN).

GRW     0.66  35 eP     16 23.19   0.0
                 eS     16 36.83
TCE     0.95 162 eP     16 25.95   0.0
                 eS     16 40.82
TRN     1.15 147 eP     16 28.13   0.0
                 eS     16 43.95
TPP     1.41 155 eP     16 34.96   3.7X
TBH     1.48 139 eP     16 32.09   0.0
SVB     1.82  25 eP     16 36.71   0.1
                 eS     17 07.55
SVV     1 88  25 eP     16 37.18  -0.1
      S.D. = 0.1   on   6 of   7 obs.
-----------------------------------------
   MAY  29, 1993  00h 18m 34.91± 0.17s
   18.378 S ± 6.2km  174.922 W ± 4.3km
   DEPTH = 194.5km  ( 35 depth phases)
   5.0mb ( 40 obs.)
 TONGA ISLANDS                   (173)

      Mw 5.4 (HRV).
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 37S, 61C
      Centroid Location:
      Origin Time        00:18:39.6 0.4
      Lat 18.50S 0.03 Lon 174.81W 0.04
      Dep 210.8 1.2 Half-duration  1.3
      Moment Tensor;   Scale 10**17 Nm
        Mrr=-0.85 0.03  Mtt= 1.64 0.06
        Mff=-0.80 0.07  Mrt= 0.40 0.04
        Mrf=-0.45 0.05  Mtf= 0.67 0.05
       Principal Axes:
        T  Val=  1.84  Plg= 6  Azm=347
        N       -0.38       47       84
        P       -1.46       42      251
      Best Double Couple:Mo=1.6*10**17
       NP1:Strike= 38 Dip=56 Slip=-151
       NP2:       291      66      -37

PVC    15.96 270 iPc    22 14.20   3.9X
BKM    16.03 270 iPd    22 15.00   3.8X
DZM    17.87 255 iPd    22 33.00   0.6
PAE    24.11  92 eP     23 32.80  -1.4
TVO    24.41  93 eP     23 36.40  -0.7
HNR    25.94 287 eP     23 51.00  -0.1
SVO    26.16 287 P      23 55.00   1.8
TPT    26.36  87 eP     23 50.20  -4.8X
BRS    31.01 247 iPd    24 37.00   0.7
       1.0s     11.00nm          4.5mb
ARMA   32.61 242 iPd    24 50.10  -0.3
       0.7s     79.00nm          5.5mb
RIV    33.94 236 eP     25 01.00  -0.6
CNB    35.82 235 iPd    25 17.50   0.0
       0.7s    122.00nm          5.7mb
CAN    36.10 235 iPd    25 19.40  -0.4
BWA    36.29 237 iPd    25 18.70  -2.7X
CTA    36.64 261 iPd    25 24.00  -0.5
       0.7s    143.84nm          5.7mb
                 i     26 08.50 208kmX
                 e     26 55.00
OLP    38.48 250 eP     25 39.20  -0.6
TOO    39.49 233 iPd    25 47.90  -0.1
       0.6s    110.00nm          5.6mb
STK    41.34 242 iPd    26 03.20   0.0
       0.6s     45.30nm          5.2mb
ADE    44.20 239 eP     26 25.00  -1.4
WB2    47.79 259 iPd    26 53.50  -1.2
       0.6s    472.70nm          6.1mb X
                eS     33 32.60
WRA    47.81 259 P      26 53.80  -1.0
       0.6s     77.10nm          5.3mb
ASPA   47.86 254 iPd    26 54.20  -1.0
       1.0s    989.10nm          6.2mb X
     Z  22s      0.30um          4.2Msz
                iS     33 33.20
GUA    50.74 306 eP     27 18.40   1.2
       0.7s    153.42nm          5.7mb
GUMO   50.80 306 eP     27 18.00   0.3
       0.9s    169.10nm          5.6mb
PJG    50.80 306 eP     27 18.20   0.5
MTN    52.10 268 eP     27 26.00  -1.5
       0.4s    167.00nm          6.0mb
FORT   52.81 245 eP     27 31.30  -1.2
       0.5s     53.00nm          5.4mb
KNA    53.72 264 eP     27 37.70  -1.6
       0.5s    244 00nm          6.1mb X
WARB   54.25 251 eP     27 35.00  -8.2X
SWI    55.58 282 ePd    27 52.50  -0.3
MBL    61.08 256 eP     28 29.00  -1.8
       0.4s     25.00nm          5.3mb
MEEK   61.37 249 eP     28 31.00  -1.7
CSY    67.11 205 eP     29 09.50   0.4
       0.8s     28.70nm          5.1mb
KAKJ   68.92 322 P      29 21.20   0.6
CHJJ   69.50 321 P      29 24.90   0.7
ADK    69.98 359 P      29 25.20  -1.5
       0.6s     25.80nm          5.1mb
                pP     30 13.00 202km
MAT    70.30 321 (P)    29 28.00  -1.1
       0.7s     14.38nm          4.8mb
                eS     39 10.00
MTMJ   70.57 321 P      29 30.80   0.0
TSRJ   70.98 319 P      29 34.00   0.8
SPA    71.74 180 iPd    29 38.10   0.6
       1.0s    100.00nm          5.5mb
CVP    71.78 296 ePd    29 39.00   0.7

BAG    72.28 295 eP     29 42.00   0.6
BCH    74.44  44 P      29 53.40  -0.2
                pP     30 38.90 189km
ARN    74.81  42 P      29 56.40   0.9
HMR    75.14  41 P      29 59.30   2.0
ISA    75.79  44 P      30 01.20   0.0
       0.9s     11.41nm          4.6mb
                pP     30 46.80 189km
CMB    75.95  42 P      30 01.50  -0.5
       0.9s     11 69nm          4.6mb
                pP     30 47.80 192km
LEM    76.01 267 iPd    30 01.80  -1.2
ORV    76.19  40 P      30 03.30   0.1
                pP     30 52.00 203km
LGPM   76.25  38 P      30 03.20  -0.5
                pP     30 49.30 191km
GSC    76.70  46 P      30 05.70  -0.6
                pP     30 53.20 197km
MRCM   76.93  43 P      30 08.00   0.4
LBFM   77.07  38 P      30 08.00  -0.3
                pP     30 53.40 187km
BONR   77.23  43 P      30 09.50   0.1
                pP     30 58.40 203km
TPNV   78.00  44 P      30 14.20   0.8
TNP    78.00  43 P      30 13.40  -0.1
       1.0s     14.81nm          4.7mb
                pP     30 59.20 188km
KDC    78.10  12 P      30 12.00  -1.3
       1.1s     24.78nm          4.9mb
                pP     30 58.50 192km
TUC    79.39  51 P      30 21.40   0.4
       1.2s     19.33nm          4.7mb
                pP     31 07.90 191km
SHW    79.95  34 P      30 23.80   0.1
VGB    80.31  35 P      30 25.00  -0.5
                pP     31 14.20 202km
ARUT   80.33  45 P      30 26.30   0.3
LON    80.54  34 P      30 26.20  -0.5
                pP     31 14.80 200km
GMW    80.54  33 P      30 27.10   0.5
                pP     31 14.60 195km
SVW    80.71   9 P      30 26.30  -1.0
       0.9s     15.86nm          4.7mb
                pP     31 13.80 195km
SLKM   81.11  12 P      30 28.00  -1.3
                pP     31 16.30 198km
MCW    81.25  32 P      30 29.20  -1.1
                pP     31 17.70 199km
CRP    81.44  11 P      30 28.80  -2.4
                pP     31 17.20 198km
MSU    81.56  45 P      30 33.10   0.7
                pP     31 19.90 191km
PMR    82.32  12 P      30 34.30  -1.2
       1.6s     75.50nm          5.2mb
                pP     31 22.10 195km
TTA    82.39   9 P      30 35.60  -0.4
       1.1s     12.80nm          4.6mb
                pP     31 22.50 191km
KLU    82.90  14 P      30 37.10  -1.6
                pP     31 25.00 196km
SRU    82.97  45 P      30 39.60   0.0
                pP     31 22.30 172kmX
DAU    83.15  44 P      30 40.80   0.1
                pP     31 28.80 196km
LTX    83.47  56 P      30 41.50  -0.8
PV09   83.61  46 P      30 43.00   0.0
                pP     31 31.00 196km
ALQ    83.82  50 P      30 44.40   0.4
       1.0s     13.76nm          4.6mb
                pP     31 30.60 188km
PV08   83.98  46 P      30 44.50  -0.4
                pP     31 32.80 197km
MAW    84.52 199 P      30 48.00   1.3
       1.1s     54.35nm          5.2mb
LRM    85.24  38 eP     30 50.90  -0.1
                e      31 39.90 199km
BW06   85.45  42 P      30 50.60  -1.4
       0.9s     11.49nm          4.7mb
                pP     31 38.30 194km
FBA    85.58  11 P      30 50.70  -1.2
       0.9s     35.85nm          5.2mb
                pP     31 38.40 193km
IMA    85.70   9 P      30 51.80  -0.8
       1.2s     14.15nm          4.6mb
                pP     31 40.70 199km
IPM    85.80 276 ePc    30 55.10   1.0
       0.8s    151.10nm          5.9mb
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ILT 86.07 359 iPc 30 54.00 -0.1
1.4s 13 00nm 4.6mb
GOL 86.76 46 P 30 58.10 -0.4
0 8s 5.73nm 4.5mb
pP 31 45.90 193km
RSSD 89.62 43 P 31 11.60 -0.3
1.0s 9.93nm 4.7mb
pP 31 58.80 190km
NST 90.20 286 eP 31 17.80 3.0X
NVL 90.97 182 iPd 31 17.50 0.1
1.0s 39.00nm 5.4mb
KMI 91.00 296 Pd 31 21.00 2.3
1.5s 70.00nm 5.5mb
INK 91.49 14 eP 31 20.50 0.8
1.2s 10.00nm 4.7mb
CHTO 92.28 289 eP 31 25.80 1.4
MIAR 93.38 55 P 31 29.30 0.2
0.9s 4.93nm 4.6mb
pP 32 16.90 191km
YKA 93.39 24 eP 31 27.00 -1.6
1.0s 4.40nm 4.6mb
LZH 93.81 307 P 31 33.50 2.2
1.5s 40.00nm 5.3mb
FVM 96.90 52 P 31 44.30 -0.8
0.9s 9.01nm 5.1mb
pP 32 32.20 192km
TIK 97.46 345 eP 31 46.00 -0.9
e 35 43.00
MAIO 129.13 302 iPKPc 37 22.00 0.3
e 39 33.00
NUR 135.65 346 ePKP 37 33.00 -0.1
OBN 136 19 334 ePKP 37 33.00 -1.4
1.0s 14.00nm
NB2 137 16 356 PKP 37 35.10 -1.0
1 3s 7.30nm
HFS 137.84 354 ePKP 37 24.60 -12.7X
0.5s 0.80nm
NAI 143 19 241 iPKPd 37 49.00 0.5
1 0s 1556.00nm
KIS 145.40 331 ePKP 37 50.00 -1.0
1.2s 300.00nm
HCG 145.44 9 ePKP 37 50.50 -0.4
1 2s 27.00nm
WIT 145 61 358 ePKP 37 53.00 1.9
e 38 43.00
HTR 145.73 9 ePKP 37 51.60 0.2
1.2s 16.00nm
HAE 145.88 8 ePKP 37 52.10 0.5
OJC 146.12 343 ePKP 37 52.90 0.8
i 37 54.00
i 38 44.80
GAZ 146.19 310 ePKP 37 53.20 0.6
KSP 146.40 347 ePKPc 37 53.50 0.9
1.0s 46.00nm
ic 37 55.50
e 38 11.90
e 38 44.50
WTS 146.43 358 ePkP 37 55.00 2.5X
1.0s 15.40nm
e 38 46.00
CLL 146.54 351 iPKPc 37 53.20 0.5
1.3s 61 00nm
epP 38 45.00
BRG 146.82 350 ePKP 37 53.60 0.4
1.4s 48 00nm
e 37 56.20
SPC 146.91 342 ePKP 37 54.10 0.4
epPKP 38 45.60
VRI 147.24 332 ePKPd 37 50.00 -4.1X
MOX 147.39 352 ePKP 37 55.10 1.0
1.6s 61.00nm
e 37 57.50
e 38 45.90
BNS 147.44 358 i(PKP) 37 57.20 3.0X
ed 38 47.40
PRU 147.56 349 PKP 37 57.20 2.8X
1.2s 31.10nm
e 38 15 90
i 38 49.30
e 39 14.50
UCC 147.65 1 PKP 37 59.00 4.5X
e 38 49.00
ENN 147.68 359 ePKP 37 56.00 1.5
1.0s 11.00nm
e 38 49.00
SNF 147.93 1 PKPc 37 59.60 4.6X
ec 38 50.20

TNS 148.11 356 ePKP 38 01.60 6.2X
DOU 148.35 1 PKP 37 59.60 3.9X
e 38 59.60
GRF 148.37 352 iPKPc 37 56.80 1.0
e 38 00.10
CMP 148.45 333 ePKPd 38 06.00 10.0X
KHC 148.56 349 PKP 37 57.00 0.9
1.5s 44.50nm
e 38 01.40
e 38 52.50
e 39 13.50
WET 148.67 350 iPKPc 38 10.18 13.9X
ZST 148.69 344 ePKP 37 57.40 1.1
e 38 53.20
SRO 148.71 343 ePKP 38 02.00 5.7X
WLF 148.78 359 iPKPc 38 02.05 5.7X
1.7s 43.90nm
ic 38 21.55
ic 38 52.97
HRI 148.81 304 ePKP 37 55.90 -1.2
GEC2 148.81 349 PKP 37 56.70 0.1
1.1s 3.23nm
e 38 01.70
e 38 06.40
e 38 19.60
e 38 51.20
e 38 54.20
VKA 148.82 345 ePKP 38 00.00 3.5X
EYL 149.12 321 ePKP 37 57.00 -0.4
FLN 149.36 7 ePKP 37 57.50 0.2
1.2s 15.75nm
LDF 149.57 7 ePKP 37 57.80 0.2
1.2s 16 65nm
JVI 149.57 302 ePKP 37 57.60 -0.6
GRR 149.68 8 ePKP 37 58.20 0.4
FUR 149 86 352 ePKP 38 03.50 5.4X
CSS 149.98 309 ePKP 38 03.70 5.0X
WLS 149.98 357 PKP 37 57.75 -0.6
LPF 150.00 8 ePKP 37 58.60 0.4
BHG 150.05 349 ePKP 38 04.10 5.7X
ECH 150.19 357 PKP 37 58.18 -0.4
VITF 150.23 359 PKP 37 59.69 1.1
FEL 150 48 356 PKP 37 59.97 0.8
MOF 150.55 357 PKP 38 00.25 1.0
SLE 150.56 355 ePKPc 38 05.60 6.4X
KBA 150.58 348 iPKPd 38 04.90 5.5X
0.6s 8.20nm
i 38 22.60
i 38 55.70
BSF 150.59 358 ePKP 37 59.50 0.2
MBH 150.61 298 ePKP 38 00.20 0.3
WATA 150.63 351 iPKPd 38 05.20 5.8X
i 38 24.20
i 38 55.30
i 38 57.50
MOTA 150.69 352 iPKPc 38 05.00 5.4X
1.1s 41.50nm
i 38 24.20
i 38 51.00
i 38 57.10
WTTA 150.69 351 iPKPd 38 05.00 5.4X
0.5s 21.80nm
i 38 24.80
i 38 55.50
i 38 57.90
SQTA 150.80 351 iPKPd 38 05.70 6.0X
1.3s 46.20nm
i 38 24.70
i 38 58.10
LOMF 151.07 358 PKP 37 59.63 -0.4
PTJ 151.11 344 ePKP 38 06.10 6.0X
HYF 151.12 3 ePKP 38 01.10 1.1
RBL 151.15 348 PKPc 38 06.20 6.1X
FVI 151.15 349 PKP 38 06.10 6.1X
LOR 151.17 2 ePKP 38 00.80 0.7
1.3s 18.05nm
SSF 151.36 2 ePKP 38 00.90 0.6
1.3s 22.00nm
LBF 151.46 2 ePKP 38 01.10 0.5
1.5s 17.25nm
OSS 151.46 353 ePKPc 38 07.60 6.9X
MFF 151.52 8 ePKP 38 01.10 0.5
AVF 151.63 2 ePKP 38 01.10 0.4
1.1s 4.15nm
SMF 151.79 2 ePKP 38 01.50 0.5
1.4s 17.00nm
BGF 151.84 3 ePKP 38 01.50 0.4

CTI 151.87 350 PKPc 38 07.50 6.2X
LSF 152.05 5 ePKP 38 01.60 0.2
1.6s 24.25nm
TCF 152.07 4 ePKP 38 01.90 0.4
1.4s 8.70nm
TMA 152.17 354 ePKPd 38 08.80 7.0X
MMK 152.30 356 ePKPc 38 10.60 8.5X
DIX 152.31 357 ePKPd 38 10.20 8.1X
AGO 152.36 3 PKP 38 02.87 1.0
PLDF 152.46 2 PKP 38 03.16 1.1
PYM 152.65 3 PKP 38 03.57 1.2
SKO 152.66 333 ePKP 37 55.00 -7.4X
i 38 02.50
OHR 153.63 333 ePKP 38 04.00 0.2
BCAO 160.89 225 iPKPc 38 14.00 0.7
0.7s 27.00nm
ic 38 57.50
S.D. = 0.9 on 142 of 180 obs.

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* MAY 29, 1993 00h 19m 05.24±19.53s
18.174 N ±123.km 59.466 W ±100.km
DEPTH = 33.0km (normal)
NORTH ATLANTIC OCEAN (402)

MGG 2.86 219 eP 19 49.20 -0.3
DOG 2.96 224 eP 19 51.60 0.5
MGH 3.00 242 eP 19 51.50 -0.1
PAG 3.01 225 eP 19 51.60 -0.1
CRM 3.67 202 eP 20 01.10 0.0
S 20 39.90
FDF 3.78 206 eP 20 02.50 -0.2
S 20 41.90
MVM 3.85 201 eP 20 03.88 0.2
BIM 3.95 203 eP 20 05.12 0.0
S.D. = 0.3 on 8 of 8 obs.

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* MAY 29, 1993 01h 02m 55.20± 1.24s
9.637 S ±17.9km 117.918 E ±11.2km
DEPTH = 33.0km (normal)
4.6mb (3 obs.)
SUMBAWA REGION, INDONESIA (285)

LEM 10.57 285 ePd 05 27.50 -0.2
MBL 11.60 171 iPd 05 40.50 -1.1
0.2s 24.00nm 6.0mb X
eS 07 36.00
KNA 12.20 121 eP 05 49.50 -0.2
MTN 13.35 105 eP 06 03.00 -1.9
0.4s 56.00nm 5.9mb X
eS 08 22.00
MEEK 16.92 178 eP 06 51.00 -0.2
i 06 55.00
WARB 18.42 154 iPc 07 06.00 -3.8X
eS 10 18.00
WRA 18.88 125 P 07 25.80 10.3X
0.6s 2.00nm
WB2 18.89 125 iPc 07 16.30 0.7
eS 10 35.40
ASPA 20.68 134 iPd 07 36.60 1.4
1.1s 39.80nm 4.7mb
Z 21s 0.20um 3.5Msz
iS 11 20.40
RKG 24.83 182 eP 08 38.00 22.1X
eS 12 47.00
STK 31.16 139 eP 09 14.90 1.5
0.4s 1.50nm 4.2mb
ARMA 37.59 128 iPc 10 13.10 4.3X
0.8s 9.00nm 4.7mb
S.D. = 1.4 on 8 of 12 obs.

% MAY 29, 1993 01h 08m 05.53± 0.71s
39.953 N ± 4.9km 22.560 E ± 6.7km
DEPTH = 10.0km (geophysicist)
GREECE (364)

LIT 0.16 340 ePg 08 08.62 -0.6
eSg 08 11.62
THE 0.75 24 ePg 08 19.80 -0.3
PAIG 0.86 91 ePg 08 21.74 -0.4
eSg 08 34.70
AGG 0.95 191 ePg 08 23.74 0.2
GRG 1.01 353 ePg 08 24.86 0.2
eSg 08 38.06
SOH 1.06 35 ePg 08 25.82 0.3
eSg 08 40.54
OUR 1.15 70 iPg 08 27.02 -0.1
eSg 08 43.37

29d 01h

KNT 1.23 12 ePb 08 28.82 0.3
eSb 08 46.20
SRS 1.40 34 ePb 08 31.50 0.4
S.D. = 0.4 on 9 of 9 obs.

% MAY 29, 1993 01h 17m 43.36± 0.81s
39.702 N ± 6.8km 28.658 E ± 7.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

DST 0.10 194 iPg 17 45.90 -0.2
iSg 17 48.90
KCT 0.59 337 iPg 17 54.90 -0.5
eSg 18 02.90
EDC 0.89 317 iPg 18 00.00 -0.4
eSg 18 12.00
YLV 1.02 32 ePn 18 02.40 -0.3
KGT 1.28 306 iPn 18 07.90 0.8
ISK 1.40 13 ePn 18 09.00 0.2
EYL 1.44 53 ePn 18 10.00 0.4
S.D. = 0.6 on 7 of 7 obs.

• MAY 29, 1993 01h 31m 44.41± 0.57s
27.329 S ±11.7km 66.162 E ±14.5km
DEPTH = 10.0km (geophysicist)
5.2mb (6 obs.)
SOUTH INDIAN OCEAN (425)

PAF 22.21 173 eP 36 53.00 10.6X
eS 40 56.00
NVL 52.93 200 eP 41 03.00 0.4
BCAO 55.75 297 ePd 41 22.00 -2.0
1.0s 20.00nm 5.1mb
ic 41 30.10
ic 41 37.00
DMN 57.57 20 P 41 38.00 1.0
KKN 57 80 20 P 41 38.80 0.3
GKN 57.80 19 P 41 39.20 0.7
GUN 58.09 21 P 41 40.80 0.0
ASPA 60.58 103 iPd 41 56.70 -1.0
0.7s 30.30nm 5.5mb
WRA 62.23 99 P 42 08.40 -0.5
0.8s 20.10nm 5.4mb
SPA 62.82 180 iPd 42 13.70 1.2
1.0s 30.00nm 5.4mb
STK 64.51 114 iPd 42 22.70 -1.0
1.0s 3.10nm 4.5mb
QLP 68.41 110 eP 42 48.40 -0.3
ARMA 73.09 116 eP 43 17.80 0.7
1.0s 15.00nm 5.0mb
GAC 144.55 311 ePKP 51 24.00 1.4
YKA 144.83 1 ePKP 51 21.70 -0.8
1.0s 7.00nm
FCC 145.70 342 ePKP 51 33.50 9.4X
EEO 146.57 315 ePKP 51 33.00 7.0X
ULM 153.31 334 ePKP 51 47.50 11.4X
S.D. = 1.1 on 14 of 18 obs.

MAY 29, 1993 01h 38m 04.07± 0.34s
15.927 N ± 3.3km 61.198 W ± 6.6km
DEPTH = 106.2 ± 2.4 km
4.3mb (6 obs.)
LEEWARD ISLANDS (92)
MD 4.3 (TRN). Felt (III) on Guadeloupe, Marie Galante and La Desirade; (II) on Martinique.

MGG 0.11 266 iPd 38 19.35 -0.6
DOG 0.42 285 ePd 38 20.47 0.2
PAG 0.47 282 ePd 38 20.83 0 2
BTG 0.51 277 eP 38 21.10 0.4
S 38 32.40
SEG 0.56 328 iPd 38 20.35 -0.8
S 38 30.60
MDN 0.64 198 iP 38 21.97 0.2
DPMT 0.69 195 iP 38 22.57 0.4
FDF 1.19 178 iPc 38 27.24 -0.1
S 38 43.60
CRM 1.20 167 iPc 38 27.19 -0.2
MGH 1.26 309 eP 38 28.70 0.6
BPA 1.28 330 iP 38 28.34 -0.1
MVM 1.40 168 iPc 38 29.65 -0.1
BIM 1.41 175 iPc 38 30.12 0.2
S 38 49.50
NEV 1.78 313 iP 38 35.11 0.5
eS 38 57.56
CPB 1.81 341 eP 38 34.92 0.1
SLW 1.91 172 eP 38 36.15 -0.1
eS 38 59.77
SLB 2.09 176 iP 38 38.54 -0.1
SVV 2.59 180 iP 38 45.34 0.1
eS 39 16.11
SVB 2.64 181 iP 38 45.90 0.0
FCV 2.75 181 iP 38 46.99 -0.4
eS 39 20.43
GRW 3.77 187 iP 39 00.82 -0.5
CPD 4.98 296 P 39 17.40 -0.4
LPR 5.06 299 P 39 18.80 -0.1
TCE 5.23 186 eP 39 21.72 0.5
TRN 5.25 182 eP 39 21.99 0.4
TBH 5.41 179 eP 39 23.91 0.1
CLLP 5.57 293 P 39 25.20 -0.8
TPP 5.58 183 eP 39 22.66 -3.5X
PORP 5.62 293 P 39 26.50 -0.2
LRS 5.89 294 P 39 31.00 0.6
GUAN 7.35 217 eP 39 50.80 0.3
MIAR 34.45 309 iPc 44 43.21 -0.3
UYO 34.97 307 iPc 44 47.80 -0.1
LTX 41.18 296 eP 45 38.82 -1.1
ULM 44.19 328 eP 46 06.00 2.0
ALO 44.62 304 eP 46 07.84 0.0
0.5s 1.40nm 4.0mb
RSSD 45.79 317 iPc 46 17.13 0.1
0.5s 1.22nm 4.0mb
TUC 47.68 299 eP 46 31.91 0.0
0.9s 7.82nm 4.5mb
BW06 49.06 313 iPd 46 42.37 -0.2
0.8s 6.21nm 4.6mb
FCC 49.17 338 eP 46 50.00 7.1X
DAU 49.63 310 eP 46 47.13 0.0
MSU 49.88 307 ePc 46 49.22 0.3
LRM 51.97 316 eP 47 04.90 0.2
YKA 59.48 334 eP 47 56.40 -1.5
0.5s 4.00nm 4.8mb
INK 68.79 338 eP 48 59.00 0.7
0.5s 1.00nm 3.9mb
S.D. = 0.6 on 43 of 45 obs.

? MAY 29, 1993 01h 57m 19.73± 3.81s
39.380 N ±23.3km 23.857 E ±26.6km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

PAIG 0.56 346 iPg 57 29.22 -1.9
eSg 57 37.12
OUR 0.96 6 iPg 57 37.10 -0.8
eSg 57 50.54
AGG 1.24 254 iPb 57 41.85 -0.9
LIT 1.28 305 ePb 57 43.60 0.2
SOH 1.49 345 ePb 57 46.82 0.2
iSb 58 06.96
SRS 1.75 353 ePb 57 51.18 0.9
KNT 1.93 338 ePb 57 54.02 1.2
S.D. = 1.4 on 7 of 7 obs.

MAY 29, 1993 02h 00m 41.02± 1.41s
20.681 S ±14.2km 179.171 W ±11.8km
DEPTH = 651.2 ± 17.1 km
4.4mb (18 obs.)
FIJI ISLANDS REGION (181)

DZM 13.47 262 iPd 03 34.10 0.1
ARMA 28.00 244 eP 05 45.00 -0.1
0.5s 6.00nm 4.5mb
QLP 33.96 253 eP 06 35.30 0.3
TOO 34.91 233 iPc 06 42.80 0.0
0.5s 9.00nm 4.6mb
STK 36.73 244 eP 06 58.20 0.5
0.5s 5.40nm 4.3mb
ASPA 43.41 257 eP 07 51.10 0.1
1.0s 36.70nm 4.8mb
iPcP 09 24.60
eS 13 36.10
WB2 43.48 262 iPc 07 51.30 -0.2
0.5s 5.00nm 4.2mb
iPcP 09 24.70
WRA 43.49 262 P 07 51.50 -0.1
0.6s 8.10nm 4.3mb
FORT 48.22 247 eP 08 26.00 -1.3
WARB 49.73 253 eP 08 31.50 -7.0X
MAT 69.71 324 eP 10 50 00 0.5
0.7s 7.53nm 4.2mb
ADK 72.28 2 eP 11 03.30 -0.6
0.6s 38.40nm 5.1mb
SMY 73.33 356 e(P) 10 57.20 -12.6X
CMB 80.34 43 eP 11 47.82 0.0
0.9s 4.86nm 4.0mb
LGPM 80.55 40 eP 11 49.76 0.8
LBFM 81.37 40 eP 11 53.84 0.6
GLA 81.38 50 eP 11 53.90 0.7
BONR 81 65 44 eP 11 55.43 0.7
TNP 82.43 45 eP 11 58.93 0.4
0.7s 5.39nm 4.2mb
TPNV 82.45 46 (P) 11 58.70 0.0
SVW 83 69 11 eP 12 03.80 -0.3
PMS 85.05 14 eP 12 10.60 0.0
0.9s 16.10nm 4.7mb
TTA 85.31 10 eP 12 12.10 0.2
SRU 87.44 46 eP 12 22.51 -0.2
LTX 88.08 58 eP 12 24.58 -1.1
ALO 88.37 52 ePc 12 27.25 0.2
1.0s 2.69nm 4.0mb
epP 14 20.20 505kmX
KMI 88.46 297 Pc 12 31.00 3.3X
2.0s 50.00nm 4.9mb
IMA 88.61 10 eP 12 27.47 0.1
0.7s 2.71nm 4.1mb
FBA 88.66 13 ePd 12 26.64 -0.8
0.7s 9.43nm 4.7mb
BW06 89.85 44 ePd 12 33.47 -0.3
0.7s 4.72nm 4.5mb
RSSD 94.05 44 ePd 12 52.53 -0.4
0.5s 1.69nm 4.4mb
YKA 97.14 25 eP 13 05.30 -0.9
0.7s 0.80nm 4.1mb
CBM 119.09 47 (PKP) 18 17.39 -1.6
HNME 119.18 48 (PKP) 18 19.33 0.1
KAF 135.02 343 ePKP 18 37.60 -11.4X
NUR 136.80 343 ePKP 18 41.60 -10.8X
NB2 139.02 352 PKP 18 48.20 -8.3X
0.7s 2.50nm
HFS 139.54 350 ePKP 18 49.60 -7.8X
0.3s 5.20nm
EDR 143.73 3 ePKP 19 03.50 -1.3
1.2s 16.00nm
EDU 144.07 4 ePKP 19 05.20 -0.2
1.4s 21 00nm
ELO 144.10 4 ePKP 19 04.60 -0.8
EAB 144.33 5 ePKP 19 05.70 -0.1
ESY 144.72 3 ePKP 19 07.00 0.5
1.3s 12.00nm
EAU 144.74 4 ePKP 19 07.60 1.1
1.2s 12.00nm
EBL 144.84 4 ePKP 19 07.20 0.5
EKA 145.27 4 PKPc 19 08.80 1.4
0.7s 9.00nm
KAS 145.35 314 iPKPd 19 11.60 3.5X
DMU 146.31 8 ePKP 19 11.80 2.7X
CLI 146.37 326 iPKPc 19 13.50 4.0X
HRI 146.61 299 ePKP 19 14.60 4.2X
DCN 146.80 9 ePKP 19 13.20 3.3X
DLF 146.95 8 ePKP 19 13.40 3.3X
VRI 147.11 326 iPKPd 19 15.00 4.3X
DSI 147.26 296 ePKP 19 16.00 4.6X
KSP 147.53 342 ePKP 19 12.00 0.8
i 19 15.50
SPC 147.60 336 e(PKP) 19 17.30 5.7X
ISR 147.68 325 ePKP 19 07.50 -4.2X
MLR 147.77 326 ePKPd 19 16.50 4.6X
CLL 147.97 346 iPKPd 19 17.10 5.2X
0.9s 26.00nm
i 19 22.30
CSS 148.09 303 ePKP 19 17.50 4.9X
RMN 148.09 295 ePKP 19 18.30 5.4X
BRG 148.15 344 iPKP 19 17.20 5.0X
1.2s 22.00nm
i 19 22.60
WTS 148.40 353 iPKPc 19 18.00 5.5X
e 19 23.50
PRU 148.79 343 iPKPd 19 18.80 5.6X
1.0s 17.10nm
i 19 25.80
MOX 148.91 347 ePKPd 19 19.20 5.9X
e 19 25.90
BUD 149.47 335 ePKP 19 20.00 5.8X
ZST 149.58 338 ePKP 19 20.70 6.3X
e 19 29.70
ENN 149.71 354 ePKP 19 21.00 6.5X
0.9s 8.20nm

			e	19	29.00	
KHC	149.84	343	PKP	19	21.40	6.6X
			e	19	30.50	
GRF	149.89	346	ePKP	19	21.80	6.9X
			e	19	30.80	
TNS	149.91	350	ePKPd	19	21.50	6.6X
GEC2	150.06	343	e(PKP)	19	17.80	2.5X
	0.8s		0.80nm			
DOU	150.50	355	PKPc	19	23.00	7.3X
WLF	150.77	353	iPKPc	19	24.03	7.9X
FUR	151.31	345	iPKPd	19	24.70	7.6X
			i	19	36.30	
KBA	151.77	342	iPKPc	19	24.00	6.1X
CDF	151.85	351	ePKP	19	25.70	7.8X
	0.7s		7.40nm			
FLN	151.96	2	ePKP	19	25.50	7.6X
	0.5s		5.60nm			
WATA	152.01	344	iPKPd	19	25.80	7.6X
			i	19	39.30	
WTTA	152.07	344	iPKPd	19	26.20	7.8X
	0.3s		9.70nm			
			i	19	39.80	
MOTA	152.12	345	iPKPd	19	26.00	7.6X
			i	19	36.60	
			i	19	39.70	
LDF	152.14	1	ePKP	19	25.70	7.5X
	0.4s		3.05nm			
SQTA	152.21	345	iPKPd	19	26.30	7.8X
	0.6s		5.40nm			
GRR	152.32	2	ePKP	19	26.40	8.0X
	0.4s		3.40nm			
HAU	152.38	352	ePKP	19	26.20	7.6X
	0.4s		2.60nm			
LPF	152.67	3	ePKP	19	27.20	8.3X
	0.5s		5.70nm			
LOR	153.36	355	ePKP	19	28.90	9.0X
	0.8s		6.70nm			
SSF	153.59	356	ePKP	19	29.80	9.6X
MFF	154.13	2	ePKP	19	30.30	9.4X
	0.6s		3.45nm			
BGF	154.14	357	ePKP	19	30.50	9.6X
8CAO	156 39	229	iPKPd	19	25.50	0.5
	0.4s		10.00nm			
			ic	19	58.90	

S.D. = 0.7 on 41 of 91 obs.

% MAY 29, 1993 02h 21m 29.49± 0.79s
43.424 N ± 7.3km 12.400 E ± 6.7km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

CRE	0.38	302	P	21	37 70	0.3
			eSg	21	43.70	
ARV	0.40	79	P	21	37.30	-0.4
			eSg	21	43.70	
ASS	0.40	152	P	21	38.00	0.3
			eSg	21	44.90	
RSM	0.50	4	P	21	40.40	0.7
SFI	0.64	321	P	21	41.70	-0.5
			eSg	21	51.60	
PGD	0.67	313	P	21	42.60	-0.3
			eSg	21	53.90	
MNS	1.06	169	P	21	51.30	1.8X
			eSg	22	07.20	

S.D. = 0.6 on 6 of 7 obs.

MAY 29, 1993 03h 05m 14.14± 0.96s
36.892 N ± 9.2km 21.245 E ± 4.5km
DEPTH = 10.0km (geophysicist)
3.4mb (1 obs.)
SOUTHERN GREECE (368)
MD 3.4 (ATH).

VLI	1.37	97	ePn	05	39.20	0.0
			eSn	05	59.00	
VLS	1.38	338	ePb	05	39.80	0.3
AGG	2.29	22	eP	05	54.84	2.2
IGT	2.73	345	eP	05	58.96	0.1
VAM	2.81	121	ePb	06	12.40	12.4X
LIT	3.35	17	eP	06	06.76	-0.8
PAIG	3.58	32	eP	06	10.60	-0.3
FNA	3.89	1	eP	06	16.44	1.2
OUR	4.05	31	eP	06	20.64	3.2X
GRG	4.16	12	eP	06	17 92	-1.1
OHR	4.23	355	ePn	06	19.70	-0.4
SOH	4.25	22	eP	06	20.20	-0.3
SOI	4.29	287	P	06	21 00	0.0
LCI	4 30	324	P	06	19.40	-1.6
KNT	4.45	16	eP	06	22.76	-0.5
VAY	4.54	13	ePn	06	26.00	1.6
ROI	4.55	307	P	06	24.60	-0.1
SRS	4.60	23	eP	06	24.08	-1.2
CZI	4.65	301	P	06	26.60	0.5
ATN	4.77	287	P	06	27.50	-0.3
CSI	4.84	308	P	06	30.40	1.6
SKO	5.08	2	ePn	06	27.00	-5.0X
BRT	5.08	323	Pd	06	31.30	-0.8
MMN	5.10	308	P	06	31.80	-0.5
MNO	5.32	283	P	06	35.70	0.0
MGR	5.51	308	P	06	37.90	-0.4
SGO	5.91	310	P	06	44.00	0.2
DUI	7.10	314	P	07	00.60	0.0
SDI	7.50	312	P	07	06.60	0.4
HFS	23.76	351	eP	10	21.30	-5.9X
	0.4s		0.50nm			3.4mb

S.D. = 0.9 on 26 of 30 obs.

? MAY 29, 1993 03h 22m 41.64± 4.44s
21.485 S ±26.6km 68.678 W ±49.4km
DEPTH = 130.0km (geophysicist)
CHILE-BOLIVIA BORDER REGION (124)

YJA	3.03	104	ePc	23	29.20	-0.5
HJA	3.48	120	eP	23	35.70	0.4
CNCB	4.69	8	P	23	53.10	1.0
CCH	4.73	31	P	23	52.70	0.2
LPB	4.96	6	eP	24	00.00	4.4X
ZOBO	5.21	6	P	23	58.10	-1.1

S.D. = 1.1 on 5 of 6 obs.

MAY 29, 1993 04h 37m 30.93± 0.33s
37.223 N ± 3.1km 117.756 W ± 3.0km
DEPTH = 5.0km (geophysicist)
CALIFORNIA-NEVADA BORDER REGION (40)
ML 2.5 (GS).

BHPR	0.59	278	P	37	42.36	-0.4
BCKR	0.68	314	P	37	44.72	0.1
CASR	0.72	299	P	37	45.52	0.1
MRCM	0.75	307	iPc	37	45.85	0.0
			eS	37	55.95	
ORC	0.83	300	P	37	47.47	-0.1
BONR	0.85	329	eP	37	48.17	0.2
CLkR	0.93	294	P	37	49.00	-0.3
TNP	0.96	26	ePc	37	50.83	1.1
			eS	38	04.68	
MCSM	1.01	296	P	37	50.68	0.0
MEMM	1.04	296	ePc	37	50.97	0.0
			eS	38	04.63	
MMPM	1.08	291	eP	37	51.28	-0.7
			eS	38	04.50	
TPNV	1.24	102	eP	37	54.75	0.3
VPEM	1.27	182	P	37	53.93	-1.2
WSHM	1.60	172	P	38	01.32	1.3
WASM	1.62	204	P	38	00.79	0.4
WBSM	1.71	191	P	38	02.44	0.7
KVN	1.84	352	ePn	38	04.61	0.9
PHBM	2.11	243	P	38	08.17	0.9
MSTM	2.21	289	P	38	11.26	2.4X
CMB	2.24	292	ePn	38	09.18	-0.1
			ePg	38	11.51	
MCUM	2.39	289	P	38	14.36	2.9X
ABL	2.65	207	(Pn)	38	14.79	-0.5
BCH	2.77	223	(Pn)	38	16.92	0.0
ARN	3.01	274	(Pn)	38	20.07	-0.2
ARUT	3.48	79	ePn	38	26.45	-0.5
			ePg	38	36.80	
MSU	4.60	72	(Pn)	38	41.29	-1.7
			ePg	38	57.12	

S.D. = 0.7 on 24 of 26 obs.

% MAY 29, 1993 04h 46m 42.61± 1.03s
44.272 N ± 6.4km 8.336 E ± 7.6km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.9 (GEN).

FIN	0.11	235	P	46	45.64	0.1
			S	46	47.36	
PCP	0.31	29	P	46	49.07	0.0
			S	46	53.40	
ROB	0.33	274	P	46	49.37	-0.2
			S	46	54.01	
IMI	0.48	222	P	46	52.30	-0.2
			S	46	58.98	
ENR	0.66	266	P	46	55.28	-0.5
			S	47	04.02	
STV	0.73	268	P	46	57.74	0.8
			S	47	06.40	
PZZ	0.92	285	P	47	00.26	0.0
			S	47	11.98	
BHB	0.95	307	P	47	00.90	0.1
RSP	1.17	319	P	47	04.31	-0.2
			S	47	20.03	

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

MAY 29, 1993 05h 25m 36.54± 0.51s
39.633 N ± 5.8km 20.435 E ± 3.7km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
MD 3.1 (ATH).

IGT	0.13	218	ePg	25	39.26	-0.4
			eSg	25	41.60	
SRN	0.42	307	ePg	25	45.60	0.6
			iSg	25	54.10	
KEK	0.50	279	ePb	25	47.00	0.4
			eSb	25	59.50	
TPE	0.74	334	iPgc	25	52.50	1.5X
VLO	1.10	319	ePg	26	01.30	4.1X
KZN	1.23	56	ePn	25	59.50	0.1
FNA	1.36	32	ePb	26	00.94	-0.6
			eSb	26	19.00	
OHR	1.50	11	ePn	26	04.00	0.4
AGG	1.59	112	ePb	26	04.86	0.0
			eSb	26	28.40	
LIT	1.65	73	ePb	26	05.80	0.1
			eSb	26	28.70	
TIR	1.77	346	ePn	26	06.00	-1.3
GRG	2.00	48	ePn	26	10.66	-0.1
			eSn	26	38.80	
KNT	2.42	50	ePn	26	17.62	0.8
			eSn	26	48.10	
SKO	2.46	18	ePn	26	27.00	9.7X
PAIG	2.52	82	ePn	26	18.14	0.0
OUR	2.81	74	ePn	26	22.46	0.1

S.D. = 0.6 on 13 of 16 obs.

MAY 29, 1993 05h 29m 19.18± 0.47s
50.718 N ± 5.8km 129.875 W ± 5.9km
DEPTH = 10.0km (geophysicist)
3.9mb (14 obs.)
VANCOUVER ISLAND REGION (25)
ML 4.3 (PGC).

HOLB	1.11	93	iPnc	29	41.17	1.1
			eSn	29	57.70	
BPBC	1.46	112	ePnc	29	44.35	-1.2
PHC	1.55	89	ePnc	29	47.65	0.8
			Sn	30	08.70	
EDB	1.96	115	ePn	29	51.03	-1.7
ETB	2.54	121	ePn	29	58.88	-2.1
GDR	2.64	109	ePnc	30	01.53	-1.0
CBB	2.97	102	ePnc	30	07.38	0.2
BTB	3.07	112	iPnc	30	07.73	-1.0
OZB	3.34	120	ePn	30	10.18	-2.3
ALB	3.56	112	ePn	30	14.38	-1.2
SHB	4.02	104	ePnc	30	21.78	-0.4
NAB	4.07	109	ePn	30	21.53	-1.3
PFB	4.13	119	ePn	30	22.05	-1.7
WPB	4.41	101	ePn	30	27.81	0.1
BIB	4.43	105	ePn	30	26.81	-1.1
WHB	4.46	95	ePn	30	29.18	0.8
PGC	4.66	114	ePn	30	29.75	-1.4
SNB	4.76	112	ePn	30	33.38	0.7
VGZ	4.85	116	ePn	30	33.54	-0.3
HNB	4.92	104	ePn	30	35.40	0.5
MCW	5.00	111	eP	30	36.46	0.4
VDB	5.30	106	ePn	30	40.80	0.5
BMW	6.12	131	eP	30	50.90	-0.9
LON	6.65	124	eP	30	58.96	-0.4
SHW	6.80	129	eP	31	01.38	-0.2
VGB	8.01	127	eP	31	18.69	0.4
DPW	8.14	106	eP	31	19.75	-0.5
NEW	8.66	102	eP	31	26.80	-0.6
LGPM	10.96	151	eP	31	59.14	0.0
LRM	12.59	106	eP	32	20.70	-0.6
ORV	12.62	149	eP	32	22.01	0.6
YKA	14.44	29	eP	32	44.00	-1.2
	0.8s		5.40nm			4.2mb
ARN	14.63	153	eP	32	48.87	0.8

29d 05h

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HVU     14.80 121 eP     32 51.28   1.0
BONR    15.18 143 (P)    32 56.35   0.9
                  e      33 01.77
PMR     15.22 323 eP     32 55.10  -0.3
DUG     15.90 125 eP     33 05.12   0.5
        0.9s     8.55nm          3.9mb
                  e      33 09.73
BW06    16.00 112 eP     33 08.33   2.4
        0.9s    13.49nm          4.1mb
TPNV    16.87 139 (P)    33 20.90   3.9X
FBA     17.02 333 (P)    33 17.46  -1.0
        0.8s     2.90nm          3.5mb
                  e      33 24.04
EMUT    17.23 122 (P)    33 22.89   1.3
ARUT    17.43 132 eP     33 24.97   1.0
MSU     17.49 127 eP     33 24.75   0.0
SVW     17.66 316 eP     33 25.78  -0.8
        1.0s    13.18nm          4.0mb
INK     17.74 356 eP     33 29.00   1.6
        1.0s     2.00nm          3.2mb
SRU     17.90 123 eP     33 31.23   1.4
RSSD    18.63 101 eP     33 40.12   1.3
        0.7s     5.54nm          3.9mb
TTA     18.65 321 eP     33 38.32  -0.4
        1.0s     2.71nm          3.4mb
PV09    19.09 122 eP     33 45.02   0.4
PV10    19.23 122 eP     33 46.25   0.0
PV08    19.30 121 eP     33 47.42   0.2
IMA     19.60 331 eP     33 50.35   0.1
        0.9s     2.99nm          3.6mb
GOL     20.38 113 eP     33 59.99   1.1
        0.9s     3 32nm          3.7mb
GLD     20.44 113 eP     34 00.81   1.5
        1.1s    11.16nm          4.1mb
GLA     20.84 142 eP     34 03.30   0.0
ULM     21.53  78 ePd    34 12.90   2.6
FCC     21.94  55 eP     34 23.00   8.8X
ALO     23 17 124 ePd    34 27.95   1.1
        1.0s     5.50nm          4.1mb
TUC     23.17 135 eP     34 26.90   0.1
        0.9s     7.30nm          4.2mb
LTX     29.04 127 eP     35 20.13  -1.4
MIAR    30.84 108 (P)    35 36.92  -0.4
        0.7s     2.01nm          4.1mb
     S.D. = 1.1   on  59 of  61 obs.
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*  MAY  29, 1993  05h 46m 27.06± 4.91s
   33.234 S ±10.6km   70.729 W ±14.0km
   DEPTH =  93.9 ± 45.6 km
 CHILE-ARGENTINA BORDER REGION    (127)

PEL     0.10  22 iP     46 40.49  -0.2
                iS     46 50.38
ROCH    0.35 318 iP     46 41.58  -0.1
                iS     46 52.27
FCH     0.38 104 iP     46 42.30   0.3
                iS     46 53.64
PCH     0 43 155 iP     46 42.01   0.0
                iS     46 53.15
TACH    0.45 203 iP     46 42.06   0.0
                iS     46 53.10
JACH    0.56  12 iP     46 42.96  -0.1
                iS     46 54.84
CHCH    0.70 175 iP     46 44.13  -0.1
                iS     46 57.40
LCCH    0 74 251 iP     46 44.98   0.4
                iS     46 58.39
LNV     0.92 218 iP     46 46.08  -0.3
                (S)    47 00.14
     S.D. = 0.3   on   9 of   9 obs.
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?  MAY  29, 1993  05h 49m 08.50± 2.59s
   29.001 S ±10.6km   71.501 W ±27.6km
   DEPTH = 217.6 ± 53.6 km
 NEAR COAST OF CENTRAL CHILE      (135)

RTBS    3.19 147 e(P)d 50 01.70   0.1
ZON     3.52 137 eP    50 05.50  -0.2
CYA     5.04  85 ePc   50 21.70  -2.8X
                S      51 18.40
ANT     5.36  11 eP    50 28.00  -0.5
FSA     5.67  60 eP    50 33.60   1.1
RFA     6.30 157 ePd   50 41.30   0.6
                S      52 03.00
TCA     6.42 113 ePc   50 41.00  -1.2
                S      51 50.30
SLA     6.85  53 e(P)  50 50.00   2.3X
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WRA   125.32 210 PKP   08 06.10  20.8X
        0.4s     1.60nm
      S.D. = 1.3  on   6 of   9 obs.
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&  MAY  29, 1993  06h 30m 29.26s
   66.175 N        149.768 W
   DEPTH =  10 0km  (geophysicist)
 NORTHERN ALASKA                  (676)
      <AEIC>. ML 2.9 (AEIC). 3.5
      (PMR).

MLY     1.22 200 eP    30 52.47   0.5
                eS     31 09.25
MDM     1.38 152 eP    30 54.07  -0.5
FBA     1.52 146 ePnd  30 55.83  -0.7
                ePg    30 58.90
GLM     1.55 139 eP    30 56.51  -0.5
IMA     1.60 268 eP    30 56.53  -1.2
                eS     31 18.53
NEA     1.63 169 eP    30 57.93  -0.2
CCB     1.74 151 eP    30 59.02  -0.7
WRH     1.85 157 eP    31 00.77  -0.5
PRP     1.87 109 eP    31 00.45  -1.2
                eS     31 27.22
FYU     1.87  76 eP    31 02.37   0.8
HDA     2.13 145 eP    31 04.44  -1.0
MCK     2.48 171 eP    31 10.16  -0.2
RND     2.81 172 eP    31 14.96  -0.1
DOT     3.51 134 eP    31 25.09   0.1
PAX     3.71 148 eP    31 27.47  -0.5
SDG     4.10 151 eP    31 32.98  -0.3
TTA     4.23 222 eP    31 31.37  -3.8
                eS     32 36.09
SML     4.43 171 eP    31 39.16   1.1
TZL     4.56 153 eP    31 39.88   0.0
PMR     4.61 176 eP    31 38.38  -2.2
PMS     4.95 179 P     31 46.90   1.5
CGLM    4.99 193 eP    31 45.00  -1.0
KLU     5.00 158 (P)   31 44.84  -1.3
SLKM    5.69 182 (P)   31 49.43  -6.5
SVW     5.71 210 eP    31 56.00  -0.2
BRW     5.74 337 e(P)  31 56.10  -0.4
BALM    6.13 144 (P)   31 59.85  -2.2
     27 obs. ossocioted
-------------------------------------
   MAY  29, 1993  06h 50m 13.42± 0.11s
   19.072 N ± 2.5km   26.476 W ± 1.5km
   DEPTH =  12.0km  (geophysicist)
   5.9mb (150 obs.)  6.2Msz ( 59 obs.)
 NORTH ATLANTIC OCEAN             (402)
      Mw 6.4 (GS), 6.3 (HRV). Ms 6.2
      (BRK). Depth from broadband
      displacement seismograms.
      FAULT PLANE SOLUTION: P-Waves
       NP1:Strike= 55 Dip=82 Slip=-180
       NP2:       145     90      -352
       Principal Axes:
        T              Plg= 6  Azm= 10
        P                  6       280
      Comment: The focal mechanism is
        well controlled and
        corresponds to left-lateral
        strike-slip faulting with a
        small normal component. The
        preferred fault plane is NP1.
      RADIATED ENERGY
       No. of sta:  17  Focal mech.  F
       Energy        5.7±1.1*10**14 Nm
      MOMENT TENSOR SOLUTION
      Dep  21              No. of sta: 32
      Moment Tensor;   Scale 10**18 Nm
        Mrr= 0.13        Mtt= 4.02
        Mff=-4.15        Mrt= 0.37
        Mrf=-0.85        Mtf=-0.70
       Principal axes:
        T  Val=  4.12  Plg= 6  Azm=  6
        N        0.23      78      127
        P       -4.36      10      274
      Best Double Couple:Mo=4.2*10**18
       NP1:Strike= 50 Dip=78 Slip=-177
       NP2:       320     87      -12
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 53S, **C  M.W.: 43S, 81C
      Centroid Location:
      Origin Time       06:50:18.9 0.1
      Lat 19.16N 0.01 Lon  26.43W 0.01
      Dep  15.0 FIX Half-duration  3.5
      Moment Tensor;   Scale 10**18 Nm
        Mrr= 0.14 0.02   Mtt= 2.95 0.02
        Mff=-3.09 0.02   Mrt= 0.38 0.07
        Mrf=-1.33 0.07   Mtf=-1.44 0.02
       Principal Axes:
        T  Val=  3.42  Plg=12  Azm= 15
        N        0.37      69      138
        P       -3.80      17      281
      Best Double Couple:Mo=3.6*10**18
       NP1:Strike= 59 Dip=69 Slip=-176
       NP2:       327     86      -21

MBO     10.24 116 iP     52 37.80  -5.4X
                iS     54 25.00
TBT     12.36  38 ePc    53 04.22  -7.8X
MAMG    16.53 120 P      53 55.30 -11.6X
TIO     21.00  52 iPc    54 59.90   0.5
                i      58 47.50
AVE     22.16  46 iPc    55 11.50   0.7
                i      59 34.00
                i      00 14.00
IFR     23.88  49 iPc    55 29.50   1.6
TIC     24.25 118 P      55 31.20  -0.3
LIC     24.47 119 P      55 34.00   0.4
      Z  20s      0.50um          4.0MszX
KIC     24.64 118 P      55 35.20   0.0
        0.7s   103.50nm          5.6mb
LIS     24.68  34 eP     55 36.00   0.6
                iS     00 06.40
SFS     24.85  42 iP     55 40.00   3.0X
CNIL    24.89  42 iP     55 40.00   2.6X
PLAT    24.92  43 iP     55 40.00   2.2
OJEN    25.05  43 iP     55 42.00   2.9X
EVAL    25.24  39 iPd    55 42.10   1.3
EJIF    25.31  43 iPc    55 42.62   1.2
EPRU    25.78  42 iPc    55 45.75  -0.1
MAL     26.16  43 iPc    55 49.80   0.5
                i      55 55.60
                iPP    58 52.00
                iS     00 43.00
EHOR    26.30  40 iPc    55 50.37  -0.3
ELUO    26.75  42 iPc    55 54.38  -0.5
EGUA    26.77  44 iPc    55 53.97  -1.0
ECOG    27.03  43 iPd    55 57.30  -0.2
EPLA    27.31  36 iPc    55 59.42  -0.5
EBAN    27.42  41 iPc    56 00.55  -0.4
ENIJ    27.75  45 iPc    56 03.63  -0.3
PA8     27.94  38 iPc    56 05.09  -0.7
                epPc   56 08.98  14kmX
                e      56 13.45
EHUE    27.97  43 iPc    56 05.53  -0.5
STS     28.16  29 iPc    56 06.24  -1.3
ERUA    28.44  31 iPc    56 09.21  -0.9
EVIA    28.51  42 iPc    56 10.03  -0.8
EALH    28.76  44 eP     56 12.56  -0.5
GUD     28.78  37 iPd    56 13.27   0.0
EMON    29.15  29 iPc    56 15.27  -1.2
ACU     29.78  44 iPd    56 21.18  -1.1
ECHE    30.03  42 iPc    56 24.70   0.2
ETOR    30.11  39 iPc    56 24.42  -0.8
ECRI    31.01  36 iPc    56 32.87  -0.2
EROO    31.60  41 iPc    56 37.60  -0.7
EGRA    31.99  38 iPc    56 44.39   2.8X
BOH     32.16  36 P      56 43.37   0.1
ELYF    32.22  36 P      56 43.46  -0.2
ISSF    32.23  37 P      56 43.89   0.0
LHE     32.26  37 P      56 44.19   0.1
MADF    32.30  36 P      56 44.08  -0.2
ATE     32.33  37 P      56 44.58   0.0
ESCF    32.39  37 P      56 45.10  -0.1
OGE     32.51  37 P      56 46.06  -0.1
ESEL    32.63  45 iPc    56 46.56  -0.6
EPF     32.88  38 iPc    56 49.90   0.4
        0.2s   273.70nm          7.0mb X
DEG     33.03 271 eP     56 51.00   0.0
SALF    33.21  39 P      56 53.01   0.6
MVM     33.22 268 eP     56 50.20  -2.4
MGG     33.34 270 eP     56 54.00   0.3
BIM     33.39 268 eP     56 54.20   0.1
FDF     33.42 268 eP     56 54.00  -0.4
LESF    33.43  38 P      56 54.94   0.7
SLB     33.52 266 eP     56 55.67   0.4
DOG     33.61 270 eP     56 56.40   0.4
BPA     33.67 272 eP     56 57.00   0.5
LSPF    33.75  39 P      56 57.08   0.1
SVB     33.85 265 iP     56 59.57   1.4
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MGH	34.06	272	eP	57	07.61	7.7X		1.2s	476.00nm		6.1mb				e	59	49.00						
LFF	34.31	35	iPc	57	01.60	-0.1	IMI	37.93	42	P	57	31.36	-1.2	EDI	40.76	20	eP	57	55.30	-0.4			
	0.6s	104.25nm				5.9mb	CLLP	37.97	275	P	57	33.00	0.0		1.3s	113.00nm				5.4mb			
NEV	34.33	273	eP	57	03.46	1.3	PGF	38.00	44	P	57	32.86	-0.3	RSM	40.87	44	P	57	58.00	1.2			
LPO	34.39	36	iPc	57	02.40	-0.1	BHB	38.02	40	P	57	33.28	0.1	AOU	40.89	47	P	57	57.60	0.6			
	1.3s	188.45nm				5.8mb	PORP	38.03	275	P	57	33.60	0.1	RFI	40.91	48	P	57	57.95	0.8			
TPP	34.88	261	iP	57	09.58	2.7X	LPL	38.06	39	iPc	57	34.60	0.8		1.8s	1163.50nm				6.3mb			
MFF	34.94	32	iPc	57	06.40	-0.8		1.2s	213.60nm		5.8mb			EBH	40.93	19	ePc	57	57.40	0.3			
	1.3s	317.70nm				6.0mb	LPG	38.06	39	iPc	57	34.70	0.8	SDI	40.93	48	P	57	57.40	0.0			
RJF	34.97	35	iPc	57	06.80	-0.6		1.3s	254.15nm		5.8mb			ESY	40.94	20	ePc	57	56.60	-0.6			
	1.0s	172.00nm				5.9mb	RSL	38.09	38	P	57	34.29	0.3		1.3s	44.00nm				5.0mb			
	Z 22s	76.00um				6.4Msz	ROB	38.11	41	P	57	34.20	0.2	ARV	41.02	45	P	57	57.70	-0.4			
CAF	35.03	36	iPc	57	07.80	-0.2	RSP	38.18	39	P	57	35.52	0.9	ATN	41.02	53	P	58	00.14	2.0			
	1.1s	410.25nm				6.2mb	LRS	38.19	276	P	57	35.00	0.1		1.4s	200.90nm				5.7mb			
VAL	35.19	17	iP	57	09.90	0.7	FIN	38.28	41	P	57	35.20	-0.2	ELO	41.05	19	ePc	57	57.40	-0.7			
			S	02	48.00		LSD	38.28	39	P	57	36.39	0.7	DBN	41.21	29	iP+	58	01.00	1.6			
CPZ	35.21	23	eP	57	08.80	-0.6	CKI	38.43	41	P	57	38.00	1.4		Z 20s	23.00um				6.0Msz			
	1.2s	88.00nm				5.5mb	MGP	38.46	275	P	57	37.00	-0.1				ePP	59	39.00				
CME	35.37	24	eP	57	10.40	-0.4	PCP	38.66	41	P	57	38.41	-0.2				iS	04	18.00				
LPF	35.51	30	iPc	57	11.80	-0.1	ORO	38.86	39	P	57	40.10	-0.2	CTI	41.30	41	Pc	57	59.70	-0.8			
	1.3s	511.20nm				6.2mb	GUAN	38.91	262	iPc	57	40.90	-0.2	OGA	41.31	39	iPc	58	00.20	-0.5			
LSF	35.58	34	iPc	57	12.00	-0.6	LOMF	39.14	36	P	57	43.14	0.6	EDU	41.33	20	ePc	58	00.00	-0.4			
	1.1s	300.85nm				6 1mb	VITF	39.18	35	P	57	42.70	-0.1	GMB	41.33	54	P	58	01.31	0.5			
GRR	35.85	29	iPc	57	14.50	-0.3	HAU	39.25	35	iPc	57	43.40	0.0		1.1s	134.20nm				5.6mb			
	1.3s	417.35nm				6.2mb		1.2s	429.60nm		6.0mb			LMN	41.34	319	ePc	58	04.00	3 4X			
LBL	35.88	37	P	57	15.62	0.3		Z 23s	48.00um		6.3MszX			DUI	41.37	48	Pc	58	01.70	0.7			
TCF	35.96	35	iPc	57	15.70	-0.2	BOB	39.33	41	P	57	45.00	0.8	SOI	41.45	54	Pc	58	01.90	0.3			
	1.1s	388.75nm				6.2mb	BSF	39.39	36	P	57	44.71	0.0	BNS	41.46	32	iPc	58	01.92	0 4			
PYM	36.06	36	P	57	17.15	0.3	FAI	39.42	54	Pc	57	47.60	2.7X		3.0s	710.00nm				5.9mb			
MAF	36.11	35	iPc	57	17.00	-0.1	VAI	39.46	39	P	57	44.80	-0.3		Z 23s	52.00um				6.3MszX			
	1.3s	248.40nm				5.9mb	PII	39.53	43	P	57	47.70	2.0				i-	59	47.00				
FLN	36.29	29	iPc	57	17.80	-0.7	BBS	39.58	37	P	57	46.47	0.2				e-	04	25.00				
	0.9s	189.35nm				5 9mb	MOF	39.59	36	P	57	46.41	0.0	MOTA	41.60	39	iPc	58	01.80	-1.1			
	Z 21s	42 00um				6.2Msz	DOU	39.63	31	Pc	57	46.20	-0.3	SOTA	41.60	39	iPc	58	02.00	-0.9			
COLF	36.31	37	P	57	19.18	0.4	BDI	39.73	43	P	57	47.20	-0.3		1.0s	138.00nm				5 6mb			
AGO	36.32	36	P	57	19.13	0.3	SNF	39.75	31	iPc	57	46.75	-0.7	SGO	41.61	50	P	58	03.20	0.3			
LDF	36.34	30	iPc	57	18.30	-0.6				ec	59	30.10		MGR	41.66	51	P	58	03.20	-0.1			
	0.9s	208.35nm				6 0mb	ECH	39.81	35	P	57	48.11	0 0	TNS	41.67	34	ePc	58	03.30	0.0			
BGF	36.48	35	iPc	57	20.00	-0.2	GIB	39.89	53	P	57	50.00	1.0	VVI	41.75	41	P	58	03.93	-0.1			
	1 2s	468.90nm				6 2mb	CAR	39.95	264	iPc	57	48.00	-1.7		2.8s	915.30nm				6.0mb			
PLDF	36.54	36	P	57	21.18	0.4	UCC	39.97	30	Pc+	57	50.40	1.1	EDR	41.78	20	ePc	58	03.40	-0.7			
ECP	36.60	21	eP	57	20.70	-0.4				e	59	23.00		WATA	41.87	39	iPc	58	04.00	-1.2			
ECB	36 62	20	eP	57	20.80	-0.5				S	03	53.00		WTTA	41.87	39	iPc	58	04.10	-1.1			
SSB	36.65	38	P	57	22.19	0.5	OLLA	39.98	263	iPc	57	50.80	0.9		1.2s	146.00nm				5.6mb			
LRG	36.75	41	iPc	57	22.30	-0.1	CDF	39.99	35	P	57	49.56	-0.1				i	59	58.90				
	1.3s	335.05nm				6.0mb	LIBD	40.02	36	P	57	49.96	0.2	MMN	41.90	51	P	58	04.60	-0.7			
	Z 20s	24.00um				6.0Msz	FIR	40.03	44	iPc	57	52.00	2.1	WTS	41.92	31	iPc	58	05.90	0.7			
LMR	36.78	42	iPc	57	22.30	-0.4				iS	03	57.00			1.1s	396.60nm				6.1mb			
	1.4s	231.75nm				5.8mb	WLS	40.03	35	P	57	50.05	0.1				e	58	13.50				
HIF	36.82	34	eP	57	22.80	-0.2	FEL	40.10	36	P	57	50.47	-0.1				e	59	46.00				
AVF	36 89	35	iPc	57	23.50	-0.1	WLF	40.14	33	iPc	57	50.15	-0.5	GRI	41.92	53	P	58	05.84	0.3			
	1.3s	216.60nm				5.8mb				ed	59	30.00			1.0s	100.50nm				5.5mb			
FRF	36.98	41	iPc	57	24.10	-0.3	RDP	40.19	47	P	57	51.70	0.4	CSI	42.09	51	P	58	08.10	1.2			
	1.3s	217.35nm				5.8mb	RMP	40.20	47	P	57	52.60	1.2	TDS	42.09	52	P	58	07.71	0.8			
SMF	37.07	35	iPc	57	25.10	0.0	ESK	40.26	20	ePc	57	50.91	-0.7		1.3s	84.10nm				5.3mb			
	1.1s	170.45nm				5.7mb		1.3s	279.40nm		5.8mb			FUR	42.11	38	iPc	58	06.90	0 0			
SSF	37.15	34	iPc	57	25.50	-0.3				ed	57	53.80			1.3s	984.00nm				6.4mb			
	1.4s	247.45nm				5.8mb				esPd	57	56.12			Z 19s	56.00um				6.5Msz			
CALN	37.23	41	P	57	26.75	0.1	EKA	40.29	20	Pc	57	51.20	-0.7				ePP	59	42.80				
LPR	37.27	275	P	57	27.50	0.3		1.3s	279.40nm		5.8mb						eS	04	25.80				
DCN	37.30	19	eP	57	26.50	-0.4	PZI	40.31	55	P	57	53.84	1.5				eSS	07	39.20				
	1.2s	357.00nm				6 0mb		2.9s	2860.10nm		6.5mb			ROI	42.24	52	P	58	08.60	0.4			
CPD	37.35	275	P	57	28.20	0.4	MEU	40.34	55	P	57	53.79	1.1	FVI	42.25	40	Pc	58	07.70	-0.3			
LBF	37.35	35	iPc	57	27.30	-0.2		1.3s	107.90nm		5.4mb			WIT	42.37	30	eP	58	11.00	2.1			
	1.3s	192.05nm				5.7mb	STR	40.35	35	P	57	53.25	0.8	TRI	42.47	42	eP	58	09.30	-0.6			
LOR	37.46	34	iPc	57	28.10	-0.3	PGD	40.37	44	P	57	53.00	0.0				ePP	59	48.00				
	1.2s	140.45nm				5 6mb		1.1s	260.70nm		5.8mb						e	00	12.00				
	Z 22s	57.00um				6.3Msz	MNO	40.38	53	P	57	54.81	1.7				e	02	00.00				
DLF	37.49	20	eP	57	28.10	-0.4		1.2s	422.90nm		6.0mb						eS	04	36.00				
	1.2s	476.00nm				6.1mb	SAL	40.40	41	P	57	52.50	-0.4				eSS	07	52.00				
SJG	37.56	275	iPd	57	29.59	0.0	MNS	40.40	46	Pc	57	52.90	-0.2	RBL	42.67	41	P	58	11.30	-0.3			
			esPc	57	34.56		CRE	40.42	44	Pc	57	52.90	-0 4	VOY	42.69	42	iPc	58	11.70	-0.2			
AURF	37.57	41	P	57	29.67	0.2	BDF	40.45	213	eP	57	54.60	0.8				e	04	37.00				
TOUF	37.59	41	P	57	30.06	0.3	BAO	40.47	213	iPc	57	53.80	-0.1				eS	04	40.30				
HTR	37.62	23	eP	57	29.40	-0.3				e	57	59.80		RIY	42.72	43	iP	58	11.40	-0.5			
SBF	37.63	41	P	57	29.87	-0.1				e	58	21.00		KBA	42.81	40	iPc	58	12.10	-0.8			
HCG	37.67	23	eP	57	29.80	-0.4	SFI	40.48	44	Pc	57	53.60	0.0		1.2s	286.00nm				5.9mb			
AUTN	37.69	41	P	57	30.89	0.2	LANF	40.61	35	P	57	54.63	0.0				i	58	43.40				
PZZ	37.75	40	P	57	31.27	0.2	EAU	40.61	20	eP	57	54.10	-0.4				i	04	41.00				
STV	37.75	41	P	57	31.54	0.6	EAB	40.62	19	ePc	57	54.40	-0.2				i	04	47.10				
SAOF	37.76	41	P	57	30.91	-0.1		1.3s	182.00nm		5.6mb			BHG	42.83	39	P	58	12.20	-0.7			
PRL	37.77	40	P	57	31.95	0.6	ASS	40.66	45	P	57	55.20	0.0		1.1s	467.00nm				6.1mb			
ENR	37.80	41	P	57	31.13	-0.3	HOFF	40.67	35	P	57	55.58	0.5	TOV	42.85	264	ePc	58	14.40	0.9			
DOI	37.83	40	P	57	32.50	0.8	EBL	40.68	20	ePc	57	54.90	-0.2				iPP	58	15.00				
HAE	37.87	24	eP	57	31.10	-0.6	ENN	40.71	31	iPc	57	55.40	0 0	GRFO	42.86	36	iPc	58	10.97	-2.1			
	1.2s	121.00nm				5.6mb		1.1s	328 90nm		6.0mb						epP	58	14.94	13kmX			
DMU	37.89	19	eP	57	31.60	-0.3				e	58	03.50		GRF	42.86	36	iPc	58	13.20	0.1			

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| | | |

KGT 50.48 53 eP 59 11.80 -1 5
NAV 50.51 303 eP 59 13.54 -0.1
TYNO 50.64 310 P 59 15.00 0.6
JSC 50.67 299 (P) 59 14.98 0 1
ISR 50.79 47 ePc 59 15.50 -0.2
EEO 50.86 315 ePc 59 19.20 3.1X
ACTO 50.87 311 P 59 16.72 0.5
EDC 50.89 53 iP 59 16.00 -0.4
BNT 50.93 53 eP 59 16.80 0.1
DMK 51.03 51 iP 59 16.70 -0.7
VRI 51.08 46 iPc 59 17.00 -0.8
JAQ 51.12 325 ePd 59 17.00 -0.9
BRD 51.23 46 ePd 59 19.50 0.6
KCT 51.25 53 eP 59 18.80 -0 3
DST 51.37 54 iP 59 19.50 -0.7
CTT 51.42 52 iP 59 19.80 -0.7
UPP 51.45 27 iPc 59 18.90 -1.4
iS 06 30.00
LDN 51.57 310 P 59 21.10 -0.5
CLI 51.62 45 iPc 59 21.00 -0.9
PSN 51.65 49 iPc 59 21.00 -1.1
ELF 51.70 310 P 59 21.90 -0.6
KSL 51.82 59 eP 59 24.00 0.5
DLA 51.83 310 P 59 21.90 -1.6
ITU 51.86 52 iPc 59 23.00 -0.7
ISK 51.88 52 eP 59 22.80 -1.1
CFR 51.92 47 eP 59 23.00 -1.1
KHL 51.93 56 iP 59 24.20 -0.3
YLV 52.06 53 eP 59 23.80 -1.6
ELL 52.12 58 iP 59 26.60 0.7
HRT 52.31 53 iP 59 25.80 -1 4
GOGA 52.48 298 iPd 59 28.44 -0.1
1.1s 298.48nm 6.1mb
epPc 59 32.16 12kmX
(sP) 59 33.82
EYL 52.65 53 eP 59 28.80 -1 1
BCK 52.71 57 eP 59 28.50 -1 8
GPA 52 74 54 eP 59 24.00 -6 4X
KIS 52.78 45 iPc+ 59 28.00 -2.6X
2 0s 900.00nm 6.4mb
Z 16s 17.80um 6.2MszX
N 14s 5.00um
E 16s 10.90um
e 01 30.00
iS 06 54.00
i 09 22.00
TYL 52.80 301 eP 59 30.33 -0.6
PSO 52.86 257 eP 59 32.00 -0.1
FRB 52.90 338 ePd 59 29.50 -1 7
0.9s 56.00nm 5.5mb
JNW 53.06 7 eP 59 33.50 1.2
GBTN 53.15 301 eP 59 32.61 -1.0
CCH 53.21 230 P 59 33.60 -0.9
HLW 53.24 67 eP 59 34.50 0.3
e 01 44.00
eS 07 04.00
KOT 53.66 66 eP 59 36.50 -0.8
MNK 53.81 36 eP 59 39.00 1 0
1.0s 534.00nm 6.5mb
Z 16s 14.00um 6.1MszX
e 01 46.00
ePPP 02 59.00
eS 07 06.00
eSS 11 00.00
ZOBO 53.96 232 iPd 59 37.20 -3.0X
Z 16s 4.79um 5.7MszX
S 06 54.00
LR 16 12.00
PPCY 54.02 60 eP 59 41.50 1.6
LPB 54.11 232 Pd 59 40.00 -1.1
1 1s 151.90nm 5.9mb
Z 19s 40.28um 6.5Msz
S 07 18.00
e 11 02.00
LR 16 11.00
CNCB 54.20 232 iPd 59 41.00 -1.0
CSS 54.83 60 eP 59 46.50 0.6
NUR 54.83 28 iP 59 44.00 -1.5
1.0s 213.30nm 6.1mb
Z 24s 29.00um 6.3MszX
eS 07 12.00
LR 19 40.00
LCF 55.08 17 eP 59 47.75 0.6
FAM 55.39 60 eP 59 52.00 2 1
KAS 55.45 52 iPc 59 49.40 -1.0
BZK 55.68 52 eP 59 51.10 -0.8
YJA 56.00 225 ePd 59 53.50 -1.4

RMN 56.05 66 eP 59 54.90 0.0
SIM 56.05 48 eP 59 54.00 -0.5
Z 20s 18.00um 6.2Msz
e 02 00.00
ePPP 03 12.00
eS 07 42.00
ePPS 08 00.00
KAF 56.25 27 iP 59 54.40 -1.2
0.7s 249.90nm 6.4mb
ADI 56.44 63 eP 59 57.60 0.1
ADAT 56.49 58 eP 59 58.10 0.3
HOL 56.50 67 eP 59 57.00 -1.0
ARE 56.63 234 eP 59 57.00 -2.4
SRFA 56.65 67 eP 59 59.00 0.0
HJA 56.66 224 ePd 59 58.90 -0.2
BHL 56.77 62 P 59 58.00 -2.0
S 07 52.00
HRI 56.86 62 eP 00 00.80 0.1
PUL 57.16 30 (P) 00 00.00 -2.2
1.0s 1200.00nm 6.9mb
Z 16s 20.00um 6.3MszX
N 17s 8.00um
E 16s 18.00um
e 01 00.00
e 02 08.00
eS 07 53.00
ePS 08 08.00
AYN 57.36 67 eP 00 04.16 0.1
TRO 57.54 17 eP 00 03.63 -1.1
SLA 57.78 223 ePc 00 05.90 -1.3
DAG 57.86 2 iPd+ 00 05.50 -1.4
0.9s 235.29nm 6.2mb
GAZ 57.98 58 iP 00 08.20 -0.1
SLM 58.03 304 P 00 20.00 11.3X
Z 21s 10.39um 5.9Msz
WAJH 58.14 71 eP 59 58.00 -11.6X
FVM 58.18 303 P 00 20.00 10.2X
Z 18s 18 60um 6.2Msz
ANN 58.30 49 iP- 00 09.00 -1.4
1.2s 160.00nm 6.0mb
Z 16s 12.50um 6.1MszX
N 16s 15 00um
E 16s 24.00um
ePPP 03 49.00
iS 08 11.00
e 09 58.00
eSS 11 58.00
eSSS 14 27.00
NNA 58.45 242 iPd 00 10.60 -1.3
1.0s 30.00nm 5.3mb
Z 20s 8.87um 5.9Msz
epPc 00 15.07 15kmX
SDF 58.66 21 iP 00 11.70 -1.0
CCM 58.83 303 iPd 00 12.70 -1.6
ed 00 13.61
epPc 00 16.34 12kmX
OBN 59.21 37 iPc 00 14.99 -1.6
1.8s 672.00nm 6.5mb
Z 18s 14.00um 6.1Msz
N 18s 8.40um
E 18s 7.20um
epPc 00 18.72 12kmX
esPd 00 20.62
e 01 03.02
i 02 26.00
iPPP 03 48.00
iS 08 20.00
i 08 29.00
i 10 08.00
iSS 12 18.00
iSSS 14 48.00
WIN 59.37 132 iPd 00 18.50 0.1
1.0s 12.00nm 5.0mb
Z 20s 16.90um 6.2Msz
MOS 59.90 36 iPc 00 21.00 -0.4
2.0s 1300 00nm 6.7mb
e 01 03.00
e 02 28.00
ePPP 04 06.00
iS 08 33.00
ePS 08 54.00
e 10 05.00
eSS 12 34.00
SOC 59.96 50 iPc+ 00 21.00 -1.0
2.5s 1300.00nm 6.6mb
Z 18s 15.00um 6.2Msz
N 16s 5.00um

E 17s 5.00um
ePPP 04 00.00
iS 08 34.00
KEV 59.97 19 iP 00 20.00 -1.7
1.0s 540.00nm 6.6mb
Z 24s 36.90um 6.4MszX
eS 08 32.00
LR 22 00.00
ANT 60.37 227 eP 00 17.00 -7.9X
CYA 60.63 220 ePd 00 24.00 -2.7X
(S) 08 39.00
MIAR 60.85 299 iPd 00 26.84 -1.4
1.0s 151.76nm 6.1mb
Z 21s 12.66um 6.0Msz
epPc 00 30.81 13kmX
esPc 00 32.30
LPA 61.44 209 eP+ 00 37.00 5.0X
Z 20s 22.69um 6.3Msz
eS 08 56.00
UYO 61.61 299 iPd 00 31.70 -1.7
TCA 62.05 217 ePd 00 33.40 -3.0
FCC 62.29 327 ePc 00 43.80 6.3X
PYA 62.39 50 iPc 00 38.00 -0.5
2.0s 660.00nm 6.5mb
Z 20s 10.00um 6.0Msz
N 20s 3.00um
E 20s 6.50um
iS 09 05.00
iPS 09 14.00
iSSS 15 50.00
RTPR 62.40 219 ePc 00 35.10 -3.5X
ULM 62.44 317 ePd 00 39.40 0.7
KBS 62.48 8 iPc 00 39.30 0.8
UOSK 63.36 70 eP 00 44.00 -1.3
MRA 63.49 217 e(P) 00 42.10 -3.6X
LSZ 63.71 119 iPd 00 48.00 0.3
0.5s 3.00nm 4.7mb X
i 04 42.00
MTA 63.73 52 iPc+ 00 45.40 -1.9
1 0s 130.00nm 6.1mb
Z 18s 2.50um 5.4Msz
E 18s 5.00um
i 03 08.00
ePPP 04 35.00
iS 09 22.40
ePPS 09 53.00
e 10 34.00
eSS 13 25.00
AAE 63.78 89 eP 00 50.00 1.6
FNO 63.92 301 iPd 00 47.40 -1.4
OCO 63.96 301 iPc 00 50.20 1.2
RTRS 64.10 221 ePc 00 49.90 0.1
GRO 64.31 50 iPc+ 00 52.00 0.9
1.0s 330.00nm 6.5mb
Z 18s 17.00um 6.3Msz
N 24s 6.00um
E 20s 3.00um
i 03 12.00
iS 09 30.00
iPS 09 42.00
iSS 13 38.00
RTLL 64.31 219 iPc 00 50.00 -1.2
CFA 64.37 219 iPd 00 50.70 -0.9
AFIF 64.38 72 iPc 00 51.33 -0.7
ZON 64.59 219 e(P) 00 49.60 -3.5X
GRS 65.04 55 iPc 00 55.00 -1.1
1.7s 200.00nm 6.0mb
Z 18s 3.69um 5.6Msz
N 13s 2.63um
E 13s 2.63um
i 03 19.00
iS 09 37.00
iPS 09 50.00
TAB 65.16 56 iP+ 00 56.00 -0.9
ABHA 65.17 78 eP 00 56.70 -0.7
ACO 65.19 302 iPc 00 55.20 -1.8
NAI 65.29 101 iPd 01 04.50 6.4X
1.0s 1434.00nm 7.1mb X
Z 16s 7.17um 6.0MszX
iPP+ 03 30.00
iPPP 05 05.00
iPS 09 54.00
iPPS 10 52.00
iSS 13 36.00
MAK 65.60 51 iP+ 00 59.00 -0.4
Z 20s 12.50um 6.1Msz
N 20s 10.00um

29d 07h

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Z 18s 5.00um 5.9Msz
e 03 03.09
iS 12 58.09
eSS 17 52.09
e 21 42.09
eLQ 23 44.09
i 24 40.09
eLR 28 34.09
GCC 83.00 307 iPd 02 41.90 1.8
STAN 83.01 307 iPc 02 41.71 1.5
1.0s 190.00nm 6.2mb
Z 18s 11.00um 6.3Msz
e 03 00.71
iS 12 59.71
NTYM 83.06 308 eP 02 42.08 1.7
JEGM 83.19 307 (P) 02 42.64 1.5
FHC 83.25 311 iPd 02 43.27 1.9
FOX 83.35 310 iPd 02 43.68 1.9
EKR 83.39 311 iPd 02 43.87 1.8
KMPM 83.47 310 eP 02 43.93 1.3
OUE 83.48 60 iP+ 02 43.90 0.9
eS 13 07.00
BRW 83.67 346 eP 02 42.79 -0.1
SIT 83.97 329 (P) 02 45.70 1 1
0.8s 22.38nm 5.4mb
Z 19s 7.22um 6.1Msz
FRU 85.06 46 eP 02 51.00 0.5
2.4s 1160.00nm 6.7mb
e 06 09.00
e 13 28.00
eSS 19 00.00
COL 85.18 339 ePc 02 50.35 -0.2
FBA 85.18 339 ePc 02 50.23 -0.3
1.0s 28 15nm 5.4mb
e 02 57.40
BALM 85.25 334 eP 02 50.57 -0 6
IMA 86.37 341 ePc 02 56.61 -0.1
0 8s 24.39nm 5.5mb
KLU 86.45 335 eP 02 57.00 -0.1
PMR 87.64 336 eP 03 02.25 -0.4
0.9s 38.38nm 5.7mb
Z 19s 5.27um 6.0Msz
ELT 87.71 34 iPc 03 03.00 -0 2
2.2s 230.00nm 6.1mb
Z 15s 12.00um 6.4MszX
N 15s 6.40um
E 15s 11.30um
e 13 31.00
PRZ 87 77 46 eP 03 05.00 1.1
1.2s 90.00nm 6.0mb
eS 13 36.00
TIK 87 96 8 iPc+ 03 04.00 -0.1
1 4s 520.00nm 6.7mb
Z 20s 4.50um 5.9Msz
i 06 38.00
iS 13 48.00
SLKM 88.72 336 eP 03 08.11 0.1
CRP 88.98 337 (P) 03 08.02 -1.4
TTA 89.23 339 eP 03 10.37 -0.1
0 9s 12.65nm 5.2mb
SVW 90.35 338 eP 03 15.70 0.1
SNA 90.75 172 e(P) 03 18.60 1.6
1.1s 88.00nm 6.0mb
ILT 90.92 350 iPc 03 17.40 -0 6
2.0s 56.00nm 5.5mb
i 03 20.00
i 06 51.80
eS 13 43.00
iSSS 23 48.00
KDC 91.38 334 e(P) 03 21.20 0.9
NDI 92.39 59 iPc 03 26.00 0 4
1.0s 45.00nm 5.8mb
ePP 07 08.00
eS 14 04.00
eS 14 32.00
WMQ 93.22 41 iPc 03 30.69 1.5
epPc 03 34.41 12kmX
POO 93.34 69 eP 03 26.00 -4.1X
NVL 93.47 168 eP 03 32.00 2.5
Z 18s 1.50um 5.5Msz
N 18s 1.50um
E 18s 1.50um
ePP 07 05.00
ePPP 09 04.00
eSKS 14 10.00
eSKKS 14 21.00
eS 14 45.00
ePS 16 04.00
eSS 21 06.00
eSSS 24 48.00
MOY 95.97 30 ePc 03 43.00 1.5
1.2s 136.00nm 6.3mb
eS 09 46.20
SDN 96.25 336 P 03 50.00 7.2X
Z 18s 7.00um 6.2Msz
BOD 96.70 20 eP 03 43.40 -1.4
1.1s 35.00nm 5.8mb
YAK 96.99 11 eP 03 46.00 0.0
1.5s 28.00nm 5.6mb
Z 24s 4.70um 5.9MszX
N 21s 2.40um
E 22s 5.30um
eS 14 22.00
esS 15 09.00
IRK 97.09 28 eP 03 46.00 -0.7
eS 14 26.00
TLY 97.20 29 ePc 03 48.09 0.9
HYB 97.90 69 eP 03 52.00 1.1
e 07 48.00
ZAK 97.92 30 iPc 03 51.30 0.9
1.1s 42.00nm 6.0mb
Z 21s 23.80um 6.7Msz
N 21s 13.69um
E 21s 24.36um
e 07 49.70
e 14 31.00
eS 15 21.00
e 16 45.00
e 25 50.00
GKN 98.60 57 PKP 03 55.00 0.9
DMN 99.15 57 PKP 03 57.20 0.4
KKN 99.20 56 PKP 03 57.60 0.6
PKI 99.41 57 PKP 03 58.20 0.2
GUN 99.62 56 PKP 03 58.80 -0.2
CIT 101.14 24 ePdiff04 07.00 2.2
Z 18s 6.04um 6.2Msz
N 19s 5 30um
E 19s 10.93um
e 14 44.00
SHL 105.45 56 ePdiff04 19.50 -5.3X
eSKS 15 08.00
eS 16 28.00
SMY 106.30 347 PKP 08 50.00 10.8X
Z 21s 4.88um 6.0Msz
LZH 107.77 40 ePdiff04 41.00 6.1X
2.0s 34.00nm 6.1mb
Z 22s 7.87um 6.2Msz
N 16s 5.83um
pP 04 46.50
sP 04 52.00
PP 09 02.00
S 15 18.00
eS 16 28.00
S 16 44.00
e 18 16.00
SS 23 58.00
PET 108.08 357 ePdiff04 38.00 2.4X
KMI 113.89 50 ePKP 09 06.00 11.1X
1.5s 40.00nm
Z 22s 11.20um 6.4Msz
N 16s 3.90um
E 16s 2.00um
pP 09 20.00
sP 09 26.40
SKS 19 29.00
S 19 46.00
SS 25 36.00
CHTO 114.53 58 ePKP 08 55 50 -0.4
HON 117.85 308 PKP 09 10.00 7.9X
Z 19s 4.40um 6.1Msz
MAT 122.83 15 ePKP 09 10.00 -1.2
Z 20s 7.80um 6.4Msz
CSY 125.22 160 ePKP 09 17.20 2.3X
0.7s 4.60nm
DAV 142.13 49 ePKP 09 44.00 -4.3X
RKG 144.17 123 ePKP 09 50.00 -1.2
GUMO 146.45 15 ePKPc 09 52.53 -3.0X
Z 28s 3.64um 6.0MszX
MEEK 147.04 110 ePKP 09 59.10 2.9X
MBL 148.33 100 iPKPd 10 02.40 4.0X
0.6s 73.00nm
SWI 151.65 53 ePKPc 10 10.00 6.4X
ASPA 161.17 107 ePKP 10 17.70 2.4X
2.0s 10.50nm
WRA 161.89 96 PKP 10 19.10 3.0X
0.8s 1.90nm
WB2 161.90 96 ePKP 10 21.40 5.3X
0.9s 11.40nm
STK 163.32 142 ePKP 10 21.00 3.8X
CTA 173.07 100 iPKPc 10 27.00 3.1X
i 10 39.00
S.D. = 0.9 on 602 of 659 obs.

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* MAY 29, 1993 07h 28m 04.38± 1.19s
54.442 N ±15.6km 159.907 W ±10.9km
DEPTH = 33.0km (normal)
4.4mb (4 obs.)
SOUTH OF ALASKA (17)
Felt (III) at Sand Point.

SDN 0.96 340 iPd 28 20.60 -0.9
eS 28 33.93
KDC 5.31 48 eP 29 24.15 0.8
SVW 7.07 17 eP 29 47.35 -0.8
RSO 7.16 30 eP 29 52.44 2.8X
CP2 7.96 28 eP 30 01.62 0.8
CRP 7.99 28 (P) 30 02.27 1.1
SLKM 8.01 37 eP 30 02.08 0.8
eS 31 20.38
TTA 8.75 12 eP 30 08.59 -3.0X
KLU 10.24 41 eP 30 31.49 -0.6
ADK 10.39 263 eP 30 36.34 2.2
BALM 11.45 48 eP 30 49.73 1.1
INK 18.55 31 eP 32 20.00 0.0
PV08 37.76 93 eP 35 17.26 -1.9
FRB 43.88 40 eP 36 11.00 2.3
KAF 63.69 357 iP 38 33.00 -1.1
0.4s 4.00nm 4.9mb
NB2 64.65 5 P 38 39.80 -0.7
0.8s 1.30nm 4.1mb
NUR 65.34 358 iP 38 43.40 -1.4
0.2s 1.00nm 4.6mb
HFS 65.66 4 eP 38 45.20 -1.7
0.3s 0.90nm 4.3mb
S.D. = 1.4 on 16 of 18 obs.

& MAY 29, 1993 07h 38m 15.78s
61.517 N 146.769 W
DEPTH = 18.5km
SOUTHERN ALASKA (2)
<AEIC>. ML 2.5 (AEIC).

KLU 0.41 93 iPc 38 23.99 -0.3
eS 38 30.60
SCM 0.41 320 iPc 38 24.33 -0.1
S 38 31.41
VLZ 0.44 151 iPd 38 24.08 -0.6
eS 38 30.29
SML 0.80 292 iPc 38 29.47 -1.5
TZL 0.83 50 iPd 38 30.46 -0.9
GHO 1.06 285 ePc 38 33.55 -1.8
CVA 1.09 153 ePc 38 33.98 -1.9
eS 38 49.87
HIN 1.13 173 ePc 38 34.93 -1.6
S 38 50.74
PLRM 1.13 275 iPc 38 34.95 -1.5
eS 38 49.92
PMR 1.13 275 iPd 38 34.57 -1.9
SDG 1.17 29 ePd 38 35.05 -2.1
eS 38 50.16
SGAM 1.27 143 ePc 38 36.48 -2.1
eS 38 54.50
PTE 1.27 240 ePc 38 37.22 -1.4
eS 38 53.63
PMS 1.37 260 P 38 38.90 -1.1
GLB 1.42 92 ePc 38 38.34 -2.4
eS 38 56.94
PWA 1.49 277 P 38 40.70 -1.0
RAGM 1.53 137 eP 38 41.02 -1.2
PAX 1.58 22 eP 38 41.07 -2.0
MPA 1.63 232 ePc 38 42.86 -0.8
eS 39 03.99
SUA 1.91 270 eP 38 46.41 -1.4
CROM 1.92 112 eP 38 46.22 -1.9
SEW 1.93 224 eP 38 47.17 -0.9
SLKM 1.96 240 eP 38 47.56 -1.0
HUR 1.99 319 eP 38 47.78 -1.1
TGL 2.06 110 eP 38 48.11 -1.9
RND 2.13 334 eP 38 50.21 -0.8
BALM 2.19 101 ePc 38 49.41 -2.5
SKT 2.31 284 eP 38 52.14 -1.4

29d 07h

MCK	2.44	337	eP	38 54.75	-0.6
CGLM	2.53	268	eP	38 54.69	-2.0
TRF	2.54	321	eP	38 53.94	-3.0
SPU	2.57	265	eP	38 55.05	-2.2
CPAM	2.60	267	eP	38 56.26	-1.5
CRP	2.60	267	eP	38 58.17	0.3
CTGM	2.69	100	eP	38 57.02	-2.0
CKL	2.70	266	eP	38 57.03	-2.2
YAH	2.71	113	P	38 57.20	-2.3
BGL	2.72	267	P	38 59.00	-0.4
HDA	2.90	358	eP	39 01.04	-0.9
CNPM	2.98	230	eP	39 01.41	-1.6
DFR	3.02	255	eP	39 01.50	-2.2
CCB	3.18	352	eP	39 05.15	-0.7
FBA	3.43	353	eP	39 08.53	-0.8

43 obs. associated

& MAY 29, 1993 07h 55m 00.40s
57.645 N 153.186 W
DEPTH = 57.3km
KODIAK ISLAND REGION (13)
<AEIC>. ML 2.5 (AEIC).

KDC	0.39	74	ePd	55 10.21	-0.8
			eS	55 17.82	
SYI	1.06	23	iP	55 18.29	-0.9
CDD	1.31	350	eP	55 22.00	-0.8
			eS	55 37.73	
MCNL	1.66	339	eP	55 26.38	-1.2
AUI	1.70	356	eP	55 27.12	-1.0
			eS	55 48.51	
AUE	1.72	357	eP	55 27.99	-0.4
AUP	1.73	356	eP	55 27.77	-0.8
AUH	1.73	356	eP	55 27.69	-0.9
			eS	55 48.96	
AUL	1.75	356	eP	55 28.14	-0.7
CNPM	2.15	28	iP	55 33.13	-1.3
PDB	2.21	347	eP	55 33.47	-1.9
			eS	55 59.11	
INW	2.43	1	eP	55 36.43	-2.1
BRLK	2.44	28	eP	55 36.76	-1.8
RS1	2.83	4	eP	55 42.77	-1.6
RS2	2.84	4	eP	55 43.84	-0.5
REF	2.86	5	eP	55 43.02	-1.8
NCT	2.93	2	eP	55 43.60	-2.0
DFR	2.97	5	eP	55 44.05	-2.1
SEW	3.14	37	eP	55 45.51	-2.9
SLKM	3.25	27	eP	55 47.22	-2.9
MPA	3.47	33	eP	55 50.22	-2.9
CKL	3.59	7	eP	55 52.44	-2.5
SPU	3.59	9	eP	55 52.89	-2.1
CPAM	3.66	8	eP	55 53.06	-2.9
CGLM	3.72	9	eP	55 54.82	-2.0
PTE	3.87	32	eP	55 55.86	-2.9
PMS	4.06	26	eP	55 58.36	-3.1
HIN	4.42	49	eP	56 03.27	-3.2

28 obs. associated

? MAY 29, 1993 08h 31m 38.82± 1.05s
39.367 N ±13.6km 29.337 E ±13.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

DST	0.60	294	ePg	31 50.00	-1.0
ALT	0.68	117	ePg	31 51.90	-0.4
			eSg	32 02.40	
KHL	1.05	172	ePn	31 59.20	0.5
KCT	1.16	320	ePn	32 01.40	0.9

S.D. = 1.4 on 4 of 4 obs.

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* MAY 29, 1993 08h 31m 50.36± 0.63s
6.491 N ±12.2km 60.682 E ± 7.4km
DEPTH = 10.0km (geophysicist)
5.0mb (20 obs.)
CARLSBERG RIDGE (421)

GBA	17.94	66	P	36 03.00	1.4
HYB	20.56	57	eP	36 36.00	4.0X
	1.0s		60.00nm	4.9mb	
MJMA	24.23	324	eP	37 12.00	3.6X
GUE	24.30	13	eP	37 13.90	4.6X
MAIO	29.69	358	eP	38 02.00	3.2X
CES	35.31	341	eP	38 47.00	-0.9
SHL	35.33	54	eP	38 49.00	0.8
FRU	38.23	17	eP	39 16.00	3.7X
	2.5s		120.00nm	5.2mb	

PRZ	39.13	21	eP	39 22.00	2.0
	2.0s		60.00nm	4.9mb	
PYA	40.46	340	eP	39 41.00	10.2X
BCAO	42.00	269	iPd	39 44.70	0.9
	1.2s		28.00nm	4.9mb	
			id	40 11.00	
KMI	44.26	60	eP	40 02.50	0.2
	2.0s		50.00nm	5.0mb	
			pP	40 09.50	23kmX
LZH	49.24	47	eP	40 47.00	5.7X
	2.0s		30.00nm	5.0mb	
CMP	49.48	327	ePc	40 46.00	3.1X
ARU	49.80	358	eP	40 46.00	0.9
ELT	51.07	19	eP	40 55.00	0.2
	2.4s		27.00nm	4.8mb	
OBN	52.17	343	eP	41 02.00	-1.2
			e	41 17.30	
			e	41 41.00	
MOS	52.43	344	eP	41 06.00	0.9
SPC	54.48	328	e(P)	41 20.90	0.3
ZST	55.59	326	eP	41 28.30	-0.1
ZAK	56.32	31	eP	41 33.50	-0.1
	2.2s		28.00nm	4.9mb	
PRU	57.98	327	eP	41 46.50	1.1
KHC	58.07	325	eP	41 45.50	-0.6
			e	41 52.00	
			e	42 22.50	
CLL	59.51	327	eP	41 55.00	-1.1
	2.0s		31.00nm	5.1mb	
BJI	59.73	47	eP	41 56.00	-1.7
UPP	62.39	337	iP	42 15.80	0.3
LOR	63.09	320	eP	42 20.10	-0.3
	0.8s		4.55nm	4.7mb	
SSF	63.24	320	eP	42 21.00	-0.3
	1.0s		8.40nm	4.9mb	
BGF	63.49	319	eP	42 23.20	0.2
	1.2s		20.85nm	5.2mb	
LPO	63.99	317	eP	42 26.50	0.2
HFS	64.12	336	eP	42 26.10	-0.8
	0.9s		8.10nm	4.9mb	
LFF	64.37	317	eP	42 29.20	0.4
	0.7s		7.40nm	5.0mb	
NRI	65.34	10	ePc	42 35.00	0.4
	2.6s		99.00nm	5.5mb	
NB2	65.64	336	P	42 36.10	-0.7
	0.9s		4.40nm	4.6mb	
LDF	66.06	321	eP	42 39.50	-0.1
	1.1s		17.10nm	5.2mb	
LPF	66.47	320	eP	42 43.10	0.9
	0.9s		12.80nm	5.1mb	
YAK	74.53	27	eP	43 29.00	-1.8
	1.8s		35.00nm	5.1mb	
WRA	77.00	112	P	43 44.20	-1.4
	1.2s		0.70nm	3.6mb X	
TIK	77.08	18	eP	43 44.00	-1.1
	1.6s		39.00nm	5.2mb	
			e	43 52.00	
NVL	83.64	195	eP	44 21.00	1.0

S.D. = 1.0 on 32 of 40 obs.

MAY 29, 1993 08h 43m 11.68± 0.29s
45.561 N ± 2.4km 15.207 E ± 2.2km
DEPTH = 15.2 ± 3.1 km
5.1mb (2 obs.)
NORTHWESTERN BALKAN REGION (383)
ML 5.0 (GRF). Felt (V) at
Ljubljana, Slovenia.

VBY	0.07	148	iPgc	43 13.10	-1.7
CEY	0.58	288	iPgc	43 23.90	1.0
			iSg	43 32.00	
ZAG	0.60	65	iPgc	43 22.70	-0.6
			iSg	43 30.50	
RIY	0.62	250	iPgc	43 24.10	0.5
			iSg	43 34.10	
PTJ	0.63	57	iPgc	43 22.80	-1.0
			iSg	43 30.90	
LJU	0.67	316	iPgc	43 25.80	1.2
			iSg	43 36.50	
TRI	1.02	279	ePgc	43 31.20	0.7
			iSg	43 46.60	
VOY	1.03	298	iPgc	43 31.70	0.9
			eSg	43 46.60	
RBL	1.44	308	Pc	43 38.90	1.7
FVI	1.98	302	P	43 47.20	2.3
KBA	1.99	320	iPnc	43 47.00	1.7
			iPg	43 49.80	
			i	43 59.80	
			iSn	44 16.10	
			iSg	44 19.00	
VVI	1.99	283	P	43 47.50	2.3
			eSn	44 16.30	
SOP	2.32	23	iPn	43 49.70	-0.1
CTI	2.54	282	P	43 54.60	1.6
HVAR	2.54	159	iPnd	43 54.00	1.0
			iSn	44 25.20	
RSM	2.55	231	P	43 54.80	1.7
KMR	2.60	344	iPn-	43 55.40	1.5
			iPg	44 02.10	
			iSg	44 37.70	
ARV	2.62	219	P	43 55.40	1.2
BHG	2.69	324	ePn	43 57.60	2.4
VKA	2.81	15	iPnc	43 57.20	0.4
			iPg	44 04.90	
			i	44 08.00	
			i	44 26.10	
			iSn	44 31.30	
			iSg	44 45.20	
SCE	2.84	303	iPnd	43 59.40	2.0
SFI	2.90	237	P	43 59.30	1.3
ZST	2.94	26	iPn	43 58.40	-0.2
			i(Pg)	44 06.70	
			e	44 39.00	
			i	44 44.00	
WTTA	3.00	306	iPnd	44 01.70	2.1
			iPg	44 08.60	
			iSg	44 51.10	
PGD	3.00	237	P	44 01.30	1.7
CRE	3.02	231	Pc	44 01.90	2.0
WATA	3.07	307	iPnd	44 03.10	2.4
			i	44 46.60	
ASS	3.09	217	P	44 01.90	1.1
SRO	3.11	42	iP	44 09.80	8.9X
OGA	3.18	296	iPnc	44 05.00	2.7
SOTA	3.23	302	iPnc	44 05.50	2.7
			iPg	44 12.80	
			iSg	44 57.80	
BUD	3.26	53	eP	44 05.00	1.8
SAL	3.29	272	P	44 05.10	1.5
FIR	3.33	239	ePn	44 07.00	2.8X
			iSn	44 50.00	
MOTA	3.35	304	iPnc	44 06.90	2.3
			i	44 08.50	
			i	44 52.20	
			i	44 56.60	
GEC2	3.44	343	Pn	44 06.40	0.6
			Pg	44 20.50	
			Sn	44 46.90	
			Sg	45 04.40	
AQU	3.46	203	P	44 07.50	1.4
BRY	3.58	137	iPnc	44 08.17	0.3
			iSn	44 55.25	
BDI	3.61	247	P	44 09.10	0.9
MNS	3.66	211	P	44 09.40	0.4
OSS	3.70	290	iPc	44 12.00	2.4
PLE	3.74	125	iPnd	44 13.47	3.4X
			iSn	45 04.84	
KHC	3.74	343	Pn	44 10.50	0.4
	1.0s		78.50nm		
			Pg	44 26.50	
			Sn	44 52.50	
			Sg	45 10.40	
FUR	3.75	315	ePn	44 11.40	1.2
PII	3.82	243	P	44 11.40	0.4
NKY	3.87	134	iPnc	44 12.76	0.8
			iSn	45 03.41	
HCY	3.91	142	iPnd	44 10.75	-1.7
			iSn	45 00.22	
WET	3.92	337	iPnc	44 13.10	0.6
DUI	3.94	188	P	44 12.60	-0.2
SDI	3.98	195	P	44 13.50	0.0
VDL	4.10	285	iPc	44 18.20	2.9X
BOB	4.15	261	P	44 17.20	1.3
BDV	4.19	140	iPnc	44 14.72	-1.7
			iSn	45 07.23	
TTG	4.28	136	iPnc	44 17.56	-0.1
			iSn	45 11.96	
IVA	4.31	127	iPnd	44 20.34	2.1
			iSn	45 17.26	
RFI	4.35	192	P	44 19.69	1.1
PRU	4.45	354	iPn	44 19.40	-0.7
	1.1s		169.00nm		
			iPg	44 36.10	
			e	44 58.10	

			Sn	45	08.30		CLL	5.94	347	iPn	44	40.50	-0.5	NB2	15.69	353 P 46 56.80 3.4X
			eSg	45	33.70					ePg	45	06.00			0.6s	2.50nm 3.6mb X
			Sg	45	34.50					eSg	46	20.00		OBN	16.60	47 eP 47 03.00 -2.1X
TMA	4.46	279	iPd	44	22.00	1.6	LPG	5.94	272	Pn	44	41.30	-0.1	WRA	124.27	84 PKP 02 12.10 0.7
LLS	4.51	289	iPd	44	23.20	2.2				Sn	45	48.20			0.8s	0.40nm
VAI	4.52	276	Pc	44	21.90	0.9	LPL	5.95	273	Pn	44	41.30	-0.2		S.D. = 1.2	on 150 of 170 obs.
PVY	4.54	129	iPnd	44	22.96	1.6				Sn	45	47.60				
			iSn	45	21.22		TDS	5.96	172	P	44	40.90	-0.4	?	MAY 29, 1993	08h 46m 39.71± 0.97s
BAI	4.60	164	P	44	21.00	-1.2	RRL	5.98	267	P	44	39.98	-1.9X		39.062 N ± 9.3km	27.557 E ±15.1km
ULC	4.64	139	iPnd	44	20.94	-1.8	MOF	6.01	295	P	44	41.76	-0.4		DEPTH = 10.0km	(geophysicist)
			iSn	45	18.06		RSL	6.02	274	P	44	43.54	1.1	TURKEY		(366)
SDA	4.68	137	ePn	44	24.00	0.6	OHR	6.03	136	iPn	44	42.30	-0.1		ML 2.7 (ISK).	
			iSn	45	25.10					i	45	48.50				
PCP	4.83	260	P	44	26.52	1.0				i	46	04.50		IZM	0.70	199 ePg 46 53.60 0.0
			S	45	11.70		LOMF	6.06	290	P	44	43.18	0.3			eSg 47 06.60
BRT	4.90	162	P	44	25.40	-1.1	ROI	6.07	170	P	44	42.00	-1.0	DST	0.99	56 ePn 46 58.60 0.0
GRF	4.93	328	ePn	44	28.00	1.1	WLS	6.08	301	P	44	43.29	0.1	KCT	1.34	27 ePn 47 04.30 -0.1
			e	44	35.50		LANF	6.09	307	P	44	44.05	0.9	KGT	1.40	352 iPn 47 05.30 0.0
GRF	4.93	328	ePg	44	46.20	19.3X	BMR	6.09	67	ePd	45	15.00	31.8X		S.D. = 0.1	on 4 of 4 obs.
			e(Sn)	45	21.30		ECH	6.12	299	P	44	43.22	-0.5			
			eSg	45	49.50		CDF	6.13	301	P	44	43.45	-0.4	*	MAY 29, 1993	08h 48m 23.07± 1.15s
SPC	4.99	41	iPn	44	28.80	1 0	BSF	6.22	294	P	44	44.68	-0.5		45.554 N ± 9.5km	15.321 E ± 7.3km
			i(Pb)	44	35.80		TPE	6.33	145	ePn	44	50.00	3.3X		DEPTH = 5.0km	(geophysicist)
			i	44	48.50		TNR	6.36	86	ePc	45	03.00	15.9X	NORTHWESTERN BALKAN REGION		(383)
			eSn	45	29.70		FRF	6.43	255	Pn	44	46.80	-1.3		MD 2.4 (LJU).	
			i(Sb)	45	47.30					Sn	45	57.10				
SGO	5 00	179	P	44	27.80	0.0	TNS	6.51	318	ePnc	44	53.60	4.4X	VBY	0.07	222 iPgc 48 24.60 -0 2
CHI	5.04	259	P	44	30.30	1 8				iSn	46	04.60				eSg 48 25.80
ORO	5.07	273	P	44	28.10	-0 9				iSg	46	53.30		PTJ	0.56	52 iPgd 48 34.40 0.0
ZLA	5 08	295	ePd	44	29.90	0.8	HAU	6.56	295	Pn	44	49.10	-0.8			iSg 48 42.10
MMK	5.09	278	ePc	44	29.80	0.5				Sn	46	04.00		CEY	0.65	287 e(Pg) 48 36.00 -0.2
LACI	5.11	139	ePn	44	31.50	2.2	LMR	6.61	253	Pn	44	49.00	-1.6			eSg 48 45.70
			iSn	45	38.00					Sn	46	00.40		LJU	0.74	312 i(Pg) 48 37.10 -0.7
SLE	5.12	298	iPc	44	30.10	0.5	LRG	6.67	255	Pn	44	50.00	-1.4			e(Sg) 48 49.00
FIN	5.15	257	P	44	29.61	-0.5X				Sn	46	04.00		VOY	1.11	296 e(Pg) 48 45.40 1.0
HOF	5.26	336	ePn	44	30.90	-0.6	SRN	6.68	146	ePn	44	50.20	-1.4			eSg 49 01.60
GZR	5.33	89	ePd	44	33.00	0 4	ABH	6.74	313	eP	44	52.34	0.0		S.D. = 0.9	on 5 of 5 obs.
KSP	5.34	7	ePn	44	31.60	-1.0	VAY	6.83	126	iPn	44	54.40	0 8			
			iPg	44	50.00		VITF	6.86	296	P	44	53.77	-0.3		MAY 29, 1993	08h 49m 41.70± 0.63s
			iSn	45	27.10		CDR	7.00	258	iP	44	55.10	-0.9		45.600 N ± 6.4km	15.251 E ± 4.7km
ROB	5.36	259	P	44	32.13	-0.9				e	46	12.30			DEPTH = 5.0km	(geophysicist)
			S	45	19.81		WLF	7.37	307	P	45	05.00	3.9X	NORTHWESTERN BALKAN REGION		(383)
BRG	5.38	351	ePn	44	31.80	-1.5	ATN	7.40	178	P	45	00.40	-1.2		MD 2.9 (LJU). ML 2.8 (VIE).	
			ePg	44	55.00		SOI	7.51	175	P	45	04.20	1.0			
			eSn	45	32.00		SSB	7.51	272	P	45	01.88	-1.4	VBY	0.10	178 iPgc 49 42.60 -1.2
			eSg	46	03.00		LBF	7.91	284	Pn	45	08.00	-0.9			eSg 49 44.00
PGF	5 39	238	Pn	44	32.60	-0 9				Sn	46	37.00		ZAG	0.56	67 iPg 49 52.70 -0.1
			Sn	45	32.10		SMF	7.98	282	Pn	45	08.90	-0.8			iSg 50 00.20
TIR	5.41	140	ePn	44	35.50	1 9				Sn	46	37.10		PTJ	0.58	59 iPgd 49 52.50 -0.8
			iSn	45	48.50		LOR	8.03	286	Pn	45	09.70	-0.7			iSg 50 00.20
PHP	5 43	134	ePn	44	36.00	2.1				Sn	46	39.70		CEY	0.59	284 ePg 49 53.60 0.0
			iSn	45	49.50		COLF	8.08	274	P	45	09.45	-1.8			eSg 50 03.50
MGR	5 43	177	P	44	33.60	-0.3	ENN	8.10	313	eP	45	13.50	2.1	RIY	0.66	247 ePg 49 53.90 -1.0
CEI	5.43	64	eP	45	08.00	34 1X		0.3s		7.50nm			5.4mb			iSg 50 04.10
FEL	5 46	298	eP	44	34.16	-0 4	PLDF	8.11	277	P	45	10.67	-1.0	LJU	0 67	312 iPgd 49 55.40 0.3
IMI	5.47	255	P	44	33.76	-0 8	SSF	8.24	285	Pn	45	12.30	-1.1			iSg 50 04.60
			S	45	25.16					Sn	46	42.60		VOY	1.04	295 ePg 50 02.20 0.3
DIX	5.47	278	iPd	44	35.50	0.6	AVF	8.32	283	Pn	45	13.10	-1.4			eSg 50 17.20
C.C	5.59	32	eP	44	36.20	0.0				Sn	46	44.70		TRI	1.05	276 P 50 01.90 0.0
			eS	45	24.00		AGO	8.45	278	P	45	15.24	-1.2			eSg 50 17.30
RSP	5.62	269	P	44	34.21	-2 5X	DOU	8.46	306	P	45	17.20	0.8	RBL	1.44	306 Pd 50 09.00 0.4
			S	45	25.57		WTS	8.49	322	eP	45	12.00	-4.9X			eSg 50 30.80
MOX	5 63	336	iPn	44	36.00	-0.7		0.5s		3.20nm			4.8mb	KBA	1.98	319 iPgd 50 19.90 3.5X
			iSn	45	36.50		PYM	8.55	276	P	45	16.63	-1.2			i(Sn) 50 46.60
			iSg	46	12.50		BGF	8.66	281	Pn	45	18.10	-1.1			iSg 50 48.70
BBS	5.64	292	P	44	36.98	0.0				Sn	46	53.80		FVI	1.99	301 P 50 18.70 2.4X
BHB	5.66	266	P	44	34.99	-2.2X	MAF	8.84	279	Pn	45	19.90	-1.9	HVAR	2.57	160 ePn 50 26.90 2.2
			S	45	24.75					Sn	46	58.00			S.D. = 1.1	on 10 of 12 obs.
LSD	5.66	272	P	44	35.59	-1.9X	HYF	8.85	286	Pn	45	21.60	-0.3			
			S	45	27.50					Sn	46	57.80		?	MAY 29, 1993	08h 51m 06.61± 0.97s
SAOF	5.67	257	P	44	37.33	0 0	TCF	9 09	279	Pn	45	24.10	-1.1		39.657 N ± 8.3km	29.477 E ± 9.3km
ENR	5.69	259	P	44	37.35	-0.4				Sn	47	03.20			DEPTH = 10.0km	(geophysicist)
			S	45	28.46		CAF	9.30	271	Pn	45	26.40	-1.6	TURKEY		(366)
MMN	5.70	174	P	44	36.20	-1.5				Sn	47	07.60			ML 2.7 (ISK).	
DOI	5.74	262	P	44	36.60	-1.8	LSF	9.56	279	Pn	45	30.10	-1.6			
STV	5.75	260	P	44	37.83	-0.7				Sn	47	16.10		DST	0.66	266 ePg 51 19.50 -0.3
			S	45	31.34		RJF	9.63	273	Pn	45	32.30	-0.3			eSg 51 30.00
AUTN	5.75	257	P	44	39.07	0.4				Sn	47	17.00		ALT	0.78	141 ePn 51 22.00 0.2
SBF	5.79	256	Pn	44	38.30	-0.8	LPO	9.95	270	Pn	45	36.10	-0.9	YLV	0.91	355 ePn 51 24.80 0.7
			Sn	45	43.00		LFF	10.22	272	Pn	45	39.20	-1.6	EYL	1.05	30 ePn 51 25.80 -0.6
EMS	5.81	278	iPd	44	41.30	1.9				Sn	47	28.30			S.D. = 1.0	on 4 of 4 obs.
CSI	5.84	172	P	44	39.30	-0.4	MFF	10.72	281	Pn	45	47.10	-0.4			
PZZ	5.84	262	P	44	37.51	-2.3X				Sn	47	42.20		?	MAY 29, 1993	08h 56m 13.23± 1.06s
			S	45	29.97		LDF	10.89	292	Pn	45	49.10	-0.7		38.006 N ± 8.7km	28.480 E ±10.6km
AURF	5.86	256	P	44	39.72	-0.3	FLN	11.15	292	Pn	45	52.50	-0.9		DEPTH = 10.0km	(geophysicist)
TOUF	5.87	258	P	44	40.85	0.5	GRR	11.34	290	Pn	45	55.00	-0.9	TURKEY		(366)
TOD	5.93	315	eP	44	41.01	0.1	LPF	11.41	288	Pn	45	55.00	-1.9			

29d 08h

CIN	0.51	218	iPgc	56 23.00	-0.6
			iSg	56 33.00	
KHL	0.88	69	ePn	56 48.20	18.0X
IZM	1.04	293	ePn	56 33.60	0.8
ELL	1.69	137	ePn	56 43.60	0.5
KCT	2.24	358	ePn	56 50.30	-0.6
S.D. = 1.3		on	4 of	5 obs.	

MAY 29, 1993 08h 57m 17.01± 0.87s
34.122 S ± 8.4km 70.172 W ± 5.2km
DEPTH = 10.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)
MD 4.0 (SAN).

CHCH	0.44	295	iP	57 26.53	0.5
			iS	57 34.13	
PCH	0.58	330	iP	57 28.26	-0.5
			iS	57 37.45	
SAN	0.78	328	iP	57 31.86	-0.4
			iS	57 44.47	
TACH	0.79	306	iP	57 32.43	0.0
			iS	57 45.43	
FCH	0.80	353	iP	57 31.70	-1.1
			(S)	57 43.63	
LNV	1.04	279	iP	57 36.89	0.2
			iS	57 52.32	
PEL	1.07	336	iP	57 36.98	-0.1
			iS	57 52.19	
LCCH	1.33	299	iP	57 41.52	0.0
			iS	58 00.74	
ROCH	1.34	328	eP	57 42.00	0.1
			iS	58 01.18	
JACH	1.48	346	iP	57 43.56	-0.2
			iS	58 03.31	
RFA	1.55	115	iPc	57 44.30	-0.5
			S	58 03.50	
RTBS	2.53	14	e(P)d	58 03.20	4.5X
CFA	2.99	33	e(P)	58 08.70	3.3X
			(S)	58 50.20	
RTLL	3.13	28	e(P)	58 09.70	2.3
RTRS	3.99	9	e(P)	58 23.50	4.1X
TCA	5.46	61	ePc	58 40.00	-0.5
			S	00 03.70	
S.D. = 0.9		on	13 of	16 obs.	

? MAY 29, 1993 09h 04m 27.42± 4.68s
41.546 N ±34.3km 22.969 E ±12.0km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)

KNT	0.39	188	ePg	04 35.30	-0.1
			eSg	04 44.10	
SRS	0.64	132	ePg	04 39.50	-0.7
			eSg	04 51.78	
GRG	0.73	216	ePg	04 41.58	-0.2
			eSg	04 52.58	
SOH	0.78	158	ePg	04 42.74	0.1
			eSg	04 57.78	
OUR	1.43	147	ePb	04 54.22	0.8
			eSb	05 15.62	
S.D. = 0.8		on	5 of	5 obs.	

% MAY 29, 1993 09h 05m 19.91± 0.79s
39.260 N ± 6.5km 27.715 E ± 7.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

DST	0.79	64	ePg	05 35.40	0.1
IZM	0.93	202	ePn	05 37.60	-0.1
EDC	1.09	6	ePn	05 40.00	-0.4
KCT	1.10	26	ePn	05 40.80	0.1
EZN	1.21	298	iPn	05 42.70	0.2
KGT	1.23	345	iPn	05 42.80	0.0
S.D. = 0.3		on	6 of	6 obs.	

MAY 29, 1993 09h 43m 35.36± 0.69s
39.156 N ± 5.5km 27.614 E ± 8.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

IZM	0.81	200	ePg	43 51.60	0.6
			eSg	44 04.10	
DST	0.91	60	ePn	43 53.00	0.3
EZN	1.20	304	iPn	43 57.70	0.0
EDC	1.20	9	ePn	43 58.00	0.2
KGT	1.32	350	ePn	43 59.30	-0.4
CIN	1.60	166	ePn	44 03.00	-0.7
			iSg	44 27.00	
S.D. = 0.6		on	6 of	6 obs.	

? MAY 29, 1993 10h 17m 32.01± 5.25s
41.295 N ±26.0km 20.775 E ±34.4km
DEPTH = 10.0km (geophysicist)
ALBANIA (391)
ML 2.3 (SKO).

OHR	0.18	175	iPgc	17 35.80	-0.4
			iSg	17 39.10	
FNA	0.68	138	ePg	17 45.10	-0.5
			eSg	17 55.90	
GRG	1.27	105	iPb	17 55.38	-0.3
			eSb	18 12.94	
KNT	1.61	94	ePb	18 00.06	-0.4
LIT	1.77	132	ePb	18 04.22	1.4
SRS	2.13	94	ePn	18 08.18	0.0
S.D. = 0.9		on	6 of	6 obs.	

? MAY 29, 1993 10h 38m 44.85± 1.16s
29.846 S ±34.0km 178.015 W ±25.2km
DEPTH = 179.0 ± 19.6 km
4.8mb (9 obs.)
KERMADEC ISLANDS, NEW ZEALAND (178)

RAO	0.60	8	iPd	39 10.10	-0.1
			S	39 29.40	
DZM	15.97	295	iPc	42 21.20	0.1
ARMA	26.23	261	eP	44 07.10	2.0
	0.7s		12.00nm		4.7mb
CNB	27.95	250	eP	44 20.20	-0.3
	1.1s		23.00nm		4 8mb
CAN	28.24	250	iPd	44 23.70	0.6
BWA	28.71	252	eP	44 25.00	-2.3
TOO	31.17	246	eP	44 49.20	0.3
	0.7s		17.00nm		4.9mb
CTA	33.70	278	iPc	45 12.00	1.1
	1.0s		25.00nm		4 8mb
STK	34.60	256	eP	45 18.40	-0.1
	0.4s		9.30nm		4.8mb
ASPA	43.13	266	eP	46 28.40	-0.9
	0.4s		13.30nm		4 9mb
WB2	44.05	272	iPd	46 36.30	-0.4
	0.4s		43.90nm		5.4mb
			i	47 12.60	
WRA	44.06	272	P	46 36.50	-0.3
	0.6s		6.70nm		4 4mb
SPA	60.32	180	iPc	48 37.90	1.2
	0.6s		20.33nm		5.1mb
NVL	79.43	183	eP	50 31.00	-0.9
GBA	109.14	275	PKP	56 47.00	-8.4X
LMN	126.40	53	ePKP	57 36.00	8.4X
NUR	145.79	340	iPKP	58 07.40	4.7X
	0.2s		3.00nm		
BCAO	150.27	215	iPKPd	58 19.00	7.7X
	1.0s		10.00nm		
S.D. = 1.2		on	14 of	18 obs.	

MAY 29, 1993 10h 50m 36.85± 0.40s
33.978 N ± 8.0km 59.859 E ± 5.3km
DEPTH = 33.0km (normal)
4.7mb (17 obs.)
NORTHERN IRAN (348)

MAIO	2.34	353	iPnd	51 13.80	0.0
	0.5s		76.53nm		
			eSn	51 46.00	
ASH	4.15	343	eP	51 38.50	-0.9
			iS	52 27.00	
QUE	7 10	120	iPc	52 22.40	1.1
			eS	54 22.90	
TEH	7.18	287	e(P)	52 52.00	29.6X
GRS	12.17	301	eP	53 29.00	-1.9
	0.9s		20.00nm		5.3mb
GRO	14.48	314	eP	54 00.00	-1.2
			e	56 40.00	
FRU	14.54	48	eP	53 56.00	-6.1X
	1.5s		30.00nm		4.6mb
MJMA	14.99	241	eP	54 06.67	-1.4
NDI	15.74	105	iPc	54 21.00	3.3X
			eS	00 26.00	
PYA	16.44	313	eP	54 26.00	-0.6
GKN	22.03	99	P	55 29.20	-1.2
ARU	22.44	358	eP	55 33.00	-1.0
			e	56 09.00	
DMN	22.57	100	P	55 36.60	0.8
	0.8s		61.00nm		5.1mb
KKN	22.64	99	P	55 35.60	-0.9
PKI	22.83	99	P	55 37.60	-0.9
	0.8s		47.00nm		5.0mb
SVE	22.84	1	ePd	55 38.50	0.6
	2.0s		40.00nm		4.6mb
			e	56 09.00	
GUN	23.09	98	P	55 40.80	-0.2
ELL	24.54	285	eP	55 57.10	2.4
OBN	26.62	330	eP	56 15.50	1.6
			i	56 31.50	
ELT	26.89	36	eP	56 15.20	-1.1
	1.4s		20.00nm		4.6mb
SPC	32.88	310	eP	57 14.00	4.0X
ZST	34.75	307	eP	57 24.40	-1.5
KAF	35.26	333	iP	58 01.20	31.2X
	0.3s		2.40nm		
ZAK	35.54	49	eP	57 34.00	1.4
	2.0s		22.00nm		4.7mb
PRU	36.67	310	eP	57 45.00	2.8X
RBL	36.97	304	P	57 47.30	2.5X
GEC2	37.07	308	P	57 45.70	0.0
	1.5s		14.58nm		4.6mb
			e	57 57.80	
KHC	37.19	308	eP	57 46.50	0.0
	1.2s		7.50nm		4.4mb
			e	59 14.50	
CLL	37.84	312	eP	57 54.00	2.1
CHTO	37.88	103	ePc	57 51.90	-0.7
	0.8s		20.50nm		5.0mb
CTI	38.29	303	P	57 58.70	2.7X
GRB1	38.47	308	e(P)	57 59.30	2.0
MOX	38.62	310	e(P)	57 59.90	1.4
NRI	38.80	16	eP	58 20.00	20.3X
	1.1s		10.00nm		
HFS	39.68	326	ePKP	58 06.50	-0.7
	0.4s		1.20nm		4.0mb
CDF	41.30	307	eP	58 20.20	-0.6
LPL	41.74	302	eP	58 24.40	-0.2
LBF	43.57	305	eP	58 39.00	-0.3
LOR	43.63	305	eP	58 39.90	0.1
SMF	43.68	304	eP	58 40.20	0.0
	1.1s		16.10nm		4.7mb
SSF	43.88	305	eP	58 41.80	0.0
	1.0s		9.40nm		4.5mb
AVF	44.01	304	eP	58 42.90	0.1
	1.0s		9.60nm		4.6mb
TCF	44.83	304	eP	58 49.70	0.2
CAF	45.08	302	eP	58 51.80	0.3
	0.8s		4.45nm		4.4mb
FLN	46.44	307	eP	59 01.90	-0.2
	0.9s		14.40nm		4.9mb
IPM	48.11	118	ePd	59 15.80	0.1
	0.6s		17.90nm		5.3mb
FBA	79.10	12	eP	02 40.40	1.3
S.D. = 1.1		on	38 of	47 obs.	

? MAY 29, 1993 10h 59m 18.97± 4.39s
39.494 N ±32.2km 29.544 E ±19.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.6 (ISK).

DST	0.72	279	iPg	59 33.30	0.2
			iSg	59 42.30	
YLV	1.08	353	iPn	59 39.70	0.4
EYL	1.17	24	ePn	59 40.70	-0.2
KCT	1.18	310	iPn	59 40.70	-0.4
S.D. = 0.6		on	4 of	4 obs.	

? MAY 29, 1993 12h 27m 29.35±12.04s
45.522 N ±21.2km 15.387 E ±87.8km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
MD 2.4 (LJU).

VBY	0.09	259	iPg	27 32.00	0.0
			eSg	27 33.40	
CEY	0.71	288	e(Pg)	27 42.70	-0.6
			eSg	27 53.00	
LJU	0.79	311	ePg	27 44.50	-0.3
			iSg	27 56.00	
VOY	1.16	297	ePg	27 52.00	0.9
			eSg	28 08.40	
S.D. = 1.1		on	4 of	4 obs.	

MAY 29, 1993 12h 40m 13.36± 0.33s
73.219 N ± 5.4km 6.220 E ± 5.3km
DEPTH = 10.0km (geophysicist)
4.6mb (21 obs.)
GREENLAND SEA (640)

JNE	5.00	250	eP	41	27.52	-2.6
JNW	5.01	251	eP	41	27.70	-2.6
TRO	5.42	125	eP	41	34.50	-1.6
			eS	42	31.30	
LOF	5.66	151	eP	41	39.38	0.0
			eS	42	35.25	
ARA0	7.17	111	Pn	41	58.31	-2.4
			Sn	43	13.74	
DAG	7.35	310	eP	41	57.00	-6.1X
MOL	10.71	177	eP	42	44.32	-5.4X
			eS	44	34.62	
NB2	12.38	169	P	43	09.20	-3.1X
	0.6s	2.00nm			4.5mb	
NRA0	12.70	168	Pn	43	13.19	-3.4X
			Sn	45	26.32	
KAF	13.40	136	eP	43	23.80	-1.9
HFS	13.45	164	eP	43	23.30	-3.2X
	0.4s	2.90nm			4.6mb	
Z	16s	0.36um			4.8MszX	
		LR		47	07.00	
NUR	14.56	142	eP	43	39.50	-1.4
EKA	18.37	197	Pc	44	30.00	0.7
	1.0s	6.20nm			3.7mb	
MOS	21.66	127	eP	45	04.00	-1.5
			e	45	16.00	
OBN	22.02	129	iPc	45	08.00	-1.0
	1.5s	70.00nm			4.9mb	
			e	45	33.00	
CLL	22.19	169	eP	45	11.00	0.3
	1.3s	15.00nm			4.3mb	
ENN	22.53	180	iPc	45	14.90	0.7
			e	45	21.00	
BRG	22.68	167	eP	45	15.50	-0.1
	1.3s	18.00nm			4.4mb	
MOX	22.78	171	eP	45	15.60	-1.0
	1.4s	22.00nm			4.5mb	
HSP	22.88	163	ePc	45	18.00	0.4
TNS	23.10	176	ePc	45	22.10	2.3
PRU	23.60	167	eP	45	25.50	0.9
			e	45	47.00	
OJC	23.83	158	eP	45	25.50	-1.4
KHC	24.39	168	eP	45	30.00	-2.4
			e	45	35.00	
NRI	24.57	57	ePc	45	36.00	2.2
	1.4s	19.00nm			4.5mb	
			e	45	47.00	
			e	46	05.00	
GEC2	24.68	168	P	45	36.50	1.2
	1.0s	13.07nm			4.5mb	
			e	45	44.00	
			e	45	52.80	
CDF	24.90	178	eP	45	39.10	1.8
	1.1s	13.45nm			4.5mb	
SPC	24.90	158	eP	45	38.80	1.4
HAU	25.30	180	eP	45	41.70	0.6
	1.3s	22.40nm			4.7mb	
BSF	25.47	179	eP	45	44.80	2.0
EST	25.58	163	eP	45	44.50	0.9
LOR	26.06	184	eP	45	49.70	1.6
	1.1s	20.25nm			4.7mb	
SRO	26.06	161	eP	45	49.50	1.4
AVF	26.55	184	eP	45	54.40	1.8
	1.1s	10.75nm			4.5mb	
ARU	26.63	101	eP	45	53.00	-0.3
SVE	26.86	98	ePc	45	56.00	0.6
TOF	27.08	186	eP	45	57.10	-0.4
GRO	35.10	126	eP	47	11.00	2.7X
GRS	38.91	127	eP	47	40.00	-0.6
	1.5s	20.00nm			4.6mb	
PLT	39.09	3	iP	47	42.00	0.5
ASH	43.37	115	eP	48	17.00	0.0
LAK	44.58	65	eP	48	27.80	1.1
	1.6s	11.00nm			4.5mb	
			e	50	10.00	
MAIO	45.22	114	eP	48	33.00	0.9
			e	50	22.00	
NEW	52.76	315	eP	49	30.60	0.5
	1.2s	8.33nm			4.5mb	
YSSD	53.74	303	eP	49	37.12	-0.5
	1.6s	15.79nm			4.8mb	

LRM	54.09	311	eP	49	40.20	0.0
BW06	56.32	307	eP	49	55.56	-0.9
	1.3s	14.94nm			4.9mb	
GLD	58.16	302	eP	50	09.03	-0.4
	1.2s	12.34nm			4.8mb	
EMUT	59.43	307	eP	50	19.34	1.0
GKN	60.10	92	P	50	23.00	0.1
PV08	60.10	305	eP	50	22.71	-0.4
PV09	60.29	305	eP	50	24.63	0.3
KKN	60.49	92	P	50	25.20	-0.4
GUN	60.55	91	P	50	25.80	-0.4
DMN	60.61	92	P	50	26.60	0.1
UYO	60.64	291	iPd	50	25.80	-0.5
PKI	60.73	92	P	50	27.40	0.0
MSU	60.99	308	eP	50	28.70	-0.3
TUC	66.59	305	eP	51	06.87	1.3
	1.3s	6.71nm			4.7mb	
BCAO	69.12	167	iPd	51	27.20	5.8X
	0.8s	11.00nm			5.1mb	
ASPA	123.01	60	ePKP	59	09.60	-1.1
	1.6s	11.80nm				
	S.D. = 1.3 on 54 of 61 obs.					

& MAY 29, 1993 12h 45m 04.85s
63.515 N 150.829 W
DEPTH = 18.8km
CENTRAL ALASKA (1)
<AEIC>. ML 2.8 (AEIC), 3.1 (PMR).

TRF	0.25	105	iP	45	10.76	-0.1
HUR	0.76	134	eP	45	19.34	0.0
			S	45	31.27	
MCK	0.87	75	eP	45	21.31	0.1
			eS	45	33.93	
RND	0.89	96	eP	45	21.93	0.3
			eS	45	34.53	
NEA	1.32	35	eP	45	27.60	-0 6
			eS	45	45.80	
MLY	1.52	1	eP	45	30.53	-0.7
			eS	45	52.04	
WRH	1.54	50	eP	45	31.08	-0.4
SKT	1.57	192	eP	45	32.28	0.3
			eS	45	52.92	
CCB	1.75	48	eP	45	33.78	-0.7
MDM	1.84	37	eP	45	36.44	0.6
PWA	1.92	166	eP	45	37.40	0.4
FBA	1.92	42	eP	45	35.79	-1.2
			eS	46	04.73	
HDA	1.93	61	eP	45	36.42	-0.7
GHO	1.96	152	eP	45	38.52	0.9
			eS	46	02.99	
SUA	2.06	179	eP	45	39.28	0.2
			eS	46	06.63	
SML	2.06	145	eP	45	39.14	0.0
PLRM	2.08	157	eP	45	39.73	0.4
PMR	2.08	157	eP	45	39.17	-0.1
			eS	46	08.18	
GLM	2.11	44	eP	45	38.93	-0.8
			S	46	08.00	
CGLM	2.28	194	eP	45	42.41	0.1
SCM	2.34	135	eP	45	43.97	1.0
CRP	2.34	196	eP	45	42.32	-0.8
CPAM	2.35	196	eP	45	43.93	0.7
CP2	2.35	197	(P)	45	39.83	-3.5
PMS	2.35	165	eP	45	43.70	0.5
BGL	2.37	199	eP	45	44.15	0.6
CKN	2.38	196	eP	45	45.64	2.0
TTA	2.42	258	eP	45	40.62	-3.5
CKL	2.43	197	eP	45	44.83	0.5
PAX	2.49	100	eP	45	47.18	2.0
			eS	46	19.64	
SDG	2.61	110	eP	45	48.11	1.3
PTE	2.79	162	eP	45	50.42	1.1
			eS	46	25.48	
IMA	2.84	336	eP	45	47.84	-2.3
DOT	3.03	84	eP	45	54.78	2.0
SLKM	3.03	174	eP	45	54.02	1.2
KLU	3.05	130	eP	45	54.90	1.8
DFR	3.06	197	eP	45	54.40	1.1
MPA	3.12	166	eP	45	55.65	1.7
NCT	3.13	199	eP	45	56.07	1.8
VLZ	3.18	137	eP	45	55.75	0.8
RDW	3.18	198	eP	45	56.97	1.8
RSO	3.20	197	eP	45	55.73	0.4
SVW	3.29	225	P	45	56.50	0.0
HIN	3.74	145	eP	46	03.50	0.6

CVA	3.82	139	eP	46	04.79	0.8
CNPM	4.01	183	eP	46	07.46	0.8
SGAM	4.02	136	eP	46	07.52	0.7
HMT	4.45	133	eP	46	14.62	1.7
BALM	4.68	118	eP	46	15.73	-0.6
WAX	4.86	126	eP	46	20.49	1.7
	50 obs. associated					

MAY 29, 1993 12h 58m 33.93± 0.85s
38.920 N ± 9.2km 20.786 E ± 5.4km
DEPTH = 10.0km (geophysicist)
GREECE (364)

IGT	0.71	330	ePg	58	48.72	0.9
			eSg	59	02.16	
KEK	1.10	316	ePb	58	54.00	-0.6
SRN	1.14	328	ePn	58	57.80	2.6X
AGG	1.21	85	ePb	58	56.76	0.3
			eSb	59	15.21	
TPE	1.50	337	ePn	59	04.50	3.7X
KZN	1.58	28	ePb	59	04.00	1.9
LIT	1.77	48	iPn	59	06.12	1.3
			eSn	59	30.01	
VLO	1.84	328	ePn	59	13.40	7.6X
FNA	1.92	14	ePn	59	06.92	0.0
			iSn	59	36.78	
OHR	2.19	0	ePn	59	10.20	-0.7
GRG	2.38	31	ePn	59	14.60	0.9
			eSn	59	46.12	
PAIG	2.46	65	ePn	59	13.92	-0.7
			iSn	59	46.12	
TIR	2.53	344	ePn	59	23.00	7.4X
SOH	2.74	45	ePn	59	19.20	0.4
VAY	2.76	29	iPn	59	17.40	-1.6
KNT	2.76	35	ePn	59	18.64	-0.4
			eSn	59	56.60	
PHP	2.77	355	ePn	59	26.70	7.5X
LACI	2.84	343	ePn	59	32.00	12.0X
OUR	2.84	59	ePn	59	19.36	-0.8
			eSn	59	57.12	
SRS	3.08	44	ePn	59	22.56	-0.9
GRI	3.41	270	P	59	31.12	2.9X
	0.5s	37.60nm				
TDS	3.53	283	P	59	46.10	16.2X
GMB	3.93	261	P	59	34.52	-1.2
	0.7s	23.60nm				
MGR	4.22	288	P	59	34.77	-5.0X
	0.5s	22.00nm				
MNO	4.88	260	P	59	56.40	7.0X
MEU	4.97	250	P	59	51.70	1.3
	0.2s	20.40nm				
	S.D. = 1.1 on 16 of 26 obs.					

MAY 29, 1993 13h 10m 33.65± 0.76s
44.294 N ± 5.3km 8.293 E ± 5.9km
DEPTH = 5.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.4 (LDG), 2.2 (GEN).

FIN	0.10	216	P	10	36.50	0.6
			S	10	38.14	
ROB	0.30	270	P	10	40.11	0.3
			S	10	44.37	
PCP	0.31	36	P	10	39.88	0.0
			S	10	43.96	
IMI	0.48	217	P	10	43.13	-0.2
			S	10	49.77	
ENR	0.63	264	P	10	46.24	0.0
			S	10	54.48	
STV	0.70	266	P	10	47.47	-0.1
			S	10	56.74	
SBF	0.75	235	Pg	10	50.00	1.2X
			Sg	11	01.90	
PZZ	0.88	284	P	10	51.05	-0.1
			S	11	02.50	
BHB	0.92	307	P	10	51.74	0.1
			S	11	03.38	
FRF	1.40	239	Pg	10	59.80	0.0
			Sg	11	18.70	
LMR	1.61	234	Pg	11	02.20	-0.6
			Sg	11	22.10	
LRG	1.63	240	Pg	11	04.70	1.6X
			Sg	11	26.10	
	S.D. = 0.3 on 10 of 12 obs.					

% MAY 29, 1993 13h 45m 20.35± 0.96s
44.289 N ± 8.7km 8.295 E ± 8.5km

29d 13h

DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.0 (GEN).

FIN	0.10	218	P	45 23.33	0.2
			S	45 24.88	
ROB	0.31	271	P	45 27.03	0.3
			S	45 31.47	
PCP	0.31	35	P	45 26.80	0 0
			S	45 31.06	
IMI	0.48	218	P	45 29.96	-0.1
			S	45 36.09	
ENR	0.63	265	P	45 32.98	-0.1
			S	45 41.45	
STV	0.70	267	P	45 33.99	-0.2
			S	45 43.33	

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

% MAY 29, 1993 14h 08m 03.94± 0.68s
39.089 N ± 5.6km 27.589 E ± 8.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

IZM	0.74	200	ePg	08 18.90	0.5
			eSg	08 30.00	
DST	0.96	57	iPn	08 22.00	-0.2
EZN	1.22	307	iPn	08 26.30	-0.4
EDC	1.27	9	ePn	08 28 00	0.4
KCT	1.30	27	ePn	08 28.10	0.1
CIN	1.54	165	ePn	08 31.00	-0.4
			iSg	08 56.00	

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

? MAY 29, 1993 14h 17m 53.74± 9.76s
38.717 N ±81.1km 22.814 E ± 9.1km
DEPTH = 10.0km (geophysicist)
GREECE (364)

AGG	0 48	309	iPg	18 03.50	-0.1
			eSg	18 15.62	
PAIG	1.38	29	ePb	18 19.14	0.1
LIT	1.40	350	ePb	18 19.62	0.3
			eSb	18 46.62	
OUR	1.85	29	ePn	18 25.82	0.1
SOH	2.14	11	ePn	18 30.02	0.0
KNT	2.44	1	ePn	18 34 58	0.3
			eSn	19 11.02	
SRS	2.47	14	ePn	18 33.98	-0.7

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

MAY 29, 1993 14h 19m 10.12± 0.70s
24.049 N ± 9.1km 108.670 W ±10.1km
DEPTH = 10.0km (geophysicist)
4.3mb (6 obs.)
GULF OF CALIFORNIA (49)

MZX	2.23	112	iP	19 47.00	-0.6
TUC	8.44	348	(P)	21 13.43	-2.0X
GSC	13.25	330	eP	22 19.59	-1.3
ARUT	14.29	345	eP	22 36.53	1.8X
ISA	14.35	326	(P)	22 36.24	0.8
	1.4s		14.52nm		4.5mb
PV09	14.41	359	eP	22 36.09	-0.3
PV08	14.48	0	(P)	22 37.85	0.4
MSU	14.72	349	eP	22 40.53	0.1
SRU	15.10	354	eP	22 46.09	0.8
TNP	15.78	334	eP	22 54.18	0.0
	1.2s		31.79nm		4.4mb
			e	23 00.59	
EMUT	15.82	354	eP	22 55 40	0.6
GLD	15.92	10	(P)	22 57.83	1.8X
	1.3s		59.67nm		4.6mb
UYO	15.98	48	iPd	23 04.40	7.8X
BONR	16.12	332	eP	23 00.08	1.4
DAU	16.46	353	eP	23 02.77	-0.2
CMB	17.16	327	(P)	23 10.19	-1.3
	0.6s		2.63nm		3.5mb
ARN	17.24	323	eP	23 10.14	-2.4X
BW06	18.69	358	eP	23 27.95	-2.8X
	1.4s		25.95nm		4.2mb
RSSD	20.38	10	(P)	23 47.02	-2.9X
	1.2s		12.82nm		4.1mb
FVM	20.86	44	P	24 00.00	5.3X
	Z 19s		0.29um		3.7Msz
LRM	21.94	353	eP	24 03.40	-2.4X
			e	24 10.20	
GBTN	24.10	56	(P)	24 15.35	-11 4X
LON	24 99	338	(P)	24 36.47	1.1
ULM	27.99	18	eP	25 09.00	6 1X
RSNY	34.48	45	P	26 00.00	-0.2
	Z 22s		0.07um		3.3Msz
HRV	35.72	50	P	26 10.00	-0.8
	Z 21s		0.05um		3.3Msz
FCC	36.20	13	eP	26 17.50	2.9X
			pP	26 23.50	20kmX
JAQ	38.62	31	eP	26 31.00	-4.0X
HON	45.41	277	P	27 30.00	-1.0
	Z 18s		0.12um		3.9Msz
INK	46.79	348	eP	27 39.00	-2.3
SDN	49.05	324	P	28 00.00	1 0
	Z 20s		2.38um		5.2MszX
ZOBO	56.33	131	P	28 55.00	0 5
LPB	56.53	132	eP	28 57.00	1.3
CNCB	56.81	132	P	28 53.00	-4.9X
MOCB	61.49	134	P	29 32.60	2.5X

S.D. = 1.1 on 20 of 35 obs.

MAY 29, 1993 14h 19m 16.82± 0.48s
38.219 N ± 5.1km 22.799 E ± 4.4km
DEPTH = 31.8 ± 4.4 km
3.8mb (10 obs.)
GREECE (364)
ML 3.7 (ATH).

ATH	0.76	108	ePg	19 31.60	0.4
			eSg	19 45.00	
AGG	0.88	336	ePg	19 31.26	-1.7
			eSg	19 42.21	
VLI	1.50	176	ePb	19 41.50	-0.3
VLS	1.74	269	ePb	19 45.80	0.5
PAIG	1.84	22	iPb	19 46.62	-0.1
			eSb	20 10.66	
LIT	1.89	353	iPb	19 47.37	-0.2
			eSb	20 11.21	
KZN	2.23	339	ePn	19 52.60	0.2
OUR	2.30	23	iPn	19 53.26	0.0
			eSn	20 22.31	
IGT	2.33	305	ePn	19 53.78	0.1
THE	2.41	3	ePn	19 54.55	-0.4
SOH	2.63	9	iPn	19 58.30	0.2
SRN	2.74	308	ePn	20 00.60	1.1
GRG	2.75	354	ePn	19 59.02	-0.7
KEK	2.77	303	ePn	20 00.90	0.9
FNA	2.79	337	ePn	20 00.26	0.0
PRK	2 90	68	ePn	20 02.90	1.1
KNT	2.94	1	iPn	20 02.46	0.1
			eSn	20 37.89	
SRS	2.96	12	iPn	20 02.33	-0.3
			eSn	20 38.92	
TPE	3.00	315	iPnd	20 06.50	3.3X
VAM	3.02	158	ePn	20 06.20	2.6X
VAY	3.10	357	iPn	20 04.60	-0.1
OHR	3.28	333	iPn	20 07.50	0.3
			i	20 20.00	
			i	20 49.60	
			i	20 54.30	
VLO	3.41	312	ePn	20 14.80	5.8X
RDO	3.61	35	ePn	20 11.30	-0.5
ALN	3.67	42	ePn	20 11.94	-0.7
NPS	3.72	142	ePb	20 24.50	11.1X
NPS	3.72	142	ePn	20 14.50	1.1
TIR	3.86	325	ePn	20 20.50	5.2X
PHP	3.91	333	ePn	20 19.30	3.2X
CIN	4.23	97	eP	20 16.00	-4.6X
SDA	4.59	328	ePn	20 34.60	8.8X
ROI	5.04	287	P	20 30.80	-1.5
TDS	5.24	288	P	20 37.00	2.0
ACI	5.28	284	P	20 34.70	-0.8
CSI	5.30	289	P	20 34.80	-1.1
CZI	5.31	283	P	20 34.90	-1.0
ATN	5.78	272	P	20 40.40	-2.3X
			eSn	21 45.60	
MGR	5.95	291	P	20 43.30	-1.7
SGO	6.26	294	P	20 48.10	-1.2
CMP	7.24	13	ePd	21 05.00	1.9
DUI	7.27	301	P	21 04.50	0.8
MLR	7.64	17	eP	21 07.00	-1.7
SDI	7.73	300	P	21 09.90	-0.1
VRI	8.18	20	ePc	21 17.00	0.7
MNS	8.78	301	P	21 30.50	5.9X
PTJ	9.20	329	eP	21 26.80	-3.6X
GEC2	12.49	331	Pn	22 13.30	-1.9
	0.7s		0.56nm		3.8mb
KHC	12.78	332	eP	22 15.00	-3.9X
			e	22 21.50	
			e	23 43.50	
CLL	14.80	335	eP	22 53.00	7.5X
HAU	15.46	314	eP	22 57.80	3.7X
	0 8s		7.40nm		4.0mb
SMF	16 31	307	eP	23 06.40	1.5
	0.9s		7.20nm		3.8mb
LBF	16 36	308	eP	23 08.50	2.8X
LOR	16.56	309	eP	23 10.10	2.0
SSF	16 69	308	eP	23 11.40	1.7
	0.7s		3.00nm		3.5mb
BGF	16 90	306	eP	23 14.20	1.8
	0.8s		7.40nm		3.9mb
MAF	16.96	305	eP	23 14.90	1.8
	0 8s		4.45nm		3.6mb
O8N	19.30	25	eP	23 43.00	1.2
	Z 20s		0.20um		
HFS	22 69	348	eP	24 13.50	-3.0X
	0.3s		0.70nm		3.6mb
	Z 15s		0.03um		2.8MszX
			LR	29 56.00	
NB2	23.97	346	P	24 27.60	-1.4
	0.8s		2.70nm		3.8mb
EKA	24.46	323	Pd	24 32.40	-1.3
	1.0s		9.20nm		4.3mb
BCAO	33.85	188	ePc	25 57.00	-1.6
	0.7s		6.00nm		4.6mb
			id	26 04.00	

S.D. = 1.2 on 45 of 61 obs.

? MAY 29, 1993 14h 32m 03.51± 1.09s
11.180 N ± 8.8km 61.633 W ±21.1km
DEPTH = 33.0km (normol)
WINDWARD ISLANDS (95)
MD 3.0 (TRN).

TCE	0.49	194	eP	32 14.27	0.2
			eS	32 22.71	
TRN	0.57	157	eP	32 14.46	-0.7
			eS	32 23.06	
TPP	0 88	168	eP	32 15.63	-3.8X
			eS	32 24.27	
TBH	0.89	141	eP	32 20.14	0.5
			eS	32 32.68	
GRW	0.97	358	eP	32 20.92	0.0
			eS	32 35.54	

S.D. = 0.9 on 4 of 5 obs.

? MAY 29, 1993 14h 39m 15.07±10.93s
38.729 N ±90.2km 22.729 E ±10.4km
DEPTH = 10.0km (geophysicist)
GREECE (364)

AGG	0.43	313	ePg	39 23.62	-0.2
			eSg	39 36.74	
LIT	1.38	352	iPb	39 41.02	0.6
PAIG	1.41	31	ePn	39 41.00	0.3
OUR	1.87	31	ePn	39 47.30	-0.1
SOH	2.14	13	ePn	39 51.50	0.1
KNT	2.43	3	ePn	39 55.54	0.1
SRS	2.48	15	ePn	39 55.18	-0.9

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

MAY 29, 1993 14h 44m 24.14± 0.81s
4.663 S ± 3.5km 153.168 E ± 4.8km
DEPTH = 58.9 ± 6.8 km
5.3mb (32 obs.)
NEW IRELAND REGION, P.N.G. (190)
Mw 5.2 (HRV).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 35S, 46C
Centroid Location:
Origin Time 14:44:26.0 0.5
Lat 4.71S 0.04 Lon 153.13E 0.05
Dep 54.4 4.2 Half-duration 1.0
Moment Tensor; Scale 10**16 Nm
Mrr= 4.85 0.25 Mtt=-3.73 0.38
Mff=-1.13 0.45 Mrt= 6.24 0.44
Mrf= 3.36 0.44 Mtf= 0.11 0.32
Principal Axes:

T	Val= 9.05	Plg=59	Azm=326
N	-1.66	8	69
P	-7.39	30	163

Best Double Couple:Mo=8.2*10**16
NP1:Strike=275 Dip=17 Slip= 117

NP2: 67 75 82

RAB 1.11 295 iPd- 44 46.00 2.3
PMG 7.60 231 eP 46 15.00 0.3
eS 47 39.00
HNR 8.23 126 eP 46 22.00 -1.4
e(S) 48 03.00
CTA 16.75 203 iPd 48 16.00 -0.3
i 48 35.00
GUA 19.85 336 e(P) 48 55.20 2.0
0.9s 363.03nm 5.7mb
GUMO 19.92 336 e(P) 48 50.10 -3.7X
1.1s 425.20nm 5.7mb
Z 26s 1.32um 4.4Msz
e 48 54.20
e 48 57.90
PJG 19.92 336 e(P) 48 55.10 1.3
DZM 21.56 145 iPc 49 10.60 -0.1
SWI 22.20 279 ePd 49 17.00 0.0
BRS 22.61 181 iPd 49 22.00 1.1
1.5s 6.00nm 3.8mb X
MTN 23.23 248 eP 49 25.00 -2.1
0.3s 102.00nm 5.7mb
QLP 23.41 200 iPd 49 29.10 0.4
WB2 23.80 229 iPc 49 32.90 0.3
0.3s 98.10nm 5.8mb
eS 53 46.00
ARMA 25.66 183 iPd 49 50.30 0.0
1.0s 30.00nm 4.8mb
KNA 26.38 244 eP 49 55.80 -1.2
0.4s 85.00nm 5.7mb
ASPA 26.50 223 eP 49 58.70 0.7
0.7s 24.60nm 4.9mb
Z 23s 0.70um 4.1MszX
eS 54 25.30
STK 29.17 201 eP 50 21.10 -1.0
0.9s 2.40nm 3.8mb X
i 50 33.70
BWA 29.94 188 eP 50 47.60 18.6X
CAN 30.75 187 e(P) 50 35.80 -0.3
WARB 33 20 227 eP 50 50.90 -6.7X
MBL 36.27 240 eP 51 22.00 -1.9
0.5s 35.00nm 5.5mb
BAG 38.43 304 eP 51 42.10 -0.2
MEEK 39.58 233 eP 51 50.50 -1.1
KAGJ 41.51 331 eP 52 07.90 0.6
KUMJ 42.65 332 eP 52 17.10 0.5
MAT 43.31 342 iPc 52 19.90 -2.0
1.0s 10.00nm 4.5mb
eS 59 17.00
SHNJ 43.84 333 eP 52 26.00 -0.2
YAMJ 44.33 345 eP 52 29.90 -0.3
OFUJ 44.80 347 eP 52 33.70 -0.2
LEM 45.36 265 iPd 52 37.70 -1.3
SSE 46.86 321 Pc 52 50.20 -0.1
1.2s 30.00nm 5.1mb
Z 20s 0.50um 4.5Msz
i 53 09.00
S 00 08.00
MRRJ 48.14 348 P 52 59.90 -0.2
KUSJ 48.15 352 eP 52 59.40 -0.8
ASAJ 49.47 350 iP+ 53 10.70 0.3
YSS 52.28 351 (P) 53 30.00 -1.7
IPM 52.89 279 ePd 53 35.90 -0.9
LOE 55.30 295 eP 53 54.10 -0.3
BJI 55.98 326 eP 53 57.00 -1.9
Z 24s 0.64um 4.6MszX
NST 56.24 292 eP 54 01.40 0.3
KMI 57.21 304 Pc 54 08.50 0.3
1.5s 70.00nm 5.5mb
pP 54 26.50 69kmX
CHTO 58.26 295 iPc 54 15.00 -0.4
1.1s 15.90nm 5.1mb
LZH 61.39 316 iPc 54 37.00 0.2
1.5s 107.00nm 5.8mb
CIT 65.70 334 eP 55 05.00 0.4
SHL 66.55 300 iPc 55 10.40 -0.4
YAK 68.89 348 iPc 55 24.00 -0.4
1.5s 99.00nm 5.5mb
ZAK 69.57 329 iPc 55 28.60 -0.1
1.5s 35.00nm 5.1mb
e 55 51.50
BOD 69.75 339 iPc 55 28.40 -1.4
1.2s 27.00nm 5.1mb
MCY 71.50 329 eP 55 40.90 0.4
1.4s 36.00nm 5.1mb
GUN 72.36 301 P 55 46.00 -0.6

PKI 72.68 301 P 55 48.00 -0.4
KKN 72.85 301 P 55 48.60 -0.7
0.6s 32.00nm 5.4mb
DMN 72.95 301 P 55 49.60 -0.3
0.6s 32.00nm 5.4mb
GKN 73.45 301 P 55 52.20 -0.5
ILT 75.06 11 iPc 56 01.00 0.1
SVW 76.55 23 eP 56 09.77 0.2
0.7s 10.22nm 4.9mb
HYB 76.79 289 ePc 56 11.00 -0.8
1.0s 60.00nm 5.5mb
GBA 77.29 285 P 56 15.00 0.5
TTA 77.51 21 eP 56 14.44 -0.5
0.8s 4.36nm 4.5mb
TIK 77.80 352 iPc 56 15.00 -1.2
1.6s 65.00nm 5.4mb
e 56 28.00
CP2 77.97 24 eP 56 16.11 -1.6
SLKM 78.39 25 iPc 56 18.70 -1.1
PMR 79.41 24 eP 56 24.08 -1.1
0.8s 8.32nm 4.7mb
ELT 80.19 326 iPc 56 29.20 -0.3
1.4s 65.00nm 5.4mb
e 06 41.00
IMA 80.21 19 eP 56 29.30 -0.3
0.9s 5.39nm 4.5mb
KLU 80.70 25 eP 56 31.81 -0.4
FBA 81.62 22 ePc 56 35.34 -1.5
0.8s 9.45nm 4.8mb
BALM 82.04 26 eP 56 38.86 -0.4
FRU 84 79 314 eP 56 55.00 1.5
1.8s 160.00nm 5.8mb
e 57 06.00
SPA 85.36 180 iPd 56 56.80 0.7
1.0s 30.00nm 5.4mb
NRI 85.80 341 iPc 56 57.00 -1.0
1.8s 51.00nm 5.4mb
e 57 07.00
INK 88.20 21 eP 57 10.00 0.4
1.0s 4.00nm 4.6mb
QUE 89.05 300 eP 57 15.30 0.5
SVE 95.26 327 ePc 57 42.00 -0.6
1.9s 40 00nm 5.5mb
MAIO 95.69 306 eP 57 45.00 -0.1
HFS 116.69 339 ePKP 03 01.50 -1.6
0.4s 0.90nm
NB2 116.91 340 PKP 03 09.00 5.5X
0.9s 5.00nm
SPC 120.42 326 ePKP 03 12.00 1.2
KSP 121.58 329 ePKP 03 13.40 0.7
SRO 122.24 326 iPKP 03 14.60 0.6
ZST 122.70 327 ePKP 03 15.30 0.4
BRG 122.73 331 iPKP 03 15.00 0.2
1.0s 26.00nm
CLL 122.91 331 iPKPd 03 15.90 0.7
1.2s 30.00nm
PRU 122.99 329 PKP 03 16.00 0.6
MOX 124.00 331 ePKPc 03 17.70 0.3
1.3s 13.00nm
KHC 124.01 329 PKP 03 18.00 0.5
1.0s 10.50nm
e 03 33.00
e 04 10.00
GEC2 124.13 329 PKP 03 18.10 0.3
0.9s 12.28nm
e 03 22.00
e 03 33.10
GRF 124.83 331 iPKPc 03 19.40 0.4
Z 22s 0.10um 4.4Msz
WTS 125.21 335 ePKP 03 20.00 0.4
1 0s 25.60nm
VBY 125.28 325 e(PKP)03 20.50 0.5
LJU 125.38 326 e(PKP)03 20.50 0.3
CEY 125.62 325 e(PKP)03 20.50 -0.2
VOY 125.75 326 e(PKP)03 18.40 -2.7
EKA 126.01 344 PKP 03 21.00 -0.1
0.9s 7.40nm
ENN 126.49 335 iPKPd 03 23.00 0.8
1.0s 25.00nm
WLF 127.20 334 iPKPc 03 24.31 0.8
OSS 127.36 329 ePKPc 03 24.50 0.3
SNF 127.37 335 iPKPc 03 24.23 0.4
SLE 127.46 331 ePKPd 03 24.10 -0.1
DOU 127.56 335 PKP 03 25.00 0.8
CDF 127.59 332 ePKP 03 24.10 -0.4
1.2s 14.90nm
LLS 127.82 329 ePKPd 03 25.40 0.3

SGO 127.98 320 PKP 03 25.00 -0.3
SFI 128.17 325 PKP 03 26.40 0.8
ASS 128.21 324 Pdiffc00 24.30 14.2X
eSg 00 30.30
BSF 128.24 332 ePKP 03 25.50 -0.3
1.1s 34.45nm
HAU 128.32 332 ePKP 03 25.70 -0.1
1.1s 29.80nm
TMA 128.40 329 ePKPc 03 26.10 -0.1
MNS 128.61 323 Pdiff 00 22.60 10.8X
eSg 00 27.40
VAI 128.61 329 PKP 03 26.10 -0.2
SOI 128.75 316 PKP 03 27.50 0.6
BDI 128.80 326 PKP 03 25.60 -1.3
MMK 128.90 329 ePKPc 03 28.70 1.4
DIX 129.16 330 ePKPc 03 28.40 0.6
LPL 129.89 330 ePKP 03 29.40 0.2
0.9s 9.65nm
LPG 129.90 330 ePKP 03 29.60 0.3
0.8s 8.20nm
LOR 130.01 333 ePKP 03 29.30 0.3
1.1s 17.60nm
LBF 130.16 333 ePKP 03 29.50 0.1
SMF 130.48 332 ePKP 03 30.20 0.3
1.1s 18.30nm
AVF 130.59 333 ePKP 03 30.00 -0.1
0.8s 4.05nm
LDF 130.66 337 ePKP 03 30.30 0.1
1.5s 51.20nm
FLN 130.66 337 ePKP 03 30.30 0.1
0.8s 20.95nm
PGF 130.66 325 ePKP 03 30.80 0.3
1.1s 34.45nm
GRR 131.11 337 ePKP 03 31.60 0.6
0.6s 7.30nm
FRF 131.29 328 ePKP 03 31.70 0.1
1.1s 24.40nm
MAF 131.38 333 ePKP 03 32.20 0.5
LPF 131.47 337 ePKP 03 32.20 0.5
0.8s 19.90nm
TCF 131.49 333 ePKP 03 32.30 0.4
1.0s 25.40nm
LRG 131.51 328 ePKP 03 32.40 0.5
1.0s 24.00nm
LMR 131.51 328 ePKP 03 32.30 0.3
0.9s 13.85nm
LSF 131.82 334 ePKP 03 32.80 0.3
1.2s 16.35nm
MFF 132.26 335 ePKP 03 33.80 0.5
1.1s 17.85nm
LPO 133.18 333 ePKP 03 36.10 1.0
0.8s 8.85nm
MOCB 134.06 126 PKP 03 38.80 0.7
ZOBO 134.17 118 PKP 03 29.00 -9.5X
BCAO 134.78 272 ePKPd 03 31.00 -8.1X
0.7s 9.00nm
id 03 37.70
RSTA 143.73 144 ePKP 03 50.60 -4.4X
PPD 144.25 139 ePKP 03 54.20 -1.8
e 03 57.40
IFR 144.89 328 iPKPc 03 57.50 0.5
VAO 146.19 145 ePKP 04 00.60 1.3
AVE 146.24 330 iPKP 04 00.00 1.0
TIO 148.03 327 iPKPd 04 06.50 4.4X
BAO 150.92 134 ePKP 04 08.00 1.1
i 04 12.20

S.D. = 0.8 on 132 of 142 obs.

MAY 29, 1993 14h 51m 25.19± 0.26s
10.055 S ± 5.5km 161.000 E ± 5.5km
DEPTH = 63.4km (8 depth phoses)
5.0mb (27 obs.)
SOLOMON ISLANDS (193)

HNR 1.21 301 iPd 51 48.50 2.1
iS 52 06.00
SVO 1.47 307 iP 51 52.00 2.0
iS 52 10.00
DZM 13.04 157 iPc 54 27.90 -1.6
iS 56 40.00
CTA 17.37 233 iPd 55 26.50 1.5
1.0s 50.00nm 4.7mb
i 55 53.00
ARMA 22.06 202 eP 56 18.10 1.8
1.0s 19.00nm 4.5mb
QLP 22.83 222 eP 56 30.40 6.6X
BWA 26.85 203 eP 57 01.90 0.1

29d 14h

		i	57	16.40	60km	
CAN	27.43	202 eP	57	06.90	-0.1	
		e	57	23.30	70km	
WB2	27.51	246 eP	57	07.40	-0.5	
	0.4s	11.80nm		4.8mb		
		eS	00	41.70		
STK	28.19	217 eP	57	26.00	12.1X	
	0.2s	2.60nm				
		i	57	32.30	22kmX	
ASPA	29.18	239 eP	57	20.90	-2.1	
	0.5s	7.10nm		4.6mb		
	Z 23s	0.60um		4.1MszX		
		eS	00	45.20		
TOO	30.76	205 eP	57	41.50	4.8X	
KNA	31.90	256 eP	57	46.80	-0.2	
WARB	36.23	239 eP	58	17.00	-7.1X	
MBL	41.04	249 eP	59	04.10	-0.1	
	0.4s	15.00nm		5.1mb		
MEEK	43.24	242 iPd	59	22.60	0.4	
	0.6s	16.00nm		5.0mb		
TKSJ	50.73	331 P	00	20.90	0.2	
MAT	51.07	336 iPc	00	21.80	-1.5	
	0.8s	8.21nm		4.8mb		
YONJ	51.99	331 P	00	30.10	-0.2	
LEM	52.86	269 iPd	00	37.50	0.2	
KUSJ	54.95	345 eP	00	50.70	-1.2	
SSE	55.96	318 Pc	00	58.80	-0.6	
	1.0s	11.00nm		4.8mb		
		i	01	11.00	43kmX	
ASAJ	56.43	344 P	01	02.50	-0.1	
YSS	59.11	346 eP	01	20.00	-1.3	
ADK	64.62	15 eP	01	57.84	-0.3	
	0.8s	37.93nm		5.4mb		
BJI	64.84	323 eP	01	57.50	-2.2	
KMI	66.65	303 Pd	02	12.00	0.1	
	1.5s	40.00nm		5.2mb		
	Z 26s	1.20um		5.0MszX		
		pP	02	24.50	43kmX	
LZH	70.67	314 Pd	02	37.00	0.4	
	1.5s	40.00nm		5.1mb		
	Z 22s	0.51um		4.7Msz		
		pP	02	50.00	45kmX	
		sP	02	54.00		
CIT	73.99	332 eP	02	56.00	0.3	
YAK	75.87	345 iPc	03	05.50	-0.7	
	1.0s	30.00nm		5.2mb		
KDC	77.46	23 eP	03	14.60	-0.5	
ZAK	78.26	326 iPc	03	19.60	0.0	
	0.9s	29 00nm		5.2mb		
		e	03	32.70	45kmX	
SVW	78.70	20 ePc	03	22.31	0.4	
	0.9s	82.97nm		5.7mb		
		epP	03	39.92	64km	
ILT	79.11	8 iPc	03	23.20	-0.7	
	1.2s	31.00nm		5.1mb		
		i	03	32.00	28kmX	
TTA	79.90	18 eP	03	28.69	0.2	
	0 8s	8.78nm		4.7mb		
CRP	80.00	21 eP	03	28.89	-0.2	
		epP	03	46.15	62km	
SPA	80.01	180 iPc	03	27.70	-1.4	
	0.7s	9 77nm		4.8mb		
SLKM	80.19	22 eP	03	29.45	-0.5	
PMR	81.30	22 ePd	03	35.25	-0.5	
	0.8s	18.91nm		5.1mb		
		epP	03	53.12	65km	
GUN	81.78	300 P	03	53.00	13.6X	
PKI	82.09	300 P	03	43.20	2.2	
DMN	82.35	300 P	03	45.00	2.7X	
GKN	82.86	300 P	03	42.40	-2.4	
IMA	82.87	17 eP	03	44.00	0 0	
	1.0s	11.20nm		4.8mb		
BALM	83.57	24 eP	03	47.15	-0.5	
		epP	04	05.42	66km	
FBA	83.90	20 ePc	03	47.90	-1.2	
	0.8s	18.20nm		5.2mb		
		epP	04	05.05	61km	
TIK	84.27	350 iPc	03	50.00	-0.8	
	1.6s	39.00nm		5.2mb		
ARN	86.24	51 eP	04	02.13	0.7	
LGPM	86.26	48 eP	04	02.42	0.9	
WDC	86.38	48 eP	04	02.72	0.8	
	1.2s	14.69nm		5.0mb		
		e	04	24.58	80kmX	
LBFM	87.06	47 eP	04	05.80	0.3	
GMW	88.20	41 (P)	04	10.53	0.0	
ISA	88.21	53 eP	04	11.32	0.4	

	0.8s	4.63nm			4.7mb	
MMPM	88.24	51 eP	04	11.90	0.5	
PEC	88.85	55 eP	04	14.09	0.0	
	0.9s	11.21nm			5.1mb	
PLM	88.98	56 eP	04	15.30	0.5	
ELT	89.02	325 eP	04	13.00	-1.2	
	1.1s	10.00nm			5.0mb	
KVN	89.29	50 eP	04	17.63	1.4	
GSC	89.45	54 eP	04	17.54	0.6	
GLA	90.58	57 eP	04	23.00	0.9	
DPW	91.27	42 eP	04	24.78	-0.2	
NEW	92.07	41 ePc	04	28.37	-0.3	
	0.8s	22.32nm			5.6mb	
		epP	04	45.58	60km	
ARUT	92.60	52 eP	04	32.61	1.1	
MSU	93.71	52 eP	04	37.53	0.9	
TUC	93.80	58 eP	04	37.67	0.7	
	0.9s	5.21nm			5.0mb	
LRM	94.73	44 eP	04	41.50	0.3	
PV08	96.46	52 eP	04	50.76	1.4	
CNCB	124.69	118 Pdiff	07	06.00	9.8X	
LPB	124.71	118 Pdiff	07	03.00	6.9X	
ZOBO	124.80	118 Pdiff	07	03.00	6.3X	
	1.2s	10.81nm				
	Z 24s	0.10um			4.4MszX	
		LR	48	56.00		
CCH	126.03	120 ePdiff	07	10.00	8.1X	
BCAO	142.37	264 ePKPd	10	48.40	-5.1X	
	1.0s	15.00nm				
	S.D. = 1.0	on 61 of 72 obs.				

& MAY 29, 1993 15h 49m 51.11s
40 800 N 123.896 W
DEPTH = 24.7km
NORTHERN CALIFORNIA (36)
<GM-P>. MD 3.2 (GM).

FHC	0.07	271 iPc	49	55.47	-0.1
KBRM	0.08	213 P	49	55.56	-0.2
KHMM	0.15	59 P	49	56.24	-0.1
KGMM	0.17	104 P	49	56.66	0.0
KRPM	0.37	345 P	49	58.84	-0.4
KMPM	0.42	204 ePc	49	59.84	-0.2
		eS	50	05.77	
KCTM	0.47	226 P	50	00.50	-0.2
KHBM	0.53	105 P	50	01.50	-0.5
KOMM	0.58	35 P	50	02.03	-0.7
KBBM	0.60	177 P	50	02.74	-0.3
KPPM	0.61	138 P	50	02.90	-0.3
KSMM	0.65	199 P	50	03.12	-0.7
KRMM	0.72	359 P	50	03.86	-1.2
LGPM	0.82	82 ePc	50	05.40	-1.3
KBSM	0.91	165 P	50	07.21	-1.0
KSXM	1.03	1 P	50	08.18	-1.9
KIPM	1.04	162 P	50	09.18	-1.1
WDC	1.05	102 ePc	50	08.89	-1.4
		eS	50	21.90	
KFPM	1.21	163 P	50	11.07	-1.6
LHEM	1.51	56 P	50	16.57	-0.5
LBFM	1.61	70 ePc	50	17.95	-0.5
GNAM	1.61	173 P	50	15.85	-2.5
LMEM	1.79	98 eP	50	20.57	-0.5
LSLM	1.83	101 P	50	20.70	-0.9
LHKM	2.03	100 P	50	29.84	5.3
ORV	2.22	123 eP	50	26.73	-0.3
ABJM	2.64	127 P	50	34.50	1.4
	27 obs. associated				

? MAY 29, 1993 16h 15m 16.00± 5.23s
35.498 S ±43.0km 70.769 W ±24.4km
DEPTH = 10.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)
MD 3.7 (SAN).

CHCH	1.56	4 iP	15	42.41	-1.5
		iS	16	01.80	
LNV	1.63	341 iP	15	44.21	-0.5
		iS	16	04.86	
TACH	1.85	356 iP	15	47.40	-0.6
		iS	16	10.74	
PCH	1.88	6 iP	15	47.97	-0.6
		iS	16	11.60	
RFA	2.02	70 iPd	15	50.60	0.0
		S	16	14.80	
LCCH	2.12	342 iP	15	52.30	0.3
		iS	16	19.02	
FCH	2.20	10 iP	15	53.92	0.5
		iS	16	20.24	
PEL	2.35	2 (P)	15	57.55	2.2X
		(S)	16	27.42	
ROCH	2.53	355 iP	15	59.10	1.1
		iS	16	30.22	
JACH	2.81	3 (P)	16	03.29	1.4
		(S)	16	38.89	
	S.D. = 1.1	on 9 of 10 obs.			

& MAY 29, 1993 16h 26m 33.21s
33.197 N 115.596 W
DEPTH = 4.3km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 2.9 (PAS).

GLA	0.66	102 ePn	26	42.00	-4.4
		ePg	26	45.15	
PLM	1.07	279 eP	26	51.92	-2.1
		eS	27	06.88	
PEC	1.48	298 eP	26	58.36	-2.3
SSK	2.02	301 eP	27	06.26	-2.3
		eS	27	32.15	
GSC	2.33	335 (Pn)	27	11.59	-1.3
		ePg	27	16.61	
TUC	4.15	101 (Pn)	27	36.22	-2.6
ARUT	4.91	20 (Pn)	27	45 66	-4.0
		ePg	28	03.59	
BONR	5.23	336 (Pn)	27	55.00	0.6
		ePg	28	11.53	
MSU	5.99	27 (Pn)	28	04 49	-0.5
	9 obs. ossociated				

& MAY 29, 1993 16h 30m 07.37s
33.195 N 115.591 W
DEPTH = 4.5km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 2.8 (PAS).

GLA	0.66	102 eP	30	18.63	-1.9
PLM	1.08	279 eP	30	26.22	-2.0
PEC	1.48	298 eP	30	31.82	-3.0
SSK	2 02	301 ePn	30	39.96	-2.8
		eS	31	04.11	
GSC	2.33	335 ePn	30	47.32	0.2
		ePg	30	50.94	
	5 obs. associated				

• MAY 29, 1993 16h 33m 52.34± 1.15s
24.275 S ±14.9km 67.236 W ±12.5km
DEPTH = 208.9 ± 15.2 km
CHILE-ARGENTINA BORDER REGION (127)

SLA	1.65	106 iPd	34	27.90	-0.8
		S	34	53.30	
HJA	1.98	58 ePd	34	32.80	1.2
FSA	2.12	149 iPd	34	32.60	-0.4
		(S)	35	01.20	
ANT	2.96	280 iP+	34	43.00	0.6
		iS	35	19.40	
ZOBO	8.01	354 P	35	46.30	-1.0
VAO	18.61	90 (P)	37	57.00	0.4
	S.D. = 1.3	on 6 af 6 obs.			

• MAY 29, 1993 16h 55m 11.02± 3.52s
2.464 N ±11.2km 128.599 E ±16.8km
DEPTH = 194.6 ± 38.3 km
4.8mb (6 obs.)
HALMAHERA, INDONESIA (267)

MTN	15.42	171 eP	58	40.00	0.1
KNA	18.10	179 eP	59	10.80	-0.1
WB2	22.97	166 iPc	59	59.70	0.1
	0.4s	29.10nm		5.2mb	
ASPA	26.48	169 iPc	00	31.50	-0.7
	0.7s	17.80nm		4.9mb	
MAT	35.05	14 iPd	01	46.20	-0.9
	0.8s	11.94nm		4.6mb	
STK	36.32	161 iPd	01	57.60	-0.1
	1.1s	5.40nm		4.1mb	
ARMA	39.40	148 eP	02	24.50	0.9
LZH	40.54	329 Pd	02	34.60	1.7
	1.5s	40.00nm		4.7mb	
GUN	47.97	306 P	03	32.60	0.0
	0.6s	21.00nm		4.8mb	
PKI	48.22	305 P	03	34.20	-0.3
KKN	48.41	306 P	03	35.40	-0.4
DMN	48.48	305 P	03	36.40	0.0

GKN 49.02 306 P 03 40.20 -0.2
S.D. = 0.8 on 13 of 13 obs.

% MAY 29, 1993 17h 12m 11.58± 0.61s
26.957 S ± 6.1km 26.766 E ± 6.7km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.7 (PRE).

BFS 0.06 16 eP 12 13.30 0.0
S 12 13.70
PRY 0.63 88 iPc 12 23.70 -0.5
S 12 30.80
KSR 1.09 6 eP 12 32.50 -0.2
S 12 44.00
SWZ 1.30 260 eP 12 36.10 -0.2
S 12 50.90
SEK 1.56 151 iPd 12 43.70 3.5X
S 13 03.00
SLR 1.82 49 iPd 12 44.70 0.7
S 13 06.00
BLF 2.20 193 eP 12 50.20 0.7
S 13 18.00
FRS 3.06 204 eP 13 01.00 -0.5
S 13 35.00
S.D. = 0.6 on 7 of 8 obs.

? MAY 29, 1993 17h 29m 40.06± 1.75s
42.854 N ± 7 9km 13.386 E ±17.9km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

AQU 0.50 179 P 29 50.20 0.0
eSg 29 57.20
ASS 0.57 292 P 29 51.70 -0.1
eSg 30 00.80
MNS 0.70 228 P 29 54.00 0.1
eSg 30 03.70
ARV 0.72 333 P 29 54.30 0.0
eSg 30 06.40
S.D. = 0.1 on 4 of 4 obs.

% MAY 29, 1993 17h 43m 38.83± 1.25s
61.532 N ±12.9km 1.981 E ± 9.1km
DEPTH = 10.0km (geophysicist)
NORWEGIAN SEA (642)
MD 2.7 (BER).

FOO 1.47 86 eP 44 06.11 0.8
eS 44 23.69
ASK 1.89 123 eP 44 11.80 0.5
eSg 44 34.15
EGD 2.03 127 eP 44 13.41 0.0
eSg 44 37.65
HYA 2.06 98 eP 44 14.28 0.4
eSg 44 38.74
LRW 2.09 229 eP 44 14.33 0.1
eS 44 38.10
MOL 2.82 66 eP 44 24.38 -0.4
eS 44 56.83
KMY 2.84 144 eP 44 24.51 -0.4
eS 44 55.35
NRA0 4.70 96 Pn 44 50.47 -1.0
Sn 45 43.85
S.D. = 0.7 on 8 of 8 obs.

MAY 29, 1993 18h 03m 58.57± 0.33s
51.675 N ± 7.0km 173.154 W ± 3.9km
DEPTH = 33.0km (normol)
4.6mb (32 obs.) 4.2Msz (2 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS. (7)
ML 5.0 (PMR).

ADK 2.20 277 eP 04 33.64 0.1
(S) 04 57.69
SDN 8.39 59 eP 06 01.12 0.4
KDC 13.37 55 (P) 07 07.10 -1.2
0.5s 6.83nm 4.8mb
SVW 13.50 39 eP 07 11.14 1.1
0 8s 14.14nm 4.9mb
TTA 14.53 33 eP 07 21.85 -1.7
0 9s 11.04nm 4.4mb
CP2 14.95 42 eP 07 26.78 -2.4
CRP 14.99 42 eP 07 30.57 0.9
SLKM 15.48 46 eP 07 35.51 -0.3
PMS 16.09 44 e(P) 07 41.10 -2.5
e 07 45.70

PMR 16.43 44 eP 07 49.16 1.3
0.4s 4.54nm 4.0mb
ILT 16.50 353 iPc 07 51.20 2.5
1.0s 10.00nm 3.9mb
PET 17.24 286 eP 08 06.00 7.9X
Z 20s 0.40um
IMA 17.47 27 eP 08 00.46 -0.6
0.8s 3.84nm 3.6mb X
KLU 17.79 46 eP 08 03.80 -1.2
FBA 18.61 35 eP 08 15.07 0.2
0.5s 3.65nm 3.8mb
BALM 19.29 49 eP 08 20.23 -3.1X
BRW 21.04 15 (P) 08 40.13 -1.3
INK 25.22 34 ePd 09 23.70 1.4
0.6s 10.00nm 4.6mb
YSS 28.78 278 eP 09 55.00 -0.1
Z 22s 0.50um 4.1Msz
GMW 32.37 77 eP 10 27.05 0.2
LON 33.32 78 eP 10 36.36 1.1
NEW 35.45 73 ePc 10 53.66 0.2
0.6s 16.17nm 5.1mb
e 11 01.34
LBFM 36.07 86 eP 10 59.83 0.8
MAT 37.32 266 (P) 11 08.00 -1.3
1.2s 14.06nm 4.7mb
ARN 38.67 91 eP 11 21.02 0.4
MCMT 39.71 75 ePc 11 29.80 0.3
BOD 40.50 308 eP 11 34.50 -0.9
BCH 40.95 92 eP 11 40.50 0.9
HVU 41.45 79 eP 11 44.55 0.9
BW06 42.83 76 ePc 11 55.25 0.2
0.7s 6.54nm 4.5mb
GSC 42.91 90 ePc 11 56.23 0.6
FCC 43.17 48 ePd 12 04.00 6.7X
DAU 43 18 80 eP 11 58.30 0.3
PLM 44.16 92 eP 12 04.32 -1.6
SRU 44.41 81 ePd 12 08.23 0.3
e 12 20.32
RSSD 45.36 71 ePd 12 14.81 -0.6
0.6s 5.61nm 4.7mb
PV09 45.65 81 eP 12 17.48 -0.4
ULM 46.53 60 eP 12 27.50 3.2X
TUC 48.64 88 ePd 12 40.97 -0.2
0.8s 3.44nm 4.4mb
ZAK 49.77 304 iPd 12 40.50 -9.0X
1.2s 14.00nm 4.9mb
MOY 50.19 306 eP 12 52.90 0.3
FRB 50.88 34 eP 12 57.50 -0.2
0.5s 4.00nm 4.6mb
SSE 51.52 273 P 13 05.20 2.2
i 13 16.50
JAO 54.40 46 eP 13 23.00 -1.2
ELT 56.17 315 eP 13 35.50 -1.5
0.8s 10.00nm 4.9mb
FVM 57.19 69 ePc 13 42.56 -2.0
0.5s 24.43nm 5.5mb
EEO 57.55 55 eP 13 49.50 2.6
LZH 58.65 290 Pc 13 54.80 -0.1
1.5s 54.00nm 5.4mb
Z 20s 0.25um 4.3Msz
GAC 60.01 53 ePc 14 04.50 0.6
RSNY 61.30 54 eP 14 12.42 -0.4
0.6s 5.87nm 4.9mb
NAV 63.14 63 eP 14 24.80 -0.4
SVE 63.18 330 ePc 14 24.00 -1.1
Z 16s 0.40um 4.7MszX
N 16s 0.20um
BLA 63.42 63 (P) 14 27.92 0.9
0.7s 8.05nm 4.9mb
PRM 64.57 67 (P) 14 33.08 -1.5
EMM 64.59 49 ePc 14 33.98 -0.5
LMN 65.00 47 ePc 14 39.50 2.3
KMI 67.15 282 eP 14 51.00 -0.4
1.4s 30.00nm 5.2mb
NB2 67.58 358 P 14 52.20 -1.2
0.9s 1.30nm 4.0mb
HFS 68.41 356 eP 14 57.90 -0.6
0.4s 1.10nm 4.3mb
Z 23s 0.06um 3.8MszX
LR 37 28 00
SHL 73.31 290 iPc 15 28.00 -0.8
GUN 74.96 296 P 15 38.40 -0.1
0.8s 46.00nm 5.5mb
KKN 75.39 296 P 15 40.80 0 0
0.8s 28.00nm 5.3mb
PKI 75.48 296 P 15 41.20 -0.3
GKN 75.58 297 P 15 41.80 0.0

DMN 75.62 296 P 15 42.20 0.0
CLL 77.26 356 e(P) 15 50.00 -0.6
BRG 77.65 355 eP 15 52.80 0.0
MOX 77.98 357 eP 15 55.30 0.7
PRU 78.50 355 eP 15 58.30 0.8
GRF 78.94 357 iPc 16 01.00 1.1
1.0s 6.00nm 4.5mb
KHC 79.41 356 eP 16 03.00 0.5
e 16 16.50
e 16 45.50
GEC2 79.69 355 P 16 04.50 0.4
0.7s 1.50nm 4.1mb
e 16 10.50
e 16 19.40
BSF 80.87 0 eP 16 10.80 0 4
0.6s 1.80nm 4.2mb
SSF 81.60 2 eP 16 14.80 0.7
0.6s 3.70nm 4.6mb
AVF 81.87 2 eP 16 16.00 0.6
SMF 82.03 2 eP 16 16.90 0.6
MAF 82.41 3 eP 16 19.30 1.0
0.8s 4.15nm 4.5mb
QUE 82.95 311 eP 16 23.10 1.5
WRA 84.76 229 P 16 29.60 -0.9
0.6s 1.00nm 4.2mb
WRA 84.76 229 P 16 36.70 6.2X
0.7s 1.80nm 4.4mb
VAY 86.38 348 eP 16 39.60 1.2
HYB 87.35 295 eP 16 43.00 -0.5
ASPA 88.18 227 eP 16 46.40 -0.8
1.0s 7.40nm 4.9mb
BUL 144.21 323 iPKPc 23 31.30 -1.4
S.D. = 1.1 on 78 of 84 obs.

MAY 29, 1993 18h 17m 29.27± 1.04s
32.350 N ± 8.0km 137.780 E ± 9.1km
DEPTH = 352.0 ± 10.2 km
4.2mb (15 obs.)
SOUTH OF HONSHU, JAPAN (211)

MAT 4.20 5 iPc 18 40.90 0.0
eS 19 35.00
BJI 19.02 300 eP 21 27.50 0.1
1.5s 57.00nm 4.7mb
Z 20s 0.30um 4.3Msz
CIT 26.37 325 eP 22 32.00 -4.2X
LZH 28.22 287 eP 22 52.00 -1.0
ZAK 31.17 316 iPd 23 18.70 0.5
1.5s 25.00nm 4.3mb
PKI 45.26 278 P 25 15.00 0.0
0.6s 27.00nm 4.7mb
NDI 51.70 283 iPd 26 03.50 0.0
WB2 52.10 184 iPc 26 06.10 -0.3
0.4s 7.00nm 4.3mb
WRA 52.10 184 P 26 06.70 0.3
0.7s 3.30nm 3.8mb
ASPA 55.82 184 eP 26 33.20 0.0
1.0s 9.80nm 4.2mb
GBA 57.88 266 P 26 49.00 1.3
QUE 59.53 288 eP 26 59.70 0.7
STK 63.99 176 eP 27 26.90 -0.9
0.7s 1.70nm 3.8mb
OBN 70.03 323 iPc 28 05.00 -0.2
0.9s 16.00nm 4.7mb
KAF 71.08 332 eP 28 10.00 -1.3
KIV 71.69 311 iPc 28 16.60 1.2
1.3s 37.00nm 5.0mb
Z 17s 0.10um 4.1MszX
NUR 72.65 332 eP 28 19.70 -0.7
NEW 75.59 42 eP 28 38.29 0.8
0.8s 2.92nm 4.1mb
HFS 77.08 335 eP 28 44.00 -1.3
0.4s 1.50nm 4.1mb
NB2 77.30 336 P 28 46.10 -0.5
0.9s 5.00nm 4.3mb
KSP 82.44 327 eP 29 14.80 1.0
BW06 83.10 43 (P) 29 18.50 0.9
1.0s 1.67nm 3.8mb
CLL 83.60 329 iPc 29 20.00 0.5
SRU 84.77 47 eP 29 26.70 0.7
GEC2 85.04 327 P 29 26.10 -0.9
0.9s 1.18nm 3.7mb
RSSD 85.32 40 eP 29 27.54 -1.1
0.4s 0.68nm 3.9mb
S.D. = 0.9 on 25 of 26 obs.

% MAY 29, 1993 18h 24m 04.69± 0.95s

29d 18h

44.308 N ± 9.5km 8.290 E ± 9.4km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.6 (GEN).

FIN	0.12	211	P	24	07.43	-0.2
			S	24	09.03	
PCP	0.30	38	P	24	10.95	0.0
			S	24	15.48	
ROB	0.30	268	P	24	11.23	0.2
			S	24	15.30	
IMI	0.49	216	P	24	14.94	0.2
ENR	0.63	263	P	24	17.14	-0.3

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

? MAY 29, 1993 18h 55m 31.02± 1.15s
31.736 S ±31.6km 68.786 W ±13.9km
DEPTH = 100.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

CFA	0.48	75	eP	55	47.50	0.5
			S	56	00.00	
RTLL	0.49	34	eP	55	46.70	-0.3
			S	55	58.50	
RTBS	0.57	277	ePd	55	47.50	0.0
			(S)	55	59.90	
MRA	2.70	105	ePd	56	13.20	-0.2

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

& MAY 29, 1993 19h 40m 00.37s
63.307 N 147.534 W
DEPTH = 73.1km
CENTRAL ALASKA (1)
<AEIC>.

RND	0.60	280	iPd	40	14.68	-0.1
			eS	40	25.20	
MCK	0.76	305	iPd	40	16.42	0.0
			eS	40	28.38	
THY	0 81	81	eP	40	17.42	0.4
			S	40	29.69	
PAX	1.00	109	iPc	40	19.01	-0.3
			eS	40	33.20	
HUR	1.01	252	ePd	40	18.97	-0.5
			eS	40	33.02	
HDA	1.13	13	ePc	40	20.97	0.0
			eS	40	36.14	
WRH	1.19	348	ePc	40	21.47	-0.3
			eS	40	37.09	
SDG	1.20	130	iPc	40	21.93	0.0
			eS	40	38.95	
TRF	1.25	278	iPd	40	22.81	0.1
			eS	40	39.41	
CCB	1.35	355	iPc	40	23.37	-0.4
			eS	40	40.16	
NEA	1.45	333	ePd	40	24.67	-0.4
			S	40	42.04	
SCM	1.48	176	ePc	40	25.10	-0.6
			eS	40	45.42	
SML	1.55	194	ePc	40	25.99	-0.6
DOT	1.60	76	eP	40	26.62	-0.5
TZL	1.60	142	eP	40	27.74	0.6
FBA	1.60	356	ePc	40	26.66	-0.6
			eS	40	45.45	
GHO	1.67	203	ePc	40	27.83	-0.4
MDM	1.69	350	ePc	40	28.13	-0.3
			eS	40	47.69	
GLM	1.69	2	iPc	40	28.02	-0.4
			eS	40	47.69	
PLRM	1.87	204	eP	40	31.60	0.7
PMR	1.87	204	eP	40	29.95	-0.9
KLU	1.97	157	ePc	40	32.14	-0.2
			eS	40	58.43	
PWA	1.99	214	P	40	33.00	0.6
TMW	2.05	87	eP	40	32.64	-0.7
MLY	2.23	322	ePc	40	35.35	-0.5
			eS	41	01.71	
VLZ	2.26	165	eP	40	35.28	-0.8
			eS	41	02.00	
SHT	2.28	236	ePd	40	35.99	-0.5
			eS	41	03.46	
PMS	2.28	205	P	40	37.00	0.5
SUA	2.38	220	ePc	40	38.43	0.4
PPP	2.39	21	eP	40	38.15	0.0
			eS	41	06.19	
PTE	2.55	197	eP	40	40.06	-0.2
GLB	2.55	136	ePd	40	39.72	-0.6
			eS	41	10.83	
CGLM	2.90	228	eP	40	45.53	0.4
CVA	2.90	162	eP	40	44.91	-0.1
MPA	2.96	198	eP	40	46.06	0.1
HIN	2.96	170	eP	40	44.92	-1.1
CRP	2.98	229	eP	40	47.51	1.2
CPAM	2.98	228	eP	40	47.35	1.0
SPU	3.00	227	eP	40	48.07	1.4
CP2	3.01	229	eP	40	47.41	0.6
CKN	3.02	228	eP	40	48.15	1.4
SGAM	3.02	158	eP	40	45.68	-1.2
BGL	3.06	230	eP	40	48.70	1.2
SLKM	3.08	206	eP	40	48.26	0.5
CKL	3.09	229	eP	40	48.84	1.0
NKA	3.11	216	P	40	52.00	4.0
RAGM	3.23	154	eP	40	49.57	-0.2
CROM	3.29	139	eP	40	49.74	-1.1
BALM	3.33	131	eP	40	50.63	-0.7
SEW	3.34	197	eP	40	51.50	0.2
HMT	3.36	151	eP	40	50.10	-1.5
TGL	3.39	137	eP	40	50.54	-1.5
FYU	3.42	16	eP	40	51.88	-0.4
WAX	3.62	140	eP	40	53.51	-1.8
NCT	3.75	225	eP	40	56.28	-0.9
IMA	3.83	319	eP	40	56.43	-1.8
TTA	3.87	268	eP	40	56.85	-1.9
BRLK	3.90	206	eP	40	58.84	-0.3
YAH	4.03	135	eP	40	59.57	-1.6
INE	4.19	221	eP	41	03.83	0.5
CNPM	4.19	207	eP	41	02.74	-0.5
SVW	4.38	243	eP	41	05.64	-0.3

62 obs. associated

? MAY 29, 1993 19h 42m 35.07±13.87s
51.491 N ±72.2km 16.455 E ±95.6km
DEPTH = 10.0km (geophysicist)
POLAND (548)

KSP	0.66	189	iP	42	47.90	-0.3
	0.5s	50	00nm			
			iS	42	57.00	
BRG	1.70	250	iPg	43	04.10	-0.7
			iSg	43	24.10	
PRU	1.93	220	Pn	43	09.00	0.7
			Pg	43	13.00	
			Sn	43	25.50	
			Sg	44	33.00	
CLL	2.17	267	ePg	43	12.00	0.3
			iSg	43	38.00	
KHC	3.00	219	Pn	43	28.50	5.6X
			Pg	43	40.00	
			Sn	43	57.00	
			eSg	44	06.90	
MOX	3.17	256	ePn	43	13.00	-12.9X
			ePg	43	31.50	
			iSg	44	11.00	
GRF	3.79	244	e(Pg)	43	41.60	6.8X
			eSg	44	31.00	

S.D. = 1.1 on 4 of 7 obs.

• MAY 29, 1993 20h 41m 32.66± 2.16s
32.352 S ±10.0km 71.629 W ±17.8km
DEPTH = 26.5 ± 7.1 km
NEAR COAST OF CENTRAL CHILE (135)
MD 3.7 (SAN).

ROCH	0.81	140	iP	41	48.61	0.4
			iS	42	00.79	
JACH	0.94	111	iP	41	49.79	-0.3
			iS	42	02.65	
LCCH	1.12	177	iP	41	53.21	0.6
			iS	42	07.23	
PEL	1.12	135	iP	41	52.95	0.2
			iS	42	07.48	
TACH	1.42	156	iP	41	57.44	0.5
			iS	42	15.55	
FCH	1.49	131	iP	41	57.88	-0.3
			iS	42	16.84	
PCH	1.57	144	iP	41	59.12	-0.1
			iS	42	19.32	
LNV	1.61	174	iP	41	59.04	-0.6
			iS	42	18.93	
CHCH	1.78	153	iP	42	02.15	0.0
			iS	42	23.78	
RTBS	1.97	70	ePc	42	05.70	0.8
RTLL	2.88	70	eP	42	17.00	-0.8
			S	42	50.80	
CFA	2.98	76	e(P)d	42	19.50	0.3
			S	42	53.50	

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

% MAY 29, 1993 20h 43m 30.98± 0.97s
27.875 S ± 7.0km 26.700 E ±12.3km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.1 (PRE).

SEK	0.93	119	eP	43	49.00	-0.3
			S	43	59.00	
PRY	1.17	36	eP	43	54.00	0.6
			S	44	10.50	
BLF	1.31	200	eP	43	56.00	0.2
			S	44	13.00	
KSR	2.01	5	eP	44	05.50	-0.6
			S	44	34.50	
SLR	2.56	34	eP	44	14.00	0.1
			S	44	45.00	

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

• MAY 29, 1993 21h 11m 16.27± 0.72s
26.484 N ±12.0km 65.034 E ±10.3km
DEPTH = 33.0km (normal)
3.8mb (3 obs.) 3.6Msz (1 obs.)
PAKISTAN (710)

QUE	4.06	24	eP	12	18.10	0.3
			e	12	21.00	
			e	13	37.70	
			e	14	11.20	
MAIO	10.87	336	eP	13	50.00	-2.7X
			eS	15	25.00	
NDI	11.03	76	iPd	13	49.50	-5.3X
			eS	15	47.50	
HYB	15.44	123	eP	14	53.00	-0.4
GBA	17.30	135	P	15	18.00	1.1
			S	19	00.00	
KER	17.32	301	eP	15	16.00	-1.3
SHL	24.13	86	eP	16	29.00	-1.4
			eS	21	03.50	
GEC2	45.34	314	P	19	33.50	0.4
	0.6s	0.37nm				3.5mb
			e	19	37.00	
			e	19	44.10	
HFS	48.38	328	eP	19	58.10	1.5
	0.4s	1.10nm				4.2mb
Z	19s	0.06um				3.6Msz
			LR	39	02.00	
BCAO	49.52	252	iPc	20	05.90	-0.2
	0.5s	8.00nm				5.0mb X
NB2	49.84	329	P	20	04.70	-3.2X
	0.7s	0.70nm				3.8mb

S.D. = 1.2 on 8 of 11 obs.

• MAY 29, 1993 21h 12m 59.59± 2.03s
17.308 N ±20.6km 62.878 W ±13.4km
DEPTH = 156.4 ± 26.7 km
LEEWARD ISLANDS (92)
MD 2.8 (TRN).

NEV	0.34	120	eP	13	21.94	-0.3
MGH	0.86	133	eP	13	24.70	0.5
			S	13	44.00	
BPA	1.01	105	eP	13	24.92	-0.4
			eS	13	43.03	
CPB	1.06	72	eP	13	25.93	0.2
			eS	13	45.38	
PAG	1.71	138	eP	13	45.30	13.0X
DOG	1.75	136	eP	13	45.40	12.7X
MGG	2.04	132	eP	13	35.80	-0.1
			S	14	02.00	
CPD	2.99	285	P	13	47.50	-0.1
LPR	3.02	290	P	13	48.00	0.0
CLLP	3.61	283	P	13	55.80	0.2
PORP	3.66	282	P	13	56.10	-0.1

S.D. = 0.4 on 9 of 11 obs.

MAY 29, 1993 21h 27m 08.48± 0.67s
47.679 N ± 4.7km 7.582 E ± 5.4km
DEPTH = 10.0km (geophysicist)
SWITZERLAND (544)
ML 2.2 (LDG), 2.0 (STR).

BBS	0.22	193	Pg	27	13.47	0.2
MOF	0.35	300	Pg	27	16.21	0.5

FEL	0.35	56	ePg	27	15.89	0.1
BSF	0.55	286	Pg	27	19.60	-0.2
			Sg	27	28.00	
ECH	0.61	332	Pg	27	21.00	0.2
LOMF	0.61	238	Pg	27	20.37	-0.4
WLS	0.75	348	Pg	27	22.97	-0.2
CDF	0.76	344	Pg	27	23.01	-0.4
HAU	0.89	292	Pg	27	25.90	0.3
			Sg	27	37.70	

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

? MAY 29, 1993 21h 40m 00.38± 4.54s
32.977 S ±14.2km 72.161 W ±32.3km
DEPTH = 10.0km (geophysicist)
OFF COAST OF CENTRAL CHILE (134)
MD 3.6 (SAN).

LCCH	0.70	135	iP	40	14.33	0.1
			iS	40	23.14	
ROCH	0.97	90	iP	40	18.82	-0.1
			iS	40	30.96	
LNV	1.16	147	iP	40	21.81	-0.2
			iS	40	36.60	
TACH	1.23	124	iP	40	22.90	-0.3
			iS	40	38.15	
PEL	1.25	98	iP	40	23.78	0.1
			iS	40	39.08	
JACH	1.35	78	iP	40	25.09	-0.3
			iS	40	42.07	
PCH	1.52	115	iP	40	27.87	0.1
			iS	40	46.55	
CHCH	1.58	128	iP	40	28.80	0.3
			iS	40	49.11	
FCH	1.61	103	iP	40	29.50	0.3
			iS	40	50.58	

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

MAY 29, 1993 21h 56m 11.28± 0.42s
42.010 N ± 5.4km 21.271 E ± 3.6km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 3.2 (TTG), 2.9 (SKO). Felt (IV) in the Skopje, Yugoslovio oreo.

SKO	0.13	107	iPgd	56	14.50	0.0
	0.3s	1070.00nm				
			iSg	56	17.20	
PHP	0.70	243	ePg	56	23.20	-1.9
			iSg	56	33.70	
OHR	0.97	202	iPgc	56	29.60	-0.1
			iSg	56	44.40	
PVY	1.13	302	iPgd	56	31.33	-1.1
			iSg	56	47.28	
VAY	1.19	125	iPg	56	32.70	-0.8
			iSg	56	49.60	
LACI	1.23	253	ePn	56	34.70	0.7
			iSn	56	54.00	
FNA	1.23	176	ePb	56	34.18	0.0
			eSb	56	51.20	
TIR	1.24	238	ePn	56	36.20	1.8
			iSn	56	54.70	
SDA	1.32	272	ePn	56	36.00	0.3
IVA	1.33	311	iPgd	56	35.21	-0.7
			iSg	56	53.92	
GRG	1.35	141	ePb	56	36.38	0.2
			eSb	56	55.74	
KNT	1.49	124	ePb	56	37.90	-0.1
			eSb	56	58.40	
ULC	1.51	269	iPgc	56	39.19	0.8
			iSg	57	01.04	
TTG	1.55	286	iPgd	56	38.60	-0.3
			iSg	57	01.63	
BDV	1.84	279	iPnc	56	44.49	1.4
			iSn	57	09.72	
NKY	1.86	296	iPnd	56	44.58	1.0
			iSn	57	10.04	
PLE	1.91	314	iPnc	56	45.04	0.7
			iSn	57	10.89	
SRS	1.96	116	ePn	56	44.54	-0.3
SOH	1.97	126	ePn	56	45.66	0.6
HCY	2.10	283	iPnd	56	48.10	1.1
			iSn	57	16.08	
LIT	2.12	154	ePn	56	47.38	0.2
			eSn	57	13.76	
BRY	2.21	295	iPnc	56	49.40	0.8
			iSn	57	18.31	
OUR	2.64	128	iPn	56	55.30	0.6
PAIG	2.77	138	ePn	56	55.98	-0.5
AGG	3.09	165	ePn	57	01.42	0.4
			eSn	57	37.28	
HVAR	3.75	290	e(Pn)	57	16.80	6.4X
MGR	4.71	248	P	57	23.50	-0.5
SGO	4.72	254	P	57	23.00	-1.2
MNS	6.39	276	P	57	46.60	-1.2
ASS	6.45	282	P	57	47.00	-1.7

S.D. = 0.9 on 29 of 30 obs.

% MAY 29, 1993 22h 41m 53.52± 1.18s
38.533 N ± 9.0km 15.411 E ±23.8km
DEPTH = 110.0km (geophysicist)
SICILY (398)

ATN	0.37	174	Pd	42	09.90	0.1
			eSg	42	23.90	
SOI	0.68	132	Pd	42	11.90	0.0
			eSg	42	28.50	
CZI	0.89	39	P	42	13.80	0.0
TDS	1.34	32	P	42	18.50	-0.2
ROI	1.37	41	P	42	19.20	0.0
CSI	1.42	29	P	42	20.10	0.4
MGR	1.61	4	P	42	21.90	-0.1

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

? MAY 29, 1993 22h 43m 56.69± 1.40s
0.319 N ±25.7km 16 677 W ±16.7km
DEPTH = 33.0km (normal)
4.2mb (5 obs.)
NORTH OF ASCENSION ISLAND (407)

LIC	13.02	63	P	47	03.00	0.9
	Z 20s	0.15um				
			S	49	18.00	
TIC	13.22	61	P	47	03.40	-1.3
			S	49	20.00	
KIC	13.34	63	P	47	09.00	2.7X
			S	49	28.00	
BCAO	35.41	83	iPd	50	52.50	0.5
	0.3s	18.00nm			5.5mb	X
			id	51	12.00	
LPG	49.51	22	eP	52	49.90	3.4X
	0.5s	1.70nm			4.3mb	
LPL	49.52	22	eP	52	49.80	3.3X
	0.5s	2.05nm			4.4mb	
GEC2	54.97	24	P	53	27.60	0.5
	0.7s	1.02nm			4.0mb	
		e		53	31.90	
		e		53	34.80	
		e		53	40.00	
		e		55	20.10	
		e		55	29.00	
HFS	64.11	16	eP	54	30.00	0.3
	0.5s	0.90nm			4.1mb	
	Z 17s	0.03um			3.6MszX	
		LR		19	30.00	
NB2	64.21	15	P	54	30.00	-0.5
	0.8s	1.70nm			4.2mb	
WRA	145.57	126	PKP	03	33.80	-0.4
	0.8s	1.40nm				

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

& MAY 29, 1993 23h 41m 20.06s
60.176 N 151.864 W
DEPTH = 54.6km
KENAI PENINSULA, ALASKA (14)
<AEIC>. ML 3.3 (AEIC).

RDT	0.48	326	eP	41	30.99	-0.6
RS1	0.53	303	P	41	31.00	-1.3
ILIM	0.56	261	iPd	41	31.71	-0.7
			eS	41	41.13	
RDN	0.56	308	ePd	41	31.79	-0.8
RDW	0.56	304	iPd	41	32.00	-0.6
DFR	0.58	316	iPd	41	32.03	-0.8
INE	0.61	260	iPd	41	32.41	-0.8
			iS	41	42.58	
BRLK	0.64	130	iPc	41	32.96	-0.5
			eS	41	43.52	
INW	0.64	261	iPd	41	32.88	-0.7
NKA	0.65	28	iPc	41	34.77	1.3
NCT	0.66	307	iPd	41	33.06	-0.6
			eS	41	44.05	
CNPM	0.73	154	iPc	41	33.97	-0.5
			eS	41	44.83	
XLV	0.73	174	ePd	41	33.66	-0.8
			eS	41	45.39	
OPT	0.87	233	ePc	41	35.49	-0.8
			eS	41	48.42	
SLKM	0.88	67	ePc	41	35.50	-1.0
			eS	41	49.24	
SPU	1.01	355	iPd	41	37.45	-0.9
CKL	1.05	347	iPd	41	38.06	-0.8
CKN	1.06	352	iPd	41	38.50	-0.5
CPAM	1.09	353	iPd	41	38.86	-0.6
CRP	1.10	353	iPd	41	38.51	-1.2
CP2	1.11	351	iPd	41	39.02	-0.7
AUE	1.12	224	ePc	41	38.83	-0.9
			eS	41	54.15	
BGL	1.12	347	ePd	41	39.38	-0.5
AUL	1.12	226	eP	41	39.00	-0.8
AUP	1.13	225	ePc	41	39.17	-0.8
CGLM	1.14	357	iPd	41	39.40	-0.7
AUH	1.14	225	ePc	41	39.23	-0.8
AUW	1.15	226	ePc	41	39.24	-0.8
			eS	41	54.54	
AUI	1.16	224	eP	41	39.31	-0.9
			eS	41	55.02	
SEW	1.21	92	eP	41	39.86	-1.1
PDB	1.23	253	ePc	41	39.74	-1.5
			eS	41	55.86	
MPA	1.28	75	ePc	41	41.02	-0.9
			eS	41	59.79	
SUA	1.40	23	ePd	41	43.27	-0.5
			eS	42	01.89	
CDD	1.54	217	iPc	41	44.41	-1.2
			eS	42	03.21	
PMS	1.56	46	P	41	45.70	-0.2
PTE	1.57	63	ePc	41	45.04	-0.8
			eS	42	03.69	
SYI	1.59	190	iPc	41	45.61	-0.7
MCNL	1.60	233	ePc	41	44.56	-1.8
			eS	42	04.71	
SKT	1.82	5	ePd	41	48.62	-0.9
			eS	42	12.41	
PLRM	1.95	42	ePc	41	50.10	-1.2
PMR	1.95	42	eP	41	49.68	-1.6
SVW	2.07	298	eP	41	50.02	-3.1
GHO	2.15	41	ePc	41	52.93	-1.3
SML	2.38	45	ePc	41	55.87	-1.5
KDC	2.46	188	eP	41	55.38	-3.0
HIN	2.68	83	eP	41	58.36	-3.3
			eS	42	29.76	
SCM	2.77	51	eP	42	01.20	-1.7
VLZ	2.89	68	eP	42	01.88	-2.7
			eS	42	36.06	
MID	2.89	103	P	42	03.00	-1.6
HUR	3.01	20	eP	42	07.57	1.2
KLU	3.20	63	iPc	42	06.48	-2.6
SGAM	3.33	81	eP	42	08.26	-2.6
TRF	3.37	12	eP	42	10.59	-1.0
TTA	3.40	326	eP	42	08.95	-3.0
RND	3.54	22	eP	42	11.69	-2.2
SDG	3.85	49	eP	42	16.33	-1.9
GLB	4.14	69	eP	42	19.83	-2.5
PAX	4.15	45	eP	42	20.49	-2.0
TGL	4.51	79	eP	42	26.03	-1.5
WRH	4.66	21	eP	42	27.80	-1.7
BALM	4.77	75	eP	42	28.46	-2.8
HDA	4.82	26	eP	42	30.34	-1.6
CCB	4.87	21	eP	42	30.44	-2.1
GLM	5.25	21	eP	42	35.99	-2.0

64 obs. associated

MAY 29, 1993 23h 46m 08.55± 0.53s
38.240 N ± 5.5km 21.540 E ± 3.6km
DEPTH = 10.0km (geophysicist)
3.9mb (4 obs.)
GREECE (364)
ML 3.6 (ATH).

VLS	0.75	265	ePg	46	21.50	-1.8
			eSg	46	34.20	
AGG	1.00	38	ePg	46	26.58	-0.9
			eSg	46	42.15	
IGT	1.60	324	iPb	46	38.26	1.4
			eSb	46	59.89	
ATH	1.74	98	ePb	46	40.30	1.4
VLI	1.88	143	ePb	46	42.40	1.4
LIT	2.00	21	ePn	46	42.38	-0.4
			eSn	47	11.81	
KEK	2.00	318	ePn	46	43.00	0.2

29d 23h

SRN	2.03	324	ePn	46	44.50	1.4
KZN	2.07	5	ePn	46	45.10	1.3
PAIG	2.37	44	iPn	46	46.82	-1.2
			eSn	47	20.78	
TPE	2.37	330	iPnd	46	51.00	2.9X
FNA	2.54	357	ePn	46	51.30	0.7
			eSn	47	24.02	
THE	2.63	24	ePn	46	51.62	-0.1
VLO	2.73	325	ePn	46	54.30	1.1
GRG	2.79	14	ePn	46	54.66	0.5
OUR	2.82	41	iPn	46	53.86	-0.6
			eSn	47	30.41	
OHR	2.92	349	iPn	46	56.60	0.6
			i	47	01.70	
			i	47	35.60	
			i	47	44.10	
SOH	2.93	28	ePn	46	55.94	-0.2
			eSn	47	33.12	
KNT	3.10	19	iPn	46	57.94	-0.5
			eSn	47	37.11	
VAY	3.18	14	iPn	46	01.30	-58.2X
SRS	3.28	28	ePn	47	00.02	-1.0
TIR	3.36	338	ePn	47	02.00	-0.1
LCI	3.48	308	P	47	03.70	-0.1
VAM	3.54	142	ePn	47	07.50	2.8X
PHP	3.54	347	ePn	47	06.70	2.0X
LACI	3.67	338	ePn	47	07.50	1.0
MMB	3.74	26	eP	47	05.00	-2.6X
ROI	4.10	290	P	47	11.80	-0.8
RZN	4.22	34	eP	47	13 00	-1.5
RDO	4.23	45	ePn	47	15 10	0.6
TDS	4.30	291	P	47	17.30	1.9
SOI	4.33	269	P	47	16 90	1.0
CZI	4.34	285	P	47	14.50	-1.5
CSI	4.37	292	P	47	16.00	-0.5
ALN	4.38	51	ePn	47	14.20	-2.4X
KDZ	4.52	40	eP	47	16.00	-2.6X
VTS	4.53	16	eP	47	18.00	-0.8
PLD	4.56	31	eP	47	19.00	-0.1
BAI	4.61	310	P	47	18.00	-1.9
ATN	4 79	271	P	47	23.40	0.9
MGR	5.02	294	P	47	24.60	-1.1
SGO	5.35	298	P	47	30.40	0.0
PVL	5.74	29	eP	47	22.00	-13.9X
HVAR	6.27	324	e(Pn)	47	40.80	-2.5
DUI	6.42	304	P	47	46.90	1.3
SDI	6.87	303	P	47	53.50	1.7
MNS	7.93	304	P	48	09.10	2.4X
MLR	7.95	23	eP	48	08.00	1.0
ARV	8.37	312	P	48	10.00	-2.7X
VRI	8.54	25	eP	48	16.00	0.9
VBY	8.64	329	e(Pn)	48	12.50	-3.9X
			eSn	48	54.50	
PTJ	8 70	333	eP	48	14.40	-3.0X
CRE	9.03	310	P	48	21.90	-0.1
CEY	9.17	327	eP	48	20.00	-3.8X
			eS	51	03.00	
VOY	9.63	326	eP	48	27.20	-3.0X
			eS	50	12.70	
			e	50	17.80	
CTI	10.71	320	P	48	41.50	-3.5X
HFS	22.47	350	eP	51	06.20	-2.8X
	0.4s		1.60nm		3.8mb	
NB2	23.72	347	P	51	17.60	-3.7X
	0 7s		1.40nm		3.6mb	
EKA	23.85	324	Pc	51	21.50	-0.9
	0 6s		2.80nm		4.0mb	
BCAO	33.76	185	iPd	52	51.00	-1.5
	0.5s		5.00nm		4.7mb	

S.D. = 1.1 on 43 of 60 obs.

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* MAY 29, 1993 23h 49m 58.25± 0.85s
31.454 S ±10.3km 68.354 W ±11.8km
DEPTH = 74.6 ± 16.6 km
SAN JUAN PROVINCE, ARGENTINA (137)

ZON	0.29	252	iPd	50	10.10	0.0
			eS	50	18.10	
RTBS	0.96	257	iPd	50	21.20	4.5X
RTPR	1.96	55	iPc	50	34.00	4.1X
MRA	2.44	114	ePd	50	36.00	-0.7
TCA	3.22	89	ePd	50	48.20	0.6
			S	51	32.00	
RFA	3.31	182	ePc	50	49.00	0.2
			i	50	57.70	
			(S)	51	27.00	
CYA	3.73	37	ePc	51	00.70	6.0X
CCH	14.15	9	P	53	13.00	-3.8X
			e	54	10.00	
CNCB	14.58	1	P	53	23.00	0.4
LPB	14.86	1	eP	53	28.00	2.0X
ZOBO	15.12	1	P	53	29.00	-0.5
			S	54	09.20	

S.D. = 0.8 on 6 of 11 obs.

& MAY 30, 1993 00h 21m 10.83s
60.974 N 149.943 W
DEPTH = 30.8km
KENAI PENINSULA, ALASKA (14)
<AEIC>. ML 2.7 (AEIC).

PMS	0.33	34	P	21	18.70	-0.1
PTE	0.46	103	iPc	21	19.88	-0.8
			eS	21	27.15	
SLKM	0.49	196	iPd	21	20.53	-0.6
			eS	21	28.61	
MPA	0.56	149	iPc	21	21.23	-1.1
			eS	21	30.49	
SUA	0.63	322	iPd	21	22.65	-0.8
			eS	21	32.39	
NKA	0.67	250	iPc	21	24.78	0.7
PWA	0.68	3	P	21	23.10	-1.0
PLRM	0.73	32	iPc	21	23.44	-1.5
			eS	21	34.32	
PMR	0.73	32	ePc	21	23.09	-1.8
SEW	0.91	164	eP	21	26.11	-1.2
GHO	0.94	31	iPc	21	26.71	-1.2
			eS	21	40.60	
SPU	1.05	282	iPc	21	28.45	-1.0
			eS	21	42.89	
CGLM	1.06	289	iPc	21	28.69	-0.9
CPAM	1.10	286	iPc	21	29.63	-0.7
			eS	21	44.81	
CRP	1.11	286	ePc	21	29.21	-1.3
CKN	1.12	284	iPc	21	29.76	-0.7
SML	1.14	42	iPc	21	29.40	-1.4
CKL	1.19	282	iPc	21	30.62	-0.8
BGL	1.22	285	ePc	21	31.29	-0.7
SKT	1.26	324	iPc	21	31.81	-0.7
			eS	21	49.10	
BRLK	1.30	202	eP	21	31.88	-1.1
			eS	21	48.75	
DFR	1.40	255	eP	21	33.44	-1.1
RSO	1.47	251	eP	21	33.86	-1.8
			eS	21	52.23	
RDW	1.49	252	ePc	21	34.86	-1.1
NCT	1.52	256	iPc	21	35.16	-1.2
			eS	21	55.59	
SCM	1.53	54	ePc	21	35.14	-1.2
			eS	21	54.93	
CNPM	1.59	204	ePd	21	35.85	-1.4
			eS	21	56.58	
ILIM	1.74	240	ePd	21	38.44	-1.0
			eS	22	00.76	
VLZ	1.76	83	ePc	21	37.69	-2.0
HIN	1.79	107	iPc	21	39.37	-0.7
INE	1.79	241	eP	21	39.32	-1.0
			eS	22	03.20	
INW	1.82	241	eP	21	39.77	-0.9
			eS	22	02.71	
KLU	2.01	73	eP	21	41.18	-2.2
CVA	2.10	100	eP	21	44.40	-0.2
OPT	2.11	232	eP	21	44.35	-0.3
AUL	2.37	229	eP	21	48.69	0.4
AUP	2.37	229	eP	21	48.53	0.0
SGAM	2.37	99	eP	21	47.70	-0.8
AUH	2.38	229	eP	21	47.67	-0.9
AUW	2.39	229	eP	21	48.53	-0.1
TZL	2.42	62	eP	21	49.56	0.5
PDB	2.42	242	eP	21	48.53	-0.6
RAGM	2.66	100	eP	21	53.27	0.8
SVW	2.77	275	eP	21	51.63	-2.4
CDD	2.77	224	eP	21	52.77	-1.3
HMT	2.87	100	eP	21	54.07	-1.4
GLB	3.00	78	ePc	21	54.67	-2.8
BALM	3.70	86	(P)	22	07.38	0.0
FBA	4.06	13	eP	22	10.82	-1.6

49 obs. associated

? MAY 30, 1993 00h 27m 44.17± 0.87s
31.650 S ±40 0km 67.961 W ± 9.7km
DEPTH = 33.0km (normal)
SAN JUAN PROVINCE, ARGENTINA (137)

CFA	0.24	280	e(P)	27	51.00	-0.3
ZON	0.62	279	eP	27	56.80	0.2
			eS	28	05.80	
MRA	2.06	112	ePd	28	17.10	0.0
			S	28	42.00	
TCA	2.90	85	ePd	28	29.10	0.0
			S	29	11.50	

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

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* MAY 30, 1993 01h 21m 39.07± 1.24s
24.427 N ±13.8km 108.647 W ±13.3km
DEPTH = 10.0km (geophysicist)
4.1mb (8 obs.)
GULF OF CALIFORNIA (49)

MZX	2.37	121	iP	22	18.50	-0.1
LTX	6.61	41	eP	23	12.53	-6.2X
TUC	8.08	347	(P)	23	37.75	-1.5
GSC	12.94	329	eP	24	44.73	-1.0
ARUT	13.93	344	(P)	25	01.08	2.1X
TPNV	14.08	334	eP	25	02.30	1.4
MSU	14.36	349	eP	25	05.62	1.0
SRU	14.73	354	eP	25	09.91	0.5
TNP	15.45	334	eP	25	19.43	0.6
	1.4s		59.85nm		4.7mb	
EMUT	15.45	354	eP	25	18.73	-0.2
GOL	15.48	10	eP	25	19.65	0.4
	0.9s		8.33nm		4.0mb	
GLD	15.55	10	(P)	25	20.04	-0.1
	1.2s		23.26nm		4.3mb	
MEMM	15.86	329	(P)	25	27.28	3.4X
DAU	16.09	353	eP	25	27.84	0.6
DUG	16.11	348	eP	25	26.97	-0.3
	1.4s		32.54nm		4.3mb	
MIAR	16.53	49	eP	25	26.95	-5.6X
	1.1s		5.90nm		3.6mb	
KVN	16.63	333	(P)	25	34.22	0.2
CMB	16.85	326	eP	25	36.49	-0.2
	1.7s		29.90nm		4.1mb	
HVU	17.64	350	eP	25	46.53	-0.1
BW06	18.32	358	eP	25	52.58	-2.5X
	0.8s		8.13nm		3.9mb	
RSSD	20.00	10	eP	26	11.85	-3.1X
	1.2s		9.27nm		4.0mb	
Z	19s		0.16um		3.4Msz	
LBFM	20.17	330	eP	26	16.98	0.4
MCMT	20.64	351	eP	26	19.50	-2.1
GBTN	23.87	56	eP	26	48.27	-5.2X
ULM	27.62	18	eP	27	27.00	-1.6
RSNT	34.20	46	P	28	30.00	3.2X
Z	20s		0.09um		3.5MszX	
HRV	35.46	50	P	28	40.00	2.5X
Z	19s		0.04um		3.2MszX	
FCC	35.83	13	eP	28	42.00	1.6
JAQ	38.29	31	eP	28	56.50	-4.7X
CBM	39.26	45	P	29	10.00	0.6
Z	18s		0.06um		3.4MszX	
INK	46.43	348	eP	30	03.50	-3.9X
WRA	121.93	261	PKP	40	27.40	-8.5X
	0.8s		0.70nm			

S.D. = 1.0 on 20 of 32 obs.

% MAY 30, 1993 01h 40m 18.99± 0.79s
26.878 S ± 7.4km 26.754 E ± 6.7km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)

BFS	0.03	126	iPd	40	20.30	-0.1
			S	40	20.70	
PRY	0.64	95	eP	40	31.00	-0.9
			S	40	37.00	
KSR	1.02	7	eP	40	39.00	0.2
			S	40	52.50	
SWZ	1.31	256	eP	40	43.30	-0.5
			S	40	58.90	
SEK	1.63	152	iPd	40	49.50	0.9
			S	41	10.70	
SLR	1.78	51	eP	40	51.20	0.4
			S	41	14.20	

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

MAY 30, 1993 01h 45m 30.49± 1.09s
51.131 N ±11.9km 15.774 E ± 5.7km
DEPTH = 10.0km (geophysicist)
POLAND (548)
ML 3.4 (VIE).

KSP 0.44 131 iPd 45 38.30 -1.1
0.2s 81.00nm
iS 45 47.70
BRG 1.18 258 iPn 45 52.50 -0.1
iPg 45 53.50
iSg 46 13.20
PRU 1.39 215 ePn 45 56.00 0.1
ePg 45 58.00
eSg 46 21.60
e 58 48.00
eSg 59 10.30
CLL 1.75 277 ePg 46 01.00 -0.1
iSg 46 26.80
eSg 59 46.00
KHC 2.45 216 Pn 46 11.50 0.3
e 46 26.80
eSn 46 51.50
Sg 47 10.50
GEC2 2.65 211 Pn 46 15.10 1.0
Pg 46 21.20
Sn 46 53.00
Sg 47 04.40
MOX 2.68 261 ePn 46 13.60 -0.8
ePg 46 21.20
iSg 46 59.60
OJC 2.72 108 iP 46 16.00 1.0
iS 46 51.40
VKA 2.89 173 ePn 46 17.00 -0.4
iPg 46 26.10
eSg 47 09.50
ZST 3.06 163 eP 47 13.40 53.6X
GRF 3.25 245 e(Pn) 46 22.40 -0.1
eSg 47 20.70
SPC 3.47 122 eP 46 32.30 6.5X
e 46 38.30
S.D. = 0.8 on 10 of 12 obs.

& MAY 30, 1993 02h 02m 14.83s
40.671 N 123.435 W
DEPTH = 29.5km
NORTHERN CALIFORNIA (36)
<GM-P>. MD 3 4 (GM).

KHBM 0.17 94 P 02 20.68 -0.2
KGMM 0.20 296 P 02 21.04 -0.2
KPPM 0.33 170 P 02 22.79 -0.1
KCRM 0.38 230 P 02 23.29 -0.2
KBRM 0.40 279 P 02 23.38 -0.4
FHC 0.44 288 ePc 02 23.89 -0.4
eS 02 31.50
LGPM 0.52 62 iPd 02 24.98 -0.7
KKPM 0.53 172 P 02 25.65 -0.2
LBPM 0.55 130 P 02 25.48 -0.6
KMPM 0.58 244 iPc 02 25.80 -0.8
eS 02 34.14
KOMM 0.61 359 P 02 25.97 -1.1
WDC 0.69 97 ePc 02 27.32 -1.0
eS 02 36.91
KCTM 0.71 254 P 02 27.71 -1.0
KSMM 0.74 230 P 02 27.97 -1.3
KBSM 0.76 189 P 02 29.09 -0.4
KIPM 0.86 182 P 02 30.04 -0.9
KRMM 0.92 337 P 02 30.48 -1.3
GROM 0.95 142 P 02 28.93 -3.4
GAS 1.16 151 P 02 34.72 -0.4
LMPM 1.26 49 P 02 37.32 0.6
LHEM 1.33 43 P 02 37.82 0.1
LBFM 1.35 59 ePc 02 37.81 -0.2
LPDM 1.42 68 P 02 38.79 -0.1
LMEM 1.43 95 (P) 02 37.63 -1.5
LSLM 1.47 99 P 02 38.97 -0.6
OBHM 1.82 123 P 02 45.02 0.3
ORV 1.86 126 eP 02 43.90 -1.3
27 obs. ossociated

? MAY 30, 1993 02h 50m 20.00± 4.84s
38.631 N ±26.1km 26.317 E ±35.4km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
ML 3.1 (ISK).

IZM 0.78 107 iPg 50 35.10 -0.1
eSg 50 48.10
EZN 1.19 0 iPn 50 42.50 0.3
CIN 1.73 126 ePn 50 56.00 5.7X
iSg 51 15.00
KGT 1.97 22 iPn 50 53.50 -0.3

DST 2.04 61 ePn 50 55.40 0.5
EDC 2.09 34 ePn 50 55.00 -0.5
KCT 2.26 44 ePn 50 58.00 0.0
S.D. = 0.5 on 6 of 7 obs.

? MAY 30, 1993 04h 45m 54.07± 1.26s
39.188 N ±11.7km 28.149 E ±15.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.6 (ISK).

DST 0.56 42 iPg 46 05.10 -0.3
eSg 46 14.00
IZM 1.05 222 ePn 46 14.00 0.1
KCT 1.07 9 ePn 46 14.90 0.7
KGT 1.42 333 ePn 46 19.40 -0.5
S.D. = 0.9 on 4 of 4 obs.

MAY 30, 1993 04h 46m 46.54± 0.44s
7.253 S ± 3.6km 128.434 E ± 5.4km
DEPTH = 109.5 ± 3.9 km
5.2mb (29 obs.)
8ANDA SEA (280)

MTN 6.16 155 eP 48 16.00 -0.5
KNA 8.45 178 eP 48 45.90 -1.9
0.2s 198.00nm 6.5mb X
eS 50 14.00
WRA 13.86 156 P 49 55.20 -4.3X
WB2 13.86 156 iPd 49 55.10 -4.4X
iS 52 19.00
DAV 14.53 349 eP 50 16.00 7.9X
eS 53 04.20
CTB 14.97 344 ePd 50 22.00 8.4X
MBL 16.13 210 eP 50 27.00 -1.3
0.4s 32.00nm 4.9mb
eS 53 12.00
ASPA 17.14 163 iPd 50 37.70 -3.1X
0.6s 259.00nm 5.7mb
Z 18s 0.60um 3.6MszX
eS 53 37.10
KKM 17.97 317 ePc 50 57 00 5.9X
PLP 18.62 349 ePd 51 00.20 1.8
PMG 18.65 98 eP 50 59.00 0.2
LEM 20.66 270 ePc 51 21.50 1.7
MEEK 21.42 205 eP 51 28.00 0.8
eS 55 03.00
CTA 21.48 128 iPd 51 28.50 0.7
1.0s 17.50nm 4.4mb
i 51 34.00
eS 55 20.00
QCP 22.94 341 eP 51 46.00 4.0X
FORT 23.41 181 eP 51 47.00 0.5
QLP 24.40 144 iPc 51 56.60 0.5
eS 56 26.00
BAG 24.76 342 eP 52 01.00 1.2
STK 27.40 155 iPc 52 23.40 -0.3
0.6s 25.00nm 5.0mb
epP 52 48.30 115kmX
eS 57 40.00
RKG 29.15 200 eP 52 40.00 0.6
ADE 29.16 163 eP 52 40.50 1.0
IPM 29.77 292 ePc 52 46.00 0.9
0.5s 17.70nm 5.0mb
ARMA 31.69 140 eP 53 03.00 1.1
BWA 32.72 148 eP 53 11.90 1.1
e 54 14.50
CAN 33.72 149 iPd 53 19.70 0.3
e 54 25.30
iScP 59 27.30
TOO 33.92 155 iPc 53 22.60 1.4
0.4s 33.00nm 5.5mb
e 00 45.80
SSE 38.76 350 Pc 54 03.00 1.2
1.0s 11.00nm 4.6mb
DZM 39.47 116 iPc 54 08.10 0.0
KMI 40.76 323 Pd 54 21.50 2.8X
2.0s 80.00nm 5.2mb
pP 54 34.50 49kmX
MTMJ 44.48 11 P 54 48.50 -0.2
MAT 44.52 11 eP 54 48.00 -0.9
1.0s 23.00nm 4.9mb
eS 01 03.00
YAMJ 46.47 13 P 55 05.30 1.0
SHL 48.24 314 iP 55 19.00 0.5
BJI 48.40 347 eP 55 19.00 -0.3
1.3s 40.00nm 5.1mb

LZH 48.91 333 eP 55 24.00 0.4
1.5s 148.00nm 5.6mb
Z 22s 0.31um 4.3Msz
pP 55 56.00 139kmX
i 56 29.00
HOOJ 51.22 14 P 55 41.30 0.5
KUSJ 52.25 15 eP 55 48.60 0.1
HYB 55.04 297 ePd 56 08.80 -0.6
1.2s 64.30nm 5.5mb
YSS 55.50 12 eP 56 11.00 -1.2
CIT 60.37 350 eP 56 48.00 1.7
NDI 60.91 308 iPc 56 48.80 -1.5
0.5s 35.21nm 5.6mb
ZAK 61.41 342 iPc 56 54.00 0.8
1.4s 46.00nm 5.3mb
MOY 63.26 341 iPd 57 02.50 -2.9X
1.3s 128.00nm 5.7mb
BOD 65.91 352 iPc 57 21.60 -0.9
1.2s 42.00nm 5.2mb
PRZ 67.23 322 eP 57 33.00 1.6
1.8s 100.00nm 5.4mb
YAK 69.07 1 iPd 57 41.70 -0.4
1.5s 105.00nm 5.4mb
e(S) 06 32.00
MGD 69.44 12 eP 57 44.00 -0.5
1.2s 50.00nm 5.2mb
e 02 00.00
FRU 69.76 321 eP 57 46.00 -0.9
2.0s 50.00nm 5.0mb
e 58 10.50
MAIO 77.64 309 iPd 58 33.60 0.9
TIK 78.72 0 iPd 58 37.00 -0.7
1.6s 52.00nm 5.1mb
ILT 83.65 18 iPd 59 04.00 0.3
1 0s 36.00nm 5.2mb
SVE 84.18 329 iPd 59 07.80 1.3
1.3s 140.00nm 5.7mb
GRS 88.51 310 eP 59 28.00 -0 3
1.3s 40.00nm 5.3mb
SVW 89.58 28 eP 59 32.80 0.1
TTA 89.90 26 eP 59 33.39 -0.9
1.2s 10.04nm 4.8mb
NVL 91.66 197 eP 59 42.00 -0.2
IMA 91.70 24 eP 59 42.24 -0.3
0.8s 3.59nm 4.7mb
SLKM 92.01 29 eP 59 43.04 -0.9
PMS 92.47 29 eP 59 44.80 -1.2
1.3s 28.70nm 5.4mb
PMR 92.73 28 eP 59 46.17 -1.0
1.0s 10.97nm 5.1mb
FBA 93.87 25 eP 59 50.40 -2.0
BALM 95.91 29 eP 00 02.00 0.0
OBN 96.94 325 eP 00 06.80 0.3
1.4s 30.00nm 5.6mb
NB2 109.29 333 PKP 05 05.10 0.0
0.8s 1.80nm
BCAO 110.26 272 iPKPc 05 08.20 -0.1
0.5s 3.00nm
GEC2 111.61 320 PKP 05 09.00 -0.9
0.6s 3.54nm
e 08 32.30
GRF 112.95 321 ePKP 05 12.00 -0.3
GSC 114.33 55 ePKP 05 16.57 1.0
LLS 115.20 319 iPKPc 05 16.50 -0.5
LRM 115.29 43 ePKP 05 17.40 0.1
TMA 115.51 318 ePKPd 05 16.70 -0.9
CDF 115.82 321 iPKPd 05 16.80 -1.2
MMK 116.13 318 ePKPd 05 18.80 -0.1
HVU 116.14 47 ePKP 05 18.86 -0.1
BSF 116.32 320 iPKPd 05 18.10 -0.9
0.7s 9.70nm
PGF 116.41 314 iPKPd 05 18.70 -0.6
0.6s 3.95nm
DIX 116.48 318 ePKPd 05 19.40 -0.2
DUG 116.50 49 ePKP 05 20.24 0.6
HAU 116.54 321 iPKPd 05 18.70 -0.6
0.7s 4.85nm
LPG 117.11 318 iPKPd 05 20.40 -0.4
0.6s 6.30nm
LPL 117.11 318 iPKPd 05 20.30 -0.4
0.6s 10.75nm
SBF 117.14 316 iPKPd 05 19.80 -0.8
0.6s 4.80nm
MSU 117.37 50 ePKP 05 22.00 0.5
FRF 117.78 316 iPKPd 05 21.10 -0.7
0.9s 7.85nm
LRG 118.01 316 iPKPd 05 21.80 -0.4

30d 05h

	0.6s	4.80nm				
LOR	118.38	320	iPKPd	05	22.20	-0.6
	0.5s	2.05nm				
LBF	118.41	320	iPKPd	05	22.30	-0.6
	0.6s	6.75nm				
SRU	118.48	49	ePKP	05	23.21	-0.3
SMF	118.62	320	iPKPd	05	22.50	-0.8
	0.6s	3.80nm				
EKA	118.64	331	PKP	05	23.00	0.0
	0.5s	3.70nm				
SSF	118.68	320	iPKPd	05	23.00	-0.4
	0.6s	11.10nm				
AVF	118.88	320	iPKPd	05	22.90	-0.8
	0.6s	4.95nm				
FCC	119.22	24	ePKP	05	29.50	5.6X
BGF	119.29	320	iPKPd	05	24.40	-0.1
	0.6s	19.75nm				
MAF	119.59	320	iPKPd	05	24.80	-0.3
	0.6s	3.80nm				
PV10	119.79	50	ePKP	05	26.58	0.5
TCF	119.80	320	iPKPd	05	25.30	-0.3
	0.6s	5.95nm				
PV08	120.03	49	ePKP	05	27.21	0.5
LSF	120.25	320	iPKPd	05	25.90	-0.5
	0.6s	4.35nm				
CAF	120.41	318	iPKPd	05	26.90	0.1
	0.7s	5.50nm				
LPO	121.08	318	iPKPd	05	28.20	0.2
	0.6s	5.50nm				
MFF	121.16	321	iPKPd	05	27.80	-0.3
	0.6s	8.85nm				
LFF	121.27	319	iPKPd	05	29.00	0.7
	0.7s	10.15nm				
GCL	122.13	47	ePKP	05	31.29	0.8
EPF	122.28	317	iPKPd	05	30.30	-0.1
	0.6s	4.05nm				
FRB	122.30	9	ePKP	05	29.00	-0.6
	0.6s	5.00nm				
ALQ	122.70	53	ePKP	05	32.07	0.4
ULM	123.50	33	ePKP	05	34.50	2.1
LTX	126.39	59	ePKP	05	37.18	-1.7
JAQ	129.64	18	ePKP	05	43.00	-1.2
UYO	132.28	50	iPKPc	05	50.90	1.1
MIAR	132.79	49	ePKP	05	51.73	1.0
			eSKP	09	06.10	
FVM	133.42	43	ePKP	05	52.67	0.8
EEO	134.20	26	ePKP	05	57.00	3.9X
ELC	134.59	43	ePKP	05	54.36	0.3
MYNC	139.25	43	ePKP	06	02.78	-0.2
LMN	139.88	14	ePKP	06	06.50	2.8X
NAV	139.99	37	ePKP	06	05.95	1.7
GOGA	140.65	44	ePKP	06	05.32	-0.1
MBO	145.31	285	iPKPc	06	16.00	2.1
YJA	147.73	155	ePKPc	06	18.30	0.0
RSTA	148.19	184	ePKP	06	21.10	2.7X
NNA	148.42	127	ePKP	06	22.70	3.6X
	1.1s	32.91nm				
MOCB	148.48	154	PKP	06	20.00	0.4
ARE	149.28	140	ePKP	06	26.00	5.3X
VAO	149.60	188	ePKP	06	25.50	4.8X
PPD	150.90	180	ePKP	06	25.30	2.7X
			e	06	28.00	
LPB	151.26	145	PKP	06	30.00	6.2X
ZOBO	151.46	145	PKP	06	23.30	-1.0
SIV	155.06	158	PKP	06	28.50	-0.1
BAO	156.99	189	ePKP	06	31.00	-0.3
	S.D. = 0.9	on 113 of 131 obs.				

MAY 30, 1993 05h 34m 21.25± 0.54s
23.018 S ± 5.7km 66.500 W ± 7.4km
DEPTH = 245.3 ± 7.7 km
4.3mb (1 obs.)
JUJUY PROVINCE, ARGENTINA (128)

HJA	1.03	101	iPd	34	56.50	0.3
			S	35	25.00	
YJA	1.25	48	iPc	34	57.10	-1.1
MOCB	1.93	25	P	35	04.00	0.4
SLA	1.94	152	ePd	35	03.20	-0.1
			S	35	34.30	
FSA	3.08	172	iPd	35	15.00	0.3
ANT	3.66	258	iP+	35	21.00	-0.3
			iS	36	04.00	
CYA	5.44	173	ePd	35	43.00	0.1
			S	36	46.70	
CCH	5.62	4	Pc	35	47.00	1.6
ZOBO	6.89	347	P	36	01.10	-0.6
	1.0s	28.00nm			4.3mb	
ARE	8.04	323	eP	36	16.00	-0.1
			eS	37	43.00	
TCA	8.46	169	iPd	36	09.60	-11.6X
			S	37	56.00	
SIV	8.66	37	P	36	22.90	-0.9
PPD	14.07	89	eP	37	31.80	0.1
VAO	17.98	94	eP	38	16.00	-0.4
			e	38	19.00	
BAO	18.94	70	eP	38	26.60	0.3
	S.D. = 0.7	on 14 of 15 obs.				

MAY 30, 1993 06h 00m 03.26± 0.18s
51.515 N ± 4.3km 156.586 E ± 3.2km
DEPTH = 121.6km (15 depth phases)
4.8mb (58 obs.)
KAMCHATKA (217)

SKR	0.90	200	iPnd	00	25.30	0.5
			iS	00	41.10	
PET	1.97	39	iPnd	00	40.50	3.7X
KUR	8.55	226	ePn	02	09.30	3.8X
			eS	03	42.00	
MGD	9.20	342	iPnd-	02	18.00	3.8X
			eS	03	58.00	
SHO	10.10	225	ePn	02	21.50	-4.7X
Z	14s	1.00um				
YSS	10.12	249	iPn	02	30.00	3.5X
Z	12s	0.50um				
			eS	04	24.00	
SEY	11.64	350	iPnd	02	52.50	6.1X
ASAJ	11.93	237	eP	02	52.80	2.5
HOOJ	12.86	230	eP	03	01.10	-1.4
AOMJ	15.67	232	eP	03	36.40	-1.9
YAK	17.95	316	iPd-	04	06.70	0.6
	1.1s	690.00nm			5.8mb	X
Z	11s	0.50um			4.1MszX	
E	12s	0.40um				
			iPP	04	17.00	
			iPPP	04	26.00	
			eS	07	26.00	
			eSS	07	35.00	
			ePcP	08	47.00	
			eScS	15	35.00	
NIIJ	18.95	228	P	04	15.80	-1.4
MAT	19.88	228	eP	04	26.00	-1.0
	1.1s	115.19nm			5.2mb	
			eS	07	58.00	
MTMJ	20.04	229	P	04	28.20	-0.5
ILT	20.37	27	iPc	04	31.60	0.0
	1.2s	79.00nm			5.0mb	
			i	04	50.00	91kmX
			iPPP	05	06.00	
			iS	08	11.00	
WKYJ	23.01	229	eP	04	59.20	1.2
YONJ	23.28	234	P	05	01.90	1.3
TIK	23.68	338	iPc	05	05.30	1.2
	1.4s	88.00nm			5.0mb	
			ipP	05	36.00	153kmX
			e	08	40.00	
			eS	09	12.00	
			esS	10	12.00	
			e	15	57.00	
TKSJ	23.94	232	eP	05	08.70	1.7
BOD	24.98	301	eP	05	17.10	0.5
	1.0s	50.00nm			4.9mb	
SHNJ	25.32	237	P	05	20.80	0.9
CIT	26.33	288	eP	05	30.20	1.1
KUMJ	26.71	235	P	05	33.10	0.4
TTA	27.41	47	eP	05	38.70	-0.2
	0.7s	5.08nm			4.2mb	
			epP	06	04.78	121km
SVW	27.58	51	eP	05	40.90	0.5
IMA	28.65	40	eP	05	49.97	-0.1
	0.6s	1.77nm			3.9mb	
			ePcP	08	57.55	
KDC	29.52	58	eP	05	55.80	-1.8
	0.9s	24 80nm			4.9mb	
SLKM	30.27	52	eP	06	03.48	-0.8
PMS	30.50	50	eP	06	04.60	-1.8
FBA	31.06	43	eP	06	11.29	0.1
	0.8s	7.94nm			4.5mb	
			epP	06	37.98	122km
KLU	32.21	49	(P)	06	21.00	-0.3
ZAK	32.98	289	iPc	06	30.00	2.0
	1.2s	20.00nm			4.8mb	
Z	15s	0.29um			4.1MszX	
N	14s	0.19um				
E	12s	0.29um				
			e	06	53.00	101kmX
			e	09	09.00	
			e	14	22.00	
SSE	33.05	246	Pd	06	29.00	0.2
	1.0s	11.00nm			4.6mb	
MOY	33.83	293	ePc	06	37.00	1.7
	1.1s	48.00nm			5.2mb	
BALM	33.99	50	eP	06	36.96	0.2
NRI	35.78	326	(P)	06	51.30	-0.3
	1.4s	25.00nm			4.9mb	
			e	08	19.00	468kmX
			e	09	17.00	
INK	36.43	36	eP	06	59.50	2.4
	1.0s	9.00nm			4.6mb	
LZH	40.16	269	P	07	29.00	0.2
	1.5s	81.00nm			5.3mb	
			pP	07	59.50	136kmX
			PP	09	05.00	
KMI	48.41	258	Pc	08	34.50	-0.4
	1.5s	70.00nm			5.2mb	
			pP	08	45.00	36kmX
SVE	51.95	316	iP	09	00.00	-1.2
DAG	51.96	359	eP	09	00.30	-0.7
NEW	52.57	57	eP	09	05.23	-0.8
	1.0s	12.50nm			4.8mb	
FRU	53.62	295	eP	09	13.80	0.0
	1.8s	60.00nm			5.2mb	
			e	09	43.20	124km
LGPM	54.07	67	eP	09	18.59	1.4
SHL	54.81	268	iP	09	21.50	-1.4
CHTO	55.46	256	ePc	09	27.30	0.0
	1.1s	41.81nm			5.3mb	
ORV	55.73	68	eP	09	28.35	-0.7
FCC	56.05	36	ePc	09	36.90	5.8X
			pP	10	06.00	122km
LRM	56.58	57	eP	09	35.40	-0.1
			e	10	04.20	120km
GUN	56.89	274	P	09	36.60	-1.3
KKN	57.35	275	P	09	40.20	-0.8
CMB	57.39	69	eP	09	41.06	0.1
	0.9s	10.21nm			4.8mb	
PKI	57.42	274	P	09	40.60	-1.0
DMN	57.59	275	P	09	42.00	-0.7
GKN	57.60	275	P	09	41.80	-0.8
KVN	58.02	66	eP	09	45.91	0.4
MMPM	58.47	68	eP	09	49.48	0.7
BONR	58.65	67	eP	09	50.42	0.4
HVU	59.14	61	eP	09	54.02	0.8
FRB	59.79	21	ePc	09	55.50	-1.6
	0.9s	9.00nm			4.8mb	
NNT	59.82	251	iPc	09	58.80	0.9
ISA	60.13	69	eP	09	59.16	-0.8
	0.8s	5.97nm			4.7mb	
BW06	60.18	58	iPc	10	00.56	0.2
	0.8s	12.41nm			5.0mb	
			epPd	10	30.13	122km
DAU	60.91	61	eP	10	06.14	0.6
GSC	61.36	68	eP	10	08.31	0.0
ULM	61.46	44	eP	10	13.00	4.3X
ARUT	61.54	64	eP	10	09.85	0.3
EMUT	61.57	61	eP	10	10.57	0.7
MSU	61.74	63	ePc	10	11.22	0.2
			epPd	10	41.00	122km
RSSD	62.08	54	eP	10	13.16	0.0
	0.8s	8.56nm			4.8mb	
			epP	10	42.49	120km
PEC	62.14	70	eP	10	12.82	-0.6
	0.8s	15.77nm			5.0mb	
SRU	62.23	61	ePc	10	14.31	0.2
			epP	10	44.11	122km
PV09	63.42	61	eP	10	22.04	-0.1
PV10	63.56	61	ePc	10	23.42	0.4
			epP	10	52.84	120km
PV08	63.63	61	eP	10	23.60	0.0
			epP	10	53.24	121km
NB2	64.42	342	P	10	26.10	-1.9
	0.8s	2.70nm			4.2mb	
HFS	64.76	340	eP	10	27.30	-2.8X
	0.4s	0.90nm			4.1mb	
IPM	65.53	245	ePc	10	36.40	0.8
JAQ	66.30	31	ePc	10	38.50	-1.6
TUC	66.98	67	eP	10	44.86	0.1
	0.8s	4.56nm			4.4mb	
			epP	11	14.78	121km
ALQ	67.48	62	eP	10	48.38	0.3

0.9s 7.44nm 4.6mb
epP 11 18.47 122km
GRS 70.90 310 eP 11 08.00 -0.8
e 11 28.00 75kmX
EEO 71.16 37 eP 11 12.00 1.9
EKA 72.20 348 Pd 11 15.30 -0.8
0.6s 5.90nm 4.5mb
KSP 72.60 335 eP 11 17.70 -0.8
e 11 26.80 29kmX
GBA 72.73 270 P 11 19.80 0.0
0.7s 9.00nm 4.7mb
CLL 73.01 337 iPc 11 19.90 -1.0
LTX 73.25 64 eP 11 22.77 0.0
epP 11 53.01 120km
GAC 73.28 35 eP 11 23.00 0.5
WB2 73.77 202 eP 11 24.20 -1.4
0.9s 4.40nm 4.2mb
i 11 55.30 124km
WRA 73.78 202 P 11 25.00 -0.6
0.7s 2.50nm 4.1mb
MOX 73.96 338 e(P) 11 24.60 -1.8
1.7s 19.00nm 4.6mb
DMU 74.05 350 eP 11 26.70 -0.2
ELC 74.53 49 eP 11 30.26 0.4
DLF 74.60 350 eP 11 30.10 0.1
DCN 74.64 350 eP 11 30.20 0.0
KHC 74.88 336 eP 11 31.50 -0.3
1.0s 3.50nm 4.1mb
e 11 38.40 22kmX
e 12 28.00
GEC2 75.11 336 P 11 32.60 -0.6
0.6s 0.79nm 3.7mb X
e 11 39.50 22kmX
LMN 76.66 28 eP 11 43.50 1.7
KBA 76.83 335 iPd 11 43.00 0.0
CDF 77.05 340 iPd 11 43.40 -0.6
1.0s 8.80nm 4.5mb
RBL 77.36 335 P 11 45.10 -0.6
FLN 78.20 345 eP 11 49.70 -0.5
1.0s 23.20nm 4.9mb
GRR 78.62 345 eP 11 52.40 -0.1
1.3s 60.30nm 5.2mb
LOR 78.85 341 iPd 11 53.30 -0.5
1.3s 27.80nm 4.9mb
LPF 79.00 345 eP 11 54.60 0.1
1.2s 39.00nm 5.1mb
LBF 79.09 341 iPd 11 54.60 -0.6
0.6s 2.70nm 4.2mb
SSF 79.11 342 iPd 11 54.80 -0.4
0.6s 3.50nm 4.3mb
AVF 79.40 342 iPd 11 56.60 -0.1
0.8s 10.50nm 4.7mb
SMF 79.45 341 iPd 11 57.00 0.0
1.1s 30.50nm 5.0mb
LPL 79.91 339 iPd 12 00.30 0.5
0.9s 8.70nm 4.5mb
LPG 79.92 339 iPd 12 00.40 0.5
1.3s 27.80nm 4.9mb
MAF 80.10 342 iPd 12 00.90 0.4
1.0s 23.20nm 4.9mb
TCF 80.11 342 eP 12 00.70 0.1
1.1s 17.10nm 4.7mb
MFF 80.23 344 eP 12 01.50 0.3
1.3s 45.85nm 5.1mb
PGD 80.23 335 P 12 02.30 0.9
APV 80.25 334 P 12 01.70 0.3
LSF 80.27 343 iPd 12 01.60 0.2
1.0s 18.40nm 4.8mb
RJF 81.19 342 eP 12 06.60 0.4
0.8s 6.05nm 4.4mb
SBF 81.31 338 iPd 12 07.60 0.6
0.9s 14.10nm 4.8mb
MNS 81.36 334 P 12 06.90 -0.3
CAF 81.45 342 eP 12 08.40 0.8
1.3s 30.35nm 4.9mb
LFF 81.68 343 iPd 12 09.60 0.8
1.4s 50.95nm 5.1mb
LPO 81.85 343 eP 12 10.40 0.7
1.2s 27.95nm 4.9mb
LRG 81.95 339 iPd 12 11.10 0.9
1.2s 24.70nm 4.9mb
LMR 82.03 338 iPd 12 10.60 0.0
1.0s 11.00nm 4.6mb
PGF 82.17 336 iPd 12 11.20 -0.3
1.2s 14.90nm 4.7mb
MSR 82.60 331 P 12 13.30 -0.3
EFF 83.60 343 iPd 12 18.80 0.0

1.0s 11.80nm 4.7mb
ETOR 86.18 344 eP 12 32.00 0.3
EVIA 88.38 344 eP 12 42.30 -0.1
EJIF 91.00 346 eP 12 54.30 -0.2
S.D. = 0.9 on 123 of 132 obs.

% MAY 30, 1993 06h 07m 03.46± 1.15s
44.542 N ± 7.2km 7.062 E ±13.1km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.9 (GEN).

PZZ 0.05 143 P 07 05.42 -0.3
S 07 06.11
BHB 0.33 26 P 07 11.01 0.7
S 07 14.80
ENR 0.41 141 P 07 12.33 0.5
S 07 17.05
RRL 0.43 332 P 07 12.38 0.1
S 07 18.88
RSP 0.62 13 P 07 15.40 -0.7
RO8 0.63 113 P 07 15.86 -0.3
S.D. = 0.7 on 6 of 6 obs.

* MAY 30, 1993 06h 23m 13.86± 0.69s
21.188 S ± 7.8km 67.341 W ± 9.7km
DEPTH = 206.3 ± 11.9 km
CHILE-BOLIVIA BORDER REGION (124)

YJA 1.97 120 iPd 23 52.20 -1.2
S 24 18.00
HJA 2.70 139 iPd 24 02.00 1.3
S 24 26.00
ANT 3.79 228 eP 24 13.00 -0.8
eS 24 54.20
SLA 3.91 155 ePd 24 16.00 0.5
CCH 3.95 17 P 24 17.60 1.4
ZOBO 4.95 351 P 24 29.00 0.0
ARE 6.13 319 eP 24 44.00 0.1
eS 25 49.00
SIV 7.88 50 P 25 04.70 -1.9
PPD 14.93 96 eP 26 36.60 0.3
RSTA 17.21 105 eP 27 03.30 -0.2
VAO 18.97 99 eP 27 21.80 -0.1
BAO 19.17 76 iPd 27 24.70 0.6
WRA 133.95 209 Pdiff 39 04.30 -3.7X
0.8s 0.50nm
S.D. = 1.1 on 12 of 13 obs.

? MAY 30, 1993 07h 00m 17.22± 5.33s
29.896 N ±50.8km 16.743 W ±14.9km
DEPTH = 5.0km (geophysicist)
CANARY ISLANDS REGION (394)
MD 3.3 (MDD).

CTFE 1.47 163 eP 00 43.20 -1.2
iS 00 59.40
TBT 1.59 220 iP 00 46.00 0.0
iS 01 06.00
GGC 2.02 151 iP 00 53.50 1.2
iS 01 15.50
CFTV 2.76 122 iP 01 02.50 -0.4
e 01 30.10
S.D. = 1.7 on 4 of 4 obs.

MAY 30, 1993 07h 41m 38.28± 4.04s
39.017 N ±34.0km 27.613 E ± 9.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

DST 0.98 53 iPn 41 56.90 -0.1
EZN 1.28 309 ePn 42 02.10 0.0
EDC 1.34 8 ePn 42 03.00 0.0
KCT 1.36 25 iPn 42 03.40 0.2
KGT 1.45 351 iPn 42 04.40 -0.1
S.D. = 0.2 on 5 of 5 obs.

? MAY 30, 1993 08h 14m 36.28± 4.25s
39.806 N ±24.7km 29.296 E ±28.7km
DEPTH = 5.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

DST 0.55 249 ePg 14 47.00 -0.4
eSg 14 56.30
YLV 0.76 4 ePn 14 51.40 -0.2

KCT 0.85 302 iPn 14 52.40 -0.7
KGT 1.66 294 ePn 15 07.40 1.3
S.D. = 1.5 on 4 of 4 obs.

* MAY 30, 1993 08h 32m 26.09± 0.85s
23.295 N ±10.2km 100.371 E ± 7.8km
DEPTH = 33.0km (normal)
4.6mb (6 obs.)
YUNNAN, CHINA (318)

KMI 2.83 49 Pnd 33 10.00 -0.1
Pg 33 14.50
Sg 33 49.50
BDT 6.16 192 ePn 33 57.00 -0.1
ePg 34 23.00
eSg 35 43.50
SHL 8.06 288 ePn 34 26.00 2.0
eSn 36 40.00
LZH 13.10 13 eP 35 32.50 -0.1
2.0s 30.00nm 5.0mb
Z 12s 0.68um 5.5Msz
GUN 13.86 292 P 35 43.00 0.2
1.1s 61.00nm 5.3mb
PKI 14.17 291 P 35 45.80 -1.1
KKN 14.34 291 P 35 48.80 -0.2
0.9s 26.00nm 4.8mb
DMN 14.44 290 P 35 48.80 -1.6
GKN 14.94 292 P 35 56.60 -0.2
BJI 21.38 35 eP 37 12.50 -0.4
1.5s 29.00nm 4.5mb
Z 16s 0.64um 4.1MszX
KUMJ 28.36 64 eP 37 59.50 -19.8X
WRA 54.27 140 P 41 57.20 5.8X
0.6s 1.90nm 4.3mb
HFS 68.46 328 eP 43 28.30 1.5
0.5s 1.30nm 4.2mb
S.D. = 1.1 on 11 of 13 obs.

& MAY 30, 1993 08h 55m 32.88s
37.638 N 118.943 W
DEPTH = 8.2km
CALIFORNIA-NEVADA BORDER REGION (40)
<GM-P>. MD 3.1 (GM).

MEMM 0.03 6 iPc 55 34.57 0.0
MCSM 0.03 61 P 55 34.61 -0.3
MMPM 0.07 248 iPc 55 34.94 -0.4
ORC 0.23 91 P 55 37.77 0.0
CASR 0.32 101 P 55 39.40 -0.1
MRCM 0.35 84 ePc 55 39.86 -0.2
BHPR 0.50 133 P 55 42.58 -0.4
CWCR 0.53 106 P 55 43.15 -0.4
BONR 0.60 58 ePc 55 44.48 -0.5
CMB 1.21 290 eP 55 54.76 -0.8
eS 56 09.33
BAVM 1.66 271 P 56 07.11 4.8
PHBM 1.66 214 P 56 03.79 1.4
BRMM 1.70 242 P 56 04.19 1.2
VPEM 1.91 151 P 56 08.31 2.1
PRCM 1.93 225 P 56 07.46 1.2
ISA 2.01 169 eP 56 08.81 1.3
eS 56 33.84
CSTL 2.03 271 P 56 09.85 2.1
EKH 2.03 242 P 56 09.42 1.7
LTR 2.03 249 P 56 08.92 1.2
BHRM 2.06 245 P 56 09.60 1.4
GHS 2.07 256 P 56 09.75 1.4
ARN 2.08 263 eP 56 08.76 0.3
PHAM 2.15 213 eP 56 09.66 0.2
BVYM 2.16 247 P 56 10.89 1.2
SAO 2.18 247 eP 56 10.26 0.3
eS 56 39.74
WBSM 2.19 163 P 56 13.35 3.0
WJPM 2.25 170 P 56 13.65 2.6
BPRM 2.55 242 P 56 15.73 0.6
BCH 2.62 201 eP 56 16.54 0.3
MARC 2.65 187 P 56 17.93 1.3
ORV 2.77 314 ePn 56 19.76 1.4
eS 56 56.58
31 obs. ossociated

? MAY 30, 1993 09h 28m 31.36± 4.09s
38.483 N ±38.3km 22.052 E ±10.6km
DEPTH = 33.0km (normal)
GREECE (364)

AGG 0.58 22 ePg 28 42.62 -0.5

30 09h

		eSg	28 55.10			
LIT	1 65 12	ePb	28 58.60	0.2		
		eSb	29 22.89			
IGT	1.70 309	ePb	28 59.14	0.0		
PAIG	1.92 41	ePn	29 02.44	0.2		
OUR	2.38 38	ePn	29 08.80	0.0		
SOH	2.54 23	ePn	29 11.42	0.2		
KNT	2.75 13	ePn	29 14.30	0.2		
OHR	2.80 340	eP	29 54.20	39.4X		
SRS	2.89 24	ePn	29 16.00	0.0		
S.D. = 0.3	on 8 of 9 obs.					

? MAY 30, 1993 09h 37m 53.25± 13.45s
42.552 N ±110.km 23.045 E ±24.2km
DEPTH = 10.0km (geophysicist)
BULGARIA (359)

KNT	1.39 185	ePg	38 19.00	0.3		
		eSg	38 32.50			
SRS	1.49 164	ePb	38 20.50	0.4		
		eSb	38 35.30			
SOH	1.74 172	ePb	38 23.90	0.1		
		eSb	38 41.70			
THE	1.92 182	iPb	38 25.82	-0.4		
FNA	2.16 216	ePb	38 29.90	0.0		
OUR	2.32 162	iPn	38 31.74	-0.4		
		eSn	38 55.50			
S.D. = 0.4	on 6 of 6 obs.					

% MAY 30, 1993 09h 38m 42.94± 1.71s
10.042 N ±15.2km 69.777 W ±13.0km
DEPTH = 10.0km (geophysicist)
VENEZUELA (101)
MD 3.4 (CAR).

TOV	0.25 183	iPgc	38 48.60	0.3		
		iSg	38 53.00			
SDV	1.43 216	iPnd	39 08.90	-0.1		
		iSn	39 28.50			
CEOS	1.74 125	iPc	39 13.20	-0.3		
		iS	39 35.40			
GUAC	2.47 86	iPd	39 24.20	0.1		
		iS	39 58.90			
CAR	2.84 80	eP	39 33.60	4.3X		
		eS	40 09.70			
OLLA	2.93 90	eP	39 31.00	0.5		
		iS	40 07.00			
LLAV	2.95 81	eP	39 31.10	0.2		
		iS	40 10.00			
GUAN	4.07 91	eP	39 46.00	-0.7		
		eS	40 48.40			
S.D. = 0.5	on 7 of 8 obs.					

• MAY 30, 1993 09h 57m 30.41± 2.04s
8.682 N ±19.6km 67.071 W ±12.2km
DEPTH = 33.0km (normal)
VENEZUELA (101)
MD 3.0 (CAR).

CEOS	1.30 286	eP	57 52.50	0.1		
		iS	58 10.50			
OLLA	1.35 11	iPc	57 52.50	-0.8		
		iS	58 10.80			
GUAC	1.51 353	iPd	57 55.80	0.2		
		iS	58 15.40			
LLAV	1.80 8	iPd	57 59.20	-0.5		
		iS	58 22.60			
CAR	1.82 4	eP	58 01.00	1.0		
		iS	58 22.70			
GUAN	1.89 48	iPd	58 01.30	0.2		
		iS	58 27.70			
TOV	2.90 292	ePn	58 17.10	1.7X		
SDV	3.53 274	ePn	58 24.30	-0.1		
S.D. = 0.7	on 7 of 8 obs.					

MAY 30, 1993 10h 17m 48.85± 0.61s
48.722 N ± 6.5km 153.188 E ± 4.9km
DEPTH = 157.2 ± 5.7 km
4.6mb (48 obs.)
KURIL ISLANDS (221)

SKR	2.71 43	ePn	18 32.20	-1.2		
		eS	19 04.50			
KUR	5.04 228	ePn	19 05.50	1.8		
		eS	20 05.00			
PET	5.52 37	ePn	19 10.00	0.0		
		eS	20 10.00			

YSS	7.25 260	ePn	19 35.00	1.8		
MRRJ	10.57 238	eP	20 17.20	0.2		
MGD	11.49 354	ePn	20 29.00	0.0		
OFUJ	12.71 225	eP	20 40.30	-4.6X		
		eS	22 52.80			
MAT	16.38 228	iPd	21 30.00	-1.0		
		eS	22 01.00			
YAK	18.70 324	eP	21 56.10	-1.1		
	0.8s 157.00nm		5.4mb			
		e(S)	25 19.00			
ILT	23.85 26	iPd	22 47.20	-1.1		
	1.0s 20.00nm		4.6mb			
BOD	24.72 306	eP	23 00.50	3.9X		
CIT	25.25 293	eP	23 01.20	-0.4		
SVW	31.07 47	eP	23 53.60	0.0		
ZAK	31.93 292	eP	24 01.00	-0.1		
	1.0s 8.00nm		4.5mb			
		e	24 37.00			
IMA	32.20 38	ePd	24 03.04	-0.5		
	0.6s 3.45nm		4.3mb			
KDC	32.90 53	e(P)	24 07.60	-1.9		
PMR	34.17 46	e(P)	24 20.20	-0.1		
FBA	34.60 40	eP	24 23.78	-0.2		
	0.6s 8.03nm		4.6mb			
KLU	35.71 46	eP	24 32.87	-0.6		
BALM	37.49 46	eP	24 49.09	0.6		
LZH	37.92 269	eP	24 52.00	-0.4		
	1.2s 28.00nm		4.9mb			
INK	39.97 34	ePd	25 10.60	1.9		
	0.5s 3.00nm		4.2mb			
GUN	54.90 274	P	27 05.20	-0.4		
KKN	55.38 274	P	27 08.00	-0.9		
PKI	55.44 274	P	27 07 60	-1.8		
DMN	55.61 274	P	27 09.20	-1.4		
GKN	55.66 275	P	27 09.60	-1.2		
NEW	55.96 54	eP	27 12.39	-0.2		
	1.0s 3.50nm		4.2mb			
FCC	59.59 34	ePd	27 43.20	5.6X		
LRM	59.97 54	eP	27 41.30	0.5		
TNP	62.36 63	eP	27 56.44	-0.4		
	0.8s 1.44nm		3.9mb			
FRB	63.17 19	eP	28 00.00	-1.5		
	0.8s 3.00nm		4.3mb			
BW06	63.55 55	eP	28 04.69	0.1		
	0.7s 1.66nm		4.1mb			
ULM	65.00 41	eP	28 15.50	1.9		
RSSD	65.52 51	eP	28 17.05	-0.2		
	0.7s 4.94nm		4.5mb			
NB2	66.38 341	P	28 20.40	-1.9		
	0.7s 1.50nm		4.0mb			
HFS	66.63 339	eP	28 21.50	-2.3		
	0.3s 2.60nm		4.6mb			
PV10	66.87 58	eP	28 26.46	0.5		
		ePcP	29 01.68			
JAO	69.81 28	eP	28 42.00	-1.5		
WB2	70.39 199	eP	28 46.40	-1.0		
	0.9s 1.80nm		3.9mb			
WRA	70.40 199	P	28 46.80	-0.6		
	1.0s 0.70nm		3.4mb X			
GBA	70.51 269	P	28 48.00	-0.3		
	0.8s 5.00nm		4.4mb			
KSP	74.16 333	ePc	29 09.40	0.2		
EKA	74.44 346	P	29 11.00	0.3		
	0.9s 6 60nm		4.4mb			
CLL	74.69 335	iPc	29 12.10	-0.1		
EEO	74.71 34	eP	29 14.50	2.1		
BRG	74.82 335	e(P)	29 12.90	-0.1		
PRU	75.44 334	P	29 16.50	0.0		
	1.0s 8.20nm		4.4mb			
WTS	75.64 339	eP	29 18.00	0.4		
	0.8s 7.60nm		4.5mb			
MOX	75.67 336	eP	29 18.20	0.4		
	1.5s 14.00nm		4.5mb			
KHC	76.49 334	P	29 23.40	1.0		
	1.0s 5.40nm		4.2mb			
		e	29 28.10			
GRF	76.64 336	iPc	29 24 20	0.9		
	1.1s 11.00nm		4.5mb			
GEC2	76.71 334	P	29 23.10	-0.6		
	0.8s 1.73nm		3.9mb			
		e	29 25.70			
		e	29 28.50			
GAC	76.82 33	eP	29 25.00	0.8		
ENN	76.99 339	eP	29 26.00	0.9		
	0.9s 7.50nm		4.4mb			
MIAR	78.04 51	eP	29 31 22	0.1		
	0.7s 3.14nm		4.2mb			

KBA	78.40 333	iPc	29 33.60	0.4		
	1.1s 15.50nm		4.6mb			
WTTA	78.73 334	iPc	29 35.90	0.9		
CDF	78.85 338	iPd	29 35.50	0.0		
	1.2s 15.45nm		4.6mb			
RBL	78.91 333	P	29 35.20	-0.6		
HAU	79.46 338	iPd	29 38.60	-0.1		
	1.2s 14.90nm		4.6mb			
BSF	79.51 338	iPd	29 38.60	-0.5		
	1.1s 8.80nm		4.4mb			
LMN	80.15 26	eP	29 46.00	3.7X		
FLN	80.27 343	eP	29 42.80	-0.1		
LDF	80.36 342	eP	29 43.10	-0.3		
GRR	80.70 343	eP	29 45.30	0.1		
	0.9s 14.60nm		4.7mb			
LOR	80.75 339	iPd	29 45.40	-0.1		
	1.1s 16.10nm		4.7mb			
LBF	80.99 339	iPd	29 46.60	-0.2		
	0.7s 3.40nm		4.2mb			
SSF	81.03 340	iPd	29 47.00	0.1		
	1.1s 14.90nm		4.6mb			
AVF	81.32 340	iPd	29 48.70	0.3		
	1.0s 21.60nm		4.8mb			
SMF	81.34 339	iPd	29 48.80	0 2		
	0.9s 23.10nm		4.9mb			
BOB	81.63 335	P	29 51.90	1.7		
LPL	81.68 337	eP	29 51.60	1.0		
	1.0s 16.20nm		4.7mb			
LPG	81.69 337	eP	29 51.70	0.9		
	1.1s 28.35nm		4.9mb			
BDI	81.95 334	P	29 53.10	1.2		
MAF	82.03 340	eP	29 52.90	0.7		
	1.0s 20.40nm		4.8mb			
TCF	82.05 340	eP	29 52.80	0.5		
	1.1s 19.05nm		4.7mb			
LSF	82.24 341	iPd	29 53.70	0.4		
	1.2s 47.90nm		5.1mb			
SBF	83.02 336	eP	29 57.20	-0.2		
	0.9s 16.70nm		4.9mb			
RJF	83.14 340	iPd	29 58.50	0.6		
	1.0s 18.80nm		4.9mb			
CAF	83.37 340	eP	29 59.20	0.1		
	1.0s 15 60nm		4.8mb			
LFF	83.66 341	eP	30 01.30	0.8		
	1.1s 23.70nm		4.9mb			
LRG	83.69 336	eP	30 00.30	-0.4		
	0.9s 15.05nm		4.8mb			
LMR	83.77 336	eP	30 01.40	0.3		
	1.2s 31 55nm		5 0mb			
PGF	83.80 334	eP	30 01.20	-0.2		
	0.9s 4.40nm		4.3mb			
LPO	83.80 340	eP	30 02.00	0.8		
	1.1s 22.45nm		4.9mb			
S.D. = 0.9	on 82 of 86 obs.					

? MAY 30, 1993 10h 20m 56.75± 6.13s
38.994 N ±53.9km 27.594 E ± 9.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

DST	1.01 52	iPn	21 15.80	-0.1		
EZN	1.29 311	ePn	21 20.70	0.1		
EDC	1.37 9	ePn	21 22.00	0.2		
KCT	1.38 25	iPn	21 22.30	0.2		
KGT	1.47 351	iPn	21 22.90	-0.4		
S.D. = 0.4	on 5 of 5 obs.					

MAY 30, 1993 10h 27m 34.94± 0.60s
41.257 N ± 6.4km 21.923 E ± 4.5km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 1.5 (SKO).

GRG	0.47 130	ePg	27 44.30	-0.2		
		eSg	27 52.40			
VAY	0.49 82	Pg	27 44.70	-0.2		
		iSg	27 51.70			
FNA	0.63 221	ePg	27 46.76	-0.9		
		eSg	27 55.50			
KNT	0.74 97	ePg	27 48.52	-1.0		
		eSg	28 00.50			
SKO	0.80 333	ePg	27 50.50	0.0		
		iSg	28 04.40			
OHR	0.86 261	ePg	27 52.00	0.4		
		eSg	28 06.20			
SOH	1.17 111	ePb	27 56.80	0.0		

```
                    eSb    28 14.30
LIT      1.23 159 ePb    27 57.80   -0.1
OUR      1.81 120 ePb    28 07.68    1.3
PAIG     1.88 134 ePb    28 08.00    0.5
                    eSb    28 34.20
      S.D. = 0.7   an  10 of  10 obs.
-----------------------------------------
% MAY 30, 1993  12h 26m 08.38± 0.80s
   40.275 N ± 7.0km    29.645 E ± 6.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.7 (ISK).

YLV      0.36 325 iPg    26 15.60   -0.2
                 eSg    26 20.00
EYL      0.49  53 ePg    26 18.30    0.0
                 eSg    26 25.30
KCT      0.99 269 ePn    26 27.30    0.2
CTT      1.27 314 iPn    26 32.30    0.3
EDC      1.36 274 ePn    26 33.00   -0.4
KHL      1.95 183 ePn    26 42.00    0.0
      S.D. = 0.3   an   6 of   6 obs.
-----------------------------------------
% MAY 30, 1993  13h 24m 23.46± 0.61s
   28.001 S ± 5.5km    26.753 E ± 7.2km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA          (584)
      ML 2.3 (PRE).

SEK      0.83 113 iPd    24 40.70    0.5
                 S      24 51.00
BFS      1.10   2 eP     24 44.50   -0.2
                 S      24 57.40
BLF      1.21 204 iPc    24 46.50   -0.1
                 S      25 03.50
PRY      1.25  31 eP     24 47.20    0.0
                 S      25 04.50
SWZ      1.51 302 eP     24 52.00    0.7
                 S      25 13.00
FRS      2.15 215 eP     24 59.90   -0.5
SLR      2.64  32 eP     25 07.00   -0.6
                 S      25 34.50
      S.D. = 0.6   an   7 of   7 obs.
-----------------------------------------
   MAY 30, 1993  14h 12m 20.05± 0.08s
    3.674 S ± 2.3km  142.703 E ± 3.0km
   DEPTH =   6 0km  (geophysicist)
   5.9mb ( 61 obs.)  5.6Msz ( 42 obs.)
 NEAR N COAST OF NEW GUINEA, PNG.(200)
      Mw 5.8 (GS), 5.8 (HRV). Depth
      from broadband displacement
      seismograms.
      FAULT PLANE SOLUTION. P-Waves
       NP1:Strike=278 Dip=81 Slip=  32
       NP2.       182     58      169
       Principal Axes:
        T                Plg=29  Azm=145
        P                   15       46
      Comment: The focal mechanism is
        poorly controlled and
        corresponds to strike-slip
        faulting with a large reverse
        component. The preferred fault
        plane is not determined.
      RADIATED ENERGY
       No. of sta:  14  Focal mech.  M
       Energy        1.1±0.2*10**13 Nm
      MOMENT TENSOR SOLUTION
      Dep  19           No. of sta: 21
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 0 16       Mtt= 0.72
        Mff=-0.88       Mrt=-3.94
        Mrf=-1.27       Mtf= 4.69
       Principal axes:
        T  Val=  6.92  Plg=30  Azm=144
        N       -1.49     52      283
        P       -5.43     21       42
      Best Double Couple:Mo=6.2*10**17
       NP1:Strike=180 Dip=53 Slip= 172
       NP2:       275     84       37
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 44S, 94C
      Centroid Location:
      Origin Time        14:12:30.8 0.2
      Lat  3.50S 0.02 Lon 142.81E 0.02
      Dep  40.9 BDY Half-duration  1.9
```

```
        Moment Tensor;   Scale 10**17 Nm
          Mrr=-2.93 0.08  Mtt=-1.74 0.11
          Mff= 4.67 0.12  Mrt=-2.35 0.16
          Mrf= 1.51 0.15  Mtf= 2.70 0.09
         Principal Axes:
          T  Val=  5.71  Plg= 5  Azm=289
          N       -0.13      43      194
          P       -5.58      46       23
        Best Double Couple:Mo=5.6*10**17
         NP1:Strike= 55 Dip=56 Slip= -34
         NP2:       165     63     -141

MNDI     2.64 159 eP     13 10.00    5.8X
MDG      3.44 117 eP     13 21.30    6.0X
PMG      7.21 142 eP     14 12.00    3.4X
                 eS     15 32.00
MTN     14.63 231 eP     15 49.00   -0.6
CTA     16.68 168 iP     16 19.50    3.4X
         1.0s    25.00nm          4.3mb X
                 i      16 29.00
                 i(PP)  16 46.00
                 iS     19 33.00
CTAO    16.68 168 P      16 16.20    0.1
         1.2s    98.94nm          4.8mb X
GUA     17.24   7 e(P)   16 25.70    2.5X
         1.3s   984.62nm          5.8mb
       Z 22s     4.74um          4.0MszX
GUMO    17.28   7 ePd    16 25.10    1.4
         1.4s   604.70nm          5.5mb
       Z 22s     5.51um          3.6MszX
                 eS     19 37.00
PJG     17.28   7 eP     16 23.70    0.0
SVO     17.85 109 eP     16 35.00    4.2X
HNR     18.06 109 eP     16 38.00    4.6X
WB2     18.11 206 eP     16 33 40   -0.6
                 eS     19 49.00
KNA     18.22 228 eP     16 35.00   -0.4
         0.3s   223 00nm          5.8mb
                 eS     19 51 00
DAV     20.16 302 eP     17 04.00    5.8X
                 eS     20 50.10
CTB     21.39 300 ePd    17 13.00    2.2X
ASPA    21.62 202 iPc    17 13.00   -0.1
       Z 22s    28.30um          5.6Msz
                 eS     21 09.30
CGP     21.63 304 eP     17 10.00   -3.2X
QLP     22.83 176 iPd    17 26.20    1.1
PLP     22.99 310 eP     17 28.70    2.0X
BRS     25.47 159 iPc    17 50.80    0.1
         1.0s    15.00nm          4.7mb X
                 i      18 22.00
                 iS     22 15.00
TSM     26.04 287 ePc    17 58.10    2.0X
PGP     27.52 309 eP     18 10.00    0.4
TGY     27.89 310 eP     18 11.00   -2.1
ARMA    27.91 163 iPc    18 13.60    0.4
         0.9s    88.00nm          5.6mb
STK     28.08 182 iPc    18 13.90   -0.6
         0.9s    25.30nm          5.0mb
                 eS     23 59.20
KKM     28.16 290 ePc    18 12.50   -3.0X
         1.5s   225.00nm          5.8mb
MBL     28.22 230 eP     18 16.00    0.0
         0.4s    45.00nm          5.6mb
BKM     28.63 121 iPc    18 33.50   13.8X
DZM     29.41 130 iPd    18 25.10   -1.6X
BCP     29.59 313 eP     18 27.00   -1.5
CVP     29.59 317 eP     18 27.00   -1.3
BAG     29.61 313 ePc+   18 27.60   -1.1
                 eS     23 19 60
FORT    30.30 206 eP     18 34 50    0.0
         0.5s    63 00nm          5.7mb
RIV     31.02 166 eP     18 44.30    3.5X
       Z 18s     0.48um          4.2MszX
BWA     31.05 171 iPc    18 42.60    1.5
                 ipP    18 49.30   23kmX
                 i      18 51.90
ADE     31.36 186 iPc    18 44.70    0.9
CAN     32.03 170 iPc    18 50 80    1.1
                 ipP    18 57.50   23kmX
                 i      18 58.80
CNB     32.08 170 iPd    18 51.80    1.6
         1.0s    50.00nm          5.4mb
MEEK    32.45 223 eP     18 53.30   -0.2
TOO     33.83 176 iPc    19 06.50    1.1
         0.8s   251.00nm          6.2mb
LEM     35.07 263 ePc    19 26.50   10.0X
```

```
         1.0s    40.00nm
       Z 18s     2.75um          5.0Msz
                 eS     24 14.00
                 eLR    27 30.00
TATO    35.15 325 ePd    19 17.18    0.4
                 epPd   19 19.25    7kmX
KAGJ    36.45 343 P      19 28.80    1.1
HKC     38.01 314 eP     19 42.80    1.9
                 eS     25 34.00
TKSJ    38 33 348 P      19 44.10    0.6
RKG     38.92 215 eP     19 50.00    1.6
         0.6s    23.00nm          5.0mb
YONJ    39.62 348 P      19 55.00    0.8
KGM     39.77 278 eP     19 56.00    0.2
SSE     40.21 331 iPd    19 59.96    0.9
         1.5s   185.00nm          5.5mb
       Z 20s     4 10um          5.3Msz
       N 15s     1.50um
       E 16s     1.10um
                 epPd   20 02.03    7kmX
                 S      26 05.00
                 sS     26 40.00
                 S      29 08.00
MAJO    40.23 354 ePd    19 58 35   -0.9
         1.2s   104.70nm          5.4mb
                 epPd   20 00 34    7kmX
MAT     40.23 354 iPd    19 58 30   -0.9
         1.5s   111.11nm          5.3mb
       Z 20s     6.03um          5.4Msz
                 eS     25 52.00
YAMJ    41.71 357 eP     20 11.50    0.2
IPM     42.44 281 ePd    20 18.90    1.2
                 e      22 11.00
LOE     45.53 299 iPd    20 43.50    0 8
MRRJ    45.91 358 P      20 45.90    0.7
ENH     46.34 319 iPd    20 49.93    1.1
                 epPd   20 51.83    6kmX
SAP     46.53 359 eP     20 50.00   -0.1
SNZO    47.20 147 P      20 53.30   -2.2X
ASAJ    47.57 360 iPd    20 59.00    0.6
VLA     47.59 349 iP     21 00.00    1.5
         1.5s   576.00nm          6.5mb
       N 20s     0 60um
                 i      21 06.00
                 e      22 36.00
                 i      22 50.00
                 iPPP   23 46.00
                 iS     27 53.00
                 i      30 50.00
BDT     47.88 297 eP     20 53.50   -7.7X
         1.0s    20.70nm          5.2mb
KMI     48.20 309 ePd    21 05.60    1.7
         1.5s   610.00nm          6.5mb
       Z 22s     6.20um          5.5Msz
       N 16s     1.90um
       E 16s     1.60um
                 epPd   21 07.50    6kmX
                 sP     21 34.50
                 PP     23 03.00
                 S      28 03.00
                 sS     28 32.00
CHTO    48.52 299 ePd    21 06.64    0.4
                 epPd   21 08.29    6kmX
KUR     48.91   5 iPc    21 10.00    1.3
         1.5s   610.00nm          6.4mb
       Z 20s     3.10um          5.3Msz
       E 20s     3.10um
                 e      21 23.00
                 (S)    28 10.00
XAN     49.21 322 iPd    21 11.82    0.5
                 epPd   21 13.64    6kmX
MDJ     49.49 348 iPd    21 13.65    0.4
                 epPd   21 15.22    5kmX
BJI     49.86 333 eP     21 16.00   -0.1
         1.5s   230.00nm          5.9mb
       Z 20s     4.79um          5.5Msz
       N 18s     3.23um
                 esP    21 30.00
                 eS     28 24.00
                 esS    28 44.00
                 eSS    31 56.00
YSS     50.47 °  0 ePd    21 20.92    0.3
         1.2s   110.00nm          5.7mb
       Z 19s     1.60um          5.1Msz
                 epPd   21 22.82    6kmX
                 e      22 38.00
                 eS     28 30.00
```

30d 14h

				eSS	28	49.00				0.8s	50.00nm		5.8mb	SIT	88.69	33	eP	25	16.00	0.6
				e	31	06.00		PAE	67.67	107	eP	23	20.30	-0.4		1.1s	72.80nm		5.9mb
LZH	53.69	321	iPd	21	46.42	1.1			1.1s	106.00nm		6.0mb	SVE	88.70	327	ePd	25	15.00	-0.6
	1.5s	498.00nm				6.3mb		PPN	67.80	107	eP	23	21.30	-0.2		1.6s	60.00nm		5.6mb
Z	22s	3.51um				5.4Msz			0.8s	81.90nm		6.0mb		Z	20s	2.00um		5.5Msz
E	16s	1.52um						TVO	67.99	108	eP	23	22.70	-0.1		N	20s	0.30um		
			epPd	21	48.40	7kmX			0.9s	78.30nm		5.9mb		E	20s	1.50um		
			sP	22	21.00			WMO	68.26	320	iPd	23	24.68	0.6			eS	36	00.00
			i	22	52.00						epPd	23	26.50	6kmX			ePS	37	11.00
			PP	23	53.00			UER	68.77	330	iPd	23	27.00	0.1	KAT	89.53	309	eP+	25	18.00	-1.9
			S	29	18.00				1.3s	130.00nm		6.0mb					e	28	53.00	
			PS	29	45.00			Z	16s	0.75um		5.0MszX					eS	35	49.00	
HIA	56.37	342	iPd	22	04.28	-0.1		N	16s	0.41um							e	36	07.00	
			epPd	22	06.02	6kmX		E	16s	0.58um			ARU	89.76	326	ePd	25	19.43	-1.1
SHL	57.17	304	iP	22	11.00	0.3					e	23	44.00			1.5s	120.00nm		5.9mb
			iS	30	04.00						e	25	57.00			Z	19s	1.50um		5.4Msz
PET	58.06	11	iPd-	22	16.00	-0.2					PPP	27	37.00			N	18s	0.50um		
	1.5s	420.00nm				6.3mb					eS	32	30.50			E	20s	1.50um		
Z	20s	2.30um				5.3Msz					e	32	55.00					epPd	25	21.34	6kmX
N	20s	1.42um									e	33	18.00					e	25	30.50	
E	20s	1.44um									e	36	57.00					e	25	37.00	
			e	22	28.00						e	39	50.00					e	28	56.00	
			e	23	07.00			PMO	69.16	105	eP	23	30.20	0.2				eS	36	06.00	
			eS	30	32.00				1.1s	106.00nm		5.9mb					eSS	42	12.00	
LSA	59.43	308	iPd	22	27.95	1.1		VAH	69.43	105	eP	23	31.60	0.0	INK	91.08	22	eP	25	27.00	0.6
			epPd	22	30.10	7kmX			1.3s	114.80nm		5.9mb			0.6s	5.00nm			5.0mb	
CIT	60.72	340	eP	22	36.00	1.3		TPT	69.43	105	eP	23	32.00	0.4	MCW	95.69	42	P	25	48.80	0.7
Z	18s	2.92um				5.5Msz			1.1s	192.40nm		6.2mb	GMW	95.74	43	P	25	48.80	0.5	
			eS	30	54.00			RUV	69.67	105	eP	23	33.10	0.0	LGPM	95.76	49	P	25	49.30	0.5
SMY	62.13	21	eP	22	44.20	0.0			1.2s	126.10nm		5.9mb	WDC	95.99	50	P	26	00.00	10.4X	
DRV	62.90	181	eP	22	49.50	0.5		NDI	70.52	302	iPd	23	37.80	-0.4		Z	20s	2.87um			5.7Msz
			S	31	22.00				1.2s	196.88nm		6.1mb	SHW	96.14	44	P	25	50.60	0.2	
GUN	63.02	304	Pd	22	51.40	0.4		POO	71.25	291	iPc	23	39.50	-3.2X	LON	96.42	44	P	25	51.10	-0.4
HON	63.12	64	P	23	00.00	8.7X		PRZ	73.90	316	eP	24	00.00	1.9	LBFM	96.47	49	P	25	53.00	0.9
Z	18s	2.14um				5.3Msz			1.4s	600.00nm		6.4mb	ORV	96.79	51	P	25	53.80	0.5	
OPA	63.21	64	P	22	52.20	0.3					iS	33	32.00		ARN	96.80	53	P	25	54.00	0.6
PKI	63.30	303	Pd	22	52.80	0.0		SDN	74.93	30	eP	24	03.40	-0.2	SAO	96.87	54	P	26	00.00	6.3X
DMN	63.56	303	Pd	22	55.00	0.5		TIK	75.71	356	iPd-	24	07.00	-0.7		Z	20s	4.45um			5.9Msz
ZAK	63.60	333	iPd	22	54.00	0.1			1.6s	210.00nm		6.0mb	GRS	97.24	309	iPd	25	54.00	-1.5	
	1.4s	329.00nm				6.3mb		Z	18s	1.60um		5.4Msz			1.5s	120.00nm			6.3mb	
Z	17s	3.43um				5.6MszX					i	24	20.00					e	29	48.00	
N	17s	0.76um									e	26	55.00					i	36	30.00	
			eS	31	28.00						eS	33	45.00					eS	37	08.00	
			e	35	26.00						e	34	13.00					ePS	38	39.00	
MGD	63.90	5	iPd-	22	55.00	-0.7					ePPS	34	30.00		TAB	97.27	308	eP	25	56.00	0.4
	1.2s	250.00nm				6.3mb		ILT	76.34	14	iPd	24	11.40	0.0	GRO	97.61	313	eP	25	57.00	0.2
Z	18s	1.40um				5.2Msz			1.4s	299.00nm		6.2mb			1.5s	160.00nm			6.5mb	
N	18s	1.40um						Z	18s	2.00um		5 5Msz		Z	20s	2.00um			5.6Msz	
E	18s	0.80um						N	18s	0.60um				N	18s	1 50um				
			e	23	10.00			E	18s	0.50um				E	20s	2.00um				
			ePPP	26	50.00						i	26	58.00					eS	36	30.00	
			eS	31	30.00						eS	33	56.00		CMB	97.69	52	ePd	25	57.18	-0.2
			ePS	31	48.00						i	34	14.00			Z	19s	3.30um			5.8Msz
			e	32	46.00						iPS	34	42.00					ePPd	29	58.68	
			eSSS	38	32.00			FRU	76.65	315	iPd	24	15.00	1.3				eSKS	35	52.68	
GKN	64 09	303	Pd	22	58.20	0.4			1.4s	160.00nm		5.9mb					i	36	42.68	
TLY	64.36	334	iPd	22	59.56	0.6					eS	34	01.00					e	39	09.68	
			epPd	23	01.63	7kmX					e	34	22.00					eSS	43	22.68	
MHA	64.72	66	P	23	02.80	1.0					(SS)	39	01.00					e	44	51.68	
ADK	65.19	26	eP	23	04.20	0.0		QUE	79.58	301	iPd	24	31.20	0.9				eLQ	52	29.68	
	1.3s	537.20nm				6.6mb					eS	34	33.60					eLR	56	37.68	
BOD	65.47	344	iPd	23	06.00	0.0		SVW	79.96	26	ePd	24	32.60	1.1	CMB	97.69	52	ePd	26	03.68	6.3X
	1.5s	204.00nm				6.1mb		KDC	79.97	30	eP	24	31.90	0.4		Z	19s	3.30um			5.8Msz
MOY	65.55	333	iPd	23	07.50	1.0			1.1s	191.20nm		6.0mb					ePPd	29	58.68	
	1.4s	280.00nm				6.3mb		TTA	80.63	24	eP	24	35.30	0.2				eSKS	35	52.68	
			eS	31	55.60			RSO	80.95	27	P	24	35.80	-1.1				i	36	42.68	
YAK	66 26	353	iPd	23	11.00	0.1		CP2	81.51	26	P	24	39.00	-0.8				e	39	09.68	
	1.5s	773.00nm				6.7mb		NRI	81.66	343	iPd-	24	40.30	0.1				eSS	43	22.68	
Z	20s	1.40um				5.2Msz			1.1s	167.00nm		6.0mb						i	44	51.68	
N	20s	1.20um									e	24	50.00					eLQ	52	29.68	
E	20s	1.00um									eS	34	48.00					eLR	56	37.68	
			iPcP	23	26.00						eSS	40	06.00		BCH	98.00	55	P	26	00.00	1.1
			ePP	25	37.00			SLKM	82.12	27	P	24	42.00	-0.8	YKA	99.10	27	eP	26	02.90	-0.2
			iS	31	58.00			MAW	82.74	202	iPc	24	46.10	0.2		0.9s	5.00nm			5.2mb	
			ePS	32	18.00				1.1s	119.57nm		6.0mb	ISA	99.30	55	P	26	10.00	5.2X	
			eScS	33	18.00			IMA	82.95	22	iPd	24	47.90	0.7		Z	21s	3.90um			5.9Msz
			eSS	36	13.00				1.2s	112.80nm		5.9mb	PYA	99.48	314	iPc	26	04.00	-1.3	
			eSSS	39	26.00			PMR	83.02	27	eP	24	46.90	-0.4		1.0s	100.00nm			6.4mb	
KOD	66.41	283	eP	23	14.20	1.1			1.0s	140.50nm		6.1mb					i	30	06.00	
			eS	32	03.00			MID	83.58	29	eP	24	51.00	0.7				eS	36	40.00	
CSY	66.43	194	iPd	23	11.80	-0.2		KLU	84.43	27	P	24	54.90	0.2	NEW	99.51	42	P	26	05.50	0.1
	0.6s	28.80nm				5.7mb		FBA	84.75	24	eP	24	55.20	-0.9		0.8s	6.92nm			5.3mb	
HYB	66.64	291	ePd	23	13.70	-0.5		BALM	85.96	28	P	25	02.40	0.0		Z	22s	4.52um			5.9Msz
			eS	32	02.00			MAIO	86.68	307	iPd	25	08.00	1.6	KIV	99.75	314	ePd	26	05.40	-1.3
GBA	66.98	286	Pd	23	16.40	0.1					eS	35	47.00			2.0s	32.00nm			5.5mb	
	0.4s	999.90nm				7.4mb X		ASH	87.78	308	eP	25	12.00	0.4	PEC	100.45	56	Pdiff	26	09.80	-0.3
PPT	67.67	107	eP	23	20.40	-0.3			1.4s	190.00nm		6.2mb	MOS	101.50	326	ePdiff	26	12.00	-2.1	

30d 14h

			e	30	28.00			CEY	118.58	321	ePKP	31	10.90	0.1		BHB	123.41	323	PKP	31	17.96	-2.1X
KEV	102.14	341	ePdiff	26	16.00	-0 6		BHG	118.59	324	iPKPd	31	11.10	0.4		IMI	123.53	322	PKP	31	19.51	-0.9
OBN	102.19	326	iPdiff	26	16.50	-0.7		VOY	118.78	322	ePKP	31	10.50	-0.7		PGF	123.53	320	PKP	31	20.23	-0.2
	1.4s	54.00nm				6.0mb					epP'df	31	22.70			ENR	123.65	323	PKP	31	18.51	-2.1X
	Z 20s	1.90um				5.6Msz		RIY	118.78	321	ePKP	31	11 40	0.3		RRL	123.65	324	PKP	31	20.29	-0.5
	N 20s	1.00um						RBL	118.79	322	PKPd	31	10 00	-1.2		PZZ	123.69	323	PKP	31	19.70	-1.1
	E 20s	1.10um						UYO	118.97	53	iPKPc	31	11.50	-0.3		STV	123.69	323	PKP	31	19.24	-1.5
		iPPP	30	30.00				TRI	119.01	321	ePKP	31	11.10	-0.4		AUTN	123.77	322	PKP	31	21.18	0.1
		e	36	54.00							e	42	20.00			SBF	123.83	322	PKP	31	20.49	-0.5
		ePS	37	54.00				WIT	119.12	331	ePKP	31	14.00	2.5X		TOUF	123.87	322	PKP	31	21.01	-0.2
		e	40	28.00				FVI	119.19	323	PKP	31	11.60	-0.2		REVF	123.94	322	PKP	31	19.30	-1.9X
		eSS	45	02.00				FUR	119.30	325	ePKP	31	12.80	0.7		LOR	123.94	327	iPKPd	31	20.30	-0.7
LRM	102.96	44	ePdiff	26	23.50	2.3		WTS	119.54	330	ePKP	31	14.00	1.7			1.2s	59.50nm				
SRU	105.31	51	PKP	30	46.10	0 1			0.9s	19.80nm						EEO	123.98	34	ePKP	31	23.50	2.4X
KAF	105.35	334	iPdiff	26	30.20	-0.9		MIAR	119.55	52	PKP	31	12.00	-0.9		LBF	124.05	327	iPKPd	31	20.60	-0.7
	0.6s	2.60nm				5.4mb			Z 22s	2.28um				5.8Msz			1.1s	65.20nm				
KAF	105.35	334	iPKP	30	45.80	0.8		ROI	119.68	314	PKP	31	12.00	-1.1		DMU	124.11	339	ePKP	31	20.90	-0.2
	0.6s	2.50nm						VVI	119.70	322	PKP	31	13.00	0.1			0.7s	57.00nm				
TUC	105.91	58	PKP	31	00.00	12.8X		TNS	119.74	328	ePKPd	31	13.70	0.8		CALN	124.22	322	PKP	31	21.44	-0.4
	Z 19s	1.28um				5.5Msz		CSI	119.81	314	PKP	31	13.60	0.3		SSF	124.26	327	iPKPd	31	21.20	-0.4
DAG	106.25	356	ePKP	30	45.00	-1.4		TDS	119.82	314	PKP	31	13.40	0.1			1.1s	82.80nm				
PV10	106.56	51	PKP	30	49.10	0.6		GRI	120.07	313	PKP	31	14.30	0.5		BCAO	124.31	273	iPkPc	31	22.30	-0.4
NUR	106.71	333	ePdiff	26	37.00	-0 1		OGA	120.11	324	iPKPc	31	13.90	0.0			0.9s	41.00nm				
PV08	106.84	51	PKP	30	49.40	0 3		CTI	120.14	323	PKP	31	13.80	-0.1				ic	31	32.80		
GOL	109.15	49	PKP	30	53.90	0.6		MGR	120.19	315	PKP	31	13.00	-1.0				ic	31	40.90		
	Z 19s	2.23um				5.7Msz		SGO	120.20	316	PKP	31	13.20	-0.7				ic	32	28.80		
RSSD	109.15	44	PKP	30	50.00	-3.1X		DUI	120.33	317	PKP	31	14.20	-0.1		SMF	124.33	327	iPKPd	31	21.10	-0.7
	Z 20s	1.09um				5.4Msz		ARV	120.54	319	PKPd	31	14.20	-0.4			1.1s	80.10nm				
GLD	109.25	49	PKP	31	00.00	6.6X		SOI	120.61	313	PKP	31	14.70	-0.1		DLF	124.45	338	ePKP	31	22.20	0.5
	Z 20s	2.62um				5.8Msz		RSM	120.66	320	PKP	31	16.40	1.7			1.0s	139.00nm				
FCC	109.83	28	ePKP	30	59.50	5 9X		SLM	120.70	47	PKP	31	20.00	5.0X		FRF	124.48	322	iPKPd	31	21.40	-0.7
APO	111.36	336	ePdiff	26	56.90	-1.0			Z 19s	1.02um				5.5Msz			1.0s	71.00nm				
	0.5s	0.50nm						GMB	120.72	313	PKP	31	15.20	0.0		AVF	124.51	327	iPKPd	31	21.20	-0.8
APO	111.36	336	ePKP	30	54.30	-2.2		OSS	120.72	324	iPKPd	31	14.60	-0.4			0.9s	24.55nm				
	0.6s	8.90nm						ENN	120.73	330	iPKPd	31	15.60	1.0		HYF	124.59	328	iPKPd	31	22.20	0.0
NB2	112.17	337	PKP	30	57.60	-0.4			1.0s	49.00nm						ELF	124.63	38	PKP	31	22.50	0.1
	0.6s	2.20nm						AQU	120.75	318	PKP	31	15.20	0.2		DLA	124.65	39	PKP	31	22.50	0.1
ULM	112.51	36	ePKP	31	01.50	2 6X		SDI	120.75	317	PKP	31	14.20	-0.9		DCN	124.68	339	ePKP	31	23.00	0.9
OJC	113.39	324	ePKP	31	01.00	0.3		LANF	120.79	327	PKP	31	14 94	0.1		LMR	124.68	322	iPKPd	31	21.80	-0.7
SPC	113.54	323	ePKP	31	03.60	2 3X		SRBF	120.81	327	PKP	31	14.74	-0.1			1.0s	49.40nm				
VAY	114.79	314	iPKP	30	58.00	-5.7X		RFI	120.81	317	PKP	31	16 50	1.4		LRG	124.71	322	iPKPd	31	22.00	-0.5
BUD	114 97	321	ePKP	31	03.40	-0.4		FVM	120.81	47	PKP	31	20.00	4.8X			0.9s	71.40nm				
KSP	115.14	326	ePKPc	31	04.00	0.0			Z 20s	3.37um				6.0Msz		SSB	124.75	325	PKP	31	22.60	0.0
		i	31	05.70				ASS	120.92	319	PKP	31	13.70	-1.7		LDN	124.79	38	PKP	31	22.60	-0.1
		e	31	16.00				JAQ	121.00	25	ePKP	31	14.00	-1.1		BGF	124.92	327	iPKPd	31	22.50	-0.4
SKO	115.38	315	iPKPc	31	04.00	-0.8		ATN	121.01	313	PKP	31	14.30	-1.3			1.1s	107.45nm				
ZST	115.85	323	e(PKP)	31	04.90	-0.6		SFI	121.04	320	PKP	31	15.90	0.5		COLF	125.09	326	PKP	31	23.97	0.7
FRB	115.88	15	ePKP	31	05.00	0.0		SLE	121.09	326	ePKPd	31	15.50	0 0		LDF	125.14	331	iPKPd	31	22.50	-0.7
	0.9s	9 00nm						CRE	121.12	320	PKP	31	15.90	0.1			1.2s	60.40nm				
OHR	116.12	314	iPKP	31	05.00	-1.3		PGD	121.15	320	PKP	31	16.10	0.2		ACTO	125.16	37	PKP	31	23.72	0.3
BRG	116.43	327	iPKP	31	06.00	-0.5		MNS	121.21	318	PKP	31	14.90	-1.0		FLN	125.20	331	iPKPd	31	22.70	-0.6
	1.0s	32.00nm						VDL	121.22	324	ePKPd	31	16.70	0.7			1.1s	65.95nm				
		e	31	18.20				WLF	121.28	328	iPKPd	31	17.15	1.5		MAF	125.29	327	iPKPd	31	23.20	-0.4
PRU	116.53	325	iPKP	31	08.00	1 3			1.5s	36.60nm							1.0s	36.20nm				
	Z 21s	1.80um				5.7Msz		LLS	121.29	325	iPKPc	31	15.80	-0.3		TCF	125.44	327	iPKPd	31	23.50	-0.4
	N 21s	1.20um						FEL	121.30	326	PKP	31	15.42	-0.6			0.8s	81.40nm				
	E 20s	1.10um						ZLA	121.31	325	ePKPc	31	16.70	0.8		TYNO	125.57	38	PKP	31	24.27	0.0
		e	31	18.10				CDF	121.41	327	PKP	31	15.61	-0.5		GRR	125.63	331	iPKPd	31	23.80	-0.4
		e	32	08.00				FIR	121.49	320	ePKP	31	16.50	0.2			1.3s	112.65nm				
PRU	116.53	325	PKP	31	06.30	-0.4		UCC	121.49	330	PKP	31	19.00	2.9X		LSF	125.83	328	iPKPd	31	23.90	-0.8
CLL	116.72	327	iPKPc	31	06.90	-0.1		EKA	121 62	338	PKPd	31	16.90	0.7			1.1s	64.45nm				
	1.1s	37.00nm							1.2s	37.00nm						LPF	125.97	331	iPKPd	31	24.50	-0.4
		e	32	15.00				SNF	121.71	330	iPKPd	31	17.57	1.1			1.2s	193.40nm				
KHC	117.49	325	PKP	31	08.50	-0.1		BDI	121.77	321	PKP	31	14.80	-2.2X		WLVO	125.97	36	PKP	31	25.20	0.2
	1.0s	17.50nm						TMA	121.77	324	iPKPc	31	16.50	-0.5		GBTN	126.30	48	PKP	31	25.30	-0.7
	Z 20s	1.90um				5.7Msz		DOU	121.81	330	PKP	31	18.20	1.5		CAF	126.37	326	iPKPd	31	25.70	-0.1
	N 20s	1.10um						BBS	121.82	326	PKP	31	16.12	-0.8			1.1s	68.35nm				
	E 20s	1.10um						ELC	121.95	48	PKP	31	16.10	-1.3		RJF	126.43	327	iPKPd	31	25.50	-0.4
		e	31	19.50				PII	121.98	321	PKP	31	16.30	-0.9			1.1s	50.05nm				
		e	32	27.50				BSF	122.01	326	PKP	31	16.98	-0.4		MFF	126.48	329	iPKPd	31	25.30	-0.6
PTJ	117.55	321	iPKP	31	08.50	-0.4		BOB	122.13	322	PKP	31	17.30	-0.3			1.1s	64.95nm				
GEC2	117.56	325	Pdiff	27	27.00	1.1		HAU	122.15	327	iPKPd	31	16.70	-0.8		GAC	126.52	33	ePKP	31	27.00	1.0
	1.5s	2.37nm							1.1s	117.20nm						TKL	126.63	47	PKP	31	25.40	-1.2
		e	27	39.10				VITF	122.22	327	PKP	31	17.46	-0.1		LPO	127.00	326	iPKPd	31	26.90	-0.1
GEC2	117.56	325	PKP	31	08.40	-0 4		LOMF	122.26	326	PKP	31	17.48	-0.3			1.1s	107.45nm				
	0.8s	21.15nm						MMK	122.34	324	ePKPc	31	18.40	0.2		LFF	127.09	327	iPKPd	31	27.00	-0.1
		e	31	10.50				DIX	122.64	324	ePKPd	31	19.40	0.6			1.1s	75.95nm				
		e	31	20.30				PCP	122.80	322	PKP	31	17.91	-1.0		MTHF	127.30	324	PKP	31	27.79	0.1
MOX	117.82	327	ePKP	31	09.20	0.1		CKI	123.02	322	PKP	31	18.20	-1.0		LSPF	127.67	324	PKP	31	28.51	0.2
	1.3s	29.00nm						LSD	123.13	324	PKP	31	19.60	-0.2		RSNY	127.78	33	PKP	31	27.70	-0.8
	Z 20s	1.40um				5.6Msz		FIN	123.18	322	PKP	31	18.55	-1.0			Z 20s	1.61um			*	5.7Msz
		e	31	18.20				RSP	123.24	324	PKP	31	18.92	-0.9		NAV	128.00	44	PKP	31	28.40	-0.8
		e	32	22.00				ROB	123.34	322	PKP	31	18.87	-1.1		PRM	128.35	49	PKP	31	29.50	-0.4
VBY	118.16	321	ePKP	31	10.00	0.1		LPG	123.35	324	iPKPd	31	19.70	-0.5		EPF	128.52	325	iPKPd	31	29.50	-0.5
LJU	118.38	322	ePKP	31	10.50	0 1			0.7s	25.45nm							1.2s	33.05nm				
GRF	118.53	326	ePKP	31	10.00	-0.6		LPL	123.35	324	iPKPd	31	19.50	-0.6		ESEL	128.91	320	iPKPc	31	31.68	0.9
	Z 20s	1.80um				5.7Msz			0.7s	31.00nm						JSC	129.09	48	PKP	31	30.50	-0.7

30d 14h

CBM	129.32	27	PKP	31	40.00	8.7X
	Z 21s	2.05um			5.8Msz	
EGRA	129.42	325	iPKPd	31	32.11	0.5
CBN	129.85	41	ePKP	31	32.00	-0.6
SGS	130.13	49	PKP	31	32.70	-0.5
HBF	130.35	49	PKP	31	33.20	-0.5
PAL	130.38	36	PKP	31	33.30	-0.2
ECRI	130.39	326	iPKPc	31	34.58	1.0
HRV	130.75	33	PKP	31	40.00	5.9X
	Z 20s	1.73um			5.8Msz	
ETOR	131.30	324	ePKP	31	36.54	1.1
ECHE	131.43	322	ePKP	31	36.29	0.7
GUD	132.62	326	iPKP	31	38.97	1.0
EVIA	132.95	322	ePKP	31	40.23	1.6X
ERUA	133.00	329	ePKP	31	41.41	2.9X
STS	133.33	331	ePKP	31	42.06	3.0X
EHUE	133.52	322	iPKPc	31	41.39	1.7X
EBAN	134.03	323	iPKPc	31	42.12	1.5X
EPLA	134.09	326	iPKPc	31	41.75	1.1
ECOG	134.46	322	ePKP	31	40.98	-0.6
ELUQ	134.71	322	iPKPc	31	42.97	1.0
EGUA	134.74	321	ePKP	31	41.76	-0.2
EHOR	135.13	323	ePKP	31	44.09	1.5X
EPRU	135.68	323	ePKP	31	45.66	1.9X
EJIF	136.16	322	ePKP	31	44.73	0.1
EVAL	136.17	324	iPKPd	31	45.82	1.2
TCA	136.55	145	e(PKP)	31	33.00	-12.6X
NNA	137.72	112	ePKP	31	49.00	0.7
	1.1s	25.32nm				
AVE	139.42	320	iPKP	31	53.00	2.2X
			i	32	11.00	
ARE	140.73	122	ePKP	31	48.00	-6.0X
TIO	140.80	317	ePKP	31	48.50	-5.0X
			i	31	53.00	
			i	32	15.00	
MOCB	142.79	133	PKP	31	52.50	-5.2X
LPB	143.53	124	PKP	31	57.00	-2.0
	1.0s	64.00nm				
ZOBO	143.65	124	PKP	31	54.90	-4.5X
	1.0s	57.50nm				
	Z 20s	0.37um			5.1Msz	
		LR		08	04.00	
CCH	144.68	127	PKP	32	01.60	0.8
SDV	146.48	80	ePKPd	32	02.90	-0.9
TOV	147.18	78	ePKPc	32	06.30	1.6X
			iPP	32	07.80	
KIC	147.46	276	PKP	32	06.00	0.9
	1.1s	625.00nm				
MGP	147.54	62	(PKP)	32	03.00	-2.1X
TIC	147.72	277	PKP	32	06.60	1.1
LIC	147.76	276	PKP	32	06.80	1.2
	Z 20s	1.10um			5.6Msz	
PORP	147.92	61	PKP	32	05.00	-0.7
CLLP	147.96	61	PKP	32	05.00	-0.7
CPD	148.55	61	PKP	32	06.00	-0.7
TBT	149.05	325	(PKP)	32	06.67	-0.6
SIV	149.42	130	PKP	32	07.80	-0.4
RSTA	149.62	159	ePKP	32	12.30	4.1X
			e	32	24.90	
OLLA	150.05	76	iPKPc	32	09.00	-0.2
PPD	151.01	152	ePKP	32	11.80	1.4
			e	32	16.40	
GUAN	151.18	76	iPKPc	32	11.30	0.3
NEV	151.83	60	ePKP	32	11.76	0.1
			e	32	17.15	
MGH	152.31	60	ePKP	32	13.00	0.6
PPA	152.48	59	ePKP	32	11.63	-1.0
			e	32	18.38	
			e	32	19.99	
PAG	153.07	61	ePKP	32	13.90	0.4
KDS	153.67	291	ePKP	32	14.80	0.5
	S.D. = 0.8	on 323 of 382 obs.				

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* MAY 30, 1993 14h 35m 31.03± 1.00s
38.464 N ± 8.9km 23.060 E ±10.4km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 2.9 (ATH).

ATH	0.71	133	ePb	35	45.00	-0.1
AGG	0.80	315	ePg	35	46.60	0.1
			eSg	36	02.70	
PAIG	1.54	18	ePb	35	58.50	0.0
LIT	1.69	345	ePn	36	01.08	0.3
			eSn	36	29.10	
OUR	2.00	21	ePn	36	06.24	1.1
SOH	2.37	5	ePn	36	10.32	-0.2
FNA	2.66	331	ePn	36	15.15	0.5
SRS	2.68	9	ePn	36	14.48	-0.5
VAY	2.88	353	ePn	36	16.70	-1.0
OHR	3.17	327	ePn	36	17.20	-4.7X
SKO	3.72	341	ePn	36	27.00	-2.7X
	S.D. = 0.7	on 9 of 11 obs.				

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* MAY 30, 1993 14h 44m 18.64± 0.40s
17.600 S ±15.3km 173.326 W ±10.4km
DEPTH = 33.0km (normol)
5.0mb (25 obs.) 5.5Msz (2 obs.)
TONGA ISLANDS (173)
Mw 5.4 (HRV).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 22C
Centroid Location:
Origin Time 14:44:21.7 3.0
Lat 17.97S 0.13 Lon 173.15W 0.23
Dep 16.7 7.2 Half-duration 1.3
Moment Tensor; Scale 10**17 Nm
Mrr= 0.59 0.09 Mtt=-0.07 0.12
Mff=-0.52 0.10 Mrt= 0.35 0.28
Mrf= 1.29 0.54 Mtf=-0.16 0.07
Principal Axes:
T Val= 1.47 Plg=57 Azm=284
N -0.02 1 15
P -1.45 33 106
Best Double Couple:Mo=1.5*10**17
NP1:Strike=199 Dip=12 Slip= 94
NP2: 15 78 89

DZM	19.54	254	iPc	48	45.40	-1.3
OLP	40.18	250	eP	51	53.20	-0.4
TOO	41.16	233	iPd	52	01.70	0.0
	0.7s	12.00nm			4.7mb	
WB2	49.43	259	eP	53	04.30	-3.5X
	0.8s	6.70nm			4.7mb	
			iPP	54	30.60	
WRA	49.44	259	P	53	06.10	-1.8
	0.8s	5.70nm			4.7mb	
ASPA	49.53	254	iPc	53	06.50	-2.1
	0.9s	46.10nm			5.5mb	
BCH	72.83	43	eP	55	47.10	0.8
ARN	73.23	41	eP	55	49.01	0.5
PLM	73.94	47	eP	55	52.63	-0.3
PEC	74.04	46	(P)	55	52.43	-0.8
	1.0s	11.30nm			4.8mb	
ISA	74.18	44	eP	55	54.30	0.3
	1.4s	24.82nm			5.0mb	
CMB	74.37	41	eP	55	54.62	-0.5
	1.0s	12.27nm			4.9mb	
GSC	75.08	45	eP	55	59.81	0.5
GLA	75.20	48	eP	55	58.60	-1.4
YSS	75.48	331	eP	56	02.50	1.3
BONR	75.63	42	eP	56	03.03	0.3
TNP	76.40	42	eP	56	05.89	-1.0
	1.0s	19.38nm			5.1mb	
KVN	76.41	41	eP	56	06.57	-0.3
KDC	77.04	11	eP	56	08.85	-0.8
	1.2s	18.35nm			5.0mb	
LEM	77.57	267	ePc	56	15.50	1.7
TUC	77.73	50	eP	56	13.38	-0.8
	1.0s	11.24nm			4.9mb	
BMW	78.13	33	eP	56	15.89	-0.2
ARUT	78.71	44	(P)	56	20.53	0.9
GMW	79.07	32	eP	56	21.67	0.5
SVW	79.71	9	eP	56	23.35	-1.0
	1.0s	11.71nm			4.8mb	
MSU	79.94	44	eP	56	26.23	-0.1
SLKM	80.04	11	ePc	56	25.28	-0.9
CP2	80.39	10	eP	56	27.07	-1.1
CRP	80.41	10	eP	56	27.27	-1.0
PWA	81.16	11	eP	56	36.70	4.7X
PMR	81.25	11	eP	56	32.60	0.2
	1.1s	21.93nm			5.1mb	
HVU	81.30	41	(P)	56	33.35	0.0
SRU	81.35	44	eP	56	34.45	0.7
TTA	81.41	8	eP	56	33.82	0.5
	1.2s	10.50nm			4.7mb	
DAU	81.54	43	eP	56	34.81	-0.1
DPW	81.66	34	eP	56	34.04	-0.9
PV09	81.98	46	eP	56	37.46	0.3
PV10	81.98	46	eP	56	36.02	-1.1
ALQ	82.16	50	eP	56	38.67	0.7
	1.0s	6.27nm			4.6mb	
BALM	82.21	15	eP	56	37.22	-0.4
PV08	82.35	46	eP	56	38.69	-0.4
MGD	82.70	343	eP	56	50.00	10.0X
LRM	83.70	38	eP	56	44.80	-1.0
BW06	83.86	42	eP	56	45.70	-0.9
	1.3s	17.09nm			5.0mb	
FBA	84.53	11	ePc	56	48.62	-0.6
	0.9s	21.85nm			5.3mb	
IMA	84.72	8	eP	56	50.40	0.1
	1.2s	7.89nm			4.8mb	
GOL	85.12	46	eP	56	52.89	-0.2
	1.1s	12.30nm			5.0mb	
GLD	85.25	46	(P)	56	54.37	0.8
	1.0s	22.52nm			5.3mb	
ILT	85.35	358	iPc	56	54.00	0.9
	1.2s	16.00nm			5.1mb	
BJI	87.03	314	eP	57	04.50	2.4X
	1.7s	81.00nm			5.7mb	
IPM	87.23	276	ePd	57	06.00	2.3X
	1.4s	73.80nm			5.7mb	
RSSD	88.03	42	eP	57	05.77	-1.3
	1.1s	8.11nm			4.9mb	
INK	90.38	14	eP	57	19.00	1.6
YKA	92.08	23	eP	57	25.40	0.1
	1.2s	4.90nm			4.8mb	
LZH	94.58	306	eP	57	39.00	1.4
	1.5s	22.00nm			5.4mb	
			sP	57	49.00	
SVE	124.03	328	ePKPd	03	16.00	1.1
ARU	125.23	328	ePKP	03	17.00	-0.2
MAIO	130.00	303	ePKP	03	28.00	0.9
NAI	144.89	241	iPKPc	03	56.50	1.3
	1.0s	1574.00nm				
WTS	145.68	360	ePKP	03	56.00	0.9
	1.0s	30.80nm				
OJC	145.79	345	ePKP	03	56.80	1.4
KSP	145.95	349	iPKPc	03	57.00	1.3
	1.2s	77.00nm				
			i	04	07.00	
CLL	145.99	353	iPKPc	03	56.80	1.1
	1.3s	87.00nm				
BRG	146.30	352	iPKPc	03	57.90	1.7X
	1.3s	44.00nm				
	Z 18s	1.50um			5.8Msz	
	N 18s	1.50um				
	E 18s	1.00um				
			e	04	03.90	
SPC	146.63	344	ePKP	04	00.00	3.0X
MOX	146.80	354	ePKP	03	59.50	2.5X
	1.7s	35.00nm				
	Z 19s	0.40um			5.2Msz	
			e	04	10.10	
			e	04	22.80	
ENN	146.91	1	ePKP	04	00.50	3.4X
	1.1s	35.50nm				
PRU	147.08	351	PKPc	04	00.10	2.6X
			i	04	11.10	
SNF	147.11	3	PKP	04	01.00	3.5X
DOU	147.54	2	PKPc	04	03.20	5.0X
GRF	147.78	354	iPKPc	04	02.60	4.0X
MLR	147.88	334	ePKP	04	00.50	1.4X
WLF	148.01	1	iPKPd	04	03.64	4.7X
KHC	148.05	351	PKP	04	03.40	4.3X
	1.3s	12.00nm				
			e	04	22.00	
			e	04	50.50	
GEC2	148.32	351	PKP	04	00.60	1.0
	1.0s	5.35nm				
			e	04	03.90	
			e	04	07.40	
			e	04	10.70	
			e	04	17.80	
			e	04	22.40	
			e	09	00.70	
			e	26	19.40	
ZST	148.32	347	ePKP	04	03.80	4.3X
FLN	148.38	9	iPKPc	04	03.10	3.5X
	1.3s	41.90nm				
SRO	148.39	345	ePKP	04	04.20	4.6X
			e	04	20.30	
BUD	148.52	344	e(PKP)	04	04.00	4.2X
LDF	148.59	9	iPKPc	04	03.50	3.5X
	1.0s	19.00nm				
GRR	148.68	10	ePKP	04	03.10	3.0X
	1.0s	14.40nm				
CDF	149.26	359	iPKPc	04	06.00	4.9X
	1.1s	14.15nm				
HRI	149.60	306	ePKP	04	08.20	6.1X

HAU	149.67	0	iPKPc	04	06.90	5.2X
	1.0s	17.60nm				
BSF	149.85	360	iPKPc	04	07.20	5.1X
	1.2s	20.55nm				
LOR	150.32	4	iPKPc	04	08.40	5.7X
	1.2s	21.70nm				
SSF	150.50	4	iPKPc	04	08.90	6.0X
	1.2s	38.40nm				
DSI	150.53	304	ePKP	04	09.90	6.5X
LBF	150.61	4	iPKPc	04	09.00	5.9X
	1.2s	13.10nm				
CSS	150.64	311	ePKP	04	10.00	6.5X
PTJ	150.74	347	ePKP	04	03.40	0.0
AVF	150.76	5	iPKPc	04	09.00	5.7X
	1.5s	36.05nm				
LJU	150.89	349	ePKP	04	09.50	6.0X
SMF	150.94	4	ePKP	04	09.50	5.9X
	1.2s	11.30nm				
VOY	151.02	350	e(PKP)	04	04.50	0.7
LSF	151.11	7	iPKPc	04	09.60	5.7X
	1.1s	14.40nm				
TCF	151.15	6	iPKPc	04	10.00	6.0X
	1.0s	5.40nm				
CEY	151.21	349	e(PKP)	04	10.00	5.9X
MAF	151.26	6	ePKP	04	10.50	6.4X
	1.3s	26.35nm				
VBY	151.27	347	e(PKP)	04	10.50	6.4X
MBH	151.55	300	ePKP	04	12.20	7.1X
LPG	152.18	360	ePKP	04	19.50	13.6X
SKO	152.62	336	ePKP	04	22.00	15.8X
FIR	153.62	353	ePKP	04	15.00	7.5X
BCAO	162.50	223	ePKPc	04	18.20	-0.7
	0.6s	11.00nm				
			id	05	06.50	

S.D. = 0.9 on 62 of 105 obs.

MAY 30, 1993 15h 00m 07.03± 0.38s
39.238 N ± 3 7km 29.102 E ± 4.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 3.4 (ISK).

DST	0.52	315	ePg	00	17.50	-0.1
ALT	0.81	103	ePg	00	22.30	-0.4
			iSg	00	32.80	
KHL	0.97	160	iPg	00	25.40	-0.1
			iSg	00	37.90	
KCT	1.16	331	iPn	00	28.80	0.1
YLV	1.34	9	iPn	00	31.80	0.0
GPA	1.40	41	ePn	00	32.10	-0.6
EDC	1.46	320	iPn	00	34.00	0.6
EYL	1.56	31	ePn	00	35.30	0.4
GBZT	1.57	10	ePg	00	13.60	-21.4X
HRT	1.64	15	ePn	00	36.30	0.3
CIN	1.82	206	eP	00	42.00	3.4X
ISK	1.83	359	ePn	00	39.00	0.3
ITU	1.87	358	eP	00	43.00	3.7X
CTT	1.98	345	ePn	00	41.30	0.4
EZN	2.23	286	ePn	00	45.00	0.5
ELL	2.57	165	ePn	00	50.00	0.5
KDZ	3.70	312	iPc	01	05.00	-0.5
JMB	3.75	330	iP	01	06.00	-0.1
RZN	4.14	308	iPc	01	11.00	-0.9
KAS	4.15	58	eP	01	26.00	14.1X
PLD	4.40	312	iP	01	15.00	-0.4

S.D. = 0.5 on 17 of 21 obs.

MAY 30, 1993 15h 01m 42.89± 0.57s
39.238 N ± 5 2km 29.175 E ± 5.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 3.3 (ISK).

DST	0.56	311	ePg	01	53.20	-1.1
ALT	0.75	104	ePg	01	57.00	-0.6
			eSg	02	07.30	
KHL	0.95	163	iPg	02	01.70	0.6
			eSg	02	14.20	
KCT	1.19	328	iPn	02	04.70	-0.4
YLV	1.34	6	ePn	02	07.80	0.2
GPA	1.37	39	ePn	02	07.10	-0.9
EDC	1.50	318	ePn	02	10.00	0.2
EYL	1.53	29	ePn	02	10.30	0.0
GBZT	1 56	8	ePg	01	58.40	-12.3X
			iSg	02	09.50	
HRT	1.63	13	ePn	02	12.30	0.6
ISK	1.83	357	ePn	02	15.30	0.7
ITU	1.87	356	ePn	02	18.00	2.8X
			iSg	02	41.00	
CTT	1.99	344	ePn	02	17.30	0.4
EZN	2.28	286	ePn	02	21.00	-0.1
DMK	2.80	338	ePn	02	29.00	0.5

S.D. = 0.7 on 13 of 15 obs.

MAY 30, 1993 15h 21m 02.70± 0.25s
36.648 N ± 3.1km 116.148 W ± 2.5km
DEPTH = 5.0km (geophysicist)
CALIFORNIA-NEVADA BORDER REGION (40)
ML 4.0 (GS), 4.4 (BRK).

GSC	1.44	202	ePd	21	30.29	0.6
			eS	21	50.33	
TNP	1.67	330	ePc	21	32.19	-0.7
ISA	2.12	243	ePn	21	39.49	0.1
			ePg	21	43.65	
			eS	22	09.61	
MRCM	2.14	299	ePn	21	39.64	-0.2
			eS	22	11.00	
BONR	2.16	308	ePc	21	39.68	-0.4
ARUT	2.44	61	ePn	21	43.06	-1.0
			eS	22	18.47	
MEMM	2.45	295	ePn	21	44.28	0.3
MMPM	2.49	294	ePnc	21	44.62	-0.3
			eS	22	21.33	
SSK	2.74	208	ePn	21	48.49	0.2
			eS	22	33.11	
KVN	2.85	328	ePn	21	49.95	0.0
			eS	22	26.82	
PEC	2.87	197	ePn	21	50.68	0.6
			eS	22	35.00	
ABL	3.08	235	ePn	21	52.82	-0.2
			ePg	22	01.42	
PKEM	3.25	261	ePn	21	54.77	-0.6
PLM	3.34	190	ePn	21	56.28	-0.5
			eLg	22	52.15	
BCH	3.51	247	(Pn)	21	58.96	-0.2
PHAM	3.53	258	ePn	21	58.66	-0.7
CMB	3.65	294	ePd	22	01.36	0.3
			eS	22	58.22	
MSU	3.66	58	ePn	22	00.50	-1.0
			ePg	22	10.94	
GLA	3.75	163	ePnc	22	02.14	-0.4
			ePg	22	15.40	
SAO	4.26	273	ePnc	22	09.03	-0.6
			eS	23	20.44	
ARN	4.37	281	ePn	22	12.17	0.9
			eS	23	17.70	
MHC	4.45	281	eP	22	19.26	6.7X
			iS	23	22.24	
COE	4.47	279	ePn	22	13.10	0.5
			eS	23	21.96	
HMR	4.75	290	(Pn)	22	18.81	2.2
			ePg	22	29.77	
SRU	5.08	59	ePn	22	21.82	0.3
			ePg	22	36.78	
			eS	23	42.07	
ORV	5.12	306	(Pn)	22	20.35	-1.6
			eS	23	42.23	
EMUT	5.25	51	ePn	22	24.76	0.7
			ePg	22	39.97	
DAU	5.37	44	ePn	22	26.16	0.4
			ePg	22	42.87	
			eS	23	54.68	
HVU	5.75	26	ePn	22	31.32	0.3
			ePg	22	47.92	
			eS	24	02.49	
PV09	5.87	70	ePn	22	32.78	0.0
PV10	5.91	71	ePn	22	32.94	-0.3
			ePg	22	49.74	
			eS	24	07.73	
TUC	6.19	133	ePnd	22	36.94	-0.1
			eSg	24	18.45	
PV08	6.26	70	ePnc	22	39.15	0.8
			ePg	22	55.81	
YKA	25.89	2	eP	26	37.50	0.7
	0.7s	0.50nm			3.3mb	

S.D. = 0.7 on 33 of 34 obs.

• MAY 30, 1993 15h 35m 21.50± 1.33s
42.731 N ± 5.9km 17.145 E ±15.4km
DEPTH = 10.0km (geophysicist)
ADRIATIC SEA (382)

HVAR	0.68	311	iPgd	35	36.10	1.1
			iSg	35	45.10	
8AI	1.62	187	P	35	55.00	4.8X
BRT	1.85	179	P	35	52.50	-1.1
			(Sn)	36	13.80	
DUI	2.26	243	P	36	01.30	1.7
LCI	2.47	166	P	36	10.20	7.8X
SGO	2.57	213	P	36	06.20	2.4
SDI	2.68	249	P	36	05.10	-0.4
MGR	2.85	205	P	36	06.80	-1.1
V8Y	3.09	335	ePn	36	12.50	1.3
			eSn	36	49.00	
ARV	3.17	285	P	36	11.80	-0.6
			(Sn)	36	44.30	
PTJ	3.28	345	e(Pn)	36	14.50	0.5
			eSn	36	52.60	
MNS	3.32	266	P	36	13.60	-0.9
CEY	3.59	328	ePn	36	19.50	1.2
			eSn	37	00.40	
LJU	3.80	331	e(Pn)	36	22.00	0.6
			eSn	37	04.50	
VOY	4.04	326	ePn	36	24.70	-0.1
			e	36	36.00	
			e	36	44.70	
			eSn	37	09.30	
R8L	4.50	327	P	36	29.80	-1.5
VVI	4.69	315	P	36	32.80	-1.3
CTI	5.15	312	P	36	38.70	-1.8

S.D. = 1.4 on 16 of 18 obs.

MAY 30, 1993 15h 42m 29.64± 0.34s
39.296 N ± 3.2km 29.130 E ± 3.7km
DEPTH = 16.9 ± 3.5 km
3.9mb (1 obs.)
TURKEY (366)
MD 4.1 (ATH), ML 4.0 (ISK). Felt at Kutahya.

DST	0.50	309	iPg	42	39.50	-0.1
ALT	0.80	107	iPg	42	43.80	-1.0
			eSg	42	54.00	
KHL	1.02	162	iPg	42	48.20	-0.3
KCT	1.12	328	iPn	42	51.30	1.1
YLV	1.28	8	iPn	42	53.30	0.5
GPA	1.34	42	iPn	42	53.60	0.0
BNT	1.41	319	iPn	42	52.60	-1.9
EDC	1.43	317	iPn	42	55.00	0.2
EYL	1.49	32	ePn	42	56.30	0.5
HRT	1.58	15	ePn	42	57.30	0.3
ISK	1.77	358	ePn	43	00.30	0.6
ITU	1.81	357	ePn	43	02.00	1.7
			iSg	43	28.00	
CIN	1.88	206	eP	43	02.00	0.7
CTT	1.92	344	iPn	43	02.60	0.6
BCK	2.16	148	ePn	43	05.00	-0.5
PRK	2.22	270	iPnd	43	09.80	3.6X
EZN	2.23	285	iPn	43	07.30	0.9
ELL	2.62	166	iPn	43	12.10	0.1
DMK	2.73	338	iPn	43	14.10	0.6
ALN	2.86	305	eP	43	15.72	0.5
KSL	3.19	173	ePn	43	20.50	0.5
RDO	3.31	305	iPnc	43	23.00	1.2
KDZ	3.68	311	iPc	43	27.00	0.0
JMB	3.71	329	iPc	43	28.00	0.6
OUR	4.10	286	eP	43	34.76	1.9
KAS	4.11	58	eP	43	45.00	11.9X
RZN	4.13	307	iPd	43	33.00	-0.5
PAIG	4.26	280	eP	43	39.08	3.9X
PLD	4.38	311	iPd	43	36.00	-0.9
PSN	4.44	351	iP	43	37.00	-0.7
SRS	4.61	295	iP	43	40.26	0.0
SOH	4.69	291	iP	43	45.40	4.0X
MMB	4.72	301	eP	43	40.00	-1.8
PVL	4.85	325	iPc	43	43.00	-0.5
PGB	4.97	312	iP	43	44.00	-1.3
KNT	5.12	293	eP	43	47.72	0.3
LIT	5.18	281	eP	43	52.80	4.5X
KKB	5.27	301	iP	43	49.00	-0.6
AGG	5.29	269	eP	43	54.64	4.8X
VAY	5.41	294	iPn	43	52.60	1.1
VTS	5.56	308	iPc	43	53.00	-0.8
CFR	5.93	353	eP	43	58.00	-0.7
ISR	6.14	343	eP	44	02.00	0.2
BRD	6.40	347	eP	44	08.00	2.5X
SKO	6.43	297	ePn	44	05.00	-0.9
DRA	6.49	328	eP	44	11.00	4.3X
MLR	6.62	340	ePc	44	09.50	0.8
OHR	6.63	289	ePn	44	13.00	4.2X

30d 15h

```
MTUR     6.65 334 iPd    44 13.00    4.0X
CMP      6.69 334 ePc    44 16.00    6.4X
VRI      6.80 346 ePd    44 11.00   -0.1
PPE      7.01 351 eP     44 09.00   -4.9X
CLI      7.38 350 ePc    44 14.50   -4.6X
                  e      12 34.50
GZR      7.70 324 ePd    44 35.00   11.3X
MML      8.53 141 eP     44 28.00   -7.4X
JVI      8.92 144 eP     44 32.70   -8.0X
MZDA     9.41 146 eP     44 40.10   -7.3X
KHC     14.84 317 eP     46 05.00    4.7X
KAF     22.91 357 eP     47 36.30    2.9X
HFS     23.01 340 eP     47 33.80   -0.5
        1.9s     40.20nm          4.6mb X
MAIO    24.13  88 eP     47 47.00    1.5
NB2     24.44 339 P      47 47.60   -0.7
        0.9s      3.10nm          3.9mb
      S.D. = 0.9  on  43 of  62 obs.
-------------------------------------
?  MAY  30, 1993  15h 43m 49.43± 0.88s
   39.300 N ±11.9km   29.200 E ±11.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)

DST      0.54 305 ePg    44 00.00   -0.3
ALT      0.75 109 ePg    44 04.00   -0.2
                  eSg    44 14.00
KHL      1.01 165 iPg    44 08.70    0.1
KCT      1.15 326 ePn    44 11.30    0.4
      S.D. = 0.5  on   4 of   4 obs.
-------------------------------------
•  MAY  30, 1993  15h 52m 09.74± 3.01s
   37.110 N ±28.6km   21.130 E ±11.5km
   DEPTH =  33.0km  (normal)
 SOUTHERN GREECE                   (368)

AGG      2.13  26 eP     52 45.88    2.1
LIT      3 17  19 eP     53 02.84    4.4X
PAIG     3.45  35 eP     53 01.32   -1.1
FNA      3.67   3 eP     53 06.00    0.4
OUR      3 92  34 eP     53 05.10   -3.9X
OHR      4.00 356 ePn    53 20.70   10.3X
LCI      4 07 323 P      53 08.90   -2.3
SOH      4 09  24 eP     53 11.72    0.1
SOI      4 14 285 P      53 12.40    0.1
KNT      4.27  18 eP     53 13.84   -0.3
ROI      4.35 306 P      53 15.90    0.7
VAY      4.35  14 ePn    53 15.50    0.3
SRS      4.44  25 eP     53 15.44   -1.0
TDS      4.54 306 P      53 21.40    3.4X
ATN      4.62 285 P      53 18.60   -0.5
CSI      4.64 306 P      53 22.10    2.7X
BRT      4 85 322 P      53 22.50    0.2
SKO      4.86   3 ePn    53 19.00   -3.4X
MGR      5.31 306 P      53 29.00    0.2
SGO      5.70 309 P      53 35.20    0.9
      S.D. = 1.1  on  14 of  20 obs.
-------------------------------------
%  MAY  30, 1993  16h 19m 50.50± 0.85s
   26.361 S ± 6.4km   27.415 E ±10.1km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA          (584)
      ML 2.3 (PRE).

PRY      0.57 175 eP     20 01.00   -0.9
                  S      20 08.50
KSR      0.68 317 eP     20 04.00   -0.1
                  S      20 17.00
SLR      1.00  52 eP     20 09.90   -0.1
                  S      20 18.00
SEK      1 96 175 iPc    20 26.00    1.1
                  S      20 53.00
BLF      2.95 201 e(P)   20 39.00    0.0
      S.D. = 1.0  on   5 of   5 obs.
-------------------------------------
   MAY  30, 1993  16h 32m 27.45± 0.13s
    5.423 S ± 3.2km  150.514 E ± 3.8km
   DEPTH = 101.5km  (geophysicist)
   5.7mb ( 46 obs.)
 NEW BRITAIN REGION, P.N.G.        (192)
      Mw 5.7 (GS), 5.6 (HRV). Depth
      from broadband displacement
      seismograms.
      FAULT PLANE SOLUTION: P-Waves
       NP1:Strike= 65 Dip=55 Slip= -90
       NP2:       245     35       -90
       Principal Axes:
         T              Plg=10  Azm=155
         P                80      335
       Comment: The focal mechanism is
         poorly controlled and
         corresponds to normal
         faulting. The preferred fault
         plane is not determined.
       RADIATED ENERGY
        No. of sta:  6  Focal mech.  M
        Energy       3.4±0.5*10**12 Nm
       MOMENT TENSOR SOLUTION
       Dep 104              No. of sta: 11
       Moment Tensor;   Scale 10**17 Nm
         Mrr=-3.36        Mtt= 3.01
         Mff= 0.34        Mrt=-0.50
         Mrf=-1.18        Mtf= 1.26
        Principal axes:
         T  Val=  3.63  Plg= 8  Azm=157
         N        0.07       14       65
         P       -3.70       74      274
       Best Double Couple:Mo=3.7*10**17
        NP1:Strike=262 Dip=39 Slip= -68
        NP2:       54      54      -107
       CENTROID, MOMENT TENSOR     (HRV)
       Data Used: GDSN
       L.P.8.: 42S, 76C
       Centroid Location:
       Origin Time        16:32:32.4 0.2
       Lat  5.52S 0.03 Lon 150.72E 0.03
       Dep 109.8 1.9 Half-duration  1.5
       Moment Tensor;   Scale 10**17 Nm
         Mrr=-1.06 0.05   Mtt= 1.53 0.08
         Mff=-0.46 0.09   Mrt=-1.61 0.05
         Mrf=-1.25 0.06   Mtf= 0.33 0.08
        Principal Axes:
         T  Val=  2.55  Plg=28  Azm=161
         N       -0.16       19       61
         P       -2.39       55      302
       Best Double Couple:Mo=2.5*10**17
        NP1:Strike=290 Dip=24 Slip= -38
        NP2:        56      76      -109

RAB      2.05  53 iPd    33 04.70    3.5X
MDG      4.72 272 eP     33 42.60    5.0X
PMG      5.17 220 iP     33 46.00    2.1
                  eS     34 45.00
MNDI     6.86 264 eP     34 21.00   13.6X
SVO      9.94 112 eP     34 51.00    2.0
                  eS     36 51.00
HNR     10.17 114 eP     34 53.00    0.9
                  eS     36 48.00
CTA     15.15 195 iPd+   35 57.50    0.1
        0.7s   178.08nm          5.4mb
     Z  18s      4.12um          4.0MszX
                  i      36 15.00
                  i      36 30.00
                  iS     38 45 00
                  i      39 20.00
                  iPcS   42 37.00
                  i      44 23.50
                  i(ScS)47 38.00
                  e      48 07.00
CTAO    15.15 195 ePc    35 57.76    0.4
GUA     19.64 344 eP     36 54.00    3.3X
        1.2s  7262.50nm          6.9mb X
GUMO    19.70 344 iPd    36 54.42    3.1X
        1.2s  3138.60nm          6.5mb
                  e      37 13.10 100kmX
                  eS     40 32.10
PJG     19.70 344 eP     36 53.00    1.6
                  i      36 54.60    6kmX
MTN     20.50 248 eP     36 58.60   -0.9
        0.5s   200.00nm          5.7mb
BKM     21.18 127 iPc    37 06.50    0.1
WB2     21.34 226 iPc    37 08.10    0.1
        0.4s   272.40nm          5.9mb
                  eS     40 58.20
                  iScP   44 35.30
QLP     21.88 195 iPc    37 14.80    1.5
BRS     21.95 175 iPd    37 15.00    0.9
        1.0s    38.00nm          4.7mb X
                  iS     41 12.00
DZM     22.62 139 iPc    37 21.30    0.7
                  iS     41 19.90
                  i      44 41.90
KNA     23.68 243 eP     37 32.00    1.1
        0.4s   237.00nm          5.9mb

ASPA    24.19 220 iPd    37 36.80    1.0
        0.7s   355.10nm          5.9mb
                  eS     41 45.30
                  iScP   44 43.50
                  eScS   48 31.80
STK     27.62 197 iPd    38 06.80   -0.5
        0.5s    92.50nm          5.6mb
                  e      38 28.80   99kmX
                  e      44 55.40
                  e      48 43.10
DAV     27.82 296 eP     38 08.40   -0.9
RIV     28.27 179 iPc    38 13.00   -0.1
BWA     28.92 184 iPc    38 18.70   -0.4
                  ipP    38 23.60   17kmX
                  i      41 26.00
                  iScP   45 00.70
CTB     29.10 295 eP     38 24.00    3.2X
CNB     29.77 182 iPc    38 27.00    0.4
        0.7s   156.00nm          5.8mb
CAN     29.79 182 iPc    38 26.80    0.1
                  ipP    38 32.70   20kmX
                  iScP   45 02.90
PLP     30.29 303 ePc    38 31.00   -0.3
ADE     31.36 199 iPc    38 40.30   -0.3
TOO     32.33 187 iPd    38 49.20    0.2
        0.6s   224.00nm          6.1mb
                  eScP   45 10.40
FORT    32.89 217 iPd    38 53.70   -0.2
MBL     33.60 239 iPd    39 00.00   -0.3
        0.3s    37.00nm          5.7mb
TSM     34.00 286 ePc    39 05.20    1.5
PGP     34.86 303 iPc    39 11.80    0.8
TGY     35.18 304 iPd    39 18.00    4.2X
CVP     36.47 310 ePc    39 26.00    1.4
BAG     36.71 307 ePd-   39 27.00    0.2
        1.3s  1000.00nm          6.6mb
                  eS     45 48.00
MEEK    37.02 232 iPd    39 29.10   -0.1
KAGJ    40.95 334 iPd    40 04.70    3.1X
TATO    41.35 318 iPd    40 07.43    2.4
                  epPc   40 32.09  106kmX
                  esPc   40 39.87
SNZO    41.76 152 ePc    40 06.61   -1.6
WKYJ    41 87 341 P      40 11.90    2.6
RKG     42.43 222 iPd    40 14.20    0.4
        0.6s   108.00nm          5.8mb
KAKJ    42.53 348 P      40 15.90    1.4
LEM     42.66 266 ePc    40 18.20    2.0
SHK     43.16 338 iPd    40 21.80    2.1
        1.0s   480.00nm          6.3mb
MAJO    43.30 346 eP     40 20.78   -0.1
                  esPc   40 55.38
MAT     43.30 346 iPd    40 21.10    0.3
        1.2s   145.31nm          5.7mb
                  eS     46 40.00
SHNJ    43.40 336 iPd    40 23.60    2.0
YAMJ    44.45 348 eP     40 31.80    1.7
HKC     44.99 309 eP     40 37.10    2.6X
SSE     45.86 324 iPd    40 43.42    2.1
        1.5s   344.00nm          6.0mb
     Z  20s      0.50um          4.5Msz
                  epPc   41 08.59  107kmX
                  esPc   41 16.53
                  i      41 18.00
                  PP     42 30.30
                  S      47 44.00
                  sS     48 04.00
AOMJ    46.70 349 eP     40 49.50    1.8
QIZ     46.85 302 iPd    40 49.90    0.6
                  epPc   41 15.51  109kmX
KGM     47.72 278 ePc    40 57.00    0.8
MCO     49.41 174 eP     41 09.60    1.0
IPM     50.41 280 ePd    41 16.80   -0.1
VLA     51.18 343 iPd    41 24.00    1.8
        1.8s    26.00nm          5.0mb
                  i      42 43.00  386kmX
                  e      43 20.00
                  e      48 40.00
YSS     52.67 353 ePd    41 32.93   -0.4
                  epP    41 57.27  100kmX
                  esPc   42 06.87
ENH     52.94 315 iPd    41 36.20    0.6
                  epPc   42 02.69  111kmX
                  esPc   42 11.63
MDJ     53.24 341 ePd    41 38.89    1.3
                  epPc   42 04.38  106kmX
                  esPc   42 13.65
```

NST	54.10	294	ePd	41	45.00	0.7	TIK	78.21	353	iPd	44	16.00	-0.8	VAY	121.52	316	ePKP	51	10.00	-0.8
BJI	55.18	328	iPd	41	52.94	1.1		1.4s	88.00nm			5.4mb		ZST	121.84	325	ePKP	51	09.80	-1.4
	1.8s	813.00nm			6.4mb					e	47	19.00					e	52	49.60	
			epPc	42	19.26	109kmX				eS	54	18.00		SKO	122.04	317	iPKP	51	10.20	-1.6
			esPc	42	27.54		SVW	78.28	24	eP	44	18.00	0 4				i	51	39.00	
			eS	49	28.00		TTA	79.19	22	eP	44	22.40	-0.1	BRG	122.05	329	ePKP	51	11.20	-0.3
			eSS	50	10.00		CRP	79.78	24	P	44	23.60	-2.2X		1.2s	23.00nm				
KMI	55.47	305	ePd	41	55.44	1.0	SLKM	80.20	26	P	44	26.80	-1.1				e	51	39.00	
	1.5s	230.00nm			6.0mb		PMR	81.20	25	eP	44	32.10	-0.9	PRU	122.26	328	ePKP	51	12.60	0.6
	Z 34s	2.60um			5.1MszX			0.9s	20.40nm			5.0mb		CLL	122.27	330	ePKPc	51	11.00	-0.9
			esPc	42	30.03		IMA	81.81	20	eP	44	36.20	-0.1		1.3s	19.00nm				
			eS	50	17.00			0.8s	7.80nm			4.6mb	X	OHR	122.83	316	ePKP	51	10.70	-2.7X
XAN	55.53	318	iPd	41	54.91	0.4	KLU	82.51	26	P	44	39.60	-0 4	KHC	123.27	328	PKP	51	13.70	-0.3
			epPc	42	21.23	109kmX	COL	83.31	22	ePd	44	42.45	-1.5				e	51	46.50	
			esPc	42	29.01					epPc	45	07.94	96kmX				e	52	49.50	
CHTO	56.22	297	ePd	41	59.40	-0.3				esPc	45	20.35					e	53	26.00	
	1.2s	41.32nm			5.3mb		FBA	83.31	22	eP	44	42.40	-1.5	GEC2	123.37	327	PKP	51	13.40	-0.9
			epP	42	26.22	111kmX	FRU	83.40	314	eP	44	45.60	0.7		0.6s	7.35nm				
			esPc	42	33.66			2.0s	180.00nm			5.7mb		MOX	123.37	330	ePKP	51	14.10	0.0
OPA	57.16	60	P	42	06.30	0.0				e	48	01.00			1.6s	19.00nm				
PET	58.62	6	eP	42	15.00	-0.9	BALM	83.90	27	P	44	46.70	-0.4				e	52	56.10	
	Z 20s	0.50um			4.6Msz		MAW	84.12	203	iPd	44	48.80	0.8	GAC	123.48	37	ePKP	51	14.50	0.1
AFR	59.52	107	iPc	42	24.20	1.5		1.0s	75.00nm			5.6mb		GRF	124.16	329	iPKPc	51	15.70	0.0
	1.4s	359.00nm			6.3mb		NRI	85.68	342	iPc	44	55.30	-0.4	JSC	124.25	52	PKP	51	16.30	0.0
PPT	59.71	107	iPc	42	24.90	0.8		2.1s	85.00nm			5.4mb					pP	51	43.20	
	1.3s	127.80nm			5.9mb					e	48	21.00		VBY	124.34	323	ePKP	51	15.80	-0.4
PPN	59.85	107	iPc	42	25.80	0 8	SIT	85.99	32	P	44	57.70	0 3	LJU	124.47	324	ePKP	51	16.00	-0.4
	1.4s	130.70nm			5.9mb			1.1s	17.00nm			5.0mb					e(PP)	52	57.00	
TVO	60.04	107	iPc	42	27.80	1.4	QUE	87.15	301	eP	45	03.80	-0 1	KBA	124.58	326	iPKPd	51	16.50	-0.3
	1.2s	273.70nm			6.2mb		INK	89.85	21	eP	45	16.00	0.3		0.9s	9.40nm				
LZH	60.11	317	iPd	42	27.89	1.2		1.0s	9.00nm			4.9mb					i	53	07.10	
	1.6s	509.00nm			6.4mb		ARN	91.63	53	P	45	25.60	1.0	RSNY	124.65	38	PKP	51	16.40	-0.4
	Z 20s	0.50um			4.7Msz		MCW	91.82	41	P	45	24.20	-1 0	CEY	124.70	324	ePKP	51	16.20	-0.7
			esPc	43	04.64		BCH	92.60	55	P	45	30.70	1 5	RBL	124.81	325	PKP	51	16.10	-1.0
			sP	43	08.00		MAID	93.99	306	eP	45	35.00	-0 6	VOY	124.85	324	ePKP	51	16.00	-1.3
			ePP	44	30.00		BONR	94.23	52	P	45	37.60	0 7	WTTA	125.42	327	iPKPc	51	17.60	-0.9
HIA	60.70	337	iPd	42	31.17	0.9	SVE	94.43	327	ePd	45	35.50	-1 5		0.8s	22.40nm				
			epPc	42	57.00	104kmX		1.3s	40.00nm			5.7mb		SOTA	125.68	327	iPKPc	51	18.00	-0.9
			esPc	43	06.43		KVN	94.45	51	P	45	38.40	0 6	EKA	125.94	342	PKP	51	20.00	1.0
PMO	61 19	104	iPc	42	35.10	1.0	PEC	94.92	57	P	45	40.90	1 1		2.9s	381.20nm				
	1.5s	323.80nm			6.1mb			1.0s	16.95nm			5.4mb		CTI	126.13	325	PKP	51	18.80	-1.0
VAH	61.46	104	iPc	42	36.40	0.5	ASH	95.00	308	eP	45	43.00	3.0X	OSS	126.58	327	ePKPc	51	21.90	1.2
	1.5s	203.70nm			5.9mb		GSC	95.28	55	P	45	42.10	0 6	WIN	126.63	237	iPKPc	51	22.50	0.9
TPT	61.46	104	iPd	42	36.50	0.6	ARU	95.54	326	eP	45	40.00	-2 1X		1.0s	50.00nm				
	1.0s	95.60nm			5.8mb			1.3s	30.00nm			5.6mb		WLF	126.66	332	PKP	51	22.00	1.5
DRV	61.57	185	iP	42	36.00	0.1	NEW	95.58	42	P	45	42.20	-0.4	SLE	126.78	329	ePKPd	51	20.40	-0.5
ADK	63.57	22	P	42	49.20	-0.1		1.4s	15.33nm			5.3mb		SGO	126.80	318	PKP	51	21.50	0.4
	1.5s	92.90nm			5.5mb		GLA	96.83	57	P	45	49.60	1.1	MGR	126.84	317	PKP	51	19.40	-1.8
SHL	64.67	301	iP	42	56.50	-0.7				pP	46	18.90	111kmX	CDF	126.97	330	ePKP	51	19.40	-1.9
			eS	52	08.00		YKA	97.03	28	eP	45	47.90	-0.8		1.6s	22.40nm				
CIT	65.27	336	eP	43	02.00	1.6		0.5s	1.40nm			4.7mb		LLS	127.09	328	ePKPc	51	20.90	-0.8
MGD	65.32	0	eP	43	00.00	-0.4	ARUT	98.07	53	P	45	57.60	3.5X	SFI	127.23	323	PKP	51	22.00	0.2
			e	45	30.00		HVU	98.59	49	P	45	56.60	0.2	CRE	127.34	323	PKP	51	21.60	-0.6
			eS	52	02.00		GRM	114.47	230	ePKP	51	00.80	3.0X	SOI	127.44	315	PKP	51	21.90	-0.5
CSY	66.78	196	iPd	43	09.80	0.1		0.8s	7.46nm					MNS	127.57	321	PKP	51	21.30	-1.3
	0.5s	60.00nm			5.8mb		CLR	114.62	244	iPKPd	50	58.00	-0.4	BSF	127.60	330	ePKP	51	20.70	-1.8
			e	45	33.20	764kmX	SEK	115.61	235	iPKPc	51	00.70	0.4		1.3s	49.10nm				
ZAK	68.86	330	iPd	43	24.00	1.1		0.7s	22.00nm					TMA	127.63	327	iPKPd	51	22.30	-0.5
	1.6s	236.00nm			5.8mb		MTD	115.75	249	iPKPd	50	53.40	-7.3X	HAU	127.70	330	ePKP	51	21.00	-1.6
			e	43	50.50	105kmX				i	51	55.90			1.1s	31.50nm				
			e	52	18.00		SLR	116.00	238	iPKPd	51	00.40	-0 6	VAI	127.84	327	PKP	51	23.50	0.6
YAK	69.13	350	iPc	43	23.80	-0.6		0.6s	38.00nm					BDI	127.89	324	PKP	51	22.00	-1.2
	1.0s	242.00nm			6.0mb		PRY	116.25	237	ePKP	51	00.80	-0.7	BOB	128.14	325	PKP	51	23.00	-0.6
			e	52	24.00			0.8s	13.00nm					MMK	128.16	327	ePKPd	51	24.40	0.6
TLY	69.49	331	iPd	43	27.91	1.1	HFS	116.40	338	ePKP	50	59.30	-1.2	DIX	128.43	328	ePKPd	51	24.90	0.5
			epPc	43	53.07	98kmX		0.3s	1.50nm					LPL	129.16	328	ePKP	51	24.30	-1.4
			esPc	44	03.34			Z 17s	0.27um			4.9MszX		LPG	129.16	328	ePKP	51	24.40	-1.4
BOD	69 54	340	iPd	43	27.00	0.0				LR	34	00.00			0.8s	8.60nm				
	1.0s	48.00nm			5.3mb		BLF	116.48	234	iPKPc	51	01.50	-0 4	LOR	129.43	331	ePKP	51	24.50	-1.4
GUN	70.50	302	P	43	32.60	-1.3		0.7s	22.00nm						1.3s	25.25nm				
MOY	70 80	330	iPd	43	36.10	1.4	NB2	116.70	339	PKP	51	00.00	-1.1	LBF	129.57	331	ePKP	51	24.70	-1.5
	1.7s	200 00nm			5.7mb			0.7s	3.30nm						1.9s	50.35nm				
PKI	70.80	301	P	43	33.80	-1.9X	FRS	116.91	233	iPKPc	51	01.20	-1.2	PGF	129.73	323	ePKP	51	25.10	-1.7
KKN	70.98	302	P	43	35.20	-1.4		0.8s	20.00nm						0.5s	10.55nm				
DMN	71.07	301	P	43	36.40	-0.8	KSR	117.12	237	iPKPc	51	01.50	-1.7	SSF	129.75	331	ePKP	51	25.30	-1.2
GKN	71.58	302	P	43	39.00	-1.2		0.8s	53.00nm						1.2s	22.90nm				
SDN	72.77	27	eP	43	44.70	-1.6	JAO	118.95	29	ePKP	51	04.00	-1.6	SBF	129.83	326	ePKP	51	25.00	-1.9
HYB	74.55	290	eP	43	57.00	-0.4	SPC	119.54	325	ePKP	51	07.20	0.1		1.5s	65.30nm				
			e	44	14.00	62kmX				e(PP)	52	33.60		NNA	129.83	110	iPKP	51	27.70	0.0
WMO	74.67	318	ePd	43	58.28	0.5	CER	119.85	227	iPKPc	51	08.00	0.0		1.0s	55.00nm				
			esPc	44	34.86			0.5s	26.00nm					SMF	129.88	330	ePKP	51	25.40	-1.4
GBA	74.94	286	P	44	00.00	0.3	KSP	120.85	328	ePKP	51	09.00	-0.3		1.3s	29.95nm				
ILT	76.30	11	iPd	44	06.00	-0.4				e	52	25.80		AVF	130.01	331	ePKP	51	25.60	-1.4
	1.6s	56.00nm			5.1mb		POF	121.28	231	iPKPd	51	11.00	0.3		1.0s	6.80nm				
			eS	53	42.00			0.4s	18.00nm					LDF	130.26	335	ePKP	51	25.90	-1.5
			ePS	54	28.00		SRO	121.34	324	ePKP	51	10.10	-0.2		1.6s	81.45nm				
KDC	77.79	27	eP	44	14.20	-0.5				e	52	43.50		FLN	130.28	335	ePKP	51	25.90	-1.5

30d 16h

1.6s 97.00nm
TCA 130.42 140 ePKPd 51 28.50 0.1
FRF 130.47 326 ePKP 51 26.30 -1.7
1.6s 74.65nm
LMR 130.69 326 ePKP 51 26.80 -1.6
1.5s 49.60nm
LRG 130.69 326 ePKP 51 27.00 -1.4
1.4s 69.25nm
TCF 130.92 331 ePKP 51 27.60 -1.2
1.2s 26.50nm
RJF 131.97 331 ePKP 51 30.20 -0.6
1.0s 8.40nm
CAF 131.97 330 ePKP 51 30.00 -0.9
1.4s 23.10nm
BCAO 132.16 271 ePKPc 51 18.00 -14.1X
0.9s 41.00nm
ic 51 26.80
ic 51 31.60
id 51 58.10
LPO 132.58 330 ePKP 51 31.20 -0.8
1.1s 17.60nm
ARE 133.11 118 ePKP 51 36.00 1.9
MOCB 135.73 128 PKP 51 26.60 -12.6X
LPB 136.02 120 PKP 51 28.00 -11.8X
e 55 05.00
ZOBO 136.12 120 PKP 51 24.00 -16.2X
1.1s 59.45nm
i 51 38.60
i 55 03.10
CCH 137.30 123 PKP 51 32.00 -10.1X
i 51 44.00
e 55 07.00
GUAN 143.90 81 iPKPc 51 50.90 -2.8X
RSTA 144.56 148 ePKP 51 53.20 -1.2
e 52 18.10
PPD 145.34 143 iPKPd 51 55.80 0.0
e 52 21.30
AVE 145.49 326 iPKPc 51 56.00 0.3
i 52 18.00
MGH 146.04 68 ePKP 51 57.10 0.0
MGG 147.08 69 ePKP 52 00.90 2.2
TIO 147.14 323 iPKP 52 01.00 2.3
i 52 29.00
FDF 147.52 71 ePKP 52 02.60 3.1X
BIM 147.65 71 ePKP 52 02.55 2.8X
SVB 147.73 74 ePKP 52 01.19 1.4
SVV 147.76 74 ePKP 52 02.05 2.2
MVM 147.80 71 iPKPc 52 02.94 3.0X
SLB 147.82 73 ePKP 52 00.96 0.9
TRN 147.99 79 ePKP 52 02.76 2.5x
RIFB 149.09 146 ePKP 52 02.70 0.7
i 52 06.80
i 52 34.50
e 52 38.60
e 52 48.80
CDCB 150.43 150 ePKP 52 05.00 1.0
i 52 09.70
e 52 37.30
e 52 43.90
KIC 155.37 273 PKP 52 11.00 0.0
TIC 155.64 274 PKP 52 11.40 0.0
LIC 155.66 273 PKP 52 11.10 -0.3
KDS 161.53 294 ePKP 52 17.80 -0.2
S.D. = 1.1 on 211 of 238 obs.

? MAY 30, 1993 16h 58m 56.23± 1.22s
39.241 N ± 9.6km 29.059 E ±14.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

ALT 0.84 102 ePg 59 13.00 0.5
KHL 0.99 158 ePg 59 14.70 -0.3
eSg 59 26.70
KCT 1.14 332 ePn 59 18.20 0.6
YLV 1.35 10 ePn 59 20.20 -0.8
S.D. = 1.2 on 4 of 4 obs.

% MAY 30, 1993 17h 00m 26.83± 0.54s
39.277 N ± 5.0km 29.213 E ± 4.6km
DEPTH = 5.0km (geophysicist)
TURKEY (366)
ML 3.0 (ISK).

DST 0.56 306 ePg 00 36.90 -1.1
ALT 0.73 107 ePg 00 41.80 0.3
eSg 00 52.80
KHL 0.98 166 iPg 00 45.70 -0.3
iSg 00 58.70
KCT 1.17 326 iPn 00 50.20 1.0
YLV 1.29 5 ePn 00 50.70 -0.6
GPA 1.32 40 ePn 00 52.00 0.3
BNT 1.47 318 ePn 00 54.20 0.2
EYL 1.48 29 ePn 00 53.70 -0.5
EDC 1.49 316 ePn 00 55.00 0.7
HRT 1.58 13 ePn 00 55.20 -0.4
CTT 1.96 342 ePn 01 01.20 0.1
EZN 2.30 285 ePn 01 06.00 0.0
DMK 2.77 337 ePn 01 13.00 0.3
S.D. = 0.6 on 13 of 13 obs.

MAY 30, 1993 17h 08m 53.95± 0.11s
1.546 N ± 2.6km 127.207 E ± 3.1km
DEPTH = 80.9km (geophysicist)
6.0mb (86 obs.)
HALMAHERA, INDONESIA (267)
Mw 6.1 (GS), 6.1 (HRV). Depth from broadband displacement seismagroms.
FAULT PLANE SOLUTION: P-Woves
NP1:Strike=225 Dip=80 Slip= 90
NP2: 45 10 90
Principal Axes:
T Plg=55 Azm=135
P 35 315
Comment: The focal mechonism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
RADIATED ENERGY
No. of sta: 16 Focal mech. F
Energy 2.4±0.5*10**13 Nm
MOMENT TENSOR SOLUTION
Dep 78 No. of sta: 18
Moment Tensor; Scale 10**18 Nm
Mrr= 0.34 Mtt=-0.13
Mff=-0.22 Mrt=-1.10
Mrf=-1.04 Mtf=-0.22
Principal oxes:
T Val= 1.54 Plg=52 Azm=139
N 0.05 2 46
P -1.59 38 314
Best Double Couple.Mo=1.6*10**18
NP1:Strike= 30 Dip= 7 Slip= 73
NP2: 226 83 92
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 45S, **C
Centroid Locotion:
Origin Time 17:09: 1.4 0.1
Lot 1.56N 0.01 Lon 127.25E 0.02
Dep 112.9 1.1 Half-durotion 2.8
Moment Tensor; Scole 10**18 Nm
Mrr= 0.12 0.02 Mtt= 0.49 0.03
Mff=-0.60 0.04 Mrt=-1.04 0.02
Mrf=-1.22 0.02 Mtf=-0.10 0.03
Principal Axes:
T Vol= 1.63 Plg=45 Azm=150
N 0.13 18 41
P -1.76 39 295
Best Double Couple:Mo=1.7*10**18
NP1:Strike=320 Dip=18 Slip= 9
NP2: 222 87 108

DAV 5.74 344 ePd 10 19.80 1.4
eS 11 20.60
CTB 6.37 332 iPd 10 31.00 3.9X
iS 11 42.00
CGP 7.31 340 eP 10 40.00 0.0
eS 12 01.00
TSM 9.71 287 ePc 11 14.10 1.1
e 15 40.00
PLP 9.81 347 ePd 11 13.30 -1.0
KKM 11.84 292 ePd 11 41.30 -0.4
0.8s 609.60nm 6.5mb
e 16 09.20
PGP 13.39 333 ePc 12 03.00 0.9
TGY 13.93 334 iPd 12 14.00 4.8X
MTN 14.82 165 eP 12 19.40 -1.2
eS 15 14.00
BAG 16.15 337 eP- 12 36.00 -1.6
1.3s 615.38nm 5.6mb
eS 15 42.00
CVP 16.91 342 ePd 12 47.00 0.1
SZP 17.23 338 ePd 12 53.00 2.0
KNA 17.25 175 iPc 12 51.00 -0.2
PIP 17.88 339 iPd 12 49.00 -10.0X
MNDI 18.12 115 eP 13 06.00 3.9X
MDG 19.74 110 eP 13 20.40 0.4
GUMO 21.18 55 iPc 13 33.45 -1.2
0.8s 208.60nm 5.5mb
Z 25s 4.11um 4.7MszX
ec 13 35.69
e 13 51.10
eS 17 18.80
GUA 21.19 55 e(P) 13 33.70 -1.1
0.6s 186.67nm 5.6mb
LEM 21.25 247 ePd 13 36.50 1.0
eS 14 30.00
WB2 22.48 162 eP 13 46.70 -0.9
0.9s 658.10nm 6.0mb
eS 17 46.20
PMG 22.66 119 eP 13 51.00 1.7
MBL 23.69 197 iPd 13 59.30 0.0
0.3s 57.00nm 5.5mb
eS 18 11.00
KGM 23.88 271 iPd 14 02.40 1.2
e 18 27.00
TATO 23.94 347 iPd 14 01.37 -0.3
1.2s 1062.57nm 6.1mb
ed 14 03.93
HKC 24.22 329 eP 14 04.30 -0.1
eS 18 26.20
QIZ 24.32 317 iPd 14 05.85 0.4
MCO 24.39 328 iPc 14 06.80 0.8
RAB 25.58 103 iP 14 18.50 1.1
1.5s 555.56nm 5.8mb
iS 19 26.00
KLM 25.59 274 eP 14 18.50 1.1
ASPA 25.89 166 iPc 14 18.90 -1.3
0.8s 541.90nm 6.1mb
Z 19s 3.70um 4.9Msz
eS 18 53.10
eScS 25 03.90
IPM 26.31 277 ePd 14 23.70 -0.4
e 15 05.50
e 21 20.00
CTA 28.48 140 iPc+ 14 43.50 -0.2
1.3s 254.81nm 5.7mb
i(PP) 15 06.00
i 16 58.70
eS 19 24.00
CTAO 28.48 140 iPc 14 43.51 -0.2
epPc 14 59.24 66kmX
ec 15 05.28
KAGJ 29.69 6 P 14 53.70 -0.7
SSE 29.94 350 ePd 14 57.10 0.6
ed 14 58.67
esPc 15 24.91
NST 30.16 299 iPd 14 58.80 0.1
KUMJ 31.01 6 iPd 15 05.40 -0.6
FORT 32.15 179 eP 15 14.40 -1.6
0.3s 45.00nm 5.8mb
eS 19 40.00
OLP 32.44 151 iPc 15 17.40 -1.1
e 16 24.00
CHTO 32.59 304 iPd 15 20.09 0.1
ed 15 22.57
esPc 15 48.56
ENH 33.15 331 iPd 15 24.95 0 3
epPc 15 40.34 62kmX
esPc 15 52.42
SHK 33.21 8 ePd 15 24.60 -0.6
KMI 33.27 317 iPd 15 27.20 1 1
1.5s 1690.00nm 6.7mb
Z 22s 7.70um 5.4Msz
N 11s 1.40um
E 11s 2.90um
esPc 15 55.50
sP 16 18.50
S 20 40.00
sS 21 08.00
WKYJ 33.44 13 P 15 27.20 0.0
YONJ 33.97 9 P 15 31.90 0.1
HNR 34.39 109 eP 15 36.00 0.4
NWAO 35.56 195 iPc 15 44.93 -0.4
(sP) 16 13.40
STK 35.93 159 iPc 15 47.70 -0.8
0.6s 281.10nm 6.4mb
MAJO 36.28 15 iPd 15 50.12 -1.3

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30d 17h

| | | |

30d 17h

GRF	105.31	323	e(PKP)	27	20.00	11.1X	ULM	116.63	29	ePKP	27	32.50	2.2	WRA	22.47	162	P	18	13.80	1.5
			i	27	22.20		GLD	116.93	43	PKP	27	40.00	8.5X		0.6s	162.70nm			5.6mb	
MGR	105.40	312	PKP	27	07.60	-1.7		Z 19s		0.84um			5.4Msz	WB2	22.48	162	eP	18	12.30	-0.1
SOI	105.56	310	PKP	27	17.30	7.7X	ECRI	116.97	320	ePKP	27	33.00	1.7		0.9s	338.40nm			5.7mb	
DUI	105.78	314	PKP	27	23.20	13.1X	ECHE	117.41	317	ePKP	27	33.50	1.2				eS	22	06.20	
ATN	105.99	310	PKP	27	14.10	3.6X	ETOR	117.56	318	ePKP	27	33.20	0.6	ASPA	25.90	166	eP	18	46.20	1.3
SAO	106.04	51	PKP	27	20.00	9.4X	EVIA	118.91	317	ePKP	27	35.50	0.3				eS	23	09.40	
	Z 20s		0.71um			5.2Msz	EHUE	119.37	316	ePKP	27	36.50	0.4	NNT	29.38	293	iPd	19	14.80	-1.8
RFI	106.22	314	PKP	27	26.62	15.8X	ENIJ	119.49	315	ePKP	27	36.00	-0.3	OLP	32.43	151	iPd	19	42.60	-0.5
	1.3s	159.70nm					EMON	119.50	323	ePKP	27	36.40	0.3				ePP	21	38.20	
SDI	106.23	314	PKP	27	24.70	13.8X	ERUA	119.98	322	ePKP	27	35.00	-2.0	TKSJ	32.88	10	P	19	47.10	0.1
ARV	106.29	316	PKP	27	28.60	17.7X	EBAN	120.03	317	ePKP	27	38.00	0.8	YONJ	33.95	9	P	19	56.40	0.1
AQU	106.33	315	PKP	27	20.10	9.0X	ECOG	120.30	316	ePKP	27	38.00	0.1	STK	35.93	159	iPd	20	12.90	-0.2
CTI	106.33	319	PKP	27	21.50	10.5X	ECOG	120.30	316	ePKP	27	30.00	-7.9X		0.7s	71.70nm			5.7mb	
RSM	106.49	317	PKP	27	30.30	19.1X	EGUA	120.52	315	iPKPd	27	37.90	-0.3				e	21	34.70	
CMB	106.53	50	PKP	27	20.00	8.4X	STS	120.54	323	ePKP	27	39.00	1.0	MAT	36.26	15	iPd	20	14.30	-1.5
	Z 21s		0.31um			4.8Msz	EPLA	120.59	320	ePKP	27	39.80	1.5		0.8s	65.67nm			5.6mb	
CMB	106.53	50	ePdiff	23	00.68	-0.2	ELUO	120.65	316	iPKPd	27	38.50	0.0	RKG	37.20	194	eP	20	24.00	0.2
	Z 19s		0.60um			5.2Msz	ELUQ	120.65	316	iPKPd	27	35.00	-3.5X	ARMA	39.39	146	iPd	20	42.50	0.3
			e	27	51.68		EHOR	121.20	317	ePKP	27	40.40	1.0		0.6s	66.00nm			5.7mb	
			eSKS	33	36.68		EPRU	121.62	316	iPKPd	27	41.00	0.7				e	26	30.50	
			esSKS	34	15.68		JAQ	121.64	16	ePKP	27	39.00	-0.8	OFUJ	39.60	18	P	20	44.40	0.7
			iS	34	50.68		EJIF	122.04	316	ePKP	27	41.50	0.4	BJI	39.60	347	eP	20	44.00	0.3
			isS	35	33.68		EVAL	122.34	317	ePKP	27	42.50	0.9		1.0s	110.00nm			5.7mb	
			ePS	36	40.68		AVE	124.99	313	iPKPd	27	48.50	1.6	DZM	44.89	124	iPc	21	27.00	-0.2
			eSS	42	33.68					i	29	34.00		HYB	50.36	291	iPd	22	09.20	-0.5
			eSKKS	46	27.68		TIO	126.02	311	iPKPd	27	50.00	0.8		1.0s	245.00nm			6.2mb	
			e	53	09.68					i	29	42.00		GBA	50.69	286	P	22	12.00	-0.2
			eLR	57	52.68		EEO	126.74	22	ePKP	27	53.00	3.1X	CSY	68.75	187	iPd	24	15.00	-0.3
WIT	106.68	327	ePKP	27	26.50	15.2X	UYO	127.17	44	iPKPd	27	50.70	-0.4		0.7s	27.20nm			5 2mb	
TNS	106.76	324	ePKPd	27	16.70	5.0X	FVM	127.53	37	PKP	27	49.60	-2.1	MAIO	71.24	308	iPd	24	32.00	0.8
			ed	27	32.80		GAC	128.85	20	ePKP	27	55.00	1.1		0.9s	44.33nm			5.3mb	
MNS	106.83	315	PKP	27	28.30	16.3X	RSNY	130.18	20	PKP	27	52.90	-3.6X	SDN	78.68	34	ePc	25	13.12	0.0
SFI	106.91	317	PKP	27	13.30	1.3	KIC	131.39	280	PKPc	28	00.00	0.3		0.7s	204.18nm			6.1mb	
WTS	106.96	326	ePKP	27	31.50	19.7X				e	30	17.00		MAW	81.91	200	P	25	30.00	0.0
	1.2s	45.50nm								PKS	31	14.00			1.0s	25.00nm			5.0mb	
RMP	106.99	315	PKP	27	20.20	7.9X	TIC	131.63	280	PKPc	28	00.50	0.3	SVW	82.43	29	eP	25	32.78	-0.1
PGD	107.01	317	PKP	27	30.00	17.5X	LIC	131.69	280	PKPc	28	00.00	-0.2		0.8s	25.24nm			5.2mb	
FIR	107.36	317	ePKP	26	56.00	-16.9X		Z 21s		0.22um			4.8Msz	TTA	82.59	27	eP	25	34.80	1.0
FAI	107.59	310	PKP	27	29.30	15.8X	TKL	133.03	35	PKP	28	02.00	-0.2	KDC	83.48	32	ePc	25	39.05	0.8
PII	107.88	317	PKP	27	29.90	16.1X	CBN	134.40	27	e(PKP)	28	06.00	1.3		0.8s	14.43nm			5.0mb	
BOB	108.23	318	PKP	27	31.40	16.8X	KDS	137.35	290	ePKP	28	01.50	-9.4X	RSO	83.71	29	ePc	25	39.38	-0.3
BCAO	108.48	275	iPdiff	23	09.60	-0.5	RFA	143.86	158	ePKP	28	19.20	-2.9X	CRP	84.11	29	eP	25	41.44	-0.2
	1.0s	10.00nm			5.9mb		PEL	144.36	154	iPKP+	28	21.50	-1.5	IMA	84.15	24	eP	25	43.00	1.3
ISA	108.64	52	PKP	27	30.00	14.3X	RTBS	146.17	154	e(PKP)	28	27.10	1.1		1.2s	48.00nm			5.3mb	
	Z 21s		0.94um			5.3Msz	ZON	146.60	155	ePKP	28	28.30	1.5	SLKM	84.96	30	ePc	25	45.73	0.0
BSF	108.74	322	ePKP	27	16.00	0.5	CFA	146.73	156	iPKPc	28	28.00	1.0	PMR	85.59	28	ePd	25	48.31	-0.4
	1.0s	13.20nm					RTLL	146.87	155	iPKPc	28	27.00	-0.2		0.9s	57.57nm			5.6mb	
HAU	108.93	322	ePKP	27	15.40	-0.4	MRA	146.98	160	e(PKP)	28	26.30	-0.9	FBA	86.45	25	(P)	25	52.57	-0.4
	Z 28s		0.65um			5.0MszX	TCA	148.34	161	ePKPc	28	29.20	-0.4		0.8s	4.52nm			4.6mb X	
LRM	109.51	40	ePKP	27	13.70	-3.6X	CYA	150.51	156	ePKP	28	33.00	0.1	KLU	87.12	29	eP	25	56.56	0.2
LPG	109.71	320	ePKP	27	17.50	-0.2	FSA	152.48	154	e(PKP)	28	36.00	0.2	INK	91.98	22	eP	26	19.50	0.6
	0.8s	8.85nm					PSO	155.32	84	ePKP	28	43.00	2.4X		1.0s	6.00nm			4.9mb	
LPL	109.72	320	ePKP	27	17.60	0.0	YJA	156.06	150	ePKPc	28	41.60	0.2	BSD	101.31	327	iPdiff	26	50.00	-11.5X
	0.7s	7.40nm					RSTA	156.74	189	ePKP	28	50.80	9.1X		1.2s	53.00nm				
LOR	110.77	323	ePKP	27	19.10	-0.2				e	29	11.90		BRNL	103.09	325	ePdiff	27	01.00	-8.5X
	1.3s	14.80nm					MOCB	156.75	148	PKP	28	38.20	-4.2X	BRN	103.19	325	ePdiff	27	04.00	-5.9X
	Z 27s		1.23um			5.4MszX	BOG	157.88	74	e(PKP)	28	24.00	-19.8X	PRU	103.20	322	Pdiff	27	05.50	-4.6X
LBF	110.83	322	ePKP	27	20.30	0.9	LPB	158.81	136	PKP	28	45.00	0.2		Z 19s		0.80um			5.3Msz
	1.3s	15.90nm								i	29	23.00			N 20s		0.10um			
SSF	111.08	322	ePKP	27	19.80	0.0	ZOBO	158.97	135	PKP	28	44.00	-1.2		E 20s		0.70um			
	1.3s	24.90nm						1.1s		74.83nm							e	27	30.90	
CDR	111.09	318	ePKPd	27	28.90	8.9X	SDV	159.42	59	ePKP	28	46.20	0.9				SKS	33	14.30	
			e	28	01.00		CCH	159.51	141	ePKP	28	50.00	4.5X				e	33	44.00	
FCC	111.63	22	ePKP	27	14.50	-5.9X				i	29	26.00		MUD	103.81	330	ePdiff	26	55.50	-17.1X
BGF	111.71	322	ePKP	27	21.00	0.0	PPD	159.59	184	ePKP	28	46.40	1.4		1.0s	24.00nm				
	1.1s	30.05nm					TOV	159.67	56	ePKP	28	46.00	0.6				e	27	06.00	
TCF	112.23	322	ePKP	27	21.70	-0.4	CAR	161.53	49	iPKPd	28	48.00	0.7	BRT	104.02	313	Pdiff	27	10.40	-3.6X
	1.0s	12.20nm						S.D. = 1.0		on 282 of 351 obs.					2.0s	466.20nm			7.1mb X	
CAF	112.95	321	ePKP	27	23.90	0.4	----------							KMR	104.08	320	iPdiff	27	11.40	-2.7X
	1.0s	7.60nm					MAY 30, 1993 17h 13m 19.99± 1.11s							GEC2	104.09	321	e(Pdif	27	13.00	-1.2
EMUT	113.00	45	PKP	27	25.10	1.0	1.559 N ± 4.0km 127.248 E ± 6.5km								0.9s	5.40nm			5.5mb	
LPF	113.30	325	ePKP	27	24.20	0.2	DEPTH = 94.6 ± 10.8 km							ASS	106.64	316	Pdiff	27	31.80	6.1X
	0.8s	15.30nm					5.6mb (23 obs.)							CRE	106.95	317	Pdiff	27	33.90	6.8X
MFF	113.50	323	ePKP	27	24.20	-0.3	HALMAHERA, INDONESIA						(267)	OSS	107.09	320	ePdiff	27	33.20	5.5X
	0.6s	7.50nm												SAL	107.23	319	Pdiff	27	34.84	6.7X
ETER	113.61	318	ePKP	27	31.20	6.4X	CGP	7.31	340	eP	15	06.00	0.1		1.3s	371.70nm			7.4mb X	
LPO	113.61	321	ePKP	27	25.10	0.3				eS	16	13.00		VDL	107.60	320	iPdiff	27	36.50	6.5X
	1.1s	22.45nm					MTN	14.82	165	eP	16	45.00	-1.0	SLE	107.73	322	ePdiff	27	38.00	7.7X
LFF	113.77	321	ePKP	27	25.30	0.2		0.4s	300.00nm				5.9mb	BDI	107.73	317	Pdiff	27	36.83	6.3X
	1.1s	23.95nm					BAG	16.15	336	eP	17	04.60	1.6		1.5s	62.80nm			6.5mb	
FRB	113.82	8	ePKP	27	25.00	0.5				eS	24	30.00		LLS	107.76	321	ePdiff	27	37.90	7.2X
ESEL	114.66	316	ePKP	27	27.20	0.2	GUMO	21.14	55	eP	17	58.60	-0.5	ZLA	107.90	321	ePdiff	27	39.80	8.6X
EPF	114.93	320	ePKP	27	27.30	-0.2		1.3s	384.20nm				5.6mb	ENN	108.01	325	ePdiff	27	38.00	6.6X
	1.1s	12.20nm					PJG	21.14	55	eP	17	58.60	-0.5		1.0s	20.00nm			6.2mb	
RSSD	115.60	39	PKP	27	25.10	-3.8X	GUA	21.15	55	eP	17	58.30	-0.9	TMA	108.13	320	ePdiff	27	40.90	8.6X
EGRA	115.75	319	ePKP	27	30.20	1.3		1.2s	312.50nm				5.5mb	WLS	108.17	323	Pdiff	27	42.84	10.5X

30d 17h

WLF	108.36	324	Pdiff	27	41.00		8.0X
MOF	108.53	322	Pdiff	27	45.14		11.1X
BSF	108.75	322	Pdiff	27	44.29		9.3X
ORO	108.89	320	Pdiff	27	45.25		9.6X
	0.6s	15.60nm				6.4mb	
LOMF	108.93	322	Pdiff	27	47.44		11.7X
PCP	108.93	318	Pdiff	27	43.73		7.9X
SNF	109.05	325	Pdiff	27	50.50		14.4X
DOU	109.07	325	Pdiff	27	43.80		7.6X
DIX	109.07	320	iPdiff	27	48.90		12.2X
FIN	109.28	318	Pdiff	27	45.34		8.0X
PGF	109.35	316	Pdiff	27	50.78		13.0X
EMS	109.38	320	ePdiff	27	49.50		11.5X
ROB	109.47	318	Pdiff	27	49.87		11.6X
LSD	109.49	320	Pdiff	27	49.32		10.8X
RSP	109.54	319	Pdiff	27	50.69		12.1X
IMI	109.61	318	Pdiff	27	48.08		9.2X
BHB	109.66	319	Pdiff	27	52.11		13.1X
ENR	109.80	318	Pdiff	27	50.05		10.3X
SAOF	109.80	318	Pdiff	27	53.66		14.0X
DOI	109.80	319	Pdiff	27	49.40		9.7X
STV	109.85	319	Pdiff	27	49.73		9.8X
AUTN	109.88	318	Pdiff	27	54.86		14.6X
PZZ	109.90	319	Pdiff	27	51.97		11.7X
SBF	109.93	318	Pdiff	27	54.75		14.5X
RRL	109.94	319	Pdiff	27	51.29		10.8X
AURF	109.99	318	Pdiff	27	55.35		14.8X
TOUF	109.99	318	Pdiff	27	55.01		14.3X
REVF	110.02	318	Pdiff	27	56.13		15.5X
CALN	110.33	318	Pdiff	27	57.82		15.6X
FRB	113.80	8	ePdiff	28	15.50		18.6X
	1.5s	62.00nm					
FVM	127.49	37	ePKP	32	12.19		-3.7X

S.D. = 0.8 on 38 of 88 obs.

MAY 30, 1993 17h 17m 55.09± 0.33s
39.268 N ± 3.0km 29.166 E ± 4.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 3.5 (ISK)

ALT	0.76	106	iPg	18	10.00		-0.1
			iSg	18	19.50		
KHL	0.98	163	iPg	18	14.60		0.8
			iSg	18	27.20		
KCT	1.16	328	iPn	18	17.20		0.4
YLV	1.31	7	iPn	18	19.20		-0.1
GPA	1.35	40	iPn	18	19.90		0.0
BNT	1.45	319	iPn	18	22.20		0.8
EDC	1.47	317	iPn	18	21.00		-0.6
EYL	1.50	30	ePn	18	22.20		0.0
HRT	1.60	14	iPn	18	23.00		-0.5
ISK	1.80	357	ePn	18	26.70		0.4
ITU	1.84	356	iPnd	18	30.00		3.1X
			iSg	18	54.00		
KGT	1.86	310	ePn	18	27.20		0.0
CIN	1.87	207	ePn	18	27.00		-0.4
CTT	1.96	344	ePn	18	28.70		0.0
BCK	2.12	148	ePn	18	31.00		-0.2
EZN	2.27	285	iPn	18	32.80		-0.3
ELL	2.58	167	iPn	18	37.60		-0.2
VAY	5.44	294	ePn	19	20.50		2.3X

S.D. = 0.4 on 16 of 18 obs.

% MAY 30, 1993 17h 19m 08.70± 0.67s
39.236 N ± 5.9km 29.182 E ± 7.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 3.3 (ISK).

ALT	0.74	104	ePg	19	22.80		-0.6
			eSg	19	34.30		
KHL	0.95	164	iPg	19	27.20		0.3
			iSg	19	39.70		
KCT	1.20	328	ePn	19	30.70		-0.3
GPA	1.36	39	ePn	19	34.00		0.2
EYL	1.53	29	ePn	19	36.00		-0.1
HRT	1.63	13	ePn	19	38.20		0.7
ISK	1.83	357	ePn	19	40.00		-0.4
KGT	1.89	311	ePn	19	41.00		-0.3
CTT	1.99	343	ePn	19	43.20		0.4

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

MAY 30, 1993 17h 35m 28.49± 0.27s
8.683 S ± 6.1km 74.829 W ± 7.5km
DEPTH = 138.0km (5 depth phases)
4.5mb (13 obs.)

PERU-BRAZIL BORDER REGION (112)

ARE	8.39	157	eP	37	28.00		-0.8
ZOBO	9.98	140	P	37	49.90		-0.3
			LR	24	20.00		
LPB	10.20	141	P	37	54.00		1.1
SIV	15.27	120	P	38	57.60		-0.5
SDV	17.95	14	ePc	39	30.00		-1.0
PPD	26.22	123	eP	40	51.60		-0.8
NAV	46.10	353	P	43	40.20		-0.2
UYO	46.50	337	iPc	43	43.30		-0.4
TYNO	51.73	355	P	44	35.30		11.7X
STCO	51.79	356	P	44	35.45		11.4X
ACTO	52.26	355	P	44	39.73		12.2X
WLVO	52.46	357	P	44	39.86		10.9X
GAC	54.14	359	eP	44	42.00		0.7
EEO	55.20	356	eP	44	50.00		1.0
			pP	45	23.00	141km	
MSU	58.42	326	P	45	11.90		-0.3
EMUT	58.63	328	P	45	13.40		-0.3
DAU	59.30	328	P	45	17.80		-0.5
			pP	45	50.60	138km	
HVU	61.08	328	P	45	29.60		-0.7
			pP	46	02.60	138km	
ULM	61.48	345	eP	45	33.50		0.9
BONR	61.62	322	P	45	34.50		0.4
			pP	46	06.90	135km	
JAQ	62.25	359	eP	45	35.50		-2.1
LRM	63.87	332	eP	45	48.20		-0.5
ORV	64.57	321	P	45	53.30		0.2
KDS	65.70	72	iPc	45	59.30		-1.4
LBFM	65.90	323	P	46	01.30		-0.5
FCC	69.00	349	eP	46	25.50		5 0X
BMW	69.80	327	P	46	25.70		-0.1
MCW	70.97	329	P	46	33.10		0.3
MFF	85.90	42	iPc	47	54.60		0.6
GRR	85.98	40	iPc	47	54.50		0.2
	0.6s	1.80nm				4.1mb	
LFF	86.02	44	iPc	47	55.50		0.9
LPO	86.25	44	iPc	47	56.20		0.4
	0.6s	3.05nm				4.4mb	
FLN	86.33	40	iPc	47	56.30		0.3
CAF	86.92	44	iPc	47	58.80		-0.2
BALM	86.96	333	P	47	59.60		0.6
INK	87.03	341	ePc	48	00.40		1.4
	0.6s	4.00nm				4.6mb	
			pP	48	36.00	139km	
BGF	87.87	42	iPc	48	03.30		-0.2
	0.6s	3.95nm				4.6mb	
AVF	88.27	42	iPc	48	05.30		-0.1
	0.6s	2.00nm				4.3mb	
SMF	88.56	43	iPc	48	07.00		0.2
	0.5s	2.20nm				4.5mb	
KLU	88.73	333	P	48	07.40		0.0
LPL	90.27	44	iPc	48	16.20		1.1
	0.6s	3.70nm				4.6mb	
LPG	90.27	44	iPc	48	16.40		1.2
	0.7s	3.65nm				4.6mb	
SLKM	90.40	331	P	48	15.00		-0.1
FBA	90.69	336	P	48	16.40		0.1
	0.8s	10.72nm				5.0mb	
CDF	91.22	41	iPc	48	19.60		0.4
	0.7s	1.85nm				4.4mb	
CRP	91.52	332	P	48	19.90		-0.5
RSO	91.59	331	P	48	20.60		-0.2
SVW	93.11	331	P	48	27.20		-0.4
	1.1s	10.98nm				5 0mb	
BCAO	93.98	86	ePc	48	40.20		7.6X
	0.6s	3.00nm				4.7mb	
SLL	96.57	30	eP	48	43.40		0.0
	0.5s	0.80nm				4.4mb	
STK	126.73	219	ePKP	54	18.40		0.7
	0.6s	4.00nm					
ASPA	137.31	221	iPKPd	54	38.20		0.1
	0.5s	8.20nm					
WB2	139.57	225	ePKP	54	35.70		-6.6X
	0.5s	2.40nm					
			i	54	42.80		
			i	54	45.00		
WRA	139.58	225	PKP	54	35.00		-7.3X
	0.8s	0.70nm					
MTN	146.50	231	ePKP	54	55.00		0.7
	0.6s	186.00nm					
MBL	147.03	206	iPKPd	54	57.70		2.7X
	0.5s	14.00nm					
BJI	147.27	344	ePKP	54	56.00		1.2
			e	55	33.50		
GBA	152.36	77	PKP	55	12.00		8.7X
HYB	152.69	69	ePKP	54	59.70		-4.0X
LZH	152.70	2	PKPd	55	11.20		7.7X
	1.5s	24.00nm					
			sP	55	48.00		
SSE	153.16	328	ePKP	55	02.00		-2.0
			sP	55	11.80		

S.D. = 0.8 on 49 of 61 obs.

% MAY 30, 1993 17h 50m 30.59± 0.57s
44.534 N ± 3.9km 7.195 E ± 5.0km
DEPTH = 10.7 ± 6.7 km
NORTHERN ITALY (545)
ML 2.3 (GEN).

PZZ	0.07	247	P	50	33.49		0.3
			S	50	35.32		
STV	0.30	162	P	50	36.81		-0.2
			S	50	41.10		
BHB	0.31	9	P	50	37.21		0.1
			S	50	41.79		
ENR	0.35	152	P	50	37.44		-0.4
			S	50	42.30		
RRL	0.48	323	P	50	40.07		-0.5
			S	50	46.48		
ROB	0.54	116	P	50	42.02		0.5
			S	50	49.91		
RSP	0.62	4	P	50	42.87		-0.2
			S	50	51.06		
FIN	0.80	114	P	50	45.70		-0.3
			S	50	55.41		
IMI	0.80	141	P	50	45.89		-0.2
			S	50	55.92		
LSD	0.92	358	P	50	48.27		-0.1
			S	51	00.21		
PCP	0.97	89	P	50	48.59		-0.3
			S	51	01.41		

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

& MAY 30, 1993 18h 22m 41.61s
59 593 N 153.006 W
DEPTH = 95.9km
SOUTHERN ALASKA (2)
<AEIC>.

AUE	0.30	219	eP	22	55.30		-0.6
			eS	23	05.97		
AUL	0.30	226	ePc	22	55.36		-0.6
AUP	0.31	223	ePd	22	55.55		-0.6
AUH	0.32	224	ePd	22	55.53		-0.6
AUI	0.34	220	iPd	22	55.46		-0.6
			eS	23	06.61		
INE	0.47	357	eP	22	56.74		-0.4
			eS	23	08.69		
INW	0.48	352	ePc	22	56.44		-0.7
			eS	23	08.53		
ILIM	0.49	3	iPd	22	56.50		-0.7
			eS	23	08.68		
PDB	0.63	289	iPd	22	57.39		-0.9
			eS	23	09.77		
XLV	0.67	101	iPc	22	57.93		-0.7
			eS	23	10.83		
CDD	0.74	206	iPd	22	58.35		-1.0
			eS	23	12.35		
MCNL	0.79	240	iPd	22	58.88		-0.9
			eS	23	12.33		
RS2	0.88	8	P	23	01.50		0.5
RDW	0.90	6	eP	23	00.18		-0.9
			eS	23	15.96		
CNPM	0.90	94	iPc	23	00.07		-0.9
			eS	23	14.41		
NCT	0.97	2	iPd	23	00.93		-0.9
			eS	23	16.04		
DFR	1.02	9	ePd	23	01.48		-0.8
			eS	23	16.97		
SYI	1.04	162	iPd	23	01.58		-0.8
			eS	23	16.97		
BRLK	1.09	80	eP	23	01.80		-1.3
			eS	23	17.28		
NKA	1.45	37	eP	23	08.53		1.1
CKL	1.64	11	iPd	23	09.13		-0.9
			eS	23	30.62		
SPU	1.66	16	iPd	23	09.20		-1.0
			eS	23	30.87		
SLKM	1.67	56	ePc	23	08.95		-1.3
CKN	1.69	14	eP	23	09.77		-0.7
BGL	1.70	10	ePd	23	10.05		-0.7

CP2	1.72	12	ePd	23	10.36	-0.7
CPAM	1.72	14	eP	23	10.76	-0.2
CRP	1.73	14	eP	23	10.47	-0.7
			eS	23	33.27	
CGLM	1.79	16	iPd	23	11.00	-0.9
SEW	1 87	73	eP	23	11.70	-1.0
			eS	23	34.35	
KDC	1.87	172	P	23	10.80	-2.0
SVW	2.00	321	P	23	13.50	-1.1
MPA	2.04	62	eP	23	13.57	-1.4
			eS	23	38.28	
PTE	2.36	56	eP	23	17.90	-1.4
PMS	2.38	44	P	23	18.60	-1.1
			S	23	46.30	
SKT	2.50	16	ePd	23	19.98	-1.3
PLRM	2.77	42	eP	23	23.78	-1.1
GHO	2.97	41	ePc	23	26.02	-1.7
			eS	23	59.29	
SML	3 20	44	ePc	23	28.76	-2.0
[illegible]N	3.37	73	eP	23	30.39	-2.7
[illegible]D	3.40	90	P	23	31.70	-1.8
[illegible]M	3.58	49	eP	23	34.33	-1.8
TTA	3.65	338	eP	23	35.06	-2.0
VLZ	3.66	62	eP	23	35.15	-1.9
CVA	3.76	72	eP	23	36.13	-2.3
			eS	24	17.59	
HUR	3.77	24	eP	23	37.74	-0.8
KLU	3.98	58	ePc	23	39.20	-2.5
SGAM	4.02	74	eP	23	39.79	-2.2
TRF	4.08	17	eP	23	41.54	-1.6
RAGM	4.26	76	eP	23	43.08	-2.3
RND	4.31	26	eP	23	43.78	-2.4
HMT	4.46	77	eP	23	45.55	-2.6
MCK	4.58	23	eP	23	48.36	-1.5
GLB	4.91	64	eP	23	51.78	-2.6
CROM	5 06	72	eP	23	54.35	-2.3
WAX	5.17	76	eP	23	55.01	-3.0
TGL	5 21	73	eP	23	56.43	-2.3
NEA	5.33	19	eP	23	58.00	-2.2
WRH	5 41	23	eP	23	58.66	-2.7
BALM	5.49	70	eP	24	00.48	-2.1
HDA	5.61	28	eP	24	01.32	-2.7
CCB	5.63	23	eP	24	01.36	-2.9
YAH	5 71	77	eP	24	03.09	-2.6

63 obs. associated

& MAY 30, 1993 18h 39m 39.30s
40.270 N 124.478 W
DEPTH = 10.0km
NEAR COAST OF NORTHERN CALIF. (35)
<BRK>. ML 3.3 (BRK). MD 3.2 (GM).

KCTM	0.23	28	P	39	44.09	-0.2
KMPM	0.31	62	iPc	39	45.20	-0.6
			eS	39	49.17	
FOX	0.45	56	iP	39	48.44	0.0
			iS	39	54.99	
KBBM	0.49	98	P	39	49.29	0.1
EKR	0.50	31	iP	39	49.38	0.0
			iS	39	57.65	
KCRM	0.53	73	P	39	49.77	-0.2
FHC	0.65	35	iP	39	51.80	-0.5
			iS	40	00.71	
ARC	0.68	27	iPc	39	52.79	0.0
			eS	40	01.54	
KBSM	0.76	117	P	39	54.09	-0.2
KHMM	0.83	43	P	39	54.80	-0.6
KIPM	0.89	121	P	39	56.08	-0.5
KCPM	0.90	130	P	39	55.99	-0.7
KBNM	1.05	111	P	39	58.61	-0.7
KSPM	1.06	135	P	39	58.09	-1.3
GCBM	1.15	140	P	39	59.20	-1.7
KRKM	1.22	125	P	40	00.53	-1.6
GNAM	1.25	148	P	40	00.70	-1.9
LGPM	1.41	62	P	40	02.93	-2.2
GHOM	1 42	149	P	40	02.93	-2.3
WDC	1.51	78	eP	40	04.23	-2.2
GCWM	1.57	136	P	40	05.11	-2.2
GRTM	1.93	133	P	40	16.89	4.4
GARM	2.16	127	P	40	23.02	7.1
MIN	2.20	87	iP	40	14.30	-2.2
LBFM	2.24	60	ePc	40	15.67	-1.5
LSLM	2.25	85	P	40	15.89	-1.4
MGL	2.29	101	P	40	18.06	0.3
ORV	2.40	106	iP	40	16.08	-3.2
ARN	3.71	141	eP	40	35.45	-2.6
COE	3.72	143	eP	40	34.10	-4.0
GCC	3.77	148	iPd	40	34.62	-4.1
SAO	4.23	145	iP	40	41.15	-4.1
LLA	4.58	142	iP	40	46.98	-3.3

33 obs. associated

• MAY 30, 1993 19h 09m 38.53± 1.06s
34.866 N ± 9.6km 139.240 E ±12.1km
DEPTH = 33.0km (normol)
4.4mb (2 obs.)
NEAR S. COAST OF HONSHU, JAPAN (230)

MAT	1.87	334	eP	10	08.00	-0.8
			eS	10	30.00	
TKSJ	4.38	260	P	10	43.80	-0.7
			S	11	33.70	
YONJ	4.75	276	P	10	48.60	-1.1
AOMJ	5.75	9	eP	11	04.90	1.1
KUMJ	7.38	254	P	11	28.20	1.5
KAGJ	7.91	245	P	11	35.20	1.0
WB2	54.70	186	eP	19	06.40	-0.4
	0.5s		2.50nm		4.5mb	
WRA	54.70	186	P	19	06.30	-0.5
	0.4s		1.30nm		4.3mb	

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

MAY 30, 1993 19h 13m 39.57± 0.56s
39.244 N ± 5.5km 29.114 E ± 5.8km
DEPTH = 5.0km (geophysicist)
TURKEY (366)
ML 2.9 (ISK).

DST	0.52	314	iPg	13	49.20	-0.8
			iSg	13	57.20	
ALT	0.80	103	ePg	13	55.40	-0.2
			eSg	14	05.90	
KHL	0.97	161	iPg	13	58.70	0.1
			iSg	14	12.70	
KCT	1.16	330	iPn	14	02.20	0.5
YLV	1.34	8	ePn	14	04.70	-0.1
BNT	1.44	321	ePn	14	06.20	-0.2
EDC	1.46	319	ePn	14	07.00	0.4
EYL	1.55	31	ePn	14	07.70	-0.2
ISK	1.82	359	ePn	14	12.00	0.3
KGT	1.84	311	ePn	14	12.20	0.1
CTT	1.97	345	ePn	14	14.20	0.2

S.D = 0.4 on 11 of 11 obs.

• MAY 30, 1993 19h 20m 59.18± 2.62s
16.991 N ±28.5km 97.034 W ±13.3km
DEPTH = 10.0km (geophysicist)
OAXACA, MEXICO (60)

OXX	0.31	73	iPd	21	04.27	-1.4
			iS	21	18.00	
IISM	2.01	351	iP	21	34.00	0.5
			(S)	22	07.50	
IIT	2.35	329	(P)	21	39.84	1.1
			(S)	22	23.45	
PPM	2.56	324	iP	21	41.00	-0.9
			(S)	22	16.00	
IIA	2.65	324	iP	21	35.00	-7.6X
			(S)	22	15.00	
III	2.70	301	(P)	21	39.50	-4.1X
ACX	2.71	268	(P)	21	34.00	-9.6X
UNM	3.10	319	iP	21	48.00	-1.3
CRX	3.48	314	(P)	22	01.00	6.3X
SCX	4.22	93	(P)	22	06.00	1.0
MRX	4.78	305	(P)	22	07.00	-6.0X
			(S)	23	19.00	
UYO	17.26	7	iPd	25	02.90	1.0

S.D. = 1.4 on 7 of 12 obs.

• MAY 30, 1993 19h 42m 20.05± 2.69s
34.930 S ±23 2km 70 229 W ±10.6km
DEPTH = 10.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)
MD 3.9 (SAN).

CHCH	1.05	341	iP	42	39.10	-0.9
			(S)	42	53.34	
PCH	1.33	350	iP	42	43.82	-0.8
			iS	43	02.28	
LNV	1.38	315	iP	42	44.62	-0.6
			iS	43	03.18	
TACH	1.40	335	iP	42	45.09	-0.6
			iS	43	04.31	
SAN	1.52	346	iP	42	47.04	-0.2
			iS	43	07.87	
FCH	1.60	358	iP	42	48.76	0.0
			iS	43	11.13	
PEL	1.82	348	iP	42	52.38	0.7
			iS	43	17.03	
LCCH	1.83	322	iP	42	52.27	0.5
			(S)	43	17.60	
ROCH	2.06	341	iP	42	56.15	0.8
			iS	43	23.11	
JACH	2.26	352	iP	42	59.63	1.5
			(S)	43	30.15	
MRA	4.53	58	ePd	43	29.80	-0.4

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

? MAY 30, 1993 19h 42m 57.03± 1.05s
37.941 N ± 9.0km 29.428 E ± 9.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 3.0 (ISK).

KHL	0.39	11	iPg	43	04.20	-0.8
			eSg	43	10.70	
BCK	1.04	117	ePn	43	16.50	-0.2
CIN	1.12	253	ePg	43	18.00	0.1
			iSg	43	34.00	
ALT	1.23	26	ePn	43	21.00	1.0
DST	1.78	340	ePn	43	31.00	3.0X

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

% MAY 30, 1993 19h 47m 57.44± 1.00s
39.291 N ± 8.7km 29.147 E ±13.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.6 (ISK)

DST	0.51	308	ePg	48	07.00	-0.8
KHL	1.01	163	iPg	48	16.50	-0.1
			eSg	48	29.50	
KCT	1.13	328	ePn	48	18.70	0.0
YLV	1.29	8	ePn	48	21.20	-0.1
KGT	1.83	310	ePn	48	30.20	1.0

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

? MAY 30, 1993 19h 53m 31.98± 8.36s
18.190 N ±22.6km 67.383 W ±67.5km
DEPTH = 33.0km (normol)
MONA PASSAGE (89)

MGP	0.33	123	P	53	40.00	-0.2
LRS	0.52	79	P	53	42.10	-0.8
APR	0.67	67	P	53	45.00	0.0
			S	53	53.30	
PORP	0.72	101	P	53	45.20	-0.5
CLLP	0.77	98	P	53	46.20	-0.2
			S	53	55.40	
CPD	1.40	96	P	53	56.40	0.9
LPR	1.44	85	P	53	57.00	0.9

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

MAY 30, 1993 20h 24m 34.98± 0.85s
32.698 S ± 5.1km 71.572 W ±10.1km
DEPTH = 49.7 ± 9.2 km
NEAR COAST OF CENTRAL CHILE (135)
MD 4.6 (SAN). Felt (IV) ot Volparaiso.

ROCH	0.55	120	iP	24	46.17	-0.9
LCCH	0.78	180	iP	24	48.98	-0.8
JACH	0.83	89	iP	24	49.87	-0.7
PEL	0.87	121	iP	24	51.31	0.2
SAN	1.07	135	iP	24	54.33	0.4
			iS	25	10.12	
TACH	1.09	151	iP	24	54.45	0.3
FCH	1.25	121	iP	24	57.02	0.4
LNV	1.26	174	iP	24	56.24	-0.3
PCH	1.28	136	iP	24	57.37	0.5
CHCH	1.45	148	iP	25	00.35	1.1
RTBS	2.07	61	e(P)c	25	09.00	1.1
ZON	2.71	66	iPc	25	20.00	2.9X
RTLL	2.97	63	iPc	25	05.50	-15.3X
CFA	3.03	70	ePc	25	07.50	-14.2X
			S	25	20.00	
RTPR	4.94	62	e(P)c	25	48.90	0.4
TCA	6.08	79	iPd	26	03.50	-1.2
CYA	6.54	51	ePd	26	07.70	-3.4X
FSA	8.18	38	eP	26	34.50	0.7

30d 20h

ANT	9.02	7	eP	26	58.00	12.7X
SLA	9.56	35	e(P)	26	53.60	0.6
CCH	16.02	19	eP	28	19.00	0.2
CNCB	16.15	12	P	28	19.70	-1.0
ARE	16.17	0	eP	28	24.00	3.3X
LPB	16.40	12	P	28	24.00	0.3
ZOBO	16.65	12	P	28	23.20	-3.9X
Z	24s	0.31um				
		LR		33	20.00	
SIV	19.16	32	P	28	52.60	-4.8X
PPD	20.86	64	eP	29	12.20	-2.9X
RSTA	21.31	74	eP	29	17.90	-1.7
WRA	122.09	209	PKP	43	26.20	0.1
	0.6s	0.40nm				
GBA	145.94	117	PKP	44	11.00	0.6
S.D. = 0.8	on	21 of	30 obs.			

MAY 30, 1993 21h 01m 22.36± 0.51s
46.429 N ± 4.2km 15.031 E ± 4.4km
DEPTH = 6.1 ± 3.7 km
NORTHWESTERN BALKAN REGION (383)
ML 2.7 (VIE). MD 3.2 (LJU).
Felt (IV) ot Rovne no Koroskem, Slovenio.

LJU	0.52	222	ePg	01	33.20	0.5
			eSg	01	41.60	
CEY	0.81	212	ePg	01	38.40	0.0
			i	01	40.00	
			eSg	01	49.50	
PTJ	0.83	129	iPgc	01	38.00	-0.9
			iSg	01	52.10	
VOY	0.88	244	ePg	01	39.00	-0.8
			e	01	42.50	
			eSg	01	52.70	
ZAG	0.90	132	eP	01	40.20	0.2
			iSg	01	51.60	
VBY	0.94	170	ePg	01	40.50	-0.1
			eSg	01	56.00	
RBL	1.01	271	Pc	01	40.80	-1.1
			eSg	01	55.70	
TRI	1.14	231	P	01	43.90	-0.1
			eSg	02	00.80	
RIY	1.17	203	iPg	01	44.90	0.3
			iSg	02	02.20	
KBA	1.33	300	iPgc	01	46.20	-1.2
			i	01	47.10	
			iSg	02	02.40	
FVI	1.56	277	P	01	50.80	0.1
			eSg	02	13.50	
SOP	1.63	39	e(P)	02	03.50	11.8X
ZST	2.26	38	eP	02	09.40	8.6X
			e	02	26.20	
			i	02	34.10	
CTI	2.38	262	P	02	02.80	0.2
WTTA	2.47	291	iPnc	02	04.20	0.2
			i	02	07.20	
SRO	2.63	57	eP	02	09.60	3.5X
			e	02	51.80	
SOTA	2.74	288	iPnc	02	08.90	1.1
			i	02	12.30	
			i	02	51.10	
KHC	2.88	341	Pn	02	09.40	-0.2
0.5s	4.80nm					
			Pg	02	19.50	
			Sn	02	38.00	
			Sg	02	49.30	
PRU	3.58	355	ePn	02	20.00	0.5
			Pg	02	26.90	
			e	03	00.60	
			eSg	03	08.10	
GRF	4.15	323	e(Pg)	02	40.00	12.5X
			e(Sg)	03	31.00	
S.D. = 0.7	on	16 of	20 obs.			

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* MAY 30, 1993 21h 08m 58.54± 1.48s
54.374 N ±14.4km 159.860 W ±11.1km
DEPTH = 33.0km (normol)
3.9mb (4 obs.)
SOUTH OF ALASKA (17)

SDN	1.04	339	iPd	09	16.59	-0.2
			(S)	09	26.25	
KDC	5.34	48	(P)	10	18.85	1.0
			eS	11	28.82	
SVW	7.12	17	eP	10	42.77	-0.3
RSO	7.21	29	(P)	10	44.66	0.3
CRP	8.04	28	eP	10	55.40	-0.6
KLU	10.27	40	(P)	11	27.07	0.4
BALM	11.48	47	(P)	11	42.34	-0.8
YKA	24.56	52	eP	14	22.50	6.4X
	0.5s	0.30nm			3.1mb	
RSSD	36.93	83	(P)	16	05.68	-0.5
	0.3s	0.52nm			3.9mb	
NB2	64.71	5	P	19	35.50	0.4
	0.8s	1.10nm			4.0mb	
HFS	65.73	4	eP	19	41.70	0.2
	0.4s	0.90nm			4.2mb	
S.D. = 0.6	on	10 of	11 obs.			

? MAY 30, 1993 22h 05m 03.66± 4.88s
18.621 N ±37.4km 66.759 W ±25.2km
DEPTH = 33.0km (normol)
PUERTO RICO REGION (90)

APR	0.17	171	P	05	10.00	0.0
			S	05	13.50	
CLLP	0.57	162	P	05	15.20	0.0
			S	05	23.70	
PORP	0.58	168	P	05	15.20	-0.2
SJG	0.77	131	iP	05	18.00	-0.1
LPR	0.90	110	P	05	19.80	-0.2
			S	05	31.13	
CPD	0.99	126	P	05	21.50	0.2
S.D. = 0.2	on	6 of	6 obs.			

MAY 30, 1993 22h 10m 18.92± 0.74s
34.371 N ±11.9km 26.308 E ± 6.2km
DEPTH = 83.8 ± 13.3 km
3.6mb (1 obs.)
CRETE (370)

NPS	1.06	327	iPbc	10	39.70	0.5
VAM	2.02	301	ePg	10	59.90	8.2X
CIN	3.53	24	eP	11	12.00	-0.5
VLI	3.61	311	ePn	11	14.00	0.4
CSS	5.82	82	eP	11	44.75	0.3
			eS	12	46.30	
HRI	7.93	95	eP	12	13.20	-0.3
DSI	8.12	108	eP	12	15.30	-0.8
MBH	8.60	120	eP	12	23.50	0.8
SOI	9.07	297	Pc	12	28.60	-0.5
			eSg	12	43.10	
ROI	9.36	306	P	12	33.00	-0.1
ATN	9.54	296	P	12	35.30	-0.2
			eSg	12	50.10	
TDS	9.56	306	P	12	36.60	0.9
MGR	10.32	307	P	12	44.80	-1.2
HFS	27.06	346	eP	15	55.70	0.7
0.4s	0.80nm				3.6mb	
S.D. = 0.8	on	13 of	14 obs.			

MAY 30, 1993 22h 29m 21.06± 0.49s
39.253 N ± 4.7km 29.123 E ± 4.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 3.1 (ISK).

DST	0.52	313	iPg	29	31.00	-0.6
			eSg	29	38.00	
ALT	0.79	104	ePg	29	36.40	-0.1
			eSg	29	45.90	
KHL	0.98	161	iPg	29	39.70	0.0
			iSg	29	52.50	
KCT	1.16	330	iPn	29	42.40	-0.3
YLV	1.33	8	ePn	29	45.10	-0.5
GPA	1.38	41	ePn	29	46.20	-0.2
BNT	1.44	320	ePn	29	47.10	-0.1
EDC	1.46	319	ePn	29	47.00	-0.5
EYL	1.53	31	ePn	29	48.60	0.0
ISK	1.81	358	iPn	29	53.10	0.6
CIN	1.84	207	eP	29	56.00	3.1X
KGT	1.84	311	iPn	29	53.10	0.1
CTT	1.96	345	iPn	29	55.10	0.4
EZN	2.24	286	ePn	29	59.00	0.3
DMK	2.77	338	ePn	30	07.00	0.7
S.D. = 0.4	on	14 of	15 obs.			

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* MAY 30, 1993 22h 29m 36.76± 1.48s
26.793 S ± 6.8km 71.266 W ±18.6km
DEPTH = 107.7 ± 21.1 km
OFF COAST OF NORTHERN CHILE (121)

ANT	3.17	14	eP	30	25.00	-0.7
FSA	4.76	83	e(P)	30	48.50	1.0
CYA	5.13	110	eP	30	51.30	-1.3
			(S)	31	52.30	
RTLL	5.14	152	eP	30	54.00	1.2
			(S)	31	57.50	
CFA	5.48	152	eP	31	02.00	4.6X
PEL	6.35	176	eP	31	15.00	5.6X
MRA	7.40	140	e(P)	31	23.00	-0.7
MOCB	7.54	44	P	31	26.50	0.4
RFA	8.31	164	e(P)	31	36.00	-0.1
CNCB	10.39	18	P	32	05.00	0.3
LPB	10.63	17	eP	32	11.00	3.3X
ZOBO	10.87	16	P	32	06.00	-5.1X
VAO	22.35	86	eP	34	26.50	-0.2
S.D. = 1.0	on	9 of	13 obs.			

MAY 30, 1993 22h 34m 03.89± 0.67s
0.621 S ± 3.9km 124.208 E ± 5.1km
DEPTH = 74.9 ± 6.0 km
5.6mb (53 obs.)
SOUTHERN MOLUCCA SEA (269)
Mw 5.7 (HRV).
CENTROID, MOMENT TENSOR (HRV)
Doto Used: GDSN
L.P.B.: 45S, 86C
Centroid Locotion:
Origin Time 22:34· 5.7 0.2
Lat 0.92S 0.03 Lon 124 50E 0.03
Dep 36.3 2.3 Half-durotion 1.8
Moment Tensor; Scole 10**17 Nm
Mrr= 1.75 0.06 Mtt=-0.46 0.09
Mff=-1.29 0.11 Mrt= 4.08 0.22
Mrf= 0.16 0.13 Mtf= 0.38 0.08
Principol Axes:

T	Vol= 4.89	Plg=52	Azm=355
N	-1.29	6	92
P	-3.60	37	186

Best Double Couple:Mo=4.2*10**17
NP1:Strike=309 Dip=10 Slip= 127
NP2: 91 82 84

CTB	7.77	360	ePd	36	00.00	3.5X
DAV	7.78	10	eP-	35	56.80	0.2
TSM	7.99	308	iP	36	00.10	0.5
			eS	37	31.00	
CGP	9.03	3	iPc	36	15.50	1.7
KKM	10.37	310	ePd	36	32.00	-0.2
			eS	38	26.50	
PPR	11.68	332	ePc	36	52.00	2.4
PLP	11.73	4	ePd	36	52.50	2.1
MTN	13.95	151	eP	37	17.00	-2.5
0.5s	100.00nm				5.4mb	
TGY	14.98	348	iPc	37	35.00	2.0
QVP	15.47	348	eP	37	43.50	4.3X
KNA	15.69	164	eP	37	39.00	-2.9
BAG	17.30	348	ePc+	38	02.00	-0.3
			eS	41	35.00	
LEM	17.66	249	ePd	38	09.20	2.5
2.0s	1176.47nm				5.8mb	
Z	20s	10.64um			4.5MszX	
		eS		41	38.00	
		eLR		43	10.00	
CVP	18.36	353	eP	38	16.00	0.9
SZP	18.43	349	iPd	38	18.00	2.0
MBL	20.86	192	iPd	38	40.20	-1.7
1.2s	1200.00nm				6.1mb	
BBP	21.05	354	ePd	38	41.30	-2.5
KGM	21.05	277	ePc	38	45.50	1.7
			e	42	39.00	
WRA	21.61	153	P	38	49.50	0.0
WB2	21.62	153	eP	38	42.50	-7.1X
0.8s	25.70nm				4.7mb	
			i	38	46.40	
			eS	49	57.30	
KLM	22.86	279	eP	39	06.00	4.3X
IPM	23.73	283	ePd	39	14.00	3.8X
0.6s	33.70nm				4.9mb	
			e	46	31.00	
PMG	24.45	112	eP	39	16.00	-1.2
ASPA	24.76	158	iPd	39	19.40	-0.8
1.2s	149.40nm				5.3mb	
Z	23s	7.50um			5.1MszX	
		ePcP		42	56.90	
		eS		43	39.40	
		eScS		50	17.00	
GUMO	24.87	55	eP+	39	19.00	-2.2
1.6s	665.10nm				5.8mb	

| | | |

30d 22h

HRI	89.05	303	eP	46	53.20	0.7	FRB	116.32	6	ePKP	52	40.50	0.5	GUN	54.73	274	P	00	52.20	-1.0
OBN	89.13	325	iPc	46	51.60	-0.6	EMUT	116.64	45	ePKP	52	43.29	1.5		0.6s	15.00nm				5.2mb
	1.3s	231.00nm				6.3mb	SRU	117.13	46	ePKPc	52	43.81	1.2	KKN	55.21	274	P	00	56.00	-0.5
Z	22s	1.70um				5.4Msz				eSKP	56	16.23		PKI	55.26	274	P	00	56.00	-1.1
N	24s	1.70um					PV09	118.37	46	ePKP	52	47.01	1 8	DMN	55.44	274	P	00	57.60	-0.7
E	22s	1.10um					PV10	118.49	46	ePKP	52	47.01	1.7	GKN	55.49	275	P	00	57.80	-0.7
		eS		57	19.00		PV08	118.68	45	ePKP	52	47.64	1.8		0.8s	47.00nm				5.6mb
MML	89.31	302	eP	46	54.90	1.3	RSSD	119.15	38	ePKP	52	46.89	0.5	BGMT	60.94	54	eP	01	30.50	-6.0X
FBA	89.70	25	eP	46	54.00	-0.7	Z	22s		0.43um			5.0Msz	KAF	61.91	335	eP	01	42.90	0.4
SAGI	89.92	300	eP	46	56.60	0.1				eSKP	56	18.82		NUR	63.68	334	iP	01	54.20	0.0
KLU	90.48	29	iPc	46	59.04	0.6	TUC	119.44	53	PKP	53	00.00	12.9X		0.7s	10.40nm				5.1mb
CSS	91.07	305	eP	47	02.00	0.3	Z	19s		0.57um			5.2Msz	UPP	66.15	337	iP	02	10.60	0.5
CIR	92.24	249	iPd	47	25.00	17.7X	ULM	119.96	28	ePKP	52	51.00	3.6X				i	02	21.40	
MTD	92.34	253	eP	47	22.00	14.1X	GOL	120.47	43	ePKPc	52	50.49	1.4	NB2	66.64	341	P	02	13.00	-0.4
		i		47	56.40		Z	20s		0.39um			5.0Msz		0.9s	9.50nm				4.9mb
PUL	92.50	330	(P)	47	07.00	-0.6				eSKP	56	22.85		HFS	66.88	339	eP	02	15.00	0.2
Z	22s	1.80um				5.5Msz	GLD	120.55	43	ePKP	52	50.31	1.2		0.5s	8.60nm				5.1mb
N	20s	1.10um					Z	21s		1.40um			5.6Msz	Z	20s	1.70um				5.3Msz
E	20s	1.10um					ALQ	121.79	48	ePKP	52	53.39	1.7			LR		30	26.00	
KEV	93.08	340	eP	47	09.00	-1.2	Z	21s		0.11um			4.5Msz	DZM	71.17	167	iPc	02	42.90	1.2
SDF	93.58	337	iP	47	11.50	-1.1				eSKP	56	26.28		KSP	74.38	333	eP	03	00.50	0.3
KAF	94.25	332	iP	47	14.90	-0.8	JAQ	124.49	14	ePKP	52	56.00	0.0				e	03	12.00	
	0.9s	16.20nm				5.5mb	LTX	126.22	53	iPKPd	53	00.51	0.2	CLL	74.92	335	iP	03	03.80	0.5
KBS	94.81	350	eP	47	17.50	-0.6	OCO	127.98	43	iPKPc	53	07.50	4.2X		0.9s	14.00nm				5.0mb
BUL	95.04	250	iPc	47	23.90	3.5X	EEO	129.84	21	ePKP	53	10.50	4.0X				i	03	15.70	
		i		47	30.70		UYO	130.80	43	iPKPd	53	09.30	0.6	BRG	75.05	334	e(P)	03	04.70	0.6
SLR	95.08	244	iPc	47	35.40	14.9X	FVM	131.05	37	ePKP	53	09.65	0.6	PRU	75.66	334	eP	03	08.90	1.3
	0.9s	33.00nm					Z	22s		1.46um			5.6Msz				e	03	20.50	
Z	18s	4.06um				5.9Msz				ePP	55	24.36		KHC	76.71	334	eP	03	14.00	0.4
		e		51	13.70					eSKP	56	30.71			1.0s	3.50nm				4.3mb
INK	95.11	21	eP	47	21.00	1.5	MIAR	131.18	42	ePKP	53	11.46	2.1	Z	22s	1.20um				5.2Msz
	0.9s	7.00nm				5.1mb	Z	19s		0.59um			5.3Msz	N	22s	0.40um				
NUR	95.25	331	eP	47	21.40	1.1				eSKP	56	32.27		E	22s	1.20um				
SEK	95.51	242	eP	47	26.50	4.1X	GAC	131.87	18	ePKP	53	12.00	1.7				e	03	25.50	
LSZ	95.65	255	iPc	47	25.80	2.6X	ELC	132.23	36	ePKP	53	12.41	1.1	KBA	78.62	333	eP	03	25.00	0.7
		i		47	38.00					ePP	55	28.66		SKO	80.36	325	eP	03	33.50	0.0
		i		51	29.00		CBM	132.63	11	PKP	53	20.00	8.2X	SSF	81.28	339	eP	03	38.70	0.4
VRI	95.66	316	ePc	47	22.50	-0.1	Z	20s		0.60um			5 3Msz		1.0s	4.00nm				4.4mb
		e		57	57.00		RSNY	133.21	18	PKP	53	20.00	7.0X	AVF	81.57	339	eP	03	39.00	-0.8
PRY	95.73	243	eP	47	33.00	9.5X	Z	21s		0.40um			5.1Msz		1.0s	7.60nm				4.7mb
TRO	95.87	340	eP	47	21.90	-1.1	HRV	135.96	17	PKP	53	30.00	11.8X	SMF	81.59	339	eP	03	40.20	0.3
GRM	96.05	237	e(P)	47	33.00	8.3X	Z	21s		0.55um			5 3Msz		1.1s	8.80nm				4.7mb
SIT	96.22	33	eP	47	26.20	1.4	PAL	136.58	20	ePKP	53	20.06	0.6	LPL	81.92	337	eP	03	42.60	0.7
MLR	96.24	316	eP	47	26.00	0.6	MYNC	136.72	35	PKP	53	30.00	10.0X		1.0s	6.60nm				4.6mb
		e		50	39.50		Z	21s		0.46um			5.2Msz	LPG	81.93	337	eP	03	42.80	0.7
		e		57	57.00		CBN	137.66	25	ePKP	53	23.00	1.4		1.0s	7.20nm				4.7mb
KSR	96.31	244	eP	47	39.50	13.3X	GOGA	138.30	36	PKP	53	30.00	7.1X	MAF	82.29	340	eP	03	46.80	3.2X
	1.0s	40.00nm					Z	21s		0.69um			5.4Msz		0.8s	6.70nm				4.7mb
BLF	96.71	241	eP	47	33.50	5.6X	CEH	138.77	29	PKP	53	30.00	6.3X		S.D. = 0.9	on	25	of	28	obs.
SPC	99.58	320	e(P)	47	41.30	0.8	Z	19s		0.54um			5.3Msz	---						
		e(PP)		51	50.80		RTBS	145.38	159	ePKPc	53	38.00	2.7X		MAY 30, 1993 22h 54m 23.65± 1.22s					
		e		03	07.20		MRA	145.83	165	ePKPc	53	36.70	0.6		0.767 S ± 6.2km 124.162 E ± 8.3km					
OJC	99.68	321	eP	47	41.80	1.2	CFA	145.84	161	ePKPc	53	38.50	2.3		DEPTH = 81.1 ± 12.5 km					
HFS	100.64	332	ePdiff	47	42.80	-1.9	TCA	147.14	166	ePKPc	53	42.50	4.1X		4.8mb (14 obs.)					
	0.9s	10.50nm				5.5mb	RTPR	147.60	163	ePKPc	53	43.20	4.2X		SOUTHERN MOLUCCA SEA					(269)
NB2	101.51	333	Pdiff	47	46.80	-1.8	FSA	151.68	160	i(PKP)	53	54.00	8.6X							
	1.2s	11.70nm				5.4mb	RSTA	154.04	194	ePKP	54	03.60	14.8X	CTB	7.91	0	eP	56	23.00	4.9X
KSP	101.73	322	ePdiff	47	50.00	0.2				e	54	13.20					eS	57	17.00	
		e		52	05.60					e	54	26.80		DAV	7.93	10	eP	56	19.00	0.7
BRG	103.16	322	ePdiff	47	57.20	1.0	VAO	155.00	200	ePKP	53	53.70	3.5X	TSM	8.05	309	iPc	56	20.00	0.0
	1.3s	11.00nm				5.5mb	NNA	155.63	122	ePKP	54	03.00	11.8X		0.7s	434.50nm				6.3mb X
		e		52	07.00			1.3s	38.46nm					CGP	9.18	3	eP	56	38.00	2.6X
CLL	103.62	323	e(Pdif	48	14.00	15.9X	MOCB	156.23	157	PKP	53	55.30	2.9X	KKM	10.43	311	ePd	56	52.70	0.2
YKA	104.47	24	ePdiff	48	01.70	0.0	PPD	157.07	191	ePKP	53	51.60	-1.3		0.5s	58.10nm				5.8mb
	1.3s	2.40nm				5.0mb	CNCB	158.91	146	PKP	54	00.00	4.2X				e	58	53.30	
GRF	105.18	322	e(PKP)	52	33.00	13.7X	LPB	159.07	145	ePKP	53	59.00	3.2X	PPR	11.79	333	iPc	57	13.50	2.9X
Z	22s	1.20um				5.4Msz	Z	24s		0.78um			5.5MszX	PLP	11.88	4	ePc	57	13.00	1.2
BCAO	105.67	274	ePdiff	48	10.00	1.8				LR	50	08.00		MTN	13.85	150	eP	57	36.00	-1.7
	1.0s	10.00nm				5.8mb	ZOBO	159.27	145	iPKPc	53	56.30	0.1	PGP	14.53	347	ePd	57	50.50	3.9X
		id		48	25.50			1.3s	35.49nm						1.0s	152.00nm				5.2mb
BMW	105.84	42	ePKP	52	22.62	1.9				SKS	05	08.00		CVP	18.50	353	ePc	58	35.00	-1.2
WDC	107.92	47	PKP	52	40.00	15.2X				LR	50	16.00		MBL	20.70	191	iPc	59	00.20	0.6
Z	21s	0.80um				5.3Msz	CCH	159.41	151	PKP	54	15.00	19.0X	KGM	21.02	278	eP	59	04.50	1.7
SAO	109.72	51	PKP	52	40.00	11.7X	SIV	162.69	163	PKP	54	01.60	2.6X	WB2	21.51	153	iPc	59	05.50	-2.2
Z	20s	0.76um				5.3Msz	CAR	165.20	48	iPKP	54	02.00	0.4		0.9s	24.50nm				4.6mb
CMB	110.20	49	PKP	52	40.00	10.8X		S.D. = 1.3	on	160	of	213	obs.	IPM	23.72	283	ePd	59	30.10	0.8
Z	21s	0.64um				5.2Msz	---							ASPA	24.65	158	iPd	59	38.50	0.3
ISA	112.33	51	PKP	52	40.00	6.6X	•	MAY 30, 1993 22h 51m 24.37± 0.70s							1.7s	86.00nm				4.9mb
Z	21s	0.62um				5.2Msz		48.375 N ±13.0km 152.891 E ±12.2km						MEEK	26.27	191	eP	59	53.30	0.0
LPM	113.08	39	ePKP	52	36.20	1.5		DEPTH = 33.0km (normal)						NNT	27.64	299	eP	00	05.80	0.0
		e		53	21.00			4.8mb (13 obs.) 5.2Msz (2 obs.)						LOE	28.54	310	eP	00	13.00	-0.9
HVU	114.50	44	ePKP	52	39.04	1.5		KURIL ISLANDS					(221)	NST	28.82	306	eP	00	16.50	0.1
FCC	114.72	21	ePKP	52	43.50	6.4X								CTA	28.91	133	iPd	00	17.00	-0.3
DUG	115.08	45	ePKP	52	40.13	1.5	FBA	34.99	40	eP	58	09.26	-5.9X		1.0s	12.50nm				4.5mb
Z	20s	0.53um				5.1Msz	INK	40.37	33	eP	58	58.00	-2.1	FORT	30.08	173	eP	00	27.00	-0.5
MSU	116.17	47	ePKP	52	42.84	1.9	YKA	49.72	37	eP	00	13.50	-1.3	STK	35.06	154	iPc	01	10.50	-0.3
BW06	116.26	41	ePKP	52	41.20	0.3		0.7s	0.50nm				3.7mb X		0.7s	3.60nm				4.4mb

			i	01	40.30		BRT	2.91	302	P	49	17.17	0.7				iSn	51	42.00				
MAT	39.35	18	eP	01	46.00	-0.8	ATH	2.91	118	iPnc	49	16.00	-0.5	ALT	7.50	89	eP	50	21.00	0.0			
ARMA	39.37	141	iPc	01	48.80	1.7				eSn	49	47.00		RSM	7.52	310	P	50	21.20	0.1			
	0.8s	24.00nm			5.2mb		SRS	2.96	53	ePn	49	17.30	0.1	EYL	7.54	78	eP	50	10.00	-11.6X			
BWA	40.44	148	eP	01	59.10	3.3X				eSn	49	54.27		CRE	7.66	306	P	50	23.10	-0.2			
LZH	41.26	335	eP	02	01.00	-1.6	ROI	3.01	275	P	49	18.10	0.0	CEY	7.75	327	ePn	50	23.50	-0.9			
	1.8s	45.00nm			5.0mb		BDV	3.15	337	iPnc	49	19.72	-0.2				eSn	51	50.00				
			pP	02	08.00	24kmX				iSn	49	50.66		BRD	7.83	36	eP	50	33.00	7.6X			
			PP	03	40.00		TTG	3.18	344	iPnd	49	20.96	0.7				e	02	48.00				
CAN	41.43	149	eP	02	06.20	2.3				iSn	49	52.65		SFI	7.88	308	P	50	26.80	0.7			
HYB	48.40	294	eP	02	58.40	-1.5	KKB	3.19	38	iP	49	20.00	-0.4	ELL	7.91	106	eP	50	29.00	2.4			
GBA	48.44	289	P	03	02.00	1.9	GRI	3.19	261	P	49	20.29	-0.2	PGD	7.93	307	P	50	28.37	1.3			
QUE	62.47	305	eP	04	40.70	-0.5	TDS	3.20	276	P	49	21.50	0.9	LJU	7.96	329	ePn	50	26.10	-1.0			
MAIO	70.26	309	eP	05	29.00	-1.5	PVY	3.23	354	iPnc	49	23.28	2.1				eSn	51	54.50				
SDN	82.32	34	eP	06	37.83	0.3				iSn	49	56.55		VRI	7.96	33	ePd	50	28.50	1.3			
	0.6s	29.32nm			5.4mb		CSI	3.24	278	P	49	21.60	0.3	TRI	8.02	324	e(Pn)	50	26.30	-1.7			
NAI	87.34	269	iPd	07	08.00	4.1X	BAI	3.25	303	P	49	22.00	0.7				e(Sn)	51	53.30				
	1.0s	1090.00nm			6.9mb X		ACI	3.30	271	P	49	24.30	2.3	CFR	8.13	42	eP	50	30.00	0.5			
IMA	87.51	24	eP	07	03.96	0.5	VLI	3.30	143	ePn	49	21.20	-0.9				e	02	47.00				
	0.8s	2.48nm			4.4mb		MMB	3.33	47	iP	49	22.00	-0.5	FIR	8.17	305	e(Pn)	50	31.50	1.3			
OBN	89.22	325	eP	07	11.00	-0.6	CZI	3.36	269	P	49	25.20	2.4X	VOY	8.21	326	iPnd	50	29.80	-1.0			
	1.5s	42.00nm			5.4mb		HCY	3.40	335	iPnd	49	22.92	-0.5				eSn	51	59.00				
			e	07	53.00					iSn	49	56.15		SRO	8.57	350	eP	50	35.90	0.3			
FBA	89.86	25	(P)	07	16.07	1.6	IVA	3.51	353	iPnd	49	26.92	1.9	PPE	8.62	35	eP	50	37.00	0.7			
	0.5s	0.80nm			4.2mb					iSn	50	03.15					e	02	49.50				
KAF	94.36	332	eP	07	33.40	-1.8	NKY	3.60	343	ePn	49	26.72	0.4	RBL	8.68	327	P	50	35.90	-1.2			
LSZ	95.56	255	iPc	07	43.90	2.1X				iSn	50	02.58		BDI	8.73	306	P	50	38.80	0.9			
	1.0s	0.50nm			4.0mb		SOI	3.68	251	Pc	49	26.10	-1.3	CLI	8.73	33	iPd	50	22.70	-15.2X			
SLL	100.82	332	ePdiff	08	02.40	-2.1X				eSn	50	09.80		VVI	8.86	321	P	50	38.36	-1.2			
	0.4s	0.70nm			4.6mb		GMB	3.79	253	P	49	28.13	-0.9	ZST	9.14	346	eP	50	41.90	-1.5			
YKA	104.63	24	ePdiff	08	34.90	13.5X	BRY	3.80	338	iPnd	49	28.84	-0.3	FVI	9.14	325	P	50	42.80	-0.6			
	0.8s	0.30nm								iSn	50	06.34		PGF	9.23	294	eP	50	44.90	0.1			
PV09	118.50	46	ePKP	13	06.23	1.8X	VTS	3.82	32	iPd	49	30.00	0.5		1.0s	19.40nm				5.1mb			
RSSD	119.29	38	ePKP	13	06.32	0.7	MGR	3.85	283	P	49	30.40	0.6	KBA	9.28	328	iPc	50	44.00	-1.5			
ALQ	121.92	48	ePKP	13	11.83	1.0	RZN	3.98	53	iP	49	31.00	-0.7				i	50	44.70				
MOCB	156.11	157	PKP	14	22.40	11.2X	PLE	4.02	349	iPnc	49	33.24	1.0				iS	52	25.30				
CNCB	158.82	146	PKP	14	18.00	3.3X				iSn	50	14.27		CTI	9.29	319	P	50	43.10	-2.5X			
LPB	158.98	145	(PKP)	14	13.00	-1.7X	ATN	4.09	254	P	49	31.40	-1.7				eSn	52	23.50				
ZOBO	159.18	145	PKP	14	17.30	2.2X				eSn	50	19.60		SAL	9.61	314	P	50	49.40	-0.5			
S.D. = 1.2 on 33 of 47 obs.							SGO	4.13	288	P	49	35.40	1.8	KIS	9.79	36	eP	50	51.00	-1 3			
----------							PLD	4.22	49	iP	49	35.00	0.1	Z	12s	1.90um							
MAY 30, 1993 23h 48m 31.63± 0.30s							PGB	4.23	40	iP	49	35.00	-0.1	BOB	9.79	307	P	50	53.70	1.2			
39.383 N ± 3.4km 20.457 E ± 1.9km							RDO	4.27	64	ePn	49	36.00	0.4	SPC	9.81	359	eP	50	53.20	0.5			
DEPTH = 54.8 ± 4.6 km							KDZ	4.41	57	iP	49	36.00	-1.6	WTTA	10.16	324	iPc	50	56.90	-0.7			
4.5mb (26 obs.)							PRK	4.51	90	ePn	49	40.00	1.0				i	52	48.10				
GREECE-ALBANIA BORDER REGION (392)							ALN	4.54	69	ePn	49	39.20	-0.2	OGA	10.17	320	eP	50	57.20	-0.5			
MD 4.2 (ATH).										eSn	50	33.87		SQTA	10.33	322	iPc	50	59.80	0.0			
							EZN	4.55	83	iPn	49	39.90	0.3	KHC	10.92	335	P	51	05.60	-2.1			
KEK	0.61	303	iPbc	48	43.10	-1.4	MNO	4.74	254	P	49	46.70	4.2X		1.0s	5.40nm				4.6mb			
SRN	0.61	325	iPgd	48	43.80	-0.7	MEU	4.91	244	P	49	41.65	-3.2X				e	51	11.00				
			iSg	48	53.80		PZI	4.96	243	P	49	40.88	-4.5X				e	51	23.50				
TPE	0.97	339	iPnd	48	52.00	2.7X	GIB	5.22	257	P	49	49.30	0.1				e	52	15.00				
			iSn	49	11.50		RFI	5.30	293	P	49	51.38	1.2				e	53	06.00				
VLS	1.21	175	ePn	48	49.00	-3.5X	PVL	5.31	42	iP	49	48.00	-2.2				e	55	00.00				
VLO	1.31	326	iPnd	48	57.00	3.1X	KGT	5.37	76	iPn	49	51.10	-0.1				e	55	14.50				
			iSn	49	18.00		SDI	5.57	297	P	49	55.10	1.1	CSS	11.18	109	eP	51	11.30	0.0			
KZN	1.37	47	ePn	48	55.00	0.2	JMB	5.57	54	iPc	49	53.00	-0.9				eS	53	13.80				
AGG	1.50	103	ePb	48	55.70	-0.9	FAI	5.73	251	P	49	55.80	-0.4	LPG	11.82	306	eP	51	19.40	-0.8			
			eSb	49	15.62		EDC	5.78	78	eP	49	56.00	-0.9		0.7s	4.65nm				4.6mb			
FNA	1.57	26	ePb	48	59.70	2.1X	BNT	5.82	78	eP	49	58.10	0.6	KSP	11.83	347	eP	51	20.00	0.1			
			eSb	49	21.02		DRA	6.00	27	eP	50	28.00	28.1X	LPL	11.84	306	eP	51	20.10	-0.3			
LIT	1.72	65	ePb	48	59.60	-0.1	DMK	6.07	64	eP	50	01.00	0.1		0.6s	4.35nm				4.7mb			
OHR	1.75	8	ePn	49	03.10	3.0X	AQU	6.12	301	P	50	02.60	1.0	BRG	12.37	340	eP	51	38.70	11.6X			
			i	49	06.90		KCT	6.14	79	eP	50	01.60	-0.4	MOX	12.87	334	eP	51	33.60	-0.1			
			i	49	30.20		CIN	6.24	104	eP	50	02.00	-1.4		1.1s	12.00nm				4.7mb			
			i	49	32.30		GZR	6.25	15	ePd	50	04.50	1.1				e	51	37.30				
TIR	2.01	347	iPnd	49	06.00	2.2X	DST	6.32	85	eP	50	05.00	0.4	BSF	13.00	315	eP	51	33.60	-2.0			
			iSn	49	38.00		CTT	6.35	71	eP	50	04.10	-0.7		0.6s	4.70nm				4.6mb			
LCI	2.15	297	P	49	04.80	-0.8	RDP	6.35	294	P	50	06.60	1.6	CLL	13.02	339	iPd	51	47.20	11.5X			
THE	2.29	56	ePn	49	09.20	1.5	RMP	6.38	295	P	50	06.20	0.9		1.3s	22.00nm							
			eSn	49	38.10		BUC1	6.47	38	eP	50	40.00	33.5X				eS	56	03.00				
PHP	2.30	360	iPnc	49	04.00	-3.8X				e	02	26.00		CDF	13.09	318	eP	51	35.90	-0.9			
LACI	2.32	346	iPnd	49	09.90	1.8	BUC	6.55	38	ePc	50	36.00	28.4X		0.8s	8.85nm				4.7mb			
			iSn	49	46.00		MNS	6.61	299	P	50	09.90	1.3	HAU	13.34	315	eP	51	38.70	-1.3			
VAY	2.52	39	iPn	49	12.00	1.1	ITU	6.77	73	eP	50	11.00	0.3		0.5s	3.30nm				4.4mb			
			iSn	50	44.50		CMP	6.79	28	ePc	50	15.00	4.0X	SMF	14.14	306	eP	51	49.90	-0.6			
KNT	2.58	46	ePn	49	12.40	0.7	ISK	6.79	73	eP	50	03.10	-8.0X	LBF	14.21	308	eP	51	50.90	-0.5			
			eSn	49	47.00		ASS	6.94	305	Pd	50	14.20	1.1		0.3s	1.15nm				3.9mb			
SKO	2.69	16	iPn	49	15.00	1.6	ARV	6.98	308	P	50	12.30	-1.4	LOR	14.41	309	eP	51	52.60	-1.3			
			iPg	49	20.50		KHL	7.15	96	eP	50	16.20	0.0		0.8s	5.25nm				4.1mb			
			i	49	24.40		VBY	7.22	330	ePn	50	16.20	-0.8	KIV	17.21	67	eP	52	34.30	4.5X			
			iSg	49	50.00					eSn	51	36.50			1.8s	47.00nm				4.3mb			
			i	49	55.00		ZAG	7.23	334	eP	50	16.00	-1.0	OBN	19.09	29	eP	52	51.00	-1.4			
			LR	50	09.00		PTJ	7.31	334	eP	50	16.10	-2.2	Z	16s	0.60um							
ULC	2.74	341	iPnc	49	14.60	0.6	ISR	7.31	36	eP	50	20.50	2.2	N	16s	0.60um							
			iSn	49	41.45		MLR	7.33	32	iPd	50	20.00	1.4	E	16s	0.60um							
SDA	2.76	345	iPnd	49	15.60	1.2	RIY	7.46	325	iPn	50	19.00	-1.3	GRS	19.97	81	eP	53	03.00	0.9			

30d 23h

	1.7s	20.00nm		4.2mb		CP2	2.23	12	eP	59 51.08	-0.4		ATN	4.10	254	P	01 50.02	-1.4
UPP	20.57	356	iP	53 07.10	-0.9		CRP	2.24	13	eP	59 49.91	-1.7		SGO	4.11	288	P	01 53.22	1.6
HFS	21.21	351	eP	53 13.60	-0.8X		CGLM	2.30	15	eP	59 51.78	-0.6		RDO	4.25	65	ePn	01 54.50	0.9
	0.4s	6.80nm		4.4mb			SVW	2.35	330	eP	59 51.52	-1.5		PRK	4.52	90	ePn	01 58.50	1.2
NUR	21.31	6	iP	53 14.50	-1.0		MPA	2.40	53	eP	59 53.09	-0.5		ALN	4.53	69	ePn	01 57.80	0.3
	0.4s	4.40nm		4.2mb			PMS	2.83	39	eP	59 58.43	-1.1		EZN	4.55	83	iPn	01 57.90	0.1
PUL	21.34	14	(P)	53 14.00	-1.7		PMR	3.22	37	eP	00 02.07	-2.9		MNO	4.75	253	P	02 01.09	0.3
EKA	22.43	323	P	53 28.00	1.4			32 obs ossocioted						HVAR	4.81	322	iPnc	02 00.90	-0.6
	0.9s	26.20nm		4.7mb													iSn	02 56.30	
NB2	22.43	348	P	53 26.80	0.1		MAY 31, 1993 00h 00m 49.55± 0.33s							MEU	4.93	244	P	02 00.35	-2.9X
	0.6s	11.20nm		4.5mb			39.425 N ± 3.2km 20.453 E ± 2.0km							PZI	4.97	243	P	01 59.31	-4.6X
KAF	23.04	7	iP	53 32.50	0.0		DEPTH = 36.4 ± 3.9 km							VAM	5.00	142	ePn	02 03.00	-1.2
	0.6s	9.20nm		4.4mb			4.7mb (36 obs.) 4.4Msz (2 obs.)							DUI	5.08	298	P	02 06.92	1.5
ARU	30.21	43	eP	54 38.00	-0.8		GREECE-ALBANIA BORDER REGION (392)							GIB	5.23	256	P	02 05.90	-1.6
SVE	31.41	43	ePd	54 48.80	-0.5		MD 4.6 (TTG), 4.3 (ATH).							RFI	5.28	293	P	02 09.35	1.2
	2.0s	40.00nm		4.8mb										KGT	5.36	77	iPn	02 07.60	-1.7
BCAO	34.83	183	iPd	55 19.50	0.1	SRN	0.57	323	iPg	01 00.80	-0.4		SDI	5.54	296	P	02 12.70	0.8
	0.8s	14.00nm		4.9mb					iSn	01 13.30			EDC	5.77	78	eP	02 14.00	-1.1
		ic	55 25.10			KEK	0.58	300	iPgc	01 00.90	-0.4		BNT	5.82	78	eP	02 16.10	0.4
FRU	40.37	67	eP	56 07.00	1.4	TPE	0.93	339	iPnd	01 10.20	3.9X		DRA	5.96	27	eP	02 25.00	7.3X
	2.2s	50.00nm		4.9mb		VLS	1.25	175	ePg	01 09.00	-1.8		DMK	6.05	64	eP	02 18.60	-0.4
GKN	53.59	82	P	57 48.00	-1.5	VLO	1.28	325	iPnc	01 14.20	3.1X		AQU	6.09	301	P	02 20.40	0.8
DMN	54.14	82	P	57 52.20	-1.5				iSn	01 36.20			KCT	6.14	80	eP	02 19.90	-0.4
KKN	54.18	81	P	57 51.40	-2.6X	KZN	1.34	49	ePb	01 12.00	-0.2		CIN	6.26	105	iPgc	01 29.00	-52.9X
PKI	54.39	82	P	57 52.20	-3.5X	AGG	1.51	105	ePb	01 14.30	-0.4					iSg	01 40.00	
GUN	54.58	81	P	57 54.40	-2.7X				eSb	01 33.91			DST	6.32	86	eP	02 22.90	0.0
ZAK	56.81	49	eP	58 13.00	0.6	FNA	1.53	27	ePb	01 17.10	2.1		RDP	6.33	294	P	02 23.20	0.2
	2.2s	17.00nm		4.7mb					eSb	01 37.12			CTT	6.34	72	eP	02 22.10	-0.9
BOD	59.53	38	eP	58 29.10	-2.2	OHR	1.71	9	iPn	01 21.20	3.7X		RMP	6.36	294	P	02 23.40	0.0
INK	70.87	350	eP	59 46.50	2.4X				i	01 23.70			BUC	6.52	38	ePc	02 26.50	0.9
YKA	72.24	340	eP	59 53.70	1.3				i	01 44.50			MNS	6.59	299	P	02 27.20	0.6
	0.9s	2.50nm		4.1mb					i	01 47.70			DEV	6.70	15	ePd	02 36.00	7.9X
IMA	74.78	358	eP	00 09.73	2.4	LIT	1.71	66	ePb	01 17.50	0.0		MTUR	6.73	29	ePd	02 30.50	2.0
	0.7s	1.98nm		4.2mb		TIR	1.97	347	iPnc	01 24.70	3.5		CMP	6.75	29	iPd	02 33.00	4.2X
RSSD	82.98	323	eP	00 55.91	3.7X				iSn	01 54.50			ITU	6.76	73	eP	02 30.00	1.1
	0.9s	4.30nm		4.5mb		LCI	2.13	296	P	01 23.30	-0.1		ISK	6.78	73	eP	02 28.00	-1.3
LRM	85.25	329	eP	01 07.00	3.2X	PHP	2.26	360	iPnc	01 22.50	-2.7		ASS	6.91	304	Pd	02 32.00	0.9
PV0B	89.47	323	eP	01 27.03	2.6	THE	2.27	57	ePn	01 27.20	1.7		ARV	6.96	308	Pc	02 30.80	-0.9
PV09	89.76	323	eP	01 28.43	2.7				eSn	01 55.80			VBY	7.19	329	ePnc	02 34.20	-0.7
PV10	89.81	323	eP	01 28.84	2.9X	LACI	2.28	346	iPnc	01 28.40	2 9X					eSn	03 57.00	
DUG	90.04	326	eP	01 29.78	3.0X				iSn	02 05.00			ZAG	7.19	334	iPnc	02 33.50	-1.3
	0.8s	2.74nm		4.6mb		VAY	2.49	40	iPn	01 30.40	1.8					iSn	03 54.00	
TUC	95.54	320	(P)	01 55.01	2.9X				iSn	02 04.40			PTJ	7.27	334	iPnc	02 34.40	-1.7
	0.7s	1.03nm		4.4mb		KNT	2.55	46	ePn	01 30.90	1.4					iSn	03 54.60	
S.D. = 1.1 on 137 of 170 obs.									eSn	02 03.02			ISR	7.28	36	ePd	02 38.50	2.3
& MAY 30, 1993 23h 59m 15.68s						SKO	2.65	16	iPnc	01 33.50	2.6		MLR	7.29	32	iPc	02 38.50	2.0
59.098 N 153.221 W									iPg	01 39.00			RIY	7.42	325	iPnc	02 37.30	-0.9
DEPTH = 82.7km									i	01 42.80						iSn	03 58.70	
SOUTHERN ALASKA (2)									i	01 46.00			RSM	7.49	309	Pd	02 38.80	-0.3
<AEIC>.									i	01 51.30			ALT	7.50	90	eP	02 40.00	0.5
									iSn	02 03.00			EYL	7.54	78	eP	02 35.00	-4.9X
									i	02 06.80			CRE	7.64	306	P	02 40.90	-0.4
AUI	0.26	336	eP	59 27.49	-0.7				iSg	02 10.00			CEY	7.72	327	ePnc	02 41.40	-0.9
			eS	59 36.46					LR	02 27.00						eSn	04 07.50	
AUE	0.27	344	eP	59 27.79	-0.5	ULC	2.70	341	iPnc	01 33.27	1.8		SFI	7.85	308	P	02 44.30	0.2
CDD	0.28	232	iP	59 27.47	-0.9				iSn	02 02.82			PGD	7.91	307	P	02 46.27	1.1
			eS	59 36.41		BRT	2.88	301	P	01 35.54	1.4		LJU	7.92	329	ePnc	02 43.50	-1.6
AUP	0.28	339	eP	59 27.94	-0.5	ATH	2.94	119	ePn	01 34.50	-0.4					eSn	04 10.00	
AUH	0.29	337	eP	59 27.90	-0.6	SRS	2.94	54	ePn	01 35.90	1.0		VRI	7.93	34	iPd	02 47.00	1.8
AUW	0.30	335	eP	59 27.97	-0.5				eSn	02 11.35			TRI	7.99	324	e(Pn)d	02 44.30	-1.7
AUL	0.31	339	eP	59 28.01	-0.5	ROI	3.01	274	P	01 36.70	0.7					e(Sn)	04 10.40	
OPT	0.56	360	iP	59 29.91	-0.5	BDV	3.11	337	iPnc	01 38.51	1.1		BUD	8.12	353	ePn	02 46.00	-1.9
			eS	59 40.60					iSn	02 11.89			FIR	8.15	305	e(Pn)	02 48.50	0.2
MCNL	0.58	279	iP	59 29.93	-0.7	TTG	3.14	344	iPnc	01 39.47	1.8					i(Sn)	04 41.80	
			eS	59 40.87					iSn	02 13.94			VOY	8.18	326	iPnc	02 47.30	-1.5
SYI	0.65	138	iP	59 30.62	-0.6	PVY	3.19	354	iPnc	01 41.59	3.0X					eSn	04 18.20	
			eS	59 41.60					iSn	02 17.47			SRO	8.53	350	iP	02 54.30	0.8
XLV	0.85	64	eP	59 33.08	-0.3	TDS	3.19	276	P	01 39.50	1.0		BMR	8.54	14	ePd	03 02.00	8.4X
PDB	0.85	325	iP	59 32.72	-0.7				eSn	02 16.10			PII	8.59	303	P	02 56.20	1.8
			eS	59 45.55		GRI	3.20	260	P	01 38.83	0.2		RBL	8.64	327	Pd	02 53.70	-1.4
ILIM	0.99	8	iP	59 34.20	-1.0	BAI	3.22	303	P	01 39.50	0.5					eSn	04 27.20	
CNPM	1.10	66	eP	59 36.21	-0.3				eSn	02 37.00			CLI	8.70	33	ePd	02 39.30	-16.6X
			eS	59 51.46		CSI	3.24	278	P	01 40.10	0.9		BDI	8.70	305	P	02 56.20	0.1
BRLK	1.37	60	eP	59 39.01	-0.8	ACI	3.29	270	P	01 42.50	2.5X					eSn	04 26.90	
			eS	59 56.87		VLI	3.34	143	ePn	01 40.00	-0.6		SOP	8.72	342	eP	02 55.00	-1.2
RDW	1.40	8	eP	59 39.63	-0.8	HCY	3.36	335	iPnc	01 41.60	0.7		VVI	8.82	321	P	02 56.22	-1.4
KDC	1.41	164	eP	59 39.33	-0.9				iSn	02 17.23			ZST	9.10	346	iP	03 00.60	-0.7
			eS	59 56.27		NKY	3.56	342	iPnc	01 45.12	1.3		FVI	9.10	324	P	02 59.80	-1.6
REF	1.42	10	eP	59 39.56	-1.1				iSn	02 23.71			PGF	9.21	293	eP	03 03.90	0.8
			eS	59 58.18		SOI	3.69	250	P	01 44.60	-1.1			0.8s	23.90nm			5.4mb X	
NCT	1.48	6	eP	59 40.61	-0.7				eSn	02 23.50			KBA	9.24	328	iPd	03 02.30	-1.2
DFR	1.52	10	iP	59 41.32	-0.6	BRY	3.76	338	iPnc	01 47.30	0.6					i	03 02.70	
NKA	1.93	30	eP	59 47.95	0.8				iSn	02 27.36						i	04 35.90	
SLKM	2.07	46	eP	59 48.63	-0.6	GMB	3.80	252	P	01 46.95	-0.4					iS	04 43.90	
CYL	2.15	11	eP	59 49.83	-0.5	MGR	3.84	282	P	01 48.80	1.0		CTI	9.26	318	P	03 01.60	-2.1
SPU	2.17	15	iP	59 49.94	-0.6	PLE	3.98	349	iPnc	01 51.82	2.0					eSn	04 38.50	
BGL	2.21	10	eP	59 51.07	-0.1				iSn	02 35.24			VKA	9.33	343	eP	03 04.00	-0.6

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                    LR    07 26.00
SAL      9.58 313 P       03 07.10  -1.0
KIS      9.76  36 eP      03 08.00  -2.4
      Z  12s      2.80um
KMR      9.76 334 iP+     03 09.40  -1.1
BOB      9.76 307 P       03 11.00   0.3
SPC      9.76 359 eP      03 12.30   1.6
SCE      9.92 323 eP      03 11.70  -1.3
BHG      9.94 329 eP      03 12.20  -0.8
         0.9s    41.00nm          5.7mb X
WTTA    10.12 324 iPd     03 14.40  -1.3
                  i       03 15.00
                  i       04 57.50
                  i       05 07.20
OGA     10.13 320 eP      03 14.40  -1.4
WATA    10.21 324 iPd     03 15.90  -0.9
                  i       03 16.70
SOTA    10.29 322 iPd     03 17.10  -0.8
                  i       03 17.90
                  i       04 57.10
                  i       05 10.40
CKI     10.35 303 P       03 20.80   2.1
MOTA    10.43 322 iPd     03 18.90  -1.0
         0.8s    81.20nm          6.0mb X
OSS     10.46 317 ePd     03 20.40   0.1
SAOF    10.66 299 P       03 23.52   0.5
VDL     10.70 315 ePc     03 23.80   0.2
SBF     10.70 299 eP      03 21.20  -2.3
         0.9s    27.85nm          5.5mb X
VAI     10.74 311 P       03 23.40  -0.5
AURF    10.78 299 P       03 25.82   1.1
OJC     10.80 358 eP      03 24.90   0.1
TMA     10 81 312 iPc     03 24.60  -0.5
KHC     10 88 335 P       03 23.50  -2.3
         1.0s    10.50nm          5.0mb X
                  e       03 42.20
                  e       03 52.40
                  e       05 25.00
                  e       05 50.00
                  e       06 15.50
                  e       06 28.50
TOUF    10.88 299 P       03 27.03   0.9
FUR     10.96 326 eP      03 25.20  -1.8
DOI     11.06 302 P       03 29.50   1.0
ORO     11.09 308 P       03 26.00  -2.8X
WET     11.12 333 eP      03 26.50  -2.7X
FRF     11.15 296 eP      03 29.20  -0.3
         0.8s    11.55nm          5.1mb X
LMR     11 18 295 eP      03 29.30  -0.7
         1.0s    17.80nm          5.2mb X
LLS     11.19 315 ePd     03 32.00   1.7
CSS     11.19 109 eP      03 30.80   0.6
MMK     11.32 310 ePc     03 34.20   2.2
LRG     11.32 295 eP      03 31.00  -0.8
         0.9s    21.80nm          5.3mb X
      Z  17s      0.73um          4.8Msz
PRU     11.36 340 P       03 30.80  -1.6
                  e       04 55.00
                  e       06 06.50
SIM     11.54  57 eP      03 35.00   0.2
DIX     11.66 309 ePd     03 37.40   0.7
KSP     11.79 347 ePd     03 37.30  -0.8
LPG     11.79 305 eP      03 35.30  -3.3X
         0.5s    16.45nm          5.4mb X
LPL     11.81 305 eP      03 35.20  -3.6X
         0.6s    15.60nm          5.3mb X
ZLA     11.89 317 ePd     03 41.80   2.2
EMS     11.95 308 ePc     03 42.10   1.6
RSL     11.96 306 P       03 40.21  -0.4
SLE     12.02 318 ePd     03 41.60   0.3
GRF     12.18 330 ePn     03 40.30  -3.1X
BRG     12.33 340 eP      03 43.50  -1.8
         1.0s    12.00nm          5.0mb X
                  e       03 57.00
FEL     12.34 317 eP      03 44.07  -1.6
LOMF    12.67 313 P       03 48.83  -1.3
MOX     12.83 334 eP      03 49.80  -2.2
         1.0s    44.00nm          5.5mb X
BSF     12.97 315 eP      03 50.10  -3.9X
         0.7s    14.65nm          5.1mb X
CLL     12.98 339 eP      03 53.00  -1.0
                  i       04 05.80
                  eS      08 13.00
CDF     13.06 318 eP      03 52.60  -2.6X
         0.9s    18.65nm          5.1mb X
LANF    13.16 321 P       03 53.07  -3.3X
HAU     13.31 315 eP      03 55.90  -2.5X

         0.4s    11.15nm          5.2mb X
      Z  21s      0.25um          5.2Msz
VITF    13.63 315 P       04 02.68   0.0
TNS     13.73 326 ePnd    04 03.40  -0.6
                  ec      04 14.60
                  ec      04 25.50
SMF     14.12 306 eP      04 07.70  -1.3
         0.8s    14.50nm          4.7mb
LBF     14.18 308 eP      04 07.80  -2.1
         0.4s     4.60nm          4.5mb
LOR     14.38 308 eP      04 10.50  -1.9
         0.6s     8.30nm          4.5mb
      Z  21s      0.30um          6.0Msz
WLF     14.42 320 Pc      04 21.00   8.1X
AVF     14.48 306 eP      04 13.10  -0.7
         0.8s    10.75nm          4.4mb
SSF     14.50 307 eP      04 12.90  -1.1
BGF     14.71 305 eP      04 15.50  -1.3
MAF     14.76 303 eP      04 16.60  -0.9
         0.9s     8.50nm          4.1mb
ENN     15.26 323 eP      04 25.00   1.1
         1.0s    40.00nm          4.6mb
                  e       04 31.00
DOU     15.48 319 P       04 32.70   6.0X
         0.9s    40.00nm          4.6mb
WTS     15.74 327 eP      04 36.00   6.0X
         0.8s     9.80nm          4.0mb
                  e       04 42.50
SNF     15.89 320 P       04 37.50   5.5X
EGRA    15.97 287 eP      04 32.70  -0.3
ECHE    16.53 277 eP      04 44.90   4.6X
MFF     16.66 302 eP      04 44.20   2.4
         1.1s    45.40nm          4.5mb
KIV     17.20  68 eP      04 49.20   0.5
         1.5s    39.00nm          4.3mb
ETOR    17.27 282 eP      04 52.30   2.7
ECRI    17.61 288 eP      04 55.50   1.8
FLN     17.65 309 eP      04 54.60   0.5
         1.0s    21.80nm          4.2mb
      Z  20s      0.40um          6.0Msz
LPF     17.71 306 eP      04 54.90   0.0
         1.2s    31.55nm          4.3mb
GRR     17.73 307 eP      04 55.40   0.3
EVIA    17.85 275 eP      04 58.70   1.9
GUD     18.87 282 eP      05 10.30   0.9
EBAN    18.93 274 eP      05 10.00   0.1
OBN     19.05  29 eP      05 08.70  -2.5
      Z  18s      1.20um
      N  18s      1.20um
      E  18s      0.70um
                  eS      08 43.00
GRO     19.31  70 eP      05 15.00   0.7
ELUO    19.43 272 eP      05 14.80  -1.0
MOS     19.92  29 eP      05 18.00  -2.8
         1.9s   130.00nm          4.9mb
      Z  14s      1.30um          6.3Msz
                  e       05 27.00
GRS     19.97  82 eP      05 17.00  -4.6X
                  eS      09 08.00
EHOR    20.13 274 eP      05 22.50  -0.6
TAB     20.21  86 eP      05 22.00  -2.2
EPRU    20.32 271 eP      05 24.30  -0.9
EPLA    20.39 280 eP      05 27.40   1.5
UPP     20.53 356 iPc     05 25.20  -1.9
EJIF    20.64 270 eP      05 27.00  -1.5
HFS     21.16 351 eP      05 31.90  -1.7
         0.5s    24.30nm          4.8mb
      Z  16s      0.31um          3.8MszX
                  LR      13 54.00
NUR     21.27   6 iP      05 32.40  -2.3
         0.4s    11.20nm          4.6mb
PUL     21.30  14 ePd     05 33.00  -1.9
         1.6s   110.00nm          5.0mb
      Z  18s      0.90um          4.2Msz
      N  18s      0.60um
      E  18s      0.50um
                  e       05 58.00
EVAL    21.34 274 eP      05 36.20   0.6
KONO    21.38 345 iPc     05 35.30  -0.5
NB2     22.39 348 P       05 45.70  -0.2
         0.6s    26.70nm          4.9mb
EKA     22.39 323 Pc      05 46.20   0.3
         0.9s    64.50nm          5.1mb
EBL     22.60 324 eP      05 49.00   1.1
EDI     22.75 324 eP      05 50.70   1.3
EAU     22.82 324 eP      05 51.30   1.2
KAF     23.00   7 iP      05 50.50  -1.3

         0.6s    16.10nm          4.7mb
EDU     23.05 326 eP      05 52.80   0.4
         1.1s    77.00nm          5.1mb
ELO     23.31 325 eP      05 55.90   1.0
MOL     24.46 346 eP      06 04.46  -1.5
KAT     27.60  79 eP      06 36.00   0.7
                  eS      11 18.00
ASH     29.48  81 eP      06 51.00  -1.3
ARU     30.19  43 eP      06 57.00  -1.4
         2.0s    50.00nm          5.0mb
SVE     31.38  43 ePc     07 07.00  -1.9
         1.9s    60.00nm          5.1mb
                  e       08 28.00
BCAO    34.87 183 iPd     07 37.10  -2.5
         0.6s     8.00nm          4.8mb
                  ic      07 48.20
KIC     39.98 221 P       08 22.00  -0.5
LIC     40.25 221 P       08 24.00  -0.6
FRU     40.35  67 eP      08 24.60  -0.7
         2.2s    80.00nm          5.1mb
                  e       10 06.00
NRI     45.91  27 ePc     09 12.00   2.1
         1.9s    86.00nm          5.4mb
                  e       09 18.00
GKN     53.58  82 P       10 05.40  -4.1X
DMN     54.14  82 P       10 10.40  -3.3X
KKN     54.18  81 P       10 10.20  -3.7X
GUN     54.58  81 P       10 14.00  -3.0X
FRB     55.07 327 eP      10 20.00   0.3
TIK     58.51  21 eP      10 44.00  -0.1
         1.8s    40.00nm          5.2mb
      Z  18s      0.50um          4.7Msz
JAQ     62.63 318 eP      11 12.50   0.2
FCC     68.15 329 eP      11 55.00   7.3X
INK     70.83 350 eP      12 04.50   0.6
         1.0s     2.00nm          4.1mb
ILT     72.03   7 iPd     12 06.40  -4.7X
YKA     72.20 340 eP      12 11.60  -0.7
         1.0s     4.60nm          4.4mb
ULM     74.67 323 eP      12 31.00   4.2X
IMA     74.74 358 eP      12 27.88   0.7
         1.0s     4.31nm          4.4mb
FBA     75.60 355 eP      12 32.93   1.0
         0.7s     1.86nm          4.2mb
TTA     77.95 358 eP      12 46.39   1.3
         1.8s    15.34nm          4.7mb
KLU     78 82 353 eP      12 50.44   0.5
BALM    78.91 352 eP      12 51.11   0.6
FVM     80.24 311 eP      12 59.30   1.4
         0.6s     6.59nm          4.8mb
RSSD    82.94 323 eP      13 13.23   1.0
         1.0s     7.12nm          4.7mb
MIAR    84.45 311 eP      13 21.86   2.1
         1.1s    10.27nm          4.9mb
NEW     84.92 333 eP      13 23.30   1.4
         1.1s     9.37nm          4.9mb
LRM     85.22 329 ePc     13 25.30   1.6
DPW     85.63 334 eP      13 26.97   1.4
DAU     89.14 325 eP      13 44.03   1.0
PV08    89.43 323 eP      13 45.24   0.8
PV09    89.72 323 eP      13 46.48   0.7
PV10    89.78 323 eP      13 47.46   1.5
SRU     89.87 324 eP      13 46.02  -0.3
DUG     90.00 326 eP      13 47.91   1.1
         0.9s     4.86nm          4.8mb
MSU     91.10 325 eP      13 53.62   1.6
LTX     94.08 314 eP      14 05.52  -0.1
      S.D. = 1.3  on 215 of 252 obs.
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*  MAY  31, 1993  00h 05m 27.51± 0.72s
   28.713 N ±16.5km   55.561 E ± 7.8km
   DEPTH =  33.0km  (normal)
   4.1mb (  8 obs.)
 SOUTHERN IRAN                    (353)

MAIO     8.26  23 ePn    07 03.00 -25.1X
                  eSn     08 25.00
OUE     10.04  79 eP      07 53.60   0.9
                  eS      10 57.20
HRI     17.59 290 eP      09 32.30   0.5
JVI     17.74 285 eP      09 33.60   0.0
PRNI    17.97 280 eP      09 41.70   5.2X
KHC     37.88 314 P       12 43.50   0.4
         0.9s     3.00nm          4.2mb
                  e       12 48.00
LPG     41.70 307 eP      13 14.40  -0.7
         0.7s     3.00nm          4.1mb
```

31d 00h

LPL	41.72	307	eP	13	14.50	-0.6
HFS	42.17	330	eP	13	18.30	0.0
	0.5s		1.00nm			3.8mb
BCAO	42.62	242	ePc	13	23.60	1.0
	0.6s		6.00nm			4.5mb
			id	14	55.40	
NB2	43.68	330	P	13	30.70	0.0
	0.7s		0.80nm			3.6mb
SSF	44.11	309	eP	13	34.00	-0.3
	0.9s		5.90nm			4.4mb
YKA	88.77	355	eP	18	19.30	0.4
	0.8s		1.10nm			4.2mb
WRA	90.07	113	P	18	24.00	-1.7
	0.5s		0.40nm			3.9mb
	S.D. = 0.8		on 12 of 14 obs.			

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* MAY 31, 1993 00h 33m 47.92± 1.88s
36.606 N ±20.9km 70.936 E ±11.9km
DEPTH = 204.3 ± 25.1 km
3.8mb (8 obs.)
HINDU KUSH REGION, AFGHANISTAN (718)

QUE	7.22	209	eP	35	33.90	2.0
			eS	36	51.70	
MAIO	9.22	272	iPc	35	56.20	-1.8
NDI	9.51	144	iPd	36	02.00	0.4
	0.6s		56.67nm			5.1mb X
DMN	14.97	123	P	37	10.60	-0.5
	0.6s		32.00nm			4.9mb
KKN	14.98	122	P	37	11.00	-0.1
	0.4s		22.00nm			4.9mb
PKI	15.20	122	P	37	13.60	-0.4
GUN	15.32	120	P	37	15.20	-0.1
HFS	42.95	322	eP	41	27.50	-0.4
	0.4s		0.60nm			3.5mb
NB2	44.26	323	P	41	38.10	-0.3
	0.8s		1.30nm			3.5mb
MBC	67.23	3	eP	44	22.50	1.0
	1.0s		3.00nm			4.0mb
INK	73.81	9	eP	45	03.00	2.0
YKA	81.14	3	eP	45	41.50	0.3
	0.6s		0.70nm			3.6mb
WRA	82.09	122	P	45	46.80	0.0
	0.6s		0.60nm			3.5mb
WB2	82.10	122	eP	45	44.80	-2.1
	0.5s		2.40nm			4.2mb
	S.D. = 1.3		on 14 of 14 obs.			

? MAY 31, 1993 00h 52m 18.28± 5.36s
38.189 N ±23.9km 13.608 E ±37.2km
DEPTH = 10 0km (geophysicist)
SICILY (398)

GIB	0.39	121	P	52	26.10	-0.1
			eSg	52	28.20	
MNO	0.90	106	P	52	35.80	0.2
ATN	1.46	91	P	52	44.60	-0.1
MEU	1.51	136	P	52	45.50	0.0
SOI	1.93	93	P	52	54.60	3.1X
			eSg	53	18.10	
	S.D. = 0.3		on 4 of 5 obs.			

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* MAY 31, 1993 01h 00m 39.19± 0.54s
0.830 S ± 6.3km 124.091 E ±12.5km
DEPTH = 33.0km (normal)
4.7mb (5 obs.) 4.4Msz (1 obs.)
SOUTHERN MOLUCCA SEA (269)

MNI	2.38	18	ePd	01	15.50	-1.2
			eS	01	33.00	
CTB	7.98	1	eP	02	37.00	1.2
DAV	8.00	11	eP	02	36.00	-0.1
TSM	8.03	309	iP	02	38.00	1.5
CGP	9.24	4	eP	02	55.00	1.7
PLP	11.95	4	ePc	03	33.30	3.0X
MTN	13.83	150	eP	03	56.50	1.3
			e	05	28.00	
OCP	15.65	349	eP	04	19.00	-0.1
LEM	17.48	250	ePd	04	50.80	8.5X
BAG	17.48	349	eP	04	43.00	0.6
CVP	18.55	353	ePd	04	54.00	-1.5
MBL	20.63	191	eP	05	20.00	1.4
KGM	20.96	278	eP	05	26.00	4.0X
WB2	21.49	153	eP	05	25.60	-1.7
	0.7s		21.30nm			4.7mb
			epP	05	30.90	19kmX
			ePP	06	25.10	
			eS	09	35.10	
IPM	23.66	283	ePc	05	57.50	8.7X
	0.9s		37.10nm			4.9mb
ASPA	24.61	158	eP	05	55.90	-2.1
	1.3s		15.50nm			4.4mb
	Z 18s		1.10um			4.4Msz
			e	07	08.60	
			eS	10	50.20	
LOE	28.52	310	eP	06	33.20	-0.9
CHTO	31.49	310	eP	06	59.00	-1.4
STK	35.03	154	eP	07	31.70	0.7
	0.6s		2.00nm			4.2mb
LZH	41.28	335	eP	08	23.50	0.1
	1.6s		42.00nm			4.9mb
			sP	08	37.50	
CAN	41.42	149	eP	08	25.60	1.3
HYB	48.37	294	eP	09	19.50	-0.8
YAK	62.83	3	eP	10	59.00	-4.7X
	0.6s		84.00nm			6.0mb X
ZOBO	159.17	145	PKP	20	45.00	8.2X
			i	21	53.10	
	S.D. = 1.3		on 18 of 24 obs.			

MAY 31, 1993 01h 50m 49.44± 0.63s
39.255 N ± 5.3km 20.424 E ± 5.1km
DEPTH = 22.6 ± 4.2 km
3.3mb (2 obs.)
GREECE-ALBANIA BORDER REGION (392)
MD 3.2 (ATH). ML 3.4 (TIR).

KEK	0.67	314	iPbc	51	01.50	-0.8
SRN	0.70	332	ePg	51	02.80	-0.1
			iSn	51	12.80	
VLS	1.08	173	ePb	51	10.00	0.8
TPE	1.09	343	ePn	51	11.00	1.8
			iSn	51	28.00	
VLO	1.41	330	ePn	51	20.00	6.2X
			iSn	51	39.50	
KZN	1.48	44	ePb	51	14.80	-0.1
OHR	1.88	9	iPn	51	22.20	1.5
			i	51	25.50	
			i	51	47.00	
			i	51	49.30	
TIR	2.13	349	ePn	51	25.00	0.7
			iSn	51	54.50	
LCI	2.19	300	P	51	25.50	0.4
			eSn	51	48.00	
PHP	2.43	0	ePn	51	23.00	-5.5X
LACI	2.44	347	ePn	51	28.50	-0.1
VAT	2.64	38	iPn	51	31.00	-0.5
SKO	2.82	16	iPn	51	33.50	-0.6
SDA	2.88	346	ePn	51	35.20	0.3
BRT	2.95	304	P	51	36.50	0.5
			eSn	52	11.60	
ROI	3.00	277	P	51	37.70	1.0
TDS	3.19	279	P	51	40.00	0.7
			eSn	52	15.80	
BAI	3.30	305	P	51	40.00	-0.8
SOI	3.62	252	P	51	45.50	0.1
			eSn	52	23.00	
MGR	3.86	285	P	51	49.30	0.5
ATN	4.03	256	P	51	50.20	-1.1
			eSn	52	32.20	
SGO	4.14	290	P	51	52.70	-0.2
			eSn	52	35.40	
SDI	5.60	298	P	52	14.20	0.6
ARV	7.04	309	P	52	31.50	-2.3X
CTI	9.37	319	P	53	02.50	-3.7X
HFS	21.33	351	eP	55	32.70	-4.0X
	0.4s		0.70nm			3.4mb
NB2	22.55	348	P	55	45.60	-3.4X
	0.6s		0.60nm			3.3mb
	S.D. = 0.8		on 21 of 27 obs.			

% MAY 31, 1993 01h 56m 18.23± 2.01s
18.135 N ± 9.5km 67.003 W ±10.8km
DEPTH = 26.4 ± 16.5 km
MONA PASSAGE (89)

MGP	0.15	213	P	56	23.50	0.0
LRS	0.22	44	P	56	24.20	-0.1
PORP	0.36	103	P	56	26.40	0.2
APR	0.41	39	P	56	27.10	0.1
			S	56	33.10	
CLLP	0.41	98	P	56	27.20	0.2
SJG	0.81	91	iP	56	33.30	-0.4
			S	56	43.10	
CPD	1.04	95	P	56	37.00	-0.1
			S	56	51.00	
LPR	1.09	81	P	56	38.00	0.1
			S	56	52.00	
	S.D. = 0.2		on 8 of 8 obs.			

& MAY 31, 1993 02h 09m 53.72s
38.834 N 122.815 W
DEPTH = 1.7km
NORTHERN CALIFORNIA (36)
<GM-P>. MD 3.0 (GM).

GDXM	0.03	148	P	09	54.43	-0.1
GACM	0.05	316	P	09	54.84	-0.1
GGPM	0.07	198	P	09	55.38	0.1
GSGM	0.09	68	P	09	56.06	0.5
GPMM	0.10	278	P	09	56.04	0.2
GAXM	0.13	159	P	09	56.40	0.0
GMKM	0.14	9	P	09	57.22	0.7
SKG	0.20	230	P	09	58.18	0.4
GHVM	0.26	14	P	09	59.38	0.5
GHLM	0.26	322	P	09	59.13	0.2
NMTM	0.29	95	P	09	59.93	0.4
NSHM	0.35	153	P	10	00.92	0.1
GCWM	0.36	326	P	10	01.04	0.1
GHCM	0.38	233	P	10	01.68	0.5
FTR	0.41	221	P	10	02.43	0.5
GARM	0.46	74	P	10	04.93	2.1
NTYM	0.46	165	eP	10	02.51	-0.4
NCFM	0.51	178	P	10	04.78	0.8
GWRM	0.53	315	P	10	04.78	0.5
NTBM	0.59	189	P	10	06.94	1.4
LOC	0.69	173	P	10	07.34	-0.1
SNT	0.71	156	P	10	07.55	-0.3
GBDM	0.72	328	P	10	08.18	0.1
GVR	0.73	139	P	10	08.02	-0.2
GNAM	0.73	300	P	10	09.26	0.9
GCBM	0.78	315	P	10	09.63	0.4
KRKM	0.78	339	P	10	09.98	0.7
NOLM	0.79	179	P	10	10.07	0.5
OSUM	0.87	59	P	10	11.71	0.6
KFPM	0.93	330	P	10	10.31	-2.0
CPMM	0.94	160	P	10	12.52	0.1
CPIM	0.97	151	P	10	12.85	0.0
AGC	1.02	163	P	10	13.76	0.0
HMR	1.05	130	eP	10	14.49	0.3
JPRM	1.07	165	P	10	15.96	1.3
JSBM	1.20	164	P	10	17.82	1.0
ORV	1.25	54	(P)	10	17.89	0.2
SAC	1.29	166	P	10	19.20	0.8
JEGM	1.35	168	eP	10	17.90	-1.5
AODM	1.65	97	P	10	23.88	0.0
WDC	1.76	7	eP	10	23.74	-1.7
ARN	1.79	145	eP	10	24.67	-1.3
COE	1.81	150	eP	10	24.35	-1.9
KMPM	1.88	328	(P)	10	29.04	1.8
CMB	2.07	112	eP	10	27.73	-2.3
			eS	10	54.94	
LGPM	2.08	360	(P)	10	31.26	1.1
SAO	2.33	152	P	10	32.16	-1.6
MMPM	3.22	111	eP	10	46.35	-0.4
BONR	3.65	102	ePn	10	53.28	0.5
KVN	3.68	85	(Pn)	10	53.17	0.0
			ePg	11	01.33	
	50 obs. associated					

MAY 31, 1993 03h 13m 45.68± 0.28s
41.373 N ± 5.8km 142.129 E ± 4.6km
DEPTH = 64.5km (7 depth phases)
4.9mb (66 obs.)
HOKKAIDO, JAPAN REGION (224)

SHO	4.25	53	iPc	14	47.00	-2.4
	0.5s		180.00nm			
			eS	15	31.00	
YSS	5.66	4	eP	15	08.20	-0.9
	0.8s		20.00nm			4.5mb
			eS	16	12.00	
KUR	5.69	45	iPc	15	09.00	-0.6
	0.5s		150.00nm			5.6mb
	Z 14s		1.60um			4.1Msz
	N 14s		1.60um			
			e	16	12.50	
MAT	5.71	214	iPc	15	10.10	0.2
	0.5s		31.69nm			4.9mb
			eS	16	39.00	
SKR	13.42	41	iP	16	51.00	-3.6X

MGD 19.51 13 eP 18 08.00 -2.1
1.0s 40.00nm 4.7mb
SSE 19.72 245 Pc 18 11.50 -1.0
1.0s 13.00nm 4.2mb
YAK 21.98 344 eP 18 31.60 -3.7X
0.5s 82.00nm 5.4mb
Z 14s 0.80um 4.3MszX
N 15s 0.40um
e 20 32.00
CIT 22.13 308 eP 18 35.00 -2.0
SEY 22.41 12 eP 18 37.00 -2.5
BOD 24.23 322 eP 18 56.10 -1.1
0.6s 17.00nm 4.7mb
ZAK 28.23 302 iPc 19 33.70 -0.4
1.1s 16.00nm 4.6mb
LZH 30.16 273 eP 19 50.00 -1.8
ILT 33.87 25 iPd 20 21.50 -2.2
1.2s 30.00nm 5.1mb
NRI 39.44 333 iPd 21 10.00 -0.5
1.0s 27.00nm 5.1mb
TTA 41.59 37 eP 21 29.32 0.9
0.7s 1.75nm 4.0mb
SVW 41.77 40 eP 21 31.58 1.7
0.8s 6.10nm 4.4mb
IMA 42.71 33 eP 21 37.74 0.2
0.5s 2.82nm 4.3mb
CHTO 43.04 252 eP 21 41.10 0.5
CRP 43.44 40 eP 21 44.59 0.9
KDC 43.62 45 eP 21 44.78 -0.1
0.8s 7.34nm 4.5mb
PMS 44.70 40 eP 21 53.60 0.0
FBA 45.18 34 eP 21 57.14 -0.2
1.0s 12.35nm 4.7mb
KLU 46.40 39 eP 22 07.18 0.0
GUN 47.42 272 P 22 15.40 -0.6
KKN 47.93 272 P 22 19.60 -0.2
0.6s 32.00nm 5.5mb
PKI 47.95 272 P 22 19.40 -0.7
0.8s 34.00nm 5.4mb
DMN 48.16 272 P 22 21.40 -0.2
0.8s 32.00nm 5.4mb
BALM 48.18 39 eP 22 21.03 -0.2
GKN 48.30 273 P 22 22.20 -0.4
0.8s 48.00nm 5.5mb
INK 50.30 29 eP 22 38.50 1.4
0.5s 7.00nm 4.9mb
MBC 52.22 17 eP 22 51.50 -0.1
0.7s 3.00nm 4.4mb
YKA 59.80 32 eP 23 44.70 -1.3
0.5s 1.00nm 4.2mb
SDF 61.24 337 eP 23 55.00 -0.8
WB2 61.43 188 iPd 23 55.40 -2.1
0.6s 8.40nm 5.0mb
i 24 13.90 71km
WRA 61.43 188 P 23 55.70 -1.8
0.4s 3.70nm 4.9mb
DAG 61.51 355 iPc 23 56.40 -1.1
0.4s 11.02nm 5.3mb
GBA 62.18 264 P 24 03 00 0.3
0.5s 5.50nm 4.9mb
KAF 64.72 332 iP 24 17.70 -1.1
0.6s 13.80nm 5.1mb
ASPA 65.16 188 iPc 24 20.70 -1.2
0.4s 4.90nm 4.8mb
NUR 66.40 331 iP 24 28.60 -0.9
0.4s 19.70nm 5.4mb
KIV 68.51 310 ePc 24 44.10 0.8
1.1s 99.00nm 5.7mb
Z 16s 0.10um 4.1MszX
e 25 07.80 92kmX
GRS 69.00 304 eP 24 46.00 -0.4
0.7s 20.00nm 5.2mb
UPP 69.31 334 iP 24 46.80 -0.8
ORV 69.33 55 eP 24 48.08 -0.1
epP 25 06.13 67km
FCC 69.89 27 eP 24 57.00 5.8X
HFS 70.37 335 eP 24 53.10 -1.1
0 5s 14.30nm 5.2mb
Z 21s 0.05um 3.8Msz
LR 48 31.00
NB2 70.41 337 P 24 53.80 -0.7
0.6s 9.60nm 4.9mb
LRM 70.69 46 eP 24 57.00 0.3
FRB 72.43 14 eP 25 05.50 -0.9
0.7s 5.00nm 4.6mb
TNP 72.86 54 eP 25 10.25 0.5
0.7s 6.98nm 4.7mb

epP 25 28.35 67km
DUG 74.13 50 eP 25 17.56 0.6
0.7s 4.50nm 4.5mb
epP 25 34.68 62km
TPNV 74.18 55 (P) 25 16.92 -0.4
0.8s 13.32nm 4.9mb
BW06 74.25 47 eP 25 17.37 -0.3
0.5s 4.36nm 4.6mb
OJC 75.76 326 eP 25 26.80 0.9
SRU 76.17 50 eP 25 28.88 0.2
epP 25 46.50 64km
RSSD 76.25 43 eP 25 28.72 -0.3
0.7s 2.50nm 4.3mb
SPC 76.34 325 eP 25 30.40 1.0
KSP 76.71 328 eP 25 31.50 0.3
BRG 77.61 329 eP 25 35.90 -0.2
CLL 77.61 330 iPc 25 36.10 0.0
1.2s 23.00nm 5.0mb
eSg 30 46.00
PRU 78.08 328 P 25 39.20 0.5
1.1s 15.00nm 4.9mb
e 25 56.30 62km
eSg 30 19.90
SRO 78.22 325 eP 25 41.00 1.4
ZST 78.44 326 eP 25 41.30 0.5
MOX 78.67 330 eP 25 42.70 0.7
GLD 78.70 47 (P) 25 43.76 1.1
0.9s 5.22nm 4.5mb
KHC 79.14 328 P 25 45.50 0.9
0.9s 6.00nm 4.5mb
e 26 02.00 59km
EKA 79.23 341 P 25 46.00 1.1
1.0s 9.30nm 4.7mb
HRI 79.54 305 eP 25 48.10 1.0
GRF 79.59 330 iPc 25 48.00 1.0
1.1s 16.00nm 4.9mb
CSS 79.84 308 eP 25 48.90 0.3
JVI 80.69 304 eP 25 54.20 1.0
SKO 81.24 320 iP 25 56.50 0.6
RBL 81.30 327 P 25 55.90 -0.3
CDF 82.11 332 iPc 26 00.70 0.3
0.8s 5.25nm 4.6mb
OHR 82.21 319 eP 26 01.30 0.3
CTI 82.40 328 P 26 01.30 -0.7
MBH 82.46 303 eP 26 03.20 0.7
BSF 82.77 331 eP 26 04.30 0.5
HAU 82.78 332 eP 26 03.90 0.1
VAI 83.69 329 P 26 08.50 0.1
SFI 84.06 326 P 26 11.50 1.2
CRE 84.25 326 P 26 12.10 0.6
LOR 84.28 333 iPc 26 11.60 0.2
0.9s 10.95nm 4.9mb
BOB 84.34 328 P 26 12.30 0.5
FLN 84.38 336 eP 26 11.80 0.0
LDF 84.42 336 eP 26 12.10 0.1
0.7s 5.75nm 4.7mb
LBF 84.49 333 iPc 26 12.60 0.1
0.7s 6.50nm 4.8mb
SSF 84.58 333 iPc 26 13.20 0.3
0.9s 7.35nm 4.7mb
LSD 84.64 330 P 26 14.21 0.6
HYF 84.70 334 eP 26 14.30 0.8
LPL 84.75 330 iPc 26 14.80 0.7
0.8s 15.05nm 5.1mb
LPG 84.76 330 iPc 26 15.10 0.9
0.8s 20.40nm 5.2mb
GRR 84.82 336 eP 26 14.40 0.3
0.8s 10.90nm 5.0mb
SMF 84.83 333 eP 26 14.70 0.6
1.0s 16.80nm 5.1mb
RSP 84.86 330 P 26 14.62 0.1
AVF 84.87 333 iPc 26 14.90 0.6
0.9s 20.00nm 5.2mb
PCP 84.88 329 P 26 15.17 0.7
EEO 85.01 27 eP 26 17.50 2.5
BHB 85.12 330 P 26 14.17 -1.5
LPF 85.20 336 eP 26 16.60 0.7
RRL 85.24 330 P 26 16.64 0.1
BGF 85.24 333 iPc 26 16.80 0.6
0.8s 5.50nm 4.7mb
FIN 85.29 329 P 26 15.68 -0.9
ROB 85.35 329 P 26 16.00 -0.9
PZZ 85.47 330 P 26 15.95 -1.6
ENR 85.58 329 P 26 15.81 -2.3
MAF 85.63 333 iPc 26 19.30 1.1
0.9s 26.55nm 5.3mb
IMI 85.67 329 P 26 17.46 -1.0

TCF 85.70 333 iPc 26 19.30 0.8
1.0s 8.20nm 4.8mb
SBF 85.88 329 eP 26 18.70 -0.8
0.8s 19.50nm 5.3mb
LSF 85.96 334 iPc 26 20.60 0.8
0.9s 30.95nm 5.4mb
MFF 86.19 335 iPc 26 21.90 1.0
1.0s 20.40nm 5.2mb
RJF 86.79 333 ePc 26 24.80 0.9
1.1s 20.50nm 5.2mb
CAF 86.94 333 iPc 26 26.00 1.4
0.9s 19.50nm 5.3mb
GAC 87.03 25 eP 26 26.00 1.0
LTX 87.05 53 eP 26 24.92 -0.6
LFF 87.37 334 iPc 26 28.00 1.3
0.9s 17.05nm 5.2mb
LPO 87.45 333 iPc 26 28.30 1.2
0.8s 10.75nm 5.1mb
MIAR 88.76 43 eP 26 33.55 0.0
0.7s 2.00nm 4.5mb
ZOBO 143.88 55 PKP 33 16.00 -0.2
LPB 144.09 55 ePKP 33 18.00 1.6
CNCB 144.38 56 PKP 33 17.00 0.0
CCH 145.95 54 ePKP 33 22.00 2.6X
SIV 147.74 45 PKP 33 24.70 2.8X
S.D. = 1.0 on 120 of 125 obs.

MAY 31, 1993 03h 28m 32.86± 0.48s
47.241 N ± 5.2km 11.287 E ± 4.0km
DEPTH = 10.0km (geophysicist)
AUSTRIA (546)
ML 2.8 (FUR), 2.6 (GRF).

SQTA 0.06 249 iPgc 28 35.40 0.2
iSg 28 37.50
MOTA 0.16 310 iPgd 28 36.30 -0.4
iSg 28 39.50
WATA 0.22 64 iPgc 28 36.50 -1.2
iSg 28 40.00
WTTA 0.24 84 iPgc 28 37.20 -0.9
iSg 28 40.80
SCE 0.35 125 iPgd 28 39.10 -1.1
OGA 0.41 206 ePg 28 40.90 -0.5
iSg 28 47.00
FUR 0.93 360 iPgd 28 50.00 -0.6
BHG 1.18 65 ePg 28 56.00 1.1
FVI 1.21 122 P 28 55.00 -0.4
eSg 29 10.20
CTI 1.22 168 P 28 55.40 -0.2
eSg 29 09.10
KBA 1.41 96 iPgd 29 00.50 1.7
i(Sg) 29 21.40
LLS 1.61 257 ePc 29 05.10 3.5X
RBL 1.76 116 P 29 05.20 1.6
eSg 29 24.80
SLE 1.97 287 ePd 29 07.20 0.6
FEL 2.31 287 ePn 29 11.66 0.0
KHC 2.44 38 Pn 29 18.00 4.7X
Pg 29 22.00
Sn 29 40.70
Sg 29 47.40
GRF 2.45 359 ePn 29 18.80 5.2X
e(Pg) 29 24.20
eSg 29 49.90
S.D. = 1.0 on 14 of 17 obs.

? MAY 31, 1993 03h 34m 28.20± 3.87s
30.197 S ±32.2km 68.714 W ±25.1km
DEPTH = 33.0km (normal)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 1.15 169 iPd 34 48.70 0.6
S 35 06.00
CFA 1.46 164 eP 34 52.00 -0.6
S 35 12.70
RTBS 1.59 203 ePd 34 54.30 -0.1
S 35 16.40
RTPR 1.91 94 ePd 34 59.00 0.0
S.D. = 0.9 on 4 of 4 obs.

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* MAY 31, 1993 03h 40m 10.24± 1.32s
17.553 N ±15.3km 101.558 W ±10.3km
DEPTH = 33.0km (normal)
4.0mb (6 obs.)
NEAR COAST OF GUERRERO, MEXICO (58)

ACX 1.76 112 iPc 40 39.46 0.5

31d 03h

			iS	41	05.50	
III	2.15	67	iP	40	45.00	0.3
MRX	2.17	9	eP	40	45.98	1.3
CRX	2.56	44	(P)	40	53.00	2.3
			(S)	41	30.00	
CGX	2.80	320	(P)	41	01.66	7.8X
			(S)	41	41.17	
UNM	2.87	52	(P)	41	01.00	6.1X
			(S)	41	37.00	
PPM	3.17	61	iP	40	59.50	0.1
IIA	3.18	60	(P)	40	51.00	-8.1X
IIT	3.42	64	(P)	41	09.56	6.8X
			(S)	41	58.85	
IISM	4.22	70	(P)	41	18.58	4.7X
AGX	4.36	351	(P)	41	24.50	8.6X
OXX	4.64	95	(P)	41	19.80	-0.3
UYO	17.72	20	iPd	44	14.90	-1.2
MIAR	18.36	21	eP	44	21.87	-2.2
PV08	21.84	345	eP	45	02.70	0.5
GOL	22.32	352	eP	45	07.24	0.5
	0.8s		4.72nm			4.0mb
ARUT	22.70	335	eP	45	12.29	1.8
MSU	22.85	338	iPd	45	12.99	1.0
SRU	22.86	342	ePd	45	12.28	0.3
DUG	24.58	339	eP	45	29.49	0.9
	1.3s		3.62nm			3.8mb
RSSD	26.57	356	eP	45	45.94	-1.4
	0.7s		2.91nm			4.0mb
LRM	29.61	344	eP	46	14.50	-0.4
JAQ	41.35	23	eP	47	52.50	-2.0
YKA	45.81	352	eP	48	28.20	-2.3
	0.8s		1.70nm			4.0mb
INK	54.61	346	eP	49	38.00	0.5
	1.0s		2.00nm			4.1mb
MBC	59.44	355	eP	50	11.50	-0.2
	0.9s		4.00nm			4.5mb

S.D. = 1.4 on 20 of 26 obs.

MAY 31, 1993 04h 14m 10.39± 0.70s
39.264 N ± 6.4km 20.412 E ± 7.4km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
MD 3.0 (ATH).

KEK	0.65	314	ePb	14	23.00	-0 4
VLS	1.09	173	ePb	14	31.00	0.0
KZN	1.48	45	iPbd	14	37.00	-0.1
OHR	1.87	9	ePn	14	43.00	0.3
VAY	2.64	38	ePn	14	53.00	-0.7
SKO	2.82	16	ePn	14	57.00	0.7
ROI	2.99	277	P	14	58.90	0.1

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

MAY 31, 1993 05h 00m 45.04± 0.74s
34.088 S ± 6.8km 70.136 W ± 5.5km
DEPTH = 10.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)
MD 3.4 (SAN).

CHCH	0.46	290	iP	00	54.64	0.3
			iS	01	02.46	
PCH	0.56	326	iP	00	56.35	-0.2
			iS	01	05.38	
FCH	0.77	350	iPd	00	59.82	-0.5
			iS	01	12.69	
SAN	0.77	325	eP	00	59.99	-0.1
			iS	01	11.35	
TACH	0.80	303	iP	01	00.43	-0.1
			iS	01	12.66	
PEL	1.05	334	iPd	01	04.95	0.1
			iS	01	20.00	
LNV	1.07	277	iP	01	04.95	-0.2
			iS	01	20.25	
ROCH	1.33	326	eP	01	09.88	0.1
			iS	01	29.00	
LCCH	1.34	297	iP	01	09.61	-0.1
			iS	01	28.75	
JACH	1.45	345	iP	01	12.07	0.6
			iS	01	31.85	
RFA	1.54	117	ePc	01	12.60	0.0
			S	01	32.00	

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

MAY 31, 1993 05h 36m 59.56± 0.74s
37.647 N ± 6.2km 26.991 E ± 7.3km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)

ML 4.0 (ATH), 3.9 (ISK).

PRK	1.69	341	ePb	37	28.50	-0.8
KHL	2.11	71	iPn	37	36.20	0.7
EZN	2.24	347	iPn	37	33.50	-3.7X
DST	2.34	33	iPn	37	39.70	1.0
ELL	2.50	110	iPn	37	40.10	-0.9
KSL	2.58	125	iPnc	37	41.40	-0.6
ATH	2.61	278	ePn	37	39.00	-3.5X
NPS	2.63	205	ePn	37	42.50	-0.2
EDC	2.78	14	ePn	37	44.00	-0.9
BNT	2.80	15	ePn	37	44.00	-1.2
KCT	2.81	22	ePn	37	45.00	-0.3
ALT	2.83	59	ePn	37	47.00	1.3
BCK	2.87	93	ePn	37	46.50	0.3
YLV	3.45	32	ePn	37	55.00	0.5
CTT	3.67	17	ePn	37	57.00	-0.5
EYL	3.82	39	ePn	38	01.00	1.3
DMK	4.21	8	ePn	38	03.50	-1.7
VAY	5.02	318	ePn	38	23.00	6.4X
CSS	5.78	116	eP	38	34.00	6.6X
			eS	39	37.50	
OHR	5.91	308	ePn	38	31.50	2.2
SKO	6.08	317	ePn	38	36.00	4.4X
MLR	7.88	355	eP	39	53.50	56.5X

S.D. = 1.2 on 16 of 22 obs.

MAY 31, 1993 05h 56m 20.81± 0.50s
33.196 S ± 5.0km 70.136 W ± 3.9km
DEPTH = 10.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)
MD 3.6 (SAN).

FCH	0.18	224	iP+	56	25.12	0.0
			iS	56	28.29	
PEL	0.46	276	iP+	56	30.69	0.4
			iS	56	38.33	
SAN	0.51	240	eP	56	31.42	0.3
			iS	56	39.07	
PCH	0.53	217	iP	56	31.15	-0.4
			iS	56	40.32	
JACH	0.64	323	iP	56	33.76	0.0
			iS	56	43.68	
ROCH	0.77	287	iP	56	36.27	0.3
			iS	56	48.26	
TACH	0.81	236	iP	56	36.35	-0.2
			iS	56	48.14	
CHCH	0.85	210	iP	56	36.82	-0.5
			iS	56	49.42	
LCCH	1.23	257	iP	56	43.61	-0.1
			iS	57	01.18	
LNV	1.31	234	iP	56	44.54	-0.4
			iS	57	03.13	
RFA	2.10	139	ePc	56	58.00	1.5
			S	57	25.00	
MRA	3.81	79	e(P)	57	20.00	-0.8
TCA	5.05	70	iPd	57	38.20	-0.2

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

MAY 31, 1993 06h 12m 58.58± 0.48s
34.912 N ± 9.2km 139.249 E ± 7.1km
DEPTH = 33.0km (normal)
4.5mb (16 obs.) 4.5Msz (2 obs.)
NEAR S. COAST OF HONSHU, JAPAN (230)
Felt (IV JMA) at Atomi and Ito.

MAT	1.83	333	iPd	13	26.70	-1.6
			eS	13	50.00	
SHK	5.43	268	eP	14	17.90	-1.4
SSE	15.62	261	eP	16	38.00	0.1
Z	16s		1.30um			
N	10s		0.90um			
E	10s		0.70um			
			S	19	52.00	
MGD	26.30	13	eP	18	33.00	0.3
Z	15s		0.50um			4.2MszX
E	15s		0.30um			
			e	18	48.00	
BOD	28.42	332	eP	18	50.80	-1.1
LZH	28.75	283	eP	18	52.50	-2.9X
	1.5s		27.00nm			4.7mb
Z	18s		0.74um			4.3Msz
N	10s		0.60um			
			pP	19	06.00	54kmX
			sP	19	11.00	
TIK	37.19	355	eP	20	07.00	-0.9
	1.6s		26.00nm			4.8mb
Z	16s		0.50um			4.4MszX
			e	20	23.00	
			e	21	37.00	
ILT	40.69	23	eP	20	35.20	-1.9
	1.4s		11.00nm			4.4mb
NRI	44.33	337	eP	21	07.00	0.2
	1.6s		15.00nm			4.6mb
			e	21	14.00	
SDN	45.53	44	eP	21	16.08	-0.4
	0.8s		13.34nm			4.9mb
GUN	45.64	277	P	21	18.00	-0.2
KKN	46.17	277	P	21	24.00	1.7
GKN	46.61	277	P	21	27.20	1.5
TTA	48.16	34	eP	21	37.35	0.1
	1.3s		5.11nm			4.4mb
SVW	48.25	36	eP	21	38.50	0.5
	1.0s		13.18nm			4.9mb
IMA	49.40	30	eP	21	46.38	-0.5
	1.0s		2.33nm			4.2mb
RSO	49.65	37	eP	21	48.91	0.0
KDC	49.90	41	e(P)	21	50.00	-0.6
PMS	51.18	36	eP	21	59.50	-0.9
	0.9s		10.90nm			4.8mb
FBA	51.83	31	eP	22	05.50	0.3
	0.8s		6.37nm			4.6mb
KLU	52.91	35	eP	22	13.26	-0.2
WB2	54.75	186	eP	22	26.20	-1.0
	0.7s		3.80nm			4.5mb
WRA	54.75	186	P	22	25.40	-1.8
	0.7s		1.30nm			4.1mb
SVE	55.59	319	ePc	22	34.00	1.0
Z	16s		0.50um			4.7MszX
N	14s		0.40um			
E	14s		0.30um			
YKA	66.52	29	eP	23	45.10	-1.7
	1.1s		1.60nm			4.0mb
NEW	72.88	43	eP	24	27.00	0.9
	1.2s		4.55nm			4.3mb
HFS	75.28	335	eP	24	41.50	1.8
	0.5s		0.70nm			3.9mb
Z	17s		0.14um			4.3MszX
			LR	54	55.00	
NB2	75.45	337	P	24	42.40	1.7
	1.1s		4.90nm			4.4mb
LRM	76.89	43	eP	24	49.70	0.3
CLL	82.04	329	iPc	25	19.30	2.7X
SRU	82.13	47	eP	25	18.14	0.6
PV09	83.36	47	eP	25	25.37	1.3
KHC	83.41	328	eP	25	27.50	3.7X
PV10	83.50	47	eP	25	25.64	0.9
PV08	83.60	47	eP	25	26.83	1.4
BCAO	112.01	292	ePKPc	31	31.90	-0.8X
	0.8s		6.00nm			
			id	34	12.00	
ZOBO	149.27	60	PKP	32	35.80	-6.4X
Z	22s		0.11um			4.6Msz
			LR	48	44.00	
LPB	149.46	60	PKP	32	42.00	-0.2
CNCB	149.73	60	PKP	32	49.00	6.2X
CCH	151.42	59	ePKP	32	30.00	-15.0X

S.D. = 1.1 on 33 of 40 obs.

MAY 31, 1993 06h 58m 51.83± 0.71s
39.255 N ± 5.9km 20.475 E ± 6.5km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
MD 2.9 (ATH).

IGT	0.30	338	ePg	58	57.02	-1.0
			eSg	59	02.34	
KEK	0.70	311	ePb	59	06.00	0.4
VLS	1.08	175	ePb	59	12.00	-0.1
KZN	1.45	43	ePb	59	17.20	-1.0
AGG	1.46	99	ePb	59	18.62	0.3
			eSb	59	40.44	
FNA	1.68	24	ePb	59	21.90	0.5
			eSb	59	46.05	
OHR	1.87	8	ePn	59	25.20	1.0
GRG	2.25	40	iPn	59	29.78	0.1
PAIG	2.57	74	ePn	59	33.98	-0.1
VAY	2.61	37	ePn	59	42.30	7.5X
SKO	2.81	15	ePn	59	43.00	5.4X
OUR	2.91	67	ePn	59	38.82	-0.2

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

MAY 31, 1993 07h 35m 17.83± 0.70s
39.332 N ± 7.8km 20.468 E ± 3.1km

DEPTH = 16.2 ± 4.5 km
3.6mb (2 obs.)
GREECE-ALBANIA BORDER REGION (392)
ML 3.7 (TIR). MD 3.5 (ATH).

IGT	0.23	332	iPg	35 22.56	-0.6
			eSg	35 30.40	
KEK	0.64	307	iPbc	35 30.00	-0.2
SRN	0.66	327	iPgd	35 30.20	-0.2
			iSg	35 41.40	
TPE	1.02	340	ePn	35 32.20	-4.5X
			iSn	35 49.50	
AGG	1.48	101	ePb	35 43.72	-0.1
			eSb	36 07.00	
FNA	1.61	25	ePn	35 45.90	0.2
			eSn	36 12.50	
OHR	1.80	8	iPn	35 50.60	2.2
			i	35 54.50	
			i	36 13.60	
			i	36 16.50	
LCI	2.18	298	P	35 56.10	2.2
			eSn	36 25.00	
GRG	2.20	42	ePn	35 55.04	0.8
			eSn	36 28.00	
THE	2.32	55	ePn	35 56 40	0.6
PHP	2.35	360	ePn	35 48.00	-8.3X
			iSn	36 20.50	
LACI	2.37	346	iPnd	35 57.50	0.9
			iSn	36 36.00	
PAIG	2.55	76	ePn	35 58.68	-0.5
			eSn	36 36.32	
VAY	2.56	38	iPn	36 00.50	1.3
KNT	2 61	45	ePn	36 00.08	0.1
SOH	2 67	55	ePn	36 01.48	0.5
SKO	2 74	15	iPn	36 02.20	0.3
			i	36 11.00	
			i	36 15.80	
			e	36 35 00	
			iSg	36 39.50	
SDA	2 82	345	ePn	36 02 70	-0.2
OUR	2 88	69	ePn	36 04.16	0.3
BRT	2.94	303	P	36 07.20	2.5X
			eSn	36 45.20	
SRS	2.98	52	ePn	36 05.70	0.4
ROI	3 03	276	P	36 05.80	-0.2
			eSn	36 40.70	
TDS	3 21	277	P	36 11.60	3.0X
CSI	3.26	279	P	36 09.50	0.2
			eSn	36 52.80	
BAI	3 28	304	P	36 15.00	5.4X
CZI	3 37	269	P	36 11.30	0.6
SOI	3 67	251	P	36 10.60	-4.6X
			eSn	36 50.60	
MGR	3.87	284	P	36 18.10	0.1
ATN	4 08	255	P	36 19.90	-1.1
			eSn	36 57.60	
SGO	4 15	289	P	36 22.90	1.0
ALN	4.55	68	ePn	36 26.52	-1.1
HVAR	4.89	323	ePn	36 30.30	-2.1
			iSn	37 24.70	
DUI	5.14	299	P	36 36.00	0.0
SDI	5.60	297	P	36 43.80	1.3
VBY	7.27	330	ePn	37 03.50	-2.4X
			eSn	38 22.50	
PTJ	7 36	335	eP	37 03.10	-4.1X
CRE	7 70	307	P	37 11.80	-0.2
CEY	7.80	327	ePn	37 11.00	-2.3X
			eSn	38 36.00	
PGD	7.97	308	P	37 15.10	-0.8
VOY	8.26	326	ePn	37 16.70	-3.1X
			eSn	38 46 80	
HFS	21.26	351	eP	40 01.40	-3.8X
	0.4s		1.40nm	3.7mb	
EKA	22.47	323	P	40 16.00	-1.4
	2.7s		173.30nm	5.1mb X	
NB2	22.48	348	P	40 14.90	-2.6X
	0.5s		0.80nm	3.5mb	
ASPA	122 33	95	ePdiff	50 51.70	8.6X
	1.2s		5.30nm		

S.D. = 1.0 on 31 of 44 obs.

? MAY 31, 1993 07h 58m 15.28± 8.54s
10.950 N ±27.7km 62.572 W ±98.9km
DEPTH = 110.0km (geophysicist)
NEAR COAST OF VENEZUELA (97)
MD 3.2 (TRN).

TCE	0.84	107	iPnc	58 35.68	0.5
			iS	58 44.09	
TRN	1.19	105	iPnd	58 37.83	-0.9
			eS	58 47.74	
			iS	58 49.40	
TPP	1.27	120	eP	58 39.43	-0.3
			eS	58 55.89	
			e	58 59.12	
GRW	1.50	37	iPnd	58 42.50	0.0
			iS	58 58.01	
TBH	1.55	107	eP	58 43.80	0.7
			eS	59 00.76	

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

? MAY 31, 1993 08h 05m 04.04± 1.44s
31.929 S ±22.8km 68.842 W ±12.6km
DEPTH = 100.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTBS	0.58	297	iPd	05 20.30	-0.3
			S	05 32.10	
CFA	0.61	58	ePd	05 21.70	0.8
			S	05 36.00	
RTLL	0.68	28	ePc	05 22.00	0.5
			(S)	05 36.00	
RTPR	2.57	52	ePc	05 44.00	-0.7
MRA	2.70	101	ePc	05 46.30	-0.2

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

MAY 31, 1993 08h 20m 15.55± 0.93s
38.635 N ± 6.3km 20.465 E ± 9.6km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 3.0 (ATH).

VLS	0.47	168	iPbd	20 25.00	-0.1
IGT	0.90	353	ePg	20 31.36	-1.5
			eSg	20 46.40	
KEK	1.19	335	iPbc	20 38.00	0.2
			eSb	20 57.60	
AGG	1.51	75	ePb	20 42.90	0.3
			eSb	21 06.64	
LIT	2.15	46	ePn	20 52.00	0.1
			iSn	21 22.92	
FNA	2.26	18	ePn	20 53.08	-0.5
			eSn	21 24.20	
OHR	2.49	6	iPn	20 57.10	0.3
GRG	2.76	32	ePn	21 00.30	-0.3
PAIG	2.81	62	ePn	21 01.10	-0.2
			eSn	21 39.80	
VAY	3.13	30	ePn	21 13.60	7.8X
OUR	3.21	57	ePn	21 06.50	-0.4
			eSn	21 48.17	
SKO	3.42	12	ePn	21 12.00	2.1

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

? MAY 31, 1993 08h 25m 05.30± 1.65s
46.460 N ±18.1km 13.112 E ± 8.0km
DEPTH = 10.0km (geophysicist)
AUSTRIA (546)
ML 2.0 (VIE).

FVI	0.26	300	P	25 10.60	-0.3
			eSg	25 14.90	
RBL	0.32	93	P	25 11.90	0.0
			eSg	25 17.50	
KBA	0.64	14	iPgc	25 18.20	0.0
			iSg	25 28.90	
WTTA	1.29	309	iPgc	25 29.70	0.3
			iSg	25 47.30	

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

MAY 31, 1993 08h 34m 22.01± 0.16s
72.448 S ± 6.7km 174.838 E ± 6.6km
DEPTH = 10.0km (geophysicist)
5.3mb (23 obs.) 5.1Msz (23 obs.)
ROSS SEA (728)
Mw 5.5 (HRV). Believed to be the first instrumentally located hypocenter in this area.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 28S, 43C
Centroid Locotion:
Origin Time 08:34:28.3 0.3
Lat 72.12S 0 04 Lon 175.04E 0.16
Dep 15.0 FIX Half-duration 1.2

Moment Tensor; Scale 10**17 Nm
Mrr=-0.84 0.05 Mtt= 1.54 0.05
Mff=-0.70 0.08 Mrt=-1.14 0.19
Mrf= 1.29 0.15 Mtf= 0.20 0.05
Principal Axes:

	Val=	Plg=	Azm=
T	2.04	24	188
N	0.28	32	294
P	-2.32	48	68

Best Double Couple:Mo=2.2*10**17
NP1:Strike=233 Dip=35 Slip=-156
NP2: 123 77 -57

DRV	13.29	278	iP	37 33.50	0.5
			eS	39 49.50	
CSY	22.38	253	eP	39 25.60	4.4X
	0.8s		13.50nm	4.5mb	
			i	39 30.40	
			iS	43 23.30	
MAW	33.22	220	eP	41 02.00	1.6
	0.8s		22.99nm	5.2mb	
SNA	37.46	182	iPc	41 37.10	0.6
	1.1s		140.00nm	5.6mb	
TOO	37.94	321	iPd	41 43.00	2.1
	1.0s		70.00nm	5.4mb	
CNB	39.43	326	eP	41 50.60	-2.9X
	1.0s		31.00nm	4.9mb	
CAN	39.49	326	eP	41 54.90	1.0
			epP	42 02.20	25kmX
BWA	40.46	325	iPc	42 03.30	1.3
			ipP	42 10.80	25kmX
ARMA	43.87	331	eP	42 31.50	1.6
	1.2s		30.00nm	5.0mb	
STK	44.22	318	iPc	42 33.40	0.8
	1.0s		9.10nm	4.6mb	
			i	42 40.40	
ASPA	53.81	312	iPc	43 46.20	-0.5
	1.5s		29.00nm	5.1mb	
Z	23s		1.10um	4.9MszX	
			epP	43 52.90	22kmX
CTA	54.85	327	iPd	43 54.50	0.1
	1.3s		24.04nm	5.1mb	
			ipP	44 00.50	20kmX
			eS	51 34.00	
WB2	57.30	313	iPc	44 10.60	-1.4
	1.3s		9.00nm	4.6mb	
			i	44 17.50	
WRA	57.31	313	P	44 30.00	18.0X
	1.2s		3.80nm		
MBL	59.71	298	eP	44 28.00	-0.8
			e	44 34.00	
PEL	65.61	123	iPd	45 07.70	-0.2
RTBS	67.33	124	ePd	45 19.70	0.9
CFA	67.68	125	iPd	45 20.70	-0.4
RTLL	67.89	124	iPc	45 21.60	-0.8
RTRS	68.75	123	ePc	45 28.20	0.6
TCA	68.83	128	iPd	45 28.40	0.1
RTPR	69.36	126	ePd	45 31.10	-0.3
CYA	71.31	126	ePd	45 43.20	-0.2
CER	73.12	201	iPc	45 54.00	0.0
	1.5s		100.00nm	5.7mb	
SUR	73.92	203	iPc	46 00.50	1.7
	0.8s		92.00nm	5.9mb	
FRS	75.93	207	iPc	46 10.20	0.0
	1.0s		30.00nm	5.3mb	
BLF	76.44	208	iPc	46 13.50	0.2
	1.0s		40.00nm	5.5mb	
LEM	76.75	290	iPc	46 20.70	5.6X
POF	76.98	202	iPd	46 17.00	1.0
	0.4s		7.00nm	5.1mb	
SEK	77.01	209	iPc	46 18.90	2.5
	1.1s		90.00nm	5.8mb	
PRY	78.40	209	iPc	46 22.70	-1.4
	0.9s		33.00nm	5.4mb	
RSTA	78.69	140	eP	46 26.40	0.9
SLR	79.45	210	iPc	46 29.60	-0.2
	1.3s		40.00nm	5.3mb	
Z	22s		5.29um	5.8Msz	
KSR	79.53	209	iPc	46 29.50	-0.8
	1.2s		80.00nm	5.6mb	
PPD	80.77	137	eP	46 37.00	0.2
CCH	81.82	122	P	46 45.00	2.3
CNCB	81.89	121	iPd	46 44.90	1.6
LPB	82.12	120	iPd	46 45.40	1.0
	1.2s		181.25nm	6.1mb	
ZOBO	82.37	120	iPd	46 44.90	-0.9
	1.7s		239.83nm	6.0mb	
RIFB	83.44	140	iPd	46 51.70	1.0

31d 08h

			e	46	59.30			IMA	139.85	19	PKP	53	47.00	-3.2X		ERUA	149.85	177	ePKP	54	13.00	5.5X
WIN	84.03	201	iPd	46	55.00	1.2		ILT	140.17	4	ePKP	53	50.00	-0.5		CLI	150.03	228	ePKPc	54	13.50	5.8X
	1.5s	54.00nm				5.6mb			1.4s	18.00nm						ECRI	150.05	184	ePKP	54	19.40	11.5X
NNA	84.07	111	iP	46	55.20	1.3		EMM	140 25	99	PKP	53	50.00	-1.4		ARU	150.06	272	ePKP	54	13.00	5.6X
	1.2s	4.69nm				4.6mb		CBM	142.04	97	PKP	54	10.00	15.4X			2.0s	300.00nm				
SIV	84.42	127	P	46	56.10	0.5			Z 19s	0.57um				5.4Msz					e	54	18.50	
LSZ	89.72	212	iPd	47	22.00	0.4		LMN	142.06	101	ePKP	53	57.50	2.9X					e	54	24.50	
HON	95.32	25	P	47	50.00	3.2X		YKA	142.85	46	ePKP	53	50.50	-4.9X					e	57	52.00	
	Z 20s	0.24um				4.7Msz			0.6s	1.60nm						SALF	150.07	189	PKP	54	14.11	6.2X
TUC	115.95	65	PKP	53	20.00	14.2X		PYA	143.69	245	ePKP	53	55.00	-2.5X		PGD	150.24	205	PKP	54	12.80	4.5X
	Z 20s	0.54um				5.2Msz		KIV	143.72	245	ePKPc	53	56.00	-1.7		SFI	150.26	205	PKP	54	13.60	5.6X
ISA	117.08	57	PKP	53	20.00	12.2X			1.3s	72.00nm						BDI	150.56	203	PKP	54	12.60	4.0X
	Z 19s	0.70um				5.3Msz				e	54	03.60				REVF	150.59	199	PKP	54	13.92	5.3X
SAO	117.38	54	PKP	53	20.00	11.7X		EJIF	143.93	180	iPKPc	53	56.80	-1.3		CALN	150.65	198	PKP	54	15.19	6.3X
	Z 19s	0.43um				5.1Msz		SOI	143.94	209	PKP	53	56.80	-1.2		CDR	150.68	196	ePKPd	54	14.70	6.0X
LZH	118.60	299	ePKP	53	10.00	-0.8		ENIJ	144.42	184	ePKP	53	57.80	-1.2		SBF	150.71	199	PKP	54	15.04	6.2X
	1.5s	27.00nm						PAIG	144.44	220	ePKP	53	57.08	-1.8		IMI	150.71	199	PKP	54	14.64	5.8X
	Z 26s	0.67um				5.2MszX		EPRU	144 44	180	ePKP	53	58.00	-1.0		AURF	150.74	199	PKP	54	15.17	6.2X
		pP	53	19.00				INK	144 54	30	ePKPd	53	58.10	0.0		TOUF	150.88	199	PKP	54	15.48	6.2X
		i	54	25.00					1.0s	50.00nm						EMON	150.89	177	ePKP	54	15.80	6.7X
CMB	118.85	55	PKP	53	20.00	8.9X					pP	54	06.50			FIN	150.97	200	PKP	54	14.82	5.6X
	Z 19s	0.47um				5.1Msz		FCC	144.71	64	ePKPd	54	03.50	4.8X		ENR	151.07	199	PKP	54	15.79	6.4X
ALQ	119.63	68	PKP	53	20.00	7.1X		ECOG	144.75	182	ePKP	53	58.10	-1.5		ROB	151.09	200	PKP	54	15 33	5.9X
	Z 21s	0.35um				5.0Msz		OUR	144.78	220	ePKP	53	58.04	-1.3		STV	151.10	199	PKP	54	15.56	6.1X
WDC	120.74	52	PKP	53	20.00	5.5X		LIT	144.84	218	ePKP	53	58.40	-1.2		CKI	151.18	200	PKP	54	15.50	6.0X
	Z 20s	0.28um				4.9Msz		ELUQ	145.03	181	iPKPd	53	59.10	-0.9		PCP	151.27	201	PKP	54	15.47	5.8X
MSU	121.42	62	PKP	53	17.40	1.2		CZI	145.05	210	PKP	53	59.10	-0.8		VBY	151.33	211	e(PKP)	54	15.60	6.0X
PV10	122.13	64	PKP	53	16.80	-0.8		EVAL	145.05	178	iPKPd	54	00.00	0.0		DOI	151.36	199	PKP	54	15.70	5.9X
PV09	122.22	64	PKP	53	18.40	0.6		THE	145.26	219	ePKP	54	12.52	12.3X		PZZ	151.38	198	PKP	54	16.75	6.8X
SRU	122.42	63	PKP	53	18.40	0.4		EHUE	145.27	184	iPKPd	54	00.00	-0.5		BOB	151.39	202	PKP	54	13.50	3.6X
PV08	122 43	65	PKP	53	18.60	0.3		EALH	145.28	185	ePKP	54	00.40	0.0		PTJ	151.60	212	ePKP	54	07.30	-2.9X
DUG	122.82	60	PKP	53	19.60	0.9		EHOR	145.30	180	ePKP	54	00.40	0.0		CEY	151.69	210	e(PKP)	54	16.40	6.2X
	Z 19s	0.15um				4.7Msz		ROI	145.33	210	PKP	54	00.70	0.2					e	54	25.00	
MIAR	123 01	80	PKP	53	30.00	11.0X		SOH	145.37	220	ePKP	54	08.08	7.6X		BHB	151.69	199	PKP	54	16.20	5.9X
	Z 19s	0.20um				4.8Msz		CSI	145.57	210	PKP	54	00.30	-0.6		RRL	151.82	198	PKP	54	17.48	6.8X
GOL	124 38	67	PKP	53	22.60	0.7		SRS	145.61	220	ePKP	54	00.44	-0.4		RSP	152.00	199	PKP	54	16.01	5.2X
GLD	124.47	67	PKP	53	30.00	8.0X		EBAN	145.63	182	ePKP	54	01.40	0.4		VOY	152.05	209	ePKP	54	10.80	0.0
	Z 20s	0.71um				5.3Msz		GRG	145.68	218	iPKP	54	01.36	0.4					ePKPbc	54	17.50	
SMY	124 88	359	PKP	53	30.00	8.0X		FNA	145.70	217	ePKP	54	01.44	0.4					e(PKPa	54	36.20	
	Z 19s	1.53um				5.7Msz		KNT	145.78	219	iPKP	54	01.44	0.3		LSD	152.32	199	PKP	54	18.21	6.8X
GOGA	125.01	90	PKP	53	30.00	7.1X		JAQ	145.79	84	ePKPd	54	00.30	-0.4		CTI	152.38	206	PKP	54	12.40	1.1
	Z 19s	0.41um				5.1Msz		LCI	145.86	212	PKP	54	02.20	1.0		LPG	152.39	198	ePKP	54	11.20	-0.4
BW06	126.10	62	PKP	53	25.30	0.1		VAY	146.00	219	iPKP	54	02.40	0.9			1.2s	24.70nm				
BMW	126.16	49	PKP	53	25.60	0.7			1.3s	84.00nm						LPL	152.41	198	ePKP	54	11.10	-0.4
MYNC	126.35	88	PKP	53	40.00	14.4X					i	54	11.20				1.2s	14.30nm				
	Z 19s	0.39um				5.1Msz		ANN	146.02	239	ePKP	54	02.00	0.7		RBL	152.50	209	PKP	54	10.70	-0.7
LON	126.74	50	PKP	53	26.10	0.1			1.2s	80.00nm						VAI	152.55	201	PKP	54	17.70	6.4X
FVM	127.14	81	PKP	53	40.00	13.0X			Z 18s	0.40um				5.2Msz		RSL	152.60	198	PKP	54	11.47	-0.2
	Z 18s	0.54um				5.3Msz		EVIA	146.09	184	iPKPc	54	03.10	1.2		COLF	152.67	194	PKP	54	10.92	-0.7
GMW	127.27	49	PKP	53	27.60	0.7		OHR	146.13	216	iPKP	54	02.30	0.5		FVI	152.76	208	PKP	54	19.10	7.5X
LRM	128.18	58	ePKP	53	30.40	1.4			1.3s	213.00nm						KBA	153.15	209	iPKPc	54	11.70	-0.8
		e	53	37.90				SGO	146.48	209	PKP	54	03.10	0.9			1.1s	16.90nm				
CEH	128.63	93	PKP	53	40.00	10.2X		TIK	146.81	335	iPKP	54	01.00	-0.8					i	54	19.90	
	Z 20s	0.22um				4.8Msz			1.4s	88.00nm						OGA	153.27	205	iPKPc	54	12.80	0.1
RSSD	128.85	66	PKP	53	29.90	-0.4					i	54	09.00			MBC	153.56	29	ePKP	54	09.50	-2.4X
	Z 21s	0.21um				4.8Msz		SKO	146.84	218	iPKPd	54	04.30	1.5		WTTA	153.58	206	iPKPc	54	11.80	-1.3
NEW	129.28	53	PKP	53	30.70	-0.1			1.3s	94.00nm							1.3s	57.70nm				
NAV	129.44	90	PKP	53	31.20	-0.2		SIM	146.90	235	ePKP	54	05.00	2.2					i	54	21.20	
KLD	130.91	269	ePKP	53	21.70	-12.3X		ESEL	147 00	191	ePKP	54	05.80	2.7X					i	54	28.80	
		e	53	29.90				ECHE	147 00	186	iPKPc	54	06.40	3.2X					i	54	34.30	
		e	55	17.00				ULC	147 23	215	iPKPd	54	06.28	2.8X		SOTA	153.59	206	iPKPc	54	12.70	-0.3
CIT	131.20	314	ePKP	53	35.00	0.7		EPLA	147.53	179	iPKPc	54	07.40	3.4X			1.1s	54.20nm				
ZAK	132.11	305	ePKP	53	35.00	-0.9		BDV	147 61	214	iPKPd	54	07.26	3.2X					i	54	21.20	
	2 0s	44.00nm						TTG	147.68	215	iPKPd	54	07.38	3.3X		ZST	153.64	215	ePKP	54	33.20	20.4X
FRU	133.24	276	ePKP	53	40.00	1.6		DUI	147 69	208	PKP	54	06.80	2.5X		BGF	153.76	193	ePKP	54	12.70	-0.4
	Z 20s	0.80um				5.4Msz		PVY	147 71	216	ePKP	54	06.31	2.0			1.4s	41.40nm				
	N 20s	0.80um						SDI	147.82	207	PKP	54	07.00	2.5X		BHG	153.85	208	iPKPc	54	12.30	-0.9
		e	56	12.00				HCY	147.83	214	iPKPd	54	07.64	3.3X		AVF	153.96	193	ePKP	54	12.70	-0.6
RSO	134.48	22	PKP	53	41.10	0.6		IVA	147.99	216	iPKPd	54	07.96	3.2X			1.3s	19.15nm				
SVW	134.81	20	ePKP	53	36.80	-4.1X		NKY	148.10	215	iPKPd	54	08.19	3.3X		SPC	154.02	220	e(PKP)	54	13.10	-0.5
		e	53	42.30				GUD	148.11	181	iPKPd	54	08.80	3.7X					i	54	37.30	
SLKM	134 83	24	PKP	53	37.30	-3.6X		ETOR	148.26	184	iPKPc	54	09.50	4.3X		LBF	154.11	194	ePKP	54	13.00	-0.6
CP2	135.32	22	PKP	53	43.30	1.3X		BRY	148.26	214	iPKPd	54	08.44	3.2X			1.3s	18.75nm				
PMR	136.01	24	ePKP	53	40.80	-2.2		PLE	148.53	216	iPKPd	54	08.84	3.2X		SSF	154.22	194	ePKP	54	13.10	-0.6
	0.9s	22.30nm						CFR	148.54	228	ePKP	54	02.00	-3.4X			1.2s	12.50nm				
		e	53	44.60				MNS	148.64	206	PKP	54	09.20	3.5X		LOMF	154.22	199	PKP	54	12.82	-1.0
BOD	136.53	317	ePKP	53	42.60	-1.5		BRD	149.10	227	ePKP	54	13.00	6.7X		LOR	154.40	194	ePKP	54	13.50	-0.4
	1.4s	12.00nm						PGF	149.25	201	PKP	54	11.34	4.6X			1.4s	28.75nm				
TTA	136.56	19	PKP	53	42.30	-1.9		CMP	149.30	224	ePKPc	54	14.00	7.3X			Z 22s	0.32um				5.1Msz
ULM	136.73	69	ePKP	53	47.00	2.2		MLR	149.32	225	ePKPd	54	11.00	4.2X		FUR	154.51	206	ePKP	54	14.30	0.3
HRV	137.00	97	PKP	54	00.00	14.5X		VRI	149.51	227	ePKPd	54	11.00	4.1X		BSF	154.70	199	ePKP	54	13.50	-0.9
	Z 20s	0.48um				5.2Msz		ETER	149.52	192	ePKP	54	11.80	4.8X			1.5s	16.20nm				
RSNY	137.95	92	PKP	54	00.00	12.7X		EGRA	149.58	187	iPKPd	54	12.50	5.4X		HAU	154.92	198	ePKP	54	13.90	-0.7
	Z 21s	0.40um				5.1Msz		PPE	149.64	228	ePKP	54	17.00	9.9X			Z 23s	0.47um				5.3MszX
EEO	138.46	87	ePKP	53	51.50	3.3X		PERF	149.71	192	PKP	54	11.65	4.3X		OJC	155.09	220	ePKP	54	14.00	-0.7
BNH	138.98	96	PKP	53	47.60	-1.6		SVE	149.79	274	ePKPc	54	07.00	0.1		KHC	155.12	210	ePKP	54	13.00	-1.9
FBA	139.37	23	PKP	53	50.60	1.4			1.9s	300.00nm									e	54	23.00	

		e	54	48.40	
		e	55	10.50	
CDF	155.23	200 ePKP	54	14.20	-0.9
OBN	155.48	247 iPKPc	54	25.00	9.9X
	1.2s	44.00nm			
		e	54	34.00	
LANF	155.73	201 PKP	54	14.85	-0.8
PRU	155.80	212 ePKP	54	18.00	2.3
		e	54	51.50	
FRB	156.05	78 ePKP	54	15.00	-0.6
	1.5s	37.00nm			
KSP	156.34	215 ePKP	54	15.30	-1.1
BRG	156.76	212 ePKP	54	16.10	-0.9
		e	54	27.80	
MOX	156.89	208 ePKP	54	16.50	-0.7
		e	54	27.90	
		e	54	48.40	
CLL	157.33	211 ePKP	54	16.00	-1.6
		i	54	50.10	

S.D. = 1.0 on 135 of 231 obs.

& MAY 31, 1993 08h 55m 29.99s
34.120 N 116.995 W
DEPTH = 5.7km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 3.9 (PAS), 4.4 (BRK), 3.8 (GS). Felt (IV) at Pownskin, Redlands and Running Springs. Also felt at Highland and Forest Falls.

PEC	0.27	211 iPc	55	35.08	-0.3
SSK	0.59	279 ePc	55	41.00	-0.8
PLM	0 77	172 ePd	55	44.33	-1.2
GSC	1.19	8 ePd	55	51.85	-0.8
ISA	1.96	322 ePn	56	02.82	-1.4
		ePg	56	05.67	
		eS	56	31.05	
ABL	1 98	292 ePn	56	03.76	-0.9
		eS	56	29.40	
GLA	2.10	120 ePn	56	04.16	-2.1
BCH	2.76	294 ePn	56	14.60	-1.1
		eS	56	55.95	
TPNV	2 89	12 ePn	56	17.13	-0.4
		ePg	56	23.73	
		eS	56	59.83	
PHAM	3 28	302 ePn	56	21.92	-1.0
FRI	3.62	323 iP	56	31.54	3.8
		iS	57	15.86	
PRI	3.62	305 iP	56	27.18	-0.8
		iS	57	13.42	
MRCM	3.75	341 ePn	56	30.35	0.4
		ePg	56	39.24	
MMPM	3.85	335 ePn	56	31.60	0.1
		eS	57	30.50	
TNP	3.96	357 ePn	56	32.08	-0.7
		ePg	56	42.71	
BONR	3.97	345 ePn	56	32.76	-0.3
		ePg	56	43.38	
LLA	4.08	309 iPd	56	32.68	-1.6
PRS	4.21	303 iPd	56	33.86	-2.3
SAO	4.49	307 ePn	56	38.57	-1.6
ARUT	4.66	37 P	56	41.70	-1.0
CMB	4.77	326 ePc	56	43.25	-1.0
		eS	57	58.45	
ARN	4.90	312 ePn	56	43.38	-2.6
COE	4.93	311 ePn	56	43.56	-2.8
MHC	4.96	312 ePd	56	45.13	-1.8
		eS	57	54.85	
KVN	5.00	350 (Pn)	56	46.75	-0.8
		ePg	57	02.35	
TUC	5.51	107 ePn	56	50.93	-3.8
BKS	5.66	313 ePd	56	54.06	-2.7
		eS	57	59.41	
MSU	5.86	40 ePn	56	58.97	-0.8
NTYM	6.25	315 eP	57	02.16	-2.9
ORV	6.52	328 (Pn)	57	08.56	-0.3
DUG	6.92	28 ePn	57	15.33	0.7
		eS	58	57.67	
SRU	7.20	44 ePn	57	18.04	-0.6
EMUT	7.53	39 (Pn)	57	23.38	0.1
PV10	7.70	54 eP	57	23.55	-2.1
PV09	7.70	53 eP	57	24.43	-1.3
DAU	7.77	34 ePn	57	27.43	0.8
PV08	8.07	54 eP	57	28.88	-2.0
ALQ	8.73	82 eP	57	37.92	-2.1

38 obs associated

% MAY 31, 1993 09h 58m 28.24± 0.64s
38.427 N ± 6.6km 1.604 W ± 5.9km
DEPTH = 10.0km (geophysicist)
SPAIN (377)
mbLg 2 8 (MDD).

EALH	0.59	166 eP	58	40.10	0.0
		e	58	46.50	
EVIA	0.74	287 iPc	58	41.79	-1.0
		e	58	51.30	
ACU	0.94	84 eP	58	46.00	-0.2
		e	58	59.50	
EHUE	0.99	232 iPgc	58	46.85	-0.2
ECHE	1.26	23 ePn	58	51.92	0.2
ENIJ	1.53	198 ePn	58	55.96	0.3
EBAN	1.74	262 eP	59	00.40	1.8
		e	59	20.80	
ECOG	1.93	234 eP	59	01.10	-0.5
		e	59	26.40	
EGUA	2.23	225 ePn	59	05.35	-0.4
		eSn	59	32.50	
GUD	2.96	319 eP	59	23.10	6.8X
		e	59	58.80	

S.D. = 0.9 on 9 of 10 obs.

? MAY 31, 1993 10h 16m 00.38± 8.31s
39.371 N ±61.3km 28.234 E ±13.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

DST	0.38	52 iPg	16	08.20	-0.1
KCT	0.88	6 iPg	16	17.70	0.4
		eSg	16	29.70	
EDC	1.02	344 ePg	16	19.00	-0.6
		eSg	16	33.00	
KGT	1.29	327 ePn	16	24.60	0.3

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

% MAY 31, 1993 11h 13m 21.94± 1.06s
31.769 S ±19.6km 68.677 W ± 9.6km
DEPTH = 100.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.47	22 ePc	13	38.00	0.2
		(S)	13	45.50	
RTBS	0.67	279 ePd	13	39.20	-0.1
		S	13	51.20	
RTPR	2.37	52 e(P)c	13	59.70	-0.1
MRA	2.60	105 ePc	14	03.00	0.0
TCA	3.51	84 ePd	14	15.60	0.0
		S	14	56.00	

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

& MAY 31, 1993 12h 27m 14.26s
58.931 N 153.601 W
DEPTH = 89.1km
3.0mb (1 obs.)
KODIAK ISLAND REGION (13)
<AEIC>.

CDD	0.02	267 iPd	27	26.21	0.7
		eS	27	35.48	
AUI	0.42	12 iPc	27	27.77	-0.7
		eS	27	37.38	
AUH	0.44	11 iPc	27	28.14	-0.6
		eS	27	38.48	
AUP	0.44	12 iPc	27	28.15	-0.6
		eS	27	39.56	
AUE	0.45	15 iPc	27	28.18	-0.5
MCNL	0.46	304 iPd	27	28.09	-0.7
		eS	27	38.18	
AUL	0.46	11 ePc	27	28.22	-0.6
SYI	0.71	117 ePc	27	30.16	-0.8
		eS	27	41.95	
OPT	0.75	15 eP	27	30.87	-0.6
		eS	27	43.13	
PDB	0.91	341 iPd	27	32.23	-0.9
		eS	27	45.96	
XLV	1.10	61 eP	27	34.64	-0.7
INW	1.17	12 ePc	27	35.26	-1.0
		eS	27	50.87	
INE	1.17	13 ePc	27	35.27	-1.1
		eS	27	50.98	
ILIM	1.20	16 eP	27	35.40	-1.2
KDC	1.32	153 eP	27	36.67	-1.4
		eS	27	53.44	
CNPM	1.35	63 ePc	27	37.30	-1.2
		eS	27	55.20	
RSO	1.60	15 eP	27	40.84	-1.0
RDW	1.61	14 ePc	27	41.01	-1.0
BRLK	1.62	58 eP	27	40.51	-1.5
		eS	28	00.42	
NCT	1.67	11 ePc	27	41.74	-1.0
		eS	28	02.86	
DFR	1.73	15 eP	27	42.30	-1.2
NKA	2.17	32 ePc	27	50.14	0.9
SLKM	2.33	46 eP	27	49.69	-1.8
CKL	2.36	15 eP	27	50.97	-1.0
SPU	2.39	18 ePd	27	51.20	-1.1
CKN	2.41	17 eP	27	52.11	-0.4
SVW	2.41	336 (P)	27	51.79	-0.8
BGL	2.42	14 eP	27	52.13	-0.6
SEW	2.42	59 eP	27	50.21	-2.4
CPAM	2.44	17 eP	27	52.57	-0.5
CRP	2.45	17 eP	27	51.14	-2.1
CGLM	2.51	18 eP	27	52.99	-1.0
MPA	2.66	52 eP	27	53.75	-2.1
SUA	2.91	28 eP	27	58.28	-1.3
PTE	3.01	48 ePc	27	58.93	-1.8
PMS	3.08	39 P	28	00.30	-1.4
SKT	3.23	18 eP	28	02.72	-1.0
PWA	3.30	33 P	28	02.70	-2.0
MID	3.77	79 P	28	09.30	-1.9
HIN	3.89	65 eP	28	10.01	-2.9
SML	3.89	40 eP	28	10.73	-2.3
YKA	19.20	63 eP	31	30.10	-3.1
	0.5s	0.40nm			3.0mb

42 obs. associated

% MAY 31, 1993 12h 43m 20.98± 2.47s
44.739 N ±22.9km 27.177 E ± 9.7km
DEPTH = 10.0km (geophysicist)
ROMANIA (358)

ISR	0.60	312 iPd	43	32.20	-1.0
BRD	0.78	353 ePd	43	39.00	2.8X
CFR	0.82	57 iPc	43	36.00	-0.9
MLR	1.15	311 iPd	43	41.00	-1.6
VRI	1.18	344 iPd	43	43.50	0.6
PPE	1.51	12 eP	43	51.00	2.9X
MTUR	1.58	289 eP	43	49.00	-0.1
CMP	1.61	290 ePc	43	51.00	1.5
CLI	1.81	2 ePc	43	54.00	1.5

S.D. = 1.5 on 7 of 9 obs.

MAY 31, 1993 13h 34m 10.08± 0.50s
39.268 N ± 5.6km 20.437 E ± 3.1km
DEPTH = 10.0km (geophysicist)
3.8mb (1 obs.)
GREECE-ALBANIA BORDER REGION (392)
ML 3.6 (TIR). MD 3.5 (ATH).

IGT	0.28	343 iPg	34	15.57	-0.3
		eSg	34	21.02	
KEK	0.66	312 iPbc	34	23.00	-0.3
SRN	0.70	331 iPgc	34	23.70	-0.2
		iSn	34	34.20	
TPE	1.08	342 iPnc	34	33.00	2.7X
		iSn	34	50.00	
AGG	1.49	99 ePb	34	37.30	0.3
		eSb	34	57.82	
FNA	1.68	25 iPb	34	40.05	0.4
		eSb	35	03.22	
LIT	1.79	62 iPb	34	40.98	-0.3
		eSb	35	05.18	
OHR	1.86	8 iPnc	34	43.80	1.5
		i	34	47.50	
		i	35	08.50	
		i	35	12.00	
TIR	2.12	348 iPnd	34	47.00	1.0
		iSn	35	16.50	
LCI	2.19	300 P	34	49.20	2.2X
		eSn	35	15.40	
GRG	2.26	41 ePn	34	47.94	-0.2
		eSn	35	16.94	
THE	2.37	54 ePn	34	51.14	1.5
PHP	2.41	0 iPnc	34	50.00	-0.2
		iSn	35	21.50	
LACI	2.43	347 iPnd	34	50.10	-0.3
		iSn	35	24.50	
PAIG	2.59	74 iPn	34	51.69	-1.0
		iSn	35	23.74	

31d 13h

VAY	2.62	38	iPn	34	52.70	-0.4
KNT	2.67	44	iPn	34	53.42	-0.5
			eSn	35	27.02	
SOH	2.72	54	ePn	34	54.85	0.1
			iSn	35	28.30	
SKO	2.81	15	iPn	34	55.00	-0.8
			iPg	35	02.00	
			i	35	28.00	
			iSg	35	32.60	
SDA	2.87	346	ePn	34	56.00	-0.7
			iSn	35	31.00	
OUR	2.93	68	iPn	34	57.33	-0.2
			eSn	35	33.18	
BRT	2.96	304	P	34	59.90	2.0
			eSn	35	36.30	
ROI	3.01	277	P	34	58.90	0.2
			eSn	35	33.80	
SRS	3.04	52	ePn	34	58.74	-0.4
			eSn	35	36.26	
TDS	3.20	278	P	35	02.80	1.5
CSI	3.25	280	P	35	02.00	-0.1
CZI	3.34	271	P	35	04.50	1.1
SOI	3.63	252	P	35	07.90	0.4
			eSn	35	48.40	
MGR	3.87	285	P	35	11.10	0.3
ATN	4.05	256	P	35	12.60	-0.8
SGO	4.15	290	P	35	15.90	1.1
MEU	4.85	245	P	35	22.80	-2.1
			eSn	36	17.20	
HVAR	4.93	324	ePn	35	23.50	-2.4
			iSn	36	16.90	
DUI	5.15	300	P	35	29.00	-0.1
SDI	5.61	298	P	35	36.30	0.7
ASS	6 99	305	P	35	54.40	-0.6
VBY	7 32	330	ePn	35	56.60	-2.9X
			eSn	37	15.60	
PTJ	7.41	335	eP	35	56.50	-4 3X
MLR	7 43	31	eP	36	03.00	1.7
CEY	7.84	327	ePn	36	04.00	-2.9X
			eSn	37	29.50	
VRI	8.06	33	eP	36	10.00	0.0
TRI	8.11	325	e(Pn)	36	08.70	-1.8
			e(Sn)	37	33.30	
VOY	8 30	327	ePn	36	10.00	-3.4X
			eSn	37	39.70	
HFS	21.32	351	eP	38	54.40	-4.6X
	0.6s		2.80nm			3.8mb
Z	17s		78.00um			6.2MszX
			LR	48	33.00	
NB2	22.54	348	P	39	00.00	-11.3X
	0.5s		1.20nm			
GBA	56 05	101	P	43	44.00	-7.6X
S.D. = 1.0 on 37 of 46 obs.						

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* MAY 31, 1993 13h 38m 12.96± 3.05s
37.767 N ±16 5km 66.581 E ±17.3km
DEPTH = 49.7 ± 30.7 km
4.1mb (9 obs.)
AFGHANISTAN-TAJIKISTAN BORD REG.(717)

MAIO	5.85	258	iPnd	39	38.00	-1.5
	0.8s		9.15nm			4.2mb
			eSn	40	43.00	
QUE	7.57	178	eP	40	05.00	1.5
HFS	39.88	322	eP	45	44.10	0.9
	0.6s		2.10nm			4 2mb
Z	17s		78.00um			6.6MszX
			LR	02	47.00	
NB2	41.24	323	P	45	55.00	0.6
	0.8s		2.30nm			4.0mb
YAK	45.03	36	eP	46	23.50	-1 6
	0.9s		31.00nm			5.1mb X
BCAO	54.89	245	iPd	47	40.90	-0.1
	0.5s		10.00nm			5.1mb
			ic	47	47.00	
MBC	66.20	2	eP	48	57.50	0.4
	1.0s		2.00nm			4.1mb
INK	73.17	8	eP	49	41.50	1.8
	0.6s		1.00nm			3.9mb
YKA	80.08	1	eP	50	18.10	-0.3
	0.6s		1.20nm			4.0mb
WRA	85 68	119	P	50	47.50	-0.3
	0.7s		0.60nm			3.9mb
WB2	85.68	119	iPd	50	46.30	-1.5
	0.8s		2.50nm			4.5mb
S.D = 1.4 on 11 of 11 obs.						

? MAY 31, 1993 14h 37m 31.95± 1.46s
0.452 S ±24 9km 91.784 W ±20.6km
DEPTH = 10.0km (geophysicist)
4.1mb (1 obs.)
GALAPAGOS ISLANDS (697)

SDV	23.02	66	eP	42	38.50	-0.1
TOV	24.14	65	eP	42	49.50	0.2
ZOBO	28.13	125	P	43	27.00	-0.1
			LR	52	12.00	
YKA	65.10	349	eP	48	13.60	-1.2
	0.9s		1.20nm			4.1mb
INK	74.33	345	eP	49	12.50	1.4
MBC	78.20	354	eP	49	32.50	-0.3
WB2	130.48	243	ePKP	56	42.90	-2.6X
	0.4s		1.60nm			
S.D. = 1.1 on 6 of 7 obs.						

MAY 31, 1993 14h 40m 36.52± 2.29s
10.078 N ±31 6km 85.903 W ±15.8km
DEPTH = 25.1km (10 depth phases)
4.3mb (15 obs.)
COSTA RICA (78)

PPM	15.21	307	iP	44	11.70	-0.2
GOGA	23.33	5	eP	45	45.29	1.6
	0.6s		22.38nm			4.9mb
			e	45	52.62	26km
PRM	24.11	7	ePc	45	52.47	1.2
JSC	24.46	9	ePc	45	55.99	1.3
UYO	25.23	343	iPc	46	00.90	-1.1
MIAR	25.35	345	eP	46	01.80	-1.3
	0.8s		17.32nm			4.7mb
LTX	25.36	322	eP	46	02.36	-1.1
			e	46	10.18	28km
CEH	26.43	12	eP	46	13.80	0.6
	0.8s		14.70nm			4.7mb
ELC	27.25	354	eP	46	21.25	0.6
OCO	27.44	339	iPd	46	18.40	-4.0X
NAV	27.51	9	eP	46	23.16	0.1
ALQ	31.06	326	eP	46	55.00	-0.1
	0.8s		4.11nm			4.3mb
			e	47	02.45	26km
GOL	34.22	333	eP	47	21.63	-1.0
	0.7s		4.42nm			4.5mb
			e	47	29.32	26km
SRU	36.32	327	eP	47	39.65	-0.8
GAC	36.61	12	eP	47	43.00	0.5
PLM	36.68	314	eP	47	45.06	1.5
EEO	36.90	8	eP	47	47.00	2.0
ARUT	37.07	323	(P)	47	46.52	-0.2
PEC	37.18	314	eP	47	49.08	1.5
	1.1s		12.78nm			4.7mb
RSSD	37.38	338	eP	47	49.21	-0.1
	0.8s		2.98nm			4.2mb
DUG	38.33	326	eP	47	56.64	-0.7
	0.9s		2.69nm			4.0mb
			ePcP	50	15.19	
BW06	38.58	332	eP	47	58.59	-0.8
	0.8s		2.90nm			4.1mb
LMN	39.96	23	eP	48	15.00	4.4X
BONR	40.20	319	eP	48	15.20	2.1
			e	48	22.53	25km
ULM	40.89	350	eP	48	18.50	0.3
ARN	42.02	316	eP	48	29.58	1.9
LRM	42.24	332	eP	48	30.40	0.8
			e	50	27.60	
ORV	43.17	319	eP	48	38.77	1.8
			e	48	46 83	27km
JAQ	44.37	9	eP	48	44.00	-2.5
LON	47.57	327	eP	49	11.45	-0.6
GMW	48.59	327	eP	49	18.46	-1.4
			epP	49	26.03	25km
FCC	48.98	354	eP	49	26.50	3.9X
MCW	49.31	328	eP	49	23.34	-2.2
FRB	54.99	9	eP	50	05.50	-2.2
	0.8s		4.00nm			4.5mb
YKA	56.29	344	eP	50	14.10	-3.1X
	1.1s		3.10nm			4.2mb
BALM	65.36	333	eP	51	18.70	-0.2
INK	65.91	342	eP	51	23.00	0.9
	1.0s		2.00nm			4.2mb
KLU	67.13	333	eP	51	29.72	-0.4
MBC	68.57	352	eP	51	38.00	-0.8
	1.0s		2.00nm			4.2mb
SLKM	68.76	331	eP	51	39.70	-0.6
			epP	51	46.74	23km
FBA	69.20	336	eP	51	41.59	-1.3
	0.6s		1.03nm			4.1mb
			ePcP	52	07.62	
TTA	72.07	333	eP	51	59.19	-1.2
	0.9s		2.01nm			4.1mb
			epP	52	06.40	23km
ADK	82.64	321	eP	53	01.21	2.2
	0.8s		39.58nm			5.6mb X
			epP	53	08.40	23km
WB2	139.99	251	ePKP	00	09.10	3.6X
	0.9s		2.10nm			
HYB	148.66	29	ePKP	00	27.30	7.1X
GBA	151.24	35	PKP	00	34.00	9.9X
LOE	151.67	345	ePKP	00	34.00	9.3X
S.D. = 1.3 on 39 of 47 obs.						

? MAY 31, 1993 15h 01m 29.77± 0.70s
15.153 N ±10.3km 60.997 W ±32.4km
DEPTH = 120.0km (geophysicist)
LEEWARD ISLANDS (92)

CRM	0.40	169	iPd	01	47.65	0.3
FDF	0.44	200	iPd	01	47.83	0.2
			S	02	03.00	
MVM	0.60	171	iPd	01	48.46	-0.2
			S	02	03.90	
BIM	0.64	186	iPnd	01	48.74	-0.2
			S	02	09.30	
MGG	0.82	338	eP	01	50.50	0.1
			S	02	07.10	
PAG	1.09	323	eP	01	53.00	-0.1
DEG	1.16	357	eP	01	53.65	-0.1
S.D. = 0.2 on 7 of 7 obs.						

% MAY 31, 1993 16h 21m 51.61± 0.77s
26.371 S ± 5.8km 27.392 E ± 9.3km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.5 (PRE).

PRY	0.56	173	eP	22	02.50	-0.3
			S	22	07.40	
KSR	0.67	318	eP	22	05.00	-0.1
			S	22	13.00	
SLR	1.02	52	eP	22	11.50	0.0
			S	22	24.00	
SEK	1.96	174	eP	22	26.20	0.3
			S	22	50.00	
BLF	2.93	201	eP	22	40.00	0.1
S.D. = 0.3 on 5 of 5 obs.						

% MAY 31, 1993 16h 46m 42.32± 0.84s
26.370 S ± 6.7km 27.520 E ± 8.8km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.8 (PRE).

PRY	0.56	184	eP	46	52.50	-1.0
			S	46	58.40	
KSR	0.75	312	eP	46	56.50	-1.1
			S	47	06.00	
BFS	0.84	231	eP	47	00.10	0.9
			S	47	11.00	
SLR	0.93	47	eP	47	01.10	0.4
			S	47	13.40	
SEK	1.95	177	iPc	47	17.00	0.5
			S	47	43.00	
SWZ	2.12	247	eP	47	20.00	0.9
			S	47	47.50	
BLF	2.97	203	eP	47	30.50	-0.7
			S	48	07.50	
S.D. = 1.1 on 7 of 7 obs.						

? MAY 31, 1993 18h 01m 54.25± 2.02s
35.208 N ±29.8km 70.726 E ±15.6km
DEPTH = 364.9 ± 32.1 km
4.3mb (6 obs.)
HINDU KUSH REGION, AFGHANISTAN (718)

QUE	5.93	213	eP	03	25.60	0.0
			eS	04	43.00	
GKN	13.85	117	P	04	57.30	-1.1
	0.5s		16.00nm			4.7mb
DMN	14.42	118	P	05	05.80	1.2
KKN	14.44	117	P	05	04.50	-0.3
	0.6s		18.00nm			4.6mb
PKI	14.66	117	P	05	07.00	-0.3

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GUN     14.82 115 P      05 09.60   0.6
        0.4s      9.00nm          4.5mb
HFS     43.95 323 eP     09 28.00   0.3
        0.3s      0.80nm          3.4mb
NB2     45.28 324 P      09 38.00  -0.3
        0.5s      1.10nm          3.4mb
WB2     81.51 122 eP     13 33.00  -0.1
        0.3s      2.00nm          4.4mb
      S.D. = 0.8  on   9 of   9 obs.
-------------------------------------
*  MAY  31, 1993  19h 28m 19.82± 1.97s
   10.824 S ± 7.8km  165.766 E ±13.3km
   DEPTH =  43.7 ± 15.4 km
   4.7mb ( 13 obs.)  4.1Msz (  1 obs.)
 SANTA CRUZ ISLANDS                (184)

HNR      5.89 283 eP     29 47.00   0.0
                eS      30 52.00
SVO      6.09 285 eP     29 50.00   0.2
                eS      30 57.00
DZM     11.20 177 iPc    31 00.20  -0.3
                iS      33 00.50
BRS     20.52 215 iPd    32 58.00   0.9
        1 0s      5.00nm          3.8mb
CTA     20.92 242 iPc    33 01.00  -0.3
        1 0s     17.50nm          4.4mb
                ic      33 05.00
                e       33 14.00
ARMA    23.52 212 iPd    33 29.50   2.5X
        0 9s     13.00nm          4.4mb
OLP     25 66 229 eP     33 48.00   0.6
BWA     28 34 211 eP     34 11.20  -0.6
CAN     28.76 209 eP     34 16.30   0.7
STK     30 62 223 eP     34 31.60  -0.6
        0 8s      3.00nm          4.1mb
WB2     31.57 249 iPc    34 39.30  -1.4
        1.0s     10.30nm          4.6mb
                i       37 32.80
WRA     31.58 250 P      34 39.80  -1.0
        0 8s      4.00nm          4.3mb
TOO     32.27 211 iPd    34 48.10   1.5
        0 5s     13.00nm          5.0mb
ASPA    32.91 243 iPd    34 50.90  -1.5
        1 0s     22.70nm          5.0mb
      Z 22s      0.40um           4.1Msz
MEEK    47.06 244 eP     36 50.00   0.6
MAT     53.78 332 eP     37 40.00  -0.3
        1 5s     41.67nm          5.2mb
KMI     71.02 301 Pc     39 37.50   1.6
        1.5s     50.00nm          5.3mb
                 pP      39 51.00  47kmX
LZH     74.62 312 Pd     39 57.50   0.7
        1.2s     23.00nm          5.0mb
YAK     77.87 344 eP     40 14.20   0.0
        1.3s     26.00nm          5.1mb
YKA     94.77  27 eP     41 36.70  -0.9
        1.0s      1.00nm          4.2mb
BCAO   146.93 261 iPKPd  48 01.00   2.7X
        0.5s     28.00nm
                 ic      48 10.90
      S.D. = 1.0  on  19 of  21 obs.
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?  MAY  31, 1993  19h 47m 51.57± 3.03s
   31.726 S ±31.3km   70.557 W ±23.8km
   DEPTH = 110.0km  (geophysicist)
 CHILE-ARGENTINA BORDER REGION     (127)
      MD 3.5 (SAN).

JACH     0.95 182 iP     48 13.06   0.4
                iS      48 28.17
ROCH     1.30 197 iP     48 16.55  -0.1
                iS      48 34.68
PEL      1.42 184 iPd    48 17.74  -0.1
                iS      48 36.09
FCH      1.61 172 iPd    48 21.22   0.7
                iS      48 42.06
PCH      1.89 179 iP     48 24.79   1.1
                iS      48 47.49
LCCH     1.94 206 iP     48 24.08  -0.2
                iS      48 47.15
TACH     1.95 189 iP     48 24.07  -0.3
                iS      48 47.48
CFA      1.98  87 ePc    48 27.00   2.2
                S       48 50.70
CHCH     2.20 182 iP     48 27.36  -0.4
                iS      48 53.19
LNV      2.34 198 iP     48 28.65  -0.7
                iS      48 56.18
MRA      4.17 101 e(P)   48 52.80  -1.4
TCA      5.11  87 ePc    49 06.00  -1.2
      S.D. = 1.1  on  12 of  12 obs.
-------------------------------------
*  MAY  31, 1993  19h 53m 29.79± 0.65s
   36.599 N ±12.1km   71.626 E ± 7.8km
   DEPTH =  33.0km  (normal)
   4.8mb (  7 obs.)  3.4Msz (  1 obs.)
 AFGHANISTAN-TAJIKISTAN BORD REG.(717)

QUE      7.49 213 eP     55 20.50   0.8
                eS      56 41.80
MAIO     9.78 272 eP     55 50.00  -1.3
        0.8s      9.15nm          5.1mb
                eS      57 30.00
GKN     13.94 124 P      56 48.00   0.7
KKN     14.51 123 P      56 54.40  -0.4
        0.6s     34.00nm          5.0mb
DMN     14.51 124 P      56 55.40   0.5
        0.5s     21.00nm          4.9mb
PKI     14.74 124 P      56 58.00   0.1
        0.7s     39.00nm          4.9mb
GUN     14.84 122 P      56 57.60  -1.6
HYB     20.07 160 eP     58 07.50   4.3X
HFS     43.30 322 eP     01 30.40   0.6
        0.4s      5.20nm          4.6mb
      Z 18s       0.04um          3.4Msz
                LR      21 01.00
NB2     44.60 323 P      01 40.70   0.3
        0.6s      4.40nm          4.5mb
WB2     81.63 122 iPc    05 46.30   0.2
        0.4s      1.20nm          4.3mb
      S.D. = 1.0  on  10 of  11 obs.
-------------------------------------
%  MAY  31, 1993  20h 08m 07.57± 0.67s
   42.523 N ± 4.8km   13.243 E ± 7.1km
   DEPTH =  10 0km  (geophysicist)
 CENTRAL ITALY                     (381)

AQU      0.21 145 P      08 12.00  -0.1
                eSg     08 14.30
MNS      0.44 252 P      08 15.90  -0.6
                eSg     08 23.80
ASS      0.70 322 P      08 21.00  -0.4
                eSg     08 32.20
RMP      0.82 210 P      08 23.40   0.0
                eSg     08 36.80
RDP      0.86 207 P      08 25.10   1.0
                eSg     08 38.50
SDI      0.92 152 P      08 24.80  -0.4
                eSg     08 38.20
ARV      1.00 347 P      08 26.80   0.3
                eSg     08 41.40
SFI      1.73 324 P      08 40.10   2.3X
PGD      1.75 321 P      08 38.60   0.3
      S.D. = 0.6  on   8 of   9 obs.
-------------------------------------
?  MAY  31, 1993  20h 18m 22.88± 6.86s
   16.241 N ±14.9km   60.985 W ±55.7km
   DEPTH =  10.0km  (geophysicist)
 LEEWARD ISLANDS                   ( 92)
      ML 3.0 (FDF).

DEG      0.10 315 eP     18 25.65   0.0
MGG      0.45 225 eP     18 32.10   0.0
DOG      0.64 251 eP     18 35.40  -0.4
PAG      0.70 253 eP     18 37.10   0.4
      S.D. = 0.5  on   4 of   4 obs.
-------------------------------------
   MAY  31, 1993  21h 15m 02.54± 1.36s
   29.390 S ± 8 8km  176.373 W ± 7.2km
   DEPTH =  68.0 ± 11.5 km
   5.1mb ( 21 obs.)
 KERMADEC ISLANDS REGION           (177)
      Mw 5.1 (HRV).
      CENTROID. MOMENT TENSOR      (HRV)
      Data Used: GDSN
      L.P.B.: 15S, 20C
      Centroid Location:
      Origin Time        21:14:57.0 0.8
      Lat 29.34S 0.09 Lon 175.48W 0.08
      Dep  15.0 FIX Half-duration  1.0
      Moment Tensor;   Scale 10**16 Nm
        Mrr=-3.24 0.31  Mtt=-1.91 0.54
        Mff= 5.16 0.37  Mrt= 0.93 1.16
        Mrf= 0.90 1.25  Mtf= 0.15 0.29
      Principal Axes:
        T  Val=  5.26  Plg= 6  Azm=272
        N       -1.48      27        5
        P       -3.78      62      170
      Best Double Couple:Mo=4.5*10**16
       NP1:Strike=335 Dip=45 Slip=-129
       NP2:       204     57      -57

RAO      1.36 275 iPd    15 25.00  -0.9
                S       15 46.00
SNZO    13.93 209 P      18 19.00   1.0
                S       20 34.00
DZM     17.10 291 iPc    19 00.60   2.0
ARMA    27.71 260 eP     20 47.70   1.2
        0.8s      9.00nm          4.4mb
CNB     29.44 249 iPc    21 03.90   1.8
        0.6s     13.00nm          4.8mb
CAN     29.74 249 eP     21 05.10   0.4
                i       21 21.60
BWA     30.21 251 eP     21 07.50  -1.3
                i       21 22.90
TOO     32.66 245 eP     21 30.70   0.5
        0.8s     13.00nm          4.8mb
CTA     35.06 277 iPd    21 51.00   0.0
                ic      22 05.00
STK     36.09 255 eP     21 58.30  -1.3
        0.7s     17.60nm          5.1mb
                i       22 14.50
ASPA    44.59 265 iPc    23 08.20  -1.7
        0.8s     17.00nm          4.9mb
      Z 19s       1.30um          4.9Msz
                ePcS    28 42.80
                eS      29 41.40
WB2     45.48 270 iPc    23 14.80  -2.1
        0.8s     33.70nm          5.3mb
                epP     23 30.20  60kmX
                eScP    28 59.10
                eS      29 51.80
WRA     45.49 270 P      23 15.40  -1.6
        0 7s     11.40nm          4.9mb
HON     53.44  21 P      24 30.00  12.3X
      Z 19s       0.24um          4.3Msz
CSY     56.69 208 iPc    24 40.40  -0.5
        0.8s     31.00nm          5.4mb
MBL     57.66 262 eP     24 45.00  -3.3X
MAW     73.74 200 iP     26 31.50   0.9
        1.0s     25.00nm          5.1mb
MAT     78.24 324 (P)    26 56.00  -0.4
KGM     B2.54 277 ePc    27 20.00   0.3
BCH     83.30  43 P      27 23.80   0.5
SAO     83.59  41 P      27 30.00   5.4X
      Z 19s       0.61um          5.0Msz
PLM     84.06  46 P      27 26.90  -0.4
ISA     84.59  44 P      27 30.30   0.6
        1.3s     27.58nm          5.1mb
      Z 18s       0.27um          4.7Msz
KMPM    84.69  37 P      27 31.10   1.0
CMB     85.07  41 P      27 32.00   0.0
        1.0s     15.68nm          5.0mb
      Z 20s       0.55um          4.9Msz
GLA     85.17  48 P      27 32.80   0.2
ORV     85.50  39 P      27 33.90  -0.2
WDC     85.65  38 P      27 33.80  -1.0
        1.1s     30.17nm          5.3mb
      Z 18s       0.37um          4.8Msz
LGPM    85.73  38 P      27 35.80   0.5
IPM     85.80 278 ePc    27 36.60   0.5
TPNV    86.79  44 P      27 41.20   0.5
TNP     86.95  43 P      27 41.50   0.0
        1.0s     15.48nm          5.1mb
KVN     87.08  42 P      27 41.90  -0.2
TUC     87.38  51 P      27 43.90   0.4
        1.0s     15.72nm          5.1mb
      Z 20s       0.20um          4.5Msz
ARUT    89.04  45 P      27 52.20   0.7
KDC     89.10  13 P      27 51.00   0.0
        1.1s     19.27nm          5.3mb
VBEM    89.30  35 P      27 52.44   0.0
VIPM    89.41  36 P      27 53.09   0.0
BMW     89.49  34 P      27 53.90   0.7
CROR    89.55  36 P      27 53.59   0.0
SHW     89.77  34 P      27 55.10   0.5
VGB     90.03  35 P      27 55.50  -0.2
ASR     90.06  35 P      27 55.87  -0.1
LON     90.38  34 P      27 57.48   0.2
JBO     90.47  36 P      27 57.74   0.0
LTX     90.66  56 P      27 56.20  -2.9X
```

31d 21h

DUG	90.93	43	P	28	10.00	9.9X	
	Z 18s	0.31um			4.8Msz		
EBG	91.10	35	P	28	01.40	0.8	
JCW	91.33	33	P	28	02.05	0.4	
WAH2	91.49	35	P	28	02.60	0.3	
LNOR	91.55	36	P	28	02.44	-0.3	
RSO	91.60	11	P	28	02.30	-0.5	
ALQ	91 84	51	P	28	04.10	-0.4	
	0.9s	6.88nm			5.1mb		
	Z 18s	0.22um			4.6Msz		
WTV	91.94	34	P	28	04.53	0.0	
SLKM	92.10	13	P	28	03.90	-1.0	
SAW	92.22	35	P	28	05.72	0.0	
OD2	92.35	35	P	28	06.52	0.2	
DPW	92.93	35	P	28	08.80	-0.2	
TTA	93.43	9	P	28	10.90	-0.1	
	1.1s	7.53nm			5.0mb		
BALM	94.27	16	P	28	14.80	-0.2	
BW06	94.44	43	P	28	16.30	-0.1	
	0.7s	6.28nm			5.2mb		
LRM	94.63	39	eP	28	16.80	-0.4	
KMI	94.64	296	Pc	28	20.00	2.4	
	1.8s	50.00nm			5.6mb		
GLD	95.37	47	P	28	20.80	0.2	
FBA	96.59	12	P	28	24.10	-1.2	
	0.9s	6.02nm			5.1mb		
ZOBO	97.27	113	P	28	28.20	-2.1	
	Z 20s	0.12um			4.4Msz		
		LR		00	42.00		
RSSD	98.51	44	P	28	34.00	-0.7	
	1.1s	15.73nm			5.5mb		
	Z 19s	0.38um			4.9Msz		
M:AR	100.68	56	Pdiff	28	50.00	5.4X	
	Z 19s	0.20um			4.6Msz		
EEO	115.48	49	ePKP	33	37.00	-1.1	
FRB	123.79	31	ePKP	33	52.50	-0.8	
	1.0s	8.00nm					
TAB	143.71	295	ePKP	34	30.00	-1.6	
KAF	144.05	342	ePKP	34	28.00	-3.2X	
OBN	145.12	327	iPKPd	34	32.50	-0.7	
	1.1s	97.00nm					
		e		34	47.00		
		e		35	28.00		
NUR	145.83	342	iPKP	34	33.60	-0.7	
	1.0s	48.70nm					
NB2	147.95	353	PKP	34	40.30	2.5	
	1.0s	18.20nm					
UPP	148.09	347	iPKP	34	39.20	1.3	
HFS	148.51	350	ePKP	34	40.00	1.4	
	ó.6s	2.00nm					
BCAO	151 44	212	iPKPc	34	45.00	0.5	
	0.5s	20.00nm					
		id		34	50.90		
		id		35	00.00		
HRI	152 36	286	iPKPd	34	53.30	7.9X	
KAS	152.81	304	ePKP	34	54.00	8.3X	
PRNI	152.82	280	iPKPd	34	53.90	7.9X	
SAGI	153.10	280	iPKPd	34	54.20	7.8X	
BRG	157.18	343	ePKP	34	59.10	7.9X	
		e		35	22.30		
PRU	157.83	341	ePKP	34	43.00	-9.0X	
		e		34	53.00		
		e		35	30.50		
		e		35	47.50		
	S.D. = 1.0	on	71 of	84	obs.		

MAY 31, 1993 21h 57m 12.83± 0.50s
31 278 S ± 6.4km 68.216 W ± 5.9km
DEPTH = 111.3 ± 6.5 km
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.22	257	iPc	57	28.20	-0.8
CFA	0.33	183	iPd	57	29.00	-0.1
			(S)	57	44.00	
ZON	0.48	236	iPd	57	29.80	-0.2
			eS	57	41.80	
RTBS	1.12	250	ePc	57	36.30	0.6
RTRS	1.54	316	iPc	57	40.70	0.2
RTPR	1.76	57	iPd	57	43.80	0.5
MRA	2.42	119	iPc	57	51.90	0.2
PEL	2.80	228	iP+	57	57.50	0.5
			iS	58	27.50	
TCA	3.10	92	iPc	58	01.40	0.3
			(S)	58	36.00	
RFA	3.49	183	iPc	58	05.70	-0.6
			S	58	37.70	
FSA	5.53	21	eP	58	33.50	-0.5

WRA	124.66	206	PKP	16	01.00	-0.2
	0.5s	0.40nm				
	S.D. = 0.6	on	12 of	12	obs.	

% MAY 31, 1993 22h 35m 54.90± 0.76s
39.249 N ± 8.0km 29.065 E ± 9.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

DST	0.49	317	iPg	36	04.50	-0.4
			eSg	36	11.00	
ALT	0.84	103	ePg	36	11.20	0.1
			eSg	36	21.70	
KHL	0.99	159	iPg	36	13.70	-0.1
KCT	1.14	332	iPn	36	16.80	0.6
YLV	1.34	10	ePn	36	19.30	-0.3
EDC	1.43	320	ePn	36	21.00	0.1
	S.D. = 0 4	on	6 of	6	obs.	

& MAY 31, 1993 22h 54m 42.32s
64.542 N 147.810 W
DEPTH = 13.0km
CENTRAL ALASKA (1)
<AEIC>. ML 2.7 (AEIC).

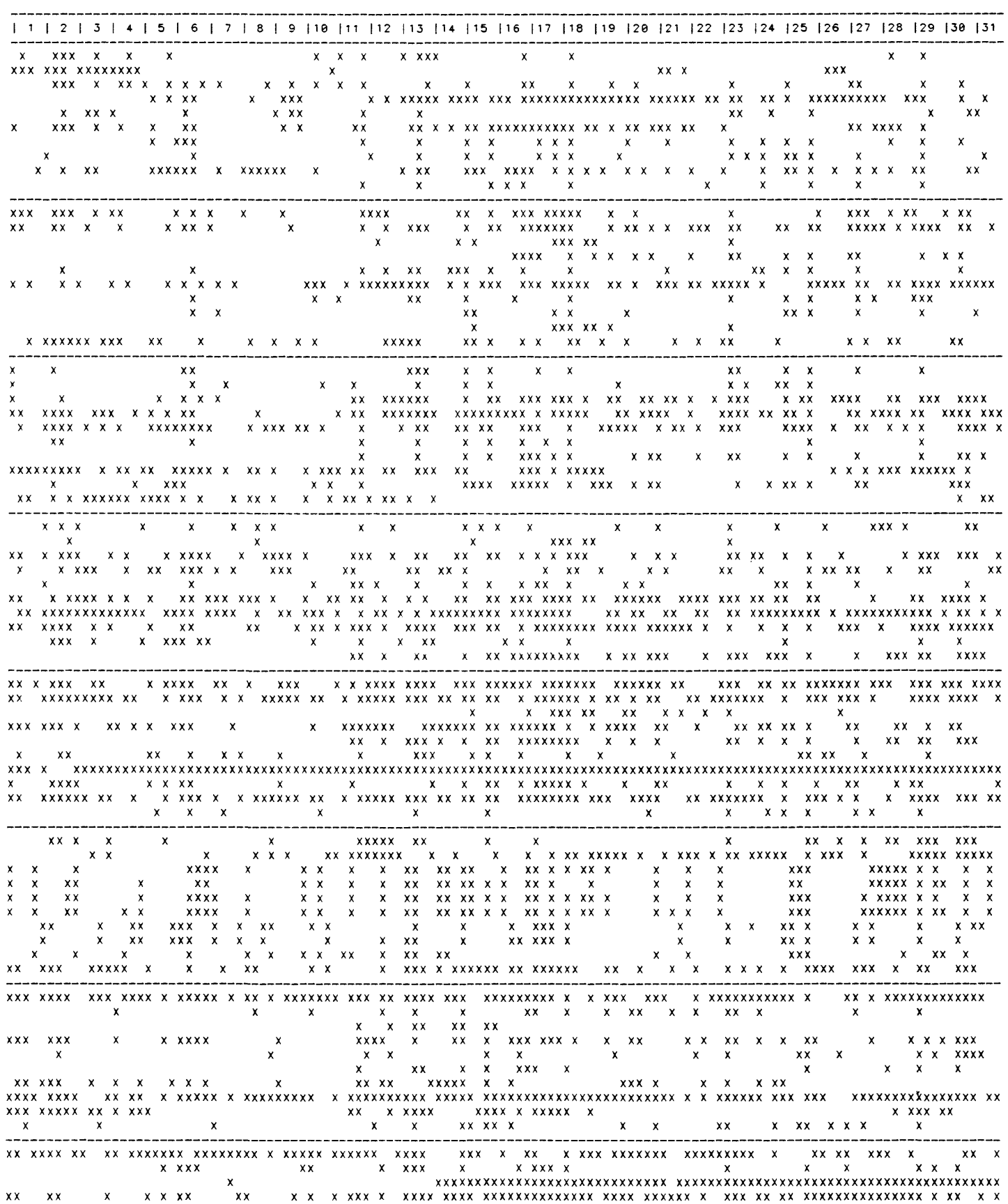
CCB	0.11	1	iPd	54	45.24	-0.2
WRH	0.14	240	ePc	54	45.84	-0.1
FBA	0.36	1	iPd	54	49.32	-0.6
HDA	0.40	110	iPc	54	49.97	-0.6
MDM	0.46	337	iPd	54	51.32	-0.4
			S	54	57.52	
GLM	0.48	22	iPd	54	51.75	-0.4
			eS	54	58.06	
NEA	0.55	274	iPc	54	52.73	-0.6
MCK	0.95	212	iPd	55	00.14	0.0
			eS	55	12.98	
RND	1.23	202	ePd	55	05.21	0.3
			eS	55	21.08	
MLY	1.35	293	iPc	55	05.85	-1.0
			eS	55	24.66	
PRP	1.38	44	eP	55	07.45	0.1
			eS	55	25.17	
THY	1.45	140	eP	55	08.19	0.0
			eS	55	27.96	
TRF	1.55	226	eP	55	09.90	0.2
			eS	55	31.16	
HUR	1.77	208	eP	55	14.72	1.9
			eS	55	36.92	
DOT	1.87	117	ePd	55	12.81	-1.5
			eS	55	36.69	
PAX	1.89	146	eP	55	15.27	0 6
			eS	55	38.87	
SDG	2.26	152	eP	55	19.90	-0 1
FYU	2.30	27	eP	55	20.27	-0.2
			S	55	50.09	
SML	2.75	185	eP	55	27.26	0.3
IMA	2.90	305	ePn	55	32.02	2.9
PMR	3.02	192	eP	55	33.25	2.6
PWA	3.05	199	P	55	33.20	2.2
SKT	3.07	215	eP	55	31.28	-0.1
KLU	3.18	163	eP	55	33.11	0.1
SUA	3.37	205	eP	55	37.29	1.6
CGLM	3.77	212	eP	55	41.52	0.1
CRP	3.84	213	eP	55	41.98	-0.5
TTA	3.99	250	(P)	55	48.82	4.4
			eS	56	46.82	

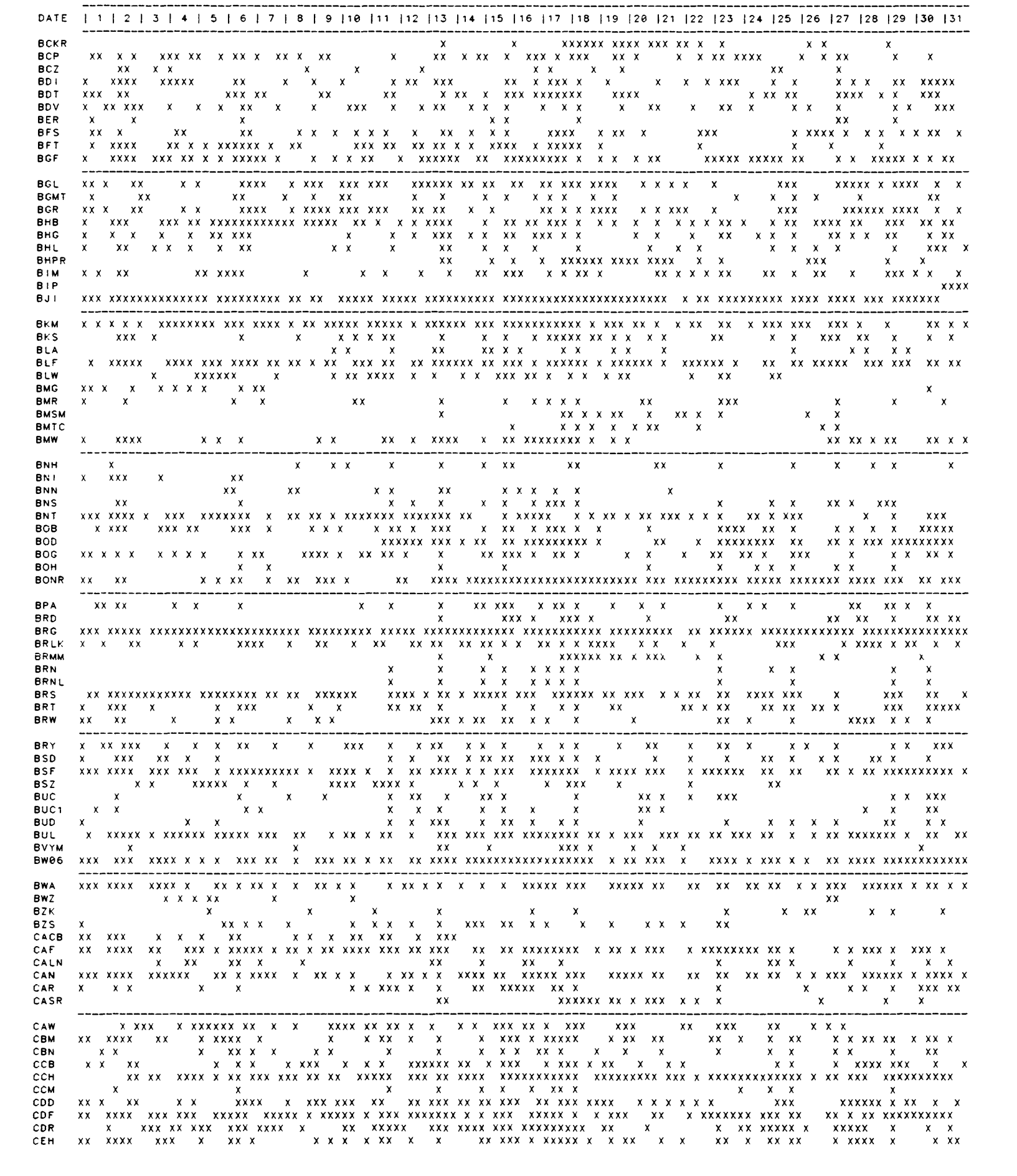
28 obs ossociated

STATION DATA REPORT FOR MAY, 1993

1751 statians reported 90488 reading arrival groups

. X = data received for this 6-hour time periad

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BCP
BCZ
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BDT
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BGF
BGL
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BIM
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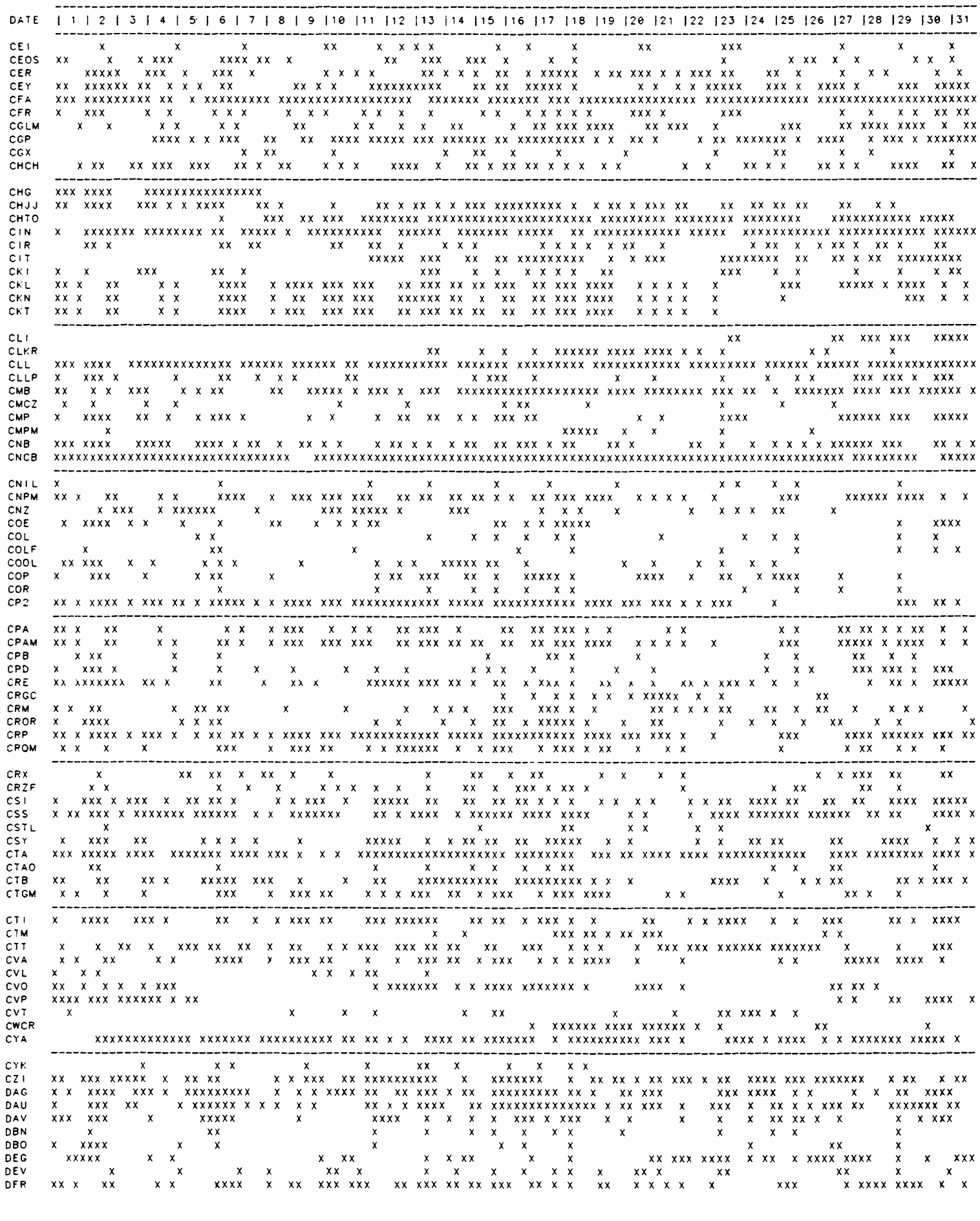
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CGP
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CIN
CIR
CIT
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CKL
CKN
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CLI
CLKR
CLL
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CMB
CMCZ
CMP
CMPM
CNB
CNCB
CNIL
CNPM
CNZ
COE
COL
COLF
COOL
COP
COR
CP2
CPA
CPAM
CPB
CPD
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CRGC
CRM
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CRP
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CRX
CRZF
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CSTL
CSY
CTA
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CTGM
CTI
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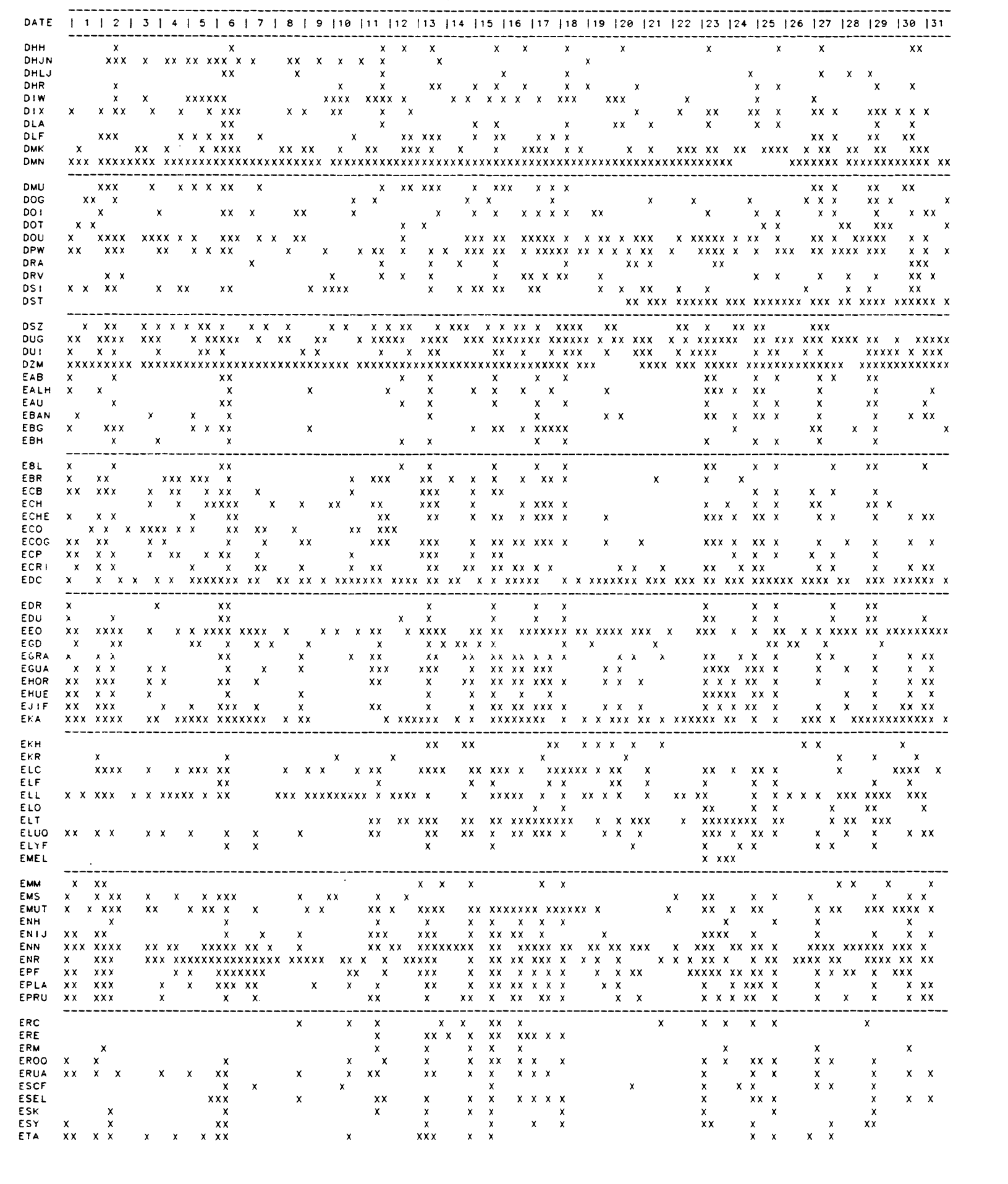
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DHJN
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DHR
DIW
DIX
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DLF
DMK
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DMU
DOG
DOI
DOT
DOU
DPW
DRA
DRV
DSI
DST
DSZ
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DUI
DZM
EAB
EALH
EAU
EBAN
EBG
EBH
E8L
EBR
ECB
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ECOG
ECP
ECRI
EDC
EDR
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EGD
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EHOR
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ELUO
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ENH
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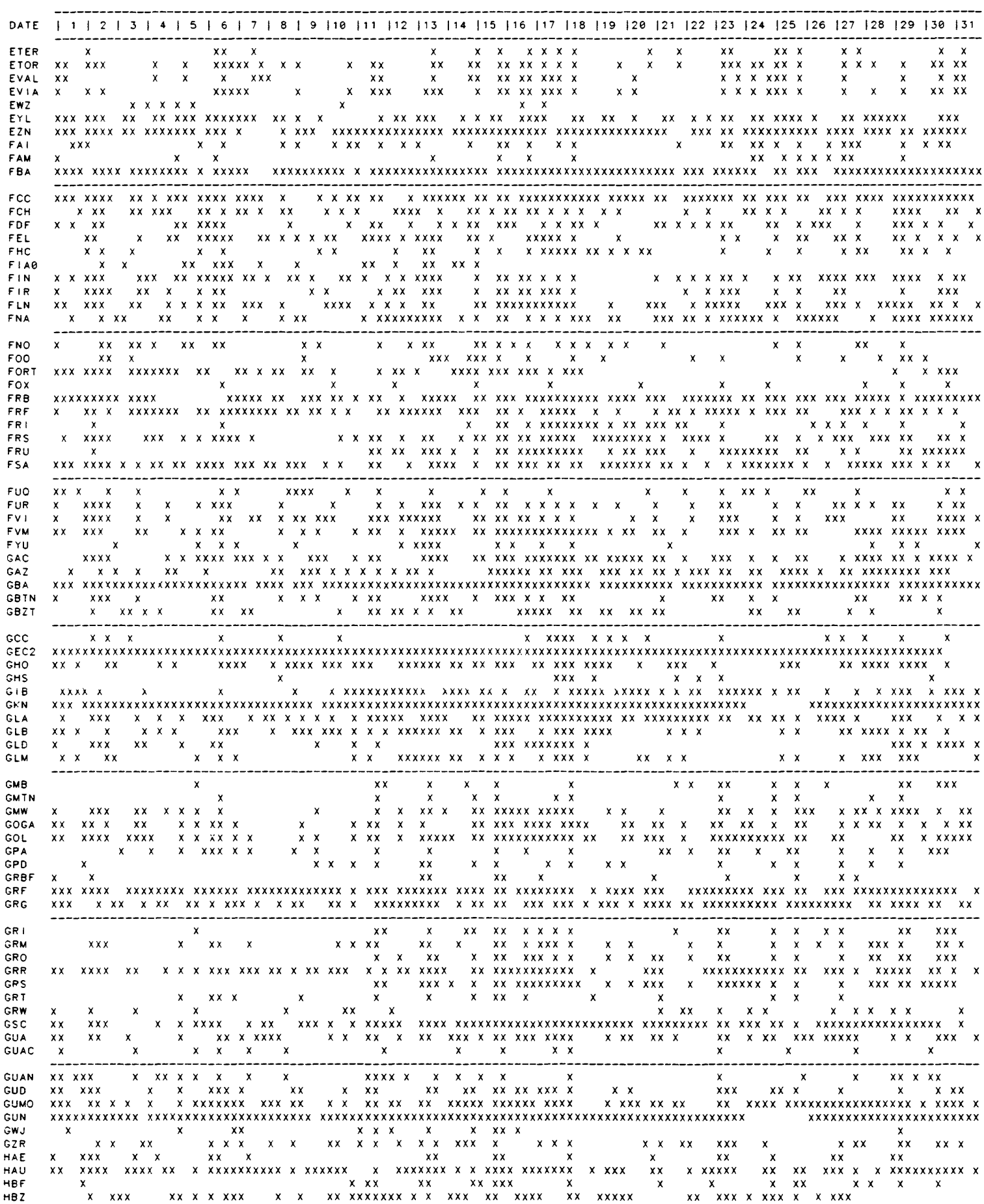
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FHC
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FNA
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FRS
FRU
FSA
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FUR
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FVM
FYU
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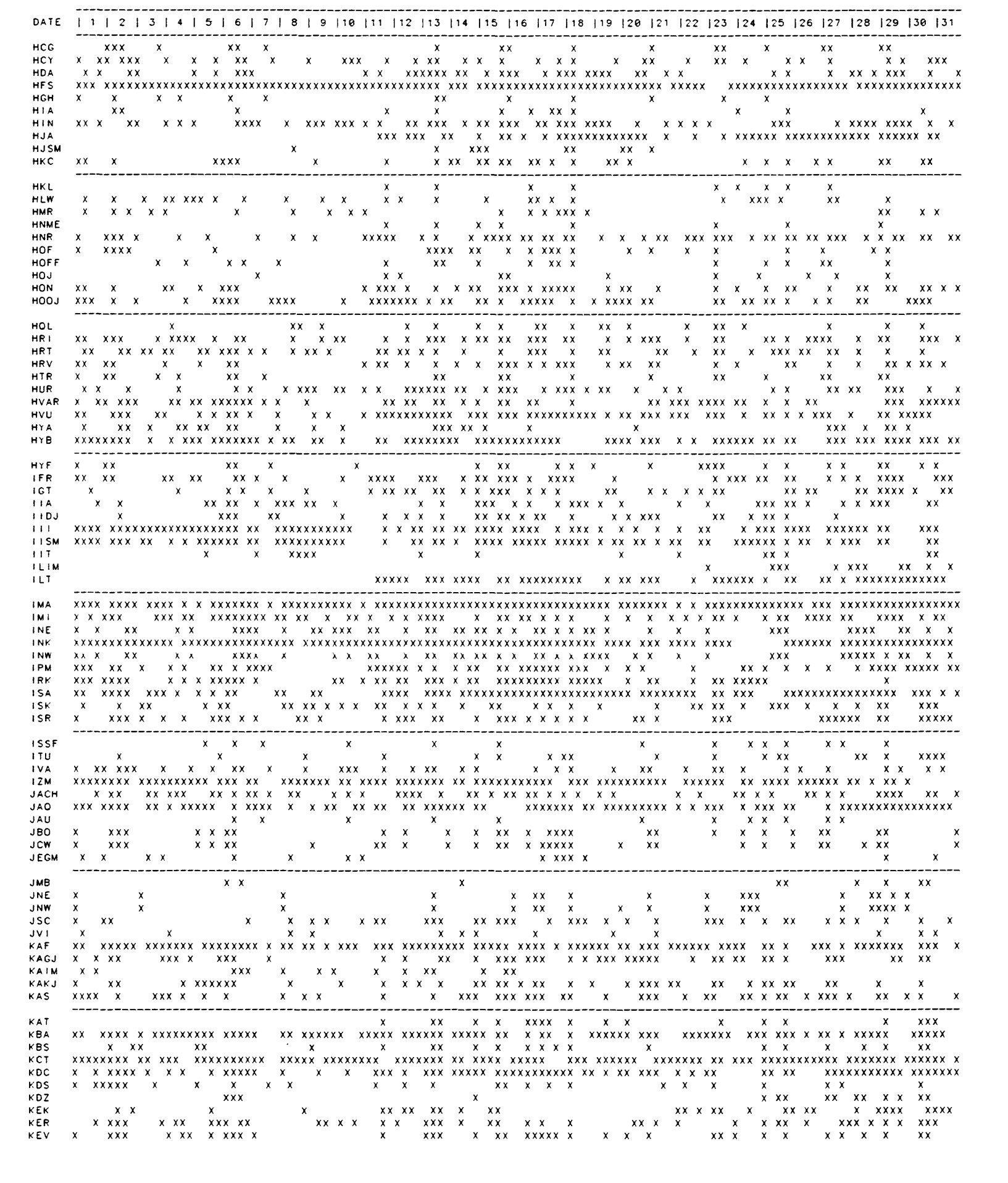
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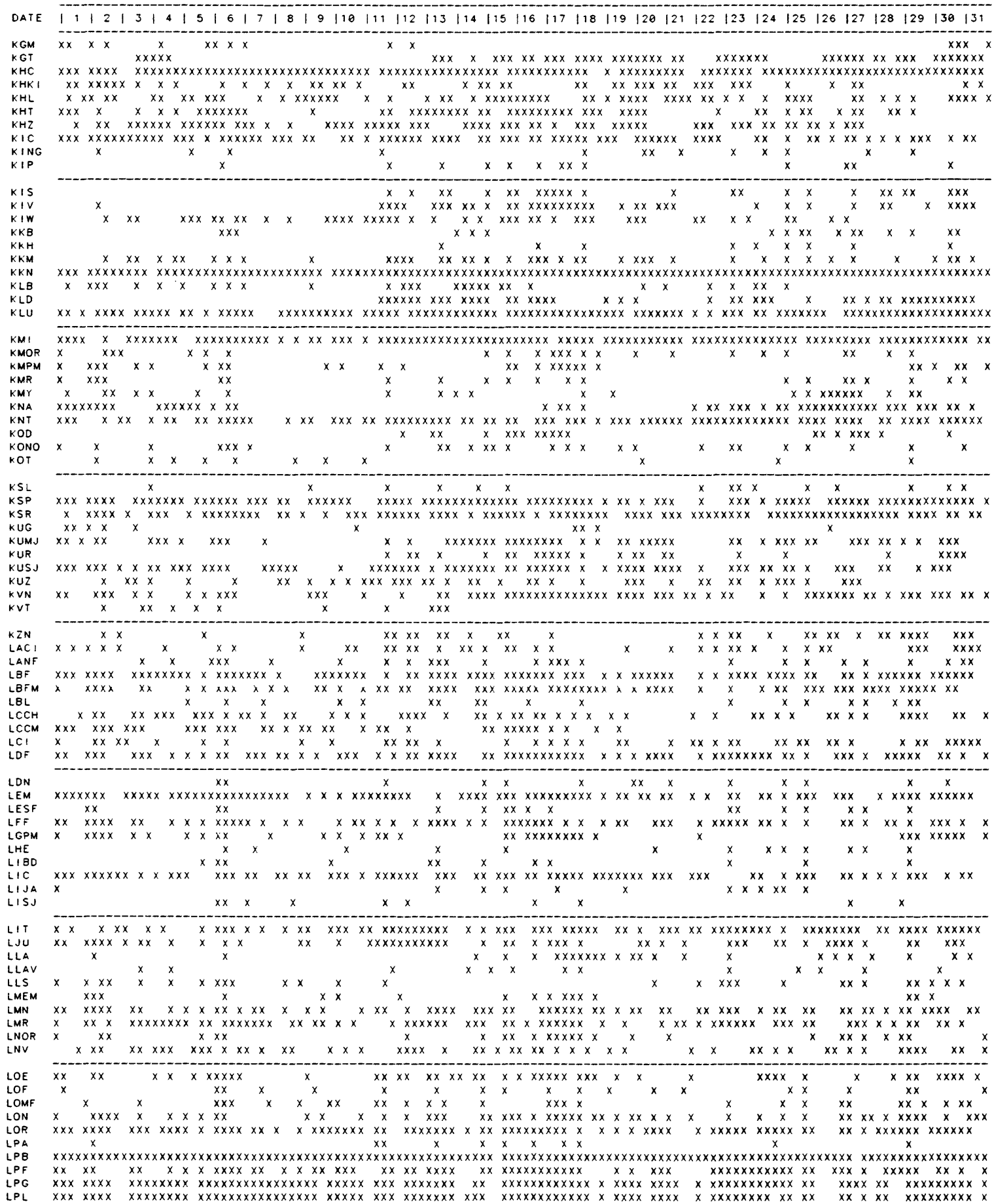
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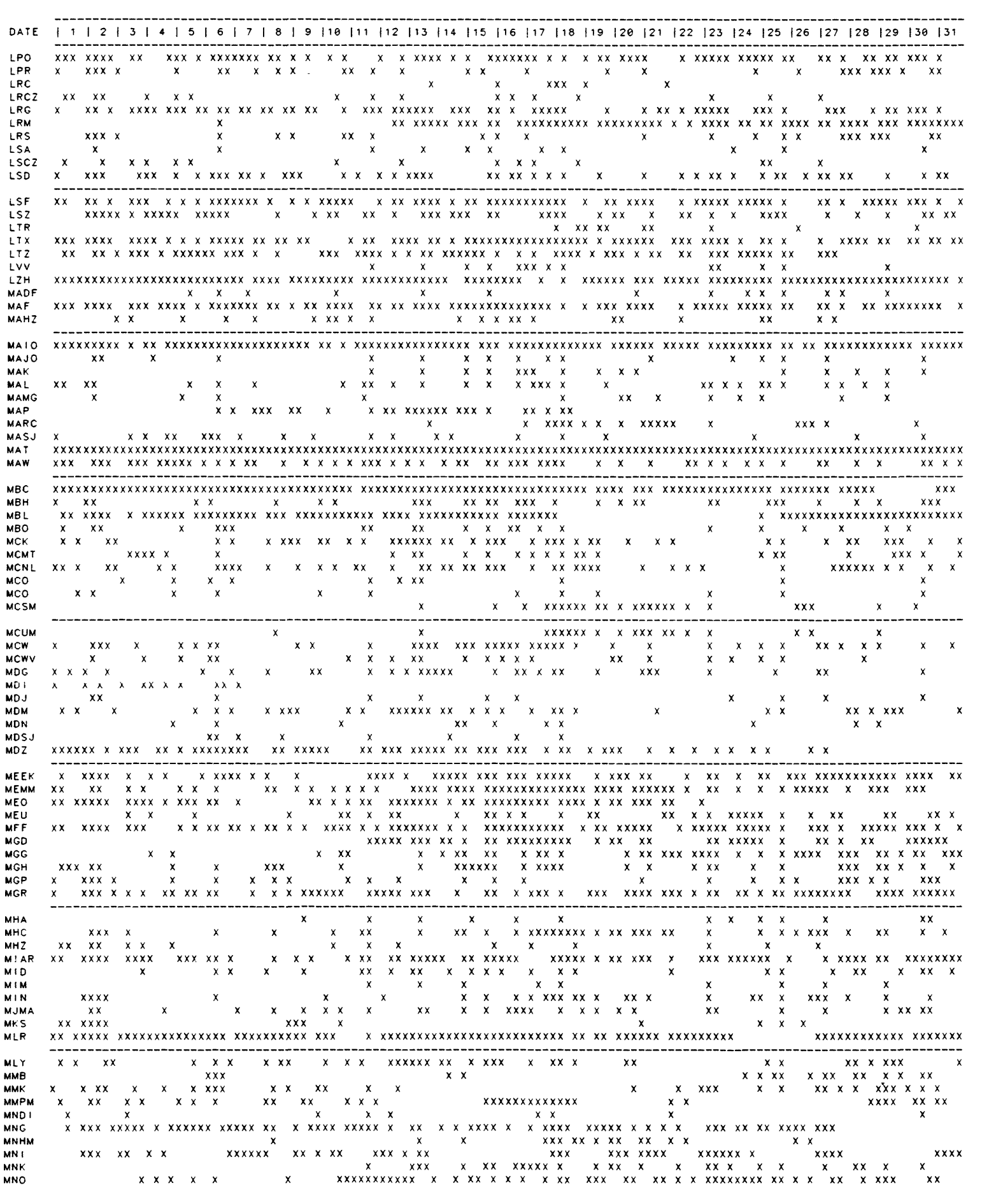
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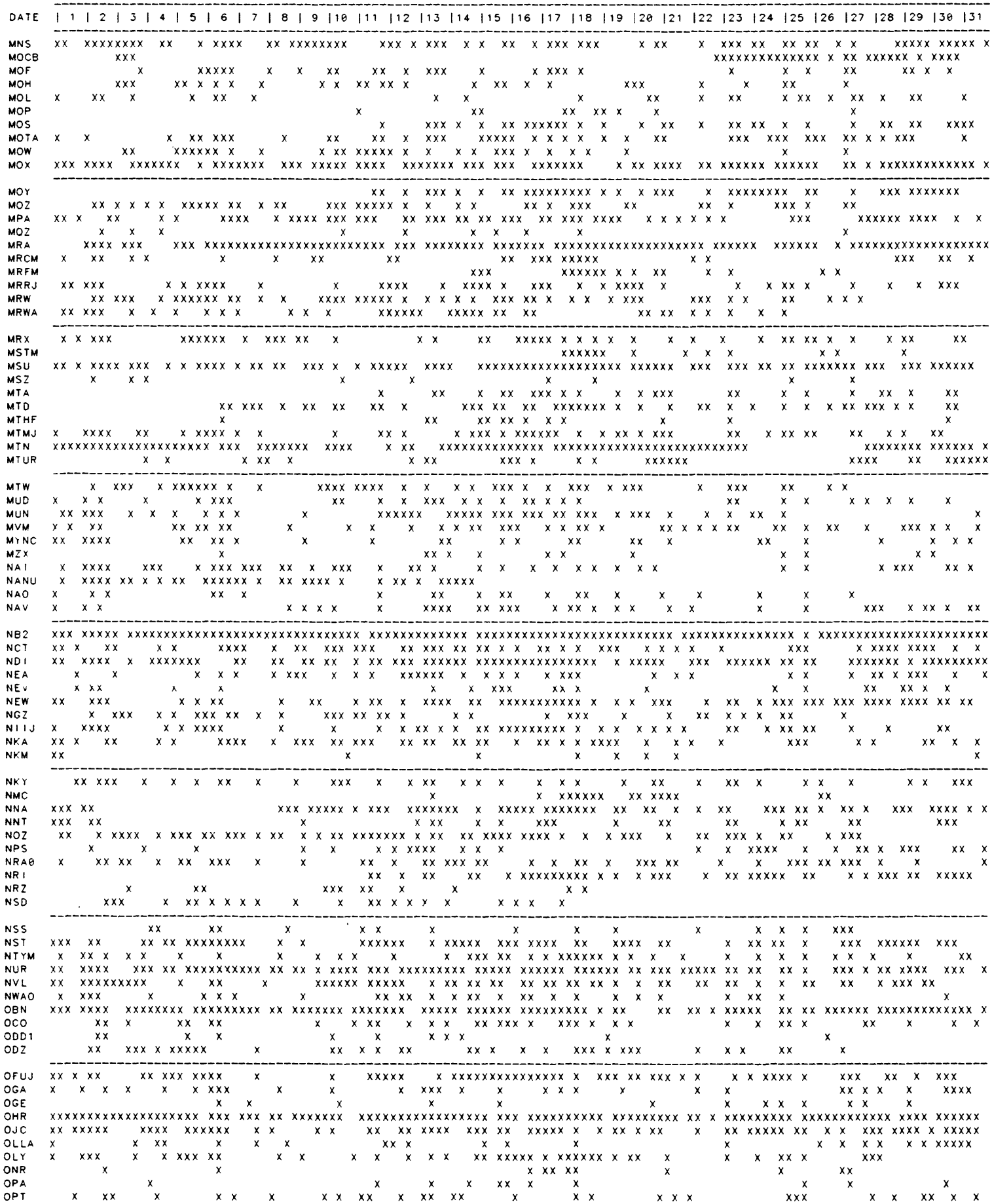
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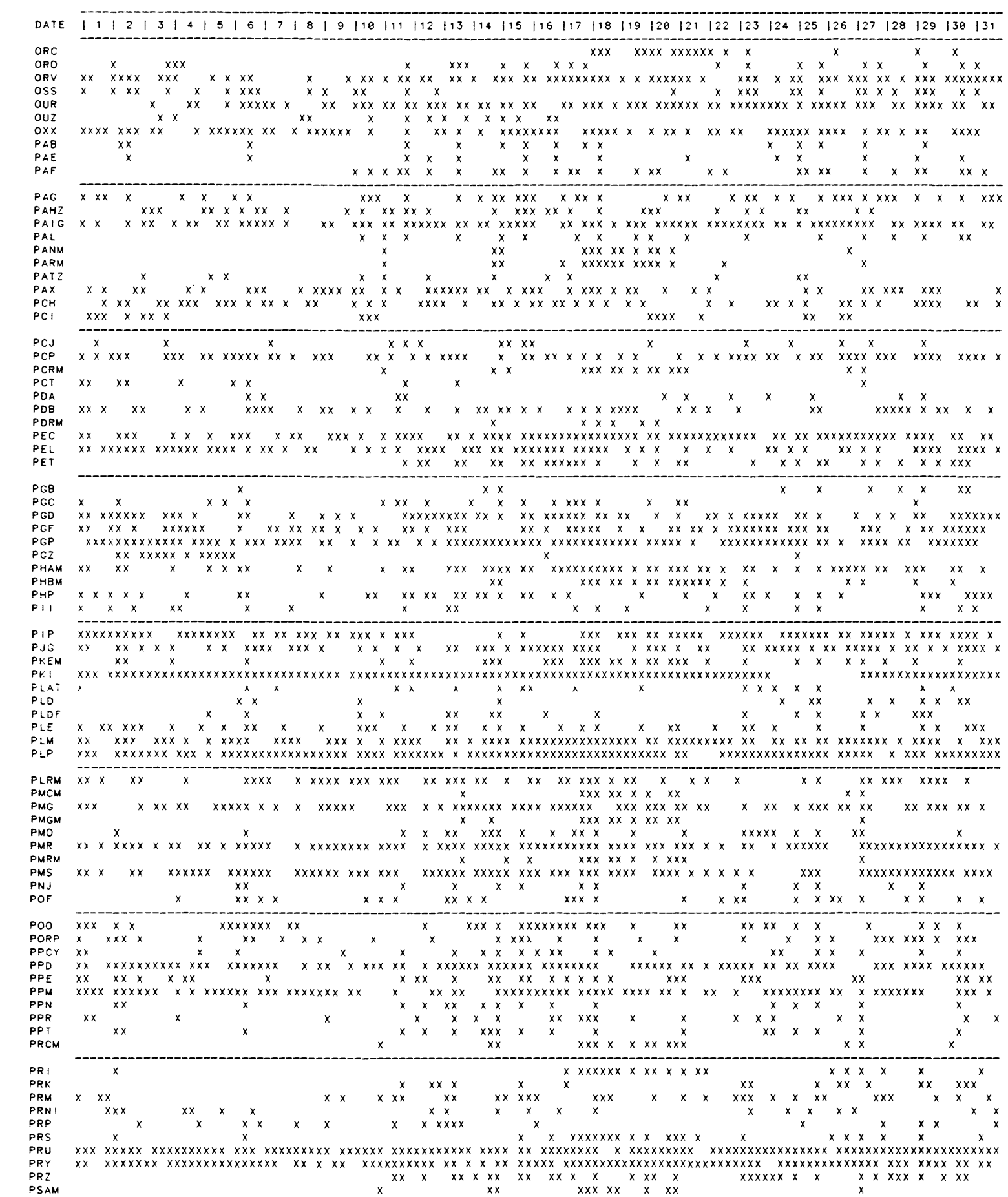
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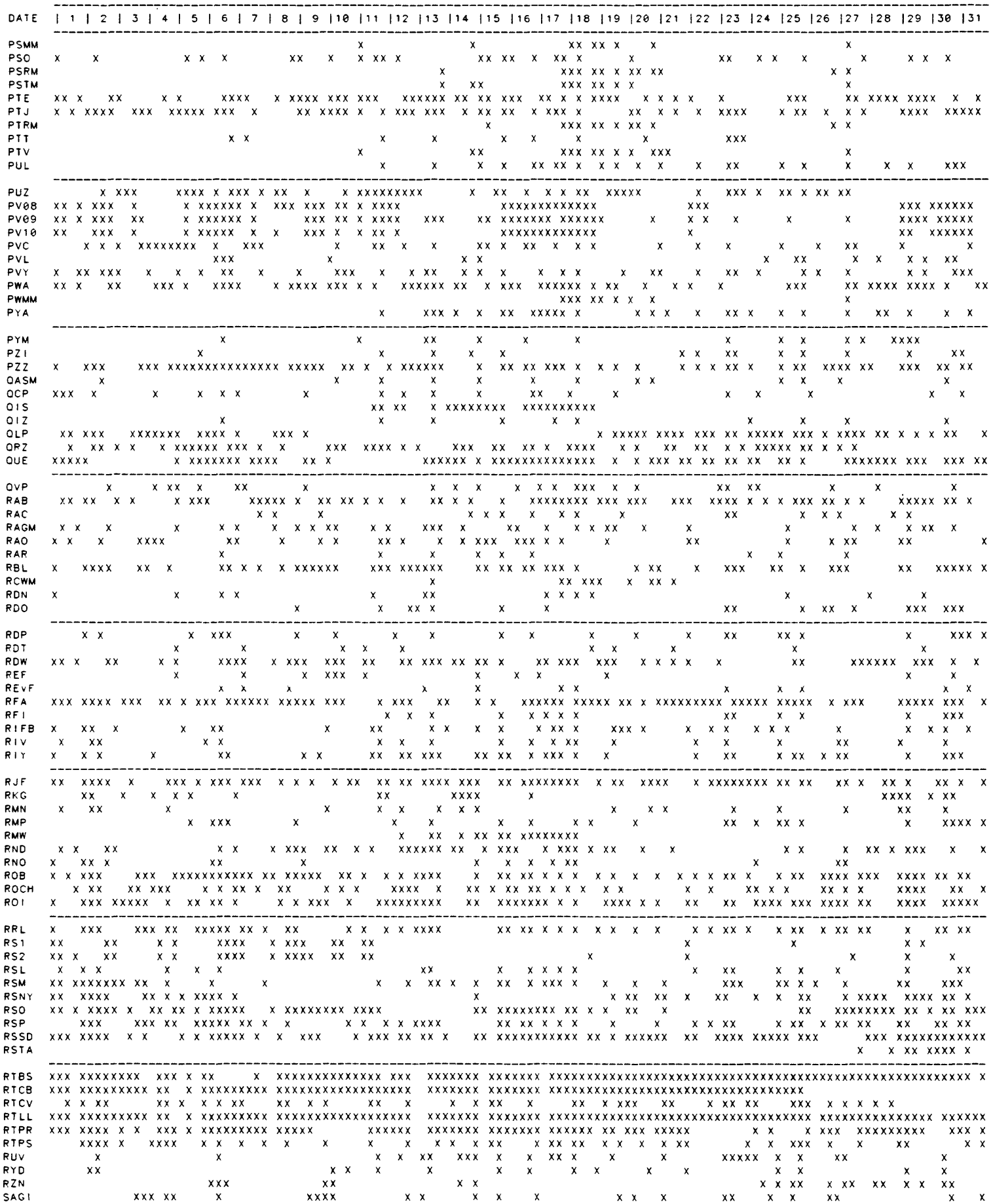
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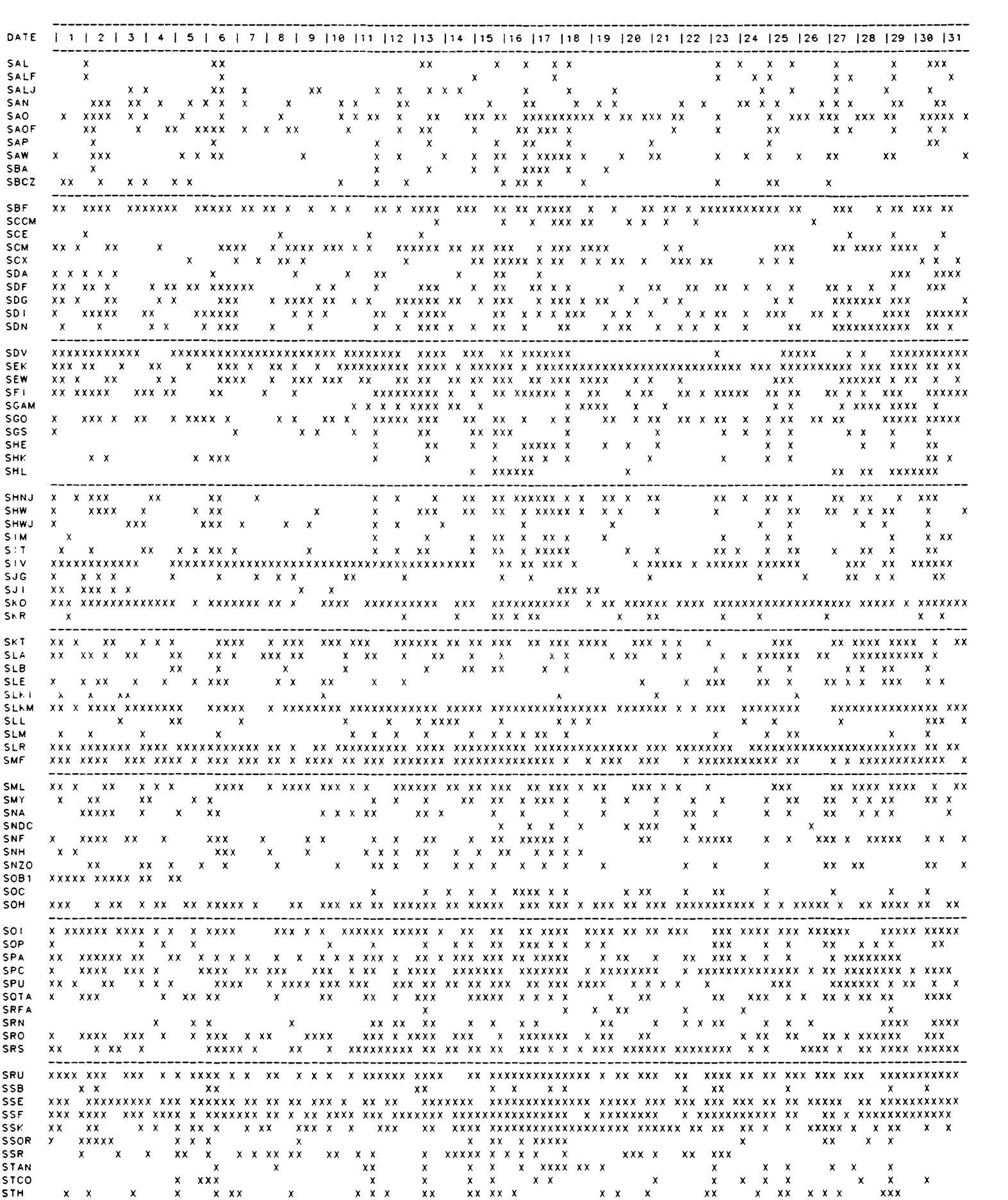
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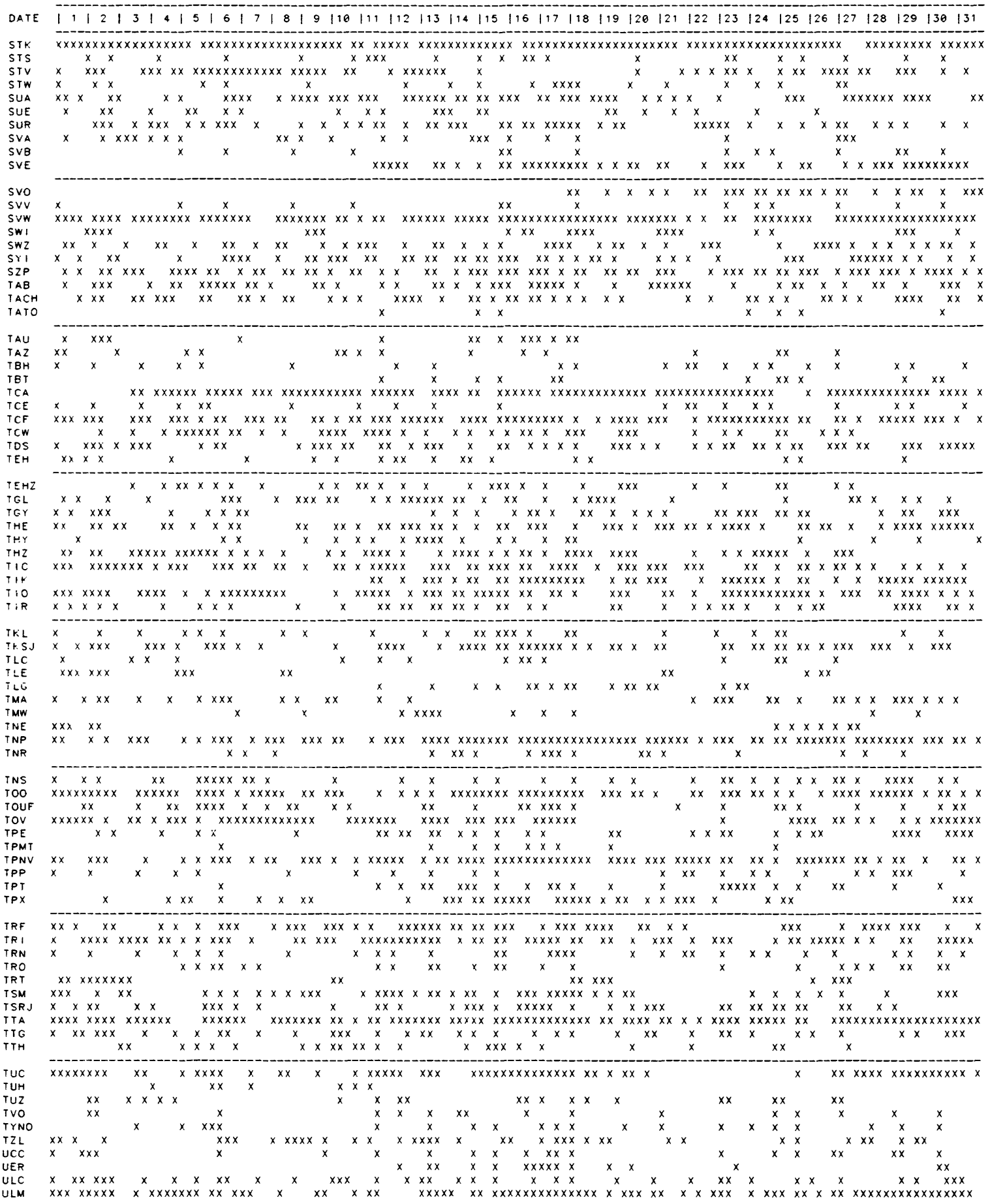
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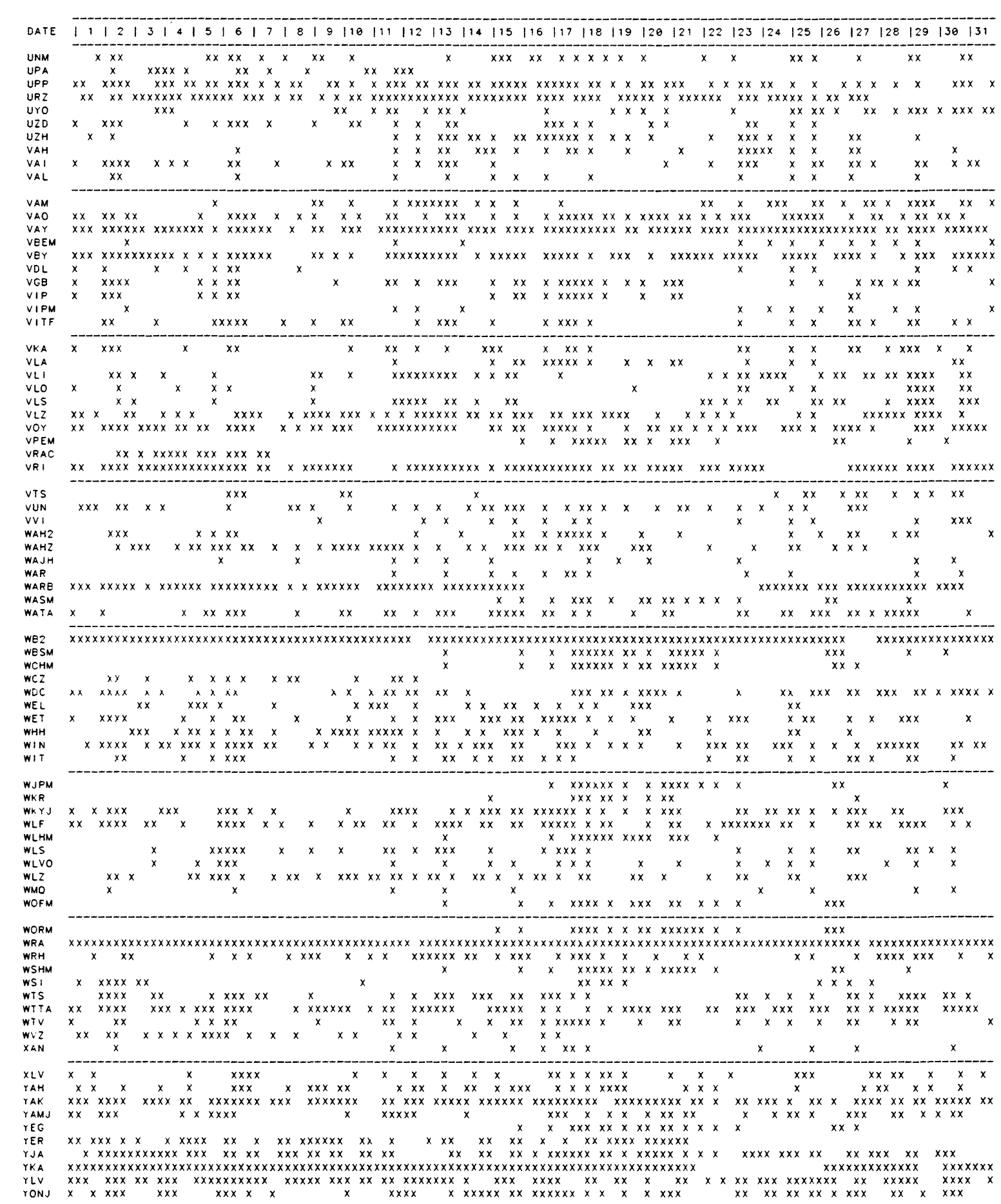
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