UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

EARTHQUAKE DATA REPORT

MARCH 1991

by

U.S. Geological Survey

NATIONAL EARTHQUAKE INFORMATION CENTER[1]

Open File Report 91-603

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1991

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[1]USGS, Denver, Colorado

EDR No. 3-91
Part 1 of 2
P. 1-156

U. S. DEPARTMENT OF THE INTERIOR

Geological Survey

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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_S). 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.

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Hypocenter Symbols

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References

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

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% MAR 01, 1991 00h 39m 56.43± 0.91s
  39.283 N ± 7.7km   29.252 E ±10.1km
  DEPTH = 10.0km (geophysicist)
 TURKEY                          (366)

DST     0.58 304 iPg   40 06.70  -1.5
                 iSg   40 14.20
ALT     0.71 109 iPg   40 10.00  -0.4
                 eSg   40 20.00
KHL     0.98 167 iPg   40 15.50   0.4
                 iSg   40 29.50
IZI     1.07   9 iPg   40 16.00  -0.6
KCT     1.19 325 iPn   40 20.30   1.7
YLV     1.29   4 iPn   40 19.80  -0.5
HRT     1.57  12 ePn   40 25.30   0.9
DMK     2.78 336 ePn   40 47.00   5.2X
      S.D. = 1.3  on  7 of  8 obs.
---------------------------------------
• MAR 01, 1991 01h 03m 52.98± 0.58s
  40.220 S ±12.1km   78.559 E ±10.7km
  DEPTH = 10.0km (geophysicist)
  4.7mb ( 10 obs.) 5.4Msz ( 1 obs.)
 MID-INDIAN RISE                 (429)

SLR    44.02 273 iPc   12 01.00  -1.6
       1.0s    20.00nm          4.9mb
     Z 20s     9.22um           5.7MszX
BUL    46.91 280 iPd   12 26.10   0.4
       1.0s    15.50nm          5.0mb
ASPA   49.01  88 eP    12 41.80  -0.1
       1.1s     9.90nm          4.8mb
     Z 19s     8.30um           5.7MszX
SPA    49.97 180 eP    12 50.00   1.0
       1.4s    39.22nm          5.2mb
     Z 20s     9.46um           5.8MszX
KOD    50.21 359 eP    12 53.00   1.7
WRA    51.45  84 P     13 00.00  -0.6
       1.2s     5.00nm          4.3mb
WB2    51.46  84 iPd   13 00.70   0.1
       0.8s     2.60nm          4.2mb
GBA    53.56 359 Pd    13 14.70  -1.4
       0.9s     5 00nm          4.5mb
HYB    57.34 360 eP    13 44.50   1.0
                 eS    21 44.00
POO    58.61 355 eP    13 53.50   1.0
LWI    58.72 297 iP+   13 49.00  -4.6X
CHG    61.72  22 eP    14 18.30   4.5X
CHTO   61.72  22 eP    14 12.90  -0.9
       1.1s     3 24nm          4.4mb
PKI    67.74   7 P     14 52.20  -0.9
DMN    67.76   6 P     14 52.40  -0.7
KKN    67.95   6 P     14 53.40  -0.8
GKN    68.11   6 P     14 54.60  -0.6
GUN    68.12   7 P     14 55.00  -0.5
BAG    68.57  44 eP    15 08.00   9.7X
KMI    68.80  23 eP    15 10.00  10.4X
     Z 22s     1.60um           5.2MszX
               S     24 06.00
               i     28 40.00
LSA    70.54  12 P     15 13.00   2.6
     Z 33s     5.90um           5.6MszX
               eS    24 25.00
BCAO   70.61 294 iPc   15 11.00   0.3
       0.9s     9.00nm          4.9mb
QUE    70.88 349 eP    15 13.10   1.0
GYA    71.31  26 P     15 16.00   1.2
     Z 28s     0.90um           4.9MszX
               S     24 36.00
XAN    79.03  25 eP    15 58.00  -0.6
     E 20s     1.90um
               eS    25 58.00
LZH    79.42  21 eP    16 00.00  -0.8
       2.0s    21.00nm          4.8mb
GTA    81.60  16 eP    16 12.00  -0.2
     Z 20s     1.60um           5.4Msz
     E 15s     0.80um
               pP    16 17.00  16kmX
               sP    16 22.00
               S     26 24.00
TAB    83.32 335 eP    16 22.00   0.8
TIY    83.55  26 eP    16 23.00   0.7
     Z 24s     1.10um           5.2MszX
     E 15s     0.60um
               S     26 43.50
WMO    84.06   7 eP    16 22.50  -2.3
     Z 28s     2.40um           5.4MszX

BTO    85.39  23 eP    16 32.00   0.5
               eS    27 03.00
HHC    86.10  24 eP    16 35.60   0.6
     Z 24s     1.10um           5.2MszX
LKO    91.66 281 P     17 06.24   4.4X
INK   146.96  21 ePKP  23 33.00  -1.1
FRB   149.54 332 ePKP  23 57.00  18.7X
YKA   156.32  15 ePKP  23 54.00   6.1X
       1.1s     1.10nm
      S.D. = 1.1  on  29 of  36 obs.
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• MAR 01, 1991 01h 43m 22.93± 0.91s
  8.771 N ±12.4km  125.651 E ± 9.5km
  DEPTH = 10.0km (geophysicist)
  4.4mb ( 5 obs.)
 MINDANAO, PHILIPPINE ISLANDS    (259)

CGP     1.00 252 ePd   43 41.00  -0.8
                 eS    44 03.00
DAV     1.67 183 eP    44 02.80  10.4X
MAP     2.26 313 iPd   44 01.00   0.1
                 iS    44 23.00
BAG     9.06 327 eP    45 36.00  -1.0
CHG    27.75 294 eP    49 14.10   0.1
CHTO   27.75 294 iP    49 14.20   0.2
       1.0s     4.50nm          4.2mb
GUN    42.02 302 P     51 17.60   0.8
       0.8s    23.00nm          5.0mb
PKI    42.31 302 P     51 20.00   0.9
KKN    42.49 302 P     51 20.80   0.4
DMN    42.58 302 P     51 21.50   0.3
GKN    43.09 302 P     51 24.60  -0.7
GBA    47.48 280 Pc    52 00.80   0.5
       0.7s     2.50nm          4.4mb
INK    85.90  21 eP    56 04.00   0.0
MBC    87.30  13 eP    56 11.00   0.3
       0.6s     2.00nm          4.6mb
YKA    95.37  24 eP    56 47.50  -1 0
       0.8s     0.50nm          4.0mb
      S.D. = 0.7  on  14 of  15 obs.
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  MAR 01, 1991 01h 57m 03.15± 0.14s
  72.163 N ± 3.0km  126.820 E ± 2.6km
  DEPTH = 18.8km ( 22 depth phases)
  5.2mb ( 55 obs.) 5.0Msz ( 6 obs.)
 CENTRAL SIBERIA                 (726)
      Felt (IV) ot Tiksi.

BRW    22.51  55 P     02 03.40   1.1
ANM    24.73  73 ePc   02 26.10   2.2
MBC    26.63  29 ePc   02 42.50   0.9
       1.0s    41.00nm          5.0mb
IMA    26.94  62 ePc   02 45.80   1.1
       0.7s    12.30nm          4.7mb
KEV    29.13 315 eP    03 10.00   5.7X
FBA    29.42  60 ePc   03 08.20   1.2
       0.7s     8.60nm          4.6mb
DAG    29.87 345 eP    03 10.00  -0.8
       1.1s    20.25nm          4.9mb
INK    30.24  47 eP    03 14.50   0.3
SVW    30.25  70 eP    03 15.00   0.5
SOD    31.12 313 iP    03 22.00   0.1
                 i     03 31.00  31kmX
PMR    31.70  65 P     03 26.80  -0.3
       0.9s    14.58nm          4.9mb
PDB    31.74  71 P     03 28.60   1.1
                 pP    03 33.80  18km
TOA    32.10  62 ePc   03 32.30   1.6
BJI    32.64 195 eP    03 36.00   0.6
       1.0s    80.00nm          5.6mb
     Z 16s     2.61um           5.0MszX
     N 11s     2.01um
               Lg    13 14.00
KLU    32.67  63 P     03 35.10  -0.6
NIIJ   35.55 163 P     04 00.30  -0.2
KAF    35.59 307 iP    04 00.50  -0.2
       0.5s     5.30nm          4.7mb
MTMJ   36.09 165 P     04 05.60   0.3
MAT    36.17 164 (P)   04 05.00  -0.9
       0.9s    13.45nm          4.8mb
CHJJ   36.73 163 P     04 10.50   0.0
IIDJ   37.20 165 P     04 14.80   0.2
NUR    37.39 307 eP    04 16.00   0.2
LZH    38.03 211 iPd   04 23.00   1.3
       3.0s     0.38nm          2 7mb X
LZH    38.03 211 eP    04 31.50   9.8X
     Z 13s     2.90um           5.3MszX

     N 12s     2.26um
               i     05 43.00 367kmX
               i     10 12.00
               eS    10 15.00
GDH    38.83   0 iPc   04 29.00   1.2
       0.6s    13.33nm          4.8mb
               e     12 15.00
YKA    39.27  40 eP    04 44.50  12.9X
       0.6s     3.60nm
UPP    39.63 312 iP    04 35.70   1.1
NB2    39.98 317 P     04 37.60   0.0
       0.6s    18.70nm          5.0mb
HFS    40.27 315 eP    04 39.90   0.1
       0.4s     5.80nm          4.6mb
SSE    41.24 187 Pc    04 47.50  -0.5
       1.0s    49.00nm          5.2mb
     Z 20s     0.60um           4.5Msz
               e(S)  11 44.00
               e     28 37.00
FRB    43.95  10 eP    05 11.00   1.2
KRA    47.96 304 iPd   05 42.20   0.3
       0.7s    34.00nm          5.5mb
               e     05 43.90   6kmX
               i     05 50.70
EDM    48.09  45 eP    05 43.00   0.1
EKA    48.12 324 P     05 44.00   1.0
       1.5s    77.70nm          5.5mb
KSP    48.15 307 iPd   05 43.80   0.5
       0.8s    25.00nm          5.3mb
               i     05 49.50  19km
               i     05 58.60
CLL    48.51 310 iPd   05 46.20   0.1
       1.0s    33.00nm          5.3mb
SPC    48.68 303 eP    05 47.40  -0.3
BRG    48.69 309 iP    05 57.60  10.1X
       1.0s    30.00nm
               i     07 35.10 513kmX
FFC    48.92  35 iPd   05 48.30  -0.9
       0.7s    14.00nm          5.1mb
KMI    48.95 209 Pd    05 49.50  -0.5
       1.5s    84.00nm          5.5mb
     Z 15s     1.80um           5,2MszX
               pP    05 56.20  22km
BMR    49.22 300 ePc   06 09.00  17.4X
WTS    49.28 315 eP    05 52.00   0.1
       1.2s    30.00nm          5.2mb
PRU    49.37 308 Pd    05 53.20   0.5
               e     06 03.00  33kmX
               e     07 43.50
MOX    49.45 311 iP    05 54.00   0.6
       1.4s    39.00nm          5.2mb
GUN    49.53 230 Pd    05 55.20   0.5
GKN    49.74 231 Pd    05 56.20   0.2
KKN    49.79 230 Pd    05 57.00   0.5
PKI    49.97 230 P     05 58.00   0.0
DMN    50.01 230 P     05 58.40   0.2
PNT    50.30  51 eP    06 00.00   0.1
       0.7s    13.00nm          5.0mb
ZST    50.40 305 eP    05 57.30  -3.3X
KHC    50.40 308 Pd    06 01.20   0.5
     Z 17s     0.70um           4.7MszX
     N 17s     0.60um
     E 17s     0.70um
               e     08 04.50 719kmX
GRF    50.44 311 iPd   06 01.80   0.9
       1.1s    27.00nm          5.1mb
               ec    06 07.60  19km
               e     06 11.50
WET    50.55 309 iPc   06 02.90   1.1
MLR    50.56 297 ePc   06 11.50   9.5X
BUD    50.57 303 e(P)  06 03.00   1.1
CMP    51.01 297 ePc   06 08.00   2.6
ETA    51.18 325 eP    06 12.00   5.5X
SNF    51.22 316 P     06 08.10   1.3
SES    51.24  44 eP    06 07.00  -0.1
       0.9s    57.00nm          5.5mb
TAB    51.37 275 e(P)  06 09.00   0.7
DOU    51.54 316 P     06 09.70   0.4
ECP    51.71 325 eP    06 11.00   0.6
BHG    51.88 308 iPc   06 12.70   0.8
DPW    51.99  51 P     06 12.80   0.0
               pP    06 18.40  19km
LON    52.16  54 P     06 14.00  -0.1
               pP    06 19.30  18km
KBA    52.37 308 iPd   06 17.10   1.3
       0.9s    23.10nm          5.1mb
               i     06 26.90  32kmX
```

01d 02h

		e	08 29.00			
QUE	52.42	251 iPd	06 16.50	0.1		
	1.0s	940.00nm		6.7mb X		
		ePP	06 25.10			
		e(S)	13 44.50			
CDF	52.54	313 eP	06 16.80	-0.2		
SHW	52.57	55 P	06 18.00	0.7		
		pP	06 23.40	18km		
WTTA	52.61	309 iPd	06 18.10	0.5		
	0.8s	14.50nm		5.0mb		
		i	06 27.00	29kmX		
SOTA	52.75	309 iPd	06 18.80	0.2		
		i	06 31.40	45kmX		
SCH	52.96	10 eP	06 19.00	-0.9		
FVI	52.96	308 P	06 20.20	0.2		
BSF	53.20	313 eP	06 21.10	-0.8		
	0.8s	16.10nm		5.0mb		
VGB	53.57	54 P	06 24.60	0.1		
CTI	53.75	309 P	06 25.00	-0.9		
BBTK	53.82	288 iPd	06 27.50	1.0		
FLN	53.86	319 eP	06 26.00	-0.6		
	0.8s	28.20nm		5.3mb		
LDF	53.95	319 eP	06 26.70	-0.5		
	0.8s	25.50nm		5.3mb		
YLV	54.14	291 eP	06 28.30	-0.5		
GRR	54.30	319 eP	06 29.20	-0.6		
	0.8s	26.85nm		5.3mb		
LOR	54.38	315 eP	06 29.60	-0.8		
	1.1s	34.20nm		5.3mb		
LBF	54.62	315 eP	06 31.40	-0.9		
	1.1s	35.40nm		5.3mb		
SSF	54.65	316 eP	06 31.90	-0.5		
	1.2s	43.15nm		5.4mb		
LPF	54.67	319 eP	06 32.30	-0.2		
	0.9s	58.95nm		5.6mb		
AVF	54.94	316 eP	06 33.90	-0.7		
	1.0s	18.00nm		5.1mb		
GAZ	54.97	283 iP	06 35.90	1.1		
SKO	55.05	299 eP	06 28.00	-7.4X		
		i	06 32.50	15km		
LRM	55.26	47 eP	06 37.00	-0.2		
		e	06 42.70	19km		
BGF	55.27	316 eP	06 36.30	-0.7		
	0.6s	9.90nm		5.0mb		
LPL	55.40	312 eP	06 38.00	-0.2		
LPG	55.41	312 eP	06 38.20	-0.2		
MAF	55.65	316 eP	06 39.10	-0.6		
	0.9s	13.10nm		5.0mb		
TCF	55.66	316 eP	06 39.40	-0.4		
	1.3s	34.30nm		5.2mb		
MME	55.72	309 P	06 41.50	1.0		
CHG	55.74	212 ePd	06 39.90	-0.7		
	1.0s	20.50nm		5.1mb		
LSF	55.85	317 eP	06 40.60	-0.5		
	1.1s	29.30nm		5.2mb		
MFF	55.86	318 eP	06 41.00	-0.2		
	1.0s	30.00nm		5.3mb		
FIR	55.98	308 e(P)	06 38.00	-4.0X		
OHR	56.02	299 eP	06 41.50	-1.0		
RJF	56.75	316 eP	06 47.10	-0.5		
CAF	56.99	316 eP	06 49.40	0.0		
	1.4s	45.75nm		5.3mb		
LFF	57.26	317 eP	06 51.20	0.0		
	1.2s	50.60nm		5.4mb		
BDT	57.26	212 eP	06 47.80	-3.7X		
	1.0s	48.30nm		5.5mb		
LPO	57.41	317 eP	06 52.30	0.0		
	1.1s	31.75nm		5.3mb		
WDC	57.74	57 ePd	07 00.00	5.3X		
ORI	58.16	302 P	06 57.50	-0.1		
TDS	58.57	302 P	07 00.80	0.4		
NST	58.63	210 eP	07 02.50	1.5		
RSSD	58.68	41 P	07 01.20	-0.3		
		pP	07 06.20	16km		
BW06	58.80	46 P	07 01.20	-1.1		
		pP	07 07.00	19km		
ORV	58.98	57 eP	07 08.20	4.9X		
HRI	59.03	282 eP	07 03.50	-0.4		
EPF	59.17	317 eP	07 04.20	-0.5		
	0.5s	6.90nm		5.0mb		
BTH	59.20	317 P	07 08.00	3.2X		
		S	15 42.00			
PCT	59.40	209 eP	07 06.70	0.3		
KHT	59.74	212 eP	07 08.50	-0.3		
KVN	60.32	54 P	07 13.10	0.3		
		pP	07 19.10	20km		
KFNJ	60.36	282 P	07 11.80	-1.0		
BKS	60.37	58 eP	07 14.70	1.8		
MDSJ	60.40	281 P	07 12.30	-1.0		
DUG	60.51	49 P	07 13.80	-0.2		
	0.9s	28.20nm		5.4mb		
		pP	07 19.70	19km		
MKRJ	60.66	282 P	07 13.80	-1.2		
DAU	60.67	48 P	07 15.20	-0.1		
CMB	60.70	57 P	07 15.00	-0.2		
	1.0s	16.67nm		5.1mb		
		pP	07 21.00	20km		
DSI	60.72	282 iPd	07 14.80	-0.5		
CBM	60.74	12 P	07 16.00	0.7		
		pP	07 21.30	17km		
BDNR	61.30	55 P	07 19.80	0.2		
		pP	07 26.00	20km		
HYB	61.39	234 iPd	07 18.30	-1.7		
	1.0s	25.00nm		5.3mb		
		e	07 28.00	32kmX		
TNP	61.46	54 P	07 20.20	-0.3		
		pP	07 26.20	20km		
NNT	61.71	210 iPc	07 22.20	0.0		
FRI	61.86	56 eP	07 28.50	5.5X		
PRNI	61.98	282 iPd	07 23.30	-0.6		
RSNY	62.62	17 P	07 28.00	0.0		
	1.2s	43.73nm		5.5mb		
GLD	62.63	43 P	07 28.00	-0.3		
	Z 20s	0.75um		4.9Msz		
GOL	62.65	43 P	07 28.10	-0.5		
	0.8s	16.37nm		5.2mb		
	Z 20s	1.00um		5.0Msz		
		pP	07 33.80	18km		
HBVT	62.94	16 P	07 30.00	0.0		
ISA	63.43	56 eP	07 33.00	-0.5		
CLC	63.51	55 eP	07 40.00	6.0X		
HLW	63.53	285 eP	07 34.00	-0.1		
GSC	64.20	54 eP	07 39.00	0.4		
GBA	65.33	234 Pd	07 43.30	-2.6		
	0.8s	9.80nm		5.0mb		
TBR	66.03	17 P	07 49.80	-0.3		
GLA	66.83	54 eP	07 55.00	-0.4		
SNG	66.89	208 eP	07 56.10	0.2		
ANMO	66.98	46 P	07 55.30	-1.3		
	Z 20s	06um		5.1Msz		
ALO	66.98	4[illegible]	07 55.00	-1.6		
	1.1s	1.[illegible]6nm		5.0mb		
	Z 20s	1.95um		5.3Msz		
		e	08 01.00	19km		
FVM	67.10	31 P	07 55.50	-1.5		
		pP	08 01.60	20km		
ELC	67.97	30 P	08 01.50	-1.0		
KOD	68.56	233 eP	08 06.40	-0.3		
BLA	69.26	23 P	08 09.20	-1.3		
	0.8s	10.07nm		5.0mb		
IPM	69.39	208 ePd	08 12.50	1.1		
RSCP	70.17	28 P	08 15.30	-0.8		
	Z 20s	1.13um		5.1Msz		
TKL	70.36	26 P	08 15.70	-1.5		
		pP	08 22.10	21km		
JSC	72.05	24 P	08 26.40	-0.9		
		pP	08 32.60	20km		
PRM	72.10	25 P	08 26.80	-0.9		
NAI	91.21	270 iP	10 11.00	2.8		
BCAO	91.34	289 iPd	10 08.70	0.1		
	0.9s	18.00nm		5.4mb		
		i	10 19.20	33kmX		
WRA	92.01	173 P	10 10.00	-1.4		
	1.2s	14.70nm		5.3mb		
LKO	92.77	313 P	10 15.56	0.3		
ZOBO	123.43	17 iPKP	16 05.90	5.2X		
		LR	06 00.00			
SIV	123.65	9 PKP	15 59.60	-0.9		
LPB	123.69	17 ePKP	16 04.00	2.9X		
CNCB	123.97	17 PKP	16 02.00	0.2		
		i	16 08.50			
PPD	129.84	358 ePKP	16 11.80	-0.4		
	S.D. = 0.8	on 148 of 166 obs.				

MAR 01, 1991 02h 11m 19.27± 0.42s
43.373 N ± 4.0km 13 049 E ± 4.1km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)
MD 3.0 (SSO).

ARV	0.15	328 P	11 22.30	-0.4		
		eSg	11 25.00			
CIO	0.19	159 iPgd	11 23.13	-0.4		
		iSg	11 26.48			
SSO	0.28	106 ePg	11 25.91	0.7		
		iSg	11 31.93			
ASS	0.41	223 Pc	11 27.60	-0.2		
		eSg	11 35.20			
AOI	0.44	66 iPg	11 27.87	-0.4		
		iSg	11 36.15			
RSM	0.70	322 P	11 33.80	0.7		
		eSg	11 43.10			
ALP	0.71	147 ePg	11 32.43	-0.9		
		iSg	11 44.98			
CRE	0.84	288 P	11 35.40	-0.1		
		eSg	11 48.70			
MNS	1.02	195 P	11 38.10	-0.6		
		eSg	11 53.30			
SFI	1.03	303 P	11 38.40	-0.3		
AQU	1.05	166 P	11 40.70	1.6		
PGD	1.09	298 P	11 40.80	1.0		
		eSn	11 55.70			
MME	1.89	297 P	11 51.80	-0.3		
CTI	2.85	340 P	12 05.40	-0.4		
	S.D. = 0.8	on 14 of 14 obs.				

MAR 01, 1991 02h 41m 34.97± 0.45s
44.290 N ± 2.4km 6.628 E ± 3.7km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.5 (GEN). MD 1.8 (STR).

FOUF	0.26	25 iPgc	41 40.33	-0.2		
		e(Sg)	41 43.20			
PZZ	0.40	58 P	41 43.33	0.1		
		S	41 48.66			
DOI	0.49	64 P	41 45.10	0.1		
		eSg	41 51.20			
STV	0.50	95 P	41 44.76	-0.4		
		S	41 51.28			
TOUF	0.53	122 Pg	41 45.53	-0.1		
CALN	0.57	161 Pg	41 46.94	0.3		
		Sg	41 55.74			
ENR	0.57	96 P	41 46.15	-0.5		
		S	41 53.97			
RRL	0.64	10 P	41 48.04	0.1		
		S	41 55.84			
AURF	0.65	128 Pg	41 48.00	0.0		
		Sg	41 57.47			
AUTN	0.65	117 Pg	41 47.53	-0.6		
BHB	0.71	39 P	41 48.84	-0.2		
		S	41 58.84			
SAOF	0.73	114 Pg	41 49.35	0.0		
BNI	0.76	3 P	41 50.00	0.0		
		eSg	42 00.40			
REVF	0.77	136 Pg	41 50.71	0.7		
CDR	0.87	226 ePg	41 51.90	0.1		
		e	41 52.80			
		eSg	42 04.50			
ROB	0.89	89 P	41 52.76	0.6		
		S	42 04.24			
RSP	0.97	27 P	41 53.89	0.4		
		S	42 06.41			
IMI	0.99	112 P	41 53.89	0.2		
		S	42 06.02			
FIN	1.14	94 P	41 56.45	0.1		
		S	42 11.79			
CKI	1.19	83 P	41 57.70	0.5		
		eSg	42 13.60			
LSD	1.23	18 P	41 57.43	-0.5		
		S	42 13.59			
PCP	1.40	79 P	42 00.96	0.4		
		S	42 18.20			
PGF	2.45	134 Pn	42 14.53	-1.2		
	S.D. = 0.5	on 23 of 23 obs.				

MAR 01, 1991 02h 44m 57.62± 0.62s
43.365 N ± 5.1km 13.075 E ± 5.1km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ARV	0.16	324 P	45 00.90	-0.5		
		eSg	45 03.50			
CIO	0.18	163 iPg	45 01.66	0.0		
		iSg	45 05.68			
ASS	0.42	226 P	45 06.10	-0.2		
		eSg	45 13.20			
AOI	0.43	64 e(Pg)	45 06.42	0.1		
		eSg	45 14.90			
RSM	0.72	321 P	45 11.70	-0.1		
CRE	0.86	288 P	45 14.20	0.0		

		eSg	45	26.90	
SFI	1.05	302 P	45	17.40	0.1
PGD	1.11	298 P	45	19.20	0.7
S.D. = 0.4	on	8 of	8 obs.		

& MAR 01, 1991 05h 57m 09.46s
62.141 N 149.934 W
DEPTH = 49.5km
2.8mb (1 obs.)
CENTRAL ALASKA (1)
<AEIC>. Felt (IV) at Skwentno.

CUT	0.31	329 iPd	57	18.33	0.7
PWA	0.49	177 iPc	57	20.45	0.5
GHO	0.60	127 iPc	57	21.47	-0.2
PLRM	0.67	145 iPc	57	22.02	-0.5
		eS	57	33.11	
PMR	0.67	145 iPc	57	22.10	-0.4
SKT	0.77	259 iPc	57	23.51	-0.5
		eS	57	35.49	
SUA	0.78	210 iPc	57	24.35	0.0
		eS	57	36.99	
SML	0.83	113 eP	57	24.15	-0.8
HUR	0.85	9 iPd	57	24.49	-0.8
		eS	57	36.43	
PMS	0.92	169 iPc	57	25.70	-0.6
KNK	1.01	135 iPc	57	26.85	-0.8
		S	57	41.11	
NCG	1.29	236 ePc	57	30.57	-1.1
TRF	1.33	353 iPd	57	30.91	-1.3
RND	1.36	21 ePc	57	31.14	-1.5
CRP	1.37	231 ePc	57	31.98	-0.9
BGL	1.46	234 eP	57	33.24	-0.9
CKL	1.49	231 ePc	57	33.30	-1.2
NKA	1.54	205 eP	57	36.17	1.2
SLKM	1.64	185 iPc	57	35.34	-1.3
		eS	57	56.01	
MCK	1.66	16 ePd	57	35.59	-1.3
TOA	1.77	90 iPd	57	37.90	-0.5
GLI	1.86	132 iPd	57	38.11	-1.6
		eS	58	02.33	
VZW	1.95	122 iPd	57	39.20	-1.8
RDT	1.97	218 ePc	57	40.38	-1.0
VLZ	2.00	119 iPd	57	39.48	-2.1
		eS	58	04.00	
KLU	2.01	107 ePd	57	40.12	-1.8
BWN	2.05	6 ePd	57	40.83	-1.6
SEW	2.06	173 eP	57	41.77	-0.7
SDG	2.09	77 iPc	57	42.22	-0.7
		S	58	08.17	
KNIM	2.09	148 iPd	57	40.16	-2.8
TZL	2.12	91 eP	57	42.44	-1.0
RDN	2.13	221 ePc	57	42.60	-1.0
REF	2.13	220 ePc	57	42.35	-1.3
NCT	2.14	224 ePc	57	43.09	-0.7
RS2	2.17	220 ePc	57	43.48	-0.8
RSO	2.17	220 eP	57	43.55	-0.7
RED	2.21	220 ePc	57	43.95	-0.7
		eS	58	11.53	
NNL	2.21	198 ePc	57	44.57	-0.1
PAX	2.23	66 ePc	57	43.95	-1.1
		eS	58	11.48	
THY	2.31	54 eP	57	45.78	-0.3
HIN	2.41	135 iPd	57	45.40	-2.1
MTU	2.43	152 iPd	57	45.14	-2.6
BRLK	2.43	191 eP	57	47.56	-0.3
NEA	2.48	9 ePd	57	46.03	-2.4
WRH	2.48	19 ePd	57	46.36	-2.2
DDM	2.49	47 ePc	57	48.19	-0.5
CVA	2.57	127 ePd	57	47.61	-2.2
HOM	2.63	199 eP	57	50.84	0.3
HDA	2.64	29 ePc	57	48.62	-2.2
CCB	2.69	20 ePc	57	48.96	-2.5
CNPM	2.70	194 eP	57	50.96	-0.7
SGAM	2.81	124 eP	57	50.35	-2.9
RDS	2.81	16 ePc	57	50.95	-2.3
		eS	58	22.07	
XLV	2.83	199 eP	57	53.25	-0.3
SVW	2.91	252 iPc	57	53.40	-1.3
TTA	2.93	288 eP	57	52.50	-2.5
MDM	2.93	14 ePc	57	52.60	-2.4
FBA	2.93	18 iP	57	52.80	-2.2
GLB	2.99	101 ePd	57	53.21	-2.7
GLM	3.08	21 ePc	57	54.49	-2.6
DOT	3.08	58 eP	57	56.31	-0.9
RAGM	3.09	122 eP	57	55.47	-1.8
PDB	3.14	223 eP	57	56.20	-1.8
AUE	3.26	213 ePc	57	59.32	-0.3
AUH	3.28	213 ePc	58	00.42	0.5
HMT	3.29	121 eP	57	56.52	-3.5
AUI	3.30	213 eP	58	00.07	-0.1
TMW	3.41	67 eP	58	01.27	-0.5
MCNL	3.67	218 eP	58	04.64	-0.9
TGL	3.68	109 eP	57	58.28	-3.5
CDD	3.71	211 eP	58	04.14	-1.8
SYI	3.75	200 ePd	58	04.63	-1.9
BALM	3.79	104 ePd	58	03.78	-3.5
WAX	3.81	113 eP	58	04.33	-3.2
IMA	4.27	339 eP	58	11.60	-2.4
CTGM	4.28	102 eP	58	11.09	-3.1
WRG	4.38	115 eP	58	12.82	-2.6
ANM	7.35	296 eP	58	55.20	-2.0
YKA	16.30	73 eP	00	54.20	-2.7
	0.7s	0.60nm		2.8mb	
	79 obs. associated				

MAR 01, 1991 06h 49m 29.42± 0.66s
42.088 N ± 9.0km 20.370 E ± 5.5km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 3.1 (SKO), 2.8 (TTG).

PVY	0.59	330 iPgc	49	40.45	-0.9
		iSg	49	49.77	
SKO	0.81	98 iPgc	49	43.90	-1.2
	0.3s	227.00nm			
		i	49	46.00	
		iSg	49	55.00	
		i	49	55.20	
		i	49	56.80	
		Lg	49	59.00	
ULC	0.84	262 iPgc	49	45.42	-0.3
		iSg	49	59.52	
IVA	0.86	336 iPgc	49	46.03	0.0
		iSg	49	58.57	
TTG	0.89	293 iPgd	49	45.53	-1.0
		iSg	49	59.65	
BDV	1.16	280 iPgc	49	51.10	0.0
		iSg	50	10.20	
NKY	1.25	306 iPgc	49	52.50	-0.2
		iSg	50	13.18	
PLE	1.43	330 iPgc	49	56.53	1.0
		iSg	50	17.50	
HCY	1.43	285 iPgd	49	55.32	-0.1
		iSg	50	17.52	
BRY	1.58	302 iPgd	49	58.48	0.9
		iSg	50	20.85	
VAY	1.82	114 ePn	50	02.00	1.0
HVAR	3.09	292 e(Pn)	50	20.70	1.6
CIO	5.44	284 iPg	50	51.75	-0.9
		iSg	50	55.25	
ARV	5.64	287 P	50	50.90	-4.5x
		eSg	50	53.40	
S.D. = 1.0	on	13 of	14 obs.		

% MAR 01, 1991 08h 52m 16.20± 0.98s
39.286 N ± 8.3km 27.676 E ±13.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

DST	0.80	66 ePg	52	31.20	-0.6
		eSg	52	44.20	
IZM	0.94	200 iPn	52	34.20	0.0
EDC	1.07	8 ePn	52	36.00	-0.3
BNT	1.08	10 ePn	52	36.50	-0.1
YLV	1.83	45 ePn	52	49.00	1.0
S.D. = 0.9	on	5 of	5 obs.		

% MAR 01, 1991 09h 18m 00.00± 1.18s
39.153 N ± 9.7km 27.678 E ±12.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZM	0.82	203 iPg	18	15.30	-0.6
		eSg	18	27.80	
DST	0.86	58 ePn	18	18.00	1.3
EDC	1.20	7 ePn	18	22.00	-0.4
BNT	1.22	9 ePn	18	21.00	-1.6
EZN	1.24	303 iPn	18	24.40	1.3
S.D. = 1.8	on	5 of	5 obs.		

% MAR 01, 1991 09h 22m 40.76± 0.87s
42.408 N ± 7.0km 13.236 E ± 8.4km
DEPTH = 10.0km (geophysicist)

CENTRAL ITALY (381)
MD 2.5 (SSO).

AQU	0.13	114 P	22	43.20	-0.8
		eSg	22	46.20	
MNS	0.41	267 P	22	48.20	-1.0
		eSg	22	54.50	
AZI	0.45	161 P	22	50.90	1.1
		eSg	22	57.30	
ALP	0.45	34 iPg	22	48.85	-1.1
		iSg	22	56.48	
ASS	0.79	328 P	22	55.70	-0.4
		eSg	23	08.20	
CIO	0.79	355 e(Pg)	22	56.22	0.1
		iSg	23	08.42	
ARV	1.11	349 P	23	03.80	2.2
		eSn	23	18.80	
S.D. = 1.5	on	7 of	7 obs.		

? MAR 01, 1991 09h 23m 23.79± 1.71s
22.793 S ±36.7km 172.282 E ±23.8km
DEPTH = 33.0km (normal)
5.2mb (8 obs.)
LOYALTY ISLANDS REGION (189)

DZM	5.45	276 iPd	24	44.90	0.0
		iS	25	33.90	
BRS	18.25	251 iPc	27	41.00	4.8X
		e	27	44.00	
RMQ	21.69	255 eP	28	15.30	1.4
		i	28	17.50	
CMS	25.04	244 iPd	28	49.10	2.6X
		i	29	16.50	
ASPA	35.21	261 iPc	30	15.80	-1.4
	0.6s	54.10nm		5.7mb	
WRA	35.38	267 P	30	15.00	-3.7X
	0.4s	7.20nm		5.0mb	
MTN	40.29	277 iPd	30	57.20	-2.6X
	0.3s	58.00nm		5.9mb	
WARB	41.51	256 iPc	31	10.00	0.2
	0.5s	10.00nm		4.8mb	
MBL	48.46	261 iPc	32	04.60	-0.8
	0.6s	10.00nm		5.0mb	
MAT	67.22	331 eP	34	03.00	-13.9X
	1.0s	7.00nm			
KGM	71.48	280 eP	34	44.00	0.4
IPM	74.63	282 ePc	35	01.10	-1.0
	0.7s	31.90nm		5.4mb	
CHG	82.69	294 eP	35	47.00	1.1
CHTO	82.69	294 eP	35	46.30	0.4
	1.1s	3.53nm		4.4mb	
LZH	87.20	311 eP	36	08.00	-0.3
	1.5s	28.00nm		5.3mb	
TNR	145.44	319 ePKP	43	03.00	3.0X
KSP	146.34	332 iPKPc	43	04.20	2.9X
	0.9s	27.00nm			
BRG	147.29	334 iPKP	43	06.80	4.0X
	0.9s	20.00nm			
CLL	147.31	336 iPKP	43	06.80	4.0X
	1.0s	13.00nm			
PRU	147.72	333 PKP	43	08.00	4.5X
ZST	147.85	328 e(PKP)	43	08.90	5.1X
BCAO	148.74	238 iPKPc	43	13.10	6.8X
	0.7s	12.00nm			
KHC	148.78	333 PKPc	43	11.00	5.7X
SKO	149.05	315 iPKP	43	11.50	5.6X
OHR	149.88	314 ePKP	43	13.50	6.2X
LJU	150.61	327 e(PKP)	43	15.50	7.3X
VBY	150.62	326 ePKP	43	16.00	7.8X
CEY	150.88	327 ePKP	43	16.00	7.4X
VOY	150.93	328 ePKP	43	16.10	7.3X
S.D. = 1.0	on	10 of	29 obs.		

& MAR 01, 1991 09h 48m 44.28s
59.706 N 150.718 W
DEPTH = 50.4km
3.4mb (2 obs.)
KENAI PENINSULA, ALASKA (14)
<AEIC>.

BRLK	0.10	305 iPd	48	51.97	1.3
		iS	48	58.29	
CNPM	0.32	236 iPc	48	53.06	-0.7
		iS	49	00.25	
NNL	0.45	319 iPd	48	55.42	0.4
HOM	0.47	265 iPc	48	55.17	-0.1
XLV	0.57	244 iPc	48	55.49	-1.0

01d 09h

		eS	49 04.11		
SEW	0.75	57 iPc	48 57.91	-0.9	
SLKM	0.84	17 iPd	48 59.82	-0.3	
		eS	49 11.68		
NKA	1.07	346 iPd	49 04.40	1.2	
RDT	1.21	317 iPc	49 04.39	-0.9	
		iS	49 20.48		
RED	1.25	306 iPc	49 04.91	-0.9	
		eS	49 20.92		
REF	1.27	309 iPc	49 05.16	-1.0	
RS1	1.27	307 eP	49 04.44	-1.8	
RSO	1.27	308 iPc	49 05.26	-0.9	
RS2	1.27	307 iPc	49 05.26	-1.0	
RDN	1.31	309 iPc	49 05.46	-1.1	
AUE	1.40	257 iPc	49 07.19	-0.5	
SYI	1.40	219 iPc	49 06.65	-1.1	
		eS	49 23.75		
NCT	1.40	309 iPc	49 06.91	-1.0	
		iS	49 24.63		
AUI	1.43	256 iPc	49 07.52	-0.7	
		eS	49 25.45		
LTI	1.48	76 eP	49 08.57	-0.4	
		eS	49 25.80		
MTU	1.57	78 ePc	49 08.08	-2.2	
		eS	49 27.53		
KNIM	1.63	65 iPc	49 09.17	-1.9	
PMS	1.65	20 iPd	49 10.83	-0.5	
CKL	1.70	332 iPd	49 11.45	-0.6	
CRP	1.72	336 iPd	49 12.06	-0.4	
PDB	1.76	274 iPc	49 11.57	-1.3	
		iS	49 33.00		
SUA	1.76	360 iPd	49 12.47	-0.6	
BGL	1.77	333 iPd	49 12.64	-0.4	
NCG	1.85	338 iPd	49 13.86	-0.3	
		eS	49 37.04		
MCNL	1.92	256 iPc	49 13.55	-1.6	
		eS	49 36.55		
PWA	1.99	12 iPd	49 15.51	-0.6	
KNK	2.04	32 iPd	49 15.89	-1.0	
		eS	49 39.99		
PLRM	2.05	22 iPd	49 15.90	-1.0	
PMR	2.05	22 iPd	49 16.00	-0.9	
GLI	2.15	55 iPc	49 16.19	-2.2	
		S	49 40.96		
HIN	2.23	70 iPc	49 17.47	-2.0	
		iS	49 43.59		
MID	2.25	95 ePd	49 18.90	-0.8	
GHO	2.25	22 iPd	49 18.98	-0.9	
SKT	2.32	350 iPd	49 20.35	-0.4	
		eS	49 46.82		
VZW	2.47	55 iPc	49 20.99	-2.0	
VLZ	2.60	55 ePc	49 22.91	-1.8	
CVA	2.63	69 iPc	49 22.62	-2.4	
CUT	2.72	4 eP	49 25.51	-0.9	
SVW	2.81	302 ePc	49 26.20	-1.6	
SGAM	2.87	72 iPc	49 26.06	-2.6	
KLU	2.97	51 iPc	49 28.43	-1.7	
		S	50 01.46		
RAGM	3.11	75 ePc	49 29.04	-3.0	
TOA	3.27	41 eP	49 33.60	-0.8	
HMT	3.30	76 eP	49 31.71	-3.1	
HUR	3.32	9 eP	49 34.98	-0.1	
TZL	3.49	46 eP	49 36.42	-1.0	
TRF	3.76	3 ePd	49 40.65	-0.8	
SDG	3.78	39 ePc	49 40.15	-1.4	
RND	3.82	13 ePd	49 41.25	-0.9	
GLB	3.83	60 iPc	49 39.56	-2.6	
WAX	4.01	76 ePc	49 41.40	-3.4	
TGL	4.07	72 iPc	49 42.48	-3.2	
TTA	4.12	324 eP	49 44.80	-1.5	
MCK	4.13	11 eP	49 45.80	-0.6	
PAX	4.14	35 ePc	49 44.97	-1.6	
BALM	4.37	69 iPc	49 46.58	-3.2	
WRG	4.39	82 eP	49 48.09	-2.0	
BWN	4.52	7 eP	49 50.84	-1.0	
DDM	4.70	27 eP	49 53.83	-0.7	
CTGM	4.83	71 ePc	49 53.18	-3.3	
WRH	4.94	13 ePd	49 55.73	-2.1	
NEA	4.95	8 eP	49 55.73	-2.3	
HDA	5.04	19 eP	49 57.58	-1.6	
CCB	5.14	14 ePd	49 58.41	-2.3	
RDS	5.28	12 eP	50 00.54	-2.1	
FBA	5.39	13 ePd	50 02.00	-2.1	
MDM	5.40	11 eP	50 02.04	-2.3	
GLM	5.52	15 ePd	50 03.72	-2.3	
YKU	5.58	87 eP	50 05.20	-1.6	
BCPM	5.60	83 ePc	50 04.14	-2.9	

PNL	5.74	85 ePc	50 05.60	-3.4
HON	6.02	87 eP	50 09.55	-3.5
IMA	6.53	349 eP	50 17.50	-2.7
ANM	8.41	312 ePd	50 44.50	-1.6
INK	11.41	34 P	51 23.00	-4.1
YKA	17.53	65 eP	52 44.70	-1.5
	0.9s	1.40nm		3.1mb
MBC	19.86	22 eP	53 12.50	-0.8
	0.6s	3.00nm		3.8mb
	82 obs. associoted			

? MAR 01, 1991 10h 14m 58.87± 1.16s
0.302 N ± 8.9km 78.352 W ±10.9km
DEPTH = 10.0km (geophysicist)
COLOMBIA-ECUADOR BORDER REGION (106)
MD 3.6 (QUI).

COTA	0.04	23 iPd	15 01.20	-0.2
		eS	15 11.80	
CAYA	0.43	121 P	15 08.20	0.4
YANA	0.47	208 Pd	15 09.50	1.0
QUR	0.50	201 eP	15 07.70	-1.5
GGP	0.53	207 P	15 10.70	0.9
		S	15 27.30	
VC1	0.94	183 P	15 16.40	-0.7
	S.D. = 1.2	on 6 of	6 obs.	

• MAR 01, 1991 10h 28m 34.56± 0.74s
16.283 N ±11.3km 143.515 E ±20.6km
DEPTH = 33.0km (normal)
4.7mb (2 obs.)
MARIANA ISLANDS REGION (215)

PJG	2.98	154 eP	29 20.90	0.3
GUA	3.04	153 eP	29 21.30	-0.2
		eS	29 52.30	
LZH	40.34	307 eP	36 33.50	22.5X
	1.5s	25.00nm		
		pP	36 43.00	32kmX
GUN	54.22	293 P	38 00.00	0.0
INK	72.40	23 eP	39 59.50	0.5
YKA	81.08	27 eP	40 51.50	3.9X
	1.1s	4.70nm		4.4mb
SES	87.11	38 eP	41 18.00	-0.4
FFC	90.24	32 eP	41 33.00	-0.1
	0.6s	5.00nm		5.0mb
	S.D. = 0.4	on 6 of	8 obs.	

• MAR 01, 1991 10h 59m 13.42± 1.85s
11.908 N ±10.9km 141.681 E ±11.0km
DEPTH = 46.9 ± 18.4 km
4.5mb (2 obs.)
WEST CAROLINE ISLANDS (209)

PJG	3.53	61 eP	00 07.00	-0.1
GUA	3.54	62 eP	00 07.30	-0.1
	0.8s	632.84nm		
		eS	00 50.00	
BJI	35.95	326 eP	06 13.00	1.6
ASPA	36.16	192 eP	06 13.10	-0.4
	0.7s	7.40nm		4.7mb
DZM	41.60	144 iPd	06 59.60	0.9
GUN	54.39	296 P	08 39.00	0.4
PKI	54.77	295 P	08 41.00	-0.5
KKN	54.91	296 P	08 41.80	-0.5
DMN	55.04	295 P	08 43.30	-0.1
GKN	55.49	296 P	08 46.00	-0.4
HYB	61.09	283 eP	09 25.50	0.0
INK	77.10	22 eP	11 02.00	-1.2
MBC	80.64	14 eP	11 23.00	0.7
YKA	85.77	27 eP	11 48.40	-0.3
	0.4s	0.90nm		4.3mb
ZOBO	150.78	102 PKP	19 00.50	2.5X
	S.D. = 0.8	on 14 of	15 obs.	

? MAR 01, 1991 11h 11m 00.35± 0.88s
38.410 N ± 8.0km 21.623 E ±10.6km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 3.0 (ATH).

AGG	0.82	42 ePd	11 12.20	-4.1X
VLS	0.85	254 ePb	11 16.50	-0.2
LIT	1.82	21 ePc	11 31.00	-0.9
KZN	1.90	3 ePn	11 34.00	0.9
VLI	1.99	148 ePn	11 34.50	0.2
FNA	2.38	355 ePd	11 40.10	0.1

GRG	2.61	13 iPd	11 56.30	13.0X
OHR	2.77	347 e(Pn)	11 51.00	5.4X
	S.D. = 0.9	on 5 of	8 obs.	

? MAR 01, 1991 12h 07m 53.32± 4.76s
36.556 N ±44.3km 28.817 E ±17.9km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)

YER	0.72	324 iPg	08 07.20	-0.3
		iSg	08 21.20	
ELL	0.90	77 ePg	08 10.30	-0.3
CIN	1.19	331 ePg	08 16.00	0.4
		iSg	08 31.00	
BCK	1.68	57 ePn	08 23.60	0.6
KHL	1.85	17 ePn	08 25.00	-0.4
	S.D. = 0.7	on 5 of	5 obs.	

• MAR 01, 1991 12h 31m 38.41± 1.09s
5.275 S ± 9.3km 151.857 E ±15.8km
DEPTH = 74.7 ± 9.7 km
4.7mb (6 obs.)
NEW BRITAIN REGION (192)

RAB	1.12	16 iPd	31 59.20	0.3
PMG	6.21	228 eP	33 09.00	-0.6
OIS	19.30	217 eP	36 00.00	-0.3
		e	36 09.00	
RMQ	21.30	188 eP	36 20.00	-0.9
MTN	21.79	248 eP	36 26.00	0.2
KNA	24.94	244 eP	36 57.00	0.6
ASPA	25.17	222 iPc	37 00.40	1.9
	0.8s	25.20nm		4.7mb
	Z 20s	0.20um		3.6Msz
		ipP	37 09.90	34kmX
WARB	31.83	227 eP	37 58.00	-0.4
CHG	57.35	296 eP	41 22.00	0.5
CHTO	57.35	296 eP	41 22.30	0.8
	1.2s	6.60nm		4.6mb
GUN	71.56	302 P	42 54.80	0.5
	0.7s	19.00nm		5.1mb
PKI	71.87	301 P	42 55.20	-0.9
KKN	72.04	301 P	42 56.40	-0.6
DMN	72.14	301 P	42 55.40	-2.2
GKN	72.64	301 P	43 00.30	-0.2
	0.8s	17.00nm		5.0mb
GBA	76.19	285 Pd	43 21.00	0.2
	0.9s	3.40nm		4.3mb
YKA	96.28	28 eP	44 59.50	0.0
	0.6s	0.30nm		4.0mb
BCAO	133.49	271 iPkPd	50 50.10	1.2
	0.6s	6.00nm		
	S.D. = 1.0	on 18 of	18 obs.	

• MAR 01, 1991 12h 45m 26.04± 2.07s
6.019 S ±12.3km 145.892 E ±12.4km
DEPTH = 62.0 ± 23.7 km
5.1mb (11 obs.)
PAPUA NEW GUINEA (202)

PMG	3.59	160 eP	46 20.00	-0.5
MTN	16.06	244 eP	49 10.00	0.6
KNA	19.38	239 eP	49 50.00	0.2
RMQ	20.54	173 e(P)	50 08.00	6.1X
		i	50 32.20	
ASPA	21.00	212 iPd	50 07.20	0 6
	0.7s	7.30nm		4 1mb
MAT	42.94	351 (P)	53 19.00	-1 5
QIZ	43.37	306 eP	53 24.20	0.0
SSE	43.82	329 Pd	53 28.50	0.9
	1.0s	24.00nm		4.9mb
NJ2	45.79	327 Pc	53 44.90	1 5
	1.2s	100.00nm		5.6mb
WHN	47.27	322 eP	53 56.20	1.1
CHG	52.43	299 eP	54 35.00	0.1
CHTO	52.43	299 iP	54 34.90	0.0
	1.0s	8.75nm		4.7mb
XAN	53.00	321 P	54 38.50	-0.4
BJI	53.39	332 eP	54 41.00	-0.5
TIY	53.52	327 eP	54 42.00	-0.6
LZH	57.51	320 Pd	55 11.50	-0.1
	1.5s	40.00nm		5.3mb
GTA	62.06	321 Pd	55 43.00	0.3
	0.8s	10.00nm		5.0mb
GUN	66.96	304 P	56 14.80	-0.2
	0.4s	17.00nm		5.4mb
PKI	67.23	303 P	56 16.70	0.0

```
KKN     67.41 303 P      56 17.50  -0.3
DMN     67.50 303 P      56 18.40   0.1
        0.8s     30.00nm          5.3mb
GKN     68.02 303 P      56 20.90  -0.6
        0.8s     26.00nm          5.3mb
HYB     70.44 291 eP     56 35.50  -0.8
GBA     70.68 287 Pd     56 35.70  -2.0
        0.2s      2.00nm          4.7mb
WMO     72.09 320 P      56 46.20   0.4
        1.0s     30.00nm          5.2mb
YKA     99.70  28 eP     59 05.80   1.7
        0.8s      0.30nm          3.9mb X
SIV    145.49 130 PKP    05 02.00   2.3X
KIC    150.80 272 PKP    05 14.90   6.7X
TIC    151.08 273 PKP    05 15.60   7.0X
LIC    151.09 272 PKP    05 15.70   7.1X
LKO    151.53 279 PKP    05 16.40   7.1X
        0.7s      8.00nm
      S.D. = 0.9  on  25 of  31 obs.
-------------------------------------
%  MAR  01, 1991  12h 51m 35.14± 1.29s
   40.832 N ± 6.4km   27.698 E ±15.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)

EDC      0.50 165 ePg    51 45.00  -0.3
BNT      0.50 160 iPg    51 44.80  -0.6
                 iSg     51 51.30
KCT      0.77 139 ePg    51 50.40   0.2
DMK      0.99   3 iPg    51 53.80  -0.1
                 iSg     52 06.80
YLV      1.30 101 ePn    51 59.00  -0.3
DST      1.42 150 ePn    52 02.00   1.0
      S.D. = 0.7  on   6 of   6 obs.
-------------------------------------
*  MAR  01, 1991  13h 16m 50.21± 1.69s
   36.400 N ± 9.4km   71.288 E ± 8.9km
   DEPTH = 105.9 ± 17.5 km
   4.5mb ( 10 obs.)
 AFGHANISTAN-USSR BORDER REGION  (717)

QUE      7.18 212 eP     18 34.30  -0.1
                 eS      19 51.40
NDI      9.18 145 iPc    19 02.50   1.2
        0.6s     23.33nm          5.2mb
                 iS      20 28.00
GKN     14.05 123 P      20 04.40  -1.5
WMO     14.57  54 P      20 12.50   0.2
                 S       23 05.50
DMN     14.62 123 P      20 13.00  -0.3
KKN     14.63 122 P      20 12.20  -1.1
PKI     14.85 122 P      20 15.00  -1.3
GUN     14.97 120 P      20 16.40  -1.3
LSA     17.93 106 P      20 56.50   2.0
HYB     19.97 159 eP     21 16.50   0.0
        0.8s     53.80nm          4.9mb
                 i       21 20.40
                 eS      24 46.00
GTA     22.67  74 iPc    21 46.60   3.3X
        0.4s     20.00nm          4.8mb
GBA     23.36 165 Pd     21 51.50   1.6
        0.6s     23.80nm          4.7mb
KOD     26.64 166 eP     22 22.10   1.0
GYA     31.62  98 P      23 06.60   1.4
TIY     32.68  75 Pd     23 16.40   2.1
MLR     35.03 299 eP     23 45.50  11.0X
SOD     39.93 335 eP     24 14.00  -0.9
KEV     40.98 338 eP     24 12.00 -11.5X
BRG     42.87 308 i(P)   24 41.20   2.0
NAO     44.77 323 P      24 53.80  -0.6
        0.7s      3.70nm          4.3mb
BCAO    57.84 250 ePc    26 35.90   2.8X
        0.7s      3.00nm          4.4mb
                 i       27 27.10
MBC     67.43   3 ePd    27 31.40  -4.3X
        0.5s      3.00nm          4.5mb
BUL     69.20 223 iPd    27 46.70  -0.9
INK     73.97   9 eP     28 14.50  -0.6
YKA     81.34   3 eP     28 55.00  -0.7
        0.5s      1.30nm          4.0mb
WRA     81.74 122 P      28 57.00  -1.5
        0.9s      3.30nm          4.2mb
ASPA    84.00 125 eP     29 09.10  -0.9
        0.8s      5.00nm          4.5mb
      S.D. = 1.3  on  22 of  27 obs.
-------------------------------------
*  MAR  01, 1991  13h 36m 40.53± 1.57s
   34.990 N ±15.8km   22 401 E ± 9.2km
   DEPTH =  10.0km  (geophysicist)
   3.6mb (  1 obs.)
 MEDITERRANEAN SEA               (400)
      ML 3.9 (ATH).

VLI      1.78  14 iPbc   37 11.50   0.0
NPS      2.65  83 ePn    37 24.20   0.2
ATH      3.16  19 ePn    37 32.00   0.8
VLS      3.50 336 iPnd   37 36.50   0.4
KZN      5.33 355 ePn    38 01.50  -0.7
OHR      6.24 349 ePn    38 14.00  -0.9
SKO      7.01 354 ePn    38 20.00  -5.7X
MGR      7.48 315 P      38 32.10  -0.2
SGO      7.90 317 P      38 39.20   1.1
YKA     76.90 341 eP     48 33.40  -0.8
        0.5s      0.30nm          3.6mb
      S.D. = 0.8  on   9 of  10 obs.
-------------------------------------
%  MAR  01, 1991  13h 42m 17.30± 0.67s
   16.273 N ± 5.8km   61.375 W ± 4.7km
   DEPTH =  10.0km  (geophysicist)
 LEEWARD ISLANDS                 ( 92)
      ML 2.0 (FDF).

SFG      0.17  97 iPd    42 21.54   0.3
                 S       42 25.00
SEG      0.18 316 ePc    42 21.39   0.1
                 S       42 24.50
DEG      0.31  82 ePd    42 23.32  -0.4
                 S       42 27.00
DOG      0.33 224 ePd    42 24.39   0.1
                 S       42 28.90
MGG      0.36 171 eP     42 24.89   0.2
                 S       42 29.80
PAG      0.38 230 eP     42 25.00  -0.1
                 S       42 30.10
BBL      0.75 188 eP     42 31.70  -0.3
      S.D. = 0.3  on   7 of   7 obs.
-------------------------------------
   MAR  01, 1991  14h 00m 13.63± 0.46s
   23.816 N ± 6.5km   95.878 E ± 5.3km
   DEPTH =  33.0km  (normal)
   4.3mb (  6 obs.)
 BURMA                           (296)

CHG      5.74 150 ePn    01 38.00  -0.8
                 ePg     02 00.00
                 iSg     03 14.40
CHTO     5.74 150 ePn    01 37.80  -1.0
BDT      7.16 155 eP     01 53.00  -5.8X
        0.7s    354.60nm          6.4mb X
LSA      7.22 325 P      02 01.00   1.0
                 eS      03 26.00
LOE      8.41 138 eP     02 21.00   4.8X
NST      9.04 153 eP     02 25.70   0.9
KHT      9.34 164 eP     03 10.00  40.9X
                 eSg     05 20.00
GUN      9.88 296 P      02 36.60  -0.3
CD2      9.95  43 eP     02 40.00   2.6
      Z  10s      2.50um
                 S       04 30.50
GYA     10.12  73 eP     02 39.60  -0.3
      N  10s      2.60um
      E  10s      0.40um
PKI     10.15 294 P      02 39.70  -0.9
KKN     10.34 295 P      02 42.00  -1.0
DMN     10.42 294 P      02 43.60  -0.6
GKN     10.94 295 P      02 49.80  -1.4
LZH     14.03  28 eP     03 28.50  -3.9X
        1.0s     18.00nm          4.7mb
      Z  10s      0.69um
                 pP      03 35.00
                 sP      03 41.00
XAN     15.29  45 P      03 44.00  -4.7X
      N  10s      1.10um
      E  10s      0.80um
GTA     15.90  11 eP     03 58.60   1.9
        0.8s     10.00nm          4.0mb
      Z  20s      1.00um
      N  10s      0.80um
HYB     17.41 252 eP     04 16.50   0.7
                 eS      07 20.00
TIY     19.81  42 eP     04 42.20  -2.2
      Z  10s      0.60um
GBA     20.18 243 Pd     04 49.90   1.6
        0.8s      4.70nm          3.9mb

BTO     20.52  32 eP     04 48.00  -3.8X
      N  11s      0.80um
      E  11s      0.50um
WMO     21.06 343 P      04 56.50  -0.8
        1.2s     40.00nm          4.7mb
POO     21.19 260 eP     05 01.00   2.2
HHC     21.49  34 eP     05 01.00  -0.6
      N  12s      0.30um
NJ2     21.86  63 Pc     05 05.20  -0.1
      N  12s      1.00um
TIA     22.10  51 eP     05 07.10  -0.6
KOD     22.15 236 eP     05 12.00   3.3X
BJI     23.54  42 eP     05 22.00   0.2
        1.5s     39.00nm          4.7mb
CN2     31.38  43 eP     06 35.00   1.4
MBC     77.83   8 eP     12 08.50  -0.4
INK     81.31  17 eP     12 27.00  -0.7
YKA     90.62  14 eP     13 12.80  -1.0
        0.8s      0.50nm          3.9mb
      S.D. = 1.3  on  25 of  32 obs.
-------------------------------------
   MAR  01, 1991  14h 04m 45.25± 0.16s
   19.691 S ± 3.4km   69.981 W ± 4.5km
   DEPTH =  72.8km  ( 23 depth phases)
   5.3mb ( 25 obs.)
 NORTHERN CHILE                  (123)
      Felt (IV) at Tacna and (III) at
      Arequipa, Peru.

CNCB     3.44  34 iPc    05 45.00   6.9X
ARE      3.52 336 iPc    05 39.00   0.0
LPB      3.62  30 iPc    05 46.00   5.5X
                 iS      07 02.00
ZOBO     3.83  28 iPc    05 49.30   5.6X
SLA      6.51 141 iPc    06 20.00  -0.7
SIV      9.25  68 iPc    06 58.20  -0.1
NNA     10.11 318 iP     07 08.80  -1.2
        0.7s     30.82nm          5.4mb
                 eS      08 53.00
ZON     11.86 175 eP     07 33.50   0.0
TCA     12.57 158 ePd    07 39.00  -3.9X
JACH    12.95 182 eP     07 53.50   5.6X
ROCH    13.26 184 eP     07 58.50   6.4X
PEL     13.41 183 eP     07 53.50  -0.4
SAN     13.72 182 eP     07 57.50  -0.4
LCCH    13.80 186 eP     07 56.50  -2.4
PCH     13.88 182 eP     07 58.50  -1.6
TACH    13.93 183 eP     07 59.00  -1.7
LNV     14.27 185 eP     08 03.20  -1.7
PPD     17.60 101 eP     08 47.90   0.6
                 e       08 51.00
                 e       09 13.40
LPA     18.53 147 iPd-   08 58.00  -0.5
        1.0s    800.00nm          5.9mb
                 eS      12 24.00
VC1     20.65 335 P      09 24.10   2.1
CAYA    21.16 337 eP     09 29.50   2.4X
VAO     21.68 103 eP     09 31.10  -0.6
                 e       09 34.20  11kmX
                 e       09 47.60
PSO     21.97 340 eP     09 40.00   5.0X
BMA     24.26 102 eP     09 58.60   1.7
                 e       10 06.20  27kmX
                 i       10 09.50
BOG     24.49 350 eP     10 03.50   4.0X
                 iS      14 19.00
BMG     26.77 353 iPc    10 20.00  -0.4
SDV     28.40 359 eP     10 34.90  -0.3
OLLA    29.69   6 P      10 46.30  -0.4
SOB1    29.98  74 eP     10 48.70  -0.6
UPA     30.00 341 (P)    10 50.00   0.7
PDCR    30.45  81 eP     10 53.00  -0.4
                 e       10 56.10  11kmX
MGP     37.57   5 P      11 53.50  -0.9
PORP    37.65   5 P      11 54.00  -1.1
LPR     37.98   6 P      11 43.00 -14.9X
OXX     45.01 323 (P)    12 57.50   1.8
IISM    46.90 323 (P)    13 12.50   2.2
IIT     47.45 322 (P)    13 16.50   1.4
III     47.63 321 (P)    13 17.50   1.1
PPM     47.67 322 (P)    13 18.50   1.4
SGS     53.54 349 P      14 00.00  -0.6
JSC     54.73 349 P      14 08.40  -1.0
TKL     56.58 347 P      14 20.80  -1.9
GBTN    56.68 346 P      14 21.60  -1.9
RSCP    56.94 345 P      14 23.30  -2.0
                 pP      14 42.00  73km
```

01d 14h

BLA	57.44	350	P	14	28.00	-0.8				epP	16	46.90	73km		0.9s	16.40nm							
	1.0s	15.00nm			5.1mb		WDC	77.33	322	iPd	16	32.30	-1.3	SSB	93.42	43	P	18	04.17	10.5X			
CVL	57.91	352	P	14	31.70	-0.3				epP	16	52.00	73km	SSF	93.52	41	eP	18	04.30	10.3X			
OLY	58.55	339	P	14	34.00	-2.6	TIO	78.47	51	iP	16	50.50	10.2X		0.9s	26.20nm							
ELC	59.50	342	P	14	40.90	-2.2				i	17	01.50	36kmX	SMF	93.55	42	eP	18	05.10	10.9X			
FVM	60.50	342	P	14	47.80	-2.1	FFC	79.00	342	iPd	16	41.80	-0.7		0.8s	52.40nm							
CLE	61.80	350	iP	14	58.00	-0.7		1.2s	32.00nm			5.1mb		LBF	93.78	41	eP	18	05.70	10.4X			
MBO	62.20	61	iPc	15	21.40	19.7X	AVE	79.60	49	iP	16	56.00	9.8X		0.9s	21.30nm							
WVLY	62.35	353	P	15	02.00	-0.3				i	16	58.50	8kmX	LOR	93.82	41	eP	18	05.80	10.3X			
HBVT	63.80	358	P	15	11.00	-0.8	NEW	79.68	330	P	16	46.00	-0.4		0.7s	17.65nm							
BNH	63.98	359	P	15	13.00	0.1		0.8s	14.58nm			5.0mb			Z 21s	0.70um				5.1Msz			
RSNY	64.06	356	P	15	13.00	-0.5	LON	80.95	327	P	16	52.50	-0.6	RSL	94.93	43	P	18	11.11	10.3X			
	0.8s	53.42nm			5.5mb		IFR	81.35	50	iPd	17	04.00	8.3X	LPL	94.93	43	eP	18	12.40	11.5X			
		pP		15	32.00	72km				i	17	07.50	11kmX		1.0s	20.00nm							
ALO	64.44	327	eP	15	15.30	-1.1	BMW	81.51	326	P	16	56.20	0.1	LPG	94.93	43	eP	18	12.50	11.5X			
	1.2s	37.89nm			5.2mb		PNT	81.60	330	iPd	16	57.50	1.1		0.9s	21.30nm							
		pP		15	34.50	73km		0.8s	29.00nm			5.3mb		DOU	95.44	39	Pc	18	17.60	14.8X			
ANMO	64.44	327	P	15	15.00	-1.4	EDM	81.71	335	iPd	16	56.00	-0.9	HAU	95.66	41	eP	18	14.30	10.4X			
GAC	65.27	356	eP	15	21.50	0.3				pP	17	15.50	71km		0.8s	24.20nm							
	0.7s	29.00nm			5.3mb		GIBL	82.46	47	eP	17	13.50	12.3X	BSF	95.87	41	eP	18	15.40	10.4X			
CBM	66.33	1	P	15	28.00	0.0	EJIF	82.60	47	eP	17	15.50	13.6X		0.8s	21.50nm							
GOL	67.69	331	P	15	36.00	-1.2	LIJA	82.87	47	eP	17	16.50	13.1X	CDF	96.39	41	eP	18	17.90	10.6X			
	0.9s	21.78nm			5.1mb		EPRU	83.03	47	eP	17	17.60	13.5X		0.7s	14.35nm							
GLA	67.71	320	eP	15	37.00	-0.1	FRB	83.17	1	eP	17	04.00	-0.1	OGA	98.20	43	iPc	18	30.90	15.3X			
		e		15	56.00	72km	EHOR	83.46	46	eP	17	17.40	11.2X		1.0s	20.00nm							
BAR	68.59	319	eP	15	43.00	0.4	STS	84.03	40	eP	17	23.50	14.5X	INK	98.91	340	ePd	18	17.60	-0.4			
LIC	68.87	75	P	15	44.12	-0.5	EPLA	84.07	44	eP	17	23.00	13.7X				pP	18	37.00	69km			
Z	22s	1.10um			5.1Msz		ECOG	84.33	47	eP	17	20.10	9.3X	GRF	99.27	41	eP	18	36.10	15.9X			
TIC	69.04	75	P	15	45.16	-0.6	AFC	84.34	47	eP	17	22.70	11.8X		0.7s	19.00nm							
KIC	69.18	75	P	15	46.12	-0.4	EBAN	84.62	46	eP	17	24.80	12.7X		Z 22s	0.40um				4.9Msz			
		S		24	48.00		ERUA	84.63	41	eP	17	25.60	13.6X	KBA	99.77	44	e(P)	18	32.00	9.3X			
LKO	69.73	71	P	15	49.54	-0.4	EMON	85.07	40	eP	17	27.90	13.7X		0.8s	7.70nm				5.4mb			
RVR	69.91	319	eP	15	51.00	0.4	ENIJ	85.12	48	eP	17	26.00	11.4X			i		18	38.00	19kmX			
		e		16	10.00	71km	TOL	85.31	45	eP	17	26.00	10.5X	WET	100.12	41	ePdiff	18	39.50	15.3X			
MSU	70.13	326	P	15	52.30	0.2	GUD	85.62	44	eP	17	30.00	12.8X		0.9s	16.00nm							
		pP		16	12.00	74km	EVIA	85.73	47	eP	17	30.00	12.3X	MBC	100.27	349	ePdiff	18	24.50	0.3			
SPA	70.43	180	iPd	15	53.30	-0.3	ETOR	87.10	45	eP	17	36.30	12.0X		1.0s	5.00nm				5.1mb			
	1.4s	88.24nm			5.5mb		ECHE	87.24	46	eP	17	37.80	12.8X	KHC	100.55	42	Pdiff	18	41.70	15.6X			
GSC	70.45	321	eP	15	54.00	0.0	SEK	87.24	119	e(P)	17	25.00	-0.5	KLU	100.61	332	Pdiff	18	25.00	-1.1			
		e		16	14.00	75km	PRY	87.61	118	iPd	17	36.00	8.7X	CLL	100.87	39	ePdiff	18	43.00	15.6X			
SBB	70.65	320	eP	15	55.00	-0.2		1.0s	15.00nm			5.1mb		TOA	100.94	332	Pdiff	18	26.70	-0.8			
		e		16	15.00	75km	ECRI	87.67	43	eP	17	37.60	10.6X	BRG	101.30	40	i(Pdif	18	50.10	20.8X			
RSSD	70.74	335	P	15	55.00	-0.7	VAL	88.23	32	eP	17	44.00	14.7X	PRU	101.41	41	Pdiff	18	45.00	15.2X			
	0.8s	17.53nm			5.0mb		SLR	88.71	117	iPc	17	32.20	-0.4	FBA	102.60	335	Pdiff	18	33.80	-1.0			
DAU	71.07	328	P	15	58.00	0.1		0.9s	16.81nm			5.3mb		KSP	102.72	40	ePdiff	18	51.50	15.9X			
CLC	71.27	321	eP	15	58.00	-0.9	EBR	88.80	46	(P)	17	48.00	15.7X	MLR	107.85	47	ePKP	23	19.00	12.9X			
		e		16	19.00	80km	YKA	89.16	341	eP	17	32.50	-1.1	WRA	133.96	213	PKP	23	55.00	-1.5			
ISA	71.69	320	eP	16	02.00	0.5		1.1s	67.70nm			5.8mb			0.8s	15.70nm							
		e		16	22.00	75km	EPF	89.72	44	eP	17	48.00	11.3X	QUE	139.78	66	ePKP	24	09.00	1.6			
DUG	71.70	327	P	16	01.70	0.2		0.8s	15.45nm								e	24	29.60				
BW06	72.06	330	P	16	02.80	-0.9	BCAO	90.08	85	iPd	17	40.10	1.1	KSH	144.74	49	PKP	24	16.00	0.4			
		pP		16	22.00	72km		1.0s	55.00nm			5.8mb					pPKP	24	37.00				
TNP	72.59	323	P	16	07.00	0.1				i	18	00.10	72km	POO	145.84	86	iPKPd	24	18.80	0.8			
	0.9s	13.02nm			4.9mb					i	18	15.00			0.8s	134.33nm							
LEGH	73.08	77	eP	16	10.00	0.1	BFT	90.21	117	e(P)	17	41.50	1.8				iSg	24	38.00				
KUK	73.11	77	eP	16	10.00	-0.1	ECP	90.35	33	eP	17	55.90	16.7X	GUA	146.05	265	ePKP	24	18.00	-0.4			
KOGH	73.19	77	eP	16	10.00	-0.6	ETA	90.70	33	eP	17	57.00	16.1X		1.0s	368.00nm							
SHGH	73.31	77	eP	16	11.50	0.2	LFF	90.85	42	eP	17	52.60	10.8X	PJG	146.11	265	ePKP	24	18.60	0.2			
FRI	73.32	320	eP	16	11.00	0.1		0.9s	88.45nm					KOD	147.23	102	ePKP	24	22.40	1.7			
		epP		16	28.80	65km	LPO	91.02	42	eP	17	53.50	10.9X	KOD	147.23	102	ePKP	24	44.00	23.3X			
PRI	73.35	319	eP	16	11.90	0.7		0.8s	28.20nm					GBA	148.24	96	PKPd	24	22.50	0.7			
		epP		16	31.40	73km	MFF	91.07	40	eP	17	53.50	10.7X		1.0s	49.70nm							
RUV	73.40	259	iP	16	12.70	0.9		0.9s	21.30nm					NDI	148.85	67	iPKPd	24	23.50	1.0			
	1.1s	40.00nm			5.3mb		LPF	91.20	39	eP	17	53.50	10.2X	KAKJ	148.86	308	PKP	24	22.90	0.7			
VAH	73.62	259	iP	16	13.90	0.9		1.2s	32.75nm					NIIJ	149.27	311	PKP	24	27.60	4.7X			
	1.1s	55.00nm			5.4mb		GRR	91.48	39	eP	17	54.80	10.2X	WMQ	149.54	33	PKP	24	24.20	1.0			
TPT	73.68	260	iP	16	14.30	0.9		1.0s	30.00nm						Z 28s	1.00um				5.5MszX			
	1.1s	50.00nm			5.4mb		RJF	91.51	42	eP	17	55.50	10.7X				PKPab	24	29.00				
KVN	73.76	323	P	16	13.60	-0.1		0.8s	28.20nm								pPKP	24	50.00				
LLA	73.83	319	iPd	16	14.30	0.4		Z 21s	0.52um			5.0Msz					SKKS	34	44.00				
		epP		16	33.70	72km	CAF	91.68	43	eP	17	56.50	10.8X	CHJJ	149.80	309	PKP	24	29.50	5.8X			
PRS	73.90	319	eP	16	14.90	0.6		0.9s	31.10nm					HYB	150.11	89	ePKPd	24	25.50	0.8			
		epP		16	34.60	73km	FLN	91.88	38	eP	17	56.90	10.5X		1.0s	130.00nm							
PMO	73.93	260	iP	16	15.70	0.9		Z 22s	0.65um			5.0Msz					e	24	50.50				
	1.1s	50.00nm			5.4mb		LSF	91.94	41	eP	17	57.50	10.7X	MAT	150.15	310	ePKP	24	24.00	-0.3			
SCH	74.25	2	eP	16	16.00	0.1		0.9s	27.85nm						1.2s	21.88nm							
TVO	74.41	256	eP	16	19.00	1.3	LDF	92.01	39	eP	17	57.40	10.4X	MDJ	150.28	331	PKPc	24	24.00	-0.1			
	1.1s	55.00nm			5.4mb			0.9s	19.65nm					MTMJ	150.42	311	PKP	24	30.30	5.5X			
CMB	74.41	321	ePd	16	17.30	0.0	TCF	92.38	41	eP	17	59.40	10.6X	AAI	150.69	219	ePKPc	24	31.50	5.8X			
		epP		16	37.00	73km		0.7s	11.60nm					IIDJ	150.83	308	PKP	24	31.30	6.0X			
MHC	74.72	320	eP	16	19.50	0.3	MAF	92.57	42	eP	18	00.20	10.5X	CN2	152.71	335	ePKP	24	27.00	-0.7			
		epP		16	39.40	74km		0.9s	30.30nm						Z 26s	0.70um				5.4MszX			
PAE	74.74	256	eP	16	20.00	0.5	LBL	92.57	43	P	17	59.59	9.9X				PKPab	24	47.00				
	1.1s	55.00nm			5.4mb		PYM	92.64	42	P	18	01.79	11.6X				ePP	28	14.00				
LRM	75.72	331	iPd	16	25.10	0.2	BGF	92.89	41	eP	18	01.70	10.5X	SNY	155.11	335	PKPd	24	31.40	0.4			
		e		16	44.60	72km		0.8s	42.30nm					GKN	155.39	66	PKP	24	32.50	0.4			
ORV	76.06	321	ePd	16	27.20	0.6	AVF	93.31	41	eP	18	03.50	10.5X	DMN	155.89	66	PKP	24	34.00	1.1			

KKN	155.99	66	PKP	24	33.40	0.4
PKI	156.16	66	PKP	24	34.10	0.7
GUN	156.48	65	PKP	24	34.20	0.4
GTA	158.47	22	iPKPd	24	36.80	1.2
			pPKP	24	57.00	
HHC	158.87	357	PKP	24	38.00	2.1X
BJI	159.04	347	ePKP	24	37.00	1.0
			pPKP	24	57.00	
BTO	159.16	0	ePKP	24	37.50	1.2
LSA	160.20	56	PKPd	24	39.80	1.6
TIY	161.92	354	PKPd	24	40.80	1.7
	Z 12s		0.60um			
TIA	162.40	341	PKP	24	40.90	1.3
LZH	162.79	17	PKPd	24	42.00	1.8X
	3.5s		140.00nm			
	Z 25s		0.52um			
SSE	164.82	321	PKP	24	42.00	0.0
	Z 20s		0.90um			
	N 16s		1.00um			
NJ2	165.36	329	PKPc	24	44.00	1.6
XAN	165.67	4	PKPd	24	44.00	1.3
			pPKP	25	05.00	
KHT	168.05	112	PKP	24	46.20	1.3
WHN	168.51	341	PKP	24	46.70	1.9X
			pPKP	25	07.00	
BDT	169.27	101	ePKP	24	43.90	-1.7
KMI	171.37	50	PKPd	24	47.80	1.0
			pPKP	25	07.50	
GYA	172.59	24	iPKPd	24	48.00	0.9
			pPKP	25	08.80	
OIZ	179.32	166	PKP	24	50.00	1.4
			pPKP	25	12.00	
			PKPab	26	42.50	
			PP	30	36.00	
			eSKKS	37	14.00	
			eSS	52	03.00	

S.D. = 1.0 on 140 of 226 obs.

? MAR 01, 1991 16h 39m 43.49± 3.83s
17.785 S ±17.8km 178.871 W ±25.0km
DEPTH = 544.6 ± 37.5 km
4.8mb (11 obs.)
FIJI ISLANDS REGION (181)

DZM	14.45	250	iPc	42	49.10	1.7
CMS	34.70	240	eP	45	50.00	0.7
WRA	44.22	259	P	47	05.00	-1.2
	0.4s		11.80nm		4.8mb	
ASPA	44.40	254	iPc	47	07.40	-0.2
	0.6s		101.20nm		5.5mb	
			iPcP	48	38.80	
			iS	53	00.40	
FORR	49.63	244	iPc	47	46.10	-1.0
	0.4s		39.00nm		5.3mb	
WARB	50.91	250	iPc	47	56.10	-0.5
	0.5s		11.00nm		4.6mb	
MBL	57.58	256	iPc	48	42.50	-1.1
MUN	59.79	243	eP	48	57.60	-0.7
NANU	61.34	254	iPc	49	08.20	-0.4
	0.4s		17.00nm		4.8mb	
MAT	67.55	324	(P)	49	46.00	-1.3
	0.7s		8.22nm		4.4mb	
NJ2	77.52	310	Pd	50	45.20	0.7
MDJ	77.83	325	eP	50	46.00	0.1
CN2	79.65	323	iPd	50	55.60	0.2
	1.0s		10.00nm		4.2mb	
BJI	83.39	316	eP	51	14.50	0.0
	1.5s		35.00nm		4.7mb	
TIY	84.86	312	eP	51	21.80	-0.1
XAN	85.84	308	P	51	27.10	0.4
CHG	88.54	290	eP	51	40.00	0.3
CHTO	88.54	290	iP	51	40.20	0.6
	0.9s		27.71nm		5.1mb	
LZH	90.47	308	iPc	51	49.30	0.9
	1.0s		15.00nm		4.9mb	
YKA	94.40	25	eP	52	03.40	-2.2
	0.7s		0.60nm		3.9mb	
HFS	136.74	351	ePKP	57	53.50	-11.6X
	0.3s		0.80nm			
KRA	144.43	339	ePKP	58	17.60	-1.4
VRI	144.84	328	ePKP	58	27.00	7.1X
KSP	144.87	343	iPKPc	58	19.40	-0.3
	0.7s		24.00nm			
BBTK	144.92	315	ePKP	58	20.00	-0.3
CLL	145.24	347	iPKPc	58	20.20	-0.1
	0.7s		23.00nm			
HRI	145.36	303	ePKP	58	21.50	0.3
BRG	145.44	346	iPKP	58	20.40	-0.3
MLR	145.50	329	ePKP	58	30.00	8.9X
JVI	146.07	301	iPKPc	58	23.50	1.1
PRU	146.11	344	PKP	58	22.70	0.9
MOX	146.16	348	ePKP	58	23.00	1.1
COZ	146.40	330	ePKP	58	33.00	10.4X
PRNI	146.77	298	iPKPc	58	26.00	2.5X
BUD	146.94	338	e(PKP)	58	24.00	0.9
ZST	146.98	340	e(PKP)	58	25.30	2.1X
KHC	147.14	345	PKPc	58	25.70	2.2X
GRF	147.15	348	iPKPc	58	26.10	2.6X
ABH	147.57	352	ePKP	58	26.71	2.5X
DOU	147.65	356	PKPc	58	26.50	2.3X
	0.5s		9.20nm			
CDF	149.04	352	ePKP	58	31.40	4.8X
	0.5s		7.30nm			
FLN	149.07	2	ePKP	58	30.10	3.6X
	0.7s		8.80nm			
KBA	149.10	344	iPKPc	58	28.00	1.2
	0.4s		6.30nm			
			ic	58	29.80	
			i	58	33.90	
LDF	149.25	2	ePKP	58	30.40	3.6X
	0.4s		5.75nm			
GRR	149.43	3	ePKP	58	31.10	4.1X
	0.5s		8.75nm			
HAU	149.56	353	ePKP	58	31.50	4.2X
	0.6s		6.30nm			
BSF	149.68	352	ePKP	58	31.80	4.2X
	0.7s		8.80nm			
LPF	149.78	3	ePKP	58	31.90	4.4X
	0.4s		8.60nm			
VBY	149.95	340	iPKPd	58	33.20	5.3X
VAY	150.19	326	ePKP	58	32.50	4.1X
SKO	150.30	329	iPKP	58	33.00	4.5X
LOR	150.51	356	ePKP	58	33.90	5.2X
	0.3s		7.25nm			
SSF	150.74	357	ePKP	58	34.60	5.5X
	0.4s		7.75nm			
LBF	150.79	356	ePKP	58	34.40	5.2X
	0.5s		5.10nm			
AVF	151.02	357	ePKP	58	34.60	5.1X
MFF	151.24	2	ePKP	58	35.30	5.5X
	0.6s		7.20nm			
OHR	151.26	328	ePKP	58	35.00	4.9X
BGF	151.27	358	ePKP	58	35.50	5.6X
	0.4s		5.15nm			
TCF	151.56	358	ePKP	58	36.10	5.8X
	0.8s		6.05nm			
LSF	151.61	359	ePKP	58	36.00	5.6X
	0.8s		10.05nm			
MAF	151.62	358	ePKP	58	36.50	6.1X
	0.8s		10.05nm			
LPL	151.96	352	ePKP	58	37.90	6.7X
	0.6s		2.70nm			
LPG	151.97	352	ePKP	58	38.00	6.7X
	0.7s		4.40nm			
RJF	152.56	359	ePKP	58	38.40	6.7X

S.D. = 1.0 on 31 of 64 obs.

MAR 01, 1991 17h 30m 26.05± 0.10s
10.939 N ± 2.2km 84.637 W ± 2.1km
DEPTH = 196.5km (geophysicist)
6.1mb (100 obs.)
COSTA RICA (78)

MD 6.0 (HDC), 5.7 (SJR), 5.5 (UPA). Felt lightly in the Central Valley and at Guanacaste. Two events about 1.5 seconds apart. Depth from broadband displacement seismograms, based on second event.

FAULT PLANE SOLUTION: P-Waves
NP1:Strike=130 Dip=62 Slip= 100
NP2: 289 30 72
Principal Axes:
T Plg=71 Azm= 62
P 16 213

Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting with a small strike-slip component. The preferred fault plane is not determined.

RADIATED ENERGY
No. of sta: 8 Focal mech. F
Energy 1.1±0.3•10••13 Nm
MOMENT TENSOR SOLUTION
Dep 197 No. of sta: 16
Moment Tensor; Scale 10••18 Nm
Mrr= 2.12 Mtt=-1.64
Mff=-0.49 Mrt= 0.54
Mrf=-0.32 Mtf= 0.91
Principal axes:

	T	Val= 2.21	Plg=82	Azm= 32
	N	0.02	0	299
	P	-2.23	8	209

Best Double Couple:Mo=2.2•10••18
NP1:Strike=298 Dip=37 Slip= 89
NP2: 119 53 91
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 22S, 52C
Centroid Location:
Origin Time 17:30:32.3 0.2
Lat 10.89N 0.02 Lon 84.67W 0.02
Dep 199.9 0.9 Half-duration 4.5
Moment Tensor; Scale 10••18 Nm
Mrr= 1.55 0.03 Mtt=-1.15 0.04
Mff=-0.40 0.05 Mrt= 0.97 0.04
Mrf=-0.54 0.04 Mtf= 0.39 0.05
Principal Axes:

	T	Val= 1.93	Plg=71	Azm= 32
	N	-0.24	2	296
	P	-1.69	19	205

Best Double Couple:Mo=1.8•10••18
NP1:Strike=291 Dip=26 Slip= 85
NP2: 117 64 93

EPA	0.95	178	P	30	54.90	-0.5
HDC2	1.04	151	P	30	56.60	0.5
PTCR	1.16	170	P	30	56.40	-0.7
JUD	1.18	229	P	30	55.70	-1.5
IRZ2	1.21	143	P	30	58.30	0.6
OCM	1.23	147	P	30	57.70	0.0
VTU	1.26	136	P	30	58.60	0.4
CAO	1.31	200	P	30	56.40	-1.7
OPS	1.61	162	P	31	00.80	0.1
CDM	1.62	148	P	31	01.60	0.2
TIG	2.31	145	P	31	08.60	0.6
CTCR	2.75	138	P	31	13.90	0.7
PBC	2.96	148	P	31	16.30	0.8
DVD	3.29	139	iPc	31	20.30	0.8
			(S)	31	55.50	
UPA	5.39	111	iPd-	31	48.20	2.1
	0.8s		208.96nm		5.4mb	
			S	32	49.00	
OZG	5.91	309	ePd	31	54.50	1.4
YUP	5.99	303	ePd	31	53.00	-1.1
MRL	6.41	310	ePd	32	01.50	2.0
GCG	6.80	303	eP	32	05.60	1.0
BVA	6.93	303	ePd	32	01.70	-4.7X
JAT	7.61	297	eP	32	16.00	0.7
SBG	8.34	301	ePd	32	25.50	0.4
TPX	8.41	299	(P)	32	26.36	0.7
SPJ	9.80	44	eP	32	48.62	4.8X
PCJ	9.90	46	eP	32	49.40	4.4X
BBJ	10.27	43	eP	32	55.97	6.0X
HOJ	10.37	46	eP	32	55.10	4.0X
STH	10.38	46	ePc	32	55.30	4.1X
YHJ	10.48	48	eP	32	58.00	5.4X
BMG	12.05	108	iPc	33	15.00	2.2
PSO	12.10	143	eP	33	16.50	2.7X
BOG	12.21	120	iPc	33	20.00	4.9X
			iS	35	37.00	
COTA	12.25	149	P	33	17.50	1.6
YANA	12.53	151	P	33	21.80	2.5
GGP	12.57	151	P	33	22.40	2.5
OUR	12.60	151	iPd	33	22.00	1.9
OTO	12.63	151	iPd	33	22.90	2.4
CAYA	12.65	148	eP	33	23.50	2.6
VC1	13.06	151	eP	33	29.50	3.4X
OXX	13.22	299	(P)	33	28.26	0.5
LVVM	14.35	309	(P)	33	42.50	0.8
TOV	14.65	93	iPc	33	47.70	2.3
IISM	14.67	305	(P)	33	46.65	1.0
IIT	15.45	303	(P)	33	58.00	2.5
PPM	15.74	303	(P)	34	01.17	1.9
ACX	15.90	293	(P)	34	03.37	2.6
MORO	16.03	89	iP	34	03.90	1.5
III	16.13	299	(P)	34	06.62	2.8
CEOS	16.17	95	iP	34	04.80	0.7
UNM	16.32	302	(P)	34	11.00	4.8X

01d 17h

GUAC	17.09	91	iP	34	15.40	0.2	DLA	31.91	4	P	36	35.25	0.3				ePcP	39	47.00				
LLAV	17.53	90	iP	34	20.00	0.2	CNCB	32.12	149	Pc	36	37.10	-0.5	KVN	40.87	319	P	37	50.00	-0.5			
OLLA	17.56	91	iP	34	19.20	-1.0	LDN	32.12	5	P	36	36.95	0.2	PRI	41.10	314	eP	37	54.20	1.9			
MRX	18.18	301	(P)	34	28.48	1.9	ELF	32.26	5	P	36	38.00	0.0				ePcP	39	49.30				
MGP	18.38	66	P	34	29.80	1.1	HRV	33.46	18	ePc	36	49.61	1.3	PRS	41.69	313	eP	37	58.30	1.3			
MCP	18.50	64	P	34	31.40	1.3				ic	36	50.77					ePcP	39	51.20				
PORP	18.80	66	P	34	34.50	1.4				ed	37	54.33		CMB	41.84	316	eP	37	58.50	0.2			
SJG	19.25	66	iP	34	39.50	1.7				eS	41	59.04					ePcP	39	50.20				
LPR	19.57	66	P	34	41.80	0.7				esS	43	09.94		SAO	41.95	314	eP	38	01.60	2.5			
CGX	20.12	298	(P)	34	50.00	3.2X				eSS	44	31.72					ePcP	39	51.90				
HBF	22.24	9	P	35	10.60	3.4X	GLD	34.02	331	eP	36	53.00	-0.4	LRM	42.08	331	eP	37	59.90	-0.5			
TPP	22.80	89	eP	35	16.00	3.2X		1.0s	200	.00nm		5.7mb					e	38	44.90				
TRN	22.82	89	eP	35	12.08	-1.0				e	37	35.50		ARN	42.29	315	P	38	02.30	0.4			
PAG	22.88	75	eP	35	15.00	1.3				ePP	38	20.50		GCC	42.46	314	ePc	38	04.80	1.6			
FCV	22.98	82	eP	35	16.93	2.3	GOL	34.05	331	ePc	36	52.40	-1.3	BKS	43.03	315	iPc	38	09.70	1.8			
BBL	22.99	76	eP	35	16.50	1.8		1.0s	106	.25nm		5.4mb			1.1s	221	.00nm		5.6mb				
SVV	23.02	82	eP	35	17.63	2.7				epP	37	36.80	214kmX				iPcP	39	56.60				
MDN	23.04	77	eP	35	17.85	2.7				ePP	38	22.50		BRK	43.04	315	eP	38	08.20	0.2			
DPMT	23.04	77	eP	35	17.72	2.5				iPcP	39	27.40					ePcP	39	55.50				
DBCT	23.08	77	eP	35	17.78	2.2	RSNY	34.60	13	iPd	36	58.30	0.2	ORV	43.36	318	eP	38	10.30	-0.3			
SOA	23.09	82	eP	35	18.13	2.5		1.0s	824	.29nm		6.3mb		MIN	43.84	318	eP	38	13.30	-1.3			
SEG	23.11	74	eP	35	17.50	1.6				iPP	38	28.00		WDC	44.57	318	ePc	38	17.00	-3.2X			
PRM	23.13	5	P	35	18.00	2.1				eS	42	14.20					ePcP	39	58.50				
MGG	23.21	75	eP	35	19.00	2.2				eScP	43	32.60		BAO	44.87	125	iPc	38	23.50	0.5			
SLB	23.22	80	eP	35	18.68	1.7	HBVT	34.77	15	P	36	59.60	0.2	ZON	44.93	161	ePc	38	23.50	0.4			
BIM	23.26	79	eP	35	18.80	1.5	PV09	35.10	326	eP	37	01.50	-1.2				i	39	58.50				
SLW	23.34	80	eP	35	20.21	2.1				ePP	38	32.90		SES	44.94	336	ePc	38	22.00	-1.0			
MVM	23.43	79	eP	35	21.13	2.2				ePcP	39	31.20			2.3s	1650	.00nm		6.1mb				
CRM	23.43	78	eP	35	21.10	2.2	GLA	35.39	313	eP	37	05.00	0.1				pP	39	08.00	213kmX			
JSC	23.44	7	P	35	21.20	2.4				e	39	31.00		BDF	44.96	125	ePc	38	22.78	-0.9			
DEG	23.52	74	eP	35	19.50	-0.3	BNH	35.46	17	P	37	06.20	0.9				ic	38	23.77				
MZX	24.09	303	(P)	35	27.47	2.4	SIV	35.50	139	iPc	37	04.60	-1.3				ed	39	06.64				
PT10	24.10	161	e(P)	35	27.00	1.8	GAC	35.52	11	ePc	37	06.30	0.6				ePP	40	13.60				
PWLA	24.13	353	P	35	26.10	0.7		0.5s	91	.00nm		5.7mb					eS	44	43.63				
RSCP	24.56	358	iPc	35	30.50	1.1	BAR	36.54	311	eP	37	16.00	1.5				esS	46	01.01				
GBTN	24.62	1	P	35	31.70	1.8				e	39	35.00					eSS	48	19.24				
TKL	24.62	2	P	35	31.60	1.7	MIM	36.71	19	P	37	17.30	1.6	JACH	45.40	163	ePc	38	27.60	0.7			
OLY	25.23	347	P	35	35.10	-0.4	EMM	36.77	21	P	37	17.50	1.3	ROCH	45.56	164	eP	38	27.50	-0.8			
BLA	26.43	8	iPc	35	48.10	1.6	TPC	36.81	314	eP	37	18.00	1.2	FHC	45.63	318	eP	38	29.00	0.4			
	1.3s	615	.38nm		6.2mb					e	39	36.00		FFC	45.78	346	iPc	38	28.90	-0.6			
NAV	26.49	7	P	35	48.20	1.2	MSU	36.86	323	P	37	17.10	-0.3		0.6s	161	.00nm		5.6mb				
ELC	26.56	352	P	35	47.20	-0.4	RSSD	37.07	337	ePd	37	19.10	0.1	PEL	45.81	164	iPc	38	29.50	-0.5			
FVM	27.43	350	iPc	35	54.90	-0.5		1.0s	246	.75nm		5.8mb		LCCH	45.89	165	eP	38	30.00	-0.6			
	1.5s	1365	.85nm		6.5mb					e	37	31.00		SCH	45.99	14	ePc	38	31.20	0.0			
			e(pP)	36	38.00	216kmX				ipP	38	04.20	211kmX		0.8s	414	.00nm		5.9mb				
CCM	27.64	349	ePc	35	57.28	-0.1				ePP	38	54.10		NEW	46.07	330	eP	38	30.50	-1.4			
			ic	35	58.94					iPcP	39	36.00			1.0s	65	.00nm		5.0mb	X			
			ePcP	39	13.32		PEC	37.49	313	eP	37	22.50	0.0				epP	39	15.60	208kmX			
CBN	27.92	12	eP	36	01.80	2.0				iPcP	39	37.60					ePP	40	03.50				
ARE	30.17	154	iPc	36	22.00	1.6	RVR	37.70	313	eP	37	26.00	1.8				ePPP	41	03.10				
			i	39	17.00					e	39	38.00		ITB1	46.07	140	e(P)	38	30.50	-1.6			
			e	41	06.00		GSC	37.96	315	ePc	37	27.93	1.4	SAN	46.11	164	eP	38	32.50	0.1			
SCP	30.33	10	ePc	36	22.20	1.0				e	39	39.00		TACH	46.22	164	eP	38	32.60	-0.7			
			ic	36	23.69					eS	43	06.75		TCA	46.22	156	ePc	38	32.10	-1.3			
			e	37	22.79					esS	44	13.63					i	40	05.80				
			e	37	26.93		MWC	38.30	313	eP	37	33.00	3.5X	PPD	46.29	135	eP	38	32.10	-1.8			
			e	38	04.74					e	39	41.00					e	38	33.00				
			iS	41	10.41		PAS	38.35	312	ePc	37	31.24	1.6				e	38	37.40				
			e	42	21.31					e	38	15.44		ITB	46.29	140	e(P)	38	32.40	-1.5			
			ePcS	42	55.80					e	39	40.00		PCH	46.31	164	eP	38	33.50	-0.5			
CLE	30.55	5	iP	36	23.70	0.6	SBB	38.37	313	eP	37	32.00	2.2	DPW	46.34	329	P	38	33.00	-1.1			
LVNJ	31.00	15	P	36	28.20	1.2				e	39	40.00		LNV	46.38	165	ePc	38	33.50	-1.0			
ALQ	31.07	324	iPc+	36	27.00	-1.0	BW06	38.43	330	iPc	37	29.00	-1.5	ITB7	46.55	141	eP	38	34.20	-1.7			
	1.0s	75	.75nm		5.4mb			1.0s	86	.67nm		5.3mb		COR	47.17	323	ePc	38	40.76	0.2			
			ipP	37	10.00	211kmX				epP	38	14.00	213kmX				ec	39	25.45				
ANMO	31.08	324	ePc	36	27.43	-0.6				ePP	39	00.00		SOB1	47.89	113	eP	38	44.80	-1.8			
	1.0s	81	.25nm		5.4mb					iPcP	39	38.00		PNT	48.00	330	ePc	38	46.00	-0.9			
			ic	36	28.75		CBM	38.50	18	ePc	37	32.20	1.5		1.4s	382	.00nm		5.7mb				
			ed	37	09.47					e	38	04.50		EDM	48.04	337	ePc	38	45.50	-1.7			
			iPP	37	48.80					e	38	23.10		GMW	48.56	326	P	38	49.20	-2.0			
			iPcP	39	19.50					ePP	39	10.00					pP	39	35.80	213kmX			
			eS	41	21.30		CLC	38.78	315	eP	37	33.00	-0.2	VAO	49.98	133	eP	39	00.30	-2.2			
			e	42	42.96		ISA	39.31	314	ePc	37	38.50	0.9				e	39	01.20				
GMTN	31.22	15	iP	36	30.40	1.5				ic	37	39.66					i	39	06.40				
			i	37	22.80					e	38	20.55					i	39	19.50				
			i	37	34.30					e	38	42.73					e	39	45.10				
			i	37	51.20					iPcP	39	43.97					e	39	56.90				
PNJ	31.25	15	iP	36	30.90	1.7				eS	43	28.27					e	40	17.60				
			pP	37	16.00	222kmX				e	45	00.97					i	41	01.70				
TBR	31.45	15	P	36	31.80	0.8				e	47	27.61		PDCR	50.85	116	ePd	39	06.50	-2.6			
TXNY	31.49	15	P	36	32.70	1.4	ABL	39.45	313	P	37	40.00	1.1				e	39	18.60				
ZOBO	31.59	149	Pc	36	32.20	-0.8	TNP	39.75	318	iP	37	41.80	0.4				i	39	25.80				
	1.0s	90	.00nm		5.4mb			1.0s	125	.00nm		5.4mb					e	39	38.50				
Z	24s	3	.35um		4.9MszX					iPcP	39	44.60		BMA	51.87	130	eP	39	15.50	-1.2			
			S	41	09.00		PTI	39.93	328	P	37	43.00	0.3				e	39	28.30				
			LR	43	00.00					pP	38	26.80	206kmX				e	39	46.20				
WVLY	31.86	9	P	36	35.30	0.8	FRI	40.84	315	eP	37	49.80	-0.2	LPA	52.15	152	iPc+	39	17.60	-0.8			

	1.0s	3232.00nm		6.9mb		DAG	73.98	13	iPd	41 39.50	-1.6		EPF	78.97	48	iPc	42 09.30	-0.3
		iPcP	40 02.00				0.8s	194.03nm		5.9mb				1.3s	761.55nm		6.3mb	
		iS	46 25.60			BRW	73.99	341	ePc	41 40.50	-0.7		LFF	79.11	46	iPc	42 09.60	-0.6
FRB	53.95	9 ePc	39 29.50	-1.8		ECP	74.25	39	eP	41 42.00	-1.0		LPO	79.45	46	iPc	42 11.30	-0.7
	0.7s	651.00nm		6.4mb			1.2s	1445.00nm		6.6mb			MLS	79.52	48	P	42 11.75	-0.7
YKA	55.81	344 eP	39 43.50	-1.2		EPLA	74.31	51	iPd	41 43.60	-0.1		LSF	79.55	45	eP	42 11.60	-0.9
	0.8s	208.20nm		5.9mb		ETA	74.36	38	eP	41 42.80	-0.9		RJF	79.63	46	iPc	42 12.20	-0.7
RKT	59.77	235 iP	40 12.60	-0.2			1.4s	1128.00nm		6.4mb			TCF	80.02	45	eP	42 14.10	-0.9
	1.4s	305.00nm		5.9mb		GIBL	74.51	55	eP	41 47.00	2.1		CAF	80.05	46	eP	42 14.50	-0.7
GDH	61.59	12 iPd	40 22.80	-1.6		PLAT	74.69	55	eP	41 47.00	1.0		MAF	80.27	45	eP	42 15.30	-1.1
	1.4s	1162.79nm		6.5mb		EJIF	74.91	55	iPd	41 48.10	0.9		BGF	80.43	44	eP	42 16.20	-1.0
		i	45 13.00			EHOR	75.03	54	iPd	41 47.80	0.0		BER	80.57	30	iPc	42 17.80	0.3
		i	45 25.00			EPRU	75.08	55	iPc	41 48.40	0.2		KBS	80.60	11	eP	42 17.80	0.3
CHIE	64.41	64 iPc	40 44.00	0.4		JNW	75.24	19	iPd	41 49.50	1.1		PYM	80.63	45	P	42 17.45	-0.9
		i	41 15.50			IFR	75.34	58	iPd	41 50.50	0.6		AVF	80.75	44	iPc	42 17.70	-1.1
TBT	64.47	63 ePd	40 44.00	0.1		EAB	75.59	35	ePc	41 50.90	0.3		SSF	80.83	44	eP	42 18.10	-1.1
		i	41 15.80				1.2s	276.00nm		5.9mb			LBL	80.85	46	P	42 18.99	-0.3
BALM	65.16	333 eP	40 47.00	-1.0		MAL	75.75	55	iPc	41 52.50	0.6		ETER	80.89	49	iPc	42 20.20	0.6
		ePcP	41 19.30						iPP	44 46.00			SNF	80.97	40	P	42 18.80	-1.0
INK	65.47	342 iPc	40 48.30	-1.4					iS	52 16.00						e	43 09.40	
	1.0s	570.00nm		6.3mb					iPS	53 44.00						PP	45 27.10	
		pP	41 19.00	125kmX		GUD	75.77	51	iPd	41 52.40	0.3		UCC	80.99	40	iP+	42 20.00	0.1
CTFE	65.92	64 ePc	40 44.30	-8.9X		TOL	75.88	52	ePc	41 51.63	-1.0					e	43 09.00	
MBO	65.92	79 iPc	40 54.90	1.5			1.2s	1031.25nm		6.4mb						PP	45 26.00	
GGC	66.47	64 iPc	40 57.50	0.7					ic	41 52.62						PPS	53 38.00	
		e	41 20.00						ed	42 40.63			PLDF	81.03	45	P	42 19.45	-0.9
KLU	66.93	333 P	40 58.00	-1.2					ePP	44 37.00			LOR	81.05	44	eP	42 19.20	-1.2
TOA	67.26	333 ePc	41 02.00	0.8					eS	50 32.00				1.4s	476.50nm		6.0mb	
RUV	67.35	248 iP	41 02.40	0.1					eSS	51 28.00			SMF	81.10	44	eP	42 19.40	-1.3
	1.1s	370.00nm		6.0mb		ELO	75.95	34	ePc	41 52.90	0.3		LBF	81.16	44	eP	42 19.70	-1.3
		ipP	41 47.40	190kmX			1.2s	315.00nm		5.9mb			DOU	81.22	41	Pc	42 20.10	-1.0
TPT	67.50	249 iP	41 03.60	0.3		EBH	76.06	35	eP	41 53.60	0.4			1.3s	942.90nm		6.4mb	
	1.1s	295.00nm		5.9mb			1.1s	354.00nm		6.0mb						e	43 12.00	
		ipP	41 48.50	190kmX		EAU	76.08	35	eP	41 53.70	0.4					PPS	53 36.00	
VAH	67.59	248 iP	41 04.20	0.4			1.1s	238.00nm		5.8mb			ESEL	81.21	51	iPc	42 21.70	0.3
	1.1s	295.00nm		5.9mb		EBAN	76.17	53	iPd	41 54.10	-0.1		DBN	81.35	39	iP+	42 23.00	1.2
		ipP	41 49.20	190kmX		ESK	76.21	36	iPc	41 53.00	-1.1					e(pP)	43 13.00	206kmX
PMO	67.76	249 iP	41 05.30	0.4			1.5s	500.00nm		6.0mb						e	53 46.00	
	1.1s	220.00nm		5.8mb		ANM	76.21	334	eP	41 53.60	-0.3					e	59 00.00	
		ipP	41 50.40	191kmX		EDI	76.23	35	ePc	41 54.60	0.5		SSB	81.75	46	P	42 23.07	-1.1
CFTV	67.84	64 ePd	41 05.20	-0.1			1.1s	94.00nm		5.4mb			ENN	81.98	40	ePc	42 24.50	-0.6
MBC	67.90	352 iPc	41 03.80	-1.0		EKA	76.24	36	Pd	41 53.40	-0.8			1.3s	946.00nm		6.4mb	
	0.7s	109.00nm		5.7mb			1.3s	1041.00nm		6.4mb						e	43 14.50	
PMR	68.42	332 ePc	41 07.00	-1.2		EBL	76.31	35	ePc	41 54.90	0.3					e	45 42.50	
	0.9s	102.10nm		5.6mb			1.2s	164.00nm		5.6mb			MEM	82.05	40	Pc	42 24.60	-0.8
REY	68.48	25 iP	41 07.70	-0.9		EDU	76.34	34	ePc	41 55.40	0.7					e	43 14.60	
SLKM	68.61	331 eP	41 08.20	-1.3			1.3s	921.00nm		6.4mb			WIT	82.17	38	eP	42 26.50	0.5
		ePcP	41 33.60			ECOG	76.39	54	iPd	41 55.80	0.2					e	43 17.00	
		epP	41 56.70	206kmX		AFC	76.41	54	iPc	41 56.00	0.2					e	45 37.00	
		ePP	43 40.80			ESY	76.55	35	ePc	41 56.40	0.4					e	45 41.00	
COL	68.92	336 ePc	41 09.78	-1.5			1.4s	276.00nm		5.8mb			KLL	82.24	40	Pc	42 24.40	-2.1
		ic	41 11.27			EDR	76.60	34	ePc	41 56.50	0.3			1.6s	283.00nm		5.7mb	
		iPcP	41 34.45				1.2s	482.00nm		6.1mb			VITF	82.35	42	P	42 26.20	-0.9
		ePP	43 48.35			ECRI	76.91	49	iPd	41 58.70	0.4		WTS	82.37	39	eP	42 26.50	-0.5
FBA	68.92	336 ePc	41 10.20	-1.1		EVIA	77.14	53	iPd	41 59.90	0.2			1.2s	1046.00nm		6.4mb	
RSO	69.81	331 eP	41 15.40	-1.6		ETOR	77.35	50	iPd	42 01.30	0.5					e	43 17.00	
		ePP	43 50.20			ENIJ	77.49	54	iPc	42 01.30	-0.2					e	45 36.00	
TVO	69.88	246 iP	41 18.30	0.3		AIA	77.49	171	eP	42 01.60	0.8					e	45 46.00	
	1.1s	195.00nm		5.8mb		LKO	77.58	83	P	42 02.10	-0.3					e	46 38.00	
PPN	69.97	247 iP	41 18.60	0.2			1.3s	802.00nm		6.3mb			STB	82.58	40	iPc	42 27.70	-0.5
	1.1s	190.00nm		5.7mb		LPF	77.69	43	iPc	42 01.50	-0.8			1.6s	389.00nm		5.9mb	
PPT	70.11	247 iP	41 19.40	0.1		GRR	77.79	43	iPc	42 02.20	-0.7		HAU	82.62	43	iPc	42 27.70	-0.9
	1.1s	240.00nm		5.8mb		BOH	77.98	48	P	42 04.24	0.0			1.6s	680.20nm		6.1mb	
PAE	70.14	247 iP	41 19.80	0.4		ELYF	77.99	48	P	42 03.37	-0.9		BNS	82.74	40	ePd	42 29.10	0.1
	1.1s	285.00nm		5.9mb		FLN	78.02	42	eP	42 03.60	-0.6			1.4s	989.00nm		6.4mb	
AKU	70.51	24 iP	41 20.80	-0.1			1.3s	1128.20nm		6.4mb			ADK	82.75	321	P	42 29.00	0.0
	1.4s	1181.40nm		6.4mb		MADF	78.12	48	P	42 03.46	-1.4			1.0s	1200.00nm		6.6mb	
		i	43 45.80			ISSF	78.14	48	P	42 05.08	-0.1					pP	43 16.00	192kmX
DHH	70.54	289 P	41 23.00	1.2		ATE	78.21	48	P	42 04.78	-0.6		KONO	82.79	31	ePc	42 29.68	0.6
HON	70.72	289 P	41 24.50	1.6		ECHE	78.26	52	iPc	42 06.60	0.8					ic	42 31.34	
SVW	71.32	331 ePc	41 24.10	-1.8		LDF	78.27	42	iPc	42 04.80	-0.7					ePP	45 42.74	
IMA	71.61	336 ePc	41 26.20	-1.5		LHE	78.28	48	P	42 05.75	-0.1					e	46 22.19	
VAL	71.84	39 iP	41 28.60	-0.4		ESCF	78.30	48	P	42 05.41	-0.5		CDR	82.84	47	ePc	42 28.80	-0.9
TTA	71.87	333 ePc	41 28.70	-0.5		OGE	78.37	48	P	42 05.58	-0.7		BSF	82.95	43	P	42 29.01	-1.3
TBI	71.96	241 iP	41 30.60	0.4		MFF	78.37	44	eP	42 05.60	-0.6		LOMF	83.04	43	P	42 29.69	-1.1
	1.4s	270.00nm		5.8mb		JAU	78.46	48	P	42 06.73	-0.2		MUD	83.07	34	iPc	42 31.10	0.6
EZAM	72.33	49 iPd	41 32.00	-0.2		BTH	78.57	48	P	42 08.00	0.7			1.6s	630.00nm		6.1mb	
PTO	72.39	50 iPc	41 32.30	-0.2					sPcP	43 19.00						i	43 21.60	
		e(S)	51 47.00						e	54 10.00						e	45 40.00	
STS	72.46	48 iPd	41 32.40	-0.5		TIC	78.61	85	P	42 07.72	-0.4		ECH	83.13	42	P	42 30.03	-1.1
SDN	73.03	325 ePc	41 36.70	0.8			1.3s	1006.50nm		6.4mb			ABH	83.13	41	eP	42 30.60	-0.5
EMON	73.36	48 iPc	41 37.60	-0.6		LIC	78.67	86	P	42 08.28	-0.1		RSL	83.15	45	P	42 30.51	-0.9
AVE	73.45	58 iPd	41 38.60	-0.2			1.4s	1529.00nm		6.5mb			MOF	83.17	43	P	42 30.29	-1.1
		i	42 27.50			ACU	78.79	53	iPd	42 08.90	0.2		CDF	83.18	42	P	42 30.29	-1.2
ERUA	73.49	49 iPd	41 38.80	-0.1		KIC	78.93	86	P	42 09.70	-0.1		NAO	83.19	29	P	42 30.00	-1.1
TIO	73.69	61 iP	41 41.50	1.1			1.4s	1286.50nm		6.5mb			WLS	83.23	42	P	42 30.71	-1.0
		i	42 19.00						S	51 51.00			LPL	83.25	45	eP	42 31.80	-0.2

01d 17h

LPG	83.26	45	eP	42	32.10	-0.1					ePP	46	16.00			LJU	88.49	43	ePc	42	56.80	-0.7
	1.6s	388.70nm			5.9mb		BRL	86.20	37	eP	42	47.00	0.8					e		43	49.50	
BNI	83.28	46	P	42	33.10	1.0	WATA	86.22	43	iPc	42	45.60	-1.1					e		46	35.00	
LRG	83.29	47	eP	42	31.60	-0.4		1.8s	525.00nm			6.1mb						e(S)		53	24.00	
	1.5s	386.50nm			5.9mb					i	42	46.80						e		54	35.00	
EMS	83.30	44	ePd	42	32.10	-0.2	MME	86.26	46	P	42	46.80	-0.3			CEY	88.50	44	ePc	42	56.60	-0.9
GWF	83.32	42	P	42	31.22	-0.9	CLL	86.28	39	iPc	42	46.40	-0.3					i		43	49.50	
RRL	83.37	46	P	42	33.02	0.3		1.7s	880.00nm			6.3mb				RIY	88.56	44	eP	42	57.60	-0.1
LMR	83.42	47	eP	42	32.00	-0.6				epP	43	36.00	202kmX			AZI	88.69	48	P	42	58.50	0.1
FOUF	83.43	46	ePc	42	32.90	0.3				PKKP	00	43.90				VKA	89.11	41	iPc	42	57.40	-2.9X
			i(pP)	43	23.20	206kmX				P'P'	08	43.60					2.5s	1493.00nm			6.5mb	
BBS	83.48	43	P	42	32.08	-0.9	BSD	86.52	35	iPc	42	49.80	2.1						i	43	01.10	
FRF	83.48	47	eP	42	32.30	-0.7		1.0s	250.00nm			6.0mb							i	43	51.00	
LSD	83.55	45	P	42	33.85	0.2				i	43	39.70							e	45	57.00	
CALN	83.63	47	P	42	32.99	-0.9	CTI	86.54	44	P	42	47.30	-0.9						i	46	40.40	
DIX	83.63	44	ePd	42	34.40	0.4	WET	86.68	41	iPc	42	48.80	0.1			VBY	89.12	44	iPc	43	01.00	0.6
PZZ	83.66	46	P	42	34.26	0.2	UPP	86.70	30	iPd	42	47.50	-1.0						i	43	52.40	
RSP	83.67	45	P	42	34.46	0.4				i	43	37.80							i	47	33.20	
TEGH	83.70	85	eP	42	35.00	0.4	MAO	86.94	48	P	42	50.60	0.5			RFI	89.25	48	P	43	02.42	1.4
BHB	83.72	46	P	42	33.85	-0.3	BRG	86.96	39	iP	42	49.00	-1.0				1.7s	2716.70nm			6.9mb	
FEL	83.75	43	P	42	33.43	-1.0		1.4s	560.00nm			6.2mb				DUI	89.51	48	P	43	02.50	0.1
DOI	83.76	46	P	42	35.00	0.5				i	42	56.30				ZST	89.63	41	eP	43	02.30	-0.4
TOUF	83.84	46	P	42	34.69	-0.3				ipP	43	39.50	205kmX						i	43	53.10	
STV	83.86	46	P	42	34.05	-0.9				i	44	08.50							i	46	44.20	
AURF	83.92	47	P	42	33.90	-1.4				i	44	31.50							i	00	35.80	
ENR	83.93	46	P	42	34.46	-0.9				i	45	51.80							e	08	44.70	
REVF	83.97	47	P	42	33.62	-1.9				iP'P'	53	36.70				NUR	89.81	28	iP	43	02.90	-0.3
AUTN	83.97	46	P	42	34.40	-1.3				i	53	44.00					1.3s	254.00nm			6.0mb	
SBF	84.00	47	eP	42	34.90	-0.7				iPKKP	00	42.70							i	43	53.00	
MMK	84.02	44	ePd	42	36.60	0.7	BHG	87.00	42	iPd	42	50.40	0.1						i	46	40.20	
ZLA	84.07	43	ePd	42	35.70	-0.2		1.7s	1160.00nm			6.4mb							e	47	44.00	
SAOF	84.07	46	P	42	35.40	-0.5	PGD	87.04	46	P	42	49.50	-1.3						e	54	44.00	
SLE	84.09	43	ePd	42	35.60	-0.4	VVI	87.08	44	P	42	50.70	0.0						e	56	08.00	
ORX	84.10	45	P	42	35.69	-0.5	KEV	87.10	19	iP	42	50.00	-0.3			AFI	89.85	256	P	43	07.00	2.6
ORO	84.10	45	P	42	35.70	-0.4		1.5s	278.30nm			5.9mb				KAF	89.92	26	eP	43	02.90	-0.9
ROB	84.24	46	P	42	36.31	-0.5				i	43	40.00					1.0s	58.20nm			5.5mb	
IMI	84.32	47	P	42	36.51	-0.7				i	46	16.00				SGO	90.41	49	P	43	06.40	0.0
STU	84.38	42	iPd+	42	37.00	-0.3				e	47	24.00				SRO	90.52	41	eP	43	05.60	-1.2
	1.3s	730.77nm			6.3mb					e	53	12.00							i	43	59.20	
	Z 20s	0.71um			5.0Msz					e	54	28.00							e	46	02.50	
TRO	84.49	20	iPc	42	37.50	0.0	SFI	87.13	46	P	42	50.10	-0.8						i	46	42.30	
FIN	84.49	46	P	42	37.23	-0.8	KHC	87.13	41	iPc	42	50.70	-0.2			HVAR	90.55	46	iP	43	07.20	0.2
CKI	84.51	46	P	42	37.80	-0.3		1.4s	279.00nm			5.9mb				MGR	90.70	49	P	43	07.10	-0.7
LLS	84.58	43	ePd	42	39.10	0.4		Z 18s	2.00um			5.6Msz				KRA	90.87	39	eP	43	08.10	-0.3
VAI	84.60	44	P	42	37.80	-0.7		N 19s	0.70um								1.6s	448.00nm			6.2mb	
PCP	84.67	46	P	42	38.36	-0.6		E 19s	1.50um										e	44	00.10	
HFS	84.72	30	eP	42	37.50	-1.3				e	43	40.30				PZI	90.99	52	P	43	10.46	1.2
	1.1s	265.60nm			5.9mb					e	46	11.00					3.0s	1258.60nm			6.4mb	
SAX	84.75	43	ePd	42	39.60	0.0	FVI	87.19	43	P	42	50.60	-0.5			UZD	91.05	42	iP	43	09.50	0.2
VDL	84.97	44	ePd	42	40.80	0.2	CRE	87.26	46	P	42	50.00	-1.7			BUD	91.08	41	iP	43	09.50	0.1
COP	85.01	34	iPc+	42	41.30	1.0	KBA	87.45	43	iPc	42	51.80	-0.9			SPC	91.33	39	eP	43	10.40	-0.4
	1.2s	606.25nm			6.2mb			1.4s	612.00nm			6.3mb							e	44	01.90	
			ipP	43	32.40	209kmX				i	42	53.00							e	46	42.80	
			i	43	51.00					i	42	59.20							e	46	58.10	
			e	54	17.00					i	43	36.50				ORI	91.38	49	P	43	09.80	-1.1
MDI	85.26	44	P	42	40.80	-1.0				i	43	42.40				TDS	91.40	49	P	43	10.90	-0.1
BOB	85.27	45	P	42	41.30	-0.7				i	46	13.90				PSZ	91.50	41	iP	43	12.70	1.3
PGF	85.35	48	P	42	41.68	-0.8				i	46	19.40				BRT	91.71	48	P	43	11.70	-0.8
GRF	85.51	40	iPc	42	42.80	-0.2				i	46	27.20				TIM	93.06	42	iPc	43	21.50	3.0X
	1.5s	870.00nm			6.3mb					e	53	15.00				CEI	93.21	40	eP	43	23.00	3.8X
	Z 20s	2.00um			5.5Msz		PRU	87.54	40	P	42	53.00	0.2			BZS	93.36	42	eP	43	25.50	5.6X
		e	42	49.80				1.8s	343.80nm			5.9mb				BMR	93.88	40	ePd	43	40.00	17.7X
MOX	85.57	39	iP+	42	43.00	-0.2		Z 18s	2.20um			5.6Msz				KEK	93.95	48	eP	43	23.50	0.7
	1.9s	1065.00nm			6.3mb			E 18s	1.60um							OHR	94.24	47	iPc	43	24.50	0.3
	Z 18s	2.30um			5.6Msz					e	42	58.70					1.4s	433.00nm			6.4mb	
	E 20s	1.50um								i	43	43.20							i	44	16.70	
		ipP	43	30.00	190kmX		RSM	87.55	46	P	42	53.40	0.5						i	47	20.30	
HOF	85.80	40	eP	42	43.70	-0.7	KMR	87.74	42	iP+	42	53.60	-0.2			IGT	94.40	49	iPd	43	25.66	0.8
	1.5s	407.00nm			6.0mb					ipP	43	44.70	207kmX			SKO	94.43	46	iPd	43	24.60	-0.3
FUR	85.85	42	eP	42	45.00	0.3				iPP	46	22.30					1.4s	245.00nm			6.2mb	
	1.6s	628.00nm			6.2mb		ASS	87.89	47	P	42	53.50	-1.2						i	43	31.00	
SAL	85.86	45	P	42	44.40	-0.3	SOD	87.94	21	iP	42	53.40	-1.0						i	44	16.80	
MOTA	85.90	43	iPc	42	44.20	-1.0				i	43	43.00							i	46	44.00	
	1.6s	601.00nm			6.2mb					i	46	25.40							i	47	00.00	
		i	42	44.70			ARV	87.99	46	P	42	54.20	-0.9						i	48	20.00	
OGA	85.95	43	eP	42	45.20	-0.3	TRI	88.05	44	ePc	42	54.70	-0.6						i	55	10.00	
	1.4s	407.00nm			6.1mb					e	43	43.00							i	56	56.00	
SOTA	86.00	43	iPc	42	44.70	-0.9				e	54	50.00							i	58	05.00	
	1.4s	403.00nm			6.1mb		MNS	88.05	47	P	42	54.60	-0.9			FNA	94.76	47	iPd	43	26.00	-0.6
		i	42	45.50			SMY	88.11	323	P	42	56.00	0.6			VLS	95.00	50	eP	43	27.50	-0.2
		i	43	22.50			CIO	88.20	46	eP	42	54.65	-1.6			KZN	95.20	47	iPc	43	28.90	0.3
		i	43	33.30			KSP	88.41	39	ePc	42	56.40	-0.5			COZ	95.26	42	eP	43	33.50	4.6X
		i	43	36.50				1.4s	197.00nm			5.8mb				VAY	95.44	46	iP	43	29.80	0.2
		i	46	01.10						i	42	57.50					1 4s	81.00nm			5.8mb	
		i	46	06.50						i	43	47.40				GRG	95.44	47	iPd	43	29.48	-0.2
BRN	86.16	37	iPc	42	47.70	1.7				e	46	23.50				VTS	95.46	45	iP	43	29.00	-0.9
			epP	43	36.50	198kmX	AOI	88.45	46	eP	42	55.70	-1.6			KKB	95.62	46	eP	43	41.00	10.6X

KNT	95.73	46	iPd	43	30.88	0.0
CMP	95.74	42	ePc	43	32.00	1.1
LIT	95.79	47	iPd	43	29.52	-1.7
AGG	96.03	49	iPd	43	33.00	0.7
PGB	96.14	45	eP	43	33.00	0.2
MMB	96.17	46	ePd	43	24.00	-8.9X
SOH	96.17	47	iPd	43	32.00	-0.9
SRS	96.23	46	iPd	43	33.76	0.6
MLR	96.25	41	ePd	43	41.50	8.2X
CVO	96.27	41	eP	43	43.00	9.7X
VRI	96.61	41	ePc	43	44.00	9.2X
PVL	96.69	44	iPd	43	35.00	-0.2
BUC	96.76	42	iPc	43	40.00	4.6X
ISR	96.77	42	eP	43	45.50	9.9X
RZN	96.82	45	iPd	43	35.00	-1.1
DIM	97.26	45	eP	43	39.00	1.2
KDZ	97.33	45	ePc	43	37.00	-1.1
RDO	97.60	46	eP	43	39.00	-0.3
CFR	97.80	41	eP	43	48.00	7.9X
JMB	97.83	44	eP	43	40.00	-0.3
PSN	98.43	43	eP	43	43.00	0.0
IZM	99.86	48	eP	43	45.00	-4.7X
KCT	99.92	46	eP	43	43.00	-6.9X
ITU	100.03	45	ePdiff	43	48.00	-2.3X
DST	100.37	46	ePdiff	43	51.00	-0.9
YLV	100.50	45	ePdiff	43	49.00	-3.5X
SPA	100.87	180	iPdiff	43	55.10	1.5
	1.2s	61.97nm			6.0mb	
BCAO	102.04	83	iPdiff	43	59.80	-0.1
	1.0s	90.00nm			6.4mb	
			i	47	10.90	
			i	48	10.50	
BBTK	103.16	45	iPdiff	44	12.00	7.6X
			e	46	57.00	
HLW	106.28	54	ePKP	48	45.00	15.9X
DZM	111.46	251	iPKPd	48	40.00	0.8
PRY	114.52	115	iPKPd	48	50.00	4.9X
	1.0s	15.00nm				
BUL	115.39	107	iPKPd	48	46.30	-0.6
	1.0s	7.00nm				
			i	49	47.90	
MAT	117.91	322	(PKP)	48	50.00	-1.1
	0.9s	7.56nm				
CN2	119.03	335	ePKP	48	57.40	4.4X
	Z 16s	1.80um			5.8MszX	
SNY	121.43	336	PKPc	48	51.60	-6.0X
	Z 26s	1.00um			5.3MszX	
BRS	123.82	244	iPKPc	49	03.50	0.8
TAU	124.93	225	iPKPc	49	04.90	0.6
WMQ	125.06	7	PKP	49	03.50	-1.2
	Z 25s	1.90um			5.7MszX	
			PP	50	52.00	
CNB	125.49	234	iPKPc	49	06.60	0.8
	0.8s	159.00nm				
BJI	125.73	340	ePKPc	49	04.41	-1.6
	6.0s	460.00nm				
	Z 20s	1.19um			5.6Msz	
			ePP	50	58.00	
HHC	126.34	345	PKP	49	06.00	-1.3
	9.0s	900.00nm				
			PP	51	03.00	
KSH	126.72	19	PKP	49	08.00	-0.1
BTO	126.96	346	PKP	49	08.00	-0.5
			PP	51	05.00	
RMQ	127.48	245	ePKPd	49	09.00	-0.8
			i	49	10.30	
			e	02	27.00	
TOO	127.93	231	ePKP	49	10.00	-0.4
	0.7s	142.00nm				
			e	52	10.00	
TIA	128.81	337	ePKP	49	11.40	-0.6
TIY	129.03	343	PKPc	49	12.00	-0.5
	Z 22s	1.30um			5.6Msz	
	N 14s	0.60um				
			PP	51	20.00	
CMS	129.20	238	iPKPc	49	12.80	-0.1
	0.9s	74.00nm				
GTA	129.74	356	PKP	49	12.00	-1.9
	8.0s	710.00nm				
	Z 20s	1.80um			5.8Msz	
	N 20s	2.60um				
BFD	130.29	230	ePKPd	49	14.40	-0.4
	1.0s	154.00nm				
			iPcP	52	18.50	
OUE	130.81	33	iPKPc	49	16.00	-0.2
			e	51	17.10	
SSE	131.41	330	PKPc	49	16.00	-1.1
NJ2	131.70	333	PKPc	49	17.00	-0.6
			PP	51	45.00	
			PKS	52	44.00	
LZH	132.55	351	ePKPc	49	19.18	-0.2
	6.0s	360.00nm				
	Z 20s	1.21um			5.6Msz	
	N 20s	1.61um				
			PKS	52	50.00	
			SKKS	58	12.00	
ADE	133.96	232	ePKP	49	22.00	0.1
	1.1s	124.05nm				
WHN	134.90	337	ePKP	49	22.50	-1.2
			PP	51	59.00	
QIS	136.48	252	ePKPd	49	15.50	-11.5X
			i	49	27.00	
NDI	136.88	24	ePKP	49	14.50	-13.1X
GKN	139.92	15	PKP	49	25.40	-8.0X
KKN	140.28	14	PKP	49	26.00	-8.1X
GUN	140.30	13	PKP	49	26.20	-8.1X
DMN	140.41	14	PKP	49	26.40	-8.0X
PKI	140.52	14	PKP	49	26.20	-8.5X
GYA	141.24	344	iPKP	49	30.00	-5.7X
CVP	141.36	317	ePKP	49	31.00	-4.9X
WB2	141.45	252	iPKPc	49	29.30	-6.8X
	0.5s	155.60nm				
WRA	141.46	252	PKP	49	29.00	-7.1X
	0.7s	119.40nm				
GZH	141.88	333	ePKP	49	30.00	-6.7X
	8.0s	2300.00nm				
			PP	52	43.00	
HKC	142.16	331	ePKP	49	34.00	-3.2X
BAG	143.11	317	ePKP	49	32.00	-7.2X
	1.5s	272.22nm				
KMI	143.44	349	ePKPc	49	34.96	-4.7X
			eSKP	52	55.41	
KMI	143.44	349	PKP	49	49.00	9.3X
			pPKP	50	15.00	
POO	143.83	36	iPKPc	49	36.20	-4.1X
	1.0s	155.00nm				
MAP	144.56	306	iPKPd	49	30.00	-11.5X
	1.0s	28.00nm				
MTN	144.97	263	iPKPc	49	41.90	-0.3
	0.4s	208.00nm				
DAV	145.00	299	ePKP	49	42.10	-0.2
CGP	145.03	302	iPKPc	49	42.60	0.3
	1.0s	12.10nm				
AAI	146.67	280	ePKP	49	45.00	-0.1
WARB	146.82	238	iPKPd	49	45.30	0.3
	0.6s	113.00nm				
QIZ	146.98	334	PKPc	49	46.00	0.6
			pPKP	50	39.00	
			PP	53	15.50	
KNA	147.17	258	iPKP	49	49.00	3.2X
HYB	147.29	31	iPKPc	49	45.00	-1.0
	1.0s	320.00nm				
			i	50	36.00	
COOL	148.93	226	ePKP	49	51.00	2.7X
PPR	148.96	311	ePKPc	49	51.00	2.3X
	1.0s	12.00nm				
RKG	149.64	217	iPKPd	49	49.30	0.1
GBA	149.82	37	PKPc	49	47.50	-2.4X
	1.2s	67.50nm				
CHG	150.23	353	ePKPc	49	50.20	-0.3
	1.4s	250.00nm				
CHTO	150.23	353	iPKPc	49	49.17	-1.3
NWAO	150.28	219	ePKP	49	49.50	-0.7
			i	49	54.80	
KLB	150.82	222	ePKP	49	50.00	-1.1
			i	49	56.00	
LOE	151.14	347	ePKP	49	52.00	0.1
MUN	151.56	219	ePKP	49	51.40	-0.7
	1.2s	8.00nm				
BDT	151.77	353	ePKP	49	49.00	-3.8X
	1.1s	265.50nm				
BAL	152.15	222	ePKP	49	53.00	0.0
			i	50	00.00	
TSM	152.84	303	ePKPd	49	55.00	0.6
NST	153.14	350	ePKP	49	57.00	2.3X
MEKA	153.16	231	ePKP	49	54.00	-0.6
KHT	154.24	353	iPKPc	49	56.40	0.1
MBL	154.42	244	ePKP	49	55.00	-1.4
MKS	155.48	281	e(PKP)	50	09.00	11.0X
NNT	156.23	349	ePKP	50	01.00	2.0
NANU	157.53	236	ePKP	50	01.00	0.6
IPM	163.59	340	ePKPd	50	06.20	-0.8
	1.0s	60.90nm				
			e	50	58.00	

KGM 164.89 328 ePKP 50 08.80 0.6
S.D. = 1.1 on 504 of 569 obs.

• MAR 01, 1991 17h 31m 57.12± 1.13s
7.111 S ± 9.0km 129.729 E ±17.3km
DEPTH = 133.0 ± 14.4 km
4.9mb (4 obs.)
BANDA SEA (280)

AAI	3.73	336	iP	32	54.50	0.4
MTN	5.86	167	eP	33	23.90	0.9
KNA	8.64	186	iPc	33	59.70	-0.8
	0.8s	473.00nm			6.2mb	X
			eS	35	30.00	
WRA	13.52	161	iPc	35	03.00	-1.7
	0.2s	46.10nm			5.5mb	X
			eS	37	25.50	
WB2	13.52	161	iPc	35	03.00	-1.8
	0.2s	46.10nm			5.5mb	X
			eS	37	25.50	
QIS	16.44	145	iPd	35	43.00	1.6
			iS	38	33.70	
MBL	16.93	213	eP	35	47.00	-0.5
			eS	38	44.00	
ASPA	16.94	167	iPd	35	49.00	1.3
	0.3s	55.80nm			5.3mb	X
			eS	38	48.00	
WARB	19.19	188	iPc	36	20.00	6.8X
	0.5s	24.00nm			4.8mb	
NANU	20.57	220	iPd	36	29.00	1.8
			eS	40	13.00	
CHTO	39.81	311	eP	39	18.70	-0.3
	1.0s	12.50nm			4.6mb	
GUN	54.82	311	P	41	16.00	-0.2
	0.5s	11.00nm			5.0mb	
PKI	54.99	311	P	41	17.40	0.0
KKN	55.21	311	P	41	18.60	-0.2
DMN	55.24	311	P	41	19.40	0.3
GKN	55.80	311	P	41	22.40	-0.6
	0.4s	10.00nm			5.1mb	

S.D. = 1.2 on 15 of 16 obs.

MAR 01, 1991 19h 20m 36.62± 0.69s
40.261 N ± 7.9km 25.248 E ± 7.3km
DEPTH = 14.4 ± 6.2 km
AEGEAN SEA (365)

RDO	0.91	14	ePb	20	55.00	1.4
EZN	0.93	117	ePg	20	54.70	0.7
			eSg	21	09.20	
PAIG	1.25	255	ePc	20	59.42	0.1
PRK	1.28	142	ePb	21	01.00	1.0
			eSg	21	21.00	
KDZ	1.39	5	eP	21	01.00	-0.5
RZN	1.48	344	iPc	21	04.00	1.1
SRS	1.52	305	ePd	21	03.00	-0.3
SOH	1.55	292	ePd	21	06.00	2.2
MMB	1.76	320	ePc	21	10.00	3.2X
DIM	1.80	7	eP	21	30.00	22.6X
KNT	2.00	298	iPc	21	09.78	-0.5
KKB	2.29	315	iP	21	19.00	4.5X
VAY	2.29	298	ePn	21	20.00	5.5X
PGB	2.43	341	eP	21	22.00	5.6X
DMK	2.46	50	ePn	21	22.00	5.2X
DST	2.68	103	ePg	21	19.00	-1.1
VTS	2.79	327	eP	21	31.00	9.3X
PVL	2.95	1	eP	21	30.00	6.2X

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

• MAR 01, 1991 19h 30m 54.12± 1.28s
33.330 S ± 8.8km 179.727 E ±21.3km
DEPTH = 33.0km (normal)
5.1mb (5 obs.)
SOUTH OF KERMADEC ISLANDS (179)

HBZ	4.42	195	eP	32	03.70	3.2X
PUZ	4.88	194	eP	32	09.00	1.9
			eS	33	12.80	
NOZ	5.45	194	eP	32	17.30	2.2
WLZ	5.62	216	eP	32	26.70	9.1X
NGZ	6.72	209	eP	32	37.50	4.3X
CNZ	6.76	209	P	32	39.00	5.3X
MNG	8.03	204	eP	32	52.00	0.7
			eS	34	27.10	
KIW	8.44	206	eP	32	55.80	-1.3
BLW	8.71	202	eP	33	02.30	1.6
MRW	8.84	205	eP	33	01.60	-1.0

01d 19h

		eS	34 46.40			
TCW	8.99	207 eP	33 03.00	-1.5		
THZ	10.01	211 P	33 18.40	-0.3		
KHZ	10.30	207 eP	33 21.20	-1.4		
		eS	35 20.20			
ASPA	41.13	271 iPc	38 38.20	1.3		
	0.5s	17.20nm		5.0mb		
WB2	42.38	277 iPd	38 47.60	0.5		
	0.3s	34.70nm		5.6mb		
WRA	42.39	277 P	38 47.00	-0.2		
	0.3s	25.50nm		5.4mb		
WARB	46.22	264 eP	39 18.00	0.0		
MBL	53.97	267 iPd	40 16.60	-0.6		
SPA	56.85	180 iPc	40 35.60	-2.2		
	0.9s	10.00nm		4.8mb		
CHTO	92.77	291 e(P)	44 05.00	0.4		
	1.0s	2.50nm		4.6mb		
AKU	145.87	13 iPKPd	50 22.70	-7.4X		
	0.8s	26.87nm				
BCAO	146.32	215 iPKPc	50 28.00	-4.5X		
	0.5s	18.00nm				
		i	50 49.20			
KAF	146.59	338 ePKP	50 24.00	-7.4X		
NUR	148.31	337 ePKP	50 30.00	-4.2X		
	0.8s	19.10nm				
		e	50 43.00			
PRNI	149.97	274 ePKP	50 37.00	-0.7		
UPP	150.95	341 iPKP	50 55.70	17.5X		
NAO	151.56	349 PKP	50 36.80	-2.3X		
	0.8s	6.40nm				
HFS	151.65	345 ePKP	50 36.00	-3.3X		
	0.4s	1.70nm				
KIC	152.85	170 PKP	50 43.20	0.8		
	S.D. = 1.3	on 18 of 29 obs.				

MAR 01, 1991 21h 08m 20.53± 1.20s
2.486 N ± 5.4km 126.809 E ± 9.3km
DEPTH = 69.0 ± 11.8 km
5.1mb (13 obs.)
MOLUCCA PASSAGE (266)

DAV	4.73	345 eP	09 30.10	-1.0		
AAI	6.29	167 eP	10 00.00	7.3X		
CGP	6.29	341 eP	10 07.00	14.2X		
MAP	8.28	340 eP	10 19.00	-1.2		
TSM	8.89	281 eP	10 31.00	2.3		
KKM	11.14	289 ePc	11 01.00	1.6		
BAG	15.13	336 eP	11 54.00	2.0		
MTN	15.83	164 eP	11 59.00	-1.6		
	0.3s	123.00nm		5.5mb		
KNA	18.22	174 eP	12 28.00	-2.4		
QIZ	23.37	316 eP	13 24.90	1.1		
WRA	23.49	162 iPd	13 25.20	0.2		
	0.2s	69.00nm		5.7mb		
		eS	17 38.40			
WB2	23.49	162 iPd	13 25.20	0.2		
	0.2s	69.00nm		5.7mb		
		eS	17 38.40			
MBL	24.47	196 eP	13 35.50	1.0		
QIS	26.11	152 eP	13 50.00	0.1		
	0.3s	28.00nm		5.3mb		
ASPA	26.90	166 iPd	13 56.60	-0.5		
	0.3s	23.80nm		5.2mb		
		iS	18 42.20			
NANU	27.22	203 eP	14 00.00	0.0		
WARB	28.50	180 iPc	14 13.60	2.1		
NNT	28.62	292 eP	14 08.00	-4.7X		
NJ2	30.35	347 eP	14 27.00	-0.9		
KHT	30.40	295 eP	14 28.20	-0.4		
BDT	31.00	300 eP	14 30.50	-3.3X		
CHG	31.74	303 ePc	14 39.60	-0.8		
	0.9s	9.87nm		4.6mb		
CHTO	31.74	303 iPc	14 39.30	-1.1		
	0.8s	8.60nm		4.6mb		
FORR	33.17	178 iPc	14 52.80	0.2		
MAT	35.49	16 (P)	15 12.00	-0.5		
	1.0s	10.00nm		4.7mb		
XAN	35.56	334 P	15 11.70	-1.4		
TIY	37.46	341 eP	15 28.50	-0.6		
Z	15s	0.80um		4.6MszX		
BJI	38.61	347 eP	15 39.00	0.4		
	1.3s	56.00nm		5.3mb		
BRS	38.84	142 iP	15 42.00	1.2		
ADE	38.89	164 e(P)	15 41.50	0.3		
SNY	39.27	356 eP	15 45.00	0.9		
	0.8s	20.00nm		5.1mb		
LZH	39.61	330 eP	15 44.00	-3.2X		
	2.0s	71.00nm		5.2mb		
Z	30s	0.57um		4.2MszX		
		sP	16 03.50			
HHC	40.60	342 eP	15 56.10	0.9		
CN2	41.16	359 eP	16 02.80	3.2X		
MDJ	42.03	3 eP	16 08.50	1.8		
LSA	43.32	312 P	16 18.60	0.5		
GTA	44.20	330 eP	16 24.40	-0.2		
	0.6s	10.00nm		4.8mb		
GUN	46.52	307 P	16 42.60	-1.0		
PKI	46.76	306 P	16 44.80	-0.6		
KKN	46.95	307 P	16 46.00	-0.8		
DMN	47.02	306 P	16 46.50	-0.9		
GKN	47.56	306 P	16 50.20	-1.3		
HYB	49.62	291 eP	17 06.00	-1.4		
GBA	50.01	286 Pd	17 08.80	-1.5		
	0.8s	5.30nm		4.6mb		
WMQ	53.78	326 eP	17 37.50	-0.8		
QUE	62.88	303 eP	18 42.00	-0.1		
TAB	80.98	308 eP	20 31.00	1.5		
PRNI	90.32	300 eP	21 17.00	1.3		
INK	91.28	22 eP	21 20.50	1.2		
YKA	100.59	25 ePdiff	22 20.50	18.8X		
	0.7s	0.20nm				
ZOBO	159.91	134 ePKP	28 20.00	5.7X		
	S.D. = 1.2	on 43 of 51 obs.				

MAR 01, 1991 21h 30m 20.30± 0.71s
42.085 N ± 6.1km 21.679 E ± 7.0km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 3.0 (SKO). MD 3.3 (THE).

SKO	0.21	238 iPgc	30 23.60	-1.3		
	0.2s	297.00nm				
		iSg	30 28.40			
		Lg	30 29.50			
VAY	1.01	139 iPg	30 40.30	0.8		
		iSg	30 57.80			
		Lg	31 01.30			
KKB	1.07	101 eP	30 39.00	-1.4		
OHR	1.18	214 iPg	30 41.40	-0.9		
		iSg	30 59.30			
		Lg	31 00.50			
VTS	1.24	65 iPgd	30 40.00	-3.5X		
GRG	1.25	154 eP	30 44.52	0.9		
KNT	1.30	135 iPd	30 44.65	0.3		
FNA	1.32	190 iPc	30 45.00	0.3		
		eS	31 02.00			
MMB	1.61	107 eP	30 51.00	2.1		
SRS	1.73	123 eP	30 53.10	2.5X		
		eS	31 19.10			
SOH	1.78	135 eP	30 55.20	3.8X		
PGB	1.90	75 eP	30 51.00	-2.2		
LIT	2.07	163 eP	30 56.70	1.1		
PLD	2.25	88 eP	31 03.00	4.9X		
RZN	2.30	99 iP	30 57.00	-2.1		
KDZ	2.83	98 eP	31 13.00	6.7X		
BEO	2.88	342 e(Pn)	31 07.00	0.0		
PVL	2.92	66 eP	31 10.00	2.3X		
GZR	3.40	13 eP	31 15.00	0.5		
BZS	3.53	359 ePc	31 18.00	1.7		
	S.D. = 1.5	on 14 of 20 obs.				

% MAR 01, 1991 21h 48m 29.81± 1.05s
37.589 N ± 7.7km 2.547 W ± 9.5km
DEPTH = 10.0km (geophysicist)
SPAIN (377)
mbLg 2.3 (MDD).

ENIJ	0.67	157 iP	48 42.80	-0.4		
		eS	48 53.00			
AFC	0.86	247 eP	48 47.00	0.5		
ECOG	0.87	249 eP	48 47.00	0.4		
EVIA	1.05	2 iP	48 50.20	0.6		
		eS	49 04.60			
EBAN	1.14	301 iP	48 50.00	-1.1		
		eS	49 04.50			
	S.D. = 1.6	on 5 of 5 obs.				

% MAR 01, 1991 22h 51m 29.71± 0.74s
16.263 N ±10.9km 61.352 W ± 9.1km
DEPTH = 33.0km (normol)
LEEWARD ISLANDS (92)
ML 2.1 (FDF).

SFG	0.15	93 eP	51 35.59	-0.2		
SEG	0.20	313 ePc	51 36.69	0.4		
		S	51 40.10			
DEG	0.28	80 ePc	51 37.27	-0.1		
		S	51 41.70			
DOG	0.34	228 ePd	51 37.77	-0.3		
		S	51 41.80			
PAG	0.39	234 eP	51 38.40	-0.4		
		S	51 43.40			
BBL	0.75	189 eP	51 44.40	0.6		
		S	51 53.80			
	S.D. = 0.5	on 6 of 6 obs.				

MAR 01, 1991 23h 06m 36.73± 0.21s
40.305 N ± 3.7km 142.264 E ± 4.4km
DEPTH = 52.8km (10 depth phases)
5.2mb (57 obs.)
NEAR EAST COAST OF HONSHU, JAPAN(228)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 24C
Centroid Location:
Origin Time 23:06:43.1 1.0
Lat 39.94N 0.10 Lon 141.89E 0.09
Dep 53.0 6.8 Half-duration 1.5
Moment Tensor; Scale 10**16 Nm
Mrr= 4.67 0.62 Mtt= 1.25 1.17
Mff=-5.91 0.75 Mrt= 0.62 0.86
Mrf= 4.43 1.08 Mtf=-5.22 0.69
Principal Axes:
T Val= 6.68 Plg=58 Azm=234
N 3.21 27 17
P -9.89 16 116
Best Double Couple:Mo=8.3*10**16
NP1:Strike=239 Dip=37 Slip= 138
NP2: 5 66 60

OFUJ	1.31	201 iPd	06 58.50	-0.4		
		eS	07 16.40			
AOMJ	1.47	281 P	07 02.30	1.1		
HOOJ	2.21	20 eP	07 11.70	0.0		
		eS	07 38.40			
MRRJ	2.30	337 eP	07 12.20	-0.7		
		eS	07 40.60			
YAMJ	2.74	220 P	07 20.20	1.0		
KUSJ	3.34	32 eP	07 25.10	-2.5		
		eS	08 01.60			
ASAJ	3.82	4 P	07 33.70	-0.7		
		eS	08 21.90			
NIIJ	3.98	221 eP	07 36.80	0.1		
KAKJ	4.41	203 P	07 40.60	-2.1		
		S	08 30.20			
MAT	4.92	222 iPc	07 50.70	0.6		
	0.7s	294.52nm				
		eS	08 51.00			
CHJJ	4.97	212 P	07 50.30	-0.4		
MTMJ	5.10	225 P	07 54.50	1.8		
IIDJ	5.92	217 P	08 05.10	1.1		
TSRJ	6.88	228 P	08 19.40	2.0		
WKYJ	8.07	223 eP	08 34.30	0.3		
YONJ	8.64	237 P	08 43.00	1.2		
TKSJ	9.10	229 eP	08 48.10	0.0		
SSE	19.39	248 Pc	11 01.00	-0.1		
	1.0s	74.00nm		4.9mb		
Z	20s	0.90um				
		sP	11 16.00			
		eS	14 43.00			
BJI	19.92	278 eP	11 03.00	-3.7X		
	1.0s	62.00nm		4.9mb		
Z	20s	1.43um				
		e	11 18.00			
LZH	30.33	274 eP	12 43.50	-2.0		
	1.0s	53.00nm		5.2mb		
Z	25s	1.04um		4.4MszX		
		pP	12 51.50	28kmX		
		PP	13 10.00			
		i	13 48.00			
		i	14 02.50			
KMI	36.22	258 Pd	13 35.00	-1.6		
Z	18s	1.20um		4.7Msz		
		S	19 05.00			
		sS	19 45.00			
CHG	42.81	253 ePc	14 30.90	-0.2		
	0.9s	19.33nm		4.8mb		
CHTO	42.81	253 iPc	14 31.10	0.0		
	0.8s	8.97nm		4.6mb		
		pP	14 37.60	22kmX		
PDB	43.27	41 P	14 35.50	1.2		

PCT	43.77	246	eP	14	39.00	0.2	CVO	76.97	320	eP	18	35.00	9.7X	AGG	83.87	317	ePd	19	01.00	-1.0
BDT	43.78	251	eP	14	36.40	-2.5	ISR	77.28	319	eP	18	36.50	9.6X	ECP	83.94	341	eP	19	18.40	16.4X
NST	44.00	248	eP	14	42.90	2.2	SPC	77.28	325	eP	18	27.20	0.2	IGT	84.51	319	ePd	19	04.93	-0.2
PMR	45.63	39	ePc	14	53.30	0.1	MLR	77.32	320	eP	18	36.00	8.7X	VAI	84.66	329	P	19	05.40	-0.3
KHT	45.70	249	eP	14	51.70	-2.6	KSP	77.67	328	eP	18	29.00	0.1	MMK	84.81	330	ePc	19	07.90	1.1
FBA	46.00	34	P	14	56.00	-0.1				e	18	44.00		ARV	84.88	326	P	19	07.80	0.9
	0.8s	35.34nm			5.3mb		COZ	78.23	320	iPc	18	42.50	10.2X	DIX	85.00	330	ePc	19	08.70	0.9
NNT	46.39	246	eP	15	00.00	0.3	BRG	78.58	330	eP	18	34.50	0.6	SFI	85.00	326	P	19	08.10	0.6
TOA	46.97	38	P	15	03.00	-0.9		0.8s	20.00nm			5.1mb		PGD	85.09	327	P	19	09.40	1.2
KLU	47.17	38	P	15	05.00	-0.5				i	18	51.30		EMS	85.19	331	ePd	19	08.90	0.2
GUN	47.57	273	P	15	08.90	-0.5	CLL	78.59	330	eP	18	33.00	-1.0	CRE	85.20	326	P	19	09.00	0.4
KKN	48.09	273	P	15	12.90	-0.4		0.9s	21.00nm			5.1mb		MME	85.26	327	P	19	09.80	0.7
PKI	48.10	273	P	15	12.90	-0.6				e	18	51.00		LOR	85.28	333	eP	19	08.80	-0.1
DMN	48.31	273	P	15	14.80	-0.3	PRU	79.04	329	P	18	36.70	0.2		0.9s	27.05nm			5.4mb	
	1.0s	89.00nm			5.7mb			1.0s	16.00nm			4.9mb		FLN	85.39	336	eP	19	09.50	0.1
GKN	48.47	274	P	15	15.30	-0.9	Z	18s	0.80um			5.1Msz		LDF	85.43	336	eP	19	09.50	-0.1
INK	51.19	28	eP	15	36.00	-0.2				e	18	51.50		LBF	85.48	333	eP	19	10.00	0.1
	0.6s	15.00nm			5.2mb					e	18	56.30			0.9s	19.65nm			5.3mb	
IPM	51.36	237	ePd	15	36.80	-1.4	BUD	79.10	325	e(P)	18	37.00	0.2	SSF	85.58	333	eP	19	10.60	0.2
MBC	53.21	17	eP	15	51.00	-0.2	SRO	79.16	325	iP	18	37.30	0.2		0.8s	17.45nm			5.3mb	
	1.0s	15.00nm			5.0mb		GOL	79.31	47	P	18	39.50	1.0	LPL	85.73	330	eP	19	11.70	0.3
NDI	53.76	279	iPc	15	55.00	-0.9				pP	18	54.50	53km		0.9s	23.75nm			5.4mb	
HYB	59.00	267	eP	16	32.00	-1.5	ZST	79.39	326	eP	18	38.80	0.5	LPG	85.74	330	eP	19	11.80	0.2
	1.0s	35.00nm			5.4mb		WIT	79.61	334	eP	18	41.00	1.6		0.8s	20.15nm			5.4mb	
WRA	60.39	189	P	16	40.00	-2.8X				e	19	01.50		SMF	85.82	333	eP	19	11.80	0.2
	0.7s	13.50nm			5.2mb		MOX	79.65	331	eP	18	40.00	0.3		0.9s	14.75nm			5.2mb	
KEV	60.63	339	iP	16	43.10	-0.9	UZD	79.97	324	e(P)	18	42.00	0.5	GRR	85.84	336	eP	19	11.80	0.2
	0.8s	36.70nm			5.6mb		KHC	80.11	329	iPd	18	43.30	1.1		1.1s	22.00nm			5.3mb	
QUE	60.64	286	eP	16	43.70	-1.1		1.0s	11.00nm			4.7mb		AVF	85.87	333	eP	19	12.00	0.2
YKA	60.66	31	eP	16	42.90	-1.3				e	19	02.60			0.8s	42.30nm			5.7mb	
	0.6s	3.70nm			4.7mb		HRI	80.24	305	eP	18	43.00	-0.3	BNI	86.14	330	P	19	13.80	0.4
GBA	62.17	264	Pc	16	53.30	-1.7	WTS	80.25	334	eP	18	44.00	1.2	LPF	86.21	336	eP	19	13.90	0.4
	0.5s	8.70nm			5.1mb			0.8s	16.00nm			5.0mb			1.0s	22.00nm			5.3mb	
SOD	62.22	337	iP	16	53.50	-1.2				i	19	03.00		BGF	86.24	333	eP	19	13.70	0.0
DAG	62.59	355	iPd	16	55.80	-1.2	EKA	80.27	341	Pc	18	43.70	0.7		0.9s	10.65nm			5.1mb	
	0.8s	23.88nm			5.4mb			0.7s	8.00nm			4.8mb		MAF	86.63	333	eP	19	16.10	0.5
ASPA	64.12	189	eP	17	05.80	-1.8	WET	80.37	329	eP	18	44.50	0.9		0.9s	31.95nm			5.5mb	
	0.8s	12.20nm			5.0mb		GRF	80.57	330	ePc	18	45.40	0.7	TCF	86.70	334	eP	19	16.20	0.3
KOD	64.26	261	eP	17	08.30	-0.9	Z	22s	0.30um			4.6Msz			0.9s	9.85nm			5.0mb	
PNT	65.39	45	eP	17	16.00	0.3				e	18	49.60		LSF	86.96	334	eP	19	17.60	0.4
KAF	65.72	332	iP	17	16.20	-1.3				e	19	00.40			0.9s	36.05nm			5.6mb	
	0.7s	13.30nm			5.1mb					i	19	05.10		MFF	87.20	335	eP	19	18.90	0.6
DZM	66.02	155	iPc	17	24.70	4.7X	BHG	81.51	328	iPd	18	50.70	1.1		0.9s	26.20nm			5.5mb	
NUR	67.39	332	eP	17	25.00	-3.2X	ENN	81.58	334	eP	18	50.50	0.6	SOI	87.76	320	Pd	19	20.80	-0.3
	1.0s	24.00nm			5.2mb			0.8s	17.00nm			5.1mb					eSg	19	35.00	
		e	17	45.00						e	19	09.50		RJF	87.79	333	eP	19	21.90	0.7
LBFM	68.57	54	P	17	37.00	0.8	DSI	81.60	304	eP	18	50.00	-0.3		1.0s	16.00nm			5.2mb	
WDC	68.61	55	iPc	17	51.30	15.1X	SRS	81.67	318	ePd	18	50.84	0.3	CAF	87.93	333	eP	19	22.90	1.0
SES	69.24	41	eP	17	39.00	-0.9	KBA	81.84	328	eP	18	52.00	0.5		0.9s	15.55nm			5.2mb	
		pP	17	55.00	58km			0.8s	32.10nm			5.4mb		GAC	87.95	25	eP	19	22.00	0.1
ORV	69.85	55	ePc	17	58.30	14.5X				i	18	54.10			1.0s	6.00nm			4.8mb	
UPP	70.31	334	iP	17	40.50	-5.7X				i	19	08.70				pP		19	38.00	56km
BKS	70.37	57	eP	18	01.50	14.5X				i	19	13.10		LFF	88.37	334	eP	19	24.90	0.9
FFC	70.61	34	iPc	17	47.30	-0.8	ANMO	81.99	51	P	18	53.00	0.4		1.0s	16.00nm			5.2mb	
	0.8s	30.00nm			5.3mb			1.2s	117.19nm			5.8mb		OLY	89.81	41	P	19	31.00	0.1
LRM	71.36	45	eP	17	53.20	0.0				pP	19	09.50	59km				pP	19	46.00	51km
		e	18	09.20			ALO	81.99	51	eP	18	53.10	0.5	EPF	90.19	333	eP	19	32.50	-0.2
HFS	71.39	336	eP	17	51.50	-1.2		1.2s	32.81nm			5.2mb			0.8s	4.70nm			4.9mb	
	0.6s	25.60nm			5.3mb					epP	19	09.00	56km	SLR	123.96	263	iPKPc	25	29.00	-1.9
Z	17s	0.40um			4.7MszX		KNT	81.99	318	ePc	18	52.32	0.1	ZOBO	144.39	57	PKP	26	08.30	-1.3
		LR	44	24.00			SOH	82.01	318	ePd	18	53.00	0.6		1.0s	10.00nm				
CMB	71.45	56	P	17	54.50	0.9	SCH	82.04	16	eP	18	52.00	-0.3	Z	24s	0.08um			4.4MszX	
	1.0s	18.33nm			5.0mb		VAY	82.04	319	iP	18	53.20	0.7			LR	15	40.00		
		pP	18	09.00	51km		SKO	82.12	320	iP	18	53.50	0.6			i	26	23.00		
NAO	71.72	337	P	17	53.50	-1.2	WATA	82.35	329	iPc	18	54.30	0.1	SIV	148.40	47	PKP	26	16.00	0.5
	0.8s	29.70nm			5.3mb			0.8s	20.10nm			5.2mb		SOB1	148.91	6	ePKP	26	20.40	4.0X
PRS	71.84	58	eP	18	11.50	15.6X				id	18	54.70					e	26	34.20	
LLA	71.95	57	eP	18	12.00	15.5X				i	19	14.20		PDCR	152.31	3	ePKP	26	21.50	0.1
KVN	72.27	54	P	17	59.50	0.9	THE	82.35	318	ePc	18	50.24	-3.8X				e	26	28.10	
		pP	18	12.50	45km		GRG	82.40	318	ePd	18	54.25	-0.1	BAO	153.85	23	e(PKP)	26	23.00	-0.7
FRI	72.51	56	ePc	18	14.70	14.9X	FVI	82.46	328	P	18	56.00	1.5		S.D. = 0.9		on 150 of 174 obs.			
TNP	73.41	54	P	18	06.00	0.7	DOU	82.60	334	P	18	37.40	-17.8X	---						
		pP	18	20.00	49km		PRNI	82.67	304	eP	18	56.00	0.0	•	MAR 02, 1991 00h 35m 10.90± 1.09s					
FRB	73.44	14	ePc	18	02.70	-2.0	LIT	82.99	318	iPd	18	57.10	-0.3		40.506 N ± 7.3km 23.600 E ±10.8km					
	0.7s	31.00nm			5.3mb		OHR	83.09	320	iP	18	57.90	-0.1		DEPTH = 10.0km (geophysicist)					
ISA	74.11	57	eP	18	23.00	13.8X		0.9s	72.00nm			5.7mb		GREECE						(364)
CLC	74.58	56	eP	18	27.00	15.1X	CDF	83.09	332	eP	18	57.90	0.0		MD 2.5 (THE).					
SBB	75.13	57	eP	18	30.00	14.9X		1.0s	18.00nm			5.0mb								
GSC	75.40	56	eP	18	25.00	8.3X	SLE	83.18	331	ePd	18	58.90	0.6	THE	0.50	285	ePc	35	20.40	-0.6
RVR	75.86	57	eP	18	34.00	14.8X	FEL	83.27	331	eP	18	59.11	0.2	PAIG	0.58	174	iPc	35	22.65	0.0
MSU	76.20	51	P	18	22.50	1.2	CTI	83.36	328	P	18	58.90	-0.5	SRS	0.61	359	iPd	35	23.17	-0.1
		pP	18	37.00	51km		OSS	83.44	329	ePd	19	00.80	0.9				eS	35	32.52	
VRI	76.67	320	ePd	18	24.00	0.5	LLS	83.74	330	ePd	19	02.20	0.8	KNT	0.84	321	iPd	35	26.62	-0.6
KRA	76.76	326	eP	18	23.70	-0.2	BSF	83.76	332	eP	19	00.90	-0.4				eS	35	37.72	
	0.8s	52.00nm			5.6mb		HAU	83.77	332	eP	19	01.00	-0.3	GRG	1.02	297	ePd	35	31.04	0.9
		e	18	38.80				0.8s	8.05nm			4.8mb					eS	35	43.56	
		i	18	42.30			VDL	83.87	329	ePd	19	02.50	0.4	VAY	1.13	317	ePn	35	32.40	0.4

02d 00h

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

& MAR 02, 1991 00h 40m 46.34s
43.973 N 127.145 W
DEPTH = 5.0km
OFF COAST OF OREGON (30)
<SEA>.

KMOR	3.09	56	P	41	29.09	-7.6
NLO	3.37	50	P	41	33.62	-7.1
PGO	3.66	64	P	41	37.99	-6.9
GT2	3.68	70	P	41	37.79	-7.4
BMW	3.73	47	P	41	38.21	-7.7
RVW	3.80	54	P	41	39.88	-7.0
LVP	3.96	56	P	41	42.23	-6.9
VLMM	3.96	65	P	41	41.95	-7.2
MTMW	4.06	58	P	41	43.29	-7.2
FL2	4.06	55	P	41	43.77	-6.8
CZM	4.10	51	P	41	43.82	-7.2
CPW	4.12	42	P	41	43.77	-7.5
VBEM	4.12	73	P	41	44.40	-7.1
ERK	4.12	54	P	41	44.31	-7.1
SHW	4.12	56	P	41	45.01	-6.5
HSR	4.15	56	P	41	45.16	-6.7
JLK	4.15	57	P	41	44.66	-7.2
APW	4.15	48	P	41	44.36	-7.4
STD	4.16	55	P	41	45.21	-6.7
VLL	4.17	67	P	41	45.12	-7.0
ESD	4.18	56	P	41	45.69	-6.6
CDFW	4.20	58	P	41	45.39	-7.1
SOSW	4.21	56	P	41	45.86	-6.8
APM	4.27	64	P	41	46.01	-7.5
VFP	4.27	70	P	41	46.29	-7.4
KOSW	4.29	53	P	41	46.77	-7.1
LMW	4.36	50	P	41	47.58	-7.2
GULW	4.40	62	P	41	48.08	-7.3
ASR	4.50	59	P	41	49.50	-7.3
LON	4.67	52	P	41	52.08	-7.2
GLK	4.69	55	P	41	52.37	-7.2
REMR	4.70	51	P	41	52.08	-7.6
RVC	4.70	49	P	41	52.63	-7.0
VGB	4.79	69	P	41	53.17	-7.8
WPW	4.80	53	P	41	53.73	-7.4
FMW	4.86	51	P	41	54.64	-7.4
GSM	4.95	47	P	41	56.00	-7.3
CRF	6.16	60	P	42	12.43	-7.7
RC1	6.18	59	P	42	12.77	-7.8

39 abs. associated

* MAR 02, 1991 01h 06m 21.15± 0.71s
19.199 N ± 8.4km 120.975 E ±10.3km
DEPTH = 32.2km (2 depth phases)
4.5mb (12 abs.) 3.8Msz (1 abs.)
PHILIPPINE ISLANDS REGION (248)

PIP	0.93	201	iP	06	38.00	0.1
CVP	1.69	151	iPc	06	49.20	0.4
			eS	07	09.00	
SZP	1.71	197	iPd	06	50.00	0.9
			iS	07	16.00	
TWG	3.60	1	eP	07	19.00	2.9X
PGP	5.67	180	eP	07	50.00	4.7X
HKC	7.08	297	iPc	08	04.50	-0.7
MCO	7.53	294	eP	08	10.50	-1.0
GZH	8.10	300	P	08	18.20	-1.4
QIZ	10.53	271	eP	08	50.60	-2.4
			eS	10	45.80	
GYA	15.03	301	P	09	55.00	1.8
XAN	18.27	326	P	10	36.60	2.7X
TIY	19.90	340	Pc	10	54.60	1.7
Z	20s		0.50um			
N	12s		0.20um			
CHG	20.83	273	eP	11	09.80	7.1X
CHTO	20.83	273	eP	11	04.00	1.3
	1.0s		4.25nm		3.8mb	
			pP	11	13.10	34km
BJI	21.18	350	eP	11	11.50	5.5X
	1.1s		18.00nm		4.4mb	
			eS	15	08.00	
LZH	22.60	322	eP	11	20.00	-0.4
	1.4s		27.00nm		4.5mb	
Z	18s		0.34um		3.8Msz	
			pP	11	28.50	31km
SNY	22.66	5	eP	11	27.40	6.6X
	1.0s		10.00nm		4.2mb	
BTO	23.31	339	eP	11	29.50	2.2
CN2	24.81	8	eP	11	43.50	1.8
GUN	33.23	292	P	12	59.00	1.0
	0.9s		23.00nm		5.1mb	
KKN	33.74	291	P	13	03.40	1.1
GKN	34.33	292	P	13	08.40	1.1
WRA	41.05	161	iPc	13	57.70	-5.7X
	0.6s		6.00nm		4.5mb	
			iPcP	16	01.30	
WB2	41.05	161	iPc	13	57.70	-5.7X
	0.6s		6.00nm		4.5mb	
			iPcP	16	01.30	
ASPA	44.43	163	eP	14	27.00	-4.0X
	0.5s		9.40nm		4.9mb	
INK	77.91	21	eP	18	15.50	-1.6
MBC	78.15	12	ePc	18	17.00	-1.3
	0.5s		2.00nm		4.4mb	
SLL	81.84	332	eP	18	36.50	-1.8
	0.5s		2.10nm		4.4mb	
NAO	82.79	332	P	18	41.60	-1.6
	1.1s		3.30nm		4.3mb	
YKA	87.62	23	eP	19	05.90	-1.4
	0.9s		3.30nm		4.6mb	

S.D. = 1.5 on 21 of 30 obs.

MAR 02, 1991 01h 22m 12.46± 0.45s
45.003 N ± 3.4km 6.826 E ± 4.8km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.3 (LDG), 2.2 (GEN).

RRL	0.09	200	P	22	14.04	-1.2
			S	22	14.33	
BNI	0.12	295	Pd	22	14.60	-1.0
			iSg	22	16.40	
RSP	0.34	64	P	22	20.23	0.7
			S	22	25.05	
BHB	0.35	117	P	22	19.68	0.0
			S	22	24.19	
LPG	0.50	354	Pg	22	22.70	0.1
			Sg	22	29.80	
LSD	0.51	27	P	22	23.10	0.2
			S	22	30.08	
LPL	0.52	353	Pg	22	23.00	0.0
			Sg	22	30.40	
PZZ	0.54	158	P	22	21.87	-1.5
			S	22	28.33	
STV	0.84	155	P	22	28.13	-0.6
ENR	0.88	151	P	22	28.79	-0.7
ROB	1.03	133	P	22	31.31	-0.6
ORX	1.03	52	P	22	32.02	0.0
SBF	1.22	159	Pg	22	36.20	1.0
			Sg	22	52.00	
FIN	1.27	128	P	22	35.61	-0.4
PCP	1.31	110	P	22	37.25	0.5
IMI	1.33	145	P	22	36.02	-1.1
FRF	1.45	185	Pg	22	40.20	1.5
			Sg	22	59.00	
LRG	1.58	192	Pg	22	42.20	1.6
			Sg	23	03.20	
LMR	1.68	188	Pg	22	44.00	1.9
			Sg	23	05.60	
BGF	3.19	301	Pn	23	03.00	-0.6

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

% MAR 02, 1991 02h 33m 01.78± 1.29s
61.829 N ±10.9km 5.234 E ±10.0km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 2.3 (BER).

FRO	0.18	247	ePg	33	06.35	0.5
			eSg	33	09.45	
FOO	0.25	201	ePg	33	08.00	1.0
			eSg	33	11.90	
HYA	0.81	145	iP	33	17.88	0.5
			iS	33	29.83	
SUE	0.81	197	eP	33	17.03	-0.4
			eS	33	28.02	
MOL	1.32	55	eP	33	25.98	-0.1
			eS	33	43.68	
ASK	1.35	181	eP	33	25.38	-1.2
			eS	33	42.51	
ODD1	2.04	160	eP	33	38.33	1.7
			eS	34	00.63	
KMY	2.63	180	eP	33	42.85	-2.1
			eS	34	12.11	

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

MAR 02, 1991 02h 58m 59.90± 0.19s
49.197 N ± 5.7km 151.342 E ± 4.3km
DEPTH = 304.3km (3 depth phases)
4.7mb (33 obs.)
NORTHWEST OF KURIL ISLANDS (220)

KUSJ	7.64	220	P	00	44.70	-5.0X
			eS	02	05.90	
ASAJ	7.85	233	P	00	53.50	1.2
HOOJ	8.83	223	eP	00	59.70	-4.6X
			S	02	33.70	
MRRJ	9.86	230	P	01	14.20	-2.8X
			eS	02	59.40	
AOMJ	11.61	226	eP	01	35.80	-2.8X
			eS	03	33.70	
OFUJ	12.26	218	P	01	42.40	-4.1X
			eS	03	52.10	
YAMJ	13.71	221	eP	02	00.60	-3.4X
			eS	04	22.80	
NIIJ	14.93	221	P	02	16.40	-2.2X
KAKJ	15.34	216	P	02	20.60	-2.3X
MDJ	15.54	261	iPc	02	23.50	-1.6
	1.0s		600.00nm		5.9mb X	
			pP	02	28.00	
MAT	15.86	222	iPd	02	27.10	-1.5
	0.8s		212.69nm		5.6mb	
CHJJ	15.95	219	P	02	27.80	-1.7
MTMJ	16.01	223	P	02	28.90	-1.3
IIDJ	16.89	221	P	02	38.10	-1.4
TSRJ	17.70	225	P	02	47.00	-0.9
CN2	18.58	263	Pd	02	54.30	-2.4X
	1.0s		30.00nm		4.6mb	
WKYJ	18.97	224	P	03	00.60	-0.2
YONJ	19.20	230	P	03	03.10	0.1
TKSJ	19.89	227	eP	03	09.80	0.1
SNY	20.72	260	Pd	03	18.20	0.4
	1.2s		100.00nm		5.0mb	
SHNJ	21.24	232	P	03	24.50	1.6
KUMJ	22.64	230	P	03	36.90	0.5
KAGJ	23.70	228	P	03	47.00	0.7
BJI	26.45	263	eP	04	10.00	-1.1
	1.4s		33.00nm		4.6mb	
TIA	28.04	255	eP	04	24.80	-0.6
HHC	29.05	269	Pc	04	34.80	0.4
	1.2s		80.00nm		5.1mb	
TIY	30.17	262	iPd	04	44.50	0.4
	1.0s		100.00nm		5.3mb	
TIY	30.17	262	iPc	04	44.90	0.8
BTO	30.19	269	eP	04	44.00	-0.3
PDB	32.44	50	P	05	03.00	-0.5
WHN	33.52	250	Pd	05	12.50	-0.5
	0.7s		40.00nm		5.0mb	
XAN	34.65	260	P	05	22.00	-0.5
FBA	35.03	40	P	05	26.20	0.9
	0.6s		20.32nm		4.8mb	
QZH	35.18	238	eP	05	27.50	0.5
KLU	36.25	46	P	05	36.20	0.4
LZH	36.72	267	iPd	05	41.00	0.9
	1.4s		100.00nm		5.1mb	
GTA	37.49	275	iPd	05	47.20	0.8
	1.0s		40.00nm		4.8mb	
INK	40.25	34	ePc	06	09.00	0.5
	0.5s		15.00nm		4.5mb	
MBC	42.71	21	eP	06	28.50	0.0
WMQ	42.98	288	P	06	32.00	0.9
	1.0s		30.00nm		4.5mb	
			S	12	35.00	
QIZ	44.81	243	P	06	46.90	1.2
YKA	49.69	37	eP	07	22.70	-0.1
	0.5s		5.00nm		4.1mb	
CHG	51.60	253	iPd	07	38.20	0.5
	0.9s		38.45nm		4.8mb	
CHTO	51.60	253	iPd	07	38.00	0.3
			pP	08	47.10	328kmX
NST	53.24	250	eP	07	52.00	2.3
GUN	53.66	272	P	07	53.00	-0.2
KKN	54.14	272	P	07	56.80	0.4
PKI	54.20	272	P	07	57.20	0.2
DMN	54.37	272	P	07	58.60	0.4
GKN	54.42	273	P	07	58.20	-0.1
KEV	54.64	339	eP	08	10.00	10.8X
PNT	54.70	53	eP	08	00.00	0.1
NNT	55.86	248	iPd	08	10.30	1.8
SOD	56.54	338	eP	08	12.00	-0.6
SES	58.38	48	ePc	08	25.70	-0.1
WDC	58.47	63	iPc	08	26.50	0.1
FFC	59.63	40	iPc	08	34.80	0.7

	0.7s	25.00nm			4.8mb	
ORV	59.74	63	ePc	08	34.40	-0.7
LRM	60.66	53	eP	08	41.70	0.1
KAF	60.72	334	eP	08	41.00	-0.4
CMB	61.40	64	ePc	08	46.20	0.0
KVN	62.06	62	P	08	51.00	0.2
NUR	62.49	333	eP	08	53.00	0.0
FRI	62.50	64	eP	08	53.20	-0.2
PTI	62.69	55	P	08	55.80	1.0
FRB	63.12	19	ePc	08	54.60	-2.4
	0.5s	18.00nm			5.0mb	
TNP	63.22	62	P	08	58.30	-0.1
BW06	64.26	54	P	09	04.80	-0.2
		pP		10	11.50	295km
DUG	64.28	58	P	09	05.50	0.4
DAU	64.98	57	P	09	10.20	0.4
HFS	65.74	338	ePKP	09	12.60	-1.3
	0.4s	6.60nm			4.7mb	
MSU	65.80	59	P	09	15.50	0.6
NAO	65.80	340	P	09	12.80	-1.5
	0.7s	2.50nm			4.1mb	
HYB	65.80	269	iPd	09	14.00	-0.9
RSSD	66.15	50	P	09	15.50	-1.5
	0.6s	18.49nm			5.0mb	
		pP		10	26.30	314km
POO	68.08	273	eP	09	28.50	-0.6
GOL	68.66	54	P	09	33.00	0.4
GBA	69.32	267	Pc	09	35.90	-0.6
	0.5s	6.10nm			4.6mb	
WRA	70.47	197	P	09	42.00	-1.3
	1.3s	13.50nm			4.5mb	
ANMO	71.55	58	P	09	50.30	0.4
	0.8s	25.65nm			5.0mb	
ALQ	71.55	58	ePc	09	50.30	0.3
	0.8s	8.21nm			4.5mb	
		e		11	00.00	304km
KOD	71.79	265	eP	09	51.60	-0.1
ASPA	74.18	197	iPd	10	05.30	0.4
	0.5s	19.80nm			5.1mb	
GAC	77.06	32	ePc	10	20.30	-0.4
	0.5s	6.00nm			4.6mb	
FVM	77.45	45	P	10	23.00	0.0
WARB	78.21	203	iPd	10	28.10	0.9
ELC	78.57	45	P	10	29.40	0.3
LOR	79.86	338	eP	10	39.00	3.2X
	0.5s	1.45nm			4.1mb	
AVF	80.43	338	eP	10	42.10	3.3X
	0.5s	1.45nm			4.1mb	
SMF	80.45	338	eP	10	42.60	3.7X
	0.5s	2.20nm			4.2mb	
LPL	80.75	336	eP	10	44.90	4.1X
	0.4s	1.15nm			4.1mb	
LPG	80.76	336	eP	10	45.00	4.1X
	0.4s	1.15nm			4.1mb	
BGF	80.77	339	eP	10	44.30	3.7X
	0.4s	1.15nm			4.1mb	
MAF	81.16	339	eP	10	45.40	2.8X
	0.4s	1.70nm			4.2mb	
CAF	82.50	339	eP	10	50.90	1.4
MUN	86.67	209	eP	11	10.00	-0.1
NWAO	87.22	208	eP	11	12.80	0.1
	0.7s	13.00nm			5.0mb	
PPD	147.48	42	ePKP	18	09.70	3.4X
	S.D. = 0.9	on	80 of	98	obs.	

MAR 02, 1991 03h 15m 36.30± 0.39s
40.237 N ± 5.6km 25.234 E ± 3.7km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
MD 3.5 (THE), 3.2 (ATH).

EZN	0.93	116	iPg	15	54.60	0.5
			eSg	16	08.50	
RDO	0.94	14	iPbd	15	54.30	0.1
PRK	1.27	141	ePb	15	59.50	-0.4
SRS	1.53	306	ePd	16	02.50	-1.2
			eS	16	25.00	
SOH	1.55	293	ePd	16	03.40	-0.6
THE	1.78	284	iPc	16	09.00	1.8
KNT	2.00	298	iPc	16	09.90	-0.6
			eS	16	40.00	
EDC	2.01	86	ePn	16	10.00	-0.7
BNT	2.06	86	ePn	16	10.90	-0.5
LIT	2.11	267	iPc	16	15.00	2.9X
VAY	2.29	299	ePn	16	15.60	0.8
KCT	2.39	89	ePn	16	20.00	3.9X
IZM	2.42	139	ePn	16	16.30	-0.3
DMK	2.48	50	ePn	16	17.50	0.1
DST	2.69	102	iPn	16	20.10	-0.3
FNA	2.99	282	ePd	16	24.20	-0.5
YLV	3.18	83	ePn	16	29.00	1.6
IZI	3.24	87	ePn	16	28.00	-0.3
VLI	3.95	208	ePn	16	38.50	0.3
	S.D. = 0.9	on	17 of	19	obs.	

MAR 02, 1991 03h 23m 10.01± 1.15s
36.486 N ± 7.1km 71.132 E ± 5.9km
DEPTH = 148.5 ± 12.6 km
4.4mb (25 obs.)
AFGHANISTAN-USSR BORDER REGION (717)

QUE	7.19	210	iPc	24	54.10	0.2
	0.7s	479.45nm			6.1mb	X
			eS	26	12.50	
NDI	9.32	145	iPc	25	22.00	-0.1
	0.8s	28.36nm			5.0mb	
			eS	26	58.50	
GKN	14.21	123	P	26	25.00	-0.8
DMN	14.78	123	P	26	32.80	-0.2
KKN	14.78	122	P	26	32.40	-0.6
PKI	15.01	122	P	26	35.20	-0.8
GUN	15.12	120	P	26	37.00	-0.4
POO	18.04	172	eP	27	14.00	1.4
HYB	20.10	159	iPd	27	35.70	1.7
			eS	31	11.00	
GBA	23.48	164	Pd	28	07.60	0.4
	0.4s	3.80nm			4.2mb	
KOD	26.76	166	eP	28	39.90	1.9
CHTO	30.12	118	e(P)	29	07.20	-0.5
	0.5s	1.28nm			3.9mb	
			pP	29	38.30	147kmX
NUR	37.90	324	eP	30	14.00	0.1
KRA	38.91	307	eP	30	23.40	1.0
SOD	39.80	335	iP	30	39.00	9.6X
KEV	40.85	338	eP	30	40.00	1.9
BRG	42.71	308	iP	30	55.00	1.5
	0.6s	18.00nm			4.9mb	
HFS	43.14	322	eP	30	57.30	0.4
	0.3s	13.70nm			5.1mb	
CLL	43.28	309	iPd	30	59.00	0.9
NAO	44.62	323	P	31	08.50	-0.3
	0.5s	8.20nm			4.6mb	
CDF	47.31	306	eP	31	31.20	1.0
BSF	47.73	305	eP	31	33.10	-0.4
	0.5s	2.90nm			4.2mb	
HAU	47.99	305	eP	31	35.10	-0.3
	0.4s	1.15nm			4.0mb	
LPG	48.25	302	eP	31	38.60	0.9
LBF	49.78	304	eP	31	48.40	-0.8
	0.4s	1.45nm			4.1mb	
LOR	49.79	305	eP	31	49.80	0.6
SMF	49.95	304	eP	31	50.00	-0.4
	0.6s	2.70nm			4.2mb	
AVF	50.24	304	eP	31	52.20	-0.4
	0.6s	3.60nm			4.3mb	
BGF	50.64	304	eP	31	54.80	-0.8
	0.5s	2.20nm			4.2mb	
TCF	51.13	304	eP	31	59.00	-0.4
	0.5s	0.75nm			3.7mb	
CAF	51.60	302	eP	32	03.10	0.2
LSF	51.60	304	eP	32	02.20	-0.7
	0.6s	1.80nm			4.0mb	
LDF	52.07	307	eP	32	05.70	-0.7
	1.0s	10.00nm			4.5mb	
FLN	52.26	307	eP	32	06.90	-0.9
	0.5s	2.90nm			4.3mb	
EKA	52.37	316	P	32	09.00	0.5
	0.7s	3.30nm			4.2mb	
LFF	52.49	303	eP	32	09.60	0.1
GRR	52.60	307	eP	32	10.10	-0.2
	0.5s	1.45nm			4.0mb	
LPF	52.81	307	eP	32	10.40	-1.4
DAG	54.80	344	iPd	32	26.30	0.3
	0.6s	6.00nm			4.6mb	
BCAO	57.76	249	iPd	32	46.10	-1.7
	0.6s	10.00nm			4.9mb	
MBC	67.35	3	ePc	33	51.30	1.0
	0.5s	15.00nm			5.1mb	
INK	73.90	9	eP	34	30.50	0.8
KIC	74.89	267	P	34	35.00	-1.3
TIC	74.95	267	P	34	35.30	-1.4
YKA	81.26	3	eP	35	10.80	0.7
	0.4s	1.70nm			4.1mb	
WRA	81.89	122	P	35	14.00	-0.2
	0.4s	6.80nm			4.7mb	
WB2	81.90	122	iPc	35	13.80	-0.4
	0.4s	26.80nm			5.3mb	
			i	35	26.10	
ASPA	84.16	125	iPc	35	25.70	0.1
	0.6s	14.10nm			5.0mb	
ALQ	108.90	358	ePdiff	37	18.00	-1.2
	0.8s	3.73nm			5.7mb	X
			e	38	07.50	
PDCR	113.58	272	ePKP	41	30.40	-2.2X
	S.D. = 0.9	on	48 of	50	obs.	

MAR 02, 1991 03h 29m 26.12± 1.27s
9.175 N ± 6.5km 126.637 E ±10.4km
DEPTH = 86.1 ± 11.1 km
5.0mb (11 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

CGP	2.05	250	eP	29	59.00	-0.4
			iS	30	28.00	
DAV	2.33	207	eP	30	03.40	0.2
MAP	2.86	294	iPd	30	10.00	-0.4
			iS	30	52.00	
PGP	7.04	308	eP	31	17.00	8.5X
QCP	7.68	315	eP	31	09.00	-8.3X
PPR	7.82	275	ePd	31	21.00	1.8
	1.0s	7.00nm			4.3mb	
BAG	9.31	321	eP	31	20.00	-19.7X
			eS	33	50.00	
QZH	17.45	335	eP	33	24.00	-1.5
Z	18s	0.59um				
QIZ	18.99	303	eP	33	42.00	-1.8
N	18s	1.10um				
E	15s	0.70um				
SSE	22.39	348	Pc	34	16.00	-2.3
	5.0s	400.00nm			5.1mb	X
Z	20s	0.50um			3.9Msz	
N	12s	0.30um				
E	11s	0.50um				
			S	38	16.00	
NJ2	23.88	343	Pd	34	33.70	1.0
	1.0s	100.00nm			5.2mb	
WHN	24.16	333	eP	34	35.50	0.1
			pP	34	48.00	50kmX
IPM	25.83	262	ePd	34	54.90	3.6X
	1.0s	79.60nm			5.2mb	
NST	26.66	287	eP	35	01.50	2.6
TIA	28.27	344	Pd	35	12.40	-0.9
CHG	28.49	293	eP	35	15.00	-0.5
CHTO	28.49	293	eP	35	15.50	0.0
	1.6s	19.03nm			4.5mb	
			pP	36	26.50	392kmX
XAN	29.62	329	P	35	24.90	-0.6
TIY	31.17	338	eP	35	39.10	0.0
Z	20s	0.40um			4.1Msz	
BJI	32.12	345	eP	35	47.00	-0.3
	1.4s	66.00nm			5.2mb	
Z	1Bs	0.35um			4.1Msz	
			PcS	42	19.00	
QIS	32.18	157	iPd	35	47.00	-1.0
			i	36	00.00	
ASPA	33.40	168	eP	35	58.00	-0.7
	0.7s	8.30nm			4.7mb	
HHC	34.26	339	Pc	36	06.20	0.2
CN2	34.51	358	eP	36	10.60	2.7
Z	16s	0.60um			4.4MszX	
			eS	41	31.00	
BTO	34.60	337	eP	36	09.00	0.1
			eS	41	37.00	
WARB	35.15	180	iPd	36	15.00	1.5
MDJ	35.40	4	eP	36	17.50	2.0
GUN	42.64	301	P	37	16.20	-0.1
PKI	42.93	301	P	37	18.20	-0.4
KKN	43.11	301	P	37	19.60	-0.3
DMN	43.20	301	P	37	20.40	-0.3
STK	43.26	161	eP	37	30.90	10.2X
	0.7s	2.90nm				
			i	37	43.00	
			e	39	11.50	
GKN	43.71	301	P	37	24.00	-0.8
ADE	45.36	166	e(P)	37	37.00	-0.6
HYB	47.40	285	ePc	37	54.50	0.5
WMQ	48.30	322	P	38	01.50	0.8
GBA	48.37	280	Pc	38	02.20	0.7
	1.0s	27.40nm			5.1mb	
POO	51.93	286	iPc	38	28.00	-0.7
KEV	84.78	340	eP	41	50.00	-1.7

02d 03h

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INK     85.16  22 ePc   41 54.00   0.4
        0.6s     19.00nm          5.3mb
SOD     85.43 338 iP    41 55.00   0.0
MBC     86.69  13 eP    42 03.00   1.9
        1.0s      8.00nm          4.7mb
KAF     86.76 332 eP    42 02.00   0.4
NUR     87.93 331 eP    42 06.00  -1.2
DAG     91.89 352 iPc   42 26.10   0.6
        1.1s     13.92nm          5.2mb
                  ipP   43 04.80 152kmX
SLL     93.21 333 eP    42 32.00   0.1
        0.8s      4.60nm          4.9mb
CNCB   163.87 120 ePKP  49 25.00   3.4X
LPB    163.89 118 ePKP  49 21.00  -0.5
ZOBO   163.97 118 PKP   49 21.00  -0.8
     S.D. = 1.1  on  43 of  49 obs.
-----------------------------------------
   MAR  02, 1991  03h 32m 11.93± 0.30s
   14.407 N ± 5.6km   89.785 W ± 4.3km
   DEPTH = 261.2km  (  7 depth phases)
   4.5mb ( 37 obs.)
 GUATEMALA                          ( 70)

TPX      2.45 282 iPd   32 58.50  -1.3
                 iS     33 37.50
SCX      3.59 311 eP    33 12.50   0.5
                 (S)    33 58.00
OXX      7.19 293 iPd   33 54.69  -1.3
                 iS     35 04.23
LVVM     8.29 311 (P)   34 09.00  -0.6
IISM     8.58 303 eP    34 11.46  -1.9
IIT      9.37 300 iP    34 23.58  -0.1
                 iS     36 20.87
PPM      9.65 300 iP    34 27.72   0.2
                 iS     35 58.35
III     10.10 294 eP    34 32.80   0.0
CRX     10.69 299 (P)   34 42.00   1.6
MRX     12.11 297 iP    34 58.60   0.9
YANA    18.20 141 iP+   36 12.30   3.5X
OUR     18.27 141 eP    36 12.00   2.6
OTO     18.30 142 P     36 13.90   4.2X
SDV     19.54 104 eP    36 23.00   1.1
TOV     20.08 101 eP    36 29.80   2.6
PWLA    20.54   4 P     36 33.00   1.4
OLY     21.06 356 P     36 37.50   0.9
JSC     21.24  20 P     36 40.00   1.7
GBTN    21.75  12 P     36 44.90   1.6
TKL     21.84  13 P     36 45.80   1.6
BIX     22.16 347 eP    36 49.50   2.3
ELC     22.79   1 P     36 54.00   0.7
FVM     23.49 359 P     36 59.50  -0.4
BLA     24.20  18 P     37 07.00   0.5
        0.8s     11.74nm          4.4mb
ANMO    25.38 327 eP    37 18.00   0.5
        1.0s     23.13nm          4.7mb
                 pP     38 08.00 265km
CVL     25.54  21 P     37 18.50  -0.2
CLE     27.92  13 iP    37 40.10  -0.1
GLD     28.65 335 eP    37 47.30   0.4
        1.2s     40.40nm          4.9mb
                 pP     38 38.30 261km
GOL     28.67 334 iPd   37 47.00  -0.2
        0.8s     26.79nm          4.9mb
                 pP     38 37.80 260km
LVNJ    29.39  24 P     37 53.00  -0.1
TBR     29.88  24 P     37 57.30  -0.2
MSU     31.11 325 P     38 11.00   2.5
DAU     31.99 328 P     38 17.00   0.8
RSSD    32.02 340 P     38 16.80   0.5
        0.7s     29.41nm          5.0mb
RSNY    32.73  20 P     38 21.90  -0.3
        0.9s     49.57nm          5.1mb
BW06    33.00 333 eP    38 23.80  -1.0
        1.0s      7.75nm          4.3mb
GAC     33.45  18 eP    38 28.50   0.2
        1.0s     15.00nm          4.6mb
TNP     33.85 319 eP    38 32.90   0.8
        0.8s      2.06nm          3.8mb
                 pP     39 26.00 264km
LRM     36.68 333 eP    38 56.40   0.6
                 e      39 49.90 257km
CBM     37.14  25 P     38 59.20  -0.1
ZOBO    37.24 144 iP    39 02.70   1.5
     Z  20s      0.06um          3.4Msz
                 LR     48 45.00
FFC     41.34 349 iPc   39 34.00   0.2
        0.8s     32.00nm          4.8mb

SIV     41.44 136 P     39 35.20   0.1
                  i     40 30.00 264km
LON     41.89 327 P     39 38.00  -0.5
PNT     42.52 331 eP    39 44.00   0.5
        0.8s     19.00nm          4.5mb
EDM     42.98 339 ePc   39 46.50  -0.7
SCH     44.12  19 eP    39 56.10  -0.1
        0.4s     61.00nm          5.3mb
YKA     51.15 346 eP    40 48.50  -1.8
        0.9s     42.40nm          4.9mb
FRB     51.46  12 ePc   40 51.00  -1.5
        0.8s     60.00nm          5.1mb
PPD     52.29 133 eP    40 58.20  -1.0
SOB1    53.87 113 eP    41 10.10  -0.8
VAO     56.02 131 eP    41 26.10  -0.2
FBA     63.73 336 iP    42 17.20  -0.6
        0.9s      2.90nm          4.0mb
                  pP    43 16.00 257km
MBC     63.78 352 ePd   42 17.50  -0.4
        0.9s     42.00nm          5.2mb
EKA     76.38  36 P     43 33.00  -0.9
        0.6s      6.40nm          4.5mb
LPF     78.61  43 eP    43 45.60  -0.6
        0.7s      6.60nm          4.5mb
GRR     78.67  43 eP    43 46.20  -0.4
        0.7s      9.90nm          4.7mb
FLN     78.86  42 eP    43 47.20  -0.4
        0.7s      6.60nm          4.5mb
LDF     79.12  43 eP    43 48.60  -0.4
        0.7s      6.60nm          4.5mb
MFF     79.44  45 eP    43 49.70  -1.0
LFF     80.34  46 eP    43 54.40  -1.1
EPF     80.41  48 eP    43 56.00   0.0
LSF     80.64  45 eP    43 56.50  -0.6
LPO     80.70  46 eP    43 57.20  -0.2
RJF     80.81  46 eP    43 57.60  -0.4
TCF     81.10  45 eP    43 58.40  -1.1
MAF     81.35  45 eP    43 59.50  -1.3
        0.7s      4.40nm          4.3mb
BGF     81.47  44 eP    44 00.00  -1.4
        0.7s      6.05nm          4.5mb
AVF     81.77  44 eP    44 02.00  -0.9
        0.9s      9.85nm          4.6mb
SSF     81.81  44 eP    44 01.60  -1.5
        0.8s      4.70nm          4.3mb
LOR     82.00  43 eP    44 02.80  -1.3
        0.8s      5.35nm          4.3mb
LKO     82.10  82 P     44 04.58  -0.7
SMF     82.13  44 eP    44 03.10  -1.7
        0.9s      9.85nm          4.6mb
LBF     82.14  44 eP    44 05.10   0.2
NAO     82.64  29 P     44 06.40  -0.7
        1.0s      7.40nm          4.4mb
TIC     83.32  85 P     44 11.30  -0.1
LIC     83.42  85 P     44 11.70  -0.2
HAU     83.47  42 eP    44 10.50  -1.1
        0.6s      3.60nm          4.3mb
KIC     83.66  85 P     44 12.80  -0.3
BSF     83.81  42 eP    44 13.10  -0.3
        0.6s      3.60nm          4.4mb
CDF     83.97  42 eP    44 13.90  -0.3
        0.6s      1.80nm          4.1mb
HFS     84.20  29 eP    44 15.00   0.1
        0.8s      8.50nm          4.6mb
LPL     84.35  45 eP    44 16.50   0.2
        0.7s      3.30nm          4.3mb
MOX     86.06  39 eP    44 25.00   0.6
GRF     86.11  40 eP    44 25.20   0.6
        1.2s     16.00nm          4.7mb
     Z  25s      0.10um          4.1MszX
UPP     86.15  29 iP    44 25.30   0.8
CLL     86.68  38 iPd   44 28.20   0.9
        0.9s     12.00nm          4.7mb
BRG     87.39  38 eP    44 31.80   1.1
        1.5s     25.00nm          4.8mb
KHC     87.75  40 P     44 32.50   0.0
PRU     88.05  39 eP    44 33.50  -0.4
KBA     88.28  42 eP    44 35.00  -0.3
        0.8s      2.60nm          4.2mb
STK    130.13 240 ePKP  51 02.70   9.9X
        1.0s      2.50nm
GKN    137.50   7 PKP   51 00.00  -7.1X
WB2    137.56 256 iPKPd 50 57.60  -9.7X
        0.6s      2.40nm
                  i     51 08.00
                  iPP   54 16.80
WRA    137.57 256 PKP   51 08.00   0.7

        0.8s      6.00nm
ASPA   137.83 251 iPKPc 51 07.90   0.2
        1.0s      5.90nm
HYB    146.35  20 ePKP  51 23.40   0.8
GBA    149.43  25 PKPd  51 31.50   4.0X
        0.7s      4.40nm
MUN    150.51 229 ePKP  51 35.90   7.2X
        0.8s     35.00nm
BAL    150.80 232 ePKP  51 36.00   6.8X
     S.D. = 1.0  on  92 of 100 obs.
-----------------------------------------
   MAR  02, 1991  04h 05m 42.74± 0.29s
   10.965 S ± 5.5km  166.561 E ± 7.9km
   DEPTH =  33.0km  (normal)
   5.3mb ( 16 obs.)
 SANTA CRUZ ISLANDS                 (184)

HNR      6.69 283 P     06 42.00 -39.2X
                 S      07 32.00
SVO      6.88 285 eP    06 45.00 -39.0X
                 eS     07 37.00
BRS     20.86 217 iPc   10 27.00   2.5
RMO     22.82 225 eP    10 45.60   1.6
PGZ     30.76 165 P     11 56.90  -0.3
                 e      13 45.90
TCW     30.89 169 eP    11 59.40   1.0
MRW     30.99 168 eP    11 59.00  -0.3
STK     31.06 224 eP    12 10.30  10.3X
        0.2s     16.70nm
WDW     31.08 168 eP    11 59.80  -0.3
MTW     31.09 167 eP    11 59.70  -0.5
THZ     31.18 171 P     12 01.60   0.5
BLW     31.28 167 Pd    12 01.60  -0.3
MOW     31.29 167 eP    12 01.50  -0.4
LTZ     32.09 172 P     12 09.20   0.2
TOO     32.56 212 eP    12 14.00   0.8
ASPA    33.55 244 iPc   12 20.60  -1.3
        0.9s      7.80nm          4.6mb
                  iPcP  15 00.10
ADE     34.83 222 eP    12 33.20   0.4
        1.0s     56.00nm          5.4mb
TAU     35.97 204 eP    12 42.00  -0.3
FORR    40.74 235 iPd   13 02.80 -19.5X
MBL     45.88 251 iPc   14 04.80   0.6
COOL    46.44 238 eP    14 08.00  -0.5
MEKA    47.77 244 iPc   14 19.10   0.1
KLB     49.42 238 eP    14 30.50  -1.2
NANU    49.99 250 eP    14 36.50   0.4
BAL     50.09 239 eP    14 36.00  -0.8
NWAO    50.17 236 eP    14 36.50  -0.9
        0.7s     30.00nm          5.4mb
MUN     50.80 238 eP    14 41.80  -0.4
        0.8s     32.00nm          5.3mb
CHTO    72.92 294 iPc   17 11.50   0.3
        1.1s      9.42nm          4.7mb
                  pP    17 43.00 126kmX
LZH     75.30 312 eP    17 26.00   1.2
        1.0s     30.00nm          5.2mb
                  i     17 31.50
PDB     77.20  19 P     17 35.20   0.4
PMR     80.21  20 P     17 52.00   0.9
        0.5s      3.10nm          4.6mb
KLU     81.24  21 P     17 58.00   1.3
TOA     81.57  20 P     18 00.00   1.6
        0.8s     55.17nm          5.6mb
FBA     83.00  18 P     18 06.20   0.5
        0.7s     18.90nm          5.3mb
GUN     86.98 299 P     18 27.00   0.2
        0.6s     11.00nm          5.3mb
PKI     87.30 299 P     18 28.00  -0.3
        0.6s     15.00nm          5.4mb
KKN     87.46 299 P     18 29.20   0.2
        0.7s     21.00nm          5.5mb
DMN     87.57 299 P     18 30.00   0.5
        0.6s     27.00nm          5.7mb
GKN     88.07 299 P     18 31.20  -0.6
        0.8s     39.00nm          5.8mb
GBA     91.69 283 Pd    18 48.40  -0.3
        0.9s      5.70nm          5.0mb
YKA     94.54  27 eP    18 59.80  -1.0
        0.6s      1.50nm          4.6mb
MBC     96.84  13 eP    19 12.00   0.9
SCH    119.57  32 ePdiff20 49.00  -4.0X
KAF    121.45 339 ePKP  24 32.00  -1.9
NUR    123.14 339 iPKP  24 36.20  -1.0
        0.6s     11.70nm
HFS    126.94 343 ePKP  24 43.00  -1.6
```

	0.4s	0.80nm			
NAO	127.11	345 PKP	24	43.60	-1.3
	0.7s	2.50nm			
PPD	130.45	132 (Pdiff	21	59.00	16.7X
CDF	138.84	339 ePKP	25	06.50	-1.2
BSF	139.51	339 ePKP	25	08.00	-0.9
HAU	139.51	340 ePKP	25	09.10	0.3
FLN	140.80	346 ePKP	25	12.50	1.5
	0.4s	2.30nm			
LOR	140.98	341 ePKP	25	12.80	1.4
SSF	141.27	341 ePKP	25	14.30	2.4X
MFF	142.73	345 ePKP	25	11.10	-3.4X
	0.5s	2.20nm			
LFF	144.02	343 ePKP	25	14.50	-2.2X
	0.8s	10.75nm			
LPO	144.12	342 ePKP	25	15.00	-1.9
	0.8s	6.70nm			
	S.D. = 1.0	on 48 of 57 obs.			

? MAR 02, 1991 04h 06m 31.27± 2.05s
52.594 N ±42.9km 171.096 W ±18.8km
DEPTH = 33.0km (normal)
4.4mb (5 obs.)
FOX ISLANDS, ALEUTIAN ISLANDS (9)

ADK	3.51	261 eP	07	24.70	-0.1
SDN	6.83	62 eP	08	11.00	-0.7
TOA	16.37	45 e(P)	10	19.00	-0.9
INK	23.75	34 eP	11	41.50	0.6
MBC	30.71	22 eP	12	46.00	1.3
	0.5s	2.00nm		4.2mb	
YKA	30.89	49 eP	12	47.50	1.1
	0.6s	1.90nm		4.1mb	
NAO	66.92	359 P	17	21.20	-0.7
	0.9s	3.20nm		4.4mb	
HFS	67.56	357 eP	17	24.10	-1.8
	0.9s	8.40nm		4.8mb	
KBA	80.63	357 e(P)	18	43.00	1.1
	1.3s	8.60nm		4.6mb	
	S.D. = 1.3	on 9 of 9 obs.			

MAR 02, 1991 04h 12m 41.33± 0.67s
14.008 N ± 8.3km 91.382 W ± 7.0km
DEPTH = 74.6 ± 5.2 km
4.4mb (4 obs.)
GUATEMALA (70)
Felt (II) at San Salvador, El Salvador.

HUG	0.06	78 P	12	51.00	-2.2
FUG	0.68	50 P	12	56.00	-0.8
SOG2	0.73	346 iPc	12	55.50	-1.8
TER	0.74	67 P	12	56.00	-1.2
BVA	0.97	48 iPd	13	01.80	1.5
GCG	1.00	55 iPc	13	01.30	0.7
		S	13	15.00	
TPX	1.23	316 iPc	13	03.50	0.2
		iS	13	18.00	
SLP	1.29	55 iPd	13	05.00	0.8
CUSS	1.40	94 iPc	13	05.50	0.0
YUP	1.55	83 P	13	07.50	-0.1
MRL	1.95	57 iPd	13	13.00	-0.1
VSS	2.10	97 eP	13	16.20	1.1
SJAS	2.18	99 iPd	13	17.00	0.8
LFU	2.22	96 eP	13	17.40	0.7
SCX	2.97	336 eP	13	32.00	4.9X
		iS	14	13.50	
OXX	5.99	301 eP	14	13.50	4.0X
LVVM	7.48	320 (P)	14	30.50	0.6
		(S)	15	50.00	
IISM	7.59	312 eP	14	33.50	2.1
		iS	15	54.00	
IIT	8.30	308 eP	14	46.00	4.4X
PPM	8.58	307 eP	14	48.50	3.0X
		iS	16	27.50	
III	8.90	300 eP	14	49.50	-0.2
DVD	10.36	121 eP	15	11.00	1.6
MRX	10.96	302 (P)	15	21.00	3.5X
OLY	21.40	360 P	17	25.00	0.3
PRM	21.59	21 P	17	27.60	1.0
RSCP	22.13	13 P	17	32.00	0.0
		pP	17	50.00	82kmX
JSC	22.17	23 P	17	32.80	0.5
		pP	17	50.00	78kmX
TKL	22.62	16 P	17	37.00	0.3
		pP	17	55.00	81kmX
ALQ	24.89	329 eP	18	00.00	1.1
	1.0s	2.50nm		3.6mb	
ANMO	24.89	329 P	18	00.00	1.1
GAC	34.33	20 eP	19	21.00	-1.7
ZOBO	37.86	142 P	19	53.40	-0.1
Z	24s	0.18um		3.8MszX	
		LR	32	30.00	
LPB	38.08	142 (P)	19	56.00	0.9
		LR	22	40.00	
CNCB	38.36	142 P	19	59.20	1.5
LON	41.40	328 P	20	23.00	1.2
PNT	42.14	333 eP	20	29.00	1.1
	0.6s	5.00nm		4.5mb	
SIV	42.26	134 P	20	29.00	-0.2
YKA	51.16	346 eP	21	36.60	-1.9
	0.5s	1.40nm		4.2mb	
BAO	52.04	123 e(P)	21	35.00	-11.0X
FRB	52.17	13 eP	21	43.00	-3.2X
SOB1	55.15	112 eP	22	06.20	-2.6
		e	22	22.80	
PDCR	58.11	115 eP	22	28.10	-1.7
		e	22	44.60	
		e	24	42.30	
		e	25	18.70	
INK	60.60	343 eP	22	44.50	-1.7
PMR	62.68	333 P	22	59.80	-0.4
	1.0s	11.25nm		4.9mb	
MBC	63.98	353 eP	23	06.50	-2.0
LKO	83.69	82 P	25	01.88	-2.0
GBA	150.42	22 PKPd	32	25.60	4.5X
	0.5s	6.00nm			
KOD	153.50	25 ePKP	32	27.90	1.9
	S.D. = 1.3	on 40 of 48 obs.			

MAR 02, 1991 04h 56m 37.43± 0.82s
24.091 N ± 5.4km 121.807 E ± 8.0km
DEPTH = 34.8 ± 7.7 km
4.4mb (9 obs.)
TAIWAN (244)

TWD	0.19	267 iPc	56	43.50	-0.6
		eS	56	46.90	
TWC	0.52	4 iPc	56	49.80	1.6
		eS	56	58.10	
TWO	0.91	282 iPd	56	54.40	0.6
		eS	57	06.00	
TWZ	1.02	348 ePc	56	57.20	1.7
ANP	1.12	347 iP	57	01.10	4.1X
		eS	57	16.00	
TWK	1.46	236 iPc	57	03.40	1.5
QZH	3.05	287 Pnd	57	23.80	-0.6
Z	10s	2.03um			
		Sn	57	57.00	
PIP	5.84	191 iPc	58	04.50	0.5
CVP	6.35	180 ePc	58	12.00	0.8
SSE	7.00	356 Pc	58	18.50	-1.7
Z	20s	0.50um			
		pP	58	24.50	
HKC	7.25	257 iPc	58	22.50	-1.2
GZH	7.83	264 P	58	30.40	-1.4
NJ2	8.35	342 Pc	58	37.60	-1.4
	0.8s	100.00nm		6.0mb X	
		S	00	10.80	
WHN	9.23	316 eP	58	49.00	-2.2
Z	16s	0.60um			
		pP	58	54.50	
MAP	13.85	171 ePd	59	38.50	-15.1X
		iS	00	21.00	
GYA	13.90	283 P	59	53.20	-1.2
XAN	14.99	314 P	00	09.40	0.8
TIY	15.77	332 eP	00	24.50	5.9X
Z	13s	0.60um			
N	13s	0.50um			
LZH	19.57	312 eP	01	09.50	3.9X
	2.2s	42.00nm		4.3mb	
Z	15s	0.48um			
E	14s	0.34um			
		sP	01	21.00	
CN2	19.89	8 eP	01	10.00	1.3
		esP	01	22.00	
CHG	21.91	261 eP	01	30.80	1.3
CHTO	21.91	261 eP	01	30.10	0.6
	0.7s	2.54nm		3.8mb	
GTA	24.06	315 eP	01	53.00	2.5
KKN	32.98	284 P	03	13.40	1.8
DMN	33.14	284 P	03	14.50	1.5
GKN	33.54	285 P	03	16 50	0.1
WMQ	34.13	314 eP	03	20.10	-1.2
WRA	45.44	163 eP	04	54.00	-1.0
	0.7s	6.70nm		4.7mb	
WB2	45.44	163 eP	04	54.00	-1.0
	0.7s	6.70nm		4.7mb	
ASPA	48.90	165 eP	05	21.30	-0.8
	0.3s	5.50nm		5.1mb	
WARB	50.20	174 iPd	05	31.80	-0.2
STK	58.78	160 eP	06	43.70	9.1X
	0.7s	2.30nm		4.4mb	
INK	73.10	22 eP	08	06.00	0.3
MBC	73.23	13 eP	08	06.00	-0.4
HFS	77.92	331 eP	08	32.10	-1.1
	0.4s	0.70nm		4.0mb	
NAO	78.84	332 P	08	36.90	-1.3
	1.1s	4.10nm		4.3mb	
YKA	82.83	23 eP	08	59.50	0.2
	0.7s	0.90nm		4.0mb	
	S.D. = 1.3	on 32 of 37 obs.			

• MAR 02, 1991 06h 16m 41.91± 2.22s
9.211 N ±12.2km 126.876 E ±18.0km
DEPTH = 72.0 ± 18.3 km
4.3mb (4 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

CGP	2.28	251 eP	17	18.00	-0.1
		iS	17	55.00	
MAP	3.06	291 eP	17	29.00	0.1
		eS	18	09.00	
SSE	22.41	347 e(P)	21	35.50	0.0
		pP	22	11.50	
CHTO	28.69	292 eP	22	35.40	0.9
	1.0s	1.75nm		3.6mb	
WB2	29.89	166 eP	22	42.60	-2.5
	0.5s	2.30nm		4.2mb	
		i	22	46.00	
QIS	32.12	157 eP	23	06.00	1.3
BJI	32.15	344 eP	23	05.00	0.3
ASPA	33.39	168 eP	23	16.90	1.2
	0.9s	5.20nm		4.4mb	
GUN	42.82	301 P	24	35.00	0.0
PKI	43.12	301 P	24	36.80	-0.6
KKN	43.29	301 P	24	38.20	-0.4
DMN	43.39	301 P	24	39.00	-0.5
GKN	43.90	301 P	24	42.80	-0.7
GBA	48.60	280 Pd	25	21.50	1.0
	0.6s	2.40nm		4.4mb	
	S.D. = 1.1	on 14 of 14 obs.			

• MAR 02, 1991 07h 06m 52.65± 1.43s
14.254 N ±13.3km 93.629 W ± 8.3km
DEPTH = 45.7 ± 10.3 km
4.5mb (6 obs.)
NEAR COAST OF CHIAPAS, MEXICO (69)

TPX	1.47	64 (P)	07	16.50	-0.7
		(S)	07	35.00	
SCX	2.65	21 (P)	07	34.50	0.6
OXX	4.10	314 (P)	07	54.00	-0.6
IISM	5.92	323 (P)	08	24.50	4.4X
PPM	6.77	316 (P)	08	33.50	1.0
III	6.94	307 (P)	08	34.00	-0.7
MRX	9.04	308 (P)	09	04.00	0.5
MEO	20.92	349 iPc	11	32.50	-1.3
OLY	21.25	5 P	11	37.00	-0.1
TKL	23.08	21 P	11	56.50	1.3
ANMO	23.63	333 P	12	03.00	2.3
	1.0s	13.13nm		4.4mb	
GOL	27.37	340 P	12	35.60	-0.3
	0.9s	8.05nm		4.4mb	
BW06	31.56	337 P	13	12.50	-0.8
PNT	40.94	334 eP	14	33.00	0.6
SIV	44.03	132 P	14	57.80	-0.1
YKA	50.43	348 eP	15	45.90	-1.5
	0.8s	6.20nm		4.7mb	
FRB	52.43	14 ePd	16	00.90	-1.7
INK	59.75	344 eP	16	54.00	-0.9
PDCR	60.20	114 eP	16	58.40	-0.3
TOA	60.45	335 P	17	01.00	1.1
F8A	62.39	337 P	17	11.50	-1.4
DAG	72.76	13 iPd	18	17.30	-0.3
	0.9s	10.92nm		4.8mb	
NAO	84.57	28 P	19	24.00	1.9
	0.9s	9.10nm		4.9mb	
LKO	85.81	81 P	19	30.06	0.8
APO	86.10	28 eP	19	30.20	0.4
	0.5s	1.00nm		4.3mb	

02d 07h

HYB	147.60	14	ePKP	26 34.50	2.8X
GBA	150.94	18	PKPc	26 43.00	6.1X
	0.8s		8.10nm		
	S.D. = 1.1		on 24 of 27 obs.		

MAR 02, 1991 07h 06m 55.75± 0.34s
40.210 N ± 3.7km 25.144 E ± 3.4km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
ML 3.7 (ATH).

RDO	0.98	18	iPnc	07 14.20	-0.2
EZN	0.98	113	iPg	07 14.70	0.3
PRK	1.30	138	iPnd	07 19.60	-0.2
KDZ	1.45	8	iPc	07 22.00	0.0
SOH	1.50	295	ePd	07 24.00	1.3
RZN	1.51	348	iPc	07 23.00	0.0
THE	1.72	285	ePd	07 29.80	4.0X
MMB	1.75	323	eP	07 26.00	-0.3
PLD	1.92	350	iPc	07 29.00	0.2
LIT	2.04	268	iPc	07 36.10	5.6X
EDC	2.08	85	iPn	07 32.00	0.8
BNT	2.13	85	iPn	07 31.80	0.0
VAY	2.25	300	iPn	07 34.80	1.3
			i	07 40.00	
			i	08 09.30	
			Lg	08 14.00	
KKB	2.27	317	iPc	07 33.00	-0.9
IZM	2.44	137	iPn	07 36.40	0.0
PGB	2.45	343	iPc	07 36.00	-0.4
AGG	2.48	242	ePd	07 37.00	0.2
ATH	2.50	207	ePn	07 37.30	0.3
JMB	2.50	25	iP	07 43.00	5.9X
DMK	2.55	50	ePn	07 36.50	-1.3
KZN	2.58	273	ePn	07 38.50	0.1
DST	2.75	102	ePn	07 40.40	-0.3
VTS	2.79	329	iPc	07 42.00	0.6
FNA	2.93	282	iPc	07 44.00	0.7
PVL	3.01	3	iPd	07 44.00	-0.3
ISK	3.10	73	ePn	07 46.00	0.4
YLV	3.25	82	ePn	07 50.00	2.2
SKO	3.31	303	ePn	07 48.70	0.1
			eSn	08 31.50	
OHR	3.43	287	ePn	07 54.50	4.2X
HRT	3.50	78	ePn	07 56.00	4.6X
KHL	3.89	118	ePn	07 46.00	-10.9X
VLI	3.89	207	ePn	07 54.40	-2.5
YER	3.93	140	ePn	07 57.40	-0.1
ISR	5.03	11	eP	08 27.00	13.9X
COZ	5.14	354	eP	08 22.50	7.8X
MLR	5.31	6	eP	08 25.00	7.9X
CFR	5.44	23	eP	08 38.00	19.2X
CVO	5.66	7	eP	08 07.00	-14.9X
VRI	5.77	11	ePd	08 21.50	-2.0
BBTK	5.86	91	eP	08 48.00	23.2X
			i	10 08.00	
BZS	5.99	336	ePc	08 31.00	4.5X
	S.D. = 1.0		on 28 of 41 obs.		

? MAR 02, 1991 08h 07m 08.95± 4.91s
9.195 S ±53.3km 124.316 E ±24.3km
DEPTH = 84.0 ± 31.3 km
4.4mb (2 obs.)
TIMOR (289)

KUPT	1.18	216	ePc	07 30.70	0.0
MTN	7.61	119	eP	08 59.00	-0.2
	0.3s		110.00nm		6.0mb X
			eS	10 20.00	
KNA	7.83	147	iPd	09 02.50	0.3
			eS	10 27.00	
WB2	14.43	139	iPd	10 28.00	-2.5X
	0.2s		10.00nm		4.7mb
			i	10 36.70	
			iS	13 02.50	
ASPA	17.06	149	iPc	11 03.30	-0.4
	0.6s		8.20nm		4.1mb
			eS	14 05.10	
OIS	18.58	129	iPc	11 22.50	0.3
	S.D. = 0.6		on 5 of 6 obs.		

% MAR 02, 1991 08h 07m 53.63± 0.92s
39.223 N ± 8.1km 27.891 E ±13.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

DST	0.69	56	ePg	08 07.40	0.1
			eSg	08 21.40	
IZM	0.96	211	ePn	08 11.90	0.0
KCT	1.09	19	ePn	08 13.70	-0.3
EDC	1.12	359	ePn	08 15.00	0.3
BNT	1.13	1	ePn	08 14.70	-0.1
	S.D. = 0.4		on 5 of 5 obs.		

& MAR 02, 1991 08h 41m 37.49s
40.091 N 109.483 W
DEPTH = 1.1km
3.0mb (1 obs.)
UTAH (478)
<SLC-P>. ML 3.3 (SLC).

DAU	1.39	284	iP	42 02.60	-1.6
PV09	1.61	170	eP	42 07.30	-0.2
DUG	2.55	273	eP	42 20.00	-0.9
MSU	2.62	234	eP	42 22.50	0.7
BW06	2.69	359	eP	42 20.20	-2.6
GOL	3.19	96	eP	42 30.00	0.0
LTMT	4.84	337	ePn	42 51.90	-1.6
MCMT	5.35	333	ePn	43 00.80	0.2
BGMT	5.47	341	ePn	43 02.10	-0.3
ANMO	5.67	154	eP	43 03.00	-2.2
ALQ	5.67	154	eP	43 02.50	-2.7
RSSD	5.71	43	eP	43 02.00	-3.7
LRM	6.13	340	ePn	43 10.70	-0.9
HBMT	6.14	339	ePn	43 11.10	-0.7
SXM	6.19	349	ePn	43 12.00	-0.4
YKA	22.65	354	eP	46 37.20	-3.8
	0.7s		0.40nm		3.0mb
	16 obs. associated				

? MAR 02, 1991 09h 06m 03.35± 1.62s
23.984 S ±15.9km 179.888 W ±25.3km
DEPTH = 518.2 ± 23.3 km
4.8mb (7 obs.)
SOUTH OF FIJI ISLANDS (171)

MBU	7.10	349	iPd	07 51.50	-0.6
DZM	12.73	276	iPc	08 53.00	2.6
THZ	18.72	197	eP	09 50.30	0.6
KHZ	19.18	195	eP	09 53.70	-0.2
	0.3s		17.00nm		5.2mb
LTZ	19.84	197	eP	09 58.60	-1.7
CMS	31.16	248	iPd	11 41.20	0.3
TOO	32.49	237	iPc	11 53.20	1.1
STK	34.79	248	eP	12 22.10	10.7X
	1.8s		4.20nm		
ASPA	42.12	261	iPd	13 10.90	-0.3
	0.6s		21.00nm		4.8mb
			iScP	17 57.80	
			eS	18 51.80	
WB2	42.49	266	eP	13 12.50	-1.7
	0.5s		35.60nm		5.2mb
			iScP	18 00.40	
			iS	18 56.70	
WRA	42.50	266	P	13 13.00	-1.2
	0.5s		19.90nm		4.9mb
MBL	55.37	260	eP	14 48.80	-1.4
NANU	58.86	257	iPd	15 13.60	-0.5
	0.4s		14.00nm		4.7mb
SPA	66.16	180	iPc	16 02.30	1.6
	1.0s		20.00nm		4.7mb
CHTO	89.80	291	eP	18 09.10	1.5
	1.0s		2.75nm		4.1mb
HFS	142.65	349	ePKP	24 32.70	-5.3X
	0.4s		4.10nm		
KSP	150.40	339	iPKP	24 56.50	5.7X
	S.D. = 1.5		on 14 of 17 obs.		

MAR 02, 1991 10h 25m 04.81± 0.69s
41.082 N ± 7.1km 22.307 E ± 5.3km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MD 2.3 (THE). ML 1.3 (SKO).

GRG	0.14	150	ePd	25 08.10	-0.1
VAY	0.31	40	iPg	25 11.60	0.3
			iSg	25 16.30	
KNT	0.45	80	iPc	25 13.80	-0.3
			eS	25 18.10	
FNA	0.77	247	ePd	25 20.00	0.2
SRS	0.97	87	ePd	25 23.40	0.1
			eS	25 36.10	
SKO	1.10	324	ePg	25 25.20	-0.3
			e	25 30.60	
			iSg	25 41.00	
	S.D. = 0.3		on 6 of 6 obs.		

MAR 02, 1991 10h 55m 20.73± 0.35s
43.986 N ± 4.0km 8.723 E ± 2.5km
DEPTH = 10.0km (geophysicist)
CORSICA (380)
ML 3.0 (GEN). MD 2.4 (STR).

FIN	0.43	301	P	55 29.63	0.1
			S	55 35.79	
CKI	0.54	324	P	55 31.60	-0.1
			eSg	55 39.10	
PCP	0.57	347	P	55 32.10	-0.2
			S	55 40.20	
IMI	0.61	263	P	55 33.22	0.2
			S	55 41.46	
ROB	0.69	297	P	55 34.15	-0.2
			S	55 42.96	
SAOF	0.84	270	Pg	55 37.28	0.3
			Sg	55 48.87	
AUTN	0.94	271	Pg	55 39.25	0.5
			Sg	55 52.12	
BOB	0.94	33	P	55 39.70	1.0
			eSg	55 51.70	
ENR	0.97	285	P	55 39.58	0.4
			S	55 51.58	
REVF	1.01	256	Pg	55 39.44	-0.5
AURF	1.01	265	Pg	55 39.44	-0.5
STV	1.04	285	P	55 40.81	0.4
			S	55 54.65	
TOUF	1.06	272	Pg	55 41.22	0.3
			Sg	55 57.06	
DOI	1.18	296	P	55 43.10	0.3
			eSg	55 58.00	
PZZ	1.28	295	P	55 45.12	0.6
			S	56 02.06	
CALN	1.35	261	Pg	55 46.70	1.1
BHB	1.35	310	P	55 46.40	0.8
			S	56 02.94	
BDI	1.35	86	P	55 46.20	0.5
			eSg	56 04.40	
MME	1.44	81	P	55 48.20	1.1
			eSg	56 06.00	
PGF	1.45	172	Pg	55 46.05	-1.1
RSP	1.57	319	P	55 47.74	-1.0
			S	56 06.68	
RRL	1.67	305	P	55 49.44	-1.0
ORO	1.72	342	P	55 50.10	-0.9
ORX	1.73	342	P	55 50.71	-0.4
BNI	1.81	307	P	55 51.70	-0.6
			eSn	56 11.90	
LSD	1.85	323	P	55 55.68	2.7X
			S	56 18.32	
CDR	2.16	263	e(Pn)	56 00.50	3.2X
			e	56 24.70	
			e	56 28.40	
SFI	2.26	91	P	55 57.80	-0.9
			eSn	56 26.60	
CRE	2.36	98	P	56 00.30	0.0
	S.D. = 0.7		on 27 of 29 obs.		

% MAR 02, 1991 14h 28m 18.88± 0.78s
39.705 N ± 5.5km 16.369 E ± 9.3km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

TDS	0.05	207	Pd	28 20.70	-0.4
			iSg	28 23.10	
ORI	0.36	10	P	28 26.20	-0.2
			iSg	28 31.50	
MGR	0.76	305	P	28 33.50	-0.2
			eSg	28 45.30	
SGO	1.18	317	P	28 41.20	0.4
BRT	1.33	28	P	28 43.50	0.0
			eSn	29 02.70	
SOI	1.65	189	P	28 48.30	0.3
	S.D. = 0.4		on 6 of 6 obs.		

% MAR 02, 1991 14h 54m 33.48± 0.59s
44.342 N ± 6.4km 11.053 E ± 4.2km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

MME	0.29	240	P	54 40.30	0.6
			eSg	54 45.00	
BDI	0.43	230	P	54 42.00	-0.3

		eSg	54 48.40			
PGD	0.67	134 P	54 46.50	-0.4		
		eSg	54 55.10			
SFI	0.71	126 P	54 47.30	-0.2		
		eSg	54 57.90			
CRE	0.96	137 P	54 52.20	0.3		
		eSg	55 06.00			
RSM	1.09	112 P	54 54.80	0.9		
BOB	1.22	291 P	54 56.10	-0.2		
		eSg	55 15.00			
ARV	1.60	121 P	55 01.30	-0.7		
CTI	1.76	14 P	55 04.30	0.0		
		eSn	55 26.70			

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

MAR 02, 1991 15h 00m 47.78± 0.55s
41.066 N ± 5.2km 22.431 E ± 4.5km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MD 2.9 (THE). ML 2.3 (SKO).

GRG	0.11	192 ePd	00 51.20	0.5		
VAY	0.28	22 iPg	00 53.50	-0.1		
		iSg	00 57.20			
KNT	0.37	75 iPc	00 55.44	0.1		
		eS	01 00.00			
THE	0.59	137 ePd	00 59.28	-0.5		
SOH	0.74	109 ePd	01 02.10	-0.2		
		eS	01 12.10			
FNA	0.85	251 ePd	01 04.00	-0.2		
SRS	0.88	86 ePd	01 05.00	0.3		
SKO	1.17	321 ePg	01 09.60	-0.1		
		eSg	01 25.00			

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

• MAR 02, 1991 16h 09m 53.10± 0.61s
7.225 N ± 9.4km 127.342 E ±11.8km
DEPTH = 10.0km (geophysicist)
4.2mb (1 obs.)
PHILIPPINE ISLANDS REGION (248)

CGP	2.89	295 iPd	10 39.50	-0.6		
		iS	11 15.00			
MAP	4.53	313 ePc	11 03.00	-0.3		
		eS	11 42.00			
CHTO	29.92	295 e(P)	16 04.90	1.2		
MEKA	34.70	194 eP	16 45.00	-0.4		
FORR	37.86	179 iPd	17 11.90	0.0		
MUN	40.41	195 eP	17 33.30	0.2		
INK	86.71	22 eP	22 38.50	0.3		
MBC	88.43	13 eP	22 46.50	0.2		
YKA	96.08	24 eP	23 21.30	-0.7		
	0.9s	0.80nm		4.2mb		

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

MAR 02, 1991 16h 34m 15.29± 0.43s
5.599 S ± 7.3km 103.156 E ± 7.6km
DEPTH = 41.5km (7 depth phases)
4.9mb (15 obs.) 4.6Msz (4 obs.)
SOUTHERN SUMATERA (274)

KGM	7.57	1 eP	36 11.00	5.1X		
IPM	10.33	348 ePc	36 47.00	2.9		
KHT	20.75	347 iPd	38 54.00	-1.2		
NST	21.35	352 eP	39 01.00	-0.2		
PPR	21.77	46 iP	39 07.00	1.5		
	1.0s	7.50nm		4.1mb		
MBL	22.38	135 eP	39 12.00	0.5		
		eS	43 10.00			
LOE	22.90	356 eP	38 58.00	-18.6X		
BDT	23.06	350 eP	39 14.80	-3.4X		
CHG	24.61	350 iPc	39 32.70	-0.5		
	0.9s	31.51nm		4.9mb		
CHTO	24.61	350 iPc	39 32.70	-0.5		
	0.7s	23.82nm		4.9mb		
		pP	39 41.90	33km		
		sP	39 49.40			
OIZ	25.34	15 eP	39 40.80	0.6		
CGP	25.62	57 eP	39 48.00	5.3X		
PGP	25.93	43 eP	39 49.00	3.4X		
MTN	28.51	107 eP	40 08.00	-1.2		
	0.3s	48.00nm		5.6mb X		
KOD	30.03	302 eP	40 24.50	1.3		
KMI	30.54	359 Pc	40 27.50	0.0		
Z	15s	1.10um		4.6MszX		
		pP	40 39.50	46km		
GBA	31.88	307 Pc	40 38.80	-0.2		
	0.8s	5.60nm		4.5mb		
GYA	32.05	6 P	40 40.00	-0.6		
HYB	33.37	314 eP	40 51.40	-0.7		
WRA	33.50	118 iPc	40 53.10	-0.1		
	0.8s	14.60nm		4.9mb		
		eS	46 18.50			
WB2	33.51	118 iPc	40 53.10	-0.2		
	0.8s	14.60nm		4.9mb		
		eS	46 18.50			
CD2	36.31	1 P	41 16.10	-0.9		
PKI	37.17	333 P	41 24.50	-0.2		
	0.8s	26.00nm		5.2mb		
GUN	37.26	334 P	41 25.60	0.2		
DMN	37.34	333 P	41 25.90	-0.1		
KKN	37.41	333 P	41 26.60	0.0		
WHN	37.50	16 eP	41 29.00	2.0		
		pP	41 40.00	39km		
POO	37.55	310 eP	41 28.00	0.4		
GKN	37.89	333 P	41 30.40	-0.1		
QIS	38.37	116 iPc	41 35.10	0.6		
	0.5s	12.00nm		5.0mb		
XAN	39.80	7 Pc	41 45.20	-1.0		
LZH	41.47	1 eP	42 00.00	-0.1		
	1.5s	23.00nm		4.7mb		
NDI	42.26	325 iPc	42 06.40	0.0		
	0.6s	46.67nm		5.4mb		
TIY	43.95	11 eP	42 20.00	-0.2		
Z	20s	1.00um		4.7Msz		
N	18s	1.00um				
		pP	42 32.50	46km		
STK	44.42	131 eP	42 34.70	10.6X		
	0.5s	9.40nm				
		i	42 46.00	40km		
GTA	44.89	356 iPc	42 28.00	0.2		
	0.8s	10.00nm		4.7mb		
Z	16s	1.00um		4.8MszX		
N	10s	0.50um				
HHC	46.86	9 Pd	42 44.20	0.8		
Z	20s	0.60um		4.6Msz		
BJI	46.97	14 eP	42 44.00	-0.1		
	0.9s	11.00nm		4.8mb		
Z	20s	0.36um		4.3Msz		
CMS	47.50	128 eP	42 50.00	1.5		
OUE	49.69	318 eP	43 05.40	-0.3		
WMQ	51.14	346 iPc	43 16.00	-0.3		
	1.2s	90.00nm		5.6mb		
		S	50 31.50			
CN2	53.13	20 Pc	43 30.00	-1.1		
	1.0s	20.00nm		5.1mb		
Z	18s	0.60um		4.7Msz		
		pP	43 42.00	42km		
		PcP	44 38.00			
		eS	50 55.00			
MAT	53.22	35 eP	43 30.00	-1.9		
	0.7s	6.85nm		4.8mb		
VRI	84.62	317 ePc	46 46.00	0.2		
MLR	85.06	316 ePc	46 58.00	9.8X		
BCAO	85.09	275 iPc	47 01.20	12.3X		
	0.7s	15.00nm				
OHR	87.91	311 eP	47 02.20	0.1		
KAF	88.80	333 eP	47 05.00	-0.9		
NUR	89.20	331 eP	47 11.00	3.2X		
SPC	89.57	319 eP	47 22.80	12.7X		
KRA	89.90	320 eP	47 12.20	0.9		
		e	47 25.70	45km		
ZST	91.50	318 eP	47 32.40	13.7X		
YKA	116.82	19 ePKP	52 55.60	-1.0		
	0.7s	0.60nm				
SIV	153.47	216 PKP	54 12.00	8.2X		

S.D. = 0.9 on 42 of 54 obs.

MAR 02, 1991 18h 13m 18.88± 0.67s
23.924 N ± 3.5km 121.733 E ± 4.5km
DEPTH = 18.7 ± 4.7 km
5.0mb (19 obs.)
TAIWAN (244)
ML 4.7 (BJI).

TWD	0.20	321 iPc	13 22.90	-1.0		
		eS	13 26.10			
TWC	0.69	9 iPc	13 32.70	0.6		
		eS	13 43.10			
TWF1	0.70	215 ePc	13 31.90	-0.3		
		eS	13 42.40			
TWO	0.89	293 iPc	13 36.40	0.9		
		eS	13 49.30			
TWG	1.25	209 eP	13 41.90	0.5		
ANP	1.27	351 iP	13 43.80	2.1		
		eS	13 59.00			
TWK	1.32	240 ePc	13 43.10	0.8		
		eS	14 02.20			
OZH	3.04	290 Pnc	14 06.00	-0.9		
Z	10s	86.00um				
		Pg	14 18.00			
		Sn	14 45.00			
PIP	5.67	191 iPd	14 45.50	1.3		
CVP	6.19	179 eP	14 51.00	-0.5		
		eS	16 05.00			
SZP	6.45	191 eP	15 01.80	6.5X		
HKC	7.14	258 eP	15 04.70	-0.3		
		eS	16 23.00			
SSE	7.16	356 eP	15 01.50	-3.7X		
Z	10s	23.40um				
		sP	15 12.00			
		S	16 34.00			
BAG	7.55	188 eP	15 09.00	-1.9		
		eS	16 39.00			
GZH	7.74	266 P	15 13.00	-0.4		
		S	16 38.00			
NJ2	8.49	343 Pd	15 21.60	-2.1		
	1.0s	100.00nm		6.0mb		
Z	10s	17.90um		3.8Msz		
		sP	15 32.60			
		S	16 58.80			
WHN	9.31	317 eP	15 32.50	-2.5		
		pP	15 38.00			
		S	17 18.50			
OIZ	12.09	249 eP	16 13.80	0.6		
N	14s	10.80um				
E	13s	4.70um				
		eS	18 31.40			
TIA	12.88	343 eP	16 27.40	3.8X		
	9.0s	1200.00nm		6.1mb X		
MAP	13.69	171 eP	16 47.50	13.0X		
GYA	13.88	284 P	16 37.00	0.0		
Z	10s	13.50um				
		sP	16 48.00			
PPR	14.36	192 iPc	16 51.00	7.8X		
DL2	14.94	360 P	16 52.00	1.3		
	4.0s	1800.00nm		5.8mb X		
Z	10s	5.70um				
N	12s	5.40um				
E	10s	4.20um				
XAN	15.06	315 Pd	16 51.40	-1.0		
N	10s	13.90um				
E	10s	21.10um				
		pP	17 04.00			
CGP	15.64	169 eP	17 06.00	6.0X		
TIY	15.88	332 iPc	17 05.00	1.9		
Z	10s	12.40um				
BJI	16.74	345 eP	17 16.00	2.2		
	8.0s	1140.00nm		5.1mb X		
Z	12s	6.32um				
E	11s	4.23um				
DAV	17.14	167 eP	17 16.00	-3.1X		
KMI	17.33	278 Pc	17 21.00	-0.6		
	2.5s	100.00nm		4.5mb		
Z	10s	16.20um				
		pP	17 33.00			
CD2	17.40	297 eP	17 22.60	0.3		
Z	12s	38.50um				
E	10s	32.70um				
SNY	17.92	4 iPc	17 29.00	0.4		
Z	10s	10.30um				
		pP	17 36.00			
HHC	18.91	336 P	17 42.40	1.4		
Z	10s	9.40um				
		sP	17 59.00			
MAT	18.96	45 eP	17 45.00	3.5X		
	1.1s	15.19nm		4.1mb		
Z	18s	1.37um				
		eS	21 14.00			
BTO	19.32	332 P	17 45.00	-1.0		
E	10s	10.50um				
LZH	19.63	312 Pc	17 49.00	-0.6		
	7.0s	2030.00nm		5.5mb X		
Z	10s	12.70um				
		PP	18 12.00			
		sS	21 40.00			
LOE	19.80	255 eP	17 52.00	0.8		
		e	24 08.00			
CN2	20.06	8 Pc	17 52.00	-1.8		
	4.0s	700.00nm		5.3mb X		
Z	14s	14.60um		5.5MszX		

02d 18h

N 10s 5.50um
E 10s 3.20um
epP 18 01.00 35kmX
eS 21 36.00
MDJ 21.62 15 eP 18 11.20 1.4
1.2s 80.00nm 5.0mb
Z 24s 8.00um 5.0MszX
sP 18 24.00
CHG 21.81 261 iPd 18 13.60 1.6
1.1s 18.99nm 4.4mb
eS 22 26.00
CHTO 21.81 261 iP 18 13.70 1.7
NST 21.90 252 eP 18 22.00 9.2X
KHT 23.62 252 eP 18 36.50 6.8X
NNT 23.70 245 eP 18 34.60 4.1X
GTA 24.12 315 eP 18 35.00 0.4
4.0s 670.00nm 5.6mb X
Z 10s 9.70um 5.6MszX
sP 18 42.00
sS 23 04.00
GUA 24.22 111 eP 18 35.80 0.2
SNG 26.22 234 eP 18 34.60 -19.9X
GUN 32.42 285 P 19 50.80 0.4
0.8s 44.00nm 5.4mb
PKI 32.85 284 P 19 53.80 -0.3
1.0s 24.00nm 5.1mb
KKN 32.95 285 P 19 54.20 -0.7
DMN 33.11 284 P 19 55.80 -0.5
1.0s 41.00nm 5.3mb
GKN 33.52 285 P 19 59.00 -0.7
1.0s 46.00nm 5.4mb
WMO 34.20 314 P 20 05.50 0.1
6.0s 700.00nm 5.8mb X
NDI 40.02 287 iPc 20 54.00 -0.4
ePP 22 34.00
eS 27 06.00
eSS 30 06.00
HYB 40.80 269 eP 21 02.00 1.0
KSH 41.45 303 P 21 06.00 -0.2
GBA 43.02 264 P 21 20.00 0.8
KOD 44.26 260 eP 21 33.60 4.0X
POO 44.79 273 iPd 21 33.40 -0.2
QIS 47.52 157 eP 21 56.00 1.0
QUE 48.80 290 eP 22 05.90 0.7
e(S) 29 11.60
BRW 64.84 21 ePd 23 58.60 0.2
SVW 65.83 32 ePd 24 05.40 0.4
IMA 66.21 26 ePd 24 07.60 0.1
1.2s 16.20nm 5.1mb
PDB 66.69 33 P 24 10.50 0.0
FBA 68.81 27 ePc 24 25.20 1.5
1.6s 39.00nm 5.3mb
PMR 68.85 31 eP 24 24.20 0.2
1.3s 29.00nm 5.3mb
KEV 69.40 338 eP 24 33.00 5.8X
SOD 70.10 336 iP 24 31.00 -0.5
TOA 70.12 30 eP 24 31.30 -0.5
KLU 70.38 31 P 24 32.70 -0.7
KAF 71.63 330 eP 24 44.00 3.2X
NUR 72.87 329 eP 24 57.00 8.8X
INK 73.28 22 eP 24 49.00 -1.5
MBC 73.40 13 eP 24 50.50 -0.6
1.5s 19.00nm 4.9mb
BBTK 74.34 307 iP 24 56.00 -1.3
UPP 76.38 330 iP 25 15.10 6.8X
VRI 76.55 314 ePc 25 29.00 19.3X
MLR 77.19 314 eP 25 22.00 8.6X
SLL 78.05 331 eP 25 16.50 -1.1
0.3s 1.40nm 4.5mb
NAO 78.96 332 P 25 19.50 -3.1X
0.7s 2.80nm 4.4mb
KRA 79.18 320 eP 25 23.80 -0.2
SPC 79.35 319 eP 25 24.80 -0.5
KSP 80.95 322 eP 25 33.20 -0.3
VAY 81.06 311 iP 25 33.70 -0.5
SKO 81.56 312 iP 25 36.70 -0.2
1.5s 37.00nm 5.2mb
BRG 82.25 322 eP 25 44.50 4.3X
PRU 82.33 322 P 25 41.00 0.3
e 25 48.50
CLL 82.56 323 eP 25 45.00 3.2X
YKA 83.01 23 eP 25 42.70 -1.3
0.9s 8.30nm 4.9mb
MOX 83.65 323 e(P) 25 55.00 7.5X
KBA 84.43 319 e(P) 25 58.00 6.3X
1.1s 5.80nm 4.7mb
RMW 88.88 37 P 26 19.00 5.6X

PNT 88.98 35 eP 26 19.00 5.3X
SES 92.55 31 eP 26 31.00 0.7
FFC 93.17 24 eP 26 33.00 0.0
1.0s 15.00nm 5.4mb
SIV 171.68 19 (PKP) 33 27.00 -0.7
S.D. = 1.0 on 70 of 96 obs.

MAR 02, 1991 19h 14m 55.87± 0.54s
43.949 N ± 4.8km 7.688 E ± 3.4km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
ML 2.0 (GEN).

SAOF 0.10 292 Pg 14 58.41 -0.3
Sg 15 00.44
IMI 0.15 105 P 14 58.98 -0.5
S 15 01.34
AUTN 0.19 284 Pg 14 59.97 -0.3
Sg 15 03.59
AURF 0.27 257 Pg 15 01.38 -0.2
Sg 15 05.69
REVF 0.31 228 Pg 15 03.09 0.7
TOUF 0.32 282 Pg 15 02.59 -0.1
Sg 15 07.83
ENR 0.34 325 P 15 02.98 0.1
S 15 08.00
ROB 0.37 21 P 15 03.90 0.4
S 15 09.33
STV 0.39 319 P 15 04.11 0.1
S 15 09.44
FIN 0.46 55 P 15 05.34 0.2
S 15 11.39
PZZ 0.70 323 P 15 09.54 -0.2
S 15 19.08
S.D. = 0.4 on 11 of 11 obs.

• MAR 02, 1991 19h 42m 09.76± 1.58s
24.018 N ± 8.3km 121.789 E ±14.5km
DEPTH = 10.0km (geophysicist)
TAIWAN (244)

TWD 0.19 289 iPc 42 15.00 1.1
eS 42 18.10
TWC 0.59 5 ePd 42 21.60 -0.1
eS 42 29.70
TWF1 0.80 214 eP 42 25.80 0.5
TWQ 0.91 287 ePc 42 26.10 -1.0
TWZ 1.09 350 eP 42 29.20 -1.1
ANP 1.19 348 eP 42 33.20 1.2
TWK 1.41 238 ePc 42 34.90 -0.6
S.D. = 1.2 on 7 of 7 obs.

% MAR 02, 1991 21h 17m 17.21± 0.87s
46.626 N ± 9.4km 1.082 E ± 6.2km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.1 (LDG).

LSF 0.49 140 Pg 17 26.70 -0.4
Sg 17 33.60
MFF 0.85 269 Pg 17 33.00 -0.5
Sg 17 45.20
TCF 0.85 113 Pg 17 33.00 -0.6
Sg 17 44.20
MAF 1.10 111 Pg 17 37.60 -0.3
Sg 17 52.00
BGF 1.22 93 Pg 17 39.50 -0.4
Sg 17 54.60
RJF 1.36 167 Pg 17 43.40 1.3
Sg 18 01.40
SSF 1.72 74 Pg 17 47.30 0.0
Sg 18 08.70
CAF 1.83 158 Pg 17 52.70 3.7X
Sg 18 16.00
LOR 2.01 70 Pg 17 52.60 1.1
Sg 18 16.80
S.D. = 0.9 on 8 of 9 obs.

& MAR 02, 1991 21h 30m 05.65s
58.803 N 152.200 W
DEPTH = 52.8km
KODIAK ISLAND REGION (13)
<AEIC>.

SYI 0.22 207 iP 30 13.95 -0.5
iS 30 20.47
XLV 0.70 20 eP 30 18.90 -0.7

CDD 0.76 280 eP 30 19.57 -0.9
eS 30 30.79
AUE 0.82 313 iP 30 20.64 -0.6
eS 30 31.57
AUI 0.83 311 eP 30 20.58 -0.7
AUH 0.85 312 eP 30 21.16 -0.6
eS 30 33.44
CNPM 0.88 34 iP 30 21.24 -0.8
eS 30 33.48
HOM 0.90 18 eP 30 21.56 -0.7
eS 30 33.99
MCNL 1.17 290 eP 30 25.27 -0.7
BRLK 1.18 34 eP 30 25.86 -0.2
NNL 1.33 20 eP 30 27.91 -0.2
PDB 1.42 315 eP 30 28.09 -1.4
RED 1.65 350 eP 30 31.41 -1.3
S 30 51.39
RSO 1.69 351 eP 30 32.15 -1.3
eS 30 52.93
RS2 1.69 351 eP 30 32.27 -1.2
eS 30 52.81
REF 1.71 352 eP 30 32.42 -1.3
RDN 1.74 351 eP 30 32.83 -1.2
RDT 1.78 357 eP 30 33.19 -1.4
NCT 1.80 348 eP 30 33.81 -1.1
SEW 1.92 46 eP 30 34.54 -1.9
CKL 2.40 358 eP 30 42.38 -1.0
BGL 2.47 358 eP 30 43.54 -0.8
CRP 2.47 0 eP 30 43.57 -0.9
NCG 2.61 0 eP 30 45.43 -0.9
KNIM 2.75 54 eP 30 46.54 -1.7
SUA 2.77 15 eP 30 47.49 -1.1
PMS 2.78 27 eP 30 47.32 -1.5
SKT 3.21 6 eP 30 53.34 -1.4
KNK 3.22 34 eP 30 52.28 -2.7
GHO 3.40 27 eP 30 55.76 -1.7
VZW 3.63 49 eP 30 57.36 -3.4
CUT 3.74 14 eP 31 00.15 -2.0
32 obs. associated

• MAR 02, 1991 21h 32m 39.64± 1.11s
3.960 S ±11.3km 131.831 E ±20.0km
DEPTH = 33.0km (normal)
4.5mb (4 obs.)
WEST IRIAN REGION (196)

AAI 3.64 274 ePc 33 34.50 -0.5
MTN 8.86 184 eP 34 49.70 1.3
0.3s 77.00nm 6.3mb X
eS 36 27.00
WB2 16.08 171 eP 36 23.70 -1.3
0.2s 3.20nm 4.1mb
iS 39 19.30
WARB 22.65 192 iPc 37 43.00 3.7X
CHTO 39.51 306 eP 40 10.20 1.0
0.7s 1.91nm 4.0mb
GUN 54.42 309 P 42 06.60 0.0
0.7s 9.00nm 4.9mb
PKI 54.63 308 P 42 07.80 -0.3
KKN 54.83 308 P 42 09.40 -0.1
DMN 54.88 308 P 42 10.00 0.1
GKN 55.43 308 P 42 13.60 -0.2
0.8s 12.00nm 5.0mb
S.D. = 0.9 on 9 of 10 obs.

% MAR 02, 1991 22h 20m 50.07± 0.38s
42.077 N ± 3.1km 12.820 E ± 3.8km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

RMP 0.28 198 P 20 56.10 0.1
eSg 21 00.90
MNS 0.32 341 Pc 20 56.70 -0.1
eSg 21 02.00
RDP 0.33 194 P 20 57.00 0.1
eSg 21 02.80
AZI 0.47 101 P 20 59.40 -0.1
eSg 21 07.40
AQU 0.51 57 P 21 00.40 -0.1
eSg 21 09.00
ASS 1.00 353 P 21 09.00 -0.1
eSg 21 24.20
MAO 1.28 286 P 21 13.30 -0.6
DUI 1.29 108 P 21 14.00 -0.1
ARV 1.42 4 P 21 16.40 0.4
eSg 21 34.50
CRE 1.68 338 P 21 20.00 0.3

eSn 21 41.70
RSM 1.87 352 P 21 21.80 -0.5
PGD 1.97 336 P 21 24.10 0.1
SFI 1.98 339 P 21 24.30 0.4
S.D. = 0.3 on 13 of 13 obs.

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* MAR 02, 1991 22h 41m 10.04± 0.53s
21.940 S ±15.3km 174.919 W ±12.9km
DEPTH = 33.0km (normal)
5.1mb (10 obs.) 5.1Msz (3 obs.)
TONGA ISLANDS (173)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 20S, 36C
Centroid Location:
Origin Time 22:41:13.4 0.5
Lat 22.15S 0.06 Lon 174.52W 0.05
Dep 27.5 3.4 Half-duration 1.9
Moment Tensor; Scale 10**17 Nm
Mrr= 1.29 0.05 Mtt= 0.05 0.08
Mff=-1.35 0.08 Mrt= 0.47 0.15
Mrf= 1.06 0.19 Mtf=-0.54 0.06
Principal Axes:
T Val= 1.71 Plg=70 Azm=300
N 0.23 3 201
P -1.95 20 110
Best Double Couple:Mo=1.8*10**17
NP1:Strike=194 Dip=25 Slip= 82
NP2: 22 65 94

SVA 7.30 300 eP 43 02.60 5.5X
AFI 8.53 21 eP 43 07.00 -7.3X
eS 45 00.00
DZM 17.29 266 iPc 45 15.00 4.4X
LTZ 23.38 204 eP 46 20.80 4.2X
RMQ 33.37 255 eP 47 47.00 -0.5
CMS 36.17 246 eP 48 10.00 -1.5
TAU 37.69 227 eP 48 24.00 -0.1
STK 39.80 246 eP 48 50.10 8.2X
0.5s 3.90nm 4.4mb
ASPA 47.01 258 iPc 49 37.10 -3.2X
0.8s 9.90nm 4.9mb
Z 20s 2.70um 5.2Msz
FORR 51.34 247 iPc 50 11.10 -2.5X
WARB 53.15 253 eP 50 25.00 -2.3
KLB 60.06 245 eP 51 14.00 -2.4X
NANU 63.80 255 eP 51 39.50 -2.1
0.4s 11.00nm 5.3mb
SPA 68.19 180 iPd 52 11.90 2.7
0.8s 12.50nm 5.1mb
TNP 80.60 43 eP 53 20.00 -1.2
0.8s 4.41nm 4.5mb
SSE 80.82 309 eP 53 28.00 5.9X
Z 20s 0.90um 5.1Msz
MDJ 83.36 324 eP 53 35.20 0.2
CN2 85.20 321 Pc 53 44.00 -0.3
5.0s 300.00nm 5.8mb X
eS 04 22.00
WHN 85.61 305 eP 53 47.50 0.8
ALQ 86.09 50 eP 53 48.00 -1.2
ANMO 86.09 50 e(P) 53 49.00 -0.2
TIA 86.37 311 eP 53 50.80 0.5
BALM 86.77 15 eP 53 52.00 0.1
BJI 88.94 314 eP 54 03.00 0.4
2.0s 72.00nm 5.7mb
FBA 89.06 11 eP 54 02.00 -0.6
1.0s 17.50nm 5.3mb
TIY 90.38 311 eP 54 10.00 0.5
Z 22s 0.50um 4.9Msz
N 18s 0.80um
XAN 91.29 306 P 54 14.60 0.9
SES 91.36 35 eP 54 13.00 -0.7
RSSD 92.22 43 e(P) 54 17.50 -0.5
HHC 92.42 313 eP 54 20.00 1.2
CHG 93.43 289 eP 54 25.50 1.7
CHTO 93.43 289 eP 54 25.00 1.2
1.0s 8.00nm 5.1mb
INK 94.93 14 eP 54 36.00 6.4X
LZH 95.93 306 eP 54 36.00 0.8
2.3s 64.00nm 5.7mb
YKA 96.63 24 eP 54 37.00 -0.5
0.9s 0.80nm 4.2mb
KRA 149.59 341 ePKP 00 57.30 4.6X
e 01 03.70
KSP 149.85 346 ePKP 00 53.70 0.6
id 00 59.00
CLL 150.04 350 iPKP 00 58.40 5.0X
1.7s 49.00nm
CFR 150.08 326 ePKP 01 08.00 14.4X
SPC 150.26 340 ePKP 01 00.30 6.3X
BRG 150.30 349 iPKP 00 59.20 5.4X
1.7s 46.00nm
i 01 05.20
VRI 150.31 329 ePKPc 01 00.00 6.0X
BBTK 150.47 313 iPKPc 01 05.00 10.4X
BHL 150.59 301 PKP 01 00.00 5.1X
CVO 150.61 329 ePKP 01 08.50 14.0X
MDSJ 150.63 296 PKP 01 01.20 6.2X
HRI 150.68 299 ePKP 01 01.50 6.4X
MOX 150.89 351 ePKP 01 00.00 5.3X
1.6s 40.00nm
ISR 150.93 328 ePKP 01 10.00 15.0X
MLR 150.96 329 ePKPd 01 10.00 14.9X
PRU 151.03 347 PKP 01 01.00 6.1X
e 01 10.00
KFNJ 151.07 296 PKP 01 03.40 7.9X
MKRJ 151.16 296 PKP 01 03.20 7.4X
ENN 151.22 359 ePKP 01 02.00 6.9X
0.8s 12.00nm
DSI 151.37 296 ePKP 01 02.50 6.5X
SNF 151.48 1 PKP 01 03.50 8.0X
DOU 151.90 1 PKP 01 02.50 6.3X
KHC 152.04 348 PKPd 01 03.80 7.3X
1.0s 6.50nm
ZST 152.09 343 ePKP 00 56.10 -0.4
RMN 152.22 294 ePKP 01 04.50 7.1X
KBA 154.04 347 e(PKP)01 11.00 11.4X
e 01 14.00
TRI 155.25 345 ePKP 01 09.00 8.1X
BCAO 158.25 219 ePKPd 01 06.20 0.4
0.8s 14.00nm
i 01 40.90
S.D. = 1.1 on 28 of 63 obs.

MAR 02, 1991 23h 06m 03.76± 0.18s
21.996 S ± 6.9km 175.031 W ± 4.8km
DEPTH = 43.9km (4 depth phases)
5.6mb (32 obs.) 5.0Msz (7 obs.)
TONGA ISLANDS (173)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 22S, 48C
Centroid Location:
Origin Time 23:06: 7.2 0.5
Lat 22.05S 0.06 Lon 174.60W 0.05
Dep 23.1 2.6 Half-duration 2.2
Moment Tensor; Scale 10**17 Nm
Mrr= 1.92 0.07 Mtt=-0.25 0.10
Mff=-1.67 0.10 Mrt= 0.48 0.15
Mrf= 1.51 0.22 Mtf=-0.95 0.08
Principal Axes:
T Val= 2.48 Plg=70 Azm=279
N 0.20 5 23
P -2.68 19 115
Best Double Couple:Mo=2.6*10**17
NP1:Strike=213 Dip=27 Slip= 101
NP2: 21 64 84

SVA 7.24 301 eP 07 53.20 3.5X
AFI 8.62 22 P 08 00.00 -8.9X
eS 10 00.00
RAR 14.21 90 P 09 15.00 -9.2X
S 11 27.00
PVC 16.23 282 iPc 09 55.00 4.7X
DZM 17.18 266 iPc 10 05.60 3.3X
THZ 22.17 204 eP 11 00.70 3.2X
KHZ 22.50 203 eP 11 00.20 -0.5
LTZ 23.28 204 eP 11 10.30 1.9
AFR 24.16 84 iP 11 14.40 -2.6
0.8s 50.00nm 5.1mb
PPN 24.48 84 iP 11 18.00 -2.2
0.8s 50.00nm 5.1mb
TVO 24.59 85 iP 11 19.40 -1.9
0.8s 75.00nm 5.3mb
PMO 26.63 80 eP 11 42.00 1.8
0.8s 25.00nm 4.9mb
BRS 29.69 253 iPc 12 09.00 1.1
RMO 33.25 255 eP 12 38.00 -1.1
e 15 22.00
CMS 36.05 246 eP 13 02.00 -1.1
TOO 37.32 236 eP 13 14.00 0.3
TAU 37.58 227 eP 13 15.00 -0.7
PMG 38.38 283 eP 13 21.00 -1.8
STK 39.68 246 iPd 13 43.00 9.5X
0.7s 8.50nm 4.7mb
QIS 42.18 263 eP 13 53.00 -1.1
e 15 49.50
ASPA 46.89 258 iPc 14 30.00 -2.0
0.7s 56.00nm 5.6mb
Z 19s 3.60um 5.4Msz
ipP 16 04.70 499kmX
iPcS 19 58.00
iS 21 18.10
iScS 24 31.50
WB2 47.14 263 eP 14 31.40 -2.5
0.9s 40.60nm 5.4mb
WRA 47.15 263 eP 14 31.40 -2.6
0.9s 40.60nm 5.4mb
WARB 53.04 253 eP 15 17.50 -1.4
KNA 53.30 266 iPd 15 19.00 -1.9
KLB 59.94 245 eP 16 06.90 -1.2
MEKA 60.13 251 eP 16 07.00 -2.4
MBL 60.14 258 iPd 16 08.00 -1.6
NWAO 60.19 244 eP 16 08.50 -1.2
BAL 60.99 246 eP 16 14.10 -1.1
NANU 63.68 255 iPd 16 32.30 -1.0
0.4s 36.00nm 5.8mb
CGP 66.37 290 eP 16 52.00 1.3
1.0s 5.00nm 4.5mb X
SPA 68.14 180 iPc 17 02.60 1.3
1.0s 40.00nm 5.4mb
KAKJ 71.72 323 P 17 22.50 -0.8
CHJJ 72.27 322 P 17 25.50 -1.1
IIDJ 72.49 321 P 17 26.90 -1.1
MAT 73.07 322 eP 17 30.00 -1.3
0.9s 16.81nm 5.0mb
eS 28 00.00
ADK 73.57 359 iPd 17 33.20 -0.6
0.8s 77.00nm 5.7mb
KUSJ 74.62 331 eP 17 39.00 -1.1
ASAJ 76.36 330 eP 17 50.40 0.4
GCC 77.10 41 eP 17 54.30 0.1
BCH 77.11 43 P 17 54.00 -0.6
PCC 77.17 40 eP 17 54.20 -0.4
SAO 77.26 41 eP 17 55.20 0.0
PRI 77.35 42 eP 17 56.00 0.2
LLA 77.48 42 eP 17 56.70 0.3
MHC 77.51 41 ePc 17 57.20 0.5
ARN 77.58 41 P 17 57.00 0.0
MWC 77.84 45 eP 18 07.00 8.3X
PLM 78.12 47 P 17 59.30 -0.9
RVR 78.15 46 eP 18 12.00 11.8X
SBB 78.27 45 eP 17 58.00 -2.9
ISA 78.44 44 eP 18 02.00 0.2
FRI 78.48 42 ePc 18 01.30 -0.6
CMB 78.72 41 ePc 18 02.80 -0.5
ORV 79.03 39 eP 18 04.50 -0.4
WDC 79.10 38 ePc 18 05.00 -0.2
TPC 79.11 46 eP 18 05.00 -0.5
GSC 79.31 45 eP 18 11.00 4.4X
GLA 79.33 48 eP 18 07.00 0.3
BONR 79.96 42 P 18 10.00 -0.3
TNP 80.71 43 P 18 13.60 -0.6
KVN 80.75 41 P 18 13.80 -0.5
SSE 80.77 309 eP 18 13.00 -1.3
BMW 82.68 33 P 18 24.00 0.0
NJ2 82.97 309 Pd 18 26.00 0.3
Z 22s 0.30um 4.6Msz
PDB 83.26 10 P 18 25.80 -0.8
MDJ 83.34 324 Pc 18 28.20 0.8
1.2s 100.00nm 5.8mb
LON 83.59 34 P 18 28.00 -0.6
RMW 84.06 33 P 18 30.50 -0.5
MSU 84.19 45 P 18 32.00 -0.1
SVW 84.28 9 ePc 18 31.70 -0.1
1.1s 12.70nm 4.9mb
SNY 85.14 319 Pd 18 37.00 0.6
CN2 85.18 321 Pc 18 37.00 0.4
4.0s 500.00nm 6.0mb X
Z 15s 0.60um 5.1MszX
WHN 85.56 305 eP 18 39.50 0.7
PMR 85.86 12 ePc 18 39.30 -0.3
1.5s 99.20nm 5.8mb
TTA 85.97 9 ePc 18 40.90 0.7
1.3s 78.30nm 5.8mb
IPM 86.10 276 ePc 18 42.90 1.0
0.8s 29.70nm 5.6mb
ALQ 86.20 50 eP 18 42.00 -0.2
1.0s 35.00nm 5.5mb
Z 18s 0.76um 5.1Msz
e 18 55.00 43km

02d 23h

ANMO	86.21	50	P	18	42.20	0.0			1.0s	9.10nm					GRR	153.26	9	ePKP	25	58.50	8.0X
	0.8s	93.28nm			6.1mb		EDR	144.69	7	ePKPc	25	37.20	0.3			0.9s	29.50nm				
			pP	18	54.00	38km	ELO	144.98	8	ePKPc	25	37.10	-0.4		DST	153.27	316	ePKP	25	57.00	6.1X
PNT	86.38	33	iPc	18	43.00	0.5			0.9s	133.00nm					CDF	153.58	357	ePKP	25	59.40	8.3X
	1.0s	46.00nm			5.7mb		EDU	144.99	8	ePKPc	25	38.10	0.6			1.0s	20.00nm				
TOA	86.92	13	ePc	18	45.60	0.7			0.9s	146.00nm					LPF	153.58	9	ePKP	25	59.30	8.4X
SNG	87.45	279	iPd	19	05.00	16.6X	AAE	145.07	254	ePKP	25	40.50	1.2			0.9s	49.15nm				
	1.0s	100.00nm					EBH	145.22	8	ePKPc	25	37.80	-0.1		BEO	153.91	334	ePKP	25	51.50	0.0
LRM	88.13	38	eP	18	51.10	-0.2			0.9s	98.00nm					HAU	154.03	358	ePKP	26	00.40	8.8X
BW06	88.19	42	P	18	50.00	-1.6	MUD	145.44	356	iPKPd	25	38.10	-0.1			0.8s	6.70nm				
BJI	88.90	314	eP	18	55.50	0.7			1.2s	138.00nm					KBA	154.08	347	iPKPd	25	52.50	0.6
	2.0s	200.00nm			6.1mb		EAU	145.62	8	ePKPc	25	39.40	0.8			1.3s	13.80nm				
FBA	89.13	11	ePc	18	55.30	-0.1	EBL	145.74	8	ePKPc	25	39.70	0.9				e	26	11.00		
	1.1s	47.40nm			5.7mb		COP	145.90	352	iPKPd	25	40.50	1.5				i	26	20.50		
IMA	89.28	9	ePc	18	56.50	0.3			0.8s	155.22nm								e	29	46.00		
	1.0s	17.40nm			5.3mb		BSD	146.10	350	iPKPd	25	42.10	2.8X		BSF	154.18	357	ePKP	26	00.50	8.6X
GOL	89.31	46	P	18	56.00	-1.1			1.2s	165.00nm						0.9s	9.85nm				
GYA	89.79	299	P	19	01.80	2.3	EKA	146.16	8	PKP	25	40.00	0.5		EZN	154.58	319	ePKP	26	01.70	9.2X
NNT	90.31	283	iPd	19	05.00	3.1X			1.8s	102.90nm					LJU	154.78	344	ePKP	25	53.00	0.4
TIY	90.34	311	Pc	19	03.00	1.3	KAS	149.02	315	ePKP	25	50.40	5.8X		VOY	154.94	345	ePKP	25	53.40	0.4
Z	30s	0.60um			4.8MszX		WIT	149.21	358	ePKP	25	50.00	5.6X		VBY	155.08	343	iPKPd	25	54.30	1.3
N	14s	0.30um					KRA	149.61	341	ePKP	25	45.30	0.2		CEY	155.09	344	ePKP	25	53.50	0.4
LOE	90.37	289	eP	19	04.00	1.9				e	25	50.10			TRI	155.28	345	ePKP	25	53.00	-0.3
XAN	91.24	306	Pc	19	07.00	1.1	KSP	149.87	346	ePKP	25	45.80	0.3				e	26	18.10		
	1.4s	100.00nm			6.0mb			1.1s	83.00nm						CTI	155.40	349	PKP	25	53.10	-0.5
SES	91.47	35	ePc	19	06.20	-0.3				ic	25	51.10			DHLJ	155.63	296	PKPc	25	55.01	0.8
	1.2s	61.00nm			5.9mb		WTS	150.02	358	ePKPc	25	51.00	5.4X		VAY	155.68	326	iPKP	25	53.00	-1.0
EDM	91.88	32	eP	19	08.50	0.2			1.0s	70.00nm								i	26	22.00		
RSSD	92.33	43	P	19	10.00	-0.9	CLL	150.08	350	ePKP	25	46.00	0.3		SKO	155.75	329	iPKP	25	54.60	0.5
	1.0s	24.40nm			5.6mb			1.4s	135.00nm							1.5s	42.00nm				
HHC	92.38	313	Pc	19	12.00	1.0				i	25	51.20						i	26	04.20		
KMI	92.49	296	Pc	19	14.50	2.5	SPC	150.28	340	ePKP	25	46.10	-0.3					i	26	22.30		
	2.0s	150.00nm			6.1mb					i	25	51.20			VAI	155.99	353	PKP	25	51.30	-2.9X
			pP	19	29.00	49km				e	29	22.70			OHR	156.72	329	iPKP	25	54.50	-1.0
BDT	92.71	287	eP	19	12.10	-0.7	VRI	150.30	328	ePKPc	25	51.50	5.2X		SFI	157.40	347	PKP	25	57.40	1.3
BTO	93.32	313	eP	19	16.40	1.0	BRG	150.33	348	iPKP	25	46.60	0.5		SBF	158.10	355	ePKP	25	58.70	1.6
CHG	93.35	289	iPc	19	17.80	2.0				i	25	52.00				0.9s	13.10nm				
	1.0s	31.25nm			5.7mb					i	26	00.00			BCAO	158.14	219	iPKPd	25	58.90	1.0
CHTO	93.35	289	iP	19	17.70	1.9				i	26	05.20				0.6s	45.00nm				
	0.9s	23.44nm			5.6mb		BBTK	150.43	313	iPKPc	25	52.50	5.7X					i	26	33.00		
CD2	93.93	302	eP	19	19.90	1.6				i	26	00.00						i	30	19.80		
INK	95.01	14	eP	19	21.50	-0.9	BHL	150.53	300	PKP	25	52.50	5.4X		FRF	158.45	357	ePKP	25	58.30	0.9
			pP	19	35.00	45km	MDSJ	150.56	296	PKPc	25	53.35	6.1X		EPF	158.67	9	ePKP	25	59.40	1.7
LZH	95.88	306	Pc	19	28.00	0.7	HRI	150.62	299	ePKP	25	48.00	0.7		LMR	158.68	357	ePKP	25	58.70	1.1
	2.0s	69.00nm			5.8mb		QTRJ	150.83	295	PKPc	25	53.93	6.3X		TOL	160.59	21	ePKP	26	02.00	2.2X
Z	20s	0.29um			4.8Msz		ISR	150.92	328	ePKPc	26	02.50	15.2X		LIC	161.58	147	PKP	26	02.04	0.5
		sP	19	43.00			MOX	150.93	351	ePKP	25	47.00	-0.1		KIC	161.84	147	PKP	26	02.32	0.5
YKA	96.73	24	eP	19	28.80	-1.5	MLR	150.96	329	ePKPc	25	56.00	8.5X			1.1s	24.00nm				
	1.0s	3.70nm			4.9mb		SALJ	150.96	297	PKPc	25	54.30	6.5X		TIC	161.94	146	PKP	26	02.48	0.6
CNCB	98.84	112	P	19	45.00	3.4X	MASJ	150.99	296	PKPc	25	54.27	6.4X			1.0s	22.00nm				
LPB	98.86	112	(P)	19	48.00	6.5X	BNS	151.04	357	iPKPc	25	53.00	5.8X		MAL	163.21	27	ePKP	26	03.00	0.5
			LR	27	40.00			1.1s	103.00nm									i	26	54.30		
ZOBO	98.95	112	eP	19	44.00	1.9	PRU	151.06	347	PKP	25	47.50	0.2		LKO	164.00	139	PKPc	26	04.20	0.3
Z	18s	0.49um			5.0Msz			1.0s	53.50nm							1.1s	34.50nm				
		LR	27	50.00						i	25	53.50				S.D. = 1.1	on 156 of 219 obs.				
GTA	100.06	308	ePdiff	19	47.20	1.0	MKRJ	151.09	296	PKPc	25	54.34	6.3X		---						
	1.4s	20.00nm			5.5mb		UCC	151.25	1	PKP	25	54.60	7.1X		%	MAR 03, 1991		00h 35m 43.87± 0.82s			
Z	20s	0.06um			4.1Msz					e	26	03.00				42.530 N ± 6.6km		13.249 E ± 8.9km			
GUN	107.65	294	Pdiff	20	28.80	8.3X	JVI	151.25	297	ePKP	25	49.50	1.3			DEPTH = 10.0km		(geophysicist)			
GUN	107.65	294	PKP	24	28.20	-0.4	ENN	151.27	359	iPKPc	25	54.30	6.8X			CENTRAL ITALY					(381)
PKI	107.96	293	Pdiff	20	30.00	8.1X		1.0s	74.00nm												
PKI	107.96	293	PKP	24	28.40	-0.8				e	26	08.00			AQU	0.21	147	P	35	48.50	0.0
KKN	108.12	293	Pdiff	20	30.00	7.5X	PSZ	151.49	339	ePKP	25	50.00	1.9X					eSg	35	52.60		
KKN	108.12	293	PKP	24	28.80	-0.6	SNF	151.54	1	PKPc	25	54.60	6.7X		MNS	0.45	251	P	35	52.80	-0.2
DMN	108.22	293	Pdiff	20	30.20	7.2X	CMP	151.55	329	ePKPc	25	54.00	5.8X					eSg	36	01.10		
DMN	108.22	293	PKP	24	29.10	-0.5	GRF	151.92	351	ePKP	25	49.30	0.7		ASS	0.69	322	P	35	57.60	0.0
GKN	108.73	293	Pdiff	20	31.80	6.7X	Z	20s	0.40um				5.2Msz					eSg	36	07.40		
GKN	108.73	293	PKP	24	29.20	-1.2				ic	25	56.20			ARV	0.99	347	P	36	02.30	-0.4
GBA	111.03	277	PKPc	24	34.10	-0.7				e	26	04.80						eSg	36	18.50		
	0.3s	1.00nm					HRT	151.93	318	ePKP	25	56.00	7.1X		CRE	1.45	320	P	36	10.30	0.1
DAG	123.92	6	iPKPc	24	56.60	-1.2	DOU	151.96	1	PKPc	25	55.80	7.2X		SFI	1.72	324	P	36	14.50	0.5
	1.0s	8.00nm						1.0s	97.20nm							S.D. = 0.4	on 6 of 6 obs.				
QUE	124.32	292	ePKP	25	01.60	1.4	KHC	152.07	348	PKPd	25	49.70	0.8		---						
PDCR	124.79	124	ePKP	25	01.00	-0.2				i	25	56.30			%	MAR 03, 1991		02h 47m 59.73± 0.81s			
SOB1	125.37	120	ePKP	25	02.20	-0.2				e	26	05.80				43.477 N ± 7.2km		12.576 E ± 7.1km			
KEV	130.43	350	ePKP	25	11.00	0.6	ABH	152.10	356	ePKP	25	55.94	7.1X			DEPTH = 10.0km		(geophysicist)			
BUL	132.17	211	ePKP	25	16.00	0.6	ZST	152.11	343	ePKP	25	48.90	0.0			CENTRAL ITALY					(381)
SOD	132.62	349	ePKP	25	11.00	-3.6X				i	25	56.20									
KAF	137.32	345	ePKP	25	20.00	-3.7X				e	26	06.20			ARV	0.27	85	P	48	05.00	-0.4
NUR	139.11	345	ePKP	25	27.00	0.0	RMN	152.15	294	ePKP	25	51.00	1.4					eSg	48	09.20		
	1.0s	38.00nm					BUD	152.16	339	e(PKP)	25	56.00	7.0X		ASS	0.41	171	P	48	08.50	0.3
NAO	140.99	355	PKP	25	22.80	-7.6X	YLV	152.26	317	ePKP	25	55.00	5.5X					eSg	48	15.50		
	1.0s	10.80nm					FLN	152.94	8	ePKP	25	57.60	7.6X		RSM	0.46	349	P	48	09.80	0.7
UPP	141.12	350	iPKP	25	25.50	-5.1X		0.9s	32.75nm									eSg	48	16.00		
TAB	141.12	304	ePKP	25	25.00	-6.6X	KCT	153.08	318	ePKP	25	58.00	7.5X		CRE	0.48	289	P	48	09.40	-0.1
NAI	141.27	237	ePKP	25	29.00	-3.6X	LDF	153.15	7	ePKP	25	58.00	7.7X					eSg	48	16.40		
HFS	141.40	353	ePKP	25	23.20	-8.0X		0.9s	26.20nm						SFI	0.69	310	P	48	12.70	-0.6

		eSg	48	23.60	
S.D. = 0.8		on	5	of 5	obs.

? MAR 03, 1991 03h 02m 44.54± 5.57s
38.908 N ±40.4km 23.192 E ±22.1km
DEPTH = 5.0km (geophysicist)
GREECE (364)
MD 2.7 (THE).

AGG	0.68	280	eP	02 58.00	-0.2
			iS	03 09.70	
PAIG	1.09	20	ePd	03 05.00	-0.4
LIT	1.31	336	iPd	03 09.05	-0.2
			iS	03 32.60	
THE	1.73	354	ePd	03 16.92	1.5
GRG	2.13	344	ePd	03 20.24	-1.1
KNT	2.26	354	ePd	03 22.90	-0.3
FNA	2.34	324	ePd	03 24.80	0.5
OHR	2.87	321	e(Pn)	03 37.30	5.5X
S.D. = 1.0			on	7 of 8	obs.

% MAR 03, 1991 03h 25m 20.58± 1.40s
42.755 N ± 9.0km 12.109 E ±11.1km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ASS	0.51	52	P	25 30.60	-0.4
			eSg	25 37.20	
MNS	0.56	131	P	25 32.00	0.0
			eSg	25 41.50	
CRE	0.88	353	P	25 37.20	-0.3
			eSg	25 48.90	
ARV	0.96	39	P	25 39.50	0.6
			iSg	25 51.90	
PGD	1.15	346	P	25 42.60	0.3
			eSn	25 57.30	
SFI	1.18	351	P	25 42.40	-0.2
			eSn	25 58.00	
S.D. = 0.5			on	6 of 6	obs.

% MAR 03, 1991 04h 06m 47.06± 0.77s
42.446 N ± 6.4km 19.375 E ± 5.8km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.6 (TTG).

TTG	0.09	259	iPgc	06 50.73	1.2
			iSg	06 53.88	
BDV	0.44	248	iPgd	06 55.60	-0.4
			iSg	07 03.27	
NKY	0.46	323	iPgc	06 56.50	0.0
			iSg	07 04.73	
PVY	0.47	71	iPgc	06 56.48	-0.1
			iSg	07 04.50	
ULC	0.49	191	iPgc	06 57.05	0.0
			iSg	07 03.47	
HCY	0.65	270	ePg	06 59.22	-0.8
			iSg	07 09.93	
BRY	0.76	307	iPgd	07 02.13	0.1
			iSg	07 14.48	
S.D. = 0.7			on	7 of 7	obs.

? MAR 03, 1991 04h 19m 53.56± 0.98s
44.370 N ±10.4km 7.359 E ± 8.7km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.5 (GEN).

STV	0.13	191	P	19 56.80	0.0
			S	19 58.52	
ENR	0.15	163	P	19 57.09	0.0
			S	19 59.21	
PZZ	0.23	306	P	19 58.54	0.0
			S	20 01.60	
ROB	0.37	101	P	20 01.29	0.0
			S	20 06.59	
S.D. = 0.1			on	4 of 4	obs.

MAR 03, 1991 04h 23m 37.45± 0.37s
42.691 N ± 2.8km 13.022 E ± 4.3km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)
MD 2.9 (SSO).

MNS	0.40	220	Pc	23 45.40	-0.2
			eSg	23 51.50	
ALP	0.42	77	iPg	23 45.48	-0.5
			iSg	23 50.95	
AOU	0.44	140	P	23 45.90	-0.5
			eSg	23 52.20	
ASS	0.46	325	P	23 46.60	-0.3
			eSg	23 53.70	
CIO	0.51	10	iPg	23 47.11	-0.7
			iSg	23 54.97	
SSO	0.67	26	e(Pg)	23 52.16	1.4
			eSg	24 02.49	
AZI	0.77	156	P	23 52.80	0.4
ARV	0.81	356	P	23 52.80	-0.4
			eSg	24 05.10	
RMP	0.91	195	P	23 55.30	0.4
			eSg	24 08.70	
AOI	0.96	26	e(Pg)	23 55.96	0.3
			e(Sg)	24 11.40	
RDP	0.96	194	P	23 55.60	-0.1
			eSg	24 10.50	
CRE	1.22	320	P	24 00.00	-0.2
			eSn	24 17.00	
RSM	1.30	342	P	24 01.40	-0.1
SFI	1.50	326	P	24 05.20	0.9
PGD	1.52	322	P	24 04.50	-0.3
S.D. = 0.6			on	15 of 15	obs.

• MAR 03, 1991 04h 36m 44.68± 1.10s
23.879 N ± 8.8km 121.914 E ±11.4km
DEPTH = 10.0km (geophysicist)
4.2mb (3 obs.)
TAIWAN (244)

TWD	0.35	305	iPc	36 51.00	-1.0
			eS	36 54.40	
TWC	0.73	355	ePc	37 00.70	1.7
			eS	37 11.60	
TWF1	0.77	227	ePc	36 59.10	-0.6
			eS	37 08.70	
TWZ	1.25	346	eP	37 09.50	1.6
ANP	1.35	345	eP	37 13.50	3.9X
			eS	37 29.80	
OZH	3.21	290	Pn	37 34.00	-2.1
SSE	7.22	355	P	38 31.60	-1.2
Z	12s		0.90um		
			pP	38 36.00	
			eS	39 50.00	
GZH	7.91	266	eP	38 45.00	2.5
NJ2	8.58	342	eP	38 48.00	-3.8X
			eS	40 23.00	
GYA	14.05	284	P	40 07.20	1.1
Z	10s		1.00um		
CD2	17.57	297	eP	40 54.70	3.4X
LZH	19.79	312	eP	41 18.00	-0.2
	2.2s		33.00nm	4.3mb	
Z	10s		0.59um		
CN2	20.08	7	eP	41 19.50	-1.6
Z	10s		1.00um	4.5MszX	
N	10s		0.50um		
E	10s		0.30um		
GTA	24.27	315	eP	42 02.20	-1.0
WB2	45.21	163	eP	45 04.50	0.6
	0.6s		1.80nm	4.2mb	
YKA	82.99	23	eP	49 11.10	0.0
	0.7s		1.20nm	4.2mb	
S.D. = 1.5			on	13 of 16	obs.

• MAR 03, 1991 06h 00m 16.20± 0.64s
22.536 S ±16.8km 174.699 W ±11.2km
DEPTH = 33.0km (normal)
5.0mb (11 obs.) 4.8Msz (1 obs.)
TONGA ISLANDS REGION (174)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 27C
Centroid Location:
Origin Time 06:00:16.9 1.1
Lat 22.72S 0.13 Lon 174.14W 0.10
Dep 15.0 FIX Half-duration 1.5
Moment Tensor; Scale 10**16 Nm
Mrr= 6.53 0.47 Mtt=-0.30 0.76
Mff=-6.24 0.71 Mrt= 0.55 1.82
Mrf= 0.03 2.11 Mtf=-2.42 0.48
Principal Axes:

	Val=	Plg=	Azm=
T	6.58	85	9
N	0.52	5	200
P	-7.10	1	110

Best Double Couple:Mo=6.8*10**16
NP1:Strike=195 Dip=44 Slip= 83

NP2:			24	46	97
SVA	7.78	303	ePd	02 11.10	1.1
DZM	17.46	268	iPc	04 22.10	3.2X
STK	39.75	247	eP	07 56.90	9.3X
	1.1s		2.10nm	3.8mb X	
ASPA	47.08	258	iPc	08 45.90	-1.1
	0.9s		12.50nm	4.9mb	
Z	18s		1.00um	4.8Msz	
WB2	47.38	263	iPd	08 47.70	-1.7
	0.7s		14.70nm	5.1mb	
WRA	47.39	263	iPd	08 47.70	-1.8
	0.7s		14.70nm	5.1mb	
SPA	67.60	180	eP	11 13.00	1.3
	1.1s		17.86nm	5.1mb	
TNP	80.90	42	P	12 29.00	0.1
KVN	80.95	41	P	12 30.00	0.9
MDJ	83.96	324	eP	12 44.50	0.3
RSO	84.61	11	e(P)	12 55.00	7.6X
SLKM	85.11	12	e(P)	12 48.50	-1.2
CN2	85.79	321	P	12 53.00	-0.4
ALQ	86.31	50	eP	12 56.00	-0.5
	1.0s		7.25nm	4.9mb	
			e	13 07.30	
ANMO	86.32	50	e(P)	12 56.50	0.0
	1.0s		7.50nm	4.9mb	
PMR	86.32	12	P	12 54.50	-1.1
	1.0s		8.13nm	4.9mb	
PNT	86.66	33	eP	12 58.00	0.4
	0.8s		8.00nm	5.0mb	
TIA	86.91	311	eP	12 59.00	-0.1
FBA	89.60	11	eP	13 09.60	-1.7
	1.5s		37.84nm	5.5mb	
TIY	90.92	311	eP	13 18.40	0.3
SES	91.73	35	eP	13 31.00	9.5X
XAN	91.81	306	P	13 22.60	0.4
HHC	92.97	313	eP	13 28.40	0.9
CHG	93.81	289	eP	13 33.50	1.8
CHTO	93.81	289	eP	13 33.90	2.2
	1.0s		7.00nm	5.0mb	
YKA	97.09	24	eP	13 52.40	6.7X
	0.7s		0.40nm	4.1mb	
KRA	150.22	341	ePKP	20 05.10	5.3X
			e	20 18.00	
KSP	150.47	346	ePKPc	20 06.60	6.4X
WTS	150.57	358	ePKP	20 06.50	6.3X
	1.0s		12.00nm		
			e	20 18.00	
CLL	150.66	350	iPKPd	20 06.90	6.5X
	1.4s		20.00nm		
BRG	150.92	349	iPKP	20 07.80	6.9X
	1.0s		20.00nm		
			i	20 19.00	
BBTK	151.02	313	ePKP	20 09.00	7.5X
MOX	151.51	352	ePKP	20 09.00	7.2X
PRU	151.65	347	ePKP	20 09.50	7.5X
GRF	152.50	352	e(PKP)	20 11.00	7.8X
KHC	152.66	348	PKP	20 12.20	8.7X
			e	20 21.50	
S.D. = 1.2			on	21 of 36	obs.

• MAR 03, 1991 06h 12m 52.38± 2.02s
38.551 N ±19.4km 31.336 E ±11.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ALT	1.08	298	iPn	13 12.00	-0.8
KHL	1.44	261	ePn	13 19.10	0.5
BBTK	1.70	40	eP	13 22.00	-0.3
			iS	13 46.00	
GPA	1.91	336	ePn	13 28.00	2.7X
IZI	2.29	322	ePn	13 31.40	0.5
DST	2.36	297	ePn	13 31.00	-0.8
YLV	2.52	324	ePn	13 35.00	0.9
S.D. = 0.9			on	6 of 7	obs.

? MAR 03, 1991 06h 44m 22.43± 5.05s
11.704 N ±48.3km 68.523 W ±12.7km
DEPTH = 33.0km (normal)
NEAR COAST OF VENEZUELA (97)

MORO	0.85	166	eP	44 38.10	0.0
			eS	44 53.40	
GUAC	1.94	141	iP	44 52.60	-1.3
			iS	45 17.60	
CAR	1.97	127	eP	44 57.60	3.4X
PLAV	2.08	151	iP	44 56.30	0.4

03d 06h

LLAV	2.08	126	eP	44 57.80	2.0	
			iS	45 18.60		
TOV	2.28	213	ePn	44 58.90	0.4	
GUAN	3.31	121	eP	45 11.90	-1.5	
			eS	45 52.90		
SDV	3.49	217	iPnc	45 15.50	-0.4	
			iSn	45 59.10		

S.D. = 1.4 on 7 of 8 abs.

• MAR 03, 1991 07h 43m 21.21± 0.70s
12.318 S ±14.6km 73.454 W ± 8.4km
DEPTH = 33.0km (normal)
3.7mb (1 abs.)
PERU (116)

NNA	3.33	275	iPd	44 12.00	-0.3	
	0.8s		38.81nm			
			eS	44 51.50		
PT10	3.45	274	eP	44 13.50	-0.4	
			eS	45 00.00		
ARE	4.54	155	eP	44 30.00	0.3	
			e	44 45.00		
ZOBO	6.49	128	iP	45 00.00	2.5X	
	0.7s		25.51nm		5.1mb X	
Z	17s		0.90um		4.8Msz	
			S	46 54.00		
			LR	47 22.00		
LPB	6.67	130	P	45 00.80	0.9	
	1.0s		90.00nm		5.6mb X	
			i	45 24.00		
			S	57 02.80		
			LR	57 28.00		
CNCB	6.93	131	P	45 06.40	2.8X	
			S	47 12.00		
CCH	8.68	126	P	45 27.50	-0.3	
SIV	12.55	108	P	46 19.00	-1.4	
KIC	70.77	79	P	54 37.00	0.1	
YKA	81.15	342	eP	55 35.50	1.0	
	0.6s		0.50nm		3.7mb	

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

MAR 03, 1991 08h 39m 26.48± 0.27s
40.623 N ± 2.6km 29.017 E ± 2.4km
DEPTH = 21.0 ± 2.4 km
4.5mb (35 obs.)
TURKEY (366)
Felt at Istonbul.

YLV	0.28	102	iPg	39 32.50	-0.5	
GBZT	0.36	63	iPgc	39 34.10	-0.2	
ISK	0.44	4	iPg	39 36.00	0.5	
IZI	0.45	129	iPg	39 35.80	0.0	
ITU	0.48	360	iPgc	39 36.00	-0.2	
HRT	0.53	68	iPg	39 36.80	-0.3	
KCT	0.63	234	iPg	39 38.30	-0.4	
BNT	0.88	253	iPn	39 42.80	-0.1	
EDC	0.92	253	iPn	39 44.00	0.3	
GPA	1.04	108	iPn	39 47.00	1.3	
DST	1.06	196	iPn	39 46.80	0.8	
DMK	1.53	322	iPn	39 53.30	0.6	
ALN	2.27	278	ePd	40 02.90	-0.6	
KHL	2.33	170	iPn	40 03.90	-0.5	
PRK	2.52	238	ePn	40 07.20	0.2	
JMB	2.59	316	eP	40 08.00	-0.1	
IZM	2.60	212	iPn	40 07.80	-0.5	
RDO	2.69	282	ePn	40 09.00	-0.4	
KDZ	2.91	292	iPd	40 13.00	0.5	
BBTK	2.97	104	eP	40 14.50	1.0	
			iS	41 04.00		
DIM	2.99	300	iP	40 14.00	0.5	
CIN	3.10	194	ePn	40 15.00	-0.3	
PSN	3.12	349	iPc	40 16.00	0.5	
BCK	3.39	158	iPn	40 19.40	0.0	
RZN	3.42	290	iPd	40 19.00	-0.9	
			eS	40 59.00		
YER	3.53	190	iPn	40 21.60	0.2	
PLD	3.57	296	iPd	40 22.00	0.1	
KAS	3.67	77	ePn	40 24.20	0.8	
			iSg	41 20.00		
ELL	3.93	170	iPn	40 28.30	1.2	
MMB	4.11	285	eP	40 30.00	0.4	
PGB	4.12	299	iPd	40 29.00	-0.7	
			iSg	41 34.00		
SRS	4.14	279	ePd	40 29.32	-0.7	
SOH	4.31	274	ePd	40 47.10	14.7X	
BUC	4.36	331	eP	40 38.00	5.0X	
CFR	4.60	352	eP	40 36.00	-0.5	
KKB	4.64	287	iPd	40 36.00	-1.2	
KNT	4.67	279	ePd	40 37.28	-0.3	
VTS	4.78	296	iPd	40 39.00	-0.2	
			iS	41 31.00		
ISR	4.86	339	eP	40 49.00	8.7X	
ATH	4.89	239	ePg	41 05.00	24.4X	
VAY	4.93	280	iPn	40 41.30	0.1	
			i	40 46.00		
			i	40 49.80		
			i	41 04.60		
			iSn	42 04.20		
			Lg	42 22.60		
LIT	5.01	266	ePd	41 00.10	17.7X	
GRG	5.03	276	ePd	40 49.92	7.2X	
MLR	5.36	336	iPc	40 57.00	9.6X	
AGG	5.39	255	ePd	40 58.00	10.2X	
MTUR	5.44	329	ePc	40 58.00	9.6X	
CMP	5.48	329	iPd	40 50.00	1.0	
KZN	5.54	269	ePn	40 49.00	-0.9	
FNA	5.81	274	ePd	40 59.10	5.4X	
SKO	5.86	286	iP	40 54.50	0.1	
N	11s		5.65um			
			iPg	41 25.00		
			i	42 03.50		
			iSn	42 10.00		
			i	42 22.80		
			iSb	42 33.00		
			Lg	43 10.00		
			LR	43 33.00		
NPS	5.99	208	ePn	40 57.00	0.9	
TNR	6.11	327	eP	40 58.00	0.2	
VLI	6.15	233	ePn	40 57.00	-1.4	
OHR	6.25	277	ePn	41 00.30	0.4	
			Lg	43 10.20		
CSS	6.60	148	eP	41 03.50	-1.3	
GZR	6.61	318	eP	41 01.00	-3.9X	
IAS	6.65	351	eP	41 07.00	1.6	
DEV	6.89	322	ePd	41 10.00	1.2	
BZS	7.36	315	ePc	41 18.50	3.1X	
BEO	7.57	306	ePn	41 15.70	-2.6	
			eSg	43 30.00		
BMR	8.09	332	iPc	41 42.00	16.5X	
CEI	8.49	328	eP	42 10.00	39.0X	
PSZ	9.79	321	eP	42 11.20	22.0X	
SPC	10.58	327	eP	42 02.50	2.5	
VBY	11.18	300	eP	42 07.00	-1.2	
			e(S)	46 00.90		
KRA	11.38	329	eP	42 10.00	-0.8	
			e	42 21.50		
ZST	11.39	316	eP	42 10.90	0.0	
CEY	11.81	300	e(P)	42 17.00	0.3	
AOI	11.82	289	eP	42 16.33	-0.6	
LJU	11.85	302	eP	42 15.50	-1.7	
			e(S)	45 13.00		
CIO	12.10	287	eP	42 18.75	-2.0	
TRI	12.24	300	eP	42 27.50	5.1X	
VOY	12.26	301	e(P)	42 22.00	-0.9	
ARV	12.29	289	P	42 22.90	-0.3	
KBA	13.01	305	e(P)	42 33.00	0.1	
	1.4s		10.40nm		4.8mb	
CRE	13.02	289	P	42 35.10	2.1	
SFI	13.13	290	P	42 33.80	-0.5	
FVI	13.18	302	P	42 34.50	-0.5	
PGD	13.22	290	P	42 34.90	-0.8	
MAO	13.51	283	P	42 49.40	10.1X	
KSP	13.52	323	eP	42 39.20	-0.2	
CTI	13.75	299	P	42 38.60	-3.9X	
PRU	13.81	317	eP	42 51.50	8.2X	
KHC	13.84	313	iPc	42 43.10	-0.6	
	1.4s		15.00nm		4.6mb	
MME	13.99	291	P	42 46.80	0.9	
BRG	14.66	319	eP	42 54.00	-0.3	
	1.6s		27.00nm		4.5mb	
			i	43 01.00		
OSS	14.93	300	ePc	43 06.40	8.3X	
BOB	14.97	293	P	43 05.20	6.7X	
MDI	14.98	296	P	43 02.90	4.3X	
PGF	15.10	284	eP	43 05.00	4.7X	
	1.4s		47.90nm		4.6mb	
CLL	15.40	319	iP	43 03.50	-0.4	
	1.5s		24.00nm		4.2mb	
SAX	15.62	302	ePc	43 12.10	4.9X	
VAI	15.64	296	P	43 09.10	1.9	
MOX	15.73	315	e(P)	43 09.00	0.7	
LLS	15.74	300	ePc	43 13.90	5.3X	
ORO	16.14	295	P	43 15.40	1.7	
SBF	16.30	289	eP	43 18.70	3.0X	
	1.0s		28.00nm		4.3mb	
DIX	16.62	296	ePc	43 23.00	3.1X	
FEL	16.67	303	eP	43 23.97	3.5X	
FRF	16.85	287	eP	43 26.40	3.8X	
	1.4s		30.50nm		4.2mb	
EMS	16.94	296	ePc	43 25.80	1.9	
LMR	16.95	287	eP	43 26.00	2.2	
	1.4s		30.50nm		4.2mb	
BNI	16.96	293	P	43 27.20	3.1X	
LPG	16.97	294	eP	43 26.70	2.3	
	1.4s		69.70nm		4.6mb	
LPL	16.98	294	eP	43 27.00	2.5	
	1.2s		23.80nm		4.2mb	
LRG	17.06	287	eP	43 27.30	2.1	
	1.4s		52.30nm		4.5mb	
RSL	17.09	295	P	43 26.67	1.0	
CDF	17.31	304	eP	43 30.00	1.6	
	1.4s		87.15nm		4.7mb	
BSF	17.45	302	eP	43 30.30	0.2	
	1.4s		26.15nm		4.2mb	
HAU	17.78	302	eP	43 34.50	0.3	
ENN	18.98	310	eP	43 51.00	2.2	
	0.9s		23.00nm		4.4mb	
			e	43 58.00		
WTS	19.01	314	eP	43 50.00	0.8	
	1.0s		17.00nm		4.2mb	
LBF	19.11	298	eP	43 49.40	-1.2	
	1.6s		55.95nm		4.6mb	
SMF	19.15	297	eP	43 49.60	-1.4	
	1.6s		99.50nm		4.8mb	
LOR	19.25	299	eP	43 50.50	-1.6	
	1.4s		65.35nm		4.7mb	
AVF	19.50	297	eP	43 53.80	-1.3	
	1.5s		88.80nm		4.8mb	
DOU	19.52	307	P	43 55.80	0.5	
	0.7s		7.80nm		4.1mb	
			Rg	52 29.00		
BGF	19.81	296	eP	43 55.70	-2.8X	
	1.0s		28.00nm		4.5mb	
SNF	19.85	308	Pc	43 59.00	0.2	
MAF	19.96	295	eP	43 58.80	-1.3	
	1.4s		34.85nm		4.5mb	
NUR	20.09	354	eP	43 59.00	-2.3	
	1.0s		28.00nm		4.6mb	
			i	44 13.30		
CAF	20.21	291	eP	44 02.10	-0.6	
	1.4s		39.20nm		4.6mb	
TCF	20.22	295	eP	44 01.70	-1.0	
	1.2s		29.75nm		4.5mb	
UPP	20.53	343	iP	44 10.00	4.2X	
RJF	20.61	292	eP	44 06.80	0.0	
	1.7s		88.25nm		4.9mb	
LPO	20.82	290	eP	44 08.10	-0.9	
LFF	21.15	291	eP	44 13.10	0.8	
	1.7s		88.25nm		4.9mb	
KAF	21.58	357	iP	44 15.90	-0.6	
	0.7s		16.80nm		4.6mb	
HFS	21.74	339	eP	44 16.30	-1.8	
	1.0s		16.30nm		4.4mb	
NAO	23.12	337	P	44 31.00	-0.7	
	1.1s		13.40nm		4.4mb	
SOD	26.83	358	iP	45 06.60	-0.3	
BCAO	37.24	197	iPd	46 39.00	0.6	
	0.8s		11.00nm		4.7mb	
DAG	41.50	345	iPc	47 13.20	0.1	
	0.8s		7.46nm		4.5mb	
WMO	42.79	66	P	47 25.20	1.0	
LKO	43.55	234	P	47 30.76	0.2	
TIC	45.48	231	P	47 46.40	0.3	
KIC	45.54	231	P	47 46.60	0.0	
LIC	45.82	231	P	47 49.20	0.5	
LZH	57.20	68	eP	49 13.00	-1.6	
	1.5s		17.00nm		4.9mb	
FRB	57.57	329	eP	49 16.00	-0.5	
CD2	59.76	74	eP	49 31.60	-0.7	
HHC	60.17	60	P	49 34.60	-0.5	
CN2	67.32	51	eP	50 21.70	-0.1	
YKA	73.15	343	eP	50 56.00	-0.9	
	1.1s		5.50nm		4.5mb	
FFC	76.20	333	iPd	51 15.00	0.5	
	0.8s		15.00nm		5.1mb	
SES	82.83	336	eP	51 51.00	0.6	

S.D. = 1.1 on 114 of 146 obs.

% MAR 03, 1991 08h 42m 59.52± 0.68s
40.541 N ± 8.2km 29.040 E ± 5.1km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

YLV	0.25	84	iPg	43 04.80	-0.2
IZI	0.39	122	ePg	43 08.30	0.8
HRT	0.55	59	ePg	43 10.00	-0.8
			eSg	43 17.50	
BNT	0.87	258	ePn	43 17.00	0.7
EDC	0.92	258	ePn	43 16.00	-1.1
DST	0.99	199	ePn	43 18.00	-0.3
DMK	1.60	323	ePn	43 28.80	0.8

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

% MAR 03, 1991 08h 44m 07.34± 0.69s
40.645 N ± 6.8km 28.992 E ± 5.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YLV	0.30	105	iPg	44 13.60	0.0
			eSg	44 17.80	
ISK	0.42	7	iPg	44 15.80	-0.2
			iSg	44 22.80	
IZI	0.48	130	iPg	44 16.80	-0.3
			eSg	44 22.00	
HRT	0.54	71	iPg	44 17.80	-0.5
			iSg	44 25.30	
KCT	0.63	231	ePg	44 20.80	0.9
BNT	0.87	251	ePg	44 22.80	-1.2
			eSg	44 36.80	
EDC	0.91	251	ePn	44 23.00	-1.8
DST	1.08	195	ePn	44 29.00	1.4
DMK	1.50	322	ePn	44 36.00	1.7

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

% MAR 03, 1991 08h 46m 43.82± 0.68s
40.572 N ± 8.5km 28.995 E ± 4.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YLV	0.29	91	iPg	46 49.50	-0.4
IZI	0.43	123	iPg	46 52.50	-0.2
BNT	0.85	256	iPn	47 00.80	0.6
EDC	0.89	256	ePn	47 00.00	-0.9
DST	1.01	196	ePn	47 03.10	0.2
GPA	1.04	105	ePn	47 04.00	0.5
DMK	1.56	324	ePn	47 11.80	0.2

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

% MAR 03, 1991 08h 52m 10.20± 0.48s
40.613 N ± 4.8km 29.051 E ± 3.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YLV	0.25	101	iPg	52 15.80	0.3
IZI	0.42	130	ePg	52 18.80	-0.1
			eSg	52 24.30	
ISK	0.45	1	iPg	52 19.30	-0.1
			iSg	52 26.30	
HRT	0.51	66	ePg	52 20.30	-0.3
			iSg	52 27.00	
KCT	0.64	236	ePg	52 22.30	-0.8
			eSg	52 31.80	
BNT	0.90	254	iPg	52 27.80	0.4
			iSg	52 39.50	
EDC	0.94	254	ePg	52 28.00	-0.2
DST	1.06	198	iPn	52 30.60	0.4
DMK	1.55	321	iPn	52 38.30	0.4

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

MAR 03, 1991 09h 09m 11.67± 0.57s
40.643 N ± 5.5km 29.002 E ± 4.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YLV	0.29	105	iPg	09 17.20	-0.6
GBZT	0.37	67	iPgc	09 18.90	-0.3
			iSg	09 24.20	
ISK	0.42	6	iPg	09 20.30	0.0
			iSg	09 26.30	
IZI	0.47	130	iPg	09 20.80	-0.5
HRT	0.54	70	iPg	09 26.80	4.3X
KCT	0.63	232	iPg	09 24.20	-0.2
			iSg	09 33.20	
BNT	0.87	251	iPg	09 28.80	0.3
EDC	0.92	252	iPg	09 30.00	0.8
GPA	1.06	109	iPg	09 32.00	0.4
			eSg	09 46.00	
DST	1.08	196	ePg	09 31.60	-0.3
DMK	1.51	322	iPn	09 38.80	0.1
ALT	1.80	151	ePn	09 45.00	1.9
KHL	2.35	170	ePn	09 52.00	1.0
IZM	2.61	212	ePn	09 52.20	-2.5
CIN	3.12	193	ePg	10 15.00	13.2X
			iSg	10 21.00	

S.D. = 1.1 on 13 of 15 obs.

MAR 03, 1991 09h 34m 49.78± 0.64s
40.661 N ± 7.0km 28.994 E ± 4.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YLV	0.30	108	iPg	34 55.40	-0.7
GBZT	0.37	69	iPgc	34 56.90	-0.4
			iSg	35 02.10	
IZI	0.49	131	iPg	34 58.80	-0.9
KCT	0.64	230	iPg	35 02.20	-0.4
			iSg	35 12.20	
BNT	0.87	250	iPg	35 06.70	0.1
EDC	0.92	250	ePg	35 07.00	-0.3
			eSg	35 19.00	
GPA	1.07	110	iPg	35 11.00	1.0
			eSg	35 23.00	
DST	1.09	195	ePg	35 10.10	-0.2
DMK	1.49	322	iPn	35 16.80	0.2
ALT	1.82	151	ePn	35 23.00	1.5

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

? MAR 03, 1991 09h 34m 52.10± 0.45s
41.317 N ± 8.6km 79.315 E ±18.0km
DEPTH = 33.0km (normal)
4.0mb (4 obs.)
KIRGHIZ-XINJIANG BORDER REGION (320)

GKN	13.98	160	P	38 09.60	-0.6
KKN	14.35	158	P	38 16.00	0.9
DMN	14.48	159	P	38 16.60	-0.2
PKI	14.60	158	P	38 18.40	0.0
HFS	43.53	319	eP	42 54.00	0.1
	0.5s		1.50nm	4.0mb	
NAO	44.87	320	P	43 04.60	-0.1
	0.6s		1.50nm	4.1mb	
MBC	62.11	5	eP	45 12.00	0.5
	0.6s		3.00nm	4.6mb	
INK	67.96	13	eP	45 49.00	-0.3
YKA	75.93	7	eP	46 36.50	-0.2
	0.7s		0.70nm	3.8mb	
KIC	81.38	271	P	47 07.20	0.0

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

& MAR 03, 1991 09h 56m 29.49s
62.929 N 151.330 W
DEPTH = 111.3km
CENTRAL ALASKA (1)
<AEIC>.

TRF	0.71	42	eP	56 47.87	-0.6
			eS	57 03.29	
CUT	0.72	137	iP	56 48.13	-0.2
HUR	0.78	86	eP	56 48.49	-0.4
			eS	57 02.60	
SKT	0.96	186	iP	56 50.27	-0.4
			eS	57 05.87	
RND	1.22	66	iP	56 53.14	-0.4
			eS	57 10.61	
PWA	1.45	151	eP	56 56.26	0.1
SUA	1.50	169	eP	56 57.14	0.3
NCG	1.58	195	eP	56 57.26	-0.6
			eS	57 18.74	
GHO	1.61	135	eP	56 57.87	-0.4
			eS	57 19.90	
PLRM	1.69	142	eP	56 58.53	-0.5
BGL	1.74	197	eP	56 59.93	0.1
CKL	1.80	196	eP	57 00.45	-0.2
PMS	1.88	153	eP	57 01.30	-0.3
KNK	2.03	137	eP	57 02.44	-1.0
RDT	2.42	193	eP	57 08.36	-0.2
SLKM	2.49	167	eP	57 09.07	-0.3
TOA	2.53	107	eP	57 09.20	-0.8
PAX	2.68	86	eP	57 11.29	-0.7
SDG	2.70	96	eP	57 10.83	-1.3
GLI	2.87	134	eP	57 13.00	-1.5
KLU	2.92	117	iP	57 13.18	-2.0
VZW	2.93	128	eP	57 15.19	-0.2
KNIM	3.11	145	eP	57 14.55	-3.1
CNPM	3.42	179	eP	57 21.18	-0.7
GLB	3.83	110	eP	57 25.20	-2.3

25 obs. ossocioted

• MAR 03, 1991 10h 05m 42.96± 0.89s
16.337 N ± 8.0km 120.424 E ±10.9km
DEPTH = 10.0km (geophysicist)
4.6mb (2 obs.)
LUZON, PHILIPPINE ISLANDS (249)

BAG	0.17	64	iPd-	05 45.80	-1.1
SZP	1.21	1	iPc	06 06.00	0.5
			iS	06 26.00	
CVP	1.91	44	eP	06 17.00	1.2
			eS	07 46.00	
PIP	1.99	5	iPc	06 17.00	0.1
			iS	06 47.00	
PGP	2.86	170	eP	06 30.00	0.5
LZH	24.59	326	eP	11 04.30	-0.3
	1.5s		20.00nm	4.5mb	
			sP	11 20.50	
SLL	84.09	332	eP	18 14.20	-0.9
	0.5s		2.30nm	4.7mb	

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

MAR 03, 1991 10h 09m 06.69± 0.32s
41.066 N ± 3.5km 22.475 E ± 2.8km
DEPTH = 6.4 ± 2.8 km
YUGOSLAVIA (383)
ML 4.1 (SKO), 3.8 (ATH), 3.7 (TTG). MD 3.5 (THE). Felt (V) at Gevgelijo and Valandovo.

GRG	0.12	207	iPd	09 10.14	0.7
VAY	0.26	16	iPgc	09 12.40	0.3
			iSg	09 15.90	
KNT	0.33	73	ePd	09 13.76	0.3
THE	0.57	139	ePd	09 17.64	-0.5
			eS	09 25.24	
SOH	0.71	110	ePd	09 20.50	-0.4
SRS	0.85	86	ePd	09 22.84	-0.5
			eS	09 34.21	
FNA	0.88	252	ePd	09 23.40	-0.6
KK8	0.92	30	iPc	09 23.00	-1.6
KZN	0.93	215	iPgc	09 23.50	-1.3
LIT	0.96	179	iPc	09 25.08	-0.3
			eS	09 40.62	
MMB	1.08	61	iPgd	09 28.00	0.7
SKO	1.19	320	iPgc	09 28.50	-0.8
	0.4s		505.00nm		
			i	09 33.50	
			iSg	09 42.50	
			i	09 44.70	
			Lg	09 45.00	
OHR	1.27	273	iPgc	09 30.30	-0.3
			iSg	09 47.00	
			Lg	09 52.00	
PAIG	1.46	141	ePd	09 33.92	0.4
			eS	09 53.80	
VTS	1.62	20	iPd	09 35.00	-0.9
			iSg	10 00.00	
RZN	1.80	69	iP	09 39.00	0.4
			iSg	10 05.00	
PGB	1.95	40	iPd	10 00.00	19.4X
PLD	1.97	57	eP	09 41.00	0.2
AGG	2.04	183	ePd	09 41.80	-0.2
KDZ	2.29	74	iP	09 44.00	-1.6
			iSg	10 18.00	
RDO	2.32	87	ePn	09 45.00	-0.9
PVY	2.41	310	iPnc	09 50.16	2.7
			iSn	10 24.28	
KEK	2.45	237	ePb	09 51.00	3.2X
ULC	2.58	291	iPnc	09 51.05	1.3
			iSn	10 23.96	
IVA	2.64	314	iPnc	09 53.33	2.8
			iSn	10 29.71	
ALN	2.71	92	ePd	09 51.08	-0.4
TTG	2.76	301	iPnc	09 53.58	1.3
			iSn	10 30.15	
BDV	2.99	295	iPnd	09 56.93	1.4
			iSn	10 33.78	
NKY	3.13	305	iPnd	09 59.46	2.0
			iSn	10 38.73	
PLE	3.22	316	iPnd	10 02.21	3.4X
			iSn	10 44.25	
VLS	3.23	207	ePn	10 01.00	2.1
ATH	3.24	162	ePn	09 59.10	0.2
HCY	3.28	296	iPnc	10 06.00	6.4X

03d 10h

			iSn	10 40.00		
PRK	3.43	121	ePn	10 03.00	1.3	
BRY	3.46	303	iPnc	10 03.80	1.6	
			iSn	10 46.38		
LCI	3.51	259	P	10 01.10	-1.8	
			eSn	10 39.60		
DRA	3.84	19	eP	10 25.00	17.5X	
BRT	4.00	269	P	10 09.50	-0.2	
			eSn	10 54.30		
BEO	4.04	339	ePn	10 08.50	-1.7	
BUC	4.28	37	eP	10 20.00	6.3X	
VLI	4.36	175	ePn	10 14.50	-0.4	
KCT	4.55	98	ePg	10 36.00	18.4X	
			eSg	10 45.70		
MTUR	4.57	24	ePc	10 47.00	29.1X	
BZS	4.59	352	eP	10 20.50	2.4	
CMP	4.60	23	ePc	10 08.00	-10.3X	
ORI	4.70	260	P	10 21.30	1.5	
			eSn	11 11.50		
TNR	4.77	15	ePc	10 02.00	-18.7X	
HVAR	4.95	297	ePn	10 22.80	-0.5	
			iSn	11 17.80		
ISK	4.98	88	iPg	10 32.70	9.0X	
			eSg	10 39.20		
ISR	5.04	35	eP	10 36.50	11.9X	
MLR	5.10	29	iPc	10 36.00	10.5X	
YLV	5.26	93	iPg	10 29.70	2.0	
MGR	5.35	262	P	10 28.60	-0.4	
IZI	5.37	96	iPg	10 33.20	3.9X	
			eSg	10 38.70		
HRT	5.45	90	ePg	10 31.70	1.2	
			eSg	10 40.70		
SGO	5.46	267	P	10 30.50	0.0	
VRI	5.71	31	ePd	10 35.00	1.0	
SOI	5.79	241	P	10 36.20	1.1	
			eSn	11 38.00		
CFR	5.85	43	ePd	10 10.50	-25.4X	
UZD	6.20	334	iPn	10 39.90	-1.0	
NPS	6.30	156	ePn	10 44.00	1.6	
BUD	6.88	340	e(Pn)	10 51.00	0.6	
VBY	6.88	313	eP	11 24.00	33.4X	
ARV	7.48	292	P	10 56.70	-2.2	
CEY	7.49	311	e(P)	11 02.00	2.9X	
ASS	7.57	289	P	10 59.60	-0.7	
LJU	7.62	313	e(P)	10 58.00	-2.8X	
TRI	7.86	309	eP	11 02.60	-1.6	
			e	12 28.40		
VOY	7.97	311	ePc	11 04.50	-1.3	
ZST	8.09	334	iP	11 09.30	1.9	
SFI	8.35	293	P	11 09.80	-1.3	
KBA	8.90	316	e(Pn)	11 19.00	0.1	
			e(Sn)	12 54.00		
FVI	8.92	311	P	11 17.60	-1.3	
MME	9.23	294	P	11 23.20	-0.2	
CTI	9.30	306	P	11 22.20	-2.1	
KHC	10.22	325	P	11 37.50	0.6	
GKN	51.84	84	P	18 15.30	-2.6	
KKN	52.43	84	P	18 12.00	-10.5X	
GUN	52.82	83	P	18 08.20	-17.4X	

S.D. = 1.3 on 59 of 79 obs.

MAR 03, 1991 10h 11m 25.78± 0.71s
16.363 N ± 8.3km 120.395 E ± 8.6km
DEPTH = 10.0km (geophysicist)
4.1mb (5 obs.)
LUZON, PHILIPPINE ISLANDS (249)

BAG	0.18	75	iPd-	11 28.80	-1.2	
SZP	1.18	3	iPc	11 49.00	1.2	
			iS	12 10.00		
CVP	1.91	45	iPc	11 58.00	-0.6	
			eS	12 31.00		
PIP	1.96	6	iPc	12 00.50	1.1	
			iS	12 30.50		
PGP	2.90	169	ePd	12 14.00	1.2	
			eS	12 53.00		
CHTO	20.59	280	e(P)	16 06.80	-0.9	
	1.0s		2.00nm		3.4mb	
BJI	23.88	352	eP	16 40.00	-0.2	
LZH	24.55	326	eP	16 46.50	-0.6	
	1.5s		28.00nm		4.7mb	
Z	16s		0.24um		3.8MszX	
			pP	16 51.50	18kmX	
GBA	41.53	272	P	19 15.00	-0.3	
	0.6s		2.60nm		4.1mb	
INK	80.73	21	eP	23 42.00	1.6	
HFS	84.01	331	eP	23 56.20	-1.3	

	0.5s		0.80nm		4.2mb	
YKA	90.44	22	eP	24 25.20	-3.5X	
	0.9s		0.60nm		3.9mb	

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

% MAR 03, 1991 10h 56m 00.84± 0.47s
40.633 N ± 4.6km 29.053 E ± 3.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YLV	0.25	105	iPg	56 06.40	0.2	
ISK	0.43	1	iPg	56 09.70	0.0	
			iSg	56 16.20		
IZI	0.44	133	iPg	56 09.70	0.0	
HRT	0.50	68	iPg	56 10.70	-0.4	
			iSg	56 17.70		
KCT	0.66	234	iPg	56 13.70	-0.2	
			eSg	56 22.70		
BNT	0.91	253	iPg	56 18.20	0.0	
EDC	0.95	253	ePg	56 18.50	-0.5	
DST	1.08	198	ePn	56 21.60	0.5	
DMK	1.54	321	iPn	56 28.80	0.5	

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

% MAR 03, 1991 11h 40m 46.77± 0.67s
40.623 N ± 6.3km 29.051 E ± 5.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YLV	0.25	103	iPg	40 52.40	0.3	
IZI	0.43	131	iPg	40 55.70	0.1	
ISK	0.44	1	iPg	40 55.70	-0.1	
			eSg	41 01.70		
HRT	0.51	67	iPg	40 56.20	-0.9	
KCT	0.65	235	ePg	41 00.00	0.2	
			iSg	41 09.10		
EDC	0.95	253	ePg	41 03.00	-1.8	
			eSg	41 17.00		
DST	1.07	198	ePn	41 07.60	0.7	
DMK	1.54	321	ePn	41 15.80	1.4	

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

MAR 03, 1991 12h 16m 16.05± 0.27s
40.602 N ± 2.6km 28.994 E ± 2.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YLV	0.29	97	iPg	16 22.10	-0.1	
IZI	0.45	126	iPg	16 25.20	0.0	
ISK	0.47	6	iPg	16 25.10	-0.4	
ITU	0.50	2	ePg	16 27.00	0.7	
HRT	0.56	67	iPg	16 26.10	-1.3	
KCT	0.60	234	iPg	16 28.30	0.1	
EDC	0.90	254	iPg	16 34.00	0.7	
DST	1.03	196	iPn	16 36.60	1.0	
GPA	1.05	107	iPg	16 36.10	0.2	
DMK	1.54	323	iPn	16 43.80	0.3	
ALT	1.77	151	iPn	16 48.20	1.2	
KHL	2.31	170	iPn	16 53.80	-1.1	
IZM	2.58	212	iPn	16 57.80	-0.8	
JMB	2.60	317	eP	16 59.00	0.2	
			iSg	17 40.00		
KDZ	2.90	292	iP	17 03.00	-0.1	
			iSg	17 40.00		
BBTK	2.98	104	eP	17 18.00	13.6X	
			iS	17 52.00		
CIN	3.08	194	ePn	17 16.00	10.4X	
PSN	3.14	349	eP	17 06.00	-0.4	
BCK	3.37	158	ePn	17 10.00	0.1	
RZN	3.41	290	iPc	17 10.00	-0.5	
YER	3.51	189	ePn	17 11.60	-0.1	
PLD	3.56	296	iPc	17 12.00	-0.5	
KAS	3.69	76	ePn	17 18.00	3.5X	
			iSg	18 10.00		
PVL	3.78	315	iPc	17 15.00	-0.6	
ELL	3.91	169	iPn	17 21.80	4.2X	
PGB	4.11	300	iP	17 20.00	-0.3	
CFR	4.62	353	eP	17 29.00	1.5	
KKB	4.63	288	eP	17 27.00	-0.7	
VTS	4.77	297	iPc	17 29.00	-0.9	
			iS	18 22.00		
ISR	4.88	339	eP	17 20.00	-11.2X	
VAY	4.92	280	ePn	17 32.30	0.6	
DRA	5.37	321	eP	18 04.00	25.9X	
MLR	5.37	336	eP	17 47.00	8.7X	
VRI	5.52	343	ePc	17 41.00	0.7	
SKO	5.85	286	ePn	18 16.00	31.1X	

TNR	6.12	327	ePc	17 49.00	0.4	
OHR	6.24	277	ePn	18 17.00	26.6X	
BZS	7.36	315	eP	18 10.00	3.8X	

S.D. = 0.7 on 28 of 38 obs.

% MAR 03, 1991 12h 52m 08.70± 0.78s
40.729 N ± 8.0km 28.990 E ± 5.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YLV	0.33	119	iPg	52 16.00	0.4	
			iSg	52 20.60		
HRT	0.52	80	iPg	52 18.10	-1.2	
			iSg	52 25.60		
IZI	0.54	137	iPg	52 20.10	0.5	
KCT	0.68	225	iPg	52 22.10	-0.1	
			eSg	52 31.60		
BNT	0.90	246	iPg	52 25.00	-0.9	
EDC	0.94	246	ePg	52 26.00	-0.6	
DST	1.16	194	ePn	52 31.00	0.7	
DMK	1.43	320	ePn	52 36.00	1.3	

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

• MAR 03, 1991 12h 59m 11.47± 0.64s
0.265 S ±16.4km 91.250 W ±18.8km
DEPTH = 10.0km (geophysicist)
5.0mb (12 obs.)
GALAPAGOS ISLANDS (697)

UPA	14.85	52	(P)	02 54.00	10.6X	
NNA	18.44	130	eP	03 30.80	1.7	
	0.9s		6.72nm		3.8mb X	
PPM	20.53	340	(P)	03 55.00	1.6	
CNCB	28.21	127	P	05 10.00	2.7X	
CCH	30.00	126	P	05 22.00	-1.1	
SIV	33.62	119	P	05 55.00	0.4	
ALO	37.80	339	eP	06 30.30	0.2	
	1.0s		23.75nm		4.9mb	
ANMO	37.80	339	P	06 30.50	0.4	
	0.8s		19.59nm		4.9mb	
GLA	39.89	328	eP	06 48.00	0.6	
BAR	40.61	326	eP	06 53.00	-0.2	
PLM	41.22	327	eP	06 59.00	0.6	
TPC	41.35	328	eP	07 01.00	1.6	
PEC	41.78	327	P	07 03.40	0.5	
GOL	41.82	344	P	07 03.50	0.1	
	1.2s		43.03nm		5.1mb	
PV09	41.94	339	P	07 04.30	-0.1	
RVR	41.98	327	eP	07 05.00	0.6	
GSC	42.67	329	eP	07 11.00	0.8	
SBB	42.75	327	eP	07 11.00	0.2	
ISA	43.83	327	eP	07 21.00	1.4	
TNP	45.04	331	P	07 29.40	-0.1	
	1.1s		21.10nm		5.0mb	
RSSD	45.64	347	P	07 33.40	-0.8	
	1.0s		11.39nm		4.8mb	
BW06	45.90	341	P	07 35.00	-1.3	
	0.9s		8.47nm		4.7mb	
LRM	49.56	341	eP	08 03.80	-1.1	
SES	53.22	344	eP	08 31.00	-1.3	
NEW	53.29	339	P	08 32.50	-0.3	
	0.9s		10.96nm		4.8mb	
PNT	55.09	338	ePd	08 45.00	-0.9	
	0.9s		18.00nm		5.1mb	
FFC	55.51	352	ePc	08 47.10	-1.8	
	1.0s		23.00nm		5.2mb	
FRB	66.04	11	eP	09 59.00	-1.2	
INK	74.28	345	eP	10 49.00	-1.4	
	1.1s		37.00nm		5.3mb	
FBA	76.64	339	P	11 05.50	1.6	
	0.9s		6.25nm		4.7mb	
MBC	78.07	353	ePd	11 11.40	-0.2	
	1.0s		15.00nm		5.0mb	
DAG	86.28	13	eP	11 55.50	1.2	
KIC	86.56	84	P	11 57.80	0.9	
WB2	131.04	243	ePKP	18 24.70	-1.4	
	0.7s		2.30nm			
WRA	131.05	243	ePKP	18 24.70	-1.4	
	0.7s		2.30nm			
GKN	152.14	8	PKP	19 00.00	-2.8X	

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

% MAR 03, 1991 13h 27m 49.85± 1.08s
16.996 N ±11.6km 99.407 W ± 7.8km
DEPTH = 10.0km (geophysicist)
NEAR COAST OF GUERRERO, MEXICO (58)
Felt along the coost of

Guerrero.

ACX	0.45	254	iPd	27	58.50	-0.5
			iS	28	03.50	
III	1.37	358	iPd	28	14.50	-0.7
			iS	28	32.50	
PPM	2.19	20	eP	28	27.00	-0.3
			iS	28	56.00	
IIT	2.27	27	eP	28	27.50	-0.7
CRX	2.41	354	(P)	28	00.00	-30.3X
			(S)	29	03.50	
OXX	2.57	88	eP	28	33.00	0.6
IISM	2.77	44	eP	28	35.00	0.0
MRX	3.18	328	eP	28	42.50	1.6

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

MAR 03, 1991 14h 04m 27.24± 1.45s
48.507 N ±10.2km 153.324 E ± 8.6km
DEPTH = 126.4 ± 13.8 km
4.4mb (18 obs.)
KURIL ISLANDS (221)

KUSJ	8.09	231	P	06	22.60	-0.6
			S	07	45.60	
ASAJ	8.60	243	P	06	34.80	4.8X
HOOJ	9.34	233	eP	06	39.80	-0.1
			eS	08	19.20	
MDJ	16.76	265	eP	08	17.00	1.5
TIY	31.39	265	Pd	10	39.00	1.0
INK	40.10	34	eP	11	51.00	-0.2
GYA	42.26	256	P	12	09.80	0.3
MBC	42.90	21	eP	12	14.50	0.5
WMQ	44.45	290	eP	12	27.00	0.0
YKA	49.44	38	eP	13	05.40	-0.2
	0.5s	2.20nm			4.3mb	
CHG	52.68	256	eP	13	31.50	0.9
CHTO	52.68	256	eP	13	31.00	0.4
	0.8s	6.04nm			4.6mb	
GUN	55.01	274	P	13	47.70	-0.3
KKN	55.48	274	P	13	50.80	-0.4
PKI	55.54	274	P	13	50.20	-1.6
DMN	55.72	274	P	13	52.00	-1.0
GKN	55.77	275	P	13	52.40	-0.8
FFC	59.31	41	iPd	14	17.70	0.2
	0.5s	7.00nm			4.9mb	
LRM	60.03	54	eP	14	23.80	0.9
FRB	63.34	19	eP	14	42.00	-2.4
HFS	66.86	339	eP	15	04.50	-2.5
	0.3s	2.10nm			4.5mb	
HYB	67.11	271	eP	15	08.60	-0.6
WB2	70.22	199	eP	15	28.30	0.2
	0.8s	2.80nm			4.1mb	
WRA	70.22	199	P	15	28.00	-0.1
	1.0s	1.60nm			3.8mb	
GBA	70.60	269	P	15	30.40	-0.2
KHC	76.72	334	eP	16	05.90	0.3
KBA	78.63	333	eP	16	17.00	0.7
BSF	79.74	338	eP	16	21.70	-0.5
LOR	80.98	339	eP	16	28.60	0.0
	0.8s	5.35nm			4.4mb	
LBF	81.22	339	eP	16	29.70	-0.2
	0.8s	4.05nm			4.3mb	
SSF	81.26	340	eP	16	30.00	0.0
	0.8s	4.05nm			4.3mb	
AVF	81.55	340	eP	16	31.70	0.2
	0.5s	3.65nm			4.4mb	
SMF	81.57	339	eP	16	31.90	0.2
	0.9s	9.85nm			4.6mb	
BGF	81.88	340	eP	16	33.90	0.6
	0.5s	2.90nm			4.3mb	
LPL	81.91	337	eP	16	34.40	0.6
LPG	81.92	337	eP	16	34.10	0.2
	0.7s	5.50nm			4.4mb	
MAF	82.27	340	eP	16	35.80	0.5
	0.5s	2.90nm			4.3mb	
RJF	83.37	340	eP	16	41.60	0.6
	0.9s	9.85nm			4.7mb	
CAF	83.61	340	eP	16	43.40	1.2
	0.9s	8.20nm			4.6mb	
LRG	83.93	336	eP	16	44.40	0.6
	0.5s	3.65nm			4.5mb	
LMR	84.00	336	eP	16	44.00	-0.2
	0.6s	3.60nm			4.4mb	
PGF	84.03	334	eP	16	45.00	0.5

S.D. = 0.9 on 41 of 42 obs.

MAR 03, 1991 14h 32m 10.45± 0.27s
41.576 N ± 5.3km 142.473 E ± 6.1km
DEPTH = 50.6km (6 depth phases)
4.7mb (31 obs.)
HOKKAIDO, JAPAN REGION (224)

HOOJ	1.01	37	iP+	32	27.80	-0.7
			S	32	40.80	
AOMJ	1.88	238	P	32	42.30	1.5
			eS	33	06.30	
KUSJ	2.25	47	iPd	32	44.80	-1.1
			S	33	11.00	
ASAJ	2.54	3	P	32	51.50	1.4
			S	33	23.20	
OFUJ	2.57	194	eP	32	50.90	0.5
			eS	33	22.50	
YAMJ	3.88	210	P	33	10.30	1.2
NIIJ	5.10	213	P	33	26.70	0.5
KAKJ	5.65	199	P	33	32.10	-1.9
			eS	34	36.90	
CHJJ	6.15	207	P	33	40.30	-0.7
MTMJ	6.17	218	P	33	42.90	1.6
IIDJ	7.06	212	P	33	54.30	0.6
TSRJ	7.88	222	P	34	07.00	1.9
BJI	19.94	274	eP	36	38.00	-2.8
	1.2s	94.00nm			5.0mb	
Z	18s	0.76um				
SSE	20.04	245	Pd	36	41.50	-0.3
	1.2s	41.00nm			4.6mb	
Z	20s	0.60um			3.9Msz	
E	10s	0.20um				
			pP	37	00.00	95kmX
			sP	37	12.00	
			eS	40	28.00	
			sS	40	47.00	
LZH	30.41	272	eP	38	18.00	-2.2
	1.6s	26.00nm			4.7mb	
Z	19s	0.29um			3.9Msz	
			sP	38	31.50	
KMI	36.66	256	Pd	39	15.00	0.7
	2.0s	50.00nm			5.1mb	
			pP	39	28.00	49km
ANM	37.34	34	ePd	39	21.20	1.9
SVW	41.45	40	ePd	39	55.30	1.8
	0.9s	8.10nm			4.5mb	
BRW	41.94	25	eP	39	57.30	0.1
IMA	42.40	33	ePd	40	01.60	0.3
	0.7s	3.30nm			4.2mb	
RSO	42.89	41	P	40	06.30	0.9
CHG	43.35	252	iPc	40	10.40	1.0
	1.0s	14.75nm			4.7mb	
CHTO	43.35	252	iP	40	09.90	0.5
	0.8s	10.80nm			4.6mb	
SLKM	44.13	41	P	40	13.90	-1.4
PMR	44.54	39	ePd	40	18.80	0.3
	1.0s	27.30nm			5.0mb	
FBA	44.86	35	ePd	40	22.10	1.0
	1.1s	50.20nm			5.2mb	
TOA	45.87	38	ePd	40	30.80	1.6
	0.9s	65.50nm			5.5mb	
GUN	47.67	272	P	40	44.40	0.2
BALM	47.86	39	P	40	44.90	-0.1
KKN	48.18	272	P	40	48.30	0.3
PKI	48.20	272	P	40	48.00	-0.3
DMN	48.41	272	P	40	50.00	0.2
	0.8s	47.00nm			5.6mb	
GKN	48.55	273	P	40	50.60	-0.1
INK	50.00	29	eP	41	01.00	-0.1
MBC	51.95	18	eP	41	14.00	-1.8
NDI	53.73	278	iPc	41	29.50	-0.1
	0.6s	20.00nm			5.3mb	
HYB	59.23	266	iPd	42	08.20	-0.9
YKA	59.49	32	eP	42	09.10	-1.2
	0.9s	5.50nm			4.7mb	
KEV	59.51	339	eP	42	10.00	-0.2
QUE	60.45	285	eP	42	17.50	0.0
SOD	61.12	337	iP	42	20.60	-0.7
DAG	61.34	355	iPc	42	22.00	-0.6
	0.6s	4.00nm			4.7mb	
WB2	61.67	189	eP	42	23.30	-2.1
	0.6s	3.00nm			4.6mb	
			i	42	30.90	25kmX
WRA	61.67	189	P	42	24.00	-1.4
	0.8s	3.50nm			4.5mb	
POO	62.07	271	eP	42	26.50	-1.9
GBA	62.46	264	Pc	42	30.20	-0.7
	0.8s	6.30nm			4.8mb	
PNT	64.39	46	eP	42	43.00	-0.2
	0.8s	10.00nm			4.9mb	
KAF	64.67	332	iP	42	44.30	-0.5
	0.6s	4.10nm			4.6mb	
ASPA	65.39	189	eP	42	49.20	-0.6
	1.6s	5.40nm			4.3mb	
NEW	66.34	46	P	42	54.60	-1.2
	0.7s	11.20nm			5.0mb	
NUR	66.35	331	eP	42	44.00	-11.5X
	0.8s	16.10nm				
FFC	69.46	34	ePc	43	15.00	-0.1
	1.1s	20.00nm			5.0mb	
HFS	70.30	336	eP	43	16.70	-3.4X
	0.3s	1.30nm			4.3mb	
LRM	70.36	46	eP	43	20.50	-0.6
NAO	70.61	337	P	43	20.70	-1.3
	0.9s	6.30nm			4.5mb	
FRB	72.17	14	eP	43	31.00	-0.2
TNP	72.54	54	P	43	35.00	0.8
	0.7s	5.00nm			4.6mb	
BW06	73.92	47	P	43	41.60	-0.6
	0.8s	3.57nm			4.3mb	
KRA	75.80	326	ePd	43	53.20	0.7
			e	44	05.70	42km
RSSD	75.92	43	P	43	51.50	-2.1
	0.8s	7.01nm			4.6mb	
KSP	76.68	328	ePc	43	57.70	0.3
			e	44	13.00	54km
PV09	77.05	50	P	44	01.50	1.4
BRG	77.56	329	e(P)	44	03.00	0.7
CLL	77.57	330	eP	44	03.00	0.7
			e	44	17.00	49km
PRU	78.04	329	eP	44	05.50	0.6
			e	44	21.00	55km
KHC	79.10	329	P	44	12.10	1.3
KBA	80.85	328	iPc	44	22.80	2.4
	1.2s	8.60nm			4.6mb	
			i	44	38.40	55km
ANMO	81.06	51	P	44	22.70	1.0
	0.8s	3.17nm			4.3mb	
ALQ	81.06	51	eP	44	23.00	1.3
	1.0s	3.75nm			4.3mb	
SKO	81.26	320	eP	44	22.00	-0.4
SIV	147.41	46	PKP	51	51.00	3.1X

S.D. = 1.2 on 68 of 71 obs.

% MAR 03, 1991 14h 38m 22.07± 0.94s
40.658 N ± 6.0km 29.119 E ± 8.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YLV	0.21	115	iPg	38	27.10	0.3
			iSg	38	31.00	
ISK	0.41	354	iPg	38	30.50	0.1
			iSg	38	36.50	
IZI	0.42	140	iPg	38	30.50	-0.2
			eSg	38	36.50	
HRT	0.45	68	iPg	38	31.00	-0.2
			eSg	38	39.50	
DST	1.12	200	ePn	38	43.00	0.0

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

• MAR 03, 1991 15h 12m 26.89± 1.08s
30.699 S ±10.7km 68.652 W ±11.9km
DEPTH = 33.0km (normal)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.65	166	iPc	12	41.00	1.4
RTCB	0.80	189	iPd	12	41.00	-0.7
ZON	0.84	182	iPd	12	41.50	-0.9
			eS	12	55.50	
RTRS	0.87	307	iPd	12	43.00	0.2
			eS	12	53.50	
CFA	0.97	159	iPc	12	44.90	0.6
			eS	13	00.00	
TCA	3.54	101	ePc	13	20.50	-0.5

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

? MAR 03, 1991 15h 14m 20.38± 0.95s
13.433 S ±33.9km 72.258 W ±19.7km
DEPTH = 33.0km (normal)
3.7mb (1 obs.)
PERU (116)

NNA	4.70	287	iPd	15	31.20	0.3
	0.6s	45.33nm				
			eS	16	22.00	
PT10	4.79	286	eP	15	32.00	-0.1

03d 15h

		eS	16 22.00			
ZOBO	4.89	126 iP	15 39.00	4.9X		
		S	16 33.00			
LPB	5.06	128 eP	15 36.00	-0.5		
		S	16 38.00			
CNCB	5.32	130 eP	15 39.00	-1.2		
		i	15 44.60			
CCH	7.08	124 P	16 06.50	1.7		
YKA	82.56	342 eP	26 40.70	-0.3		
	0.7s	0.50nm		3.7mb		
GBA	150.54	86 PKPd	34 09.40	3.8X		
	0.6s	1.70nm				
	S.D. = 1.3	on 6 of	8 obs.			

MAR 03, 1991 15h 20m 24.73± 0.10s
21.867 S ± 3.8km 175.057 W ± 3.1km
DEPTH = 16.1km (geophysicist)
6.0mb (53 obs.) 6.1Msz (33 obs.)
TONGA ISLANDS (173)

Mo=2.0•10••18 Nm (PPT). Depth from broadband displacement seismograms.

FAULT PLANE SOLUTION: P-Waves

NP1:Strike=	50	Dip=60 Slip= 110
NP2:	194	36 59

Principal Axes:

T		Plg=68	Azm= 1
P		13	126

Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting with a moderate right-lateral strike-slip component. The preferred fault plane is NP2.

RADIATED ENERGY

No. of sta:	6	Focal mech.	F
Energy	8.1±2.6•10••12 Nm		

MOMENT TENSOR SOLUTION

Dep 20 No. of sta: 18

Moment Tensor; Scale 10••18 Nm

Mrr= 0.72	Mtt= 0.07	
Mff=-0.80	Mrt= 0.68	
Mrf= 0.30	Mtf=-0.43	

Principal axes:

T	Val= 1.15	Plg=58	Azm=358
N	-0.01	26	218
P	-1.15	18	119

Best Double Couple:Mo=1.1•10••18

NP1:Strike=175	Dip=35	Slip= 42
NP2:	50 67	118

CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN

L.P.B.: 26S, 72C

Centroid Location:

Origin Time 15:20:32.0 0.3
Lat 22.09S 0.03 Lon 174.58W 0.02
Dep 23.2 1.2 Half-duration 4.7

Moment Tensor; Scale 10••18 Nm

Mrr= 1.42 0.02	Mtt=-0.47 0.04	
Mff=-0.94 0.04	Mrt= 0.96 0.07	
Mrf= 0.85 0.06	Mtf=-1.05 0.03	

Principal Axes:

T	Val= 1.88	Plg=70	Azm=331
N	0.34	7	223
P	-2.22	19	130

Best Double Couple:Mo=2.0•10••18

NP1:Strike=209	Dip=26	Slip= 75
NP2:	46 65	97

SVA	7.15	300 eP	22 19.30	8.1X		
RAO	7.79	199 P	22 19.80	-0.3		
		S	23 43.00			
AFI	8.51	22 iPc	22 24.00	-6.3X		
		eS	24 08.00			
RAR	14.24	90 P	23 37.00	-10.7X		
		S	25 56.00			
PVC	16.18	282 iPd	24 19.80	6.8X		
BKM	16.26	282 iPc	24 24.00	9.9X		
DZM	17.16	266 iPd	24 30.90	5.4X		
		iS	27 55.10			
NOZ	17.72	198 eP	24 33.30	1.0		
PGZ	20.09	200 P	24 58.00	-2.3		
	0.8s	98.00nm		5.2mb		
CAW	20.92	201 eP	25 04.90	-4.1X		
BLW	21.02	200 P	25 08.70	-1.3		
		eS	28 45.60			
MRW	21.16	202 eP	25 06.50	-4.8X		
		eS	28 48.70			
WEL	21.18	202 eP	25 10.00	-1.6		
		S	28 47.00			
TCW	21.29	203 P	25 08.00	-4.7X		
		eS	28 49.50			
THZ	22.28	204 P	25 23.40	0.7		
		eS	29 13.40			
KHZ	22.61	202 P	25 24.50	-1.4		
		eS	29 19.30			
LTZ	23.39	204 P	25 30.00	-3.6X		
AFR	24.17	84 iP	25 39.20	-2.1		
	1.2s	325.00nm		5.8mb		
PAE	24.33	85 iP	25 40.80	-2.0		
	1.2s	190.00nm		5.6mb		
PPT	24.35	84 iP	25 41.00	-2.1		
	1.2s	325.00nm		5.8mb		
PPN	24.50	84 iP	25 42.00	-2.4		
	1.2s	145.00nm		5.5mb		
TVO	24.60	85 iP	25 43.40	-2.1		
	1.2s	385.00nm		5.9mb		
PMO	26.63	80 iP	26 02.30	-2.2		
	1.2s	95.00nm		5.3mb		
MSZ	26.72	208 P	26 07.00	1.9		
VAH	26.80	80 iP	26 03.30	-2.7		
	1.2s	80.00nm		5.3mb		
HNR	27.01	293 eP	26 09.00	1.0		
		eS	31 03.00			
SVO	27.26	294 eP	26 14.00	3.7X		
VSG	27.30	293 P	26 09.00	-1.7		
BRS	29.70	253 iPc	26 31.50	-0.8		
		i	26 38.50			
		eS	31 30.00			
COO	30.80	247 e(P)	26 44.00	1.9		
		e	29 42.00			
		e	33 25.00			
RMQ	33.26	255 iPd	27 02.30	-1.3		
		i	29 47.00			
CNB	33.80	239 eP	27 10.00	1.7		
		e	29 49.00			
		e	33 41.00			
CMS	36.08	246 eP	27 26.00	-1.7		
		e	33 43.00			
CTA	36.11	266 iPc	27 26.30	-1.7		
	0.9s	110.08nm		5.7mb		
		iS	33 00.00			
CTAO	36.11	266 ePc	27 26.50	-1.5		
		esPd	27 34.45			
		iPP	28 54.06			
RAB	36.31	294 eP	27 28.00	-1.7		
		e(S)	33 12.00			
OLP	37.31	254 eP	27 36.00	-2.0		
TOO	37.37	236 eP	27 37.00	-1.5		
TAU	37.65	227 eP	27 41.00	0.3		
		e	33 16.00			
PMG	38.33	283 eP	27 45.00	-1.7		
BFD	39.58	238 e(P)	27 57.00	0.0		
		e	33 52.00			
STK	39.71	246 iPd	28 07.60	9.5X		
	0.9s	12.10nm		4.6mb X		
	Z 20s	0.50um		4.4MszX		
		iS	34 06.60			
		iPcS	34 26.60			
		iScS	38 18.00			
OIS	42.17	263 iPd	28 17.10	-1.3		
		i	30 14.10			
		e	34 06.00			
ADE	42.36	242 iPd	28 21.00	1.1		
ASPA	46.90	258 iPc	28 54.40	-2.0		
	1.1s	63.20nm		5.6mb		
	Z 19s	25.10um		6.2Msz		
		epP	30 06.20	353kmX		
		iPcS	34 22.30			
		e	34 30.70			
		iS	35 40.00			
		iScS	38 53.00			
WB2	47.13	263 iPd	28 55.40	-2.9X		
	0.6s	62.20nm		5.9mb		
		iPcP	30 09.40			
		ePP	30 26.10			
		iS	35 47.50			
		i	38 39.50			
WRA	47.14	263 iPd	28 55.40	-3.0X		
	0.6s	62.20nm		5.9mb		
		iPcP	30 09.40			
		ePP	30 26.10			
		iS	35 47.50			
		i	38 39.50			
FORR	51.25	247 iPc	29 27.60	-2.3		
MTN	51.92	271 eP	29 32.00	-3.2X		
GUA	52.73	308 eP	29 40.50	-0.7		
	0.9s	739.50nm		6.6mb		
	Z 18s	8.25um		5.8Msz		
PJG	52.79	308 eP	29 41.00	-0.6		
WARB	53.05	253 eP	29 40.00	-3.6X		
	0.4s	13.00nm		5.2mb		
KNA	53.29	266 iPd	29 43.50	-1.9		
	0.6s	100.00nm		6.0mb		
VNDA	56.81	186 P+	30 12.60	2.4		
AAI	57.86	280 ePc	30 16.90	-1.5		
KLB	59.97	245 iPd	30 31.10	-1.8		
MBL	60.15	257 iPd	30 32.00	-2.2		
MEKA	60.15	251 eP	30 25.50	-8.6X		
NWAO	60.22	244 eP	30 34.00	-0.6		
	Z 20s	7.10um		5.8Msz		
	N 20s	5.50um				
	E 20s	6.30um				
RKG	60.25	242 eP	30 34.00	-0.8		
BAL	61.02	246 eP	30 38.00	-2.0		
MUN	61.22	245 eP	30 39.50	-1.9		
	Z 18s	13.20um		6.1Msz		
	N 18s	4.90um				
	E 18s	8.30um				
MNI	63.03	283 eP	30 52.00	-1.6		
NANU	63.69	255 eP	30 56.50	-1.5		
	0.3s	15.00nm		5.6mb		
DAV	64.89	289 eP	31 04.00	-1.8		
CGP	66.30	290 iPc	31 14.00	-0.9		
	1.5s	13.00nm		4.9mb X		
MAP	67.81	292 ePc	31 23.50	-0.9		
SPA	68.27	180 iPd	31 27.50	0.7		
	1.0s	37.00nm		5.5mb		
	Z 20s	5.54um		5.8Msz		
		i	59 38.70			
TSM	70.32	283 ePc	31 41.50	1.6		
KAKJ	71.60	323 P	31 46.70	-0.5		
CHJJ	72.15	322 P	31 50.00	-0.6		
IIDJ	72.38	321 P	31 51.10	-0.9		
OFUJ	72.91	326 eP	31 54.50	-0.4		
MAJO	72.95	322 iPc	31 54.36	-0.9		
		ed	31 57.92			
		epPd	32 00.24	19kmX		
		ec	32 10.34			
		eS	41 20.26			
		ePS	42 11.80			
		eSS	46 05.28			
NIIJ	73.00	323 P	31 54.90	-0.6		
YAMJ	73.10	324 P	31 55.80	-0.3		
MTMJ	73.21	322 P	31 56.30	-0.6		
CVP	73.24	297 iPc	31 58.00	0.7		
	0.8s	3.50nm		4.5mb X		
ADK	73.44	359 ePc	31 57.30	-0.4		
	1.2s	709.80nm		6.6mb		
TSRJ	73.55	320 P	31 58.50	-0.3		
BAG	73.63	296 eP	31 58.00	-1.8		
		eS	41 26.00			
KUSJ	74.49	331 eP	32 03.40	-0.6		
PIP	74.54	297 eP	31 59.20	-5.6X		
HOOJ	74.60	329 eP	32 05.40	0.7		
AOMJ	74.67	326 eP	32 06.40	1.3		
SMY	74.88	353 eP	32 05.70	-0.3		
	1.2s	1027.70nm		6.7mb		
MRRJ	75.70	328 eP	32 11.50	0.5		
ASAJ	76.23	330 eP	32 14.70	0.7		
SYP	76.70	44 eP	32 15.00	-2.0		
PRS	76.95	42 iPc	32 18.50	0.3		
BCH	77.04	43 P	32 18.20	-0.7		
SAO	77.18	42 eP	32 19.90	0.4		
PRI	77.27	42 eP	32 20.20	0.1		
ANP	77.30	304 eP	32 20.00	-0.5		
LLA	77.40	42 ePc	32 20.20	-0.5		
BRK	77.40	40 eP	32 21.10	0.5		
BKS	77.42	40 eP	32 21.60	0.8		
	1.2s	238.00nm		6.1mb		
	Z 20s	10.00um		6.1Msz		
	N 20s	6.00um				
	E 20s	6.00um				
		e	55 32.00			
MHC	77.43	41 iPc	32 21.30	0.3		
ARN	77.50	41 P	32 21.00	-0.3		
PAS	77.64	45 eP	32 22.00	-0.1		
MWC	77.77	45 eP	32 23.00	0.0		
BAR	77.78	47 eP	32 23.00	0.1		
SDN	77.89	8 ePc	32 22.40	-0.5		

1.3s 696.40nm 6.6mb
PLM 78.05 47 eP 32 24.00 -0.6
RVR 78.08 46 eP 32 24.00 -0.5
PEC 78.16 46 ePc 32 24.00 -1.0
ePP 32 38.00 49kmX
SBB 78.20 45 eP 32 24.00 -1.2
ISA 78.37 44 ePc 32 26.17 0.0
esPd 32 33.62
iS 42 23.84
esS 42 32.67
e 42 52.53
eS 47 19.03
FRI 78.40 42 ePc 32 25.80 -0.4
CMB 78.64 41 ePc 32 26.93 -0.6
ORV 78.95 39 eP 32 29.10 0.0
WDC 79.01 38 iPc 32 29.20 -0.3
TPC 79.03 46 eP 32 30.00 0.2
GSC 79.24 45 ePc 32 30.86 -0.1
ed 32 34.83
GLA 79.26 48 eP 32 31.00 0.0
MIN 79.40 39 eP 32 31.30 -0.5
LBFM 79.89 38 P 32 33.00 -1.5
TNP 80.63 43 ePc 32 37.70 -0.8
1.0s 52.50nm 5.5mb
epP 33 15.00 149kmX
ePP 35 39.80
SSE 80.67 309 iPc 32 38.00 -0.5
5.0s 800.00nm 6.0mb X
Z 22s 4.94um 5.8Msz
N 23s 4.33um
E 23s 2.99um
sS 43 00.00
MAW 81.20 199 iP 32 43.20 2.5
1.0s 79.00nm 5.7mb
COR 81.27 35 ePc 32 41.25 -0.1
epPd 32 46.54 17kmX
eS 42 57.36
esS 43 05.31
HKC 81.74 298 iPd 32 45.60 1.3
eS 43 04.00
BMW 82.58 33 P 32 48.00 -0.3
GZH 82.78 298 Pc 32 50.00 0.3
5.0s 1700.00nm 6.4mb X
Z 22s 8.20um 6.1Msz
E 23s 8.10um
S 43 08.00
NJ2 82.87 309 Pc 32 50.50 0.5
7.0s 1600.00nm 6.3mb X
Z 24s 2.30um 5.5MszX
N 16s 1.70um
E 20s 2.60um
pP 33 00.00 30kmX
KGM 82.98 275 ePc 32 51.90 1.0
VGB 83.22 35 P 32 51.00 -0.6
MDJ 83.22 324 iPc 32 52.50 1.0
1.5s 1100.00nm 6.8mb
Z 24s 4.00um 5.7MszX
N 18s 2.70um
E 18s 2.50um
pP 33 08.00 54kmX
PP 36 00.00
LON 83.49 34 ePc 32 51.85 -1.1
esPd 32 59.38
QIZ 83.92 293 Pc 32 55.00 -0.6
N 20s 2.70um
E 22s 2.90um
eS 43 20.00
MSU 84.11 45 P 32 56.50 0.0
SVW 84.16 9 ePc 32 56.00 0.0
1.3s 57.40nm 5.6mb
MID 84.37 14 eP 32 57.10 0.1
DL2 84.61 316 iPc 32 59.00 0.4
2.0s 1000.00nm 6.7mb
Z 25s 3.30um 5.6MszX
N 20s 3.90um
E 22s 2.90um
S 43 20.00
SNY 85.03 319 iPc 33 01.00 0.4
2.0s 600.00nm 6.5mb
Z 18s 3.80um 5.8Msz
N 16s 2.00um
E 17s 1.50um
PP 36 14.00
iS 43 31.00
SS 49 01.00
CN2 85.07 321 iPc 33 01.70 0.9
5.0s 3000.00nm 6.8mb X

Z 20s 9.20um 6.2Msz
N 18s 1.00um
E 18s 2.20um
epP 33 14.00 41kmX
esP 33 19.00
ePP 36 17.00
eS 43 22.00
eSS 48 55.00
SIT 85.40 21 ePd 33 04.10 1.9
WHN 85.47 305 Pc 33 04.00 0.9
5.0s 1800.00nm 6.5mb X
Z 30s 2.40um 5.4MszX
N 18s 2.30um
E 18s 2.60um
pP 33 20.00 56kmX
SKS 43 20.00
S 43 30.00
PMR 85.74 12 ePc 33 04.00 0.2
1.7s 527.30nm 6.5mb
DAU 85.76 43 P 33 04.00 -0.8
TTA 85.84 9 ePc 33 05.50 1.1
1.3s 328.00nm 6.4mb
OXX 85.90 70 (P) 33 05.50 -0.3
IPM 86.06 276 ePc 33 07.00 0.5
0.9s 153.70nm 6.2mb
ALQ 86.14 50 iPc 33 06.60 -0.1
1.0s 76.25nm 5.9mb
Z 19s 5.21um 6.0Msz
epP 33 19.00 41kmX
ANMO 86.14 50 iPc 33 06.60 -0.1
1.0s 81.75nm 5.9mb
epP 33 11.48 15kmX
ed 33 20.09
eHPP 36 28.28
ePP 36 29.28
iS 43 44.23
YKU 86.14 17 ePd 33 08.50 2.7
TIA 86.23 311 Pc 33 07.40 0.6
7.0s 1600.00nm 6.3mb X
Z 22s 3.20um 5.7Msz
N 20s 2.70um
E 20s 1.60um
pP 33 16.00 27kmX
PNT 86.28 33 ePc 33 07.00 0.2
1.1s 203.00nm 6.2mb
KLU 86.31 14 P 33 06.00 -0.8
ANM 86.48 4 ePc 33 08.20 0.8
BALM 86.73 15 ePc 33 08.60 -0.3
TOA 86.80 13 iPc 33 10.30 1.2
1.4s 801.60nm 6.8mb
NEW 86.90 35 ePc 33 08.50 -1.4
1.0s 35.00nm 5.5mb
SNG 87.41 279 eP 33 14.80 1.8
1.3s 384.62nm 6.5mb
eS 44 16.00
LRM 88.04 38 eP 33 15.30 -0.4
BW06 88.11 42 ePc 33 14.60 -1.5
0.8s 13.10nm 5.3mb
PAF 88.51 216 iPd 33 36.00 18.3X
ePP 36 30.00
eS 44 12.00
eSS 50 24.00
LNV 88.64 126 eP 33 19.50 0.9
BJI 88.80 314 iPc 33 19.92 0.9
2.0s 995.00nm 6.8mb
Z 26s 4.60um 5.8MszX
N 17s 2.10um
ed 33 26.37
eSKS 43 40.00
eS 44 00.00
ePS 45 16.00
eSS 50 00.00
COL 89.01 11 iPc 33 19.16 -0.4
ed 33 31.58
eHPP 36 45.98
ePP 36 47.09
eSKS 43 46.41
eS 44 07.37
esS 44 15.38
iPS 45 10.00
FBA 89.01 11 ePc 33 19.60 0.0
1.5s 552.30nm 6.6mb
TACH 89.13 126 eP 33 22.00 1.0
IMA 89.15 9 ePc 33 21.10 0.7
1.4s 161.70nm 6.1mb
GOL 89.24 46 P 33 20.00 -1.6
0.9s 15.15nm 5.3mb

Z 18s 2.17um 5.6Msz
PCH 89.46 126 eP 33 23.00 0.3
PEL 89.54 126 iPc 33 24.00 1.0
PCT 89.54 286 eP 33 25.50 2.5
GYA 89.71 299 iPc 33 25.00 1.1
4.0s 1400.00nm 6.6mb X
Z 36s 4.10um 5.6MszX
N 20s 2.80um
E 20s 3.60um
sP 33 40.00
PP 37 00.00
S 44 13.00
sS 44 31.00
TIY 90.24 311 iPc 33 27.00 1.0
3.0s 1500.00nm 6.7mb
Z 22s 4.60um 5.9Msz
N 19s 3.20um
E 20s 2.40um
S 44 16.00
NNT 90.26 283 iPd 33 29.50 3.1X
LOE 90.30 289 eP 33 27.80 1.2
NST 91.06 286 P 33 34.00 4.0X
XAN 91.15 306 iPc 33 31.60 1.4
4.0s 1400.00nm 6.7mb X
N 17s 1.70um
E 20s 3.00um
sP 33 51.00
SES 91.38 35 eP 33 30.00 -0.9
1.4s 360.00nm 6.5mb
pP 33 44.00 47kmX
HIA 91.41 323 iPc 33 31.72 0.7
epPd 33 36.02 13kmX
esPd 33 38.34
ePP 37 02.84
KHT 92.10 285 iP 33 37.00 2.1
RSSD 92.25 43 ePd 33 35.40 0.1
0.9s 18.59nm 5.5mb
Z 19s 4.79um 6.0Msz
epP 33 46.50 35kmX
i 33 56.20
i 34 08.30
HHC 92.28 313 iPc 33 36.80 1.4
4.0s 1400.00nm 6.7mb X
Z 25s 11.70um 6.2MszX
N 19s 1.50um
E 20s 2.90um
PP 37 19.00
KMI 92.41 296 iPc 33 38.07 1.6
2.5s 820.00nm 6.7mb
Z 24s 8.20um 6.1MszX
eHPP 37 17.80
ePP 37 18.46
S 44 12.00
BDT 92.65 287 eP 33 36.80 -0.6
1.1s 133.20nm 6.3mb
PT10 92.92 104 e(P) 33 47.00 8.3X
NNA 93.06 104 iPc 33 40.50 1.0
1.5s 55.56nm 5.8mb
Z 22s 1.85um 5.5Msz
BTO 93.21 313 iPc 33 41.00 1.3
6.0s 1100.00nm 6.5mb X
N 18s 2.00um
E 22s 4.80um
pP 33 50.00 28kmX
CHG 93.29 289 iPc 33 42.10 1.8
1.2s 183.20nm 6.4mb
eS 44 20.00
CHTO 93.29 289 iPc 33 40.93 0.6
1.0s 77.00nm 6.1mb
ec 33 43.25
ePP 37 25.70
BRW 93.79 6 ePc 33 42.30 0.8
CD2 93.84 302 P 33 43.00 0.3
5.0s 860.00nm 6.4mb X
Z 22s 3.90um 5.8Msz
E 20s 3.60um
sP 33 59.00
SKS 44 17.00
UYO 94.66 55 iPc 33 45.20 -1.1
INK 94.89 14 ePc 33 46.00 -0.6
1.0s 49.00nm 5.9mb
pP 34 03.50 61kmX
LZH 95.78 306 iPc 33 52.94 1.3
2.0s 375.00nm 6.5mb
Z 20s 3.50um 5.8Msz
N 20s 3.01um
ec 33 55.42

03d 15h

		esPd	34	00.30			
		SS	34	14.00			
		eHPP	37	42.08			
		ePP	37	42.63			
		SKS	44	24.00			
		S	45	13.00			
		PS	46	34.00			
		SS	51	56.00			
ARE	96.01	110 eP	33	55.00	1.6		
		e	04	50.00			
-A	96.62	24 eP	34	08.70	14.1X		
	0.9s	13.10nm					
UPA	98.38	84 eP	34	15.00	11.4X		
	Z 20s	1.42um			5.5Msz		
CCM	98.53	53 ePc	34	01.59	-2.2		
		ePP	38	02.75			
		eS	45	32.73			
		ePS	46	56.05			
CNCB	98.91	112 P	34	09.00	2.3		
LPB	98.93	112 eP	34	09.00	2.4		
	2.0s	117.65nm			6.1mb		
		SKS	44	45.00			
		LR	06	27.00			
ZOBO	99.02	112 P	34	09.00	1.8		
		SKS	44	32.00			
C 2F	99.87	211 eP	34	15.00	5.1X		
		eS	44	15.00			
C A	99.96	308 Pc	34	11.00	0.5		
	3.1s	510.00nm			6.5mb X		
	Z 22s	6.50um			6.1Msz		
	E 20s	4.90um					
		PP	38	12.00			
		SKS	44	48.00			
		S	45	42.00			
		sS	45	52.00			
CCH	100.23	113 ePdiff	34	13.00	0.5		
MBC	103.55	12 ePdiff	34	26.00	0.5		
	1.0s	6.00nm			5.3mb		
GUN	107.57	294 Pdiff	34	48.80	3.8X		
PKI	107.88	293 Pdiff	34	46.10	-0.3		
KKN	108.05	293 Pdiff	34	48.70	1.7		
DMN	108.15	293 Pdiff	34	47.80	0.3		
GKN	108.66	293 Pdiff	34	50.20	0.6		
WMQ	109.90	310 ePdiff	34	53.91	-0.7		
	2.0s	45.00nm					
	Z 24s	8.84um			6.3MszX		
		eHPP	39	27.35			
		ePP	39	28.02			
GBA	110.99	277 PKP	39	01.00	1.3		
HYB	111.13	281 ePdiff	35	00.00	-0.6		
NDI	115.17	292 iPKP	39	06.50	-0.9		
		ePP	40	12.00			
FRB	116.68	29 ePKP	39	09.00	-0.2		
SCH	118.07	39 ePKP	39	11.00	-1.2		
GDH	121.27	21 ePKP	39	17.00	-0.7		
		e	48	03.00			
		e	50	54.00			
		e	57	33.00			
KBS	122.80	358 ePKP	39	20.20	-0.3		
DAG	123.80	6 iPKPd	39	20.70	-1.8		
	0.9s	20.17nm					
	Z 19s	5.14um			6.2Msz		
	N 19s	3.61um					
PDCR	124.89	124 ePKP	39	25.10	-1.2		
SOB1	125.45	120 ePKP	39	27.20	-0.3		
PRY	126.82	205 iPKPc	39	38.00	8.0X		
	1.0s	25.00nm					
BFT	126.83	209 iPKPd	39	30.50	0.3		
	1.3s	57.69nm					
SLR	127.54	207 iPKPc	39	31.00	-0.4		
	1.5s	111.11nm					
	Z 20s	4.96um			6.2Msz		
KEV	130.30	350 ePKPc	39	34.32	-0.8		
	1.3s	132.20nm					
		eHPP	41	40.72			
		ePP	41	44.03			
		iSKP	42	59.19			
TRO	131.49	354 ePKP	39	36.80	-0.5		
BUL	132.27	211 iPKPc	39	41.10	0.6		
		iPP	42	18.90			
		i	43	10.00			
		iSKP	43	20.60			
SOD	132.49	349 iPKP	39	37.60	-1.7		
KAF	137.19	345 ePKP	39	35.00	-13.4X		
NUR	138.98	345 iPKP	39	42.00	-9.7X		
	1.1s	79.20nm					
		i	39	51.20			

NAO	140.86	355 PKP	39	46.80	-8.4X		
	1.4s	87.50nm					
UPP	140.99	350 iPKP	39	47.70	-7.7X		
TAB	141.03	304 ePKP	39	50.00	-6.4X		
HFS	141.27	353 ePKP	39	47.70	-8.2X		
	0.8s	36.10nm					
NAI	141.31	238 iPKPc	39	54.70	-3.0X		
RYD	141.73	283 PKP	39	53.50	-4.4X		
ABHA	144.36	271 PKP	40	04.10	1.3		
ELO	144.85	8 ePKP	40	01.40	-0.8		
EDU	144.87	8 ePKP	40	01.50	-0.7		
EAB	145.04	9 ePKP	40	02.10	-0.4		
AAE	145.09	254 ePKP	40	04.50	0.3		
EBH	145.10	8 ePKP	40	02.30	-0.3		
MUD	145.31	356 iPKPc	40	02.30	-0.6		
	1.2s	630.00nm					
EDI	145.46	8 ePKP	40	03.50	0.3		
	1.1s	166.00nm					
EAU	145.50	8 ePKP	40	03.80	0.5		
	0.9s	319.00nm					
ESY	145.53	8 ePKP	40	03.50	0.1		
COP	145.77	352 iPKPc+	40	04.00	0.3		
	1.0s	492.00nm					
BSD	145.97	350 iPKPd	40	06.40	2.3X		
	1.1s	520.00nm					
EKA	146.03	8 PKP	40	04.00	-0.2		
	0.9s	64.60nm					
ESK	146.04	8 iPKPd	40	05.00	0.8		
	0.7s	58.00nm					
VAL	147.76	18 iPKP	40	10.20	3.2X		
ETA	148.05	13 ePKP	40	11.00	3.5X		
GAZ	148.23	306 iPKP	40	12.30	4.0X		
ECP	148.50	13 ePKP	40	11.40	3.2X		
	1.3s	320.00nm					
BRL	148.78	350 ePKP	40	10.00	1.4		
IAS	148.83	330 ePKP	40	13.00	4.1X		
BRN	148.84	350 ePKP	40	09.50	0.7		
		ic	40	13.70			
KAS	148.91	315 ePKP	40	10.00	0.6		
WIT	149.08	358 ePKP	40	11.00	1.9		
KRA	149.48	341 ePKPd	40	10.20	0.3		
	1.5s	584.00nm					
		i	40	14.70			
		i	40	20.70			
PTT	149.56	330 ePKP	40	12.00	1.9		
KSP	149.74	346 ePKPc	40	10.50	0.3		
	1.5s	708.00nm					
		ic	40	15.80			
		i	40	33.00			
		e	43	40.50			
DBN	149.82	360 ePKP	40	14.00	3.8X		
WTS	149.89	358 ePKP	40	10.00	-0.4		
CLL	149.95	350 iPKP	40	10.70	0.2		
	1.6s	820.00nm					
	Z 18s	3.50um			6.2Msz		
		i	40	16.20			
CFR	149.95	326 ePKP	40	10.00	-0.7		
SPC	150.15	340 ePKP	40	11.40	0.3		
		i	40	15.90			
		i	40	41.80			
		i	41	07.60			
		e	43	46.40			
VRI	150.18	329 ePKPd	40	11.50	0.4		
BRG	150.20	348 iPKP	40	10.80	-0.1		
		i	40	16.40			
		i	40	25.00			
		eSKP	43	47.80			
BMR	150.24	334 ePKPd	40	29.00	17.9X		
BBTK	150.33	313 iPKPc	40	11.50	-0.1		
HRI	150.54	299 ePKP	40	12.00	-0.1		
CEI	150.64	335 ePKP	40	20.00	8.4X		
SHMJ	150.65	298 PKP	40	14.10	1.9		
ISR	150.80	328 ePKP	40	26.50	14.4X		
MOX	150.80	351 ePKP	40	11.50	-0.3		
	2.0s	137.00nm					
	Z 18s	3.80um			6.2Msz		
	N 18s	3 40um					
MLR	150.83	329 ePKPc	40	20.00	7.8X		
BNS	150.91	357 iPKPc	40	09.20	-2.7X		
	1.5s	657.00nm					
		ic	40	18.20			
PRU	150.93	347 PKPc	40	12.00	0.0		
	1.5s	290.20nm					
	Z 20s	5.10um			6.3Msz		
	N 20s	2.90um					
	E 20s	1.70um					
		i	40	18.00			

		i	40	26.00			
PSN	150.94	324 iPKPc	40	19.00	6.8X		
MKRJ	151.01	296 PKP	40	12.10	-0.7		
HOF	151.09	351 ePKP	40	12.80	0.5		
		i	40	28.30			
UCC	151.12	1 PKP	40	13.50	1.2		
		i+	40	19.00			
AYN	151.14	290 PKP	40	14.30	1.3		
ENN	151.15	359 ePKP	40	12.50	0.2		
JVI	151.18	297 ePKP	40	13.00	-0.1		
MEM	151.30	359 PKPd	40	12.90	0.4		
		ic	40	18.69			
PSZ	151.37	339 iPKP	40	13.20	0.3		
SNF	151.41	1 PKPd	40	13.40	0.7		
		ec	40	19.10			
FAM	151.41	304 ePKP	40	20.30	7.1X		
MTUR	151.45	329 ePKP	40	28.00	14.9X		
TNR	151.49	331 ePKPc	40	14.00	0.9		
GPA	151.71	316 iPKP	40	20.30	6.7X		
PRNI	151.79	294 ePKP	40	15.00	1.0		
GRF	151.79	351 ePKPc	40	13.50	0.1		
	Z 20s	3.00um			6.1Msz		
		e	40	20.20			
		e	40	29.10			
HRT	151.82	318 iPKP	40	19.50	5.8X		
DOU	151.83	0 PKP	40	14.00	0.6		
	Z 20s	4.80um			6.3Msz		
		ec	40	20.10			
DEV	151.91	333 iPKPd	40	22.00	8.4X		
HOL	151.91	291 PKP	40	15.00	0.9		
CSS	151.94	304 ePKP	40	14.00	-0.1		
KHC	151.94	348 iPKP	40	14.00	0.4		
	1.3s	175.00nm					
	Z 20s	5.40um			6.4Msz		
	N 20s	2.30um					
	E 20s	1.80um					
		i	40	21.00			
		e	40	47.50			
ABH	151.97	356 ePKP	40	13.46	-0.2		
ZST	151.98	343 ePKP	40	14.20	0.5		
		i	40	20.80			
		e	43	55.40			
BUD	152.03	339 e(PKP)	40	13.00	-0.7		
BADA	152.05	290 PKP	40	15.30	1.0		
ISK	152.06	319 iPKP	40	15.50	1.5		
WET	152.06	349 ePKP	40	13.70	-0.1		
ITU	152.06	319 iPKPc	40	12.00	-2.0		
VKA	152.13	344 iPKPc	40	14.20	0.3		
	7.0s	1567.00nm					
		i	40	32.40			
		e	43	57.00			
		i	44	09.80			
YLV	152.15	318 ePKP	40	14.00	-0.3		
DRA	152.24	330 ePKPd	40	23.00	8.9X		
DMK	152.37	321 iPKP	40	20.90	6.5X		
ALT	152.49	314 ePKP	40	20.30	5.5X		
JMB	152.62	324 iPKPd	40	14.00	-0.7		
PPCY	152.72	304 e(PKP)	40	14.50	-0.6		
TIM	152.72	335 iPKPc	40	13.00	-1.8		
FLN	152.82	8 ePKP	40	14.90	0.1		
	1.4s	95.85nm					
	Z 20s	6.25um			6.4Msz		
KMR	152.85	346 iPKP+	40	15.50	0.6		
		i	40	23.70			
		i	40	34.60			
		iPP	44	03.80			
GWF	152.86	356 PKP	40	15.50	0.6		
STU	152.94	354 i(PKP)	40	15.00	0.0		
	1.8s	154.55nm					
BCK	152.95	311 ePKP	40	13.50	-2.0		
UZD	152.96	339 iPKP	40	15.50	0.4		
KCT	152.97	318 ePKP	40	21.00	5.7X		
LDF	153.03	7 ePKP	40	15.20	0.1		
	1.4s	61.00nm					
GRR	153.13	9 ePKP	40	15.40	0.1		
	1.4s	65.35nm					
DST	153.17	317 ePKP	40	15.00	-0.7		
BNT	153.17	319 iPKP	40	23.50	7.9X		
EDC	153.21	319 ePKP	40	23.50	7.8X		
KHL	153.27	313 iPKP	40	22.90	7.0X		
FUR	153.27	351 ePKP	40	15.10	-0 4		
BHG	153.43	348 ePKP	40	15.20	-0.5		
CDF	153.45	357 ePKP	40	15.60	-0.2		
	1.6s	37.30nm					
LPF	153.46	9 ePKP	40	15.90	0.2		
	1.4s	87.15nm					
VITF	153.70	358 PKP	40	18.00	2.0		

ELL	153.76	310	iPKP	40	24.80	8.1X
BEO	153.79	334	ePKP	40	15.00	-1.3
PGB	153.85	326	iPKPd	40	16.00	-0.6
PLD	153.89	325	ePKP	40	15.00	-1.5
HAU	153.90	358	ePKP	40	16.20	-0.2
	1.6s		49.75nm			
	Z 20s		4.50um			6.3Msz
FEL	153.93	355	PKP	40	17.00	0.4
KBA	153.94	347	iPKPc	40	14.80	-1.9
	1.6s		74.20nm			
			ic	40	15.50	
			i	40	24.00	
			i	40	39.10	
			i	44	02.60	
			i	44	09.60	
SLE	154.00	355	ePKPd	40	16.80	0.2
WATA	154.03	350	iPKPc	40	15.60	-1.2
	1.4s		150.00nm			
			i	40	25.30	
			i	40	37.30	
WATA	154.03	350	iPKPc	40	16.00	-0.8
	1.7s		114.00nm			
			i	40	24.90	
			i	40	39.70	
			i	44	02.30	
			i	44	09.10	
BSF	154.05	357	PKP	40	18.00	1.3
RDO	154.08	323	ePKP	40	16.00	-0.8
MOTA	154.10	350	iPKPc	40	16.20	-0.7
	1.0s		79.60nm			
			i	40	24.60	
			i	40	38.70	
RZN	154.17	324	iPKPd	40	17.00	-0.2
SOTA	154.20	350	iPKPc	40	15.70	-1.3
	2.1s		127.00nm			
			ic	40	16.20	
			i	40	25.00	
			i	40	40.10	
			i	44	03.00	
			i	44	10.50	
			i	44	22.60	
ZLA	154.29	355	ePKP+	40	17.90	0.9
VTS	154.30	328	iPKPd	40	17.00	-0.3
EZN	154.47	319	ePKP	40	17.30	0.0
LOMF	154.53	357	PKP	40	19.00	1.7
OGA	154.58	350	iPKPc	40	17.70	0.1
LOR	154.64	2	ePKP	40	17.60	0.2
	1.4s		67.55nm			
	Z 20s		9.00um			6.6Msz
LJU	154.65	344	ePKP	40	17.50	0.1
YER	154.72	312	iPKP	40	26.10	8.2X
IZM	154.72	316	ePKP	40	19.00	1.2
MMB	154.77	325	ePKP	40	17.00	-0.8
VOY	154.81	345	ePKPc	40	17.30	-0.5
SSF	154.84	2	ePKP	40	17.90	0.3
	1.6s		87.05nm			
PRK	154.86	318	ePKP	40	18.00	0.1
OSS	154.88	352	ePKPd	40	18.50	0.6
KKB	154.90	327	ePKP	40	17.00	-0.9
LBF	154.93	2	ePKP	40	17.90	0.1
	1.6s		80.85nm			
VBY	154.95	343	ePKPc	40	18.10	0.3
CEY	154.96	344	ePKPc	40	17.90	0.0
MFF	154.98	8	ePKP	40	18.20	0.4
	1.4s		52.30nm			
HLW	154.99	294	ePKP	40	18.00	-0.3
AVF	155.10	3	ePKP	40	17.90	-0.1
	1.6s		40.40nm			
TRI	155.15	345	ePKP	40	15.90	-2.1
			e	40	26.80	
			i	40	42.60	
VDL	155.17	353	ePKPc	40	19.70	1.3
SRS	155.17	325	ePKPd	40	17.80	-0.5
VVI	155.18	348	PKP	40	18.00	-0.2
SMF	155.27	2	ePKP	40	18.20	0.0
	1.5s		33.95nm			
CTI	155.27	349	PKP	40	17.90	-0.5
RIY	155.33	344	ePKP	40	18.00	-0.3
KNT	155.51	326	ePKPd	40	17.40	-1.4
TCF	155.54	5	ePKP	40	18.90	0.2
	1.6s		43.55nm			
VAY	155.56	327	iPKP	40	18.00	-0.8
	1.2s		189.00nm			
			i	40	28.40	
			i	40	46.00	
MAF	155.63	4	ePKP	40	19.20	0.4
	1.7s		58.80nm			
SKO	155.63	329	iPKPc	40	18.50	-0.4
	1.5s		141.00nm			
SKO	155.63	329	iPKP	40	27.00	8.1X
	Z 19s		3.11um			6.2Msz
	N 20s		2.47um			
	E 19s		2.48um			
			i	40	46.00	
			iPP	44	21.50	
			i	44	58.00	
			iSKS	51	04.00	
			iSKSP	54	20.00	
MMK	155.75	355	ePKPd	40	20.30	1.0
DIX	155.76	356	ePKPd	40	20.30	1.0
EMS	155.80	357	ePKPd	40	20.00	0.7
MDI	155.83	352	PKP	40	18.60	-0.4
VAI	155.86	353	PKPc	40	18.50	-0.5
LPL	156.37	357	ePKP	40	20.70	0.6
	1.6s		43.55nm			
LPG	156.38	357	ePKP	40	20.70	0.5
	1.6s		59.10nm			
RJF	156.45	6	ePKP	40	20.20	0.3
	1.5s		57.45nm			
LIT	156.48	325	ePKPd	40	19.98	-0.2
FNA	156.56	327	ePKPd	40	19.90	-0.4
SSB	156.65	1	PKP	40	21.28	1.1
KZN	156.72	326	ePKP	40	20.00	-0.5
LFF	156.73	8	ePKP	40	20.70	0.5
	1.4s		69.70nm			
BOB	156.86	352	PKP	40	20.70	0.2
CAF	156.88	5	ePKP	40	21.20	0.7
	1.6s		49.75nm			
LPO	157.03	7	ePKP	40	21.20	0.5
	1.6s		68.40nm			
RSM	157.14	346	PKP	40	21.40	0.6
MME	157.23	349	PKP	40	33.61	12.4X
SFI	157.27	347	PKP	40	21.40	0.5
AGG	157.33	323	ePKPc	40	20.00	-1.2
CKI	157.33	354	PKP	40	19.20	-1.8
PGD	157.34	347	PKP	40	21.10	-0.2
ARV	157.43	345	PKP	40	21.40	0.2
FIR	157.53	348	iPKP	40	21.00	-0.2
			i	40	53.00	
CRE	157.53	347	PKP	40	20.70	-0.7
CIO	157.66	344	ePKP	40	21.00	-0.6
TOUF	157.83	356	PKP	40	23.50	1.6
ASS	157.90	345	PKP	40	20.70	-1.1
ALP	157.93	343	ePKP	40	21.15	-0.8
SBF	157.97	355	ePKP	40	21.70	-0.2
	1.5s		94.00nm			
CALN	158.11	356	PKP	40	24.00	1.8
KEK	158.16	328	ePKP	40	23.00	0.8
BCAO	158.23	219	iPKPc	40	22.20	-0.8
	1.0s		170.00nm			
			i	40	57.80	
			i	44	51.50	
CDR	158.24	358	ePKPc	40	22.30	0.2
			e	40	56.50	
			e	44	31.70	
FRF	158.32	357	ePKP	40	22.30	0.1
	1.5s		67.90nm			
BTH	158.37	10	PKP	40	23.70	1.4
			e	40	35.00	
			sP	40	42.00	
			PP	45	32.00	
			SKS	47	00.00	
ECRI	158.40	15	iPKPc	40	23.10	0.7
LRG	158.44	357	ePKP	40	22.60	0.3
	1.5s		78.35nm			
	Z 20s		6.00um			6.4Msz
MNS	158.54	344	PKP	40	21.60	-0.9
EPF	158.55	9	ePKP	40	23.20	0.6
	1.5s		88.80nm			
LMR	158.55	357	ePKP	40	22.60	0.2
	1.5s		73.10nm			
DUI	158.70	340	PKP	40	23.20	0.4
AZI	158.71	342	PKP	40	22.80	0.2
RMP	159.07	344	PKP	40	23.40	0.3
PGF	159.10	352	PKP	40	24.00	0.8
RDP	159.12	344	PKP	40	24.30	1.1
ORI	159.39	334	PKP	40	23.60	0.1
SGO	159.40	337	PKP	40	23.90	0.5
EPLA	159.58	25	iPKPd	40	25.10	1.3
MGR	159.67	336	PKP	40	23.40	-0.4
GUD	159.75	20	iPKPd	40	25.70	1.6
TDS	159.77	334	PKP	40	24.60	0.7
TOL	160.48	21	iPKPc	40	26.00	1.3
	1.2s		93.75nm			
			iPKKP	41	07.00	
			ePP	44	46.00	
EBR	160.73	10	ePKP	40	26.00	1.2
			ePP	44	50.00	
SOI	161.22	332	PKP	40	27.00	1.6
ECHE	161.63	15	iPKPd	40	27.50	1.6
LIC	161.70	147	PKP	40	26.34	-0.3
EHOR	161.83	27	ePKPc	40	27.50	1.5
KIC	161.96	147	PKP	40	26.58	-0.3
TIC	162.06	146	PKP	40	26.98	0.0
EBAN	162.10	23	iPKPd	40	28.40	2.0
EVIA	162.10	19	iPKPd	40	28.10	1.6
LIJA	162.53	29	ePKP	40	29.50	2.6X
EPRU	162.56	28	iPKPd	40	29.00	2.1X
CNIL	162.67	31	ePKP	40	29.50	2.6X
EJIF	162.88	30	iPKPd	40	29.50	2.3X
ECOG	162.97	24	iPKPc	40	27.70	0.3
AFC	163.00	24	iPKPc	40	27.40	-0.1
PLAT	163.01	31	ePKP	40	29.50	2.2X
MAL	163.11	27	iPKPc	40	28.00	0.7
			i	41	19.00	
LEGH	163.13	162	ePKP	40	28.50	0.5
EALH	163.14	18	iPKPd	40	28.50	1.1
KOGH	163.53	162	ePKP	40	29.00	0.5
KUK	163.59	161	ePKP	40	28.50	0.0
ENIJ	163.72	21	iPKPd	40	28.60	0.6
LKO	164.11	139	PKP	40	28.38	-0.7
	1.6s		108.00nm			
AVE	164.22	41	iPKP	40	29.50	0.9
			i	41	14.00	
IFR	165.38	35	iPKPd	40	32.00	2.2X
TIO	165.83	48	iPKP	40	31.50	1.3
			i	40	47.00	

S.D. = 1.0 on 388 of 458 obs.

% MAR 03, 1991 15h 28m 18.92± 0.48s
40.605 N ± 4.8km 29.061 E ± 3.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YLV	0.24	99	iPg	28	24.50	0.4
IZI	0.41	130	iPg	28	27.10	-0.3
			eSg	28	31.00	
ISK	0.46	360	iPg	28	28.00	-0.3
			iSg	28	34.00	
HRT	0.51	65	iPg	28	29.00	-0.3
			eSg	28	36.00	
KCT	0.64	237	ePg	28	31.50	-0.4
			eSg	28	41.50	
BNT	0.91	254	iPg	28	36.50	0.2
			eSg	28	49.50	
EDC	0.95	255	iPg	28	36.50	-0.5
			eSg	28	52.00	
DST	1.05	199	ePn	28	39.20	0.4
DMK	1.56	321	ePn	28	47.40	0.6

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

? MAR 03, 1991 15h 44m 39.53± 1.22s
16.344 N ±11.9km 61.517 W ±11.9km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)
ML 3.0 (FDF).

SEG	0.06	11	ePd	44	45.18	0.1
			S	44	58.90	
SFG	0.32	106	ePd	44	48.18	0.6
			S	45	04.50	
DOG	0.33	197	iPd	44	48.02	0.4
			S	45	04.00	
PAG	0.35	207	eP	44	48.20	0.2
			S	45	05.60	
DEG	0.44	94	ePd	44	48.53	-0.8
			S	45	06.00	
MGG	0.47	156	eP	44	50.70	1.1
BBL	0.82	177	ePd	44	53.04	-1.6

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

? MAR 03, 1991 15h 54m 49.14±10.97s
42.207 N ±55.5km 18.361 E ±53.9km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.9 (TTG).

HCY	0.26	23	ePg	54	54.50	-0.2
			iSg	54	59.80	
BDV	0.35	77	ePg	54	57.00	0.5
			eSg	55	03.00	

03d 15h

TTG 0.70 71 ePg 55 02.40 -0.6
eSg 55 13.20
BRY 0.71 11 ePg 55 03.40 0.2
eSg 55 16.00
S.D. = 0.9 on 4 of 4 obs.

? MAR 03, 1991 16h 01m 45.15± 1.12s
32.133 S ± 8.5km 117.441 E ±12.3km
DEPTH = 10.0km (geophysicist)
WESTERN AUSTRALIA (590)

KLB 0.60 27 iPd 01 56.90 -0.4
iS 02 04.90
NWAO 0.81 192 iPc 02 01.00 0.1
iS 02 11.60
MUN 1.06 278 iPd 02 04.60 -0.5
iS 02 18.30
BAL 1.65 337 eP 02 15.00 0.8
eS 02 36.50
S.D. = 1.0 on 4 of 4 obs.

• MAR 03, 1991 16h 36m 28.89± 1.70s
7.366 S ±10.7km 128.386 E ±10.2km
DEPTH = 134.9 ± 18.6 km
4.5mb (6 obs.)
BANDA SEA (280)

KUPT 5.48 239 eP 37 49.00 -0.4
MTN 6.08 154 eP 37 58.00 0.3
KNA 8.34 177 iPc 38 38.00 9.7X
eS 39 54.00
WB2 13.78 156 eP 39 35.70 -4.1X
0.2s 9.60nm 4.8mb
eS 41 59.00
MBL 16.01 210 eP 40 08.00 0.2
QIS 17.03 141 eP 40 20.00 -0.4
eS 43 20.00
ASPA 17.05 163 eP 40 20.60 -0 1
0 4s 15.70nm 4.7mb
iS 43 20.80
WARB 18.79 185 eP 40 40.30 -0.2
0.3s 4.00nm 4.2mb
eS 44 01.00
NANU 19.53 218 eP 40 49.00 0.7
STK 27.32 155 iPc 42 12.80 9.9X
0.6s 4.00nm 4.2mb
CHTO 38.98 312 eP 43 45.30 1.5
1.0s 1.75nm 3.8mb
LZH 48.99 334 eP 45 04.80 0.9
2.5s 48.00nm 4.8mb
GUN 54.00 312 P 45 41.50 -0.3
PKI 54.16 312 P 45 42.20 -0.8
KKN 54.37 312 P 45 44.10 -0.3
DMN 54.40 312 P 45 44.20 -0.5
GKN 54.97 312 P 45 47.80 -0.8
S.D. = 0.8 on 14 of 17 obs.

% MAR 03, 1991 17h 10m 06.96± 0.59s
40.631 N ± 5.9km 29.030 E ± 4.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YLV 0.27 104 iPg 10 12.90 0.2
ISK 0.44 3 iPg 10 15.90 0.1
iSg 10 21.90
IZI 0.45 131 iPg 10 16.00 -0.1
eSg 10 22.40
HRT 0.52 68 iPg 10 17.40 -0.1
iSg 10 24.90
KCT 0.64 234 ePg 10 21.00 1.2
BNT 0.89 252 ePg 10 24.00 0.0
eSg 10 37.00
EDC 0.93 253 ePg 10 24.00 -0.8
DST 1.07 197 ePn 10 26.70 -0.4
S.D. = 0.7 on 8 of 8 obs.

& MAR 03, 1991 17h 40m 16.70s
36.325 N 120.933 W
DEPTH = 11.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.9 (BRK), 3.4 (PAS).

PRI 0.28 130 iPc 40 22.80 0.0
LLA 0.29 358 iP 40 22.60 -0.3
iS 40 28.17
PRS 0.35 271 iPd 40 23.50 -0.5
iS 40 28.17

SAO 0.60 317 iP 40 27.40 -1.4
PKEM 0.72 111 eP 40 30.70 0.0
ARN 1.13 335 eP 40 37.00 -0.8
MHC 1.16 331 eP 40 37.50 -0.9
FRI 1.19 56 iPd 40 37.20 -1.6
iS 40 52.20
BCH 1.33 148 eP 40 39.50 -1.7
PCC 1.65 316 eP 40 45.20 -0.5
CMB 1.76 14 eP 40 46.20 -1.2
iS 41 05.90
BKS 1.87 326 iPd 40 50.70 1.9
eS 41 11.70
BRK 1.87 326 eP 40 51.50 2.6
ZSP 1.93 327 iPd 40 51.90 2.1
ABL 2.03 136 eP 40 49.00 -2.4
ISA 2.10 108 eP 40 50.90 -1.4
ORV 3.26 352 eP 41 10.00 1.3
KVN 3.53 39 eP 41 13.00 0.3
18 obs. associated

• MAR 03, 1991 18h 05m 15.77± 1.72s
7.862 S ±19.3km 126.249 E ±13.3km
DEPTH = 33.0km (normal)
4.6mb (2 obs.)
BANDA SEA (280)

KUPT 3.46 229 ePd 06 09.00 0.3
eS 06 46.00
MTN 6.90 136 iPd 07 02.40 5.2X
0.3s 250.00nm 6.6mb X
KNA 8.22 163 eP 07 19.00 3.3X
WRA 14.34 148 iPd 08 37.30 -1.3
0.2s 18.10nm 5.3mb X
eS 11 08.00
WB2 14.35 148 iPd 08 37.30 -1.4
0.2s 18.10nm 5.3mb X
eS 11 08.00
MBL 14.60 204 eP 08 41.50 -0.4
eS 11 10.00
ASPA 17.34 156 iPd 09 20.70 3.6X
0.5s 11.70nm 4.3mb
iS 12 19.60
QIS 18.06 136 iPd 09 28.00 2.0
eS 12 38.00
WARB 18.22 179 eP 09 29.00 1.0
eS 12 42.00
GBA 52.94 294 Pd 14 31.30 -0.3
0.7s 9.00nm 4.8mb
S.D. = 1.5 on 7 of 10 obs.

MAR 03, 1991 18h 09m 01.53± 0.16s
39.173 N ± 4.4km 71.640 E ± 2.9km
DEPTH = 29.1km (5 depth phases)
5.0mb (53 obs.) 4.0Msz (2 obs.)
TAJIK SSR (715)
Felt (IV) at Dzhirgatal, (III)
at Obigorm and (II) at Khorog.

QUE 9.76 205 eP 11 23.10 -0.1
0.8s 384.33nm 6.7mb X
eS 13 20.80
NDI 11.44 154 iPc 11 45.00 -1.0
iS 13 52.00
WMQ 12.90 64 P 12 02.80 -2.8
GKN 15.52 132 P 12 35.30 -4.8X
KKN 16.05 131 P 12 42.40 -4.6X
DMN 16.09 132 P 12 43.60 -3.9X
PKI 16.29 131 P 12 44.60 -5.6X
GUN 16.32 129 P 12 45.80 -4.7X
LSA 18.63 115 iP 13 19.00 -0.4
TAB 19.80 275 eP 13 36.00 3.4X
POO 20.66 174 eP 13 40.50 -1.1
GTA 21.78 80 Pc 13 53.20 0.3
1.2s 60.00nm 4.9mb
Z 10s 0.96um 4.5MszX
sP 14 08.00
HYB 22.50 163 eP 14 00.00 -0.1
1.0s 50.00nm 4.9mb
eS 18 08.00
LZH 25.62 87 eP 14 31.20 1.0
1.2s 39.00nm 4.9mb
Z 20s 0.34um 3.9Msz
E 10s 0.39um
pP 14 40.00 31km
CD2 27.45 98 P 14 48.40 1.5
1.1s 37.00nm 5.0mb
KOD 29.28 168 eP 15 03.40 -0.5

BTO 29.33 75 eP 15 02.00 -1.9
N 14s 0.40um
E 14s 0.40um
BBTK 29.85 284 iPc 15 09.50 1.0
XAN 30.22 88 Pc 15 11.00 -0.8
HHC 30.44 74 P 15 15.00 1.2
CHG 31.14 123 eP 15 19.20 -0.8
CHTO 31.14 123 eP 15 19.00 -1.0
0.9s 2.13nm 4.0mb X
TIY 31.80 80 eP 15 26.00 0.3
GYA 31.85 103 P 15 26.60 0.3
BDT 32.32 125 eP 15 28.00 -2.3
MLR 34.00 296 eP 15 55.50 10.7X
e 21 45.00
KAF 35.69 325 eP 15 59.00 0.1
WHN 35.82 91 eP 16 01.00 0.7
pP 16 10.00 30km
TIA 35.83 80 eP 16 01.00 0.6
NUR 36.00 322 eP 16 01.00 -0.5
0.7s 18.70nm 5.1mb
NNT 36.32 129 eP 16 05.20 0.5
VAY 37.12 289 eP 16 13.00 1.9
SPC 37.53 303 eP 16 14.70 -0.1
SOD 37.56 333 iP 16 14.70 0.2
KRA 37.67 304 eP 16 15.20 -0.5
0.6s 33.00nm 5.4mb
SKO 37.80 291 eP 16 17.00 0.1
KEV 38.53 337 eP 16 26.00 3.4X
UPP 39.32 320 iP 16 28.60 -0.7
KSP 39.94 306 eP 16 35.00 0.4
e 18 05.00 487kmX
CN2 39.98 65 eP 16 35.00 0.0
SSE 40.89 86 P 16 43.50 0.9
PRU 41.15 305 eP 16 45.50 1.0
e 16 52.50 24km
SNG 41.16 133 eP 16 46.20 1.2
HFS 41.31 320 eP 16 44.70 -1.0
0.5s 19.90nm 5.1mb
BRG 41.42 306 iP 16 47.20 0.5
1.4s 29.00nm 4.8mb
LJU 41.80 299 e(P) 16 51.00 1.0
KHC 41.89 303 P 16 51.70 1.0
CEY 41.94 298 e(P) 16 52.50 1.4
CLL 41.95 307 eP 16 51.00 -0.1
1.3s 15.00nm 4.6mb
e 18 30.00 550kmX
VOY 42.24 299 e(P) 16 54.20 0.5
TRI 42.40 298 eP 16 55.20 0.4
KBA 42.40 300 eP 16 55.50 0.4
1.0s 6.30nm 4.3mb
i 17 06.00 36km
MGR 42.57 290 P 16 57.20 0.9
SGO 42.63 291 P 16 58.00 1.3
NAO 42.76 321 P 16 56.20 -1.4
0.9s 14.00nm 4.7mb
MOX 42.91 306 eP 17 00.00 1.0
GRF 43.32 305 ePd 17 03.60 1.3
Z 20s 0.30um 4.2Msz
e 17 10.80 24km
e 17 22.40
e 17 30.50
IPM 43.53 135 ePc 17 05.70 1.4
0.8s 58.30nm 5.4mb
CTI 43.76 299 P 17 06.00 -0.1
SFI 44.15 296 P 17 10.70 1.6
PGD 44.25 296 P 17 11.60 1.4
OSS 44.63 301 ePc 17 12.70 -0.5
MME 44.88 297 P 17 18.10 2.8
BDI 44.98 297 P 17 16 30 0.4
SAX 45.03 302 ePc 17 16.50 0.0
VDL 45.13 300 ePc 17 16 90 -0.3
LLS 45.35 301 ePc 17 18.50 -0.5
SLE 45.47 302 ePd 17 19.90 0.2
BOB 45.59 298 P 17 21.60 0.9
ZLA 45.61 302 ePd 17 20.80 0.0
VAI 45.75 300 P 17 20.50 -1.4
CDF 46.12 304 eP 17 24.60 -0.2
0.8s 8.05nm 4.7mb
PCP 46.27 298 P 17 25.45 -0.6
ORX 46.35 300 P 17 25.04 -1.7
PGF 46.54 295 eP 17 28.40 0.1
0.7s 11.00nm 4.9mb
BSF 46.57 303 eP 17 28.20 -0.3
0.7s 13.25nm 5.0mb
FIN 46.59 298 P 17 27.39 -1.2
DIX 46.61 300 ePd 17 29.30 0.3
ROB 46.80 298 P 17 32.21 1.9

HAU	46.82	303	eP	17	29.90	-0.4	LIC	75.76	266	P	20	46.90	0.3	ITU	0.47	3	ePg	20	28.00	1.9
	0.7s	9.90nm			4.9mb		YKA	78.56	3	eP	21	01.10	-0.2	IZI	0.48	128	iPg	20	25.80	-0.5
IMI	46.90	297	P	17	30.98	-0.1		0.8s	12.50nm			5.0mb		HRT	0.56	70	iPg	20	26.80	-1.0
KGM	46.92	134	eP	17	33.30	1.9	WRA	82.99	123	P	21	25 00	-0.4	KCT	0.61	231	iPg	20	28.90	0.1
EMS	46.94	301	ePc	17	31.40	-0.1		0.6s	13.10nm			5.2mb		BNT	0.85	251	iPg	20	33.30	0.4
LSD	46.96	300	P	17	31.19	-0.5	WB2	83.00	123	iPc	21	25.50	0.1	EDC	0.90	252	iPn	20	34.00	0.3
RSP	46.97	299	P	17	28.93	-2.8		0.6s	30.00nm			5.5mb		DST	1.06	195	iPn	20	36.90	0.4
BHB	47.06	299	P	17	30.27	-2.0	ASPA	85.38	125	eP	21	37.50	0.1	GPA	1.07	108	iPn	20	36.50	-0.2
ENR	47.13	298	P	17	31.91	-1.0		0.8s	7.80nm			5.0mb		DMK	1.50	323	iPn	20	43.40	-0.1
DOI	47.17	298	P	17	33.30	0.1	FFC	86.31	356	iPd	21	42.10	0.5	ALT	1.80	151	ePn	20	48.50	0.6
STV	47.19	298	P	17	32.01	-1.4		0.9s	30.00nm			5.5mb		EZN	2.19	249	ePn	20	53.00	-0.4
LPG	47.22	300	eP	17	34.20	0.4	EDM	87.88	3	eP	21	50.00	0.7	KHL	2.35	169	iPn	20	57.10	1.3
	0.7s	34.15nm			5.5mb		PNT	91.33	7	eP	22	06.00	0.4	JMB	2.57	316	eP	21	01.00	2.2X
LPL	47.22	300	eP	17	34.10	0.3		0.8s	19.00nm			5.5mb					Sg	21	40.00	
	0.7s	25.90nm			5.4mb			S.D. = 0.9 on 134 of 142 obs.						IZM	2.60	211	ePn	20	59.00	-0.3
SBF	47.23	297	eP	17	34.00	0.3	----------							KDZ	2.87	292	iP	21	04.00	0.8
	0.7s	35.30nm			5.5mb		& MAR 03, 1991 19h 06m 25.22s							BBTK	3.00	104	eP	21	13.00	7.9X
PZZ	47.27	298	P	17	32.73	-1.3	62.970 N 150.981 W										iS	21	51.00	
RRL	47.36	299	P	17	34.67	-0.2	DEPTH = 115.1km							RZN	3.39	290	eP	21	10.00	-0.6
BNI	47.40	299	P	17	35.10	0.0	CENTRAL ALASKA (1)							BCK	3.41	158	ePn	21	14.00	3.2X
FOUF	47.48	299	ePc	17	35.74	0.2	<AEIC>.							YER	3.54	189	ePn	21	13.00	0.4
FRF	47.87	297	eP	17	38.70	0.1								PLD	3.54	296	eP	21	12.00	-0.6
	0.7s	15.45nm			5.1mb		TRF	0.58	33	ePc	06	43.16	-0.5	KAS	3.70	77	ePn	21	22.50	7.5X
LRG	48.10	297	eP	17	40.60	0.2				eS	06	57.20					iSg	22	05.00	
	0.7s	6.60nm			4.8mb		HUR	0.61	89	ePc	06	43.28	-0.4	MMB	4.08	285	iPd	21	19.00	-1.3
LOR	48.64	303	eP	17	43.30	-1.2				eS	06	57.16		VTS	4.75	296	iP	21	29.00	-1.0
	0.7s	8.25nm			4.9mb		CUT	0.66	150	iPc	06	43.85	-0.1	VAY	4.90	280	ePn	21	50.50	18.6X
LBF	48.64	302	eP	17	44.00	-0.6	SKT	1.03	195	iPd	06	46.93	-0.5		S.D. = 0.8 on 21 of 26 obs.						
	0.7s	5.50nm			4.7mb					eS	07	03.47		----------							
SMF	48.83	302	eP	17	45.70	-0.3	RND	1.06	65	iPc	06	47.30	-0.5	& MAR 03, 1991 20h 38m 48.81s							
	0.7s	8.80nm			4.9mb		MCK	1.20	49	ePc	06	48.78	-0.5	60.120 N 152.830 W							
SSF	48.93	303	eP	17	46.30	-0.4	BWN	1.38	29	ePd	06	51.21	-0.1	DEPTH = 113.6km							
	0.7s	7.15nm			4.8mb		PWA	1.42	158	ePc	06	51.59	-0.2	SOUTHERN ALASKA (2)							
AVF	49.11	302	eP	17	47.80	-0.3	SUA	1.52	176	ePd	06	53.46	0.4	<AEIC>.							
	0.8s	25.50nm			5.3mb					eS	07	14.22									
BGF	49.51	302	eP	17	51.00	-0.2	GHO	1.54	141	ePc	06	52.75	-0.5	RED	0.30	5	iPc	39	04.58	0.8
	0.7s	13.25nm			5.1mb					eS	07	14.31		RSO	0.35	6	iPc	39	04.98	-0.7
MAF	49.80	302	eP	17	53.50	0 0	PLRM	1.63	147	ePc	06	53.30	-1.0				eS	39	17.88	
	0.7s	27.55nm			5.4mb		NCG	1.67	200	ePd	06	54.04	-0.8	RS2	0.35	6	iPc	39	04.95	-0.8
TCF	50.01	302	eP	17	55.30	0.2	CRP	1.80	198	eP	06	55.95	-0.6				eS	39	18.46	
	0.7s	13.25nm			5.1mb		NEA	1.82	27	ePd	06	55.30	-1.4	REF	0.38	10	iPc	39	05.13	-0.7
LSF	50.47	302	eP	17	58.10	-0.5	BGL	1.84	202	eP	06	56.58	-0.4				S	39	18.12	
	0.7s	9.90nm			4.9mb		PMS	1.86	158	ePc	06	56.26	-0.9	RDN	0.40	5	iPc	39	05.16	-0.7
CAF	50.55	300	eP	17	59.60	0.4				eS	07	19.68		NCT	0.45	354	iPc	39	05.30	-0.8
	0.7s	8.80nm			4.9mb		CKL	1.89	200	ePd	06	56.89	-0.8				eS	39	18.28	
EKA	50.75	315	Pc	18	00.20	-0.3	KNK	1.96	142	ePc	06	57.31	-1.1	RDT	0.50	25	iPc	39	05.65	-0.8
	0.9s	8.70nm			4.7mb					eS	07	22.43					eS	39	18.18	
RJF	50.79	301	eP	18	01.60	0.6	WRH	1.98	39	ePd	06	57.50	-1.2	HOM	0.76	127	eP	39	07.94	-0.3
	0.7s	11.00nm			4.9mb		CCB	2.19	39	iPd	07	00.08	-1.3				eS	39	23.14	
LDF	50.80	306	eP	18	00.40	-0.7	NKA	2.24	183	eP	07	03.90	2.0	PDB	0.76	245	iPd	39	07.37	-0.9
	0.7s	9.90nm			4.9mb		RDS	2.25	33	ePd	07	00.76	-1.3				iS	39	21.82	
FLN	50.98	306	eP	18	01.50	-0.9	HDA	2.30	49	eP	07	01.19	-1.6	NNL	0.77	95	iPc	39	08.69	0.3
	0.7s	7.70nm			4.8mb		MDM	2.34	30	ePd	07	01.81	-1.5	AUE	0.81	200	iPd	39	07.97	-0.8
LPO	51.22	300	eP	18	04.90	0.6	TOA	2.39	109	ePc	07	03.36	-0.7	AUH	0.82	203	eP	39	08.75	-0.2
	0.7s	11.00nm			4.9mb		FBA	2.39	35	ePd	07	02.68	-1.3	AUI	0.84	201	eP	39	08.27	-0.8
GRR	51.33	305	eP	18	04.10	-1.0	SLKM	2.50	171	eP	07	04.74	-0.7				eS	39	23.27	
	0.7s	19.85nm			5.2mb		RDT	2.50	196	eP	07	04.27	-1.2	XLV	0.87	139	ePd	39	08.78	-0.5
LFF	51.43	301	eP	18	06.20	0.4	PAX	2.52	88	iPd	07	04.98	-0.8				eS	39	24.19	
	0.8s	28.20nm			5.3mb					eS	07	34.34		CNPM	1.00	126	ePc	39	10.27	-0.4
MFF	51.45	303	eP	18	05.30	-0.7	SDG	2.54	98	eP	07	05.17	-0.8				eS	39	26.80	
DAG	52.34	343	eP	18	11.50	-0.9	GLM	2.57	36	ePd	07	05.03	-1.4	NKA	1.01	51	eP	39	11.34	0.7
	0.7s	23.29nm			5.2mb		NCT	2.59	202	eP	07	05.89	-0.8	BRLK	1.04	109	ePc	39	10.44	-0.6
EPF	52.37	299	eP	18	12.20	-0.9	RDN	2.61	200	ePd	07	05.91	-1.0				eS	39	27.39	
	0.6s	4.05nm			4.5mb		REF	2.62	199	eP	07	06.27	-0.9	CKL	1.11	12	iPd	39	11.16	-0.7
EBR	53.11	296	eP	18	18.00	-0.5	RS2	2.65	199	eP	07	07.11	-0.5				S	39	28.91	
TOL	56.66	297	eP	18	44.00	-0.4	RSO	2.65	199	eP	07	07.06	-0.6	BGL	1.17	10	iPd	39	11.96	-0.5
BCAO	59.10	248	iPd	19	01.10	-0.7	TZL	2.74	107	eP	07	07.56	-1.0	CRP	1.20	16	iPd	39	12.29	-0.6
	0.7s	15.00nm			5.2mb		GLI	2.79	137	eP	07	07.27	-2.0				eS	39	30.20	
BRW	64.59	15	ePd	19	38.20	0.3	KLU	2.79	120	ePc	07	07.37	-2.0	MCNL	1.21	220	ePd	39	11.64	-1.2
MBC	64.65	3	ePd	19	38.00	-0.1	VZW	2.83	131	eP	07	07.77	-2.1				eS	39	29.06	
	0.8s	47.00nm			5.7mb		VLZ	2.86	128	eP	07	07.97	-2.2	CDD	1.26	199	ePd	39	12.22	-1.3
ANM	67.38	23	ePd	19	56.30	0.5	KNIM	3.05	148	iPc	07	10.14	-2.6	NCG	1.33	14	ePd	39	13.53	-0.8
IMA	69.43	18	ePd	20	08.20	-0.4	CNPM	3.46	182	ePd	07	17.15	-1.1	SLKM	1.36	72	eP	39	13.53	-1.0
	0.6s	3.20nm			4.6mb		PDB	3.55	207	eP	07	18.19	-1.2				eS	39	32.41	
INK	71.19	10	ePd	20	19.00	-0.1	GLB	3.69	111	ePc	07	19.50	-1.9	SYI	1.53	171	ePd	39	15.44	-1.1
	0.7s	21.00nm			5.3mb		CDD	4.26	199	eP	07	28.50	-0.6				iS	39	36.00	
FBA	71.76	17	ePd	20	22.60	0.0	SYI	4.43	190	eP	07	29.79	-1.6	SEW	1.69	89	eP	39	17.22	-1.3
	0.7s	6.40nm			4.8mb		BALM	4.51	112	ePc	07	30.03	-2.6	SUA	1.69	36	ePd	39	17.95	-0.7
FRB	72.67	343	eP	20	28.00	0.1		48 obs. associated						PMS	1.97	54	eP	39	20.90	-1.1
SVW	72.92	22	ePd	20	31.70	2.1	----------							SKT	1.97	18	iPd	39	20.84	-1.3
LKO	74.15	269	P	20	37.08	-0.3	MAR 03, 1991 20h 20m 16.49± 0.35s							PWA	2.11	42	eP	39	23.53	-0.3
	0.8s	14.00nm			5.0mb		40.634 N ± 3.5km 28.978 E ± 3.2km							PLRM	2.34	49	eP	39	25.66	-1.1
PMR	74.28	19	eP	20	36.90	-0.4	DEPTH = 10.0km (geophysicist)							KNK	2.51	57	eP	39	27.07	-2.0
	0.9s	16.90nm			5.1mb		TURKEY (366)							GHO	2.53	47	ePc	39	27.19	-2.2
TOA	74.55	17	ePd	20	40.00	1.0								KNIM	2.55	83	ePc	39	26.95	-2.7
KIC	75.45	266	P	20	45.00	0.1	YLV	0.31	103	iPg	20	22.30	-0.6	MTU	2.60	91	eP	39	28.84	-1.4
TIC	75.49	267	P	20	45.30	0.2	ISK	0.44	8	iPg	20	25.80	0.4	CUT	2.61	27	eP	39	28.77	-1.5

03d 20h

GLI 2.94 72 eP 39 31.96 -2.8
37 abs. assaciated

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* MAR 03, 1991 22h 19m 25.95± 0.96s
3.626 S ± 7.9km 139.831 E ±19.1km
DEPTH = 33.0km (normal)
4.7mb (2 abs.)
WEST IRIAN (201)

MTN 12.57 223 eP 22 24.20 -1.1
0.3s 123.00nm 6.5mb X
eS 24 37.00
KNA 16.24 221 eP 23 14.00 0.7
QIS 16.83 181 eP 23 21.00 0.2
eS 26 17.00
WB2 17.08 198 iPc 23 23.90 0.0
0.2s 20.00nm 4.9mb
eS 26 20.20
ASPA 20.73 196 iPc 24 07.00 0.6
0.7s 14.30nm 4.5mb
eS 27 51.00
GUN 60.63 305 P 29 37.20 0.5
KKN 61.07 304 P 29 39.90 0.3
GKN 61.68 304 P 29 43.80 0.1
KIC 144.61 276 PKP 39 01.10 -0.8
TIC 144.87 276 PKP 39 02.10 -0.3
S.D. = 0.7 on 10 of 10 obs.

MAR 03, 1991 23h 33m 21.41± 0.51s
70.650 N ± 7.7km 14.952 W ± 8.7km
DEPTH = 10.0km (geophysicist)
4.3mb (15 abs.) 3.6Msz (1 obs.)
JAN MAYEN ISLAND REGION (639)

AKU 5.12 195 iPc 34 39.30 -0.6
0.7s 93.15nm 5.5mb X
iS 35 41.40
DAG 6.24 352 iP 34 53 40 -2.3
0.5s 14.08nm 5.1mb
NAO 14.32 120 P 36 42.20 -3.7X
1.1s 7.00nm 4.3mb
HFS 15.71 118 eP 37 06.50 2.5X
0.9s 6.80nm 3.9mb
KAF 18.21 97 eP 37 32.00 -3.4X
NUR 18.85 102 eP 37 45.00 1.8
FRB 21.18 278 eP 38 10.00 1.4
WTS 21.19 141 eP 38 08.50 -0.3
ENN 22.17 143 iPd 38 18.50 -0.1
0.8s 21.00nm 4.6mb
CLL 23.25 132 iPc 38 30.00 0.7
BRG 23.89 131 e(P) 38 36.10 0.6
KSP 24.52 128 ePc 38 41.40 -0.3
CDF 24.68 143 eP 38 43.80 0.5
0.8s 5.35nm 4.3mb
PRU 24.86 131 P 38 44.50 -0.4
BSF 25.14 144 eP 38 47.80 0.1
0.8s 5.35nm 4.3mb
LOR 25.14 149 eP 38 47.40 -0.3
0.7s 4.40nm 4.3mb
Z 20s 0.17um 3.6Msz
SSF 25.28 150 eP 38 48.60 -0.3
0.7s 4.40nm 4.3mb
LBF 25.44 149 eP 38 50.40 -0.1
0.9s 8.20nm 4.4mb
AVF 25.52 150 eP 38 50.70 -0.5
0.8s 5.35nm 4.3mb
BGF 25.66 151 eP 38 52.00 -0.5
0.7s 7.15nm 4.5mb
SMF 25.74 149 eP 38 51.90 -1.4
TCF 25.82 152 eP 38 53.70 -0.4
0.7s 3.30nm 4.1mb
MAF 25.94 151 eP 38 54.80 -0.4
KRA 26.23 123 eP 38 58.30 0.6
LPL 27.35 146 eP 39 11.20 2.9X
0.9s 3.30nm 4.1mb
LPG 27.37 146 eP 39 11.40 2.8X
SBF 29.08 145 eP 39 24.20 0.5
0.7s 5.50nm 4.5mb
YKA 35.99 309 eP 40 25.20 1.5
0.9s 1.10nm 3.7mb
S.D. = 0.9 on 23 of 28 obs.

% MAR 03, 1991 23h 39m 17.29± 0.59s
39.849 N ± 5.2km 28.917 E ± 4.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

DST 0.33 223 iPg 39 23.20 -1.0
iSg 39 28.20
KCT 0.59 313 ePg 39 29.60 0.4
IZI 0.65 41 iPg 39 29.70 -0.6
iSg 39 38.20
YLV 0.80 26 iPg 39 32.20 -0.6
BNT 0.92 304 iPg 39 35.10 0.3
iSg 39 47.10
EDC 0.95 302 ePg 39 36.00 0.6
eSg 39 49.00
HRT 1.13 30 iPn 39 38.20 -0.2
GPA 1.16 67 ePn 39 39.70 0.8
ALT 1.22 130 iPn 39 40.60 0.6
ISK 1.22 5 ePn 39 39.70 -0.3
S.D. = 0.7 on 10 of 10 obs.

MAR 03, 1991 23h 49m 58.60± 0.28s
34.619 N ± 6.8km 70.121 E ± 5.6km
DEPTH = 26.9km (2 depth phases)
4.6mb (28 obs.)
AFGHANISTAN (709)
Felt at Kabul.

QUE 5.17 212 eP 51 17.10 0.7
e(S) 52 13.00
NDI 8.46 132 iPnc 52 04.00 1.7
0.5s 28.17nm 5.7mb X
eS 53 34.00
GKN 14.05 114 P 53 17.00 -1.1
DMN 14.61 115 P 53 24.20 -1.4
KKN 14.64 114 P 53 24.60 -1.4
PKI 14.85 114 P 53 27.40 -1.5
GUN 15.04 112 P 53 29.20 -2.1
POO 16.36 167 eP 53 51.50 3.4X
WMQ 16.40 51 P 53 51.50 3.0
1.0s 100.00nm 4.9mb
HYB 18.72 154 eP 54 19.00 1.6
e$ 57 32.00
GBA 21.95 161 P 54 53.10 1.2
S 59 43.10
GTA 24.13 70 Pc 55 18.40 5.1X
1.0s 20.00nm 4.6mb
KOD 25.19 163 eP 55 25.60 1.8
CD2 28.45 88 eP 55 56.60 3.2X
CHTO 30.04 114 eP 56 05.20 -2.5
0.7s 1.43nm 3.9mb
GYA 32.37 94 P 56 30.40 2.2
TIY 34.09 72 eP 56 46.60 3.6X
KAF 38.84 329 eP 57 23.00 0.3
NUR 38.96 326 eP 57 24.00 0.3
SOD 41.15 336 iP 57 42.20 0.5
UPP 42.13 323 iP 57 49.50 -0.3
KEV 42.29 339 eP 57 52.00 0.9
PRU 42.87 309 P 57 57.50 1.4
KBA 43.81 304 eP 58 05.00 1.0
HFS 44.12 323 eP 58 05.70 -0.4
0.5s 1.40nm 4.1mb
NAO 45.62 324 P 58 17.00 -1.1
0.8s 3.80nm 4.4mb
PGF 47.52 299 eP 58 32.50 -1.0
0.7s 8.80nm 4.9mb
CDF 47.74 307 eP 58 36.40 1.3
BSF 48.14 306 eP 58 38.00 -0.3
0.9s 9.85nm 4.8mb
SBF 48.38 301 eP 58 39.30 -0.8
0.7s 11.00nm 5.0mb
HAU 48.41 306 eP 58 40.20 0.0
0.8s 4.05nm 4.5mb
LPG 48.55 303 eP 58 41.50 -0.1
0.7s 6.05nm 4.7mb
LPL 48.56 303 eP 58 41.50 -0.1
0.7s 8.25nm 4.9mb
FRF 49.00 300 eP 58 43.80 -1.0
0.7s 3.30nm 4.5mb
LRG 49.22 300 eP 58 45.80 -0.7
0.7s 2.20nm 4.3mb
LBF 50.17 305 eP 58 53.40 -0.4
SMF 50.32 305 eP 58 54.60 -0.3
0.9s 17.20nm 5.1mb
AVF 50.62 305 eP 58 57.00 -0.2
0.9s 11.45nm 4.8mb
MAF 51.27 305 eP 59 02.30 0.2
TCF 51.50 305 eP 59 04.20 0.3
0.9s 11.45nm 4.8mb
CAF 51.91 303 eP 59 07.10 0.1
0.8s 5.35nm 4.5mb
LSF 51.97 305 eP 59 07.20 -0.2
0.6s 4.50nm 4.6mb
RJF 52.19 304 eP 59 09.40 0.3
0.8s 8.05nm 4.7mb
LFF 52.82 303 eP 59 13.90 0.2
0.5s 5.10nm 4.7mb
EPF 53.59 301 eP 59 18.20 -1.3
0.7s 2.20nm 4.3mb
BCAO 56.33 250 iPd 59 38.00 -1.8
0.7s 8.00nm 4.9mb
DAG 56.36 344 eP 59 38.50 -0.7
0.6s 3.33nm 4.5mb
MBC 69.24 2 eP 01 05.00 0.4
0.5s 2.00nm 4.5mb
KIC 73.96 267 P 01 39.00 5.3X
TIC 74.03 267 P 01 39.30 5.1X
LIC 74.27 267 P 01 40.70 5.2X
INK 75.87 9 ePc 01 44.00 0.2
WRA B1.62 121 eP 02 16.50 0.7
0.6s 2.00nm 4.3mb
epP 02 25.00 27km
WB2 81.63 121 eP 02 16.50 0.7
0.6s 2.00nm 4.3mb
epP 02 25.00 27km
YKA 83.15 2 eP 02 22.80 -0.2
0.7s 2.20nm 4.4mb
ASPA 83.78 124 eP 02 21.90 -5.0X
0.5s 2.00nm 4.6mb
S.D. = 1.1 on 48 of 56 obs.

MAR 03, 1991 23h 52m 59.03± 0.62s
40.652 N ± 5.7km 15.753 E ± 5.1km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO 0.35 255 P 53 06.30 0.0
eSg 53 13.80
MGR 0.54 196 P 53 09.10 -0.8
eSg 53 18.70
ORI 0.79 138 P 53 14.10 -0.3
eSg 53 25.70
BAI 0.97 61 P 53 17.00 -0.4
eSg 53 30.00
TDS 1.09 155 P 53 19.80 0.3
eSg 53 35.90
BRT 1.13 78 P 53 19.10 -1.0
eSg 53 34.30
DUI 1.40 316 P 53 24.90 0.2
LCI 1.71 100 P 53 30.60 1.6
ATN 2.50 185 P 53 40.60 0.2
SOI 2.59 175 P 53 41.70 0.1
OHR 3.85 82 e(Pn) 54 09.50 9.8X
S.D. = 0.8 on 10 of 11 obs.

MAR 04, 1991 00h 42m 22.07± 0.97s
51.284 N ± 7.4km 179.146 W ± 3.5km
DEPTH = 44.5 ± 7.8 km
4.8mb (43 obs.) 4.3Msz (1 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS. (7)

ADK 1.65 68 iPc 42 49.60 0.6
SMY 4.42 292 e(P) 43 28.50 0.2
SVW 16.28 44 eP 46 10.00 1.1
PDB 16.40 49 eP 46 10.50 0.1
PMR 19.35 46 eP 46 47.50 1.1
0.6s 9.85nm 4.3mb
TOA 20.85 46 eP 47 00.50 -1.6
FBA 21.15 38 eP 47 04.40 -0.7
0.7s 20.35nm 4.6mb
BALM 22.40 50 eP 47 17.00 -0.7
INK 27.66 35 eP 48 06.00 -1.2
MBC 33.78 22 eP 49 01.00 -0.1
0.5s 2.00nm 4.3mb
YKA 35.46 46 eP 49 14.30 -1.3
0.7s 6.00nm 4.6mb
LON 37.05 74 eP 49 30.00 0.7
PNT 37.17 69 iPd 49 31.20 1.0
0.7s 17.00nm 5.1mb
CN2 37.35 281 eP 49 30.80 -0.9
EDM 39.05 61 eP 49 45.00 -0.9
NEW 39.12 69 eP 49 46.50 -0.1
0.8s 31.25nm 5.2mb
SNY 39.58 279 Pc 49 50.80 0.5
SES 41.60 63 eP 50 07.00 0.1
KVN 43.53 82 eP 50 24.20 1.2
TNP 44.67 82 eP 50 33.00 0.7
0.7s 4.44nm 4.4mb
DUG 46.10 77 eP 50 43.80 0.3

```
BW06    46.54   72 eP     50 46.60   -0.5
        0.7s     19.01nm           5.1mb
DAU     46.92   76 eP     50 50.90    0.7
MSU     47.52   78 eP     50 55.20    0.3
RSSD    49.00   67 eP     51 05.60   -0.6
        0.8s     9.01nm           4.9mb
GOL     50.91   73 eP     51 21.00    0.0
        0.7s     12.14nm           5.0mb
FRB     53.22   31 ePd    51 36.50   -1.1
ANMO    53.33   78 eP     51 38.00   -1.0
        0.6s     3.00nm           4.5mb
ALO     53.33   78 eP     51 37.90   -1.1
        1.0s     2.50nm           4.2mb
XAN     53.46  281 eP     51 39.60   -0.2
LZH     55.20  286 eP     51 49.50   -3.2X
        1.0s     25.00nm           5.2mb
      Z 20s      0.24um            4.3Msz
GTA     55.40  292 iPc    51 53.60   -0.5
        0.6s     10.00nm           5.0mb
CD2     58.78  282 eP     52 16.30   -1.7
TUL     59.11   70 ePc    52 18.50   -1.6
        0.8s     8.50nm           4.9mb
SOD     60.09  349 iP     52 26.30   -0.1
KAF     65.16  347 eP     52 58.00   -2.1
NUR     66.93  347 eP     53 10.00   -1.4
        0.5s     11.20nm           5.2mb
NAO     67.96  355 P      53 16.40   -1.5
        0.7s     2 80nm            4.4mb
UPP     68.39  351 iP     53 19.80   -0.7
HFS     68.45  353 eP     53 19.80   -1.2
        0.8s     7.10nm           4.7mb
GUN     71.69  292 P      53 42.00    0.4
KKN     72.13  292 P      53 44.40    0.4
PKI     72.22  292 P      53 45.00    0.3
GKN     72.34  293 P      53 45.30    0.1
DMN     72.37  292 P      53 46.00    0.5
WTS     76.97  356 eP     54 12.00    0.9
        0.8s     7.00nm           4.7mb
ENN     78.24  357 eP     54 18.00   -0.1
        0.8s     9.00nm           4.8mb
KHC     79.38  352 eP     54 24.30   -0.1
ZST     79.93  349 eP     54 27.00   -0.3
QUE     80.27  307 eP     54 30.30    0.5
FLN     80.33    1 eP     54 29.00   -0.5
        0.7s     7.70nm           4.8mb
LDF     80.50    1 eP     54 30.00   -0.4
        0.7s     7.70nm           4.8mb
GRR     80.70    1 eP     54 31.40    0.0
        0.7s     11.00nm           4.9mb
HAU     80.98  356 eP     54 33.00    0.0
        0.9s     4.90nm           4.5mb
BSF     81.13  356 eP     54 33.70   -0.2
        0.9s     4.90nm           4.5mb
MLR     81.20  342 eP     54 36.00    1.7
KBA     81.43  351 iPc    54 36.00    0.4
        0.7s     14.90nm           5.1mb
                   i      54 43.10
                   e      55 08.00
SQTA    81.47  353 iPc    54 35.50   -0.2
WB2     81.79  224 iPd    54 36.90   -0.5
        0.8s     3.00nm           4.4mb
WRA     81.79  224 P      54 36.00   -1.5
        0.5s     2.40nm           4.5mb
LOR     81.80  358 eP     54 37.20    0.0
SSF     82.01  358 eP     54 38.50    0.2
        0.7s     3.30nm           4.5mb
LBF     82.08  358 eP     54 39.50    0.8
        0.9s     5.75nm           4.6mb
AVF     82.28  358 eP     54 39.80    0.1
        0.9s     8.20nm           4.8mb
SMF     82.42  358 eP     54 40.50    0.0
        0.9s     11.45nm           4.9mb
MFF     82.49    1 eP     54 41.20    0.4
BGF     82.53  359 iPc    54 41.00    0.0
        0.8s     9.40nm           4.9mb
TCF     82.80  359 eP     54 42.70    0.2
LSF     82.85  360 eP     54 42.90    0.2
        0.7s     7.70nm           4.9mb
MAF     82.87  359 iPc    54 43.10    0.3
        0.6s     3.60nm           4.6mb
LPG     83.47  356 eP     54 47.20    0.9
        0.7s     2.20nm           4.3mb
BOB     84.04  354 P      54 49.60    0.7
HYB     84.04  290 ePd    54 49.50    0.3
LFF     84.16    0 eP     54 49.90    0.5
        0.6s     9.00nm           5.0mb
CAF     84.17  359 eP     54 50.10    0.6
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LPO     84.41  360 eP     54 51.20    0.5
        0.7s     12.15nm           5.1mb
MME     84.52  353 P      54 52.50    1.0
SFI     84.70  352 P      54 53.10    1.0
PGD     84.75  352 P      54 53.90    1.3
S8F     85.06  355 iPc    54 54.20    0.2
        0.8s     7.40nm           4.9mb
FRF     85.40  356 eP     54 55.90    0.3
        0.6s     4.50nm           4.8mb
LRG     85.52  356 eP     54 56.80    0.6
        0.6s     4.50nm           4.8mb
LMR     85.64  356 eP     54 57.30    0.5
        0.6s     4.50nm           4.8mb
POO     85.89  295 eP     54 57.50   -1.0
PGF     86.28  354 iPc    55 00.20    0.0
        0.8s     9.40nm           5.1mb
G8A     87.70  289 P      55 07.00   -0.2
STK     89.73  213 eP     55 27.20   10.8X
        0.8s     3.60nm
TIC    122.08    7 PKP    01 13.50    0.1
KIC    122.39    7 PKP    01 13.80   -0.1
BFT    146.12  308 iPKPc  01 59.50    1.6
        0.9s     42.02nm
SLR    147.02  310 iPKPd  02 00.50    1.2
PRY    148.41  310 iPKPd  02 13.90   12.4X
        1.0s     15.00nm
      S.D. = 0.8  on  89 of  92 obs.
-------------------------------------
%  MAR  04, 1991  01h 02m 52.11± 0.94s
   40.645 N ± 6.0km    29.114 E ± 8.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)

YLV      0.21  111 iPg    02 56.80    0.0
                 iSg    03 00.60
IZI      0.41  138 ePg    03 00.30   -0.3
                 eSg    03 05.60
ISK      0.42  354 ePg    03 00.60   -0.1
HRT      0.46   67 iPg    03 01.60    0.2
                 iSg    03 08.60
DST      1.10  200 ePn    03 13.00    0.1
      S.D. = 0.3  on   5 of   5 obs.
-------------------------------------
*  MAR  04, 1991  02h 06m 43.41± 2.18s
   20.561 S ±20.8km    69.562 W ±12.4km
   DEPTH =  33.0km  (normal)
   3.9mb (  1 obs.)
 NORTHERN CHILE                    (123)

CNCB     4.02   22 iP     07 45.70    0.9
                 S      08 21.00
LPB      4.24   19 iP     07 46.80   -0.9
        1.0s     160.00nm
                 iS     08 26.10
ARE      4.47  336 eP     07 51.00    0.1
                 i      07 54.70
                 iS     08 31.50
ZOBO     4.48   18 P      07 51.00   -0.4
CCH      4.52   46 P      07 52.50    0.8
SIV      9.26   62 P      08 57.20   -0.5
YKA     90.10  341 eP     19 41.00    0.1
        0.8s      0.60nm           3.9mb
      S.D. = 0.8  on   7 of   7 obs.
-------------------------------------
*  MAR  04, 1991  04h 27m 01.08± 0.98s
   23.539 N ± 8.1km   121.591 E ±10.1km
   DEPTH =  25.1 ±  6.7 km
   4.3mb (  3 obs.)
 TAIWAN                            (244)
      ML 3.6 (BJI).

TWF1     0.33  236 iPc    27 08.40   -0.1
                 eS     27 13.60
TWD      0.54    0 ePc    27 11.20   -0.7
TWK      1.05  255 ePc    27 21.30    1.1
TWC      1.09   12 ePc    27 21.50    0.8
ANP      1.64  358 eP     27 32.50    3.8X
QZH      3.07  298 iPnd   27 49.00   -0.1
                 Sn     28 27.00
SSE      7.54  357 eP     28 55.00    2.9X
NJ2      8.82  345 Pc     29 11.00    1.1
                 eS     30 47.60
XAN     15.24  316 eP     30 34.80   -1.6
WB2     44.97  163 iPc    35 15.70   -0.5
        0.5s     2.70nm           4.4mb
INK     73.68   22 eP     38 34.00   -0.1
MBC     73.80   13 eP     38 30.00   -4.7X
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        0.6s     3.00nm           4.5mb
YKA     83.42   23 eP     39 27.60    0.3
        0.7s     0.40nm           3.7mb
      S.D. = 1.0  on  10 of  13 obs.
-------------------------------------
?  MAR  04, 1991  04h 48m 11.98± 0.93s
   6.264 S ±20.6km   150.669 E ±25.1km
   DEPTH =  33.0km  (normal)
   4.4mb (  3 obs.)
 NEW BRITAIN REGION                (192)

RAB      2.54   36 eP     48 52.00    0.1
                 iS     49 33.00
PMG      4.68  228 eP     49 23.00    0.9
RMO     20.20  185 iPc    52 46.90    0.0
        0.4s     15.00nm           4.7mb
WB2     20.88  228 iPc    52 52.90   -1.1
        0.6s     12.00nm           4.5mb
ASPA    23.65  221 eP     53 21.50    0.1
        0.6s     2.90nm            4.0mb
      S.D. = 1.0  on   5 of   5 obs.
-------------------------------------
   MAR  04, 1991  05h 08m 10.70± 0.40s
   44.647 N ± 3.6km   12.398 E ± 4.8km
   DEPTH =  10.6 ±  3.3 km
 NORTHERN ITALY                    (545)
      ML 3.2 (VIE), 3.1 (LDG), 3.0
      (KBA), 3.0 LJU. MD 2.8 (TRI).

RSM      0.72  177 P      08 25.70    0.9
                 eSg    08 35.80
SFI      0.82  209 Pd     08 28.50    1.9
                 eSg    08 42.70
PGD      0.91  212 P      08 29.90    1.7
                 eSn    08 44.70
CRE      1.07  198 P      08 32.10    1.3
                 eSn    08 48.00
ARV      1.21  161 P      08 32.00   -1.2
                 eSg    08 47.90
MME      1.30  250 Pd     08 37.20    2.3
VVI      1.34    1 P      08 34.90   -0.4
                 eSn    08 53.40
AOI      1.40  141 ePg    08 35.26   -0.9
                 i(Sg)  08 53.18
BDI      1.42  246 P      08 38.20    1.7
TRI      1.44   42 ePgc   08 36.80    0.1
                 iSg    08 56.00
CTI      1.50  340 P      08 37.90    0.3
                 eSn    08 59.30
CIO      1.55  159 ePg    08 35.84   -2.5
                 iSg    08 52.75
RIY      1.57   63 iPn    08 38.30   -0.3
                 iSn    08 58.40
ASS      1.59  173 P      08 38.50   -0.4
                 eSg    08 58.40
SAL      1.64  307 P      08 40.60    1.1
VOY      1.74   37 ePn    08 43.00    1.8
                 eSn    09 06.50
FVI      1.97    8 P      08 43.50   -0.8
ALP      2.05  155 e(Pn)  08 46.88    1.2
                 eSn    09 14.47
LJU      2.05   46 e(Pn)  08 48.00    2.4
                 eSn    09 15.50
BOB      2.11  274 P      08 49.80    3.3X
MDI      2.21  302 P      08 48.50    0.7
MNS      2.27  175 P      08 47.50   -1.3
OGA      2.42  337 ePn    08 58.80    7.7X
SCE      2.44  349 ePn    08 52.70    1.4
KBA      2.52   15 iPnc   08 51.70   -0.7
                 iPg    08 59.90
                 i      09 02.00
                 iSg    09 32.50
SQTA     2.70  343 iPnc   08 56.10    1.0
                 iPg    09 03.40
                 iSg    09 39.10
PGF      3.24  231 Pn     09 02.00   -0.6
                 Sn     09 39.60
LPG      4.09  284 Pn     09 13.60   -1.2
FRF      4.28  257 Pn     09 16.80   -0.5
LMR      4.45  255 Pn     09 18.70   -0.9
KHC      4.56   10 eP     10 07.60   46.4X
BSF      5.03  311 Pn     09 27.50   -0.4
                 Sn     10 23.00
CDF      5.16  319 Pn     09 29.40   -0.5
HAU      5.37  311 Pn     09 32.00   -0.7
                 Sn     10 29.60
SMF      6.32  291 Pn     09 45.20   -1.0
```

04d 05h

		Sn	10 53.50		
LBF	6.33 295	Pn	09 45.00	-1.3	
		Sn	10 52.40		
LOR	6.50 297	Pn	09 47.80	-0.9	
		Sn	10 57.60		
BGF	6.97 289	Pn	09 54.20	-1.0	
S.D. = 1.3 on 35 of 38 obs.					

* MAR 04, 1991 05h 43m 26.61± 1.93s
22.999 N ±12.3km 121.340 E ±15.8km
DEPTH = 10.0km (geophysicist)
TAIWAN REGION (243)

TWG	0.30 234	iPd	43 32.70	-0.3	
		eS	43 38.00		
TWF1	0.35 354	iPd	43 33.90	0.0	
		eS	43 39.20		
TWK	0.83 289	iPd	43 42.40	-0.3	
TWM1	0.86 259	ePd	43 43.70	0.5	
TWC	1.67 16	eP	43 56.00	0.0	
ANP	2.18 4	eP	44 12.00	8.4X	
S.D. = 0.4 on 5 of 6 obs.					

? MAR 04, 1991 05h 54m 49.82± 0.69s
7.923 S ±12.3km 77.541 W ±26.9km
DEPTH = 10.0km (geophysicist)
4.5mb (5 obs.)
NORTHERN PERU (111)
Felt (IV) at Chimbote ond Trujillo.

NNA	4.10 170	iP	55 53.90	0.0	
	0.5s 27.46nm				
		eS	56 34.00		
PT10	4.16 172	eP	55 55.00	0.1	
		e(S)	56 40.00		
ARE	10.34 146	eP	57 38.00	16.4X	
ZOBO	12.39 133	P	58 02.00	12.3X	
LPB	12.58 134	eP	58 11.00	18.8X	
		(S)	01 33.00		
CNCB	12.85 134	eP	58 12.80	16.9X	
CCH	14.55 131	(P)	58 18.00	-0.2	
SIV	17.99 118	P	59 09.00	7.2X	
TUL	46.86 340	ePd	03 23.10	1.1	
	0.8s 11.90nm		5.0mb		
ANMO	50.64 329	eP	03 51.00	-0.5	
	0.9s 1.89nm		4.0mb		
TNP	58.83 324	eP	04 48.30	-3.0X	
	0.9s 2.15nm		4.3mb		
YKA	75.77 343	eP	06 35.40	-2.0	
	0.8s 1.80nm		4.2mb		
INK	85.47 342	eP	07 28.50	-0.2	
MBC	87.49 351	eP	07 40.00	1.6	
	0.9s 14.00nm		5.2mb		
S.D. = 1.2 on 8 of 14 obs.					

* MAR 04, 1991 06h 04m 50.09± 0.84s
35.253 N ± 9.0km 3.506 W ± 8.4km
DEPTH = 33.0km (normal)
STRAIT OF GIBRALTAR (385)
mbLg 2.4 (MDD).

EMEL	0.45 84	iP	05 00.00	0.0	
		eS	05 06.00		
EJIF	1.99 307	ePn	05 22.30	0.2	
		eSn	05 44.80		
ENIJ	2.01 31	ePn	05 22.50	0.2	
		eSn	05 45.00		
ECOG	2.02 359	ePn	05 22.30	-0.3	
		eSn	05 44.80		
IFR	2.19 218	iPn	05 25.00	-0.1	
		iSn	05 51.00		
S.D. = 0.3 on 5 of 5 obs.					

% MAR 04, 1991 06h 21m 50.22± 1.02s
38.216 N ± 8.4km 30.276 E ±13.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

KHL	0.60 281	iPg	22 01.90	-0.5	
		iSg	22 10.90		
BCK	0.79 162	iPg	22 05.70	0.0	
ALT	0.85 351	iPg	22 06.00	-0.6	
		eSg	22 18.00		
ELL	1.49 191	ePn	22 21.20	4.0X	
DST	1.89 318	ePn	22 24.00	1.1	
YER	1.91 236	ePn	22 28.00	4.8X	
YLV	2.45 344	ePn	22 31.00	0.1	
S.D. = 1.0 on 5 of 7 obs.					

& MAR 04, 1991 06h 28m 10.46s
62.324 N 152.050 W
DEPTH = 8.8km
CENTRAL ALASKA (1)
<AEIC>. ML 3.1 (GS). Felt (IV) at Skwentno.

SKT	0.42 144	iP	28 18.89	-0.2	
		eS	28 25.78		
CUT	0.83 84	iP	28 25.49	-1.2	
NCG	0.93 183	iP	28 27.02	-1.3	
		iS	28 40.23		
CRP	1.06 183	eP	28 29.50	-1.2	
		eS	28 44.54		
SUA	1.06 144	eP	28 30.07	-0.6	
		eS	28 45.65		
BGL	1.08 189	eP	28 29.52	-1.4	
		eS	28 44.22		
CKL	1.14 187	eP	28 30.96	-1.0	
		eS	28 46.61		
PWA	1.23 122	eP	28 32.48	-0.9	
		eS	28 49.56		
HUR	1.29 58	iP	28 32.82	-1.7	
		eS	28 50.25		
TRF	1.39 35	eP	28 33.84	-2.3	
		eS	28 52.57		
PLRM	1.56 117	eP	28 37.42	-1.0	
		eS	28 58.25		
PMR	1.56 117	eP	28 37.50	-0.9	
GHO	1.57 109	eP	28 37.57	-1.1	
		eS	28 58.65		
PMS	1.60 131	eP	28 37.84	-1.3	
		eS	29 00.18		
NKA	1.63 166	eP	28 41.26	1.8	
RDT	1.76 186	eP	28 41.23	-0.2	
NCT	1.82 194	eP	28 42.22	-0.1	
RND	1.82 52	eP	28 40.36	-2.0	
		S	29 04.39		
RDN	1.85 191	eP	28 42.88	0.1	
REF	1.87 190	eP	28 43.45	0.4	
RS2	1.90 191	eP	28 43.60	0.1	
RSO	1.90 191	eP	28 43.61	0.1	
TTA	1.93 290	eP	28 40.50	-3.4	
KNK	1.93 117	eP	28 44.09	0.2	
RED	1.94 191	eP	28 44.40	0.3	
		eS	29 11.02		
MCK	2.00 44	eP	28 45.05	0.2	
		eS	29 10.97		
SLKM	2.02 153	eP	28 45.89	0.7	
SVW	2.09 236	eP	28 44.40	-1.8	
BWN	2.19 31	eP	28 47.69	0.1	
NEA	2.63 29	eP	28 49.77	-4.0	
PDB	2.75 203	eP	28 53.39	-2.2	
TOA	2.76 92	eP	28 56.50	0.7	
GLI	2.78 119	eP	28 54.31	-1.6	
KNIM	2.87 132	eP	28 55.45	-1.8	
VZW	2.91 113	eP	28 55.66	-2.2	
VLZ	2.97 111	eP	28 58.74	0.1	
CCB	3.01 37	eP	28 59.03	-0.1	
KLU	3.02 103	eP	28 58.05	-1.3	
SDG	3.03 83	eP	28 59.69	0.1	
RDS	3.06 33	eP	28 56.93	-3.0	
TZL	3.12 92	eP	28 58.63	-2.1	
MDM	3.15 31	eP	28 57.57	-3.6	
DDM	3.18 60	eP	29 00.74	-0.9	
FBA	3.21 34	eP	28 58.70	-3.3	
GLM	3.39 36	eP	29 01.22	-3.4	
IMA	3.83 350	eP	29 06.83	-4.1	
GLB	4.00 99	eP	29 12.02	-1.3	
47 obs. associated					

MAR 04, 1991 08h 03m 37.75± 0.61s
45.792 N ± 7.3km 16.812 E ± 5.8km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 3.2 (KBA). MD 3.5 (TRI). Felt ot Veliko Trojstvo ond Bjelovor.

BLY	1.08 166	Pn	03 58.00	0.0	
		Sn	04 15.50		
VBY	1.13 256	ePg	04 00.00	1.1	
		i	04 13.30		
		iSg	04 15.80		
		iSb	04 17.40		
		iSn	04 18.30		
UZD	1.47 56	iPnd	04 03.30	-0.9	
LJU	1.61 280	ePn	04 08.90	2.6X	
		eSn	04 32.00		
CEY	1.67 269	ePn	04 10.90	3.7X	
		eSn	04 34.00		
RIY	1.76 256	ePn	04 12.70	4.2X	
		iSn	04 33.90		
VOY	2.05 278	iPnc	04 16.50	3.7X	
		eSg	04 46.20		
TRI	2.14 269	ePn	04 14.30	0.4	
		iPg	04 17.30		
		iSn	04 41.10		
		iSg	04 48.70		
SRO	2.27 26	iPn	04 17.60	1.8	
		i	04 42.80		
		i(Sn)	04 49.80		
BUD	2.28 41	e(Pn)	04 17.00	1.0	
ZST	2.41 5	eP	04 10.00	-7.9X	
		i	04 25.60		
		i	04 32.60		
		i(Sn)	04 55.40		
VKA	2.50 352	iP	04 46.70	27.6X	
		iSg	04 58.80		
HVAR	2.63 186	iPnd	04 21.70	0.8	
		iS	04 54.60		
KBA	2.72 299	ePn	04 21.50	-1.0	
		iPg	04 30.10		
		iSn	04 55.20		
		iSg	05 08.10		
BEO	2.75 109	eP	05 01.50	38.9X	
FVI	2.91 287	P	04 24.50	-0.4	
		eSn	05 07.50		
PSZ	3.00 44	ePn	04 35.40	9.1X	
BZS	3.37 91	ePc	04 30.00	-1.5	
CTI	3.61 276	P	04 33.70	-1.3	
		eSn	05 25.80		
ASS	4.03 229	P	04 37.50	-3.4X	
S.D. = 1.2 on 11 of 20 obs.					

MAR 04, 1991 08h 41m 51.22± 0.47s
38.298 N ± 4.3km 30.214 E ± 5.3km
DEPTH = 6.4 ± 2.8 km
4.0mb (2 obs.)
TURKEY (366)

KHL	0.54 273	iPg	42 01.90	-0.2	
		iSg	42 10.90		
ALT	0.76 354	iPn	42 07.00	0.5	
BCK	0.89 160	iPg	42 05.70	-2.9X	
ELL	1.57 189	iPn	42 19.20	-0.5	
DST	1.80 317	ePn	42 23.30	0.3	
YER	1.92 233	iPn	42 24.80	0.0	
GPA	1.99 2	iPn	42 27.20	1.5	
IZI	2.12 344	iPn	42 28.30	0.7	
IZM	2.32 273	iPn	42 30.40	-0.2	
YLV	2.36 344	iPn	42 31.00	-0.1	
KCT	2.42 324	ePn	42 35.00	3.0X	
BBTK	2.51 51	iPc	42 31.50	-1.8	
		iS	43 09.50		
HRT	2.56 351	ePn	42 33.80	-0.1	
GBZT	2.56 347	ePn	42 25.90	-7.9X	
BNT	2.72 320	iPn	42 36.80	0.6	
EDC	2.74 319	iPn	42 36.50	0.0	
ISK	2.90 343	ePn	42 39.00	0.2	
EZN	3.39 298	ePn	42 45.80	0.1	
PPCY	3.81 153	eP	42 54.50	2.8	
DMK	3.99 333	iPn	42 54.00	-0.2	
KAS	4.11 41	ePn	43 00.00	4.1X	
		iSg	44 08.00		
CSS	4.17 142	eP	42 55.00	-1.7	
KDZ	4.98 314	iP	43 08.00	-0.2	
JMB	5.00 327	eP	43 08.00	-0.5	
DIM	5.19 318	eP	43 12.00	0.9	
RZN	5.41 310	eP	43 14.00	-0.6	
PLD	5.68 314	eP	43 17.00	-1.1	
MMB	5.97 305	iPd	43 22.00	-0.2	
PVL	6.15 325	iPd	43 24.00	-0.7	
PGB	6.27 315	eP	43 25.00	-1.5	
VAY	6.61 300	ePn	43 43.00	11.7X	
VTS	6.85 311	iP	43 36.00	1.2	
VRI	8.00 342	ePd	43 50.00	-0.7	
NB2	25.68 339	P	47 24.50	1.2	
	0.8s 1.30nm		3.7mb		
GBA	48.41 107	Pd	50 35.90	-0.2	
	0.7s 2.40nm		4.4mb		
S.D. = 1.0 on 30 of 35 obs.					

MAR 04, 1991 08h 53m 05.48± 0.78s
38.285 N ± 6.0km 30.363 E ± 8.4km
DEPTH = 5.0km (geophysicist)
TURKEY (366)

KHL	0.66	274	ePg	53 16.40	-2.3
			iSg	53 24.90	
ALT	0.79	346	iPn	53 21.00	-0.4
BCK	0.84	168	iPg	53 20.70	-1.6
			iSg	53 32.20	
ELL	1.58	193	iPn	53 35.20	0.9
DST	1.89	315	ePn	53 38.30	-0.4
GPA	2.00	359	ePn	53 42.20	1.9
YER	2.01	236	ePn	53 42.30	1.8
IZI	2.16	342	iPn	53 42.80	0.1
YLV	2.40	342	ePn	53 45.80	-0.4
BBTK	2.43	49	eP	53 46.00	-0.6
IZM	2.44	274	ePn	53 48.00	1.3
KCT	2.50	322	ePn	53 51.00	3.5X
HRT	2.59	348	ePn	53 56.30	7.5X
BNT	2.80	318	ePn	53 51.80	0.0
EDC	2.83	318	ePn	53 52.00	-0.2
ISK	2.95	340	ePn	54 01.00	7.1X

S.D. = 1.3 on 13 of 16 obs.

• MAR 04, 1991 10h 04m 00.44± 1.01s
29.830 S ± 5.9km 71.680 W ±13.6km
DEPTH = 33.0km (normal)
4.9mb (1 obs.)
NEAR COAST OF CENTRAL CHILE (135)
Felt (IV) at La Serena, Coquimbo, Vicuna and Poihuano.

RTRS	1.96	101	ePd	04 32.40	0.5
RTCB	2.98	124	ePd	04 46.90	0.3
			(S)	05 22.20	
JACH	2.99	162	iPc	04 48.40	1.7
			i	05 22.00	
ZON	3.10	124	ePc	04 49.00	0.8
RTLL	3.15	119	ePc	04 49.60	0.7
			eS	05 32.20	
ROCH	3.18	170	eP	04 58.60	9.0X
PEL	3.41	166	eP	04 53.00	0.3
			iS	05 37.50	
CFA	3.45	122	ePc	04 52.80	-0.5
			eS	05 38.10	
LCCH	3.64	179	eP	04 55.00	-0.8
TACH	3.86	171	iPd	04 58.60	-0.4
PCH	3.91	166	eP	05 00.20	0.5
			i	05 51.50	
LNV	4.12	177	eP	05 01.20	-1.4
SLA	7.49	49	e(P)	05 56.50	6.2X
CNCB	13.40	15	P	07 10.00	-1.3
			(S)	10 19.00	
LPB	13.64	15	(P)	07 16.00	1.7
ZOBO	13.89	14	P	07 20.00	2.3
Z 20s 0.20um					
			LR	11 40.00	
SIV	16.87	38	P	07 54.00	-1.8
PPD	19.88	72	eP	08 29.30	-2.6
			e	08 31.30	
SPA	60.34	180	iPd	14 17.40	9.1X
1.0s 9.00nm 4.9mb					

S.D. = 1.4 on 16 of 19 obs.

• MAR 04, 1991 10h 21m 36.14± 1.14s
31.179 S ±14.2km 68.869 W ±19.3km
DEPTH = 33.0km (normal)
SAN JUAN PROVINCE, ARGENTINA (137)

RTCB	0.31	169	eP	21 44.90	0.7
RTLL	0.37	114	iPc	21 46.20	1.2
ZON	0.40	156	iPd	21 45.00	-0.3
			eS	21 55.00	
CFA	0.69	129	iPd	21 47.90	-1.5
			eS	22 00.90	
RTRS	1.13	333	iPc	21 55.50	-0.1
			eS	22 14.00	

S.D. = 1.5 on 5 of 5 obs.

MAR 04, 1991 11h 02m 05.79± 0.76s
38.244 N ± 5.1km 30.365 E ±10.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

KHL	0.67	277	iPg	02 18.50	-0.6
			iSg	02 28.00	
BCK	0.80	167	iPg	02 20.80	-0.6
ALT	0.83	346	iPg	02 21.20	-0.8
			eSg	02 33.20	
ELL	1.54	194	ePn	02 34.00	0.6
DST	1.92	316	ePn	02 38.40	-0.5
GPA	2.04	359	iPn	02 45.50	4.9X
IZI	2.20	342	iPn	02 43.70	0.7
YLV	2.44	342	ePn	02 47.00	0.6
IZM	2.45	275	ePn	02 47.00	0.6
KCT	2.54	323	ePn	02 52.00	4.3X
HRT	2.63	348	ePn	02 49.00	-0.1
BNT	2.84	319	iPn	02 48.70	-3.3X
EDC	2.86	318	ePn	02 59.00	6.7X
ISK	2.99	341	ePn	02 57.00	2.9X
EZN	3.52	298	ePn	03 06.00	4.4X
DMK	4.10	332	ePn	03 19.00	9.2X

S.D. = 0.7 on 9 of 16 obs.

• MAR 04, 1991 11h 44m 14.78± 0.80s
34.812 N ± 6.5km 5.622 W ±15.9km
DEPTH = 10.0km (geophysicist)
MOROCCO (395)
MD 4.1 (RBA).

IFR	1.36	162	iPgc	44 39.50	-0.4
			iSg	44 49.50	
			i	44 58.50	
AVE	2.12	225	iPn	44 58.50	7.8X
			iSn	45 20.50	
			i	45 24.50	
			i	45 29.00	
MAL	2.15	27	ePn	44 52.00	0.9
			iSg	45 06.50	
AFC	2.96	34	eP	45 03.50	0.7
ECOG	2.97	34	eP	45 02.70	-0.2
EHOR	3.02	6	eP	45 02.50	-0.9
ENIJ	3.50	51	eP	45 10.00	-0.4
TIO	4.11	200	iPnc	45 19.50	0.4
			iSn	45 59.50	
			i	46 08.00	
			i	46 21.00	
			i	46 29.00	
GUD	5.94	11	eP	45 45.00	0.1

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

• MAR 04, 1991 13h 14m 09.13± 0.69s
23.179 N ± 9.5km 144.238 E ±15.8km
DEPTH = 33.0km (normal)
4.5mb (6 obs.)
VOLCANO ISLANDS REGION (213)

MAT	14.30	340	eP	17 32.00	0.7
W82	43.93	193	eP	22 15.00	0.2
0.3s 7.20nm 4.9mb					
WRA	43.93	193	eP	22 15.00	0.2
0.3s 7.20nm 4.9mb					
ASPA	47.64	193	eP	22 44.30	0.1
1.0s 4.40nm 4.4mb					
GUN	52.45	288	P	23 22.60	1.1
PKI	52.91	288	P	23 25.20	0.2
KKN	52.99	288	P	23 22.80	-2.6
DMN	53.17	288	P	23 27.60	0.8
GKN	53.52	288	P	23 29.40	0.2
INK	65.83	24	eP	24 53.00	0.0
YKA	74.70	28	eP	25 47.20	0.2
0.6s 0.80nm 3.9mb					
HFS	87.74	338	eP	26 54.70	-1.0
0.4s 0.80nm 4.4mb					
NB2	87.92	339	P	26 56.40	-0.2
0.6s 1.10nm 4.3mb					
ZOBO	148.82	83	PKP	33 58.60	6.3X
LPB	148.92	84	ePKP	33 58.00	5.7X
CNCB	149.11	84	iPKP	34 00.00	7.2X

S.D. = 1.0 on 13 of 16 obs.

MAR 04, 1991 13h 39m 17.83± 0.62s
35.732 N ± 8.9km 137.465 E ± 7.9km
DEPTH = 249.2 ± 6.4 km
4.6mb (13 obs.)
HONSHU, JAPAN (227)

MTMJ	0.89	18	iP+	39 52.50	-0.1
MAT	1.01	36	iPd	39 52.70	-0.4
			iS	40 18.70	
CHJJ	1.28	75	iPd	39 54.50	-0.3
			S	40 22.10	
MDJ	10.72	328	eP	41 46.70	0.4
CN2	12.25	315	Pc	42 05.80	0.3
1.0s 30.00nm 4.5mb					
SNY	12.42	304	eP	42 08.60	1.0
1.2s 100.00nm 4.9mb					
DL2	13.00	289	P	42 16.80	2.0
SSE	14.36	256	P	42 34.20	2.7
1.0s 24.00nm 4.5mb					
NJ2	15.88	262	eP	42 47.60	-2.4
BJI	17.34	291	eP	43 03.50	-2.2
1.2s 12.00nm 4.2mb					
WHN	20.02	262	Pc	43 34.00	0.9
TIY	20.15	283	eP	43 33.00	-1.4
XAN	23.44	274	iPc	44 06.40	0.1
LZH	27.16	281	eP	44 37.50	-2.9
1.5s 25.00nm 4.6mb					
GYA	27.85	259	P	44 46.00	-0.6
CD2	28.49	270	eP	44 50.70	-1.4
GTA	29.92	288	Pd	45 03.80	-1.0
0.7s 10.00nm 4.6mb					
KMI	31.61	260	Pd	45 18.60	-1.1
CHG	37.88	254	eP	46 13.50	0.9
CHTO	37.88	254	eP	46 13.50	0.9
0.7s 3.81nm 4.0mb					
WMO	38.60	298	P	46 19.60	1.2
GUN	44.10	275	P	47 04.00	0.4
PKI	44.62	275	P	47 08.00	0.3
0.6s 16.00nm 4.5mb					
KKN	44.64	275	P	47 08.40	0.7
DMN	44.85	275	P	47 09.70	0.3
GKN	45.07	276	P	47 11.40	0.4
FBA	51.89	32	eP	48 04.20	1.6
0.9s 0.60nm 3.0mb X					
WB2	55.45	184	iPc	48 28.80	-0.1
0.4s 32.40nm 5.2mb					
WRA	55.45	184	P	48 28.00	-0.9
0.6s 20.40nm 4.8mb					
INK	56.98	26	eP	48 38.00	-1.2
GBA	57.92	264	P	48 46.90	0.5
ASPA	59.17	184	iPc	48 55.00	0.2
0.4s 15.30nm 5.0mb					
WARB	62.42	191	eP	49 17.70	1.2
SOD	64.91	336	iP	49 33.00	0.8
KAF	67.97	332	iP	49 51.20	-0.3
0.5s 8.00nm 4.7mb					
NUR	69.56	331	iP	50 01.00	-0.2
NB2	74.11	336	P	50 27.80	-0.3
0.9s 4.70nm 4.2mb					

S.D. = 1.2 on 37 of 37 obs.

MAR 04, 1991 16h 07m 50.95± 0.29s
43.243 N ± 2.8km 18.880 E ± 2.9km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 3.4 (KBA). MD 3.3 (TTG).

PLE	0.39	77	iPgc	07 58.50	-0.4
			iSg	08 03.70	
BRY	0.42	216	iPgc	07 58.80	-0.8
			eSg	08 04.50	
NKY	0.44	169	iPgd	07 59.60	-0.3
			iSg	08 06.50	
IVA	0.83	116	iPgc	08 07.10	0.0
			eSg	08 20.50	
HCY	0.84	200	ePg	08 06.50	-0.7
			iSg	08 21.50	
TTG	0.86	161	ePg	08 06.60	-0.9
			iSg	08 20.00	
BDV	0.96	182	ePg	08 08.70	-0.5
			iSg	08 25.00	
PVY	1.03	128	iPgc	08 10.60	0.1
			iSg	08 28.50	
ULC	1.31	168	ePg	08 16.20	1.0
			eSg	08 36.00	
HVAR	1.78	269	iPnc	08 22.70	0.8
			iSn	08 47.60	
BEO	1.94	35	ePn	08 27.00	2.7
			eSn	08 50.00	
SKO	2.28	123	iPnc	08 30.10	0.9
			e(Sn)	09 03.50	
			Lg	09 15.00	
OHR	2.56	146	iPn	08 38.00	4.7X
			i	09 12.00	
			Lg	09 22.00	
BRT	2.67	208	P	08 35.20	0.4
LCI	2.99	194	P	08 38.60	-0.6
BZS	3.08	39	ePc	08 39.00	-1.5

04d 16h

VAY	3.34	124	ePn	08 47.60	3.3X
UZD	3.36	356	e(P)	08 45.00	0.5
VBY	3.44	312	ePn	08 46.00	0.3
DUI	3.63	246	P	08 49.90	1.4
			eSn	09 33.50	
ORI	3.66	211	P	08 48.50	-0.3
SGO	3.78	226	P	08 50.10	-0.4
			eSn	09 34.40	
RIY	3.85	305	e(Pn)	08 51.30	-0.2
			iS	09 58.60	
AOI	3.86	276	ePn	08 52.20	0.5
			eSn	09 37.06	
ALP	3.92	265	e(Pn)	08 53.36	0.8
			eSn	09 39.58	
MGR	3.98	220	P	08 53.00	-0.3
			eSn	09 39.50	
CEY	4.05	310	ePn	08 53.90	-0.4
			e(Sn)	10 04.50	
LJU	4.18	314	ePn	08 55.50	-0.6
			e	09 06.00	
			e(Sn)	10 08.00	
CIO	4.19	271	ePn	08 56.15	-0.3
			iSn	09 44.11	
ARV	4.34	275	P	08 58.20	-0.2
TRI	4.41	306	P	08 58.60	-0.9
VOY	4.52	310	ePn	09 00.00	-1.1
			eSn	10 10.30	
ASS	4.55	270	P	09 01.70	0.2
			eSn	09 54.80	
MNS	4.64	261	P	09 03.70	0.9
			eSn	09 56.50	
CRE	5.06	277	P	09 09.80	1.1
SFI	5.15	280	P	09 10.80	0.9
			eSn	10 08.50	
PGD	5.24	279	P	09 12.10	0.7
			eSn	10 11.50	
FVI	5.47	310	P	09 13.80	-0.7
KBA	5.48	316	iPnd	09 13.50	-1.3
			iSn	10 14.60	
MLR	5.54	64	eP	09 33.00	17.4X
CTI	5.87	301	P	09 19.20	-1.0
MME	6.00	282	P	09 23.00	0.8
WTTA	6.50	311	iPnd	09 28.20	-1.0
			iSn	10 34.60	

S.D. = 0.9 on 40 of 43 obs.

• MAR 04, 1991 16h 21m 49.06± 0.86s
32.632 S ±13.9km 69.542 W ±14.3km
DEPTH = 28.1 ± 7.3 km
MENDOZA PROVINCE, ARGENTINA (139)

JACH	0.89	267	iPd	22 07.50	1.8
			i	22 23.20	
PEL	1.09	242	iPd	22 09.40	0.9
			iS	22 26.30	
SAN	1.25	229	iPd	22 11.70	1.0
			iS	22 30.60	
PCH	1.28	219	iPd	22 12.40	1.2
			iS	22 32.20	
ROCH	1.28	254	iPd	22 11.20	-0.2
			iS	22 29.50	
RTCB	1.31	29	ePd	22 12.40	0.8
ZON	1.31	34	eP	22 12.00	0.4
			eS	22 30.00	
CFA	1.51	48	iPc	22 14.60	0.1
			eS	22 35.00	
TACH	1.55	229	iPd	22 14.70	-0.4
			iS	22 36.00	
RTLL	1.59	35	iPc	22 15.10	-0.5
			eS	22 37.00	
LCCH	1.90	243	eP	22 18.30	-1.8
			eS	22 41.50	
LNV	2.05	229	eP	22 20.00	-2.2
			iS	22 45.10	
RTRS	2.46	2	iPc	22 26.90	-1.2
			eS	22 56.10	

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

? MAR 04, 1991 16h 41m 25.44± 1.09s
30.810 N ±14.7km 79.215 E ± 8.5km
DEPTH = 33.0km (normal)
3.2mb (1 obs.)
TIBET-INDIA BORDER REGION (305)

NDI	2.74	220	eP	42 08.00	0.0
			eS	42 48.50	
GKN	5.50	119	P	42 47.50	0.2
KKN	6.09	118	P	42 55.80	0.0
PKI	6.30	119	P	42 59.10	0.3
GUN	6.49	115	P	43 01.00	-0.5
YKA	86.36	6	eP	54 05.20	0.0
	0.6s		0.10nm		3.2mb

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

MAR 04, 1991 17h 04m 26.81± 0.54s
43.324 N ± 4.9km 13.221 E ± 4.6km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)
MD 2.8 (SSO).

CIO	0.14	204	iPg	04 30.10	-0.1
			iSg	04 33.36	
SSO	0.15	102	ePg	04 30.56	0.3
			i(Sg)	04 33.57	
ARV	0.27	311	P	04 32.20	-0.3
			eSg	04 37.40	
AOI	0.36	51	iPg	04 34.16	0.0
			iSg	04 40.07	
ASS	0.48	238	P	04 36.50	-0.1
			eSg	04 45.20	
ALP	0.60	154	e(Pg)	04 38.58	-0.5
			eSg	04 49.15	
MNS	1.02	203	P	04 46.60	0.5
			eSg	05 01.00	
PGD	1.22	297	P	04 49.90	0.2

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

MAR 04, 1991 17h 15m 20.36± 0.63s
40.608 N ± 5.8km 15.385 E ± 6.6km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.08	230	Pd	15 22.50	-0.3
			eSg	15 26.00	
MGR	0.49	165	P	15 29.10	-1.2
			eSg	15 39.00	
ORI	0.98	123	P	15 39.50	0.5
TDS	1.20	142	P	15 43.50	0.8
			eSn	16 01.00	
BAI	1.23	65	P	15 42.00	-1.3
			eSg	15 58.00	
DUI	1.26	327	P	15 43.80	-0.1
			eSn	16 02.20	
BRT	1.41	78	P	15 44.20	-1.8
			eSn	16 02.70	
LCI	1.98	97	P	15 55.10	0.9
			eSn	16 20.80	
SOI	2.59	168	P	16 02.70	-0.2
HVAR	2.69	17	e(Pn)	16 07.10	2.7
MNS	2.70	312	P	16 03.20	-1.4
GIB	2.82	202	P	16 06.70	0.3
FAI	3.58	202	P	16 18.10	1.0

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

• MAR 04, 1991 21h 25m 26.70± 0.81s
42.848 N ± 6.0km 12.943 E ± 7.3km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)
MD 2.2 (SSO).

ASS	*0.30	317	P	25 33.50	0.4
			eSg	25 38.60	
CIO	0.38	23	iPg	25 34.29	-0.2
			iSg	25 40.07	
ALP	0.47	98	e(Pg)	25 36.61	0.3
			iSg	25 43.33	
MNS	0.50	203	P	25 36.70	-0.2
			eSg	25 43.30	
ARV	0.65	360	P	25 39.20	-0.5
			eSg	25 49.70	

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

MAR 04, 1991 21h 33m 19.84± 0.73s
41.091 N ± 6.0km 22.429 E ± 6.1km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MD 3.0 (THE). ML 2.2 (SKO).

GRG	0.14	189	iPd	33 23.14	0.0
			eS	33 25.48	
VAY	0.25	25	iPg	33 25.50	0.3
			iSg	33 29.00	
KNT	0.36	79	iPd	33 27.29	0.0
			eS	33 32.44	
THE	0.61	138	iPd	33 31.57	-0.6
			eS	33 39.24	
FNA	0.85	249	ePd	33 36.00	-0.4
SRS	0.88	88	ePc	33 36.12	-0.6
			eS	33 48.44	
LIT	0.99	177	ePd	33 38.89	0.2
			eS	33 55.00	
PAIG	1.50	140	ePc	33 47.80	1.0

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

• MAR 04, 1991 22h 31m 15.77± 0.73s
15.867 N ±13.7km 93.927 W ± 7.6km
DEPTH = 103.5 ± 6.6 km
4.4mb (8 obs.)
NEAR COAST OF CHIAPAS, MEXICO (69)

SCX	1.51	55	iP	31 42.66	-0.1
			iS	32 01.83	
TPX	1.87	121	iPd	31 47.51	0.2
			iS	32 10.23	
OXX	2.94	295	eP	32 00.56	-1.2
			iS	32 33.00	
IISM	4.53	314	iP	32 22.56	-0.7
			(S)	32 54.56	
LVVM	4.54	328	(P)	32 19.00	-4.4X
			iS	33 03.50	
IIT	5.23	308	eP	32 33.07	-0.2
			(S)	33 17.42	
PPM	5.50	306	(P)	32 38.78	1.6
III	5.86	296	eP	32 41.84	0.0
			(S)	34 05.46	
CRX	6.52	304	(P)	32 03.00	-48.0X
MRX	7.90	300	(P)	33 10.50	0.8
ALQ	22.07	332	eP	36 04.00	0.5
	0.9s		5.25nm		3.9mb
ANMO	22.08	332	eP	36 04.20	0.7
	1.0s		4.25nm		3.7mb
BW06	29.98	337	eP	37 15.80	-0.9
	0.8s		2.50nm		4.0mb
FFC	39.28	353	iPc	38 35.50	-0.3
	0.5s		9.00nm		4.8mb
YKA	48.80	347	eP	39 50.70	-1.2
	0.5s		4.80nm		4.6mb
INK	58.13	344	ePd	41 00.20	-0.3
			pP	41 22.00	87kmX
PDCR	61.11	114	(P)	41 21.00	-0.7
MBC	61.85	353	eP	41 25.50	-0.2
	0.7s		4.00nm		4.5mb
NB2	83.40	28	P	43 33.60	1.0
	0.8s		3.60nm		4.3mb
APO	84.82	28	eP	43 40.50	0.9
	0.9s		8.80nm		4.7mb

S.D. = 0.9 on 18 of 20 obs.

? MAR 04, 1991 22h 53m 38.55± 8.25s
39.936 N ±41.2km 23.958 E ±49.1km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
MD 2.9 (THE).

PAIG	0.21	268	iPd	53 42.50	-0.7
			eS	53 45.52	
THE	1.03	313	ePd	53 57.52	-0.5
			eS	54 10.76	
LIT	1.14	279	ePd	54 00.48	0.6
SRS	1.21	347	iPc	54 00.80	-0.3
			eS	54 17.04	
KNT	1.47	327	ePd	54 05.00	0.0
			eS	54 24.96	
GRG	1.57	311	ePc	54 07.40	0.9

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

? MAR 04, 1991 23h 11m 41.97± 2.81s
42.472 N ±27.6km 4.299 E ±13.1km
DEPTH = 10.0km (geophysicist)
WESTERN MEDITERRANEAN SEA (387)
ML 2.5 (LDG).

CDR	1.61	41	eP	12 10.70	0.1
			e	12 27.60	
			e	12 28.20	
LRG	1.80	56	Pn	12 12.70	-0.6
			Sn	12 34.00	
LMR	1.84	61	Pn	12 14.80	1.0
			Sn	12 36.00	
FRF	2.04	57	Pn	12 16.00	-0.7
			Sn	12 39.40	

SBF	2.68	58	Pn	12 26.30	0.3
			Sn	12 55.00	
CAF	2.94	327	Pn	12 29.60	0.0
			Sn	13 02.00	
PGF	3.48	87	Pn	12 37.20	-0.1
			Sn	13 15.00	
S.D. = 0.7			on	7 of 7 obs.	

& MAR 04, 1991 23h 57m 35.59s
63.784 N 149.059 W
DEPTH = 115.5km
CENTRAL ALASKA (1)
<AEIC>.

MCK	0.08	133	iPc	57 51.53	1.6
			S	58 03.47	
RND	0.39	166	iPc	57 52.39	-0.4
BWN	0.43	335	iPc	57 52.66	-0.2
			eS	58 05.39	
TRF	0.64	239	eP	57 54.12	-0.4
			eS	58 08.68	
NEA	0.80	359	iPd	57 55.05	-0.5
			eS	58 09.74	
WRH	0.81	31	ePc	57 55.33	-0.4
HUR	0.85	198	ePc	57 55.53	-0.6
			eS	58 11.07	
CCB	1.03	32	iPd	57 57.28	-0.5
			eS	58 14.20	
HDA	1.12	55	ePd	57 58.38	-0.4
			eS	58 15.90	
RDS	1.12	20	iPd	57 58.41	-0.4
			eS	58 15.94	
MDM	1.23	17	iPd	57 59.61	-0.5
			eS	58 18.17	
FBA	1.25	26	eP	58 00.00	-0.2
GLM	1.41	30	iPd	58 01.50	-0.6
			eS	58 21.55	
DDM	1.42	88	ePc	58 02.07	-0.2
			eS	58 21.54	
CUT	1.49	202	iPd	58 01.93	-1.0
THY	1.52	103	eP	58 03.32	-0.1
PAX	1.81	115	ePc	58 06.20	-0.8
GHO	2.02	178	ePd	58 08.49	-1.2
SDG	2.03	127	ePc	58 08.85	-0.9
SKT	2.14	213	iPd	58 09.14	-1.9
			S	58 37.45	
TOA	2.14	141	eP	58 10.00	-1.2
PWA	2.17	190	ePd	58 10.76	-0.7
PLRM	2.20	181	eP	58 10.23	-1.6
PMR	2.20	181	eP	58 10.30	-1.5
DOT	2.23	91	ePc	58 11.16	-1.1
KNK	2.40	173	eP	58 12.86	-1.6
SUA	2.46	199	ePd	58 14.71	-0.6
PMS	2.56	185	ePd	58 15.01	-1.6
NCG	2.79	212	ePd	58 17.61	-2.1
CRP	2.91	211	eP	58 19.48	-1.9
VLZ	2.95	153	eP	58 19.55	-2.1
BGL	2.96	213	eP	58 20.57	-1.5
VZW	2.97	156	ePc	58 19.85	-2.3
CKL	3.01	212	eP	58 21.04	-1.6
IMA	3.02	321	eP	58 21.00	-1.8
GLI	3.06	162	ePc	58 20.98	-2.2
NKA	3.22	199	eP	58 25.97	0.7
TTA	3.25	258	eP	58 23.00	-2.8
SLKM	3.33	190	eP	58 25.09	-1.9
GLB	3.38	132	eP	58 26.26	-1.3
			S	59 06.60	
KNIM	3.50	169	ePc	58 26.14	-3.1
RDT	3.58	207	iPc	58 28.93	-1.4
SEW	3.70	183	eP	58 30.15	-1.7
NCT	3.71	211	eP	58 30.97	-1.1
RDN	3.71	210	ePd	58 30.57	-1.6
REF	3.72	209	ePd	58 30.90	-1.5
RS2	3.76	209	eP	58 31.35	-1.5
RSO	3.76	209	eP	58 31.26	-1.6
RED	3.80	209	ePd	58 31.69	-1.6
MTU	3.87	169	eP	58 31.44	-2.7
NNL	3.90	197	eP	58 34.08	-0.5
BALM	4.17	128	eP	58 36.51	-1.8
TGL	4.21	133	eP	58 36.31	-2.6
CNPM	4.40	195	eP	58 39.06	-2.3
PDB	4.69	214	iPd	58 43.38	-2.0
MCNL	5.26	211	ePd	58 50.62	-2.5
CDD	5.35	206	eP	58 51.25	-3.1
SYI	5.44	199	ePd	58 53.21	-2.3
INK	7.77	47	eP	59 25.00	-2.3
59 obs. associated					

& MAR 05, 1991 00h 20m 33.32s
63.066 N 150.863 W
DEPTH = 124.7km
2.7mb (1 obs.)
CENTRAL ALASKA (1)
<AEIC>.

TRF	0.47	34	iPc	20 51.73	-0.3
			eS	21 05.73	
HUR	0.57	98	iPc	20 51.96	-0.5
			eS	21 06.84	
CUT	0.72	157	iPc	20 53.33	-0.2
RND	0.97	69	iPc	20 55.35	-0.5
			S	21 12.49	
MCK	1.10	52	ePc	20 56.66	-0.4
SKT	1.13	196	iPc	20 56.89	-0.5
			eS	21 14.44	
BWN	1.27	29	ePc	20 58.72	-0.1
			S	21 17.94	
PWA	1.49	162	ePd	21 01.24	-0.1
GHO	1.58	144	iPd	21 02.14	-0.3
			eS	21 24.29	
SUA	1.61	178	eP	21 03.11	0.3
PLRM	1.69	151	ePd	21 02.81	-0.8
PMR	1.69	151	eP	21 02.50	-1.1
NEA	1.71	27	eP	21 02.49	-1.4
NCG	1.78	201	ePd	21 04.13	-0.7
WRH	1.87	40	iPc	21 05.05	-0.8
CRP	1.90	199	eP	21 06.03	-0.4
PMS	1.93	161	ePc	21 06.12	-0.5
			eS	21 30.68	
BGL	1.95	202	eP	21 06.70	-0.2
CKL	2.00	201	eP	21 07.19	-0.4
KNK	2.01	145	ePd	21 06.63	-0.9
CCB	2.09	39	ePd	21 07.42	-1.1
RDS	2.14	33	eP	21 08.00	-1.2
HDA	2.20	51	ePd	21 09.04	-0.9
FBA	2.29	35	eP	21 10.32	-0.7
NKA	2.34	185	eP	21 13.30	1.6
TTA	2.35	269	eP	21 11.00	-1.0
DDM	2.36	70	eP	21 11.83	-0.3
TOA	2.38	112	eP	21 11.50	-0.8
GLM	2.46	37	ePc	21 12.58	-0.8
PAX	2.46	90	ePd	21 12.85	-0.6
			eS	21 43.44	
SDG	2.50	100	ePd	21 13.10	-0.8
SLKM	2.59	173	eP	21 14.34	-0.6
RDT	2.61	197	ePc	21 14.65	-0.6
NCT	2.70	202	eP	21 16.24	-0.3
RDN	2.72	200	ePd	21 16.09	-0.7
REF	2.73	199	eP	21 16.63	-0.4
GLI	2.82	139	ePd	21 16.42	-1.7
VZW	2.86	133	eP	21 16.43	-2.2
VLZ	2.88	130	eP	21 16.70	-2.1
SEW	3.05	167	eP	21 19.83	-1.2
KNIM	3.11	150	ePd	21 19.71	-2.1
DOT	3.12	76	iPd	21 20.74	-1.3
IMA	3.25	339	eP	21 22.50	-1.4
MTU	3.45	152	iPc	21 24.66	-1.7
CNPM	3.56	183	ePd	21 27.00	-0.9
PDB	3.66	207	ePc	21 28.50	-0.7
GLB	3.68	113	ePd	21 28.00	-1.5
CDD	4.37	199	eP	21 39.26	0.5
TGL	4.45	118	eP	21 37.19	-2.8
BALM	4.50	113	ePd	21 38.65	-2.0
SYI	4.53	190	eP	21 40.08	-0.9
CTGM	4.96	111	eP	21 45.63	-1.3
YKA	16.46	76	eP	24 16.80	-1.0
	0.5s		0.20nm		2.7mb
53 obs. associated					

* MAR 05, 1991 00h 34m 54.69± 0.77s
9.819 N ± 9.9km 93.208 E ±10.1km
DEPTH = 33.0km (normal)
4.8mb (14 obs.)
NICOBAR ISLANDS REGION (704)

KHT	7.21	46	iPc	36 42.20	1.6
CHG	10.53	31	ePd	37 27.10	0.6
	1.0s		33.00nm		5.5mb
CHTO	10.53	31	iP	37 27.20	0.8
KOD	15.51	273	eP	38 47.10	14.1X
GBA	15.89	285	Pd	38 47.60	9.9X
	0.7s		9.30nm		4.0mb
KMI	17.71	30	Pd	39 01.50	0.7
	1.5s		40.00nm		4.3mb
PKI	19.13	338	P	39 19.20	1.0
DMN	19.27	338	P	39 20.60	0.7
GUN	19.27	340	P	39 20.40	0.4
KKN	19.37	338	P	39 21.20	0.2
GKN	19.81	337	P	39 25.00	-0.6
LSA	19.87	355	P	39 25.00	-1.6
			S	43 07.00	
POO	20.65	297	iPc	39 38.30	3.9X
GYA	20.88	36	P	39 34.80	-2.0
			pP	39 39.00	16kmX
CD2	23.17	24	eP	39 57.20	-2.2
	0.9s		36.00nm		4.9mb
NDI	24.03	324	iPd	40 10.00	2.3
	0.7s		37.67nm		5.0mb
			iS	44 17.00	
LZH	27.88	19	eP	40 40.50	-3.3X
	1.6s		29.00nm		4.7mb
			sP	41 00.00	
QUE	31.78	313	eP	41 22.30	3.7X
WMQ	34.21	353	P	41 38.20	-1.2
	1.0s		16.00nm		4.9mb
WRA	50.14	126	iPc	43 49.50	0.2
	0.3s		7.10nm		5.2mb
WB2	50.15	126	iPc	43 49.50	0.1
	0.3s		7.10nm		5.2mb
ASPA	51.86	131	iPc	44 02.80	0.4
	0.4s		9.80nm		5.1mb
HFS	76.32	330	eP	46 40.20	-1.7
	0.4s		0.80nm		4.1mb
NB2	77.60	330	P	46 47.60	-1.4
	0.9s		1.70nm		4.1mb
LPG	80.60	315	eP	47 06.90	0.9
	0.7s		4.40nm		4.6mb
LPL	80.61	315	eP	47 06.80	0.8
	0.7s		4.40nm		4.6mb
S.D. = 1.3			on	21 of 26 obs.	

? MAR 05, 1991 01h 44m 51.64± 6.48s
39.804 N ±37.8km 23.975 E ±30.1km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
MD 2.8 (THE).

PAIG	0.26	299	iPc	44 57.18	0.1
			eS	44 58.48	
THE	1.13	317	ePd	45 12.76	-0.1
			eS	45 26.29	
LIT	1.18	285	iPc	45 13.62	0.0
			eS	45 27.16	
SRS	1.34	348	ePc	45 16.48	0.1
KNT	1.59	329	iPc	45 19.64	-0.2
			eS	45 38.28	
GRG	1.66	314	ePc	45 21.12	0.1
S.D. = 0.2			on	6 of 6 obs.	

* MAR 05, 1991 01h 49m 24.04± 1.12s
22.687 N ±11.5km 120.588 E ±10.1km
DEPTH = 34.0 ± 9.1 km
4.0mb (3 obs.)
TAIWAN (244)

TWM1	0.20	312	iPd	49 30.90	0.1
			eS	49 34.40	
TWG	0.47	73	iPd	49 33.50	-0.6
			eS	49 38.70	
TWK	0.58	351	iPd	49 34.20	-1.6
TWF1	0.93	45	iPc	49 39.90	-0.9
			eS	49 50.60	
TWO	1.60	8	eP	49 51.50	1.1
			eS	50 11.10	
TWD	1.67	34	ePc	49 52.00	0.6
TWC	2.24	31	eP	50 00.60	1.1
SSE	8.39	4	eP	51 15.00	-11.2X
Z	10s		0.50um		
			Lg	53 40.00	
WRA	44.45	161	P	57 44.00	10.2X
	0.8s		1.60nm		
WB2	44.45	161	iPd	57 34.10	0.3
	0.7s		2.70nm		4.2mb
INK	74.81	22	ePd	01 02.20	-0.2
NB2	79.29	332	P	01 27.80	0.4
	0.7s		0.50nm		3.6mb
YKA	84.56	23	eP	01 54.50	-0.3
	0.6s		0.70nm		4.0mb
S.D. = 1.0			on	11 of 13 obs.	

MAR 05, 1991 01h 56m 26.95± 0.78s

05d 01h

41.091 N ± 6.8km 22.407 E ± 6.7km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.2 (SKO).

GRG	0.13	182	ePc	56 30.24	0.1
VAY	0.26	28	iPg	56 32.70	0.2
			iSg	56 36.20	
KNT	0.38	79	ePd	56 47.50	12.8X
SOH	0.77	110	ePd	56 42.02	0.1
FNA	0.84	249	ePc	56 43.00	-0.2
SRS	0.90	88	ePc	56 43.76	-0.4
LIT	0.99	176	ePc	56 45.96	0.2

S.D. = 0.3 on 6 of 7 obs.

% MAR 05, 1991 02h 03m 03.03± 0.86s
41.142 N ± 9.4km 15.166 E ±11.5km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.59	169	P	03 14.30	-0.7
			eSg	03 23.60	
DUI	0.74	314	P	03 17.70	0.0
			eSg	03 28.50	
MGR	1.05	163	P	03 23.50	0.7
			eSg	03 38.00	
ORI	1.45	137	P	03 29.90	0.5
BRT	1.56	99	P	03 30.70	-0.2
			eSg	03 49.10	
TDS	1.73	148	P	03 32.90	-0.4
			eSn	03 53.80	

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

MAR 05, 1991 02h 04m 24.97± 0.94s
37.016 N ± 9.6km 29.455 E ± 6.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ELL	0.45	126	iPg	04 33.70	-0.5
			iSg	04 38.70	
YER	0.95	278	iPn	04 43.40	0.4
[illegible]	1.01	63	iPn	04 44.50	0.4
	1.24	299	iPgd	04 48.00	0.0
			iSg	05 02.00	
KHL	1.31	2	iPn	04 47.50	-1.7
ALT	2.10	14	ePn	05 02.80	2.1
IZM	2.22	309	ePn	05 02.40	0.0
DST	2.67	346	ePn	05 08.10	-0.7

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

MAR 05, 1991 04h 02m 51.99± 0.94s
36.975 N ± 9.7km 29.423 E ± 6.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ELL	0.45	120	iPg	03 00.70	-0.5
YER	0.93	280	iPn	03 09.90	0.2
BCK	1.05	62	iPn	03 12.50	0.7
CIN	1.24	301	ePn	03 15.00	0.1
			iSg	03 35.00	
KHL	1.35	3	iPn	03 15.60	-1.3
ALT	2.15	14	ePn	03 29.00	0.6

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

MAR 05, 1991 04h 58m 42.45± 0.67s
18.348 S ± 9.2km 69.146 W ± 7.2km
DEPTH = 162.9 ± 6.9 km
4.8mb (4 obs.)
NORTHERN CHILE (123)

CNCB	1.89	36	iPd	59 19.70	1.6
			i	59 47.00	
LPB	2.06	29	iPd	59 19.80	-0.1
ZOBO	2.29	25	iPd	59 23.20	0.5
ARE	2.92	310	iPc	59 30.50	0.3
			iS	00 04.60	
CCH	3.02	72	iPd	59 31.70	0.3
ANT	5.46	192	eP	00 02.90	0.0
SIV	8.07	74	P	00 35.00	-2.8
			S	02 02.00	
NNA	9.75	309	iP	00 58.50	-1.6
	0.5s		7.04nm	4.5mb	
			eS	02 40.00	
PPD	17.14	105	eP	02 33.30	-0.4
			e	02 35.50	
BAO	20.41	86	ePd	03 08.00	-0.6
VAO	21.25	106	eP	03 17.20	0.2
BMA	23.79	105	eP	03 43.00	1.4
SOB1	28.87	75	eP	04 28.20	0.2
			e	04 31.40	
PDCR	29.49	83	eP	04 33.80	0.3
LIC	67.76	75	Pc	09 24.82	-0.1
TIC	67.93	75	P	09 25.86	-0.1
KIC	68.08	75	Pc	09 27.00	0.1
	0.3s		11.00nm	5.1mb	
LKO	68.55	72	Pc	09 30.00	0.1
	0.5s		18.50nm	5.1mb	
YKA	88.15	341	eP	11 16.30	0.8
	0.8s		1.00nm	3.8mb	
GBA	147.56	93	PKPd	18 11.50	4.7X
	0.6s		3.70nm		

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

% MAR 05, 1991 06h 31m 05.62± 0.50s
42.723 N ± 4.3km 19.134 E ± 4.2km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.9 (TTG).

NKY	0.13	312	iPg	31 09.86	0.9
			iSg	31 13.11	
TTG	0.31	162	iPgc	31 12.06	0.0
			iSg	31 17.41	
BRY	0.47	292	iPgd	31 14.65	-0.5
			iSg	31 23.03	
BDV	0.49	207	iPgc	31 15.78	0.1
			iSg	31 24.33	
HCY	0.54	240	iPgc	31 16.31	-0.3
			iSg	31 25.65	
IVA	0.58	75	iPgd	31 17.40	-0.1
			iSg	31 27.48	
PVY	0.63	101	iPgd	31 18.31	-0.1
			iSg	31 28.48	
PLE	0.64	17	iPgd	31 18.26	-0.2
			iSg	31 27.86	
ULC	0.76	173	iPgc	31 20.65	0.1
			iSg	31 33.86	

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

MAR 05, 1991 06h 59m 09.35± 0.30s
40.667 N ± 3.7km 19.593 E ± 2.5km
DEPTH = 10.0km (geophysicist)
3.9mb (4 obs.)
ALBANIA (391)
ML 3.9 (TTG). MD 4.0 (ATH), 3.8 (THE). Felt (V) at Bollesh. Also felt at Roskovec, Fier, Vlore and Berot.

KEK	0.97	171	iPgc	59 26.00	-1.7
OHR	1.02	64	iPgd	59 27.50	-1.1
	0.6s		1431.00nm		
			iSg	59 43.00	
			Lg	59 48.90	
IGT	1.27	153	iPd	59 33.48	0.6
			eS	59 50.24	
LCI	1.29	256	P	59 33.00	-0.3
			eSg	59 53.80	
ULC	1.32	349	ePn	59 35.50	1.8
			eSn	59 59.00	
FNA	1.36	85	eP	59 33.20	-1.2
BDV	1.71	341	ePn	59 41.00	1.6
			eSn	00 08.20	
TTG	1.78	352	ePn	59 42.00	1.7
			eSn	00 11.00	
BRT	1.83	277	Pc	59 42.60	1.6
			eSn	00 12.00	
SKO	1.91	46	iPnc	59 44.00	1.8
	N 10s		2.36um		
			i	59 46.80	
			i	59 50.00	
			i	00 07.00	
			iSn	00 08.00	
			i	00 10.50	
			i	00 13.00	
			Lg	00 16.00	
			LR	00 25.00	
PVY	1.95	8	iPnd	59 45.90	3.0X
			eSn	00 18.20	
HCY	1.96	336	iPnd	59 44.00	1.1
			eSn	00 12.50	
BAI	2.12	283	P	59 47.00	1.8
GRG	2.15	81	ePc	59 45.80	0.0
			eS	00 10.64	
NKY	2.19	348	ePn	59 48.00	1.6
			eSn	00 20.00	
IVA	2.21	6	iPnd	59 50.00	3.3X
			eSn	00 24.00	
LIT	2.28	103	ePc	59 47.72	0.0
			iS	00 17.08	
VAY	2.35	73	iPnd	59 49.60	1.1
			i	26 26.00	
BRY	2.37	341	ePn	59 50.00	1.1
			eSn	00 23.00	
ORI	2.48	257	P	59 51.00	0.6
KNT	2.55	78	ePd	59 51.46	0.0
THE	2.57	90	ePc	59 54.00	2.4
PLE	2.66	357	ePn	59 56.00	2.8
			eSn	00 32.20	
AGG	2.67	127	eP	59 54.00	0.8
TDS	2.69	249	P	59 55.00	1.5
SOH	2.86	86	eP	59 56.20	0.3
SRS	3.06	80	ePc	59 58.28	-0.4
MGR	3.13	262	P	00 01.10	1.5
PAIG	3.21	102	ePc	00 00.28	-0.5
			eS	00 36.17	
MMB	3.26	72	eP	00 01.00	-0.5
SGO	3.26	269	P	00 03.10	1.6
VTS	3.32	53	iPd	00 03.00	0.4
HVAR	3.44	318	iPnc	00 04.00	0.0
			i(Sn)	00 42.90	
SOI	3.77	228	P	00 08.00	-0.8
PGB	3.91	60	eP	00 11.00	0.2
RZN	4.00	74	eP	00 00.00	-12.2X
DUI	4.00	286	P	00 14.10	2.0
ATN	4.06	233	P	00 11.90	-1.0
			eSn	01 01.50	
PLD	4.10	68	eP	00 10.00	-3.4X
BEO	4.20	8	ePn	00 22.50	7.7X
			ePg	00 36.00	
			eSg	01 31.00	
BLY	4.45	337	eP	00 34.00	15.7X
			eS	01 12.00	
KDZ	4.50	76	iPc	00 19.00	-0.2
DIM	4.68	71	eP	00 10.00	-11.7X
MNO	4.68	236	P	00 21.70	-0.2
AZI	4.82	288	P	00 25.00	1.3
AQU	4.94	292	P	00 25.10	-0.4
ALP	4.97	297	iPnc	00 26.01	0.1
			iSn	01 22.57	
PVL	4.98	57	iPd	00 25.00	-0.9
GIB	5.08	240	P	00 27.30	-0.1
BZS	5.16	16	ePc	00 29.00	0.5
AOI	5.31	305	ePn	00 29.90	-0.7
			eSn	01 29.12	
CIO	5.43	300	ePn	00 31.70	-0.7
			iSn	01 32.70	
MNS	5.47	291	P	00 34.20	1.3
ARV	5.70	302	P	00 35.50	-0.6
ASS	5.70	297	P	00 36.90	0.7
VBY	5.78	328	ePn	00 38.20	1.0
			eSn	01 41.00	
UZD	5.97	353	e(P)	00 48.00	8.2X
RIY	6.03	322	ePn	00 39.80	-0.9
			iSn	01 48.70	
CMP	6.09	39	eP	01 07.00	25.4X
CEY	6.32	325	ePnd	00 44.50	-0.3
			eSn	01 56.50	
CRE	6.40	300	P	00 45.50	-0.6
LJU	6.52	327	ePn	00 47.30	-0.3
			eSn	02 00.30	
SFI	6.60	302	P	00 48.90	0.2
TRI	6.60	322	ePn	00 47.00	-1.7
			iSn	02 01.00	
PGD	6.66	301	P	00 49.80	0.0
MLR	6.70	42	ePc	01 01.50	11.2X
VOY	6.78	324	ePnd	00 50.20	-1.2
			eSn	02 06.40	
VRI	7.36	43	ePd	01 00.00	0.6
VVI	7.45	318	P	00 59.10	-1.6
MME	7.46	301	P	01 01.80	0.7
BDI	7.48	300	P	01 00.00	-1.1
FVI	7.71	322	P	01 03.20	-1.1
			eSn	02 28.10	
KBA	7.84	327	iPnc	01 05.00	-1.2
			iSn	02 31.80	
CTI	7.90	316	P	01 04.70	-2.4
PGF	8.16	287	eP	01 12.20	1.5
	0.6s		6.30nm	5.0mb X	
BOB	8.52	302	P	01 15.00	-0.7
WTTA	8.74	322	iPnc	01 18.40	-0.4

		iSn	02	54.00		
SQTA	8.91	320 iPnc	01	20.50	-0.6	
		iSn	02	59.30		
CKI	9.15	298 P	01	22.90	-1.5	
LPL	10.58	302 eP	01	42.50	-1.7	
	0.5s	4.35nm		5.1mb	X	
MOX	11.43	334 eP	01	54.00	-1.5	
BSF	11.63	312 eP	01	53.40	-5.1X	
HFS	19.83	351 eP	03	43.10	0.2	
	0.5s	1.60nm		3.6mb		
NUR	20.11	7 eP	03	43.00	-2.8	
EKA	21.00	322 Pc	03	54.70	-0.4	
	1.1s	20.10nm		4.4mb		
NB2	21.04	349 P	03	56.20	0.7	
	0.8s	4.40nm		3.9mb		
KAF	21.86	8 eP	04	01.00	-2.7	
GKN	54.06	82 P	08	32.00	-4.4X	
DMN	54.62	82 P	08	36.80	-3.9X	
KKN	54.65	82 P	08	36.80	-4.1X	
PKI	54.87	82 P	08	38.30	-4.3X	
GUN	55.04	81 P	08	39.80	-4.1X	
YKA	70.81	339 eP	10	25.50	-2.1	
	0.9s	1.00nm		3.9mb		
	S.D. = 1.2	on 77 of 93 obs.				

? MAR 05, 1991 07h 37m 16.39± 4.18s
9.018 N ±46.3km 92.568 E ±10.0km
DEPTH = 33.0km (normal)
NICOBAR ISLANDS REGION (704)

NNT	7.88	63 eP	39	12.00	0.3	
KHT	8.22	45 eP	39	15.50	-0.9	
CHG	11.53	32 eP	40	02.20	0.3	
CHTO	11.53	32 eP	40	02.20	0.3	
KOD	14.94	276 eP	40	57.30	10.0X	
GBA	15.52	288 P	41	02.30	7.8X	
		S	43	36.30		
PKI	19.65	341 P	41	46.00	0.1	
DMN	19.79	340 P	41	47.80	0.6	
GUN	19.82	342 P	41	46.80	-0.9	
KKN	19.90	341 P	41	49.60	1.2	
GKN	20.31	339 P	41	51.60	-1.0	
LZH	28.84	19 eP	43	03.50	-10.6X	
	2.0s	18.00nm				
WRA	50.19	125 P	46	39.00	27.6X	
	1.7s	2.20nm				
WB2	50.20	125 iPd	46	17.40	6.0X	
	0.3s	29.00nm		5.8mb		
ASPA	51.84	130 iPc	46	30.20	6.3X	
	0.4s	7.20nm		5.0mb		
STK	62.02	133 eP	47	55.90	19.8X	
	0.4s	1.90nm				
	S.D. = 0.9	on 9 of 16 obs.				

? MAR 05, 1991 08h 40m 53.75± 0.70s
19.583 S ±14.8km 64.252 W ±13.8km
DEPTH = 334.8 ± 15.7 km
3.8mb (1 obs.)
SOUTHERN BOLIVIA (125)

CNCB	4.49	307 P	42	08.00	-0.2	
		S	42	29.30		
SIV	4.68	41 P	42	37.00	27.2X	
		i	44	14.00		
LPB	4.75	309 P	42	10.00	-1.0	
ZOBO	4.94	311 P	42	14.30	1.1	
		S	43	40.00		
ANT	7.05	233 iP	42	45.50	8.5X	
		iS	43	21.30		
TCA	11.71	181 ePc	43	33.50	0.1	
PPD	12.34	104 eP	43	41.70	0.6	
		e	43	45.30		
BAO	15.99	78 ePd	44	40.00	17.5X	
VAO	16.46	105 eP	44	25.90	-1.5	
		e	45	58.50		
BMA	19.00	103 eP	44	53.80	0.7	
YKA	90.90	339 eP	53	20.70	0.2	
	0.6s	0.70nm		3.8mb		
PKI	151.14	68 PKP	00	00.00	-3.4X	
	S.D. = 1.1	on 8 of 12 obs.				

& MAR 05, 1991 08h 41m 25.84s
45.786 N 122.679 W
DEPTH = 20.0km
WASHINGTON-OREGON BORDER REGION (28)
<SEA>. CL 3.1 (SEA). Felt (IV) at Kalama and Woodland, Washington. Felt (III) at Ridgefield, Washington. Also felt at Brush Prairie and Vancouver, Washington.

LVP	0.34	34 Pd	41	32.65	-0.6	
PGO	0.36	153 Pd	41	32.98	-0.5	
FL2	0.47	29 Pd	41	34.82	-0.6	
SHW	0.51	37 iPc	41	35.60	-0.5	
VLMM	0.51	119 Pd	41	35.58	-0.6	
JLK	0.51	45 Pd	41	35.33	-0.8	
STD	0.55	35 Pd	41	36.01	-0.8	
ERK	0.57	24 Pd	41	36.21	-0.9	
KMOR	0.59	255 Pc	41	36.56	-0.8	
SOSW	0.59	40 Pc	41	36.67	-0.8	
TDL	0.65	30 Pd	41	37.61	-0.9	
		S	41	46.47		
CZM	0.66	10 Pd	41	37.85	-0.7	
GT2	0.69	155 Pd	41	38.25	-0.9	
APM	0.70	94 Pc	41	38.77	-0.5	
KOSW	0.76	27 Pd	41	39.41	-0.8	
GULW	0.77	79 Pd	41	39.56	-0.9	
VLL	0.77	114 Pc	41	40.04	-0.5	
		S	41	50.08		
BMW	0.79	331 Pd	41	39.81	-1.0	
ASR	0.84	64 Pd	41	40.75	-1.0	
APW	0.87	1 Pd	41	41.33	-0.7	
VFP	0.97	118 Pc	41	43.17	-0.8	
VBEM	1.06	133 Pc	41	44.76	-0.7	
		S	41	58.77		
GLK	1.08	43 Pd	41	44.84	-0.9	
LON	1.14	32 Pd	41	45.85	-0.8	
WPW	1.20	40 Pd	41	47.02	-0.7	
COR	1.28	200 Pd	41	47.93	-0.7	
		S	42	05.89		
GL2	1.31	82 Pc	41	49.21	0.1	
ONR	1.33	326 P	41	48.92	-0.4	
VGB	1.36	101 Pc	41	49.48	-0.3	
CROR	1.44	123 Pc	41	50.77	-0.2	
NAC	1.60	53 P	41	54.29	1.1	
VTHM	1.61	111 Pd	41	53.39	0.0	
YAKW	1.67	63 P	41	56.44	2.2	
GMW	1.76	358 eP	41	55.30	-0.3	
RMW	1.78	19 eP	41	56.00	0.1	
MXC	1.84	64 P	41	56.90	0.2	
TWW	1.84	42 P	41	58.41	1.6	
EBG	1.84	52 P	41	57.49	0.7	
VIPM	1.94	131 Pc	41	58.03	-0.3	
TBM	2.00	45 P	42	01.27	2.2	
JBO	2.02	98 P	41	58.80	-0.6	
MCW	2.90	358 eP	42	12.90	1.1	
DPW	3.71	54 e(P)	42	26.50	3.0	
PNT	4.10	29 P	42	37.00	8.2	
	0.5s	2.60nm				
NEW	4.54	55 e(P)	42	38.00	2.9	
	45 obs. associated					

• MAR 05, 1991 08h 44m 11.09± 1.06s
13.528 N ± 9.5km 121.774 E ±13.9km
DEPTH = 91.4 ± 7.4 km
3.5mb (1 obs.)
MINDORO, PHILIPPINE ISLANDS (250)

PGP	0.80	268 iPd	44	29.00	0.1	
		iS	44	53.00		
QCP	1.29	329 eP	44	34.00	-0.7	
BAG	3.09	338 eP	45	00.00	1.1	
CVP	4.15	1 eP	45	13.00	-0.4	
	8.0s	4.00nm				
WRA	35.49	159 P	51	01.00	0.1	
	1.5s	0.90nm		3.5mb		
GUN	36.34	299 P	51	08.80	0.3	
PKI	36.65	298 P	51	11.00	-0.1	
KKN	36.82	298 P	51	12.50	0.1	
DMN	36.92	298 P	51	13.10	-0.2	
GKN	37.42	299 P	51	16.90	-0.5	
	S.D. = 0.6	on 10 of 10 obs.				

? MAR 05, 1991 09h 10m 42.42± 0.97s
39.142 N ± 9.0km 27.596 E ± 9.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZM	0.79	199 ePg	10	57.60	-0.2	
		eSg	11	08.60		
DST	0.92	60 ePn	11	00.70	0.6	
EZN	1.20	305 ePn	11	05.00	0.3	
KCT	1.25	28 ePn	11	05.00	-0.7	
IZI	1.88	50 ePg	11	49.80	34.9X	
		eSg	11	58.80		
	S.D. = 1.0	on 4 of 5 obs.				

MAR 05, 1991 09h 18m 01.71± 0.66s
22.996 N ± 8.5km 102.196 E ± 7.3km
DEPTH = 33.0km (normal)
4.4mb (5 obs.)
YUNNAN PROVINCE, CHINA (318)
ML 5.0 (BJI).

KMI	2.18	13 Pnd	18	39.00	2.5	
		Pg	18	42.50		
		Sn	19	06.50		
		Sg	19	08.50		
CHG	5.15	217 ePn	19	20.00	1.4	
		ePg	19	39.10		
		iSg	20	46.30		
GYA	5.33	49 iPnd	19	17.80	-3.4X	
		Pg	19	37.60		
		Sn	20	25.00		
		Sg	20	48.00		
BDT	6.46	208 ePg	19	28.00	-9.0X	
QIZ	8.16	118 eP	20	03.80	3.0X	
N	10s	1.50um				
SHL	9.75	287 iP	20	23.50	0.5	
		eS	23	04.00		
XAN	12.49	27 P	20	55.90	-4.0X	
N	10s	1.30um				
E	10s	2.20um				
LZH	13.12	6 eP	21	07.50	-1.0	
	2.0s	25.00nm		4.9mb		
Z	12s	0.47um		3.8MszX		
WHN	13.20	53 eP	21	08.00	-1.4	
		pP	21	19.00		
		S	23	30.00		
		sS	23	39.50		
GUN	15.53	292 P	21	42.80	2.6X	
PKI	15.85	290 P	21	44.40	0.0	
KKN	16.01	291 P	21	47.40	1.1	
DMN	16.12	290 P	21	46.20	-1.6	
GTA	16.49	353 eP	21	56.40	4.2X	
GKN	16.61	291 P	21	52.20	-1.7	
BTO	18.75	19 eP	22	20.00	-0.3	
N	11s	0.80um				
E	11s	1.10um				
		esP	22	25.50		
HHC	19.47	22 eP	22	29.60	0.7	
N	13s	1.60um				
BJI	20.71	32 eP	22	42.00	0.3	
Z	12s	0.90um		4.4MszX		
GBA	25.26	253 Pd	23	34.00	7.4X	
	0.8s	2.60nm		3.9mb		
WRA	52.97	141 iPc	27	17.10	-0.4	
	0.7s	5.90nm		4.7mb		
WB2	52.97	141 iPc	27	17.10	-0.4	
	0.7s	5.90nm		4.7mb		
INK	80.35	18 eP	30	11.00	0.3	
YKA	89.92	16 eP	31	05.30	6.7X	
	0.8s	0.30nm		3.6mb		
	S.D. = 1.3	on 15 of 23 obs.				

& MAR 05, 1991 10h 29m 29.90s
32.400 N 117.170 W
DEPTH = 6.0km (geophysicist)
CALIFORNIA-MEXICO BORDER REGION (45)
<PAS-P>. ML 3.7 (PAS). MD 3.5 (ECX). Felt (IV) at Dulzura and Jamul and (III) at Santee, California. Also felt in the Imperial Beach-San Diego area, California.

CBX	0.44	101 ePc	29	38.83	0.1	
		S	29	45.10		
CPE	0.48	7 iPd	29	39.30	-0.3	
		eS	29	45.60		
BAR	0.51	56 iPd	29	39.40	-0.6	
ENX	0.67	140 ePd	29	43.18	-0.2	
		S	29	52.40		
PBX	0.76	150 ePd	29	44.84	-0.2	
		S	29	55.86		
IKP	0.93	74 iPd	29	47.00	-1.1	
		eS	29	58.50		
PLM	0.99	15 iPd	29	47.40	-1.7	
SCI	1.30	297 ePc	29	52.00	-2.3	

05d 10h

CIS	1.44	314	ePc	29 53.50	-3.1
PEC	1.49	0	iPd	29 55.80	-1.4
GLA	2.08	71	iPc	30 04.80	-1.0
ABL	2.98	326	eP	30 18.30	-0.5
BCH	3.69	320	eP	30 26.00	-2.8
TNP	5.67	360	e(P)	30 57.00	0.1
CMB	6.21	336	e(P)	31 06.50	2.2

15 obs. associated

MAR 05, 1991 10h 30m 04.42± 0.65s
41.282 N ± 8.0km 141.763 E ±11.5km
DEPTH = 54.9 ± 9.8 km
3.7mb (3 obs.)
HOKKAIDO, JAPAN REGION (224)

AOMJ	1.28	236	iP+	30 25.00	-1.2
			S	30 47.00	
HOOJ	1.58	45	P	30 30.70	0.2
			S	30 51.70	
OFUJ	2.20	182	iP+	30 38.00	-1.2
			S	31 04.30	
KUSJ	2.84	49	P	30 48.10	-0.2
			S	31 22.10	
ASAJ	2.91	13	eP	30 48.80	-0.4
			S	31 24.50	
YAMJ	3.38	204	P	30 56.10	0.2
NIIJ	4.57	209	eP	31 14.20	1.6
KAKJ	5.22	194	P	31 20.10	-1.7
			eS	32 19.00	
MAT	5.48	211	(P)	31 26.00	0.4
			eS	32 10.00	
MTMJ	5.61	215	P	31 30.60	3.2X
CHJJ	5.66	203	eP	31 29.00	1.1
IIDJ	6.53	209	eP	31 42.10	1.8
GUN	47.15	272	P	38 33.60	0.1
KKN	47.66	272	P	38 37.00	-0.4
GKN	48.03	273	P	38 39.80	-0.4
INK	50.51	29	eP	39 00.00	1.5
YKA	60.02	31	eP	40 07.60	0.3
	0.8s		0.50nm		3.7mb
WRA	61.30	188	P	40 15.00	-1.4
	2.2s		1.10nm		3.6mb
NB2	70.39	337	P	41 14.00	-0.1
	0.4s		0.60nm		3.9mb

S.D. = 1.1 on 18 of 19 obs.

MAR 05, 1991 11h 16m 30.43± 0.71s
43.170 N ± 6.0km 18.913 E ± 5.4km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.7 (TTG).

NKY	0.36	170	iPgd	16 37.95	0.0
			iSg	16 45.55	
BRY	0.38	225	iPgd	16 37.06	-1.2
			iSg	16 44.31	
PLE	0.39	65	iPgc	16 36.95	-1.4
			iSg	16 42.03	
IVA	0.78	112	iPgc	16 45.36	-0.3
			iSg	16 57.73	
TTG	0.78	161	iPgc	16 44.83	-0.8
			iSg	16 58.00	
HCY	0.78	203	iPgd	16 45.33	-0.4
			iSg	16 59.28	
BDV	0.89	184	iPgc	16 47.88	0.4
			iSg	17 03.35	
PVY	0.97	126	iPgc	16 48.76	-0.2
			iSg	17 04.66	
ULC	1.23	168	iPgc	16 54.00	0.7
			iSg	17 14.25	
HVAR	1.80	271	ePn	17 02.10	0.3
			iSn	17 25.60	
BLY	2.01	322	eP	17 05.50	0.7
SKO	2.22	122	ePn	17 10.00	2.2
OHR	2.49	145	ePn	17 17.30	5.6X

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

MAR 05, 1991 11h 58m 52.62± 0.83s
38.237 N ± 7.2km 21.985 E ± 8.9km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 3.0 (ATH). MD 3.2 (THE).

AGG	0.83	19	ePd	59 07.50	-1.2
			eS	59 19.80	
VLS	1.10	267	ePn	59 13.00	-0.3
ATH	1.39	100	ePn	59 18.80	0.8
VLI	1.69	153	ePn	59 22.00	-0.4
LIT	1.90	12	ePc	59 25.96	0.6
KZN	2.07	355	ePn	59 29.80	1.9
			eSn	59 56.00	
KEK	2.25	312	ePb	59 36.50	6.0X
FNA	2.59	350	ePd	59 36.00	0.7
GRG	2.73	7	ePd	59 37.40	0.0
SOH	2.79	22	ePd	59 38.00	-0.2
OHR	3.01	343	ePn	59 46.50	5.2X
VAY	3.11	8	ePn	59 40.70	-1.9
SKO	3.75	354	ePn	00 08.00	16.2X

S.D. = 1.2 on 10 of 13 obs.

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* MAR 05, 1991 12h 16m 41.44± 0.82s
18.818 N ±11.1km 146.627 E ±21.0km
DEPTH = 33.0km (normal)
4.5mb (4 obs.)
MARIANA ISLANDS (216)

IIDJ	18.30	337	eP	20 55.20	0.7
CHJJ	18.44	340	P	20 57.20	1.0
MAT	19.15	339	eP	21 04.00	-0.8
	0.8s		4.48nm		3.8mb
			eS	24 16.00	
MTMJ	19.33	338	P	21 06.30	-0.7
NIIJ	19.53	342	eP	21 08.80	-0.4
ASPA	44.01	197	iPd	24 47.80	0.0
	0.8s		12.20nm		4.8mb
INK	68.92	23	eP	27 44.50	-0.3
YKA	77.47	28	eP	28 34.60	-0.3
	0.5s		1.20nm		4.2mb
FFC	86.52	33	eP	29 23.00	0.8
	0.8s		10.00nm		5.1mb

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

MAR 05, 1991 12h 51m 21.12± 0.62s
40.605 N ± 5.4km 29.063 E ± 5.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

GBZT	0.34	58	ePg	51 28.00	-0.2
			eSg	51 33.30	
IZI	0.41	130	iPg	51 30.10	0.5
			eSg	51 36.20	
ISK	0.46	360	iPg	51 30.20	-0.3
			iSg	51 36.20	
HRT	0.51	65	iPg	51 31.20	-0.2
			iSg	51 38.20	
BNT	0.91	254	iPg	51 38.10	-0.4
			iSg	51 51.60	
DST	1.05	199	ePn	51 40.70	-0.3
DMK	1.56	321	ePn	51 49.90	0.9

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

MAR 05, 1991 13h 11m 30.53± 0.82s
38.274 N ± 7.2km 21.935 E ± 8.8km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 3.0 (ATH). MD 3.5 (THE).

AGG	0.81	22	ePd	11 44.20	-2.0
			eS	11 56.00	
VLS	1.06	265	ePn	11 50.00	-0.6
ATH	1.44	102	ePn	11 57.00	0.4
VLI	1.75	153	ePn	12 01.00	0.0
LIT	1.87	13	ePd	12 03.00	0.1
			eS	12 28.30	
KZN	2.03	356	ePn	12 06.80	1.5
FNA	2.54	350	ePd	12 12.90	0.4
			eS	12 45.80	
OHR	2.97	343	ePn	12 23.50	5.0X
KNT	2.98	14	ePd	12 18.00	-0.7
			eS	12 55.10	
VAY	3.08	9	ePn	12 21.00	0.9
SKO	3.71	354	ePn	12 34.40	5.3X

S.D. = 1.2 on 9 of 11 obs.

% MAR 05, 1991 13h 15m 43.85± 0.55s
42.766 N ± 5.8km 19.171 E ± 4.3km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.6 (TTG).

NKY	0.14	290	iPgd	15 47.37	0.2
			iSg	15 50.66	
TTG	0.34	169	iPgd	15 50.82	-0.1
			iSg	15 56.41	
BRY	0.48	286	iPgc	15 53.46	-0.2
			iSg	16 01.09	
IVA	0.55	79	iPgc	15 54.91	0.0
			iSg	16 03.57	
PLE	0.59	16	iPgd	15 55.76	0.0
			iSg	16 04.94	
HCY	0.59	238	iPgc	15 55.86	0.1
			iSg	16 04.87	
PVY	0.62	106	iPgc	15 56.42	0.1
			iSg	16 05.97	

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

MAR 05, 1991 13h 49m 06.36± 0.16s
3.231 N ± 3.2km 83.343 W ± 2.6km
DEPTH = 15.3km (geophysicist)
5.9mb (66 obs.) 5.5Msz (13 obs.)
OFF COAST OF CENTRAL AMERICA (76)
Ms 5.2 (PAS). Depth from broadband displacement seismograms.
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 45 Dip=54 Slip= 39
NP2: 290 59 137
Principol Axes:
T Plg=51 Azm=254
P 3 348
Comment: The focol mechonism 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 sto: 11 Focol mech. F
Energy 1.8±0.5•10••13 Nm
MOMENT TENSOR SOLUTION
Dep 23 No. of sto: 9
Moment Tensor; Scale 10••17 Nm
Mrr= 2.57 Mtt=-2.94
Mff= 0.37 Mrt=-1.52
Mrf=-0.78 Mtf= 1.23
Principol axes:
T Vol= 3.36 Plg=63 Azm=129
N 0.23 24 280
P -3.59 12 15
Best Double Couple:Mo=3.5•10••17
NP1:Strike=132 Dip=39 Slip= 129
NP2: 266 61 63
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 23S, 52C
Centroid Locotion:
Origin Time 13:49: 8.6 0.5
Lat 3.16N 0.05 Lon 83.13W 0.05
Dep 15.0 BDY Holf-duration 2.5
Moment Tensor; Scole 10••17 Nm
Mrr= 3.29 0.13 Mtt=-2.53 0.11
Mff=-0.76 0.18 Mrt=-1.15 0.56
Mrf= 0.04 0.36 Mtf= 0.25 0.13
Principol Axes:
T Vol= 3.51 Plg=79 Azm=180
N -0.73 1 277
P -2.79 11 7
Best Double Couple:Mo=3.2•10••17
NP1:Strike= 99 Dip=34 Slip= 92
NP2: 276 56 88

DVD	5.25	10	iPd	50 24.00	-2.1
COTA	5.77	120	eP	50 33.50	-0.5
YANA	5.81	125	eP	50 33.30	-1.2
GGP	5.83	125	eP	50 35.00	0.2
OUR	5.88	125	eP	50 35.00	-0.4
OTO	5.90	125	eP	50 36.00	0.3
CUMC	5.91	112	P	50 34.32	-1.6
CAYA	6.20	120	eP	50 40.00	-0.1
VC1	6.26	128	eP	50 42.50	1.7
PSO	6.35	108	eP	50 41.50	-0.5
ANCC	6.47	87	P	50 42.47	-1.0
SALC	6.64	92	P	50 44.18	-1.8
HOOC	6.70	88	P	50 45.57	-1.3
TUNG	6.73	133	eP	50 48.70	1.3
CLMC	6.80	84	P	50 47.12	-1.0
ANGL	6.82	122	eP	50 36.60	-12.1X
UPA	6.85	33	iPc	50 49.00	0.3
SILC	7.02	94	P	50 50.30	-1.1
PURC	7.03	97	P	50 51.34	-0.4
BUGC	7.10	84	P	50 51.57	-0.8

DIAC	7.13	89	P	50	52.16	-0.7					pP	56	33.70	21kmX			1.6s	187.50nm			5.8mb								
HOBC	7.28	81	P	50	53.96	-0.9		SAN	38.40	163	eP	56	28.00	-1.0		FFC	53.53	347	eP	58	28.00	-0.4							
BOG	9.36	81	iPc	51	26.00	2.0		TACH	38.51	163	eP	56	30.00	0.2			1.6s	17.00nm			4.8mb	X							
			iS	53	26.00			PCH	38.60	163	eP	56	29.50	-1.2		COR	54.13	326	ePc	58	32.52	-0.3							
FUQ	9.83	77	eP	51	29.50	-1.0		LNV	38.66	164	eP	56	26.80	-4.2X					epPd	58	37.32	16kmX							
BMG	10.91	69	iPd	51	50.50	5.4X		BDF	39.77	119	ePc	56	37.63	-3.1X		LON	54.68	328	ePc	58	35.17	-1.9							
SDV	13.83	65	eP	52	25.50	1.2					e	56	50.38			BMW	55.25	327	P	58	40.00	-1.3							
TPX	14.55	323	(P)	52	35.50	1.8		PPD	40.14	130	(P)	56	43.00	-0.5		PNT	55.31	332	ePc	58	41.00	-0.6							
TOV	14.95	64	eP	52	39.40	0.5		GLD	41.41	334	P	56	55.00	1.0			1.7s	435.00nm			6.2mb								
STH	16.08	23	eP	52	56.45	2.9		GOL	41.44	334	iP	56	54.80	0.5		EDM	55.62	339	iPc	58	42.50	-1.3							
BBJ	16.19	21	eP	53	01.86	6.9X			2.2s	488.51nm			5.8mb			GMW	55.70	329	P	58	42.80	-1.6							
NNA	16.44	157	iPd	52	57.70	-0.5					pP	57	01.20	22kmX		YKA	63.52	344	eP	59	35.70	-2.3							
	1.2s	234.38nm			5.2mb			GLA	41.80	319	eP	56	58.00	0.9			1.1s	33.10nm			5.4mb								
Z	20s	4.26um			4.3Msz			RSNY	41.87	9	P	56	56.00	-1.5		MBO	66.34	76	eP	59	57.40	0.4							
			eS	55	04.00				1.4s	141.45nm			5.5mb			GDH	68.84	11	ePc	00	10.00	-1.8							
PT10	16.47	157	e(P)	52	59.00	0.4		PV09	42.26	329	ePc	57	01.20	0.1			2.0s	235.29nm			6.0mb								
CAR	17.82	65	iPd	53	16.00	0.4		BAR	42.81	317	eP	57	06.00	0.7					e	09	16.00								
OXX	19.03	317	(P)	53	33.00	2.5		GAC	42.86	8	eP	57	05.00	-0.5		BALM	72.59	334	eP	00	34.50	-0.3							
LVVM	20.81	323	(P)	53	49.50	-0.2		TPC	43.25	319	eP	57	09.00	0.0		INK	73.16	343	ePc	00	37.80	-0.1							
IISM	20.82	320	(P)	53	52.00	2.1		PLM	43.34	318	eP	57	10.00	0.2			1.3s	127.00nm			5.8mb								
IIT	21.46	318	(P)	54	00.00	3.3X		PEC	43.86	318	P	57	14.00	0.2		GLB	73.41	334	ePc	00	22.06	-17.4X							
PPM	21.70	318	(P)	54	01.50	2.1		MSU	43.87	327	P	57	14.00	-0.1		MBC	75.66	352	ePc	00	52.50	0.3							
III	21.81	315	(P)	54	01.50	1.3		VAO	44 03	128	eP	57	05.90	-9.5X			1.5s	389.00nm			6.2mb								
UNM	22.26	317	(P)	54	08.00	3.2X					e	57	14.50			PMR	75.82	333	e(P)	00	53.20	-0.1							
CRX	22.65	316	(P)	54	12.50	3.8X		RVR	44.06	318	eP	57	16.00	0.6		PTO	76.40	49	iPc	00	57.70	0.7							
ARE	22.80	149	eP	54	12.00	1.9		SOB1	44.07	107	eP	57	14.80	-1.0		TIO	76.41	59	iP	00	59.00	1.5							
			e	58	28.00			GSC	44.48	320	ePc	57	19.92	1.0					i	01	11.50								
			e	02	28.00						epPd	57	24.39	15kmX		FBA	76.45	337	eP	00	56.60	-0.2							
FCV	23.97	64	eP	54	22.46	1.3					eS	04	01.13			EZAM	76.47	48	iPd	00	58.00	0.6							
SVB	24.00	64	eP	54	23.00	1.5					e	04	15.20			AVE	76.47	57	iP	00	58.50	0.9							
SLB	24.41	63	eP	54	28.00	2.5		RSSD	44.64	339	iPc	57	21.70	1.4		STS	76.68	47	iPd	00	58.90	0.4							
ZOBO	24.53	143	ePc	54	28.48	1.2			2.0s	514.42nm			6.1mb			LKO	77.40	81	Pc	01	02.58	-0.5							
			S	59	00.00						PcP	59	07.20				1.3s	153.00nm			5.9mb								
			LR	03	38.00						PP	59	29.50			EMON	77.64	46	iPd	01	04.30	0.4							
DPMT	24.71	60	eP	54	29.29	0.9		MWC	44.65	318	eP	57	21.00	0.5		ERUA	77.64	47	iPc	01	04.10	0.2							
MDN	24.73	60	eP	54	29.41	0.9		PAS	44.68	318	ePc	57	21.25	0.7		TIC	78.04	84	Pc	01	06.24	-0.4							
DBCT	24.75	60	eP	54	29.32	0.6					ePcP	58	38.00				1.3s	59.50nm			5.5mb								
BBL	24.75	59	eP	54	26.00	-2.8					ePP	59	02.00			LIC	78.05	84	P	01	06.26	-0.4							
PAG	24.82	58	eP	54	28.00	-1.4					eS	04	04.15				1.3s	104.50nm			5.7mb								
CNCB	25.04	143	iPc	54	33.70	1.6					esS	04	12.54			Z	20s	0.50um			4.8Msz								
MGG	25.07	58	eP	54	31.00	-0.8					e	04	20.04			EPLA	78.18	50	iPc	01	07.30	0.3							
SEG	25.14	57	eP	54	34.00	1.5					eSS	07	40.00			KIC	78.33	84	Pc	01	07.80	-0.4							
BPA	25.17	55	eP	54	33.00	0.2					eLg	09	02.00				1.4s	92.00nm			5.7mb								
DEG	25.48	58	eP	54	33.00	-2.7					eLR	11	20.00			IFR	78.40	57	iPd	01	10.00	1.5							
CCH	26.60	141	P	54	47.00	0.6		SB8	44.77	319	eP	57	22.00	0.7		EHOR	78.62	52	iPd	01	10.00	0.6							
HBF	29.68	5	P	55	14.00	0.3		DAU	44.78	330	P	57	22.00	0.4		IMA	79.15	337	eP	01	12.10	0.2							
PRM	30.71	2	P	55	22.00	-0.9		CLC	45.30	320	eP	57	25.00	-0.5			2.2s	346.10nm			6.0mb								
JSC	30.95	3	P	55	24.00	-1.0		CBM	45.49	15	iP	57	26.70	0.0		MAL	79.20	53	iPc	01	14.20	1.7							
TKL	32.27	359	P	55	35.70	-0.8					pP	57	35.70	30kmX					iS	11	18.00								
RSCP	32.27	357	ePc	55	35.60	-1.0		ISA	45.78	319	ePc	57	29.94	0.7		TTA	79.29	334	eP	01	12.60	0.0							
			e	55	59.00						epPd	57	34.57	15kmX		GUD	79.70	49	iPd	01	16.40	1.0							
GBTN	32.28	359	P	55	36.00	-0.7					eS	04	21.21			TOL	79.72	50	ePc	01	16.21	0.9							
UYO	32.48	343	iPd	55	38.10	-0.3					esS	04	28.66				1.5s	611.11nm			6.4mb								
SLA	32.76	149	ePd	55	27.20	-13.9X					e	04	34.17						epPd	01	21.09	16kmX							
BLA	33.92	4	P	55	50.30	-0.7		BW06	45.78	333	iP	57	28.80	-0.6					ePP	04	07.75								
	1.5s	78.95nm			5.4mb				1.7s	171.72nm			5.7mb						eS	11	08.95								
NAV	34.00	4	P	55	51.00	-0.6					pP	57	35.10	21kmX					ePS	11	20.00								
ELC	34.32	352	P	55	53.00	-1.3		ABL	45.80	318	P	57	30.00	0.4		ECOG	79.91	53	eP	01	17.70	1.1							
TUL	34.50	342	ePc	55	54.70	-1.2		SYP	46.13	317	eP	57	33.00	0.9		AFC	79.93	53	eP	01	17.80	1.1							
	1.6s	214.70nm			5.8mb			TNP	46.48	323	iP	57	35.00	0.0		BST	80.46	42	P	01	17.64	-1.4							
Z	21s	3.99um			5.1Msz				1.5s	115.91nm			5.7mb			EVIA	80.83	52	iPc	01	22.20	0.8							
			e	56	03.00						pP	57	40.20	17kmX		ENIJ	80.98	53	eP	01	22.40	0.3							
			e	57	21.90			BCH	46.57	318	P	57	36.00	0.4		ECRI	81.07	48	iPd	01	23.80	1.3							
			LR	05	24.50			PDCR	46.64	110	eP	57	34.60	-1.6		DAG	81.19	12	iPd	01	21.60	-0.8							
BIX	34.57	342	e(P)	55	51.70	-4.8X		BONR	47.07	322	P	57	40.00	0.3			1.2s	67.19nm			5.6mb								
CVL	34.87	7	P	55	58.00	-1.1		FRI	47.37	320	ePc	57	40.70	-1.0		Z	19s	5.42um			5.9Msz								
FVM	35.19	350	eP	56	01.00	-0.8		PRI	47.50	318	eP	57	43.70	0.7		N	19s	2.78um											
			pP	56	06.10	17kmX		KVN	47.63	323	P	57	42.00	-2.1		ETOR	81.30	49	iPc	01	24.40	0.6							
CBN	35.23	8	iPc	56	02.50	0.4		LLA	47.96	319	eP	57	45.30	-1.1		BRW	81.67	342	eP	01	25.50	0.6							
	1.3s	152.00nm			5.7mb			PRS	48.08	318	ePc	57	47.30	0.0		EKA	81.77	35	Pc	01	25.20	-0.5							
CCM	35.41	349	ePc	56	03.26	-0.4		SAO	48.37	318	eP	57	50.70	1.1			1.3s	108.70nm			5.8mb								
			epPd	56	08.23	17kmX		CMB	48.42	321	ePc	57	49.75	-0.3		ECHE	82.07	51	iPd	01	29.30	1.6							
			eS	01	37.76						epPd	57	54.47	16kmX		LPF	82.46	42	iPc	01	29.50	0.0							
			esS	01	46.20			LRM	49.46	333	eP	57	58.10	0.0			1.4s	191.70nm			6.0mb								
			eSS	04	00.16			BRK	49.53	319	ePc	57	58.80	0.3		GRR	82.60	42	iPc	01	30.50	0.3							
SCP	37.72	7	ePc	56	22.27	-0.8		ORV	50.02	321	ePc	58	02.60	0.3			1.3s	198.55nm			6.1mb								
			epPd	56	27.07	16kmX		WDC	51.27	322	eP	58	09.90	-1.8		KUK	82.68	84	eP	01	30.00	-1.3							
			e	56	41.97			LBFM	51.33	323	P	58	11.00	-1.5		BTH	82.79	47	P	01	32.50	1.2							
			ePP	57	48.09			FHC	52.30	321	P	58	18.00	-1.5					PS	12	40.00								
ROCH	37.85	163	eP	56	25.00	0.4			2.0s	1000.00nm			6.4mb						e	32	30.00								
PEL	38.11	163	ePd	56	27.00	0.5		SES	52.50	338	ePc	58	20.70	-0.2					e	33	36.00								
CLE	38.12	2	iP	56	26.00	-0.5			1.8s	533.00nm			6.2mb																
ALQ	38.16	329	eP	56	27.50	0.4					pP	58	26.00	18kmX		FLN	82.87	41	iPc	01	32.00	0.4							
	1.5s	175.00nm			5.6mb			SCH	53.16	12	ePc	58	23.90	-1.8			1.2s	157.70nm			6.0mb								
Z	18s	1.89um			4.9Msz				1.6s	306.00nm			6.0mb			Z	21s	2.22um			5.5Msz								
ANMO	38.16	329	iP	56	27.50	0.4		VGB	53.33	328	P	58	27.00	-0.1		LEGH	82.89	85	eP	01	32.00	-0.4							
	1.6s	258.33nm			5.8mb			NEW	53.40	332	ePc	58	26.80	-0.8		MFF	82.99	44	iPc	01	32.80	0.5							
																	1.4s	139.40nm			5.9mb								

05d 14h

SHGH	83.02	84 eP	01	32.50	-0.6			1.7s	58.00nm		5.6mb			1.5s	6.10nm								
LDF	83.10	42 iPc	01	33.10	0.3		Z	24s	2.90um		5.6MszX	LZH	140.31	351 PKP	08	29.00	-8.2X						
	1.4s	200.40nm			6.1mb		N	24s	1.00um				4.0s	0.60nm									
EROO	83.17	49 iPc	01	34.00	0.6		E	24s	2.20um				Z 20s	1.65um			5.8Msz						
LFF	83.54	45 eP	01	35.70	0.6	WTTA	91.03	43 iPc	02	11.30	-0.3		E 20s	1.82um									
	1.6s	174.15nm			6.0mb		1.2s	39.40nm		5.6mb				sPKP	08	39.00							
ANM	83.67	335 eP	01	36.50	1.1	CTI	91.17	44 P	02	06.40	-5.8X			PP	11	30.00							
LPO	83.85	46 eP	01	37.20	0.5	CLL	91.47	39 iPc	02	13.60	0.3	XAN	141.17	344 PKP	08	32.00	-6.6X						
	1.4s	156.85nm			6.0mb		1.7s	64.00nm		5.7mb			N 20s	1.90um									
RJF	84.10	45 eP	01	38.40	0.4		Z 24s	2.00um		5.5MszX				PP	11	41.00							
	1.6s	223.90nm			6.1mb			e	05	49.00		WHN	142.40	335 ePKP	08	36.00	-4.8X						
	Z 22s	1.83um			5.4Msz	SFI	91.53	46 P	02	14.30	0.6	NDI	143.18	29 ePKP	08	38.00	-4.2X						
LSF	84.13	44 eP	01	38.50	0.4	WET	91.65	41 eP	02	15.20	1.0	NWAO	144.73	211 ePKP	08	42.50	-2.2X						
	1.4s	135.05nm			6.0mb		1.6s	153.00nm		6.1mb		OZH	144.81	324 PKPc	08	43.00	-2.1						
CAF	84.48	45 eP	01	40.50	0.5	FVI	91.89	43 P	02	14.10	-1.2	CD2	145.38	349 PKP	08	44.70	-1.3						
	1.6s	205.20nm			6.1mb	BRG	92.12	39 iPc	02	16.60	0.3	KLB	145.49	213 ePKP	08	45.00	-1.1						
TCF	84.61	44 eP	01	40.80	0.3		1.4s	48.00nm		5.7mb		MUN	146.01	211 ePKP	08	46.00	-0.9						
	1.7s	169.10nm			6.0mb			e	06	06.70		GKN	146.86	20 PKP	08	48.20	-0.4						
MAF	84.85	44 iPc	01	42.00	0.3			e	13	00.00		KKN	147.27	19 PKP	08	48.40	-1.0						
BGF	85.05	44 iPc	01	43.00	0.3	ASS	92.20	47 P	02	14.50	-2.4	GUN	147.35	18 PKP	08	49.40	-0.3						
ESEL	85.06	51 eP	01	44.40	1.5	KBA	92.21	43 iPc	02	16.80	-0.3	DMN	147.38	19 PKP	08	49.00	-0.6						
PYM	85.16	45 P	01	44.00	0.6		1.5s	53.80nm		5.7mb		CVP	147.62	311 ePKP	08	54.00	4.2X						
LBL	85.32	45 P	01	45.00	1.0	MNS	92.29	48 P	02	14.60	-2.7	GYA	148.94	342 PKP	08	51.40	-0.5						
AVF	85.40	43 iPc	01	44.20	-0.2	UPP	92.73	30 iP	02	18.30	-0.5	BAG	149.34	310 ePKP	08	52.00	-0.8						
	1.2s	89.25nm			5.9mb	AZI	92.90	48 P	02	19.20	-0.8	DAV	149.37	290 ePKP	09	03.00	10.2X						
SSF	85.51	43 eP	01	44.90	-0.1	CEY	93.13	44 eP	02	22.00	0.9	HKC	149.39	327 ePKP	08	58.00	5.5X						
	1.4s	115.45nm			5.9mb	LJU	93.16	44 eP	02	21.00	-0.2	CGP	149.73	293 iPKPc	08	58.00	4.7X						
PLDF	85.58	44 P	01	45.60	0.1	SPA	93.21	180 iPc	02	22.50	1.3		1.2s	10.00nm									
SMF	85.74	44 iPc	01	45.90	-0.3		1.0s	78.50nm		6.1mb		OCP	149.99	307 ePKP	08	38.00	-15.6X						
	1.3s	119.15nm			5.9mb	KEV	93.92	19 eP	02	23.00	-1.2	PGP	150.71	305 ePKP	08	55.00	0.3						
LOR	85.75	43 eP	01	46.20	0.0	ZST	94.56	41 eP	02	27.80	0.2	SML	151.00	9 PKP	08	54.00	-1.1						
	1.4s	100.20nm			5.8mb			e	06	13.60				PP	12	03.00							
	Z 19s	3.25um			5.7Msz	SOD	94.61	21 iP	02	26.60	-0.9	KMI	151.20	348 ePKPc	08	54.76	-0.8						
LBF	85.83	43 eP	01	46.30	-0.4	MGR	94.73	49 P	02	28.90	0.3		Z 26s	1.60um			5.7MszX						
	1.6s	111.95nm			5.8mb	SRO	95.43	42 eP	02	31.20	-0.4			i	11	47.00							
SNF	86.02	40 iPc	01	47.64	0.2			e	06	21.80				PP	12	39.00							
UCC	86.06	39 Pd+	01	48.80	1.2	BUD	95.96	42 e(P)	02	35.00	0.9	OIZ	154.35	330 PKP	08	55.40	-4.4X						
DOU	86.22	40 P	01	49.00	0.6	NUR	95.97	28 eP	02	33.00	-0.8			SKS	15	57.00							
SSB	86.24	45 P	01	49.49	0.8	KRA	96.03	39 eP	02	35.40	1.1	GBA	154.63	48 PKPc	08	58.30	-1.9						
ENN	87.06	39 iPc	01	51.60	-0.9			e	02	40.80			1.3s	38.70nm									
	1.2s	207.00nm			6.2mb	KAF	96.23	26 eP	02	34.00	-1.0	CHG	157.98	354 ePKP	09	03.90	-0.7						
CDR	87.15	47 ePc	01	53.80	0.7	SPC	96.41	40 eP	02	37.00	0.7	CHTO	157.98	354 ePKPc	09	02.73	-1.8						
VITF	87.16	42 P	01	52.50	-0.6			e	06	16.60				epPKPd	09	07.53							
HAU	87.42	42 eP	01	54.40	0.0			e	06	45.80				ePKPab	09	34.02							
	1.4s	196.05nm			6.2mb	OHR	98.49	48 eP	02	47.20	1.5			eHP'ab	09	35.34							
	Z 19s	1.85um			5.5Msz		1.8s	152.00nm		6.3mb		LOE	158.89	346 ePKP	09	05.00	-0.6						
WIT	87.46	37 eP	01	55.00	0.6	SKO	98.78	47 iP	02	48.40	1.5		S.D. = 1.0	on 281 of 313 obs.									
WTS	87.57	38 iPc	01	54.40	-0.5		Z 18s	0.67um		5.2Msz		----------											
	1.1s	190.00nm			6.3mb		E 19s	0.67um					MAR 05, 1991 13h 57m 28.43± 0.89s										
LRG	87.59	47 eP	01	55.90	0.7			i	15	36.00			12.855 N ± 5.0km 143.323 E ± 9.2km										
	1.3s	79.40nm			5.8mb			i	18	45.00			DEPTH = 120.9 ± 10.1 km										
	Z 22s	1.25um			5.3Msz			i	21	02.00			5.1mb (9 obs.)										
LMR	87.70	47 eP	01	56.10	0.3			LR	47	04.00			SOUTH OF MARIANA ISLANDS									(210)	
	1.5s	141.00nm			6.0mb	MLR	101.08	43 ePdiff	03	07.50	10.1X												
BSF	87.72	42 P	01	56.00	0.1			e	11	10.90		PJG	1.67	64 iP	57	58.30	0.0						
BNI	87.75	45 P	01	58.00	1.8	BCAO	101.57	85 iPdiff	03	02.20	2.1X	GUA	1.69	66 iPc	57	58.30	-0.3						
LOMF	87.76	43 P	01	54.50	-1.6		1.0s	15.00nm		5.5mb				eS	58	19.80							
LPL	87.77	45 eP	01	57.20	0.8			i	07	07.00		WKYJ	22.40	343 eP	02	18.70	1.1						
	1.4s	58.80nm			5.7mb	MDJ	124.01	332 ePKP	08	03.00	-2.8X	TKSJ	22.66	340 eP	02	20.90	0.8						
LPG	87.79	45 eP	01	57.40	0.9	SNY	128.91	334 ePKP	08	14.20	-1.1	IIDJ	23.05	349 P	02	24.50	0.6						
	1.5s	109.70nm			5.9mb		Z 23s	1.50um		5.6MszX		CHJJ	23.42	351 P	02	27.50	0.0						
FRF	87.79	47 eP	01	56.80	0.6	STK	129.10	231 ePKP	08	31.80	15.8X	KAKJ	23.42	354 P	02	27.50	0.1						
	1.2s	77.35nm			5.9mb		1.9s	4.20nm				TSRJ	23.54	345 P	02	28.10	-0.5						
BNS	87.84	39 iPc	01	57.00	0.7	WMO	132.47	9 PKP	08	22.00	-0.2	SHNJ	23.91	334 eP	02	32.40	0.2						
	1.7s	304.00nm			6.3mb		2.5s	100.00nm				YONJ	23.96	340 eP	02	33.20	0.5						
KBS	87.87	11 eP	01	57.00	1.0		Z 22s	2.70um		5.9Msz		MAT	24.03	350 iPd	02	32.30	-1.1						
EMS	87.89	44 ePd	01	57.80	0.9			PP	10	44.00		MTMJ	24.14	349 P	02	34.30	-0.3						
CDF	88.02	42 eP	01	57.40	0.1			PKS	11	50.00		YAMJ	25.38	354 P	02	45.70	-0.3						
	1.5s	109.70nm			6.0mb	HHC	134.06	344 ePKP	08	24.00	-1.3	OFUJ	26.16	357 eP	02	52.70	-0.4						
ABH	88.13	40 eP	01	58.22	0.5		Z 24s	0.70um		5.3MszX		SSE	27.31	315 P	03	04.80	1.2						
DIX	88.22	44 ePd	02	00.00	1.4		E 17s	0.90um					1.0s	12.00nm			4.5mb						
GWF	88.22	41 P	01	57.50	-0.7	BTO	134.70	346 ePKP	08	26.00	-0.5	WB2	33.77	195 iPd	04	00.20	-0.5						
SBF	88.35	46 eP	01	59.30	0.3	QUE	136.29	38 ePKP	08	30.70	0.7		0.5s	29.30nm			5.3mb						
MMK	88.61	44 ePd	02	02.20	1.8			e	12	03.40				iPcP	06	37.30							
SLE	88.87	42 ePd	02	01.80	0.5	TIA	136.35	336 ePKP	08	29.00	-0.7			eS	08	29.00							
LLS	89.27	43 ePd	02	05.20	1.7	GTA	137.47	356 ePKP	08	29.00	-2.9X	WRA	33.77	195 iPd	04	00.20	-0.5						
NB2	89.41	29 P	02	03.20	-0.4		4.0s	500.00nm					0.5s	29.30nm			5.3mb						
	1.6s	79.30nm			5.7mb		Z 30s	2.20um		5.7MszX				iPcP	06	37.30							
SAX	89.48	43 ePd	02	05.80	1.2		N 20s	2.20um						eS	08	29.00							
PGF	89.57	48 eP	02	04.90	0.0			PP	11	13.00		BJI	36.11	324 eP	04	20.50	0.2						
	1.6s	87.05nm			5.8mb	SSE	138.63	327 PKPc	08	30.10	-3.9X		1.0s	35.00nm			5.2mb						
VDL	89.62	44 ePd	02	06.20	1.0		Z 20s	1.40um		5.7Msz			Z 40s	1.57um			4.5MszX						
OSS	90.07	43 ePd	02	07.60	0.4		N 14s	0.70um						e	08	21.50							
GRF	90.52	40 ePc	02	09.80	0.8	ASPA	138.69	237 iPKPc	08	31.10	-3.3X			e	11	52.00							
	1.6s	76.00nm			5.7mb		1.4s	14.20nm				ASPA	37.45	194 iPc	04	30.70	-1.1						
	Z 24s	2.70um			5.6MszX	NJ2	139.06	331 PKPd	08	34.00	-0.8		0.4s	20.50nm			5.3mb						
MOX	90.68	39 eP	02	10.00	0.3	WRA	139.67	243 PKP	08	29.00	-7.3X			iPcP	06	48.20							

```
DZM     41.46 147 iPd   05 06.90    1.8
WARB    42.06 203 iPd   05 11.10    1.2
        0.4s     10.00nm          4.9mb
LZH     42.32 310 iPd   05 13.00    0.9
        1.4s     69.00nm          5.2mb
                  i     06 15.00
SNG     42.39 267 eP    05 14.70    2.0
                  e     09 14.50
IPM     42.56 263 ePd   05 15.40    1.3
        0.7s     25.40nm          5.1mb
CHTO    43.02 284 eP    05 17.60   -0.2
        0.8s      3.48nm          4.2mb
STK     44.51 182 iPd   05 41.70   12.2X
        0.4s      8.20nm
BAL     50.23 210 eP    06 13.70   -0.4
KLB     50.54 208 eP    06 16.00   -0.5
MUN     51.59 210 eP    06 24.00   -0.5
RKG     52.96 207 eP    06 37.70    3.2X
GUN     55.43 295 P     06 53.00   -0.2
KKN     55.96 295 P     06 56.20   -0.7
DMN     56.10 295 P     06 57.20   -0.8
GKN     56.53 295 P     07 00.20   -0.7
GBA     63.96 279 P     07 50.80   -0.5
                  e     09 00.00
KOD     64.43 275 eP    07 54.60   -0.2
POO     66.78 285 eP    08 06.50   -2.9
INK     75.62  22 eP    09 01.00   -0.3
YKA     84.20  27 eP    09 46.00   -1.1
        0.4s      0.60nm          3.8mb X
EBR    116.48 329 ePdiff12 04.00 -10.4X
BCAO   122.53 284 iPKPd 16 13.50    1.4
        0.9s      9.00nm
KIC    142.97 299 PKP   16 46.70   -3.8X
LIC    143.28 299 PKP   16 47.80   -3.2X
ZOBO   149.39 100 PKP   17 03.00    1.4
LPB    149.41 101 PKP   17 06.00    4.6X
CNCB   149.50 101 PKP   17 04.00    2.2X
SIV    156.17 100 ePKP  17 10.00   -0.6
     S.D. = 1.0  on  40 of  47 obs.
-------------------------------------
&  MAR  05, 1991  13h 59m 26.99s
   60.955 N          150.934 W
   DEPTH =   8.7km
 KENAI PENINSULA, ALASKA          ( 14)
      <AEIC>.

NKA     0.26 215 iPd   59 34.80    2.4
SUA     0.52  10 iPd   59 37.51    0.0
SLKM    0.57 142 iPc   59 37.84   -0.6
CRP     0.67 298 iPd   59 39.97   -0.6
                 iS    59 49.78
CKL     0.72 290 iPd   59 40.52   -0.9
PMS     0.73  66 iPc   59 40.67   -0.8
                 iS    59 50.76
NCG     0.74 308 iPd   59 40.95   -0.8
BGL     0.77 294 iPd   59 41.43   -0.8
RDT     0.82 243 iPd   59 42.09   -0.9
                 eS    59 57.33
PWA     0.86  36 ePd   59 43.64   -0.1
NNL     0.93 191 iPc   59 45.31    0.4
REF     0.99 242 iPd   59 45.03   -0.9
                 eS    59 58.50
RDN     1.00 245 iPd   59 44.87   -1.3
                 eS    59 58.25
RSO     1.02 242 iPd   59 45.60   -1.0
                 iS    59 59.11
RS2     1.02 242 iPd   59 45.64   -1.0
                 iS    59 59.01
RED     1.05 240 iPd   59 46.00   -1.0
                 eS    59 59.98
NCT     1.06 249 iPd   59 45.97   -1.1
                 eS    59 59.84
SKT     1.07 345 iPd   59 46.60   -0.6
                 iS    00 01.02
PLRM    1.08  53 ePd   59 46.10   -1.3
SEW     1.13 139 ePc   59 47.27   -0.9
                 S     00 02.42
BRLK    1.20 179 ePc   59 48.17   -1.2
                 eS    00 03.66
GHO     1.27  49 ePd   59 49.52   -1.2
                 eS    00 06.19
KNK     1.29  68 iPc   59 50.60   -0.4
HOM     1.35 195 eP    59 50.88   -1.0
                 eS    00 09.20
CNPM    1.44 186 iPc   59 52.04   -1.3
                 eS    00 10.89
KNIM    1.69 110 iPc   59 56.22   -0.6
GLI     1.88  91 iPc   59 59.23   -0.3
                 eS    00 24.05
MTU     1.89 119 eP    59 59.63   -0.2
PDB     2.00 236 ePd   00 00.89   -0.4
AUE     2.01 218 eP    00 01.48    0.0
AUH     2.03 219 eP    00 02.62    0.8
AUI     2.05 219 eP    00 02.39    0.4
                 eS    00 28.56
VZW     2.14  85 ePc   00 03.23   -0.1
VLZ     2.25  83 ePc   00 05.05    0.2
SVW     2.29 276 ePd   00 04.55   -1.0
                 eS    00 35.65
CDD     2.45 215 ePd   00 07.55   -0.2
KLU     2.48  75 iPc   00 08.47    0.1
TOA     2.56  61 ePc   00 10.69    1.3
RND     2.65  21 ePd   00 11.91    1.2
TZL     2.86  65 eP    00 14.25    0.6
SDG     3.01  56 eP    00 16.42    0.7
PAX     3.28  50 eP    00 21.04    1.4
BWN     3.30  11 eP    00 21.03    1.2
       43 obs. associated
-------------------------------------
•  MAR  05, 1991  14h 51m 25.41± 0.94s
    7.439 S ±10.8km  128.200 E ±14.0km
    DEPTH = 139.7 ± 10.0 km
    4.9mb (  6 obs.)
 BANDA SEA                        (280)

KUPT    5.28 239 ePd   52 43.30    0.0
                 eS    53 37.00
MTN     6.10 152 iPd   52 55.50    1.1
KNA     8.28 176 eP    53 24.00    0.1
        0.3s     21.00nm          5.3mb
                 eS    54 50.00
WRA    13.78 155 iPd   54 34.00   -2.2
        0.4s     12.50nm          4.6mb
                 iS    56 58.90
WB2    13.79 155 iPd   54 34.00   -2.2
        0.4s     12.50nm          4.6mb
                 iS    56 58.90
ASPA   17.04 162 eP    55 17.00    0.2
        0.5s     35.40nm          4.9mb
                 eS    58 12.20
OIS    17.09 141 eP    55 20.00    2.6
                 eS    58 16.00
WARB   18.70 184 eP    55 36.30    0.5
                 eS    58 58.00
NANU   19.36 218 eP    55 43.00    0.4
CHTO   38.89 312 eP    58 38.90   -0.2
        0.9s      1.28nm          3.7mb X
GUN    53.91 312 P     00 37.60    0.4
        0.5s      9.00nm          4.9mb
KKN    54.28 312 P     00 39.80    0.0
GKN    54.88 312 P     00 44.00    0.0
        0.5s     11.00nm          5.0mb
YKA   108.93  26 ePKP  09 38.50   -0.9
        0.5s      0.20nm
     S.D. = 1.4  on  14 of  14 obs.
-------------------------------------
•  MAR  05, 1991  16h 07m 22.15± 1.41s
   38.067 N ±13.4km   22.160 E ± 9.1km
   DEPTH =  10.0km  (geophysicist)
 GREECE                           (364)

AGG     0.96   8 iPd   07 39.00   -1.5
ATH     1.23  94 ePb   07 45.00   -0.1
VLS     1.24 276 ePb   07 45.00   -0.3
                 eSb   08 03.00
VLI     1.48 155 ePg   07 56.00    7.2X
LIT     2.05   7 iPc   07 58.00    0.9
KZN     2.26 352 ePg   08 01.00    0.8
OHR     3.22 341 e(Pn) 08 19.80    6.1X
     S.D. = 1.4  on   5 of   7 obs.
-------------------------------------
•  MAR  05, 1991  16h 12m 11.25± 1.07s
   50.792 N ±14.0km  129.212 W ±15.0km
   DEPTH =  10.0km  (geophysicist)
   4.0mb (  5 obs.)
 VANCOUVER ISLAND REGION          ( 25)

MCW     4.65 115 eP    13 22.80   -0.3
RMW     5.89 122 eP    13 40.00   -0.8
LON     6.35 127 eP    13 45.30   -1.8
PNT     6.35 100 P     13 48.00    0.8
        1.1s     4.20nm          4.2mb
SES    11.56  85 eP    15 01.00    1.8
KVN    14.11 142 eP    15 33.50    0.1
YKA    14.17  29 eP    15 31.80   -2.0
        0.8s     2.40nm          4.0mb
PMR    15.41 322 eP    15 51.80    1.8
        0.7s     5.81nm          4.0mb
BW06   15.64 113 eP    15 55.00    1.6
        1.0s     7.08nm          3.9mb
FBA    17.15 333 eP    16 13.00    0.9
MSU    17.20 129 eP    16 14.50    1.2
IMA    19.75 330 eP    16 42.00   -1.9
        1.4s     9.80nm          3.9mb
ANMO   22.86 125 eP    17 14.50   -1.4
     S.D. = 1.6  on  13 of  13 obs.
-------------------------------------
&  MAR  05, 1991  16h 31m 36.90s
   40.713 N          123.753 W
   DEPTH =   6.0km
 NORTHERN CALIFORNIA              ( 36)
      <BRK>. ML 3.4 (BRK).

FHC     0.20 297 iPd   31 41.08    0.1
FOX     0.26 224 iPd   31 42.47    0.2
EKR     0.29 267 iPd   31 42.94    0.1
                 iS    31 46.25
WDC     0.93  98 iPc   31 54.46   -0.6
                 iS    32 07.76
LTCM    1.34 112 eP    32 02.00    0.0
LBFM    1.54  65 eP    32 04.70   -0.5
MIN     1.68 102 iPc   32 06.70   -0.4
ORV     2.08 123 eP    32 13.30    0.6
CMB     3.74 135 e(P)  32 36.00   -0.4
ARN     3.78 152 eP    32 37.50    0.5
       10 obs. associated
-------------------------------------
•  MAR  05, 1991  17h 38m 12.06± 1.64s
   38.614 N ± 8.5km   26.675 E ±15.7km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                       (365)

IZM     0.51 115 iPg   38 21.80   -0.6
                 eSg   38 27.80
EZN     1.24 347 iPn   38 35.00   -0.1
CIN     1.51 132 eP    38 38.00   -1.1
DST     1.81  56 iPn   38 42.30   -1.3
YER     1.95 139 ePn   38 46.50    0.9
EDC     1.96  28 iPn   38 46.00    0.3
BNT     1.99  29 iPn   38 45.40   -0.7
KCT     2.09  38 ePn   38 47.40   -0.2
KHL     2.25  97 ePn   38 51.00    0.9
IZI     2.77  51 ePn   38 59.00    1.7
     S.D. = 1.1  on  10 of  10 obs.
-------------------------------------
   MAR  05, 1991  18h 09m 33.57± 0.17s
    0.350 S ± 3.2km   99.324 E ± 4.3km
   DEPTH =  63.3km  ( 14 depth phases)
   5.2mb ( 41 obs.)
 SOUTHERN SUMATERA                (274)

KLM     4.14  34 ePc   10 39.50    3.7X
        0.5s  1007.70nm
                 e     12 01.00
KGM     4.63  60 iPc   10 47.20    4.5X
        0.6s  3765.10nm
                 i     10 53.50
IPM     5.18  19 ePc   10 53.10    2.6
        0.6s   353.50nm          5.8mb
                 e     11 17.70
                 e     11 38.50
                 e     12 03.60
                 e     13 02.90
SNG     7.59  10 eP    11 23.40   -0.5
        0.9s   102.52nm          5.6mb
                 eS    13 36.20
NNT    12.86   2 eP    12 36.00    0.6
NST    15.94   3 eP    13 16.00    0.6
BDT    17.49 359 eP    13 30.20   -4.5X
        1.0s     9.50nm          3.9mb X
LOE    17.80   8 eP    13 37.00   -1.7
KKM    18.02  69 ePd   13 44.70    3.3X
        0.7s    84.50nm          5.0mb
CHG    19.05 359 eP    13 52.40   -1.3
        1.0s    30.75nm          4.5mb
CHTO   19.05 359 iP    13 52.00   -1.7
        0.9s   106.48nm          5.1mb
                 eS    17 21.00
TSM    19.28  76 ePc   13 58.00    1.9
MKS    20.69 104 ePc   14 14.50    3.6X
OIZ    21.85  28 eP    14 24.40    1.8
```

KOD	24.15	296	eP	14	47.30	1.9	THZ	77.56	133	P	21	24	70	0	1	SCH	124	53	350	ePKP	28	27.00	-0.2
KMI	25	54	7 Pd	14	59.00	0.6	KHZ	78.14	133	P	21	27	90	0	3	SOB1	139	27	255	(PKP)	28	56.00	-0.4
MNI	25.58	86	e(P)	15	03.00	4.4X		0.6s	59	00nm			5	7mb		PPD	143	74	230	ePKP	29	01.20	-2.8X
GBA	25.74	303	P	15	01.00	0.9	VRI	78.19	317	ePd	21	37.50		9.6X		LNV	144.78	193		ePKP	29	04.00	-1.4
			e	19	48.00		TCW	78.47	132	P	21	29.10		-0.4		TACH	144	96	194	ePKP	29	04.50	-1.3
MAP	26.72	66	eP	15	10.00	0.9	MRW	78.79	132	P	21	30.70		-0.5		PEL	145.38	195		ePKPd	29	06.00	-0.6
BAG	26.78	51	eP	15	10.00	0.2	KIW	78.89	132	P	21	31.80		0 0		ROCH	145.63	194		ePKP	29	07.50	0.3
NANU	27.13	146	eP	15	14.50	1.7	WDW	79.01	132	P	21	32	00	-0.5		SIV	154	74	229	PKP	29	20.60	-0.4
	0.4s		8.00nm			4.7mb	CAW	79.04	132	P	21	32	30	-0.4		CNCB	158	85	216	ePKP	29	14.00	-12.9X
CYA	27.58	14	P	15	16.60	-0.3	MNG	79.28	131	eP	21	33.50		-0.5		LPB	159.14	216		(PKP)	29	16.00	-11.0X
MBL	28.79	137	iPd	15	28.00	0.2		0.5s	22	00nm				5.3mb		ZOBO	159.36	216		PKP	29	28.00	0.5
AAI	29.04	97	eP	15	29.00	-1.1	MTW	79.38	132	P	21	34.60		0.1			S.D	=	0.9	on	111	of	129 obs.
LSA	30.88	346	iP	15	47.80	1.0	BLW	79.39	132	P	21	34.80		0.3									
GUN	30.92	336	P	15	47.40	0.3	PGZ	79.87	131	P	21	37.30		0.2		•	MAR	05,	1991	18h	58m	26.04±	1.80s
	0.4s		19.00nm			5.2mb		0.5s	77	00nm				5.9mb			5.494	S	±13.4km		152.006	E	±13.8km
DMN	30.97	335	P	15	49.60	2.2	VAY	80.29	312	eP	21	38.40		-0.9			DEPTH =		49.6	±	15.1	km	
KKN	31.06	335	P	15	48.60	0.5				i	21	55.30		61km			4.9mb	(	6	obs.)			
	0.4s		10.00nm			4.9mb	BCAO	80.84	275	iPd	21	43.50		0.7			NEW BRITAIN REGION						(192)
CD2	31.37	7	eP	15	49.30	-1.3		0.3s	25	00nm				5.6mb									
GKN	31.52	335	P	15	52.40	0.3				i	22	01.10		64km		RAB	1.30	7	iPd	58	48.20	0.0	
	0.4s		16.00nm			5.2mb	SKO	81.23	312	eP	21	43.00		-1.3					iS	59	00.00		
MEKA	32.00	146	eP	15	56.60	0.5	KAF	82.42	333	iP	21	50.30		0.3		DZM	21.60	141	iPc	03	13.90	0.0	
KAN	35.37	14	P	16	23.40	-1.8		0.6s	11	80nm				5.0mb		CHTO	57.58	296	eP	08	13.50	0.0	
MAB	35.64	152	eP	16	28.20	0.8	NUR	82.79	331	eP	21	52.00		0.1			1.2s		3.13nm			4.3mb	
	0.4s		11.00nm			5.1mb		0.7s	17	40nm				5.1mb		GUN	71.80	302	P	09	46.40	0.1	
SOI	35.79	326	eP	16	28.00	-0.8				i	22	09.30		62km			0.6s		15.00nm			5.1mb	
WZH	36.49	6	eP	16	34.00	-0.8	KRA	83.45	320	eP	21	55.00		-0.5		KKN	72.28	301	P	09	49.00	0.1	
	1.4s		110.00nm			5.6mb				e	22	12.80		64km			0.6s		9.00nm			4.9mb	
	Z 18s		0.24um			4.0Msz	SOD	83.71	338	iP	21	55.30		-1.3		DMN	72.38	301	P	09	49.60	0.0	
			pP	16	50.00	63km				i	22	14.30		69km			0.8s		19.00nm			5.1mb	
NWAO	36.53	154	eP	16	36.00	1.1	SRO	84.21	318	eP	22	16.00		16.6X		GKN	72.89	301	P	09	52.20	-0.2	
	0.5s		15.00nm			5.2mb	KEV	84.26	341	iP	22	16.80		17.5X			0.6s		13.00nm			5.0mb	
COOL	36.75	148	iPd	16	37.30	0.5		1.0s	24	00nm						INK	89.38	21	eP	11	18.00	-0.3	
WARB	36.78	136	eP	16	37.20	0.1	ZST	85.06	318	eP	22	03.20		-0.5		MBC	94.97	14	eP	11	44.50	0.5	
	0.4s		11.00nm			5.1mb				e	22	20.80		63km		YKA	96.40	28	eP	11	50.50	-0.2	
RKG	37.42	155	iPd	16	47.40	5.1X	VBY	86.08	315	e(P)	22	09.50		0.7			1.0s		1.90nm			4.6mb	
SSE	37.53	32	Pc	16	44.00	0.7				e	22	27.10		63km			S.D.	=	0.3	on	10	of	10 obs.
	0.5s		8.00nm			4.9mb	UPP	86.12	330	iP	22	08.70		0.1									
	Z 20s		0.50um			4.3Msz				i	22	26.40		63km			MAR	05,	1991	19h	02m	38.60±	0.43s
GTA	39.57	1	iPc	17	01.00	0.6	LJU	86.62	316	e(P)	22	11.80		0.3			44.765	N	± 3.5km		7.234	E	± 4.5km
	1.0s		70.00nm			5.5mb	VOY	87.07	316	eP	22	13.60		-0.2			DEPTH =		10.0km		(geophysicist)		
TIY	39.76	16	eP	17	02.20	0.2	BRG	87.34	321	iP	22	15.40		0.6			NORTHERN ITALY						(545)
	Z 20s		0.38um			4.2Msz		1.2s	22	00nm				5.2mb					ML 2.3 (GEN).				
ASPA	40.77	127	iPd	17	09.90	-0.5				i	22	32.60		61km									
	0.Bs		71.10nm			5.5mb	CLL	87.96	321	iP	22	17.90		0.1		BHB	0.08	15	P	02	41.84	0.7	
			iPcP	19	11.00			0.9s	9	00nm				4.9mb					S	02	43 57		
			iPcS	22	59.10					ipP	22	35.80		64km		PZZ	0.28	200	P	02	45.35	0.9	
			iS	23	11.20		HFS	88.11	330	eP	22	18.20		-0.1					S	02	49.34		
FORR	40.81	141	iPd	17	11.20	0.7		1.0s	30	50nm				5.4mb		RRL	0.36	296	P	02	45.86	-0.1	
BTO	41.90	12	eP	17	20.00	0.5	MOX	88.81	320	eP	22	23.00		1.1					S	02	50.07		
HHC	42.49	14	eP	17	25.60	1.2				e	22	40.00		60km		RSP	0.39	2	P	02	46.48	-0.1	
BJI	43.04	19	eP	17	29.00	0.3	GRF	89.03	320	eP	22	24.10		1.1					S	02	50.96		
	1.0s		18.00nm			4.8mb		1.5s	52	00nm				5.6mb		FOUF	0.40	234	iPgc	02	47.30	0.5	
QUE	43.26	317	eP	17	30.70	-0.2				e	22	41.10		60km					e(Sg)	02	49.25		
QIS	44.19	120	iPd	17	37.00	-1.4	NB2	89.38	331	P	22	40.00		15.6X		BNI	0.49	306	P	02	48.20	-0.4	
WMQ	45.19	348	P	17	47.60	1.5		1.1s	6	70nm									eSg	02	53.00		
			eS	24	23.00		SPA	89.65	180	iPd	22	26.40		0.7		STV	0.52	173	P	02	49.15	-0.1	
SNY	47.36	25	eP	18	02.20	-0.9		0.8s	20	42nm				5.5mb					S	02	56.27		
CN2	49.77	25	Pc	18	20.40	-1.3	SBF	91.61	314	eP	22	35.20		0.1		ENR	0.55	166	P	02	49.46	-0.5	
ADE	50.34	137	ePd	18	27.00	0.7		0.9s	32	75nm				5.7mb					S	02	57.07		
	1.0s		320.00nm			6.3mb X	CDF	91.62	318	eP	22	34.90		-0.2		ROB	0.65	136	P	02	51.77	0.1	
QLP	50.44	125	iPd	18	25.80	-1.3		0.7s	4	40nm				5.0mb					S	03	00.42		
STK	50.75	132	iPd	18	41.60	12.2X	BSF	91.96	318	eP	22	36.30		-0.4		LSD	0.69	355	P	02	52.02	-0.5	
	0.8s		31.70nm					0.7s	4	40nm				5.0mb					S	03	00.77		
			eS	25	49.60		LPG	92.06	315	eP	22	37.60		0.2		FIN	0.89	128	P	02	56.15	0.4	
MAT	51.44	40	(P)	18	34.00	-0.6		0.9s	13	90nm				5.4mb		PCP	0.96	103	P	02	57.65	0.7	
	0.8s		5.22nm			4.6mb	LPL	92.07	315	iPd	22	37.60		0.2					S	03	10.11		
MDJ	52.22	27	eP	18	39.00	-1.3		0.9s	14	75nm				5.4mb		IMI	0.98	151	P	02	55.46	-1.7	
YAMJ	53.58	40	P	18	49.70	-0.7	FRF	92.18	313	eP	22	38.10		0.4			S.D.	=	0.8	on	13	of	13 obs.
CMS	53.76	130	eP	18	51.00	-0.9		0.9s	9	85nm				5.2mb									
BFD	54.15	138	iPd	18	55.00	0.4	HAU	92.26	318	eP	22	37.80		-0.1			MAR	05,	1991	19h	16m	15.93±	1.38s
RMQ	54.16	123	iPd	18	54.00	-0.9		0.7s	8	80nm				5.3mb			67.157	N	±13.5km		156.679	W	± 5.6km
OFUJ	55.15	40	P	19	00.90	-1.0	LBF	93.91	317	eP	22	45.80		0.2			DEPTH =		10.0km		(geophysicist)		
TOO	56.36	136	iPc	19	12.20	1.4	LOR	93.97	317	iPd	22	46.00		0.1			ALASKA						(676)
	0.8s		28.00nm			5.4mb		0.6s	4	95nm				5.1mb					ML 3.4 (PMR).				
BRS	57.84	122	iPc	19	21.00	-0.4		Z 23s		0.55um				5.0MszX									
			i	19	25.50	15kmX	AVF	94.35	317	eP	22	47.70		0.1		IMA	1.62	131	iPc	16	45.00	0.2	
			i	19	45.00			0.8s	5	35nm				5.0mb		NEA	4.06	126	eP	17	19.19	-0.1	
COO	58.18	126	iPc	19	25.00	1.3	DAG	96.57	348	eP	23	11.00		13.8X		MDM	4.09	119	eP	17	19.80	0.0	
	0.6s		21.00nm			5.4mb		0.7s	6	85nm						RDS	4.20	120	eP	17	21.49	0.1	
TAU	60.28	141	eP	19	38.00	0.1	EKA	97.38	326	Pd	23	19.10		17.9X		BWN	4.23	132	eP	17	22.14	0.3	
PRNI	68.19	303	iPc	20	29.50	-0.3		2.1s	68	60nm						TTA	4 25	176	eP	17	22.70	0.4	
DZM	68.72	113	iPc	20	33.20	-0.1	INK	103.31	18	ePdiff	23	44.00		16.6X		FBA	4.27	118	eP	17	22.90	0.4	
BUL	71.79	249	iPd	20	51.60	-0.4	YKA	112.99	16	ePKP	28	03.40		-1.4		GLM	4.37	116	eP	17	23.84	0.0	
			ipP	21	10.90	72km		0.5s	0	50nm						ANM	4.42	238	e(P)	17	24.40	-0.1	
SLR	72.80	243	iPd	20	55.50	-2.4	FFC	123.05	15	iPKPd	28	23	70	-0.6		CCB	4.42	121	eP	17	24.25	-0.3	
	1.5s		55.56nm			5.3mb		0.7s	13	00nm						WRH	4.44	123	iP	17	24.63	-0.2	

HDA	4.86	120	iP	17 30.67	-0.2
SKT	5.65	154	eP	17 41.76	-0.2
SVW	6.09	175	eP	17 48.40	0.2
BGL	6.20	160	eP	17 49.16	-0.7
PMR	6.47	146	e(P)	17 56.20	2.7X

S.D. = 0.3 on 15 of 16 obs.

MAR 05, 1991 20h 01m 45.21± 1.08s
2.639 N ± 3.6km 125.755 E ± 7.6km
DEPTH = 97.6 ± 10.8 km
5.2mb (21 obs.)
TALAUD ISLANDS (263)

CGP	5.87	350	eP	03 13.00	1.7
			eS	04 39.50	
MAP	7.83	347	eP	03 38.00	-0.3
MKS	10.02	219	e(P)	04 12.70	4.8X
KUPT	12.89	190	eP	04 47.50	1.6
MTN	16.28	161	iPc	05 27.90	-1.6
	0.4s	275.00nm		5.8mb	
KNA	18.51	171	eP	05 55.50	-1.3
	0.7s	357.00nm		5.8mb	
WRA	23.97	160	eP	06 50.80	-1.0
	0.5s	209.10nm		5.8mb	
			iS	11 03.50	
WB2	23.98	160	eP	06 50.80	-1.1
	0.5s	209.10nm		5.8mb	
			iS	11 03.50	
QIS	26.76	150	iPd	07 17.00	-0.7
ASPA	27.32	164	iPd	07 22.30	-0.6
	0.5s	33.60nm		5.2mb	
			eS	12 07.70	
WARB	28.67	178	eP	07 36.00	1.1
	0.4s	22.00nm		5.1mb	
MEKA	29.91	193	iPd	07 46.00	0.0
CHG	30.78	303	eP	07 55.10	1.3
CHTO	30.78	303	iP	07 54.30	0.5
	0.7s	2.86nm		4.1mb	X
			pP	08 19.90	116kmX
FORR	33.38	176	eP	08 15.90	-0.3
TSRJ	34.08	15	P	08 21.80	-0.5
BAL	34.17	194	eP	08 23.00	-0.1
KLB	34.88	192	eP	08 29.00	-0.2
CD2	34.97	326	Pd	08 29.70	-0.3
XAN	34.97	335	P	08 28.60	-1.4
CHJJ	35.43	19	P	08 31.90	-1.9
MTMJ	35.56	17	P	08 34.20	-0.8
MUN	35.60	194	eP	08 35.00	-0.3
MAT	35.64	17	iPc	08 44.00	8.4X
	0.7s	20.55nm		5.2mb	
NIIJ	36.53	18	P	08 41.50	-1.5
TIY	36.99	342	eP	08 45.60	-1.3
STK	37.48	158	eP	09 03.90	12.8X
	0.6s	18.10nm			
			ipP	09 35.70	142kmX
			iPP	10 27.30	
YAMJ	37.71	19	P	08 53.30	0.4
BJI	38.23	348	eP	08 56.50	-0.7
	0.8s	15.00nm		5.0mb	
LZH	38.96	331	eP	09 03.50	-0.2
	1.5s	42.00nm		5.1mb	
			sP	09 32.50	
OFUJ	39.06	20	P	09 04.50	0.3
SNY	39.06	357	iPc	09 04.10	0.0
	1.0s	100.00nm		5.6mb	
ADE	39.33	163	iPd	09 07.40	0.8
	0.7s	82.19nm		5.7mb	
CN2	40.99	360	Pc	09 19.60	-0.3
COO	41.38	145	iPc	09 24.70	1.2
MRRJ	41.92	17	eP	09 28.00	0.4
MDJ	41.94	4	Pc	09 28.00	0.2
	0.8s	40.00nm		5.3mb	
LSA	42.44	313	P	09 34.00	1.3
BFD	42.58	160	iPc	09 34.00	0.9
			e	11 10.00	
GTA	43.54	331	iPc	09 40.60	-0.5
	0.8s	10.00nm		4.7mb	
			PcP	11 27.80	
ASAJ	43.93	18	eP	09 44.10	0.1
TOO	44.00	157	eP	09 46.00	1.3
GUN	45.59	307	P	09 58.00	0.1
KKN	46.02	307	P	10 01.00	-0.1
	0.8s	36.00nm		5.3mb	
DMN	46.08	307	P	10 01.40	-0.2
	0.8s	38.00nm		5.3mb	
GKN	46.62	307	P	10 05.40	-0.4
	0.8s	35.00nm		5.3mb	
GBA	48.96	286	P	10 23.00	-0.9
WMQ	53.07	326	P	10 54.00	-0.6
TTA	82.31	27	eP	13 58.80	1.7
BRW	83.51	18	e(P)	14 05.20	2.2
IMA	83.77	24	iPc	14 06.70	2.0
	0.6s	11.70nm		5.0mb	
PMR	85.36	29	eP	14 13.20	0.7
SOD	91.10	338	eP	14 41.00	1.3
INK	91.53	21	eP	14 41.00	-0.7
KAF	92.11	332	eP	14 44.00	-0.4
NUR	93.18	331	eP	14 49.00	-0.4
MBC	93.22	13	eP	14 50.00	0.6
	1.0s	4.00nm		4.7mb	
APO	98.27	332	eP	15 11.50	-1.1
	0.7s	1.20nm		4.6mb	
YKA	100.89	24	ePdiff	15 24.20	-0.1X
	0.8s	0.70nm		4.3mb	
BRG	101.52	323	i(Pdif	15 28.00	0.6X
	0.9s	10.00nm		5.5mb	

S.D. = 1.0 on 55 of 60 obs.

MAR 05, 1991 20h 11m 51.88± 0.99s
31.740 S ± 6.0km 71.954 W ±11.6km
DEPTH = 66.4 ± 9.2 km
4.9mb (1 obs.)
NEAR COAST OF CENTRAL CHILE (135)

ROCH	1.47	147	iPd	12 16.50	-0.4
			i	12 35.70	
JACH	1.49	130	iP	12 16.10	-1.0
			i	12 35.00	
LCCH	1.76	169	iPc	12 20.70	0.0
			iS	12 47.00	
PEL	1.76	143	iPc	12 21.10	0.3
			iS	12 45.50	
SAN	2.03	148	iP	12 24.70	0.2
			i	12 50.50	
TACH	2.09	156	iPc	12 25.80	0.5
			iS	12 55.00	
PCH	2.23	147	iPc	12 27.50	0.1
			iS	12 58.00	
LNV	2.26	168	iPc	12 27.20	-0.4
			iS	13 00.00	
RTCB	2.70	85	ePc	12 34.70	0.7
ZON	2.80	87	iPd	12 35.30	0.0
MDZ	2.87	114	iP	12 49.20	13.0X
			i	12 54.00	
			iS	13 16.80	
RTLL	3.00	83	ePc	12 38.00	-0.1
CFA	3.17	89	ePd	12 40.70	0.2
ANT	8.12	10	eP	13 49.50	0.1
CNCB	15.30	15	P	15 30.00	4.2X
LPB	15.54	14	P	15 31.00	2.2
ZOBO	15.79	14	P	15 30.00	-2.1
Z	20s	0.20um			
			LR	20 48.00	
SIV	18.55	35	P	16 02.00	-3.8X
BAO	27.08	59	ePd	17 28.50	-1.9
LIC	74.00	72	P	23 22.80	0.4
TIC	74.25	72	P	23 24.00	0.1
KIC	74.31	72	P	23 24.60	0.4
LKO	75.48	69	Pc	23 31.50	0.5
	0.8s	14.00nm		4.9mb	
GBA	146.65	116	PKPc	31 29.70	3.3X
	0.9s	11.50nm			

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

& MAR 05, 1991 20h 17m 11.40s
34.443 N 106.867 W
DEPTH = 9.2km
NEW MEXICO (496)
<SNM>. MD 2.9 (SNM). Felt (III) at Lo Joya. Also felt at Bernardo.

BDNM	0.06	319	P	17 14.20	0.6
LAZ	0.23	260	P	17 16.00	-0.4
LPM	0.23	124	P	17 15.90	-0.6
BNM	0.36	147	P	17 18.30	-0.5
BMNM	0.37	243	P	17 18.70	-0.3
WTX	0.38	190	P	17 18.60	-0.5
CRNM	0.50	167	P	17 21.10	-0.5
ALQ	0.60	34	iPd	17 22.80	-0.8
			eS	17 50.35	
ANMO	0.61	34	iPd	17 22.97	-0.7
			S	17 31.23	
PV09	4.44	336	eP	18 21.30	0.6
GOL	5.38	12	e(P)	18 40.00	6.0
MSU	5.90	315	e(P)	18 42.50	1.3
DAU	6.91	331	eP	18 55.00	-0.5

13 obs. ossociated

MAR 05, 1991 22h 35m 48.13± 0.11s
3.984 S ± 2.7km 102.369 E ± 2.7km
DEPTH = 58.7km (geophysicist)
5.9mb (64 obs.)
SOUTHERN SUMATERA (274)
One school building ond some houses domoged ot Bengkulu.
Depth from broodbond displocement seismogroms.
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=118 Dip=60 Slip= 125
NP2: 244 45 45
Principal Axes:
T Plg=59 Azm= 79
P 9 184
Comment: The focol mechanism is poorly controlled and corresponds to reverse faulting with a large strike-slip component. The preferred fault plone is not determined.
RADIATED ENERGY
No. of sto: 5 Focol mech. F
Energy 2.4±0.9*10**13 Nm
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 23S, 50C
Centroid Location:
Origin Time 22:35:53.5 0.4
Lat 4.40S 0.03 Lon 102.51E 0.04
Dep 53.5 2.8 Half-duration 2.7
Moment Tensor; Scale 10**17 Nm
Mrr= 2.87 0.15 Mtt=-3.41 0.17
Mff= 0.54 0.27 Mrt= 2.71 0.24
Mrf=-0.90 0.17 Mtf= 1.57 0.17
Principal Axes:
T Val= 3.91 Plg=70 Azm= 17
N 1.09 1 109
P -5.00 20 199
Best Double Couple:Mo=4.4*10**17
NP1:Strike=290 Dip=25 Slip= 92
NP2: 108 65 89

KGM	6.03	9	iPd	37 21.10	4.2X
	0.7s	2216.60nm		6.7mb	
			i	37 26.00	
			e	37 46.00	
KLM	7.08	354	ePc	37 34.00	2.6
	1.0s	1530.00nm		6.7mb	
IPM	8.61	351	ePc	37 53.90	1.2
	0.5s	275.70nm		6.4mb	
			e	38 52.50	
			e	40 03.10	
SNG	11.22	351	eP	38 27.80	-0.5
	1.0s	400.00nm		6.4mb	
			eS	40 36.10	
MKS	17.09	95	ePc	39 47.20	2.6
	1.1s	635.50nm		5.7mb	
TSM	17.68	63	iPd	39 55.70	3.7X
	0.9s	768.30nm		5.9mb	
KHT	19.02	349	iPd	40 06.30	-2.0
NST	19.65	354	iPd	40 16.00	0.9
LOE	21.26	358	iPc	40 30.50	-1.1
PPR	21.27	50	iPc	40 34.00	2.3
	1.0s	32.00nm		4.6mb	X
BDT	21.35	351	eP	40 28.00	-4.5X
	0.6s	48.60nm		5.0mb	
KUPT	21.94	107	eP	40 33.50	-4.9X
			eS	44 25.50	
NANU	22.44	147	eP	40 44.00	0.7
	0.9s	538.00nm		6.0mb	
			e	40 56.00	
CHG	22.90	352	ePc	40 47.10	-0.8
	0.8s	119.22nm		5.4mb	
			eS	44 48.00	
CHTO	22.90	352	ePc	40 46.54	-1.3
	0.9s	119.14nm		5.3mb	
MNI	23.09	77	ePd	40 51.20	1.4
QIZ	24.02	18	iPc	41 01.00	2.3
	6.0s	2300.00nm		5.8mb	X
N	13s	2.20um			
E	14s	2.50um			

05d 22h

			pP	41	14.00	53kmX
			S	45	13.50	
PGP	25.34	46	iPc	41	14.00	2.7
			eS	41	29.00	
CGP	25.46	61	eP	41	14.00	1.5
	1.0s	9.00nm				4.2mb X
DAV	25.64	65	eP	41	16.00	1.9
AAI	25.77	90	eP	41	34.00	18.6X
MAP	25.79	56	ePc	41	12.00	-3.5X
	1.0s	11.00nm				4.3mb X
OCP	26.19	45	eP	41	17.00	-2.2
BAG	27.11	41	eP	41	26.00	-1.8
			eS	46	02.00	
MEKA	27.31	147	eP	41	29.00	-0.4
			e	41	38.00	
			eS	46	44.00	
SZP	27.87	39	iPc	41	37.00	2.6
KNA	28.47	116	eP	41	38.00	-1.9
	0.5s	80.00nm				5.6mb
KOD	28.54	300	iPc	41	42.30	1.4
	0.8s	44.78nm				5.1mb
			eS	46	28.00	
HKC	28.56	23	iP	41	41.50	0.9
CVP	28.86	41	eP	41	43.50	0.1
KMI	28.93	1	iPc	41	45.42	1.2
	0.6s	90.00nm				5.6mb
	Z 32s	7.60um				5.1MszX
			ePP	43	00.63	
			eS	46	32.75	
			eSS	47	02.71	
GZH	28.96	21	Pc	41	45.00	0.8
	Z 20s	7.10um				5.3Msz
	N 18s	4.50um				
	E 19s	4.60um				
			S	46	33.00	
MTN	29.75	109	iPd	41	49.90	-1.6
GBA	30.29	306	Pd	41	55.30	-0.9
	0.8s	28 40nm				5.1mb
GYA	30.55	8	Pc	41	58.40	-0.1
	1.2s	200.00nm				5.7mb
	Z 16s	3.00um				5.0MszX
	N 15s	5.10um				
	E 15s	2.30um				
			pP	42	13.40	61kmX
			S	46	54.00	
			ScS	52	26.40	
MUN	30.73	157	eP	42	00.00	0.1
	0.8s	208.00nm				5.9mb
	Z 20s	8.10um				5.4Msz
			e	42	12.00	
KLB	31.04	154	eP	42	02.30	-0.4
	0.5s	41.00nm				5.4mb
			e	42	15.00	
SHL	31.09	341	eP	42	02.00	-1.3
			eS	47	00.00	
NWAO	31.97	156	eP	42	10.50	-0.3
	0.6s	100.00nm				5.8mb
			e	42	19.00	
QZH	32.79	28	eP	42	18.20	0.2
RKG	32.89	157	eP	42	22.50	3.7X
TATO	34.26	32	iPc	42	31.33	0.6
			ed	42	49.29	
			ePP	44	09.49	
CD2	34.72	2	iPc	42	34.00	-0.7
	0.7s	200.00nm				6.2mb
	Z 20s	11.40um				5.6Msz
	N 18s	8.70um				
			pP	42	53.00	80kmX
			PP	43	56.00	
			S	48	01.00	
			sS	48	24.00	
LSA	35.18	343	iPc	42	39.00	-0.1
	Z 34s	8.00um				5.2MszX
			pP	42	55.00	63kmX
			S	48	04.00	
			sS	48	26.00	
			ScS	52	50.00	
GUN	35.47	334	Pc	42	41.60	0.1
DMN	35.55	333	Pc	42	42.00	0.0
KKN	35.63	333	Pc	42	42.60	0.0
POO	35.92	309	iPc	42	43.30	-1.7
	1.0s	102.00nm				5.7mb
GKN	36.10	333	Pc	42	46.40	-0.1
WHN	36.19	18	iPc	42	48.50	1.5
	6.0s	900.00nm				5.9mb X
	Z 20s	3.80um				5.2Msz
	N 16s	4.00um				

	E 14s	1.30um				
			pP	43	03.00	56kmX
			S	48	24.00	
NJ2	39.12	22	iPc	43	13.20	1.6
	4.0s	900.00nm				6.0mb X
	Z 22s	3.40um				5.1Msz
	N 13s	1.70um				
	E 13s	1.40um				
			iS	49	08.00	
SSE	39.23	26	Pd	43	14.00	1.5
	3.0s	850.00nm				6.1mb
	Z 20s	4.10um				5.3Msz
	N 18s	2.10um				
	E 16s	1.10um				
			pP	43	29.00	59kmX
			PP	44	46.00	
			PcP	45	20.00	
			S	49	10.00	
			sS	49	30.00	
			SS	52	00.00	
OIS	39.79	118	iPc	43	16.90	-0.5
			i	43	28.00	
			i	49	22.00	
LZH	39.88	2	iPc	43	18.87	0.8
	6.0s	990.00nm				5.9mb X
			epPc	43	33.19	55kmX
			ePP	44	52.31	
			PcP	45	22.93	
			eScP	49	05.63	
			eS	49	14.04	
			es$	49	40.94	
			eS$	52	26.48	
			Sc$	53	17.00	
NDI	40.49	325	iPc	43	23.00	0.0
	0.6s	180.00nm				6.1mb
			eS	49	25.00	
TIA	42.30	18	Pc	43	37.60	-0.1
	0.8s	100.00nm				5.6mb
	Z 23s	4.00um				5.2MszX
	N 17s	3.80um				
	E 17s	2.90um				
			PcP	45	30.60	
TIY	42.53	12	iPc	43	40.00	0.4
	1.0s	100.00nm				5.5mb
	Z 18s	4.00um				5.4Msz
	N 16s	3.60um				
GTA	43.24	357	iPc	43	45.60	0.1
	5.0s	1220.00nm				5.9mb X
	Z 26s	11.00um				5.6MszX
	N 18s	4.10um				
			pP	44	00.00	55kmX
			PP	45	26.00	
			S	50	06.00	
			sS	50	35.00	
			SS	53	16.00	
			Sc$	53	35.00	
KAGJ	44.30	36	eP	43	53.10	-0.9
BTO	44.92	8	iPc	43	59.50	0.5
	4.0s	1300.00nm				6.1mb X
	N 17s	7.00um				
	E 17s	2.20um				
			pP	44	15.00	60kmX
			PP	45	43.00	
			eS	50	29.00	
			SS	53	40.50	
KUMJ	45.26	35	eP	44	01.90	0.2
HHC	45.40	10	Pc	44	03.00	0.2
	1.2s	380.00nm				6.1mb
	Z 28s	3.70um				5.2MszX
	N 16s	1.40um				
	E 15s	1.00um				
			pP	44	17.00	53kmX
			PP	45	49.00	
			S	50	36.00	
			sS	51	06.00	
BJI	45.61	15	iPc	44	05.17	0.9
	1.0s	212.00nm				6.0mb
	Z 18s	35.30um				6.3Msz
	N 18s	4.17um				
			epP	44	20.23	58kmX
			PcP	45	41.42	
			ePP	45	56.87	
			eS	50	41.79	
			esS	51	05.46	
			eSS	53	52.00	
			e	54	22.00	
ADE	45.62	137	iPc	44	05.50	0.9

	1.2s	418.75nm				6.2mb
			e	44	15.00	
CTA	45.62	114	iPc+	44	04.80	0.0
	1.1s	567.09nm				6.4mb
			iS	50	39.00	
CTAO	45.62	114	ePc	44	04.25	-0.5
OLP	45.89	124	iPc	44	06.60	-0.2
			i	44	22.00	
STK	46.07	132	iPc	44	21.50	13.4X
	1.1s	136.30nm				
			iPcP	46	13.20	
			iScP	50	10.80	
			iS	50	59.30	
			iScS	54	34.80	
DL2	46.24	21	Pc	44	08.00	-1.3
	2.0s	600.00nm				6.2mb
	Z 24s	2.60um				5.1MszX
	N 24s	4.30um				
	E 16s	1.90um				
			PP	46	00.00	
			S	50	54.00	
SHNJ	46.60	33	eP	44	12.60	0.4
QUE	47.98	318	iPc+	44	23.00	-0.4
TKSJ	48.16	36	P	44	24.70	0.2
YONJ	48.69	34	P	44	28.20	-0.4
CMS	49.12	129	eP	44	32.00	0.0
			e	44	52.00	
WKYJ	49.24	37	P	44	32.50	-0.4
WMO	49.39	346	iPc	44	34.29	0.4
	6.0s	1600.00nm				6.2mb X
	Z 22s	1.50um				4.9Msz
			epP	44	49.94	60kmX
			eS	51	33.78	
			esS	51	58.12	
BFD	49.43	137	iPc	44	35.00	0.7
			i	44	43.00	
			e	50	12.00	
SNY	49.51	21	iPc	44	34.20	-0.6
	6.0s	900.00nm				6.0mb X
	Z 27s	4.70um				5.4MszX
	N 15s	0.90um				
	E 14s	1.90um				
			pP	44	49.00	56kmX
			PP	46	30.00	
			S	51	35.00	
RMO	49.66	122	iPc	44	35.80	-0.4
			e	50	13.00	
TSRJ	50.38	36	P	44	41.10	-0.4
TOO	51.65	136	iPc	44	52.80	1.6
	0.8s	56.00nm				5.6mb
			ePcS	50	22.00	
CN2	51.91	21	iPc	44	52.20	-0.8
	4.0s	700.00nm				6.0mb X
	Z 24s	6.70um				5.6MszX
	N 17s	1.00um				
	E 17s	1.30um				
			epP	45	05.00	46kmX
			PP	46	52.00	
			S	52	09.00	
MTMJ	52.17	36	P	44	54.50	-0.7
MAJO	52.38	37	ePc	44	55.36	-1.3
			epP	45	11.25	61kmX
			eS	52	14.71	
			esS	52	39.96	
			eScS	54	39.56	
MAT	52.38	37	iPc	44	55.30	-1.4
	Z 20s	0.71um				4.7Msz
			eS	52	06.00	
CHJJ	52.53	38	P	44	56.30	-1.4
KAKJ	53.35	38	P	45	01.10	-2.6
BRS	53.35	121	iPc	45	04.00	0.0
			i	45	08.00	
			i	45	19.00	
			i	45	30.50	
			i	45	36.50	
			e(S)	51	30.00	
CNB	53.40	132	iPd	45	04.70	0.4
COO	53.60	125	iPc	45	06.20	0.4
	1.0s	150.00nm				6.0mb
			i	45	23.00	
			i	45	54.30	
YAMJ	54.55	36	P	45	12.20	-0.4
HIA	55.14	14	iPc	45	15.88	-0.9
			PcP	46	16.55	
			e	52	07.17	
			eS	52	47.18	
TAU	55.56	141	iPc	45	20.70	0.9

			e	52	44.00			RDO	82.74	312	eP	48	07.00	-0.1				e	52	33.60									
OFUJ	56.11	36	iP+	45	23.00	-0.9		VRI	82.91	317	iPc	48	18.00	10.0X		MGR	90.10	310	Pc	48	43.10	-0.1							
SVO	57.25	98	P	45	30.00	-2.4		DIM	82.93	313	eP	48	08.00	-0.1		VKA	90.31	318	iPc	48	44.40	0.4							
MRRJ	57.99	33	P	45	36.20	-0.8		KDZ	82.93	313	iPc	48	07.00	-1.2			1.8s	215.00nm				6.2mb							
HOOJ	59.19	34	P	45	45.50	0.1		BUC1	83.05	315	iPc	48	10.00	1.3					i	48	58.80								
ASAJ	59.98	33	P	45	50.10	-0.7		PVL	83.31	314	iPc	48	11.00	1.0					i	49	02.00								
KUSJ	60.45	35	P	45	53.40	-0.6		MLR	83.36	316	iPc	48	20.50	10.1X					e	51	32.00								
RYD	61.20	301	iPc	46	00.00	0.4		ATH	83.52	309	eP	48	10.00	-1.2		SGO	90.33	310	Pd	48	44.90	0.7							
DHJN	61.91	292	iPc	46	06.70	1.9		PLD	83.54	313	iPc	48	11.00	-0.2		MNO	90.59	308	Pd	48	47.10	1.3							
SRAT	62.31	293	iPc	46	09.30	1.9		PAIG	83.90	311	iPd	48	12.72	-0.4		UPP	90.77	330	iPc	48	45.70	-0.1							
KMTA	62.62	293	iPc	46	11.10	1.8		VLI	83.92	307	eP	48	12.50	-0.8					i	49	02.60								
ABHA	62.74	293	ePc	46	11.00	0.8		CMP	83.94	316	ePc	48	13.00	-0.2					i	52	40.00								
DZM	64.51	112	iPc	46	21.00	-0.6		PGB	84.02	313	iPc	48	13.00	-0.7		VBY	90.79	315	iPc	48	47.20	1.0							
AAE	64.70	282	eP	46	24.60	1.4		MMB	84.16	312	ePc	48	14.00	-0.5		DUI	91.06	312	P	48	48.00	0.3							
TAB	66.58	314	iPc	46	34.00	-0.7		BCAO	84.17	275	ePd	48	08.40	-6.7X		GIB	91.12	308	P	49	02.50	14.4X							
MAW	68.98	195	eP	46	50.40	1.5			1.0s	215.00nm				6.1mb		LJU	91.33	316	ePc	48	49.90	1.1							
	0.9s	111.00nm				5.8mb					i	48	16.50			CEY	91.39	316	ePc	48	49.30	0.2							
MSZ	69.94	136	eP	46	55.90	0.7					i	48	32.10			KMR	91.75	318	iP+	48	51.30	0.6							
AYN	71.48	302	iPc	47	05.33	0.5					i	50	19.10						i	49	06.40								
BADA	72.24	301	iPc	47	11.00	1.6		SRS	84.17	312	iPd	48	13.89	-0.6					iPP	52	31.70								
HOL	72.39	302	iPc	47	11.67	1.4		SOH	84.30	312	Pd	48	14.60	-0.6		VOY	91.78	316	ePc	48	51.10	0.2							
KFNJ	72.56	305	P	47	11.30	0.1		THE	84.56	311	iPd	48	15.80	-0.6					e	49	06.00								
LTZ	72.60	134	P	47	11.00	-0.3		KNT	84.70	312	ePc	48	16.44	-0.7		AOI	91.82	313	eP	48	51.25	0.2							
			e	47	24.60			VTS	84.72	313	iPc	48	17.00	-0.4		TRI	91.85	316	ePc	48	51.00	-0.1							
MBH	72.66	303	eP	47	12.00	0.0		AGG	84.77	310	ePd	48	16.20	-1.3					e	52	29.80								
THZ	72.87	132	P	47	12.50	-0.5		LIT	84.83	311	iPc	48	17.06	-0.7		AQU	91.89	312	P	49	08.60	17.1X							
			e	47	28.80			VAY	84.97	312	iPc	48	18.30	-0.1		BRG	92.06	321	iPc	48	52.60	0.6							
MML	72.94	306	eP	47	14.00	0.5			1.6s	194.00nm				5.9mb			1.8s	140.00nm				6.1mb							
GAZ	72.95	311	eP	47	13.90	0.5					i	48	25.00						ipP	49	07.20	50kmX							
BHL	73.16	307	Pc	47	14.00	-0.8					i	48	33.00						e	52	25.80								
			S	56	38.00			GRG	85.03	312	ePc	48	18.02	-0.8					i	52	32.50								
ADI	73.27	306	eP	47	16.00	0.6		AFI	85.04	104	iPc	48	21.50	2.2		CIO	92.13	313	eP	48	52.65	0.0							
BUL	73.39	250	iPc	47	16.90	0.4		KZN	85.40	311	eP	48	20.00	-0.7		KBA	92.22	317	iPKPc	48	52.70	-0.4							
			ipP	47	30.60	48kmX		DEV	85.53	316	iP	48	25.00	3.9X			1.4s	47.80nm				5.7mb							
KHZ	73.45	133	P	47	15.80	-0.4		FNA	85.77	311	ePd	48	21.30	-1.3					i	49	07.40								
			e	47	32.00			SKO	85.91	312	iPc	48	22.20	-0.9					i	49	17.20								
TCW	73.80	132	P	47	17.50	-0.7			1.1s	167.00nm				6.1mb					i	49	37.30								
			e	47	33.60						i	48	37.30						e	52	22.00								
SLR	73.95	244	iPc	47	19.00	-0.6					i	51	25.00						i	52	36.90								
	0.9s	42.02nm				5.4mb					i	58	46.00			ARV	92.30	313	P	48	36.00	-17.3X							
Z	22s	3.70um				5.6Msz					i	59	10.00			BHG	92.57	317	eP	48	54.20	-0.3							
			i	47	34.00						i	04	46.00				1.5s	80.00nm				5.9mb							
MRW	74.12	132	P	47	19.20	-0.9		VLS	85.99	309	eP	48	23.60	0.0		FVI	92.58	316	Pc	48	54.50	0.1							
			e	47	34.90			CEI	86.15	318	eP	48	28.00	3.9X		WET	92.65	319	iPc	48	55.50	0.7							
WEL	74.17	132	P	47	20.00	-0.4		OHR	86.26	311	iPc	48	24.10	-0.8			1.6s	180.00nm				6.3mb							
			i	47	34.00				0.7s	72.00nm				6.0mb		CLL	92.68	321	iPc	48	55.00	0.2							
KIW	74.22	131	P	47	20.20	-0.5					i	48	36.60				1.8s	70.00nm				5.8mb							
CNZ	74.47	129	P	47	23.20	0.8					i	48	43.50						ipP	49	09.90	51kmX							
NGZ	74.51	129	P	47	23.00	0.4		BZS	86.37	316	eP	48	25.50	0.2		HFS	92.76	330	eP	48	54.90	-0.1							
MNG	74.61	131	P	47	22.70	-0.3		IGT	86.38	310	ePc	48	25.40	-0.1			0.7s	56.50nm				6.1mb							
MTW	74.70	131	P	47	23.60	0.1		TIM	86.66	316	iPc	48	27.00	0.3		CRE	93.02	313	P	48	56.80	0.1							
PRY	74.74	243	iPc	47	32.00	7.8X		KAF	87.02	333	iP	48	28.80	0.7		SFI	93.11	314	Pc	48	58.10	1.2							
			i	47	50.00				0.5s	96.90nm				6.3mb		CTI	93.34	316	Pc	48	58.70	0.6							
WHH	75.16	129	P	47	26.00	-0.3		BEO	87.05	315	iPd	48	28.30	-0.3		HOF	93.35	320	eP	48	58.50	0.5							
PGZ	75.21	131	P	47	26.60	0.2		NUR	87.42	331	ePc	48	30.00	0.0		WTTA	93.40	317	iPKPc	48	57.90	-0.6							
	0.5s	225.00nm				6.4mb			0.6s	164.30nm				6.4mb					i	49	13.00								
CSS	75.30	308	eP	47	27.00	-0.1					i	48	46.20			MOX	93.53	320	iP	48	59.50	0.7							
HLW	75.67	302	eP	47	24.50	-4.7X		ADK	87.53	38	P	48	31.60	0.9			1.8s	81.00nm				5.9mb							
PPCY	76.06	307	e(P)	47	31.00	-0.3			1.0s	100.00nm				6.0mb			Z 32s	4.20um				5.7MszX							
HBZ	76.44	128	eP	47	33.80	0.4					pP	48	49.40	63kmX					i	49	14 00								
	0.4s	94.00nm				6.1mb		SPC	87.84	319	iP	48	33.30	0.7		FIR	93.53	313	eP	49	03.00	4.1X							
			e	47	49.90						e	52	00.60			SQTA	93.68	317	iPKPc	48	59.50	-0.2							
PUZ	76.45	128	P	47	32.80	-0.7		PSZ	87.89	318	iP	48	32.70	0.0					i	49	11.50								
			e	47	48.40			KRA	88.17	320	iPc	48	34.30	0.4					i	49	16.10								
BBTK	77.08	312	iPc	47	36.00	-1.1			1.7s	350.00nm				6.3mb		GRF	93.75	319	ePc	49	01.00	1.2							
BCK	78.09	309	iP	47	41.70	-0.9					e	48	49.30				2.4s	356.00nm				6 4mb							
ELL	78.44	309	iP	47	43.70	-1.0		SOD	88.20	338	iPc	48	34.10	0.4			Z 24s	0.50um				4.9MszX							
ALT	78.85	311	eP	47	46.50	-0.3					i	48	49.40						ec	49	26.30								
KHL	79.12	310	iP	47	46.70	-1.6		LCI	88.30	310	Pd	48	34.90	0.2		OGA	93.80	317	iPc	49	00.50	0.1							
HRT	79.62	313	eP	47	50.80	-0.1		BUD	88.41	318	eP	48	35.20	0.1		NB2	94.02	331	P	49	00.50	-0.3							
GBZT	79.78	312	eP	47	50.50	-1.1		UZD	88.60	317	iP	48	37.00	1.0			0.8s	24.70nm				5.7mb							
YER	79.80	309	eP	47	50.00	-1.9		KEV	88.68	340	ePc	48	35.02	-0.9		RGS	94.40	333	eP	49	02.50	0.0							
DST	80.10	311	iP	47	53.00	-0.5			0.8s	80.70nm				6.0mb		MDI	94.68	315	P	49	04.00	-0.1							
ISK	80.13	313	iP	47	53.30	-0.2					i	48	51.30			TNS	95.55	320	ePc	49	08.70	0.5							
KCT	80.45	312	iP	47	53.50	-1.8					eS	59	18.89			ABH	96.14	320	eP	49	11.03	0.2							
BNT	80.80	312	iP	47	56.20	-0.9					e	59	41.93			SBF	96.30	314	eP	49	11.40	-0.3							
EDC	80.84	312	iP	47	57.50	0.2		BRT	88.93	311	Pc	48	38.40	0.7		CDF	96.34	318	eP	49	11.50	-0.3							
SBA	80.86	169	P	47	58.50	1.7		SRO	88.93	318	iPc	48	38.40	0.9		LPG	96.76	315	iPc	49	13.90	-0.2							
IZM	80.86	310	iP	47	58.00	0.5		TIH	89.11	317	iP	48	38.90	0.5			0.7s	5.50nm				5.2mb							
DMK	81.26	313	iP	47	59.00	-0.5		BLY	89.36	315	eP	48	40.50	0.9		LPL	96.78	315	iPc	49	13.90	-0.1							
PSN	81.39	315	iPc	47	59.00	-1.1		ORI	89.41	310	Pc	48	41.80	1.8			0.7s	7.15nm				5.3mb							
CFR	81.77	317	iPc	48	03.00	1.0		TDS	89.46	310	Pc	48	42.10	1.8		FRF	96.87	313	eP	49	14.50	0.3							
PRK	81.80	310	eP	48	02.70	0.4		SOI	89.53	308	Pc	48	41.70	1.1			0.6s	5.40nm				5.3mb							
EZN	81.88	311	iP	48	02.20	-0.5		HVAR	89.72	313	iPc	48	41.20	-0.2		HAU	96.97	318	eP	49	14.00	-0.6							
SMY	82.22	36	P	48	04.00	-0.2		ZST	89.78	318	iPc	48	42.30	0.7			0.9s	9.85nm				5.3mb							
JMB	82.25	314	iPc	48	05.00	0.4					i	48	56.50				Z 23s	0.73um				5.1MszX							
IAS	82.66	318	eP	48	06.00	-0.6					e	52	14.70			BRW	97.24	19	eP	49	15.90	0.6							

05d 22h

DOU	98.03	320	P	49	19.20	-0.1				iSKP	58	57.50					e(S)	41	02.00	
			e	49	36.90		JFO	137.80	231	(PKP)	55	25.00	16.3X	MKS	5.23	214	ePc	40	35.00	-0.1
LOR	98.69	317	eP	49	23.40	1.1	BMA	137.90	229	ePKP	55	02.10	-6.7X				e(S)	41	37.00	
	0.9s		12.30nm			5.4mb	PDCR	138.37	246	ePKP	55	09.40	-0.4	AAI	6.43	116	eP	40	53.40	1.5
SMF	98.74	316	eP	49	22.90	0.3	BNH	139.17	353	PKP	55	05.80	-4.6X	TSM	6.65	319	iPd	40	56.50	1.4
TTA	98.82	27	P	49	22.40	-0.3	ANMO	139.23	37	PKP	55	02.40	-8.7X	KUPT	9.31	173	eP	41	29.70	-2.2
	1.4s		28.41nm			5.6mb	ALO	139.23	37	ePKP	55	03.80	-7.3X	IPM	22.04	284	ePc	44	13.50	3.9X
IMA	99.27	24	eP	49	25.30	0.5	RSNY	139.51	357	PKP	55	05.20	-5.8X	WRA	22.27	149	iPc	44	12.30	0.3
	1.1s		19.70nm			5.6mb	VAO	139.81	227	ePKP	55	03.50	-8.8X		0.9s		55.00nm			5.0mb
PDB	100.18	30	Pdiff	49	27.50	-1.3				e	55	12.70					iS	55	52.50	
DAG	100.72	348	iPdiff	49	29.30	-1.6				e	55	27.80		WB2	22.28	149	iPc	44	12.30	0.3
	0.7s		13.01nm			5.7mb	SOB1	141.11	250	ePKP	55	07.90	-6.9X		0.9s		55.00nm			5.0mb
LFF	101.03	315	ePdiff	49	33.70	0.7				e	55	14.50					iS	55	52.50	
PMR	102.24	28	Pdiff	49	37.30	-0.6				e	55	23.70		ASPA	25.26	155	iPd	44	41.30	0.4
	1.4s		22.73nm			5.7mb	LNV	141.81	188	ePKP	55	09.50	-5.9X		0.6s		28.90nm			5.0mb
MBC	104.19	9	ePdiff	49	49.50	3.2X	PCH	142.00	190	ePKP	55	10.50	-5.5X		Z 20s		0.70um			4.2Msz
	0.5s		2.00nm			5.3mb	TACH	142.04	189	ePKP	55	11.00	-4.9X	WARB	25.50	171	eP	44	43.00	-0.1
INK	105.79	19	ePdiff	49	52.50	-1.0	PEL	142.49	190	ePKP	55	13.00	-3.8X	QIS	25.80	140	iPc	44	46.60	0.7
INK	105.79	19	ePKP	54	06.00	-0.1	ROCH	142.72	189	ePKP	55	13.50	-3.9X	LOE	27.29	313	eP	45	10.00	10.5X
IFR	106.77	304	iPKPc	54	21.00	11.7X	PPD	143.51	224	ePKP	55	16.30	-2.4X	CHG	30.23	311	eP	45	26.00	0.0
TIO	108.86	301	ePKP	54	30.00	16.7X				e	55	25.20		CHTO	30.23	311	eP	45	26.50	0.5
			i	54	41.50					e	55	34.70			1.1s		10.90nm			4.5mb
YKA	115.54	18	ePdiff	50	54.50	17.4X	CCM	143.88	18	ePKPc	55	15.45	-3.4X				pP	45	32.30	20kmX
	0.9s		1.00nm							ePP	58	31.84					sP	45	36.10	
YKA	115.54	18	ePKP	54	22.80	-2.0X	BIX	144.00	26	iPKP	55	17.20	-1.9	GYA	31.12	332	P	45	35.00	1.1
	0.7s		3.20nm				FVM	144.20	17	PKP	55	16.40	-3.0X	WHN	32.16	347	eP	45	46.00	3.2X
FRB	120.00	355	ePKPc	54	31.50	-1.7	BDF	144.69	236	ePKPc	55	17.65	-3.4X	NJ2	32.91	354	Pd	45	47.80	-1.4
MCW	121.17	33	PKP	54	36.50	0.4				epPKP	55	34.21		STK	35.78	151	eP	46	27.20	13.2X
PNT	122.51	31	iPKPc	54	38.60	0.1	BAO	144.78	236	iPKPc	55	20.50	-0.7		0.9s		10.40nm			
	0.5s		19.00nm				CBN	145.94	360	ePKP	55	22.00	-0.4	CD2	36.23	332	eP	46	17.10	-0.7
EDM	122.83	25	iPKPc	54	38.50	-0.6				e	55	39.00			0.9s		30.00nm			5.2mb
	0.5s		71.00nm				NA2	146.02	0	PKP	55	22.20	-0.3	XAN	36.96	341	Pd	46	23.00	-0.9
NEW	124.46	31	PKP	54	42.20	-0.2	OLY	146.13	20	PKP	55	21.60	-1.2	TIY	39.47	348	eP	46	44.80	-0.2
FHC	124.59	42	e(PKP)	54	41.70	-1.2	UYO	146.13	26	iPKPd	55	21.50	-1.3		Z 22s		0.60um			4.4Msz
WDC	125.65	41	ePKPc	54	44.60	-0.3	RSCP	147.69	12	PKP	55	27.20	1.9		E 17s		0.40um			
FFC	125.69	17	iPKPc	54	43.70	-0.9	GBTN	147.89	10	PKP	55	24.90	-0.7	MAT	40.01	20	(P)	46	46.00	-3.3X
	0.7s		17.00nm				SLA	149.12	202	e(PKP)	55	13.00	-15.1X		1.0s		18.00nm			4.8mb
SES	125.87	26	ePKP	54	44.00	-1.1	JSC	149.67	6	PKP	55	28.20	-0.2	LZH	40.62	337	eP	46	53.00	-1.6
			pP	55	01.00		ANT	151.59	194	iPKPc	55	39.00	7.4X		1.5s		25.00nm			4.8mb
MIN	126.39	41	ePKPc	54	45.90	-0.7	SIV	154.27	219	iPKPc	55	35.40	-0.2				pP	47	04.00	39kmX
ORV	126.86	42	ePKP	54	46.60	-0.7	CNCB	157.25	205	PKPc	55	41.00	0.8	BJI	41.10	353	eP	46	59.00	0.8
BRK	127.16	44	ePKPc	54	47.30	-0.6				i	56	30.00		LSA	42.58	318	P	47	12.00	0.9
BKS	127.18	44	ePKPd	54	48.10	0.2	LPB	157.54	205	PKP	55	39.00	-1.3	GTA	45.11	335	P	47	31.00	0.0
	1.2s		131.00nm					Z 21s		1.43um			5.8Msz		0.8s		10.00nm			4.7mb
	Z 20s		0.90um			5.4Msz				i	56	28.00		GUN	45.24	312	P	47	32.40	-0.1
	E 20s		1.30um							LR	49	52.00			0.8s		40.00nm			5.3mb
			eLR	36	37.60		ZOBO	157.79	205	ePKP	55	41.09	0.2	KKN	45.62	312	P	47	35.00	-0.3
MHC	127.84	45	ePKPc	54	49.90	0.5		1.1s		44.95nm				DMN	45.66	311	P	47	36.40	0.7
ARN	127.92	44	PKP	54	50.20	0.8		Z 24s		0.96um			5.5MszX	GKN	46.22	311	P	47	39.60	-0.4
CMB	128.37	43	ePKPc	54	50.20	-0.1				i	56	31.41		GBA	46.82	290	P	47	56.00	11.4X
LRM	128.47	31	ePKP	54	50.30	-0.2				LR	49	56.00			S.D. = 1.0		on 25 of 31 obs.			
PRS	128.52	46	ePKP	54	51.20	0.6	ARE	158.80	196	ePKP	55	43.00	1.4	----------						
SCH	128.56	352	ePKP	54	49.40	-0.7	NNA	164.11	183	iPKP	56	04.00	17.2X		MAR 06, 1991 00h 04m 33.19± 0.43s					
	0.6s		26.00nm					0.9s		16.81nm					31.298 S ± 7.0km 68.892 W ±10.3km					
LLA	128.68	45	ePKPc	54	51.30	0.4		S.D. = 0.9		on 304 of 351 obs.					DEPTH = 114.0 ± 6.2 km					
PRI	129.11	45	ePKPc	54	52.80	1.0	----------								4.7mb (2 obs.)					
FRI	129.36	44	ePKPc	54	52.10	0.0	• MAR 05, 1991 23h 19m 33.93± 2.23s								SAN JUAN PROVINCE, ARGENTINA (137)					
ISA	130.89	45	ePKP	54	55.00	-0.2		36.830 N ±15.9km 71.474 E ± 9.0km												
			e	55	13.00			DEPTH = 153.8 ± 28.5 km												
			e	58	38.00			4.4mb (6 obs.)												
CLC	131.43	44	ePKP	54	56.00	-0.2	AFGHANISTAN-USSR BORDER REGION (717)													
			e	55	14.00															
			e	58	39.00		QUE	7.62	211	iPc	21	23.60	0.0							
SBB	131.84	46	ePKP	54	57.00	0.0		0.5s		250.00nm			6.0mb X							
			e	55	14.00					eS	22	44.30								
			e	58	14.00		GKN	14.17	125	P	22	48.60	-0.4							
PAS	131.86	46	ePKP	54	58.00	1.0		0.6s		21.00nm			4.7mb							
			e	58	42.00		KKN	14.73	124	P	22	56.60	0.4							
MWC	131.90	46	ePKP	55	16.00	18.7X		0.6s		16.00nm			4.5mb							
BW06	132.08	32	ePKPc	54	56.50	-0.9	DMN	14.74	125	P	22	56.60	0.3							
			iSKP	58	41.70		GUN	15.06	122	P	23	00.00	-0.4							
GSC	132.24	44	ePKP	54	58.00	0.2		0.4s		15.00nm			4.7mb							
			e	58	45.00		GBA	23.74	165	Pd	24	33.10	0.0							
GSC	132.24	44	ePdiff	51	51.68	-0.6		0.2s		1.10nm			4.0mb							
RVR	132.51	46	ePKP	54	58.00	-0.2	HFS	43.04	322	eP	27	19.70	0 ?							
			e	58	48.00			0.4s		2.60nm			4.2m							
PEC	132.72	46	ePKPd	54	59.00	0.3	NB2	44.35	323	P	27	29.80	-0							
			eSKP	58	43.50			0.4s		0.80nm			3.7m							
TPC	133.40	45	ePKP	55	01.00	1.0		S.D. = 0.4		on 8 of 8 obs.										
			e	58	47.00		----------													
BAR	133.67	47	ePKP	55	03.00	2.5X		MAR 05, 1991 23h 39m 17.40± 0.93s												
			e	58	48.00			0.861 S ± 5.5km 122.408 E ± 7.7km												
RSSD	133.74	26	e(PKP)	54	57.50	-3.0X		DEPTH = 48.3 ± 10.7 km												
			e	58	23.00			4.9mb (9 obs.) 4.3Msz (2 obs.)												
			iSKP	58	48.20		MINAHASSA PENINSULA (265)													
GOL	136.48	31	ePKPc	55	05.50	-0.4														
	Z 20s		5.00um			6.2Msz	MNI	3.34	47	ePc	40	07.50	-0.9							

MKS	5.23	214	ePc	40	35.00	-0.1
			e(S)	41	37.00	
AAI	6.43	116	eP	40	53.40	1.5
TSM	6.65	319	iPd	40	56.50	1.4
KUPT	9.31	173	eP	41	29.70	-2.2
IPM	22.04	284	ePc	44	13.50	3.9X
WRA	22.27	149	iPc	44	12.30	0.3
	0.9s		55.00nm			5.0mb
			iS	55	52.50	
WB2	22.28	149	iPc	44	12.30	0.3
	0.9s		55.00nm			5.0mb
			iS	55	52.50	
ASPA	25.26	155	iPd	44	41.30	0.4
	0.6s		28.90nm			5.0mb
	Z 20s		0.70um			4.2Msz
WARB	25.50	171	eP	44	43.00	-0.1
QIS	25.80	140	iPc	44	46.60	0.7
LOE	27.29	313	eP	45	10.00	10.5X
CHG	30.23	311	eP	45	26.00	0.0
CHTO	30.23	311	eP	45	26.50	0.5
	1.1s		10.90nm			4.5mb
			pP	45	32.30	20kmX
			sP	45	36.10	
GYA	31.12	332	P	45	35.00	1.1
WHN	32.16	347	eP	45	46.00	3.2X
NJ2	32.91	354	Pd	45	47.80	-1.4
STK	35.78	151	eP	46	27.20	13.2X
	0.9s		10.40nm			
CD2	36.23	332	eP	46	17.10	-0.7
	0.9s		30.00nm			5.2mb
XAN	36.96	341	Pd	46	23.00	-0.9
TIY	39.47	348	eP	46	44.80	-0.2
	Z 22s		0.60um			4.4Msz
	E 17s		0.40um			
MAT	40.01	20	(P)	46	46.00	-3.3X
	1.0s		18.00nm			4.8mb
LZH	40.62	337	eP	46	53.00	-1.6
	1.5s		25.00nm			4.8mb
			pP	47	04.00	39kmX
BJI	41.10	353	eP	46	59.00	0.8
LSA	42.58	318	P	47	12.00	0.9
GTA	45.11	335	P	47	31.00	0.0
	0.8s		10.00nm			4.7mb
GUN	45.24	312	P	47	32.40	-0.1
	0.8s		40.00nm			5.3mb
KKN	45.62	312	P	47	35.00	-0.3
DMN	45.66	311	P	47	36.40	0.7
GKN	46.22	311	P	47	39.60	-0.4
GBA	46.82	290	P	47	56.00	11.4X
	S.D. = 1.0		on 25 of 31 obs.			

MAR 06, 1991 00h 04m 33.19± 0.43s
31.298 S ± 7.0km 68.892 W ±10.3km
DEPTH = 114.0 ± 6.2 km
4.7mb (2 obs.)
SAN JUAN PROVINCE, ARGENTINA (137)

RTCB	0.20	157	eP	04	49.80	0.1
ZON	0.31	144	iPd	04	49.70	-0.3
RTLL	0.36	95	iPc	04	50.00	0.0
CFA	0.64	119	iPc	04	51.50	-0.3
MDZ	1.58	179	iP	05	02.40	0.7
			i	05	22.10	
JACH	2.00	226	iPc	05	08.20	1.3
			i	05	35.00	
PEL	2.39	219	iPc	05	12.40	0.5
			iS	05	40.50	
ROCH	2.45	227	iPc	05	13.10	0.1
			iS	05	42.50	
SAN	2.62	214	iP	05	15.00	0.0
			iS	05	45.50	
PCH	2.69	210	iPc	05	16.30	0.3
			i	05	49.50	
TACH	2.92	216	iPc	05	18.50	-0.4
			iS	05	52.50	
LCCH	3.14	226	ePd	05	21.40	-0.4
			iS	05	58.00	
LNV	3.40	218	iPd	05	23.70	-1.6
			i	05	57.00	
			i	06	02.00	
SLA	7.20	25	iPd	06	02.20	-15.3X
ANT	7.68	350	eP	06	21.50	-2.4
CNCB	14.45	4	P	07	55.00	1.0
LPB	14.72	3	P	07	59.00	1.7
ARE	14.96	350	iPc	08	03.50	3.3X
ZOBO	14.98	3	P	08	02.00	1.3

0.9s 42.17nm 4.7mb
SIV 16.83 27 P 08 21.70 -1.6
PPD 18.20 64 (P) 09 02.00 22.1X
KIC 71.70 70 P 16 12.00 27.2X
0.8s 6.50nm
LKO 72.89 67 P 15 52.44 0.6
0.7s 9.00nm 4.7mb
WRA 124.38 207 PKP 23 21.00 0.3
1.0s 1.00nm
GBA 144.44 112 PKP 23 57.00 -1.0
S.D. = 1.1 on 21 of 25 obs.

MAR 06, 1991 00h 29m 52.89± 0.49s
10.643 N ± 6.5km 94.339 E ± 5.6km
DEPTH = 33.0km (normal)
4.8mb (14 obs.)
ANDAMAN ISLANDS REGION (703)

NNT 5.63 69 iPd 31 16.00 -0.5
KHT 5.85 45 iPd 31 19.30 -0.3
NST 7.54 48 eP 31 43.80 0.5
BDT 7.97 34 eP 31 45.20 -4.2X
IPM 8.95 132 eP 32 01.00 -2.0
0.5s 68.00nm 6.1mb X
e 33 36.50
CHG 9.26 28 eP 32 07.50 0.2
CHTO 9.26 28 eP 32 07.30 0.0
0.8s 3.48nm 4.6mb
LOE 9.83 46 eP 32 14.00 -1.1
KMI 16.46 28 Pc 33 46.50 3.2X
GBA 16.79 282 P 33 51.00 3.8X
S 36 31.00
GUN 18.93 336 P 34 14.00 -0.1
DMN 18.98 334 P 34 12.80 -1.8
0.9s 79.00nm 4.9mb
KKN 19.07 335 P 34 15.20 -0.4
LSA 19.19 352 eP 34 16.40 -0.9
sP 34 28.00
GKN 19.53 334 P 34 20.20 -0.6
GYA 19.57 35 P 34 21.60 0.3
POO 21.31 294 iPd 34 38.40 -0.9
CD2 21.98 22 P 34 46.50 0.6
1.2s 100.00nm 5.1mb
NDI 24.07 321 eP 35 08.00 1.7
LZH 26.76 17 Pd 35 32.00 0.3
2.0s 57.00nm 4.8mb
Z 15s 0.39um 4.1MszX
N 12s 0.28um
XAN 26.84 28 Pc 35 31.70 -0.7
GTA 29.06 9 eP 35 52.80 0.3
1.2s 10.00nm 4.4mb
TIY 31.48 28 eP 36 13.00 -0.9
Z 14s 0.60um 4.4MszX
QUE 32.06 311 eP 36 20.60 1.4
e(S) 41 33.00
WMO 33.55 351 P 36 33.40 1.5
1.0s 20.00nm 5.0mb
eS 41 53.40
HHC 33.71 24 eP 36 33.70 0.3
BJI 35.10 30 eP 36 46.00 0.8
SNY 40.27 34 eP 37 29.50 1.0
CN2 42.61 34 Pd 37 48.60 0.9
pP 37 55.60 23kmX
WRA 49.74 128 iPc 38 45.30 0.8
0.7s 17.80nm 5.2mb
i 38 53.10
e 38 57.00
WB2 49.75 128 iPc 38 45.30 0.8
0.7s 17.80nm 5.2mb
i 38 53.10
e 38 57.00
STK 61.89 135 eP 40 24.00 12.3X
1.2s 2.20nm
VRI 66.87 315 ePc 40 57.00 13.1X
MLR 67.36 315 ePd 40 56.00 8.8X
KAF 70.44 332 eP 41 13.00 7.3X
SOD 71.73 338 iP 41 20.70 7.3X
KEV 72.31 340 eP 41 21.00 4.2X
BCAO 75.26 272 ePc 41 44.00 8.9X
0.6s 5.00nm 4.7mb
i 41 45.20
SLL 76.38 330 eP 41 39.30 -1.2
0.5s 1.20nm 4.2mb
NB2 77.43 330 P 41 45.10 -1.2
0.8s 2.30nm 4.3mb
LPG 80.82 315 eP 42 04.80 -0.5
LPL 80.83 315 eP 42 04.90 -0.4

0.7s 4.40nm 4.6mb
LBF 82.56 316 eP 42 22.90 8.8X
0.7s 4.95nm 4.7mb
SSF 82.87 316 eP 42 24.00 8.4X
RJF 84.50 315 eP 42 28.60 4.7X
0.9s 13.10nm 5.1mb
INK 94.30 16 ePd 43 10.20 0.3
PPD 145.23 247 ePKP 49 31.20 1.5
S.D. = 1.0 on 34 of 47 obs.

MAR 06, 1991 01h 17m 24.55± 1.11s
37.340 N ±10.0km 15.324 E ± 7.9km
DEPTH = 24.7 ± 6.2 km
SICILY (398)
ML 2.8 (ROM). Felt (IV) in the
Catania-Siracuso area.

MEU 0.39 233 iPg 17 32.77 -0.3
eSg 17 38.36
MNO 0.77 320 iPg 17 39.54 0.1
eSg 17 50.62
ATN 0.83 8 ePg 17 40.68 0.5
eSg 17 51.94
MSI 0.88 12 P 17 42.30 1.2
eSg 17 54.20
GMB 0.93 27 ePg 17 42.46 0.5
eSg 17 55.84
SOI 0.93 38 P 17 42.30 0.4
eSg 17 56.10
GIB 1.22 303 P 17 46.20 0.1
eSn 18 03.00
FAI 1.32 268 P 17 48.00 0.6
eSg 18 05.50
MCT 1.38 283 ePn 17 49.50 1.0
GRI 1.71 30 ePn 17 53.90 0.7
eSn 18 15.85
USI 2.18 309 P 17 58.40 -1.4
eSn 18 25.10
TDS 2.45 19 P 18 03.80 0.1
eSn 18 32.10
MGR 2.80 4 P 18 08.10 -0.6
eSn 18 40.20
ORI 2.86 18 P 18 08.80 -0.7
SGO 3.21 360 P 18 14.50 0.0
BRT 3.82 22 ePn 18 21.19 -2.0
S.D. = 1.0 on 16 of 16 obs.

MAR 06, 1991 02h 18m 12.75± 0.21s
0.275 N ± 3.4km 124.717 E ± 5.7km
DEPTH = 101.5km (5 depth phases)
5.2mb (30 obs.)
MINAHASSA PENINSULA (265)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 31C
Centroid Location:
Origin Time 02:18:16.8 1.3
Lat 0.75N 0.09 Lon 124.86E 0.10
Dep 87.2 5.6 Half-duration 1.5
Moment Tensor; Scale 10**16 Nm
Mrr= 3.27 0.44 Mtt=-4.49 0.69
Mff= 1.22 0.94 Mrt=-0.31 0.46
Mrf= 3.72 0.44 Mtf= 4.67 0.50
Principal Axes:
T Val= 6.81 Plg=44 Azm=291
N 0.74 44 134
P -7.55 12 33
Best Double Couple:Mo=7.2*10**16
NP1:Strike= 82 Dip=51 Slip= 26
NP2: 335 70 138

MNI 1.17 6 ePd 18 35.00 -0.4
eS 18 52.50
DAV 6.82 7 eP 19 52.00 0.1
MKS 7.57 224 ePd 20 01.60 -0.5
e(S) 21 31.50
TSM 7.71 301 iPd 20 06.70 2.6
0.2s 160.00nm 6.3mb X
CGP 8.13 360 iPd 20 11.00 1.3
eS 20 36.00
MAP 10.01 356 iPd 20 37.00 1.8
1.0s 12.00nm 4.8mb
KKM 10.24 304 ePd 20 40.90 2.5
0.9s 131.20nm 5.8mb
PPR 11.16 328 iPc 20 53.00 2.4
1.0s 7.00nm 4.4mb
PGP 13.66 344 eP 21 27.00 3.6X

MTN 14.51 154 eP 21 33.00 -1.4
OCP 14.72 346 eP 21 43.00 5.9X
KNA 16.42 166 eP 21 57.00 -1.5
0.6s 55.00nm 5.0mb
BAG 16.54 346 eP 22 02.00 1.7
eS 25 03.00
CVP 17.55 351 eP 22 15.00 2.5
1.0s 5.50nm 3.7mb X
PIP 18.38 348 iPd 22 22.00 -0.6
KGM 21.46 275 eP 22 55.00 0.5
MBL 21.83 192 iPc 22 58.10 -0.1
0.6s 40.00nm 4.9mb
WRA 22.20 155 iPd 23 01.00 -0.8
0.7s 68.00nm 5.1mb
e 23 40.60
eS 26 58.10
WB2 22.20 155 iPd 23 01.00 -0.8
0.7s 68.00nm 5.1mb
e 23 40.60
eS 26 58.10
OIZ 23.67 323 eP 23 17.00 0.9
IPM 24.05 281 ePc 23 19.60 -0.2
0.6s 112.90nm 5.5mb
e 23 42.40 106km
NANU 24.40 201 eP 23 25.00 1.9
0.4s 13.00nm 4.7mb
OZH 25.23 347 eP 23 31.50 0.7
OIS 25.32 146 iPc 23 32.00 0.3
0.6s 77.00nm 5.3mb
i 23 54.30 103km
ASPA 25.42 160 iPc 23 32.80 0.2
8.0s 19.70nm 3.6mb X
Z 23s 0.40um 3.9MszX
iPP 24 07.30
iS 27 59.80
WARB 26.37 176 eP 23 41.50 0.1
0.6s 30.00nm 5.0mb
MEKA 27.39 192 eP 23 49.90 -0.7
KHT 29.58 300 eP 24 10.80 0.4
BDT 30.42 305 eP 24 14.20 -3.5X
0.8s 134.90nm 5.7mb
SSE 30.83 354 eP 24 17.00 -4.2X
Z 18s 0.40um 4.1Msz
eS 29 12.00
FORR 31.12 174 iPc 24 23.00 -0.7
0.4s 34.00nm 5.4mb
CHG 31.29 308 ePd 24 25.20 -0.3
1.0s 140.00nm 5.6mb
CHTO 31.29 308 iP 24 24.90 -0.6
1.1s 138.10nm 5.6mb
pP 24 44.60 85kmX
GYA 31.30 328 P 24 25.60 0.0
pP 24 47.00 94km
S 29 25.00
ScP 30 52.00
WHN 31.67 343 eP 24 28.00 -0.6
KMI 32.58 321 Pd 24 38.00 1.1
TKSJ 34.65 14 P 24 54.10 -0.3
WKYJ 35.27 16 P 24 59.70 0.0
YONJ 35.68 12 iPd 25 03.30 0.2
STK 35.75 155 iPc 25 17.20 13.5X
0.7s 14.50nm
e 25 32.60 60kmX
CD2 36.38 329 P 25 08.40 -0.7
TIA 36.44 350 eP 25 07.70 -1.8
TSRJ 36.62 15 P 25 10.70 -0.2
XAN 36.71 338 P 25 10.00 -1.8
CMS 37.39 150 eP 25 18.00 0.5
ADE 37.42 161 eP 25 19.20 1.4
0.8s 101.49nm 5.8mb
CHJJ 37.99 19 eP 25 20.00 -2.4
MTMJ 38.11 17 P 25 23.20 -0.4
MAT 38.19 18 iPd 25 23.10 -1.1
1.0s 51.00nm 5.4mb
eS 31 20.00
BRS 38.51 138 iPc 25 27.00 0.0
KAKJ 38.52 20 eP 25 25.70 -1.2
TIY 38.94 344 eP 25 27.00 -3.5X
NIIJ 39.08 18 eP 25 30.10 -1.4
YAMJ 40.26 19 eP 25 41.70 0.4
BJI 40.34 350 eP 25 40.50 -1.3
Z 28s 0.62um 4.3MszX
ScP 31 24.00
LZH 40.57 334 Pc 25 43.80 -0.2
2.0s 71.00nm 5.1mb
Z 25s 0.57um 4.3MszX
E 15s 0.32um

06d 02h

			pP	26 08.20	105km	
BFD	40.76	158	e(P)	25 46.00	0.7	
			i	26 09.40	100km	
SNY	41.38	359	eP	25 50.40	0.1	
	Z 30s		0.70um		4.4MszX	
OFUJ	41.62	20	P	25 53.10	0.7	
HHC	42.11	345	eP	25 55.40	-1.2	
CNB	42.22	150	eP	25 59.00	1.6	
TOO	42.27	155	eP	26 00.00	2.2	
			e	27 51.00		
LSA	43.34	315	P	26 07.00	-0.1	
CN2	43.34	1	eP	26 04.80	-1.5	
MDJ	44.36	5	Pd	26 14.60	0.0	
MRRJ	44.47	17	eP	26 16.30	0.9	
GTA	45.11	333	iPc	26 20.00	-0.8	
	1.0s		30.00nm		5.1mb	
			ScS	36 06.60		
HOOJ	45.13	19	eP	26 21.70	1.0	
KUSJ	46.25	20	eP	26 29.50	0.0	
GUN	46.25	310	Pc	26 29.60	-0.6	
ASAJ	46.48	18	P	26 31.50	0.1	
KKN	46.65	309	Pc	26 32.00	-1.2	
DMN	46.70	309	Pc	26 32.80	-0.9	
GKN	47.25	309	Pc	26 36.40	-1.5	
GBA	48.64	288	P	26 46.00	-2.6	
POO	53.11	293	iPd	27 17.30	-5.1X	
	0.9s		30.25nm		5.3mb	
NDI	53.43	306	iPc	27 21.20	-3.3X	
	0.8s		14.93nm		5.1mb	
WMO	54.47	328	P	27 31.00	-1.1	
	1.2s		40.00nm		5.3mb	
			eS	35 02.00		
QUE	62.34	304	eP	28 24.20	-3.0X	
TTA	84.87	27	eP	30 38.80	1.6	
NPA	85.69	255	eP	30 34.80	-7.3X	
BRW	86.07	18	eP	30 45.30	2.4	
IMA	86.34	24	eP	30 46.00	1.5	
	1.1s		9.40nm		4.7mb	
GAZ	87.84	307	iP	30 52.40	0.2	
PMR	87.92	29	eP	31 10.00	18.0X	
TOA	89.34	28	eP	31 00.00	1.1	
KEV	92.42	340	eP	30 59.00	-13.8X	
SOD	92.87	337	iP	31 13.60	-1.4	
KAF	93.70	332	iP	31 17.60	-1.3	
	0.6s		6.90nm		5.2mb	
INK	94.09	21	eP	31 20.50	-0.1	
NUR	94.72	331	eP	31 22.00	-1.6	
VRI	95.38	316	ePc	31 35.50	8.5X	
MBC	95.74	12	eP	31 28.50	0.5	
	1.0s		4.00nm		4.9mb	
BUL	95.83	250	iPd	31 30.20	0.5	
MLR	95.96	316	ePd	31 30.50	0.7	
UPP	98.29	331	iP	31 37.90	-1.8	
VAY	98.94	312	eP	31 41.40	-1.7	
KRA	99.25	321	eP	31 44.00	-0.4	
HFS	100.10	332	ePdiff	31 46.00	-2.0	
	1.5s		51.60nm		5.9mb	
DAG	100.40	352	iPdiff	31 47.80	-1.1	
	0.5s		4.93nm		5.4mb	
NB2	100.95	333	Pdiff	31 50.20	-1.6	
	0.9s		5.70nm		5.2mb	
BRG	102.77	323	iPdiff	32 00.10	0.0	
	1.1s		21.00nm		5.9mb	
CLL	103.21	323	ePdiff	32 02.00	0.0	
YKA	103.45	24	ePdiff	32 10.50	7.7X	
	0.8s		0.50nm		4.4mb	
BCAO	106.11	275	ePKPd	36 29.00	1.3	
	0.7s		5.00nm			
LPG	109.05	319	ePKP	36 32.80	0.1	
	0.7s		3.30nm			
LPL	109.06	319	ePKP	36 32.80	0.2	
	0.7s		2.75nm			
SSF	110.54	321	ePKP	36 34.30	-0.7	
BGF	111.16	321	ePKP	36 35.90	-0.3	
	0.7s		6.60nm			
TCF	111.67	321	ePKP	36 37.00	-0.2	
LSF	112.11	321	ePKP	36 37.40	-0.6	
FRB	115.38	6	ePKP	36 43.00	-0.7	
SCH	124.28	8	ePKP	37 02.00	0.9	
KIC	129.13	278	PKP	37 12.20	0.6	
TIC	129.38	279	PKP	37 12.80	0.7	
LIC	129.43	278	PKP	37 13.00	0.8	
LKO	129.59	283	PKP	37 12.50	0.0	
PPD	158.03	190	ePKP	38 01.60	2.1X	
			e	38 34.50		
CNCB	159.35	143	PKP	38 04.00	2.2X	
LPB	159.49	143	ePKP	38 03.00	1.2	
ZOBO	159.68	142	PKP	38 04.00	1.8	
PDCR	159.87	232	ePKP	38 03.70	2.0X	
SOB1	163.15	238	ePKP	38 07.10	2.0X	
			e	38 56.90		
SIV	163.37	160	PKP	38 06.80	1.6	
			i	38 57.60		

S.D. = 1.2 on 106 of 124 obs.

MAR 06, 1991 02h 49m 01.03± 1.22s
35.417 N ±11.7km 27.282 E ± 6.0km
DEPTH = 33.0km (normal)
DODECANESE ISLANDS (369)
MD 3.9 (ATH).

NPS	1.37	264	iPnd	49 24.00	-0.1	
YER	1.90	25	iPn	49 32.10	0.4	
CIN	2.27	16	eP	49 37.00	0.0	
ELL	2.51	57	iPn	49 41.70	1.2	
IZM	2.98	360	ePn	49 47.60	0.6	
BCK	3.36	52	iPn	49 53.20	0.7	
KHL	3.41	31	ePn	49 51.80	-1.5	
VLI	3.75	292	ePn	49 57.00	-1.0	
ATH	3.84	313	ePn	50 00.00	0.9	
PRK	3.91	348	ePn	50 01.20	1.0	
DST	4.32	14	eP	50 05.00	-1.1	
EZN	4.47	350	eP	50 08.30	0.1	
KCT	4.90	10	eP	50 14.00	-0.3	
BNT	4.96	6	iP	50 14.00	-1.1	
RDO	5.88	347	ePn	50 29.00	0.9	
BBTK	6.20	43	eP	50 32.00	-0.7	
KZN	6.54	320	ePn	50 37.50	0.0	

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

MAR 06, 1991 03h 19m 31.65± 0.78s
37.278 N ± 8.0km 15.925 E ± 5.6km
DEPTH = 24.1 ± 6.0 km
SICILY (398)
ML 2.6 (ROM). Felt (IV) in the Catanio-Siracusa area.

SOI	0.80	7	Pc	19 47.50	0.7	
			eSg	19 58.50		
MEU	0.81	258	iPg	19 46.29	-0.8	
			eSg	19 56.88		
ATN	0.95	338	ePg	19 49.18	-0.2	
			eSg	20 01.81		
MNO	1.17	304	ePn	19 52.68	-0.1	
			eSn	20 07.58		
GRI	1.59	14	ePn	19 59.34	0.8	
GIB	1.67	296	P	20 00.00	0.3	
			eSn	20 20.20		
FAI	1.79	271	P	20 02.10	0.6	
TDS	2.40	8	P	20 10.90	0.7	
ORI	2.81	8	P	20 16.90	0.9	
MGR	2.87	354	P	20 16.40	-0.4	
SGO	3.31	352	P	20 23.60	0.5	
LCI	3.44	27	P	20 24.70	-0.2	
			eSn	21 04.90		
BRT	3.73	15	ePn	20 27.04	-2.0	
VLS	3.81	75	eP	20 30.00	-0.2	
			eS	21 12.00		
OHR	5.38	43	eP	20 50.80	-1.8	
KZN	5.48	55	eP	20 54.00	0.1	
VLI	5.64	94	eP	20 57.20	1.1	

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

? MAR 06, 1991 03h 22m 45.40± 2.32s
20.990 S ±22.2km 169.352 E ±19.0km
DEPTH = 154.4 ± 18.1 km
4.5mb (6 obs.)
VANUATU ISLANDS (186)

DZM	2.91	248	iPd	23 32.30	-0.2	
			iS	24 14.00		
RMO	19.63	250	iPd	27 06.30	2.1	
	0.3s		3.00nm		4.2mb	
CNB	22.62	227	iPc	27 32.70	-1.1	
STK	27.05	241	eP	28 26.50	11.3X	
	1.4s		2.00nm			
WB2	32.77	266	iPd	29 06.00	0.1	
	0.5s		5.00nm		4.5mb	
WRA	32.78	266	iPd	29 06.00	0.0	
	0.5s		5.00nm		4.5mb	
ASPA	32.85	259	iP	29 06.20	-0.4	
MAT	64.34	332	iPc	33 05.80	-0.8	
	0.7s		6.85nm		4.7mb	
CHTO	79.48	295	eP	34 35.10	-1.4	
	0.9s		4.90nm		4.2mb	
LZH	83.97	312	eP	35 00.60	0.9	
	1.2s		21.00nm		4.8mb	
	Z 15s		0.29um		4.8MszX	
			pP	35 24.50	90kmX	
			sP	35 43.80		
BRG	144.47	333	iPKPc	42 00.40	-4.2X	
	0.7s		40.00nm			
SRO	144.50	326	iPKP	42 01.50	-3.2X	
CLL	144.54	334	iPKP	42 00.50	-4.2X	
	0.7s		32.00nm			
ZST	144.88	327	iPKP	42 02.80	-2.6X	
EKA	145.25	352	PKP	42 01.00	-4.8X	
	0.9s		6.60nm			
SKO	145.86	315	iPKPc	42 05.30	-2.0	
	0.8s		43.00nm			
GRF	146.51	334	ePKPc	42 06.90	-1.2	
BCAO	147.22	244	ePKPd	42 09.20	-1.1	
	0.8s		9.00nm			
ENN	147.55	340	ePKP	42 09.00	-0.7	
	0.7s		11.00nm			
VBY	147.60	325	i(PKP)	42 10.20	0.3	
LJU	147.62	326	ePKP	42 09.40	-0.6	
ABH	147.76	338	ePKP	42 09.66	-0.5	
CEY	147.88	326	ePKP	42 10.30	-0.1	
SNF	148.27	342	PKPc	42 10.50	-0.3	
DOU	148.55	341	PKP	42 11.90	0.6	
CDF	149.08	336	ePKP	42 12.00	-0.3	
	0.7s		9.90nm			
BSF	149.75	336	ePKP	42 13.60	0.2	
	0.6s		10.80nm			
HAU	149.77	337	ePKP	42 13.60	0.3	
	0.6s		10.80nm			
FLN	151.12	346	ePKP	42 16.00	0.8	
	0.6s		9.00nm			
LDF	151.19	345	ePKP	42 16.20	0.9	
LOR	151.27	339	ePKP	42 17.00	1.5	
	0.8s		8.75nm			
GRR	151.55	346	ePKP	42 17.10	1.2	
SSF	151.56	339	ePKP	42 17.80	1.8X	
	0.8s		6.70nm			
LPL	151.67	334	ePKP	42 18.70	2.2X	
	0.8s		6.05nm			
LPG	151.68	334	ePKP	42 18.70	2.1X	
	0.8s		8.05nm			
LPF	151.93	346	ePKP	42 18.10	1.7	
	0.5s		4.35nm			

S.D. = 1.1 on 27 of 36 obs.

% MAR 06, 1991 04h 12m 34.64± 0.74s
44.407 N ± 6.3km 7.305 E ± 8.4km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.5 (GEN).

STV	0.16	175	P	12 38.30	-0.1	
			S	12 40.76		
PZZ	0.18	304	P	12 38.81	0.1	
			S	12 41.68		
ENR	0.20	155	P	12 39.12	0.1	
			S	12 42.19		
ROB	0.42	105	P	12 43.32	0.1	
			S	12 49.58		
BHB	0.44	356	P	12 43.42	-0.1	
			S	12 49.68		

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

& MAR 06, 1991 05h 26m 53.60s
46.282 N 76.874 W
DEPTH = 18.0km (geophysicist)
SOUTHERN QUEBEC (447)
<OTT-P>. mbLg 3.9 (OTT). Felt at Blue Sea Lake, Fort-Coulonge and Waltham. Also felt at Chalk River and Pembroke, Ontario.

CKO	0.49	235	Pd	27 02.97	-0.5	
			S	27 09.81		
GRO	0.77	65	Pd	27 07.95	-0.3	
			S	27 18.21		
GAC	1.13	120	ePc	27 14.20	-0.1	
OTT	1.20	137	P	27 15.43	0.0	
			S	27 31.54		
EEO	1.56	284	Pd	27 20.77	0.2	
TRO	1.61	91	P	27 21.73	0.4	
WBO	1.70	138	P	27 23.27	0.7	
RSNY	2.39	136	eP	27 34.40	1.8	

WEO	2.50	206	P	27	34.24	0.2
DPO	2.86	81	P	27	38.29	-0.8
SWO	2.88	280	P	27	39.56	0.0
SZO	3.20	274	P	27	43.70	-0.4
HBVT	3.30	124	eP	27	46.00	0.5
WVLY	4.00	198	eP	27	54.00	-1.4
DAO	4.20	64	P	27	56.10	-2.2
BNH	4.30	111	eP	28	03.00	3.3
ELF	4.42	227	P	28	00.35	-1.0
			S	28	50.70	
DLA	4.79	226	P	28	04.30	-2.3
			S	28	55.75	
TBR	5.49	159	e(P)	28	16.00	-0.4
LVNJ	5.68	164	eP	28	17.00	-2.2
PNJ	5.72	159	Pn	28	23.80	4.1
CBM	6.07	81	eP	28	26.00	1.5
MNO	6.87	49	P	28	31.88	-4.0
JAO	7.57	5	P	28	41.10	-4.5
SCH	10.68	33	P	29	24.00	-4.6
	0.4s	20.00nm			5.8mb	
YKA	26.78	321	eP	32	36.10	2.2
	0.5s	0.10nm			2.7mb	
	26 obs. associated					

MAR 06, 1991 05h 50m 52.29± 0.95s
5.496 S ± 5.0km 152.038 E ± 6.7km
DEPTH = 46.6 ± 8.6 km
5.0mb (11 obs.) 4.3Msz (1 obs.)
NEW BRITAIN REGION (192)

RAB	1.30	6	iPd-	51	14.60	0.2
			iS	51	20.00	
PMG	6.21	231	iPd	52	23.50	-0.3
CTA	15.56	201	P	54	36.50	6.3X
RMO	21.11	188	iPd	55	34.90	-0.4
DZM	21.58	141	iPc	55	40.00	-0.2
BRS	21.79	178	iPc	55	42.00	-0.1
WB2	22.41	229	iPc	55	48.80	0.4
	0.5s	22.60nm			4.9mb	
WRA	22.42	229	iPc	55	48.80	0.4
	0.5s	22.60nm			4.9mb	
ASPA	25.13	222	iPc	56	15.30	0.6
			i	56	23.30	
			eS	00	42.60	
STK	28.01	199	eP	56	53.00	12.0X
	0.9s	2.30nm				
GYA	54.22	308	P	00	16.40	0.4
XAN	56.61	317	P	00	31.80	-1.3
CHG	57.61	296	eP	00	40.10	-0.2
CHTO	57.61	296	iP	00	40.00	-0.3
	1.3s	15.11nm			4.9mb	
			pP	00	47.20	24kmX
CD2	58.62	311	P	00	46.90	-0.4
LZH	61.20	316	Pc	01	04.80	-0.3
	1.2s	23.00nm			5.2mb	
Z	20s	0.24um			4.3Msz	
E	15s	0.24um				
			pP	01	15.50	36kmX
			PcP	01	48.00	
LSA	68.01	305	P	01	50.00	0.2
WMO	75.74	318	P	02	35.00	-0.1
GBA	76.42	285	P	02	40.00	0.7
ANM	76.66	17	e(P)	02	40.00	0.3
SVW	77.75	23	eP	02	47.10	1.2
	0.8s	26.21nm			5.3mb	
TTA	78.69	22	eP	02	51.50	0.4
SLKM	79.62	25	P	02	55.10	-0.9
PMR	80.63	25	eP	03	01.10	-0.2
	1.3s	52.50nm			5.3mb	
IMA	81.36	20	eP	03	05.90	0.6
	1.1s	12.00nm			4.8mb	
TOA	82.10	25	eP	03	10.10	0.9
FBA	82.81	22	eP	03	11.90	-0.8
	0.8s	27.59nm			5.3mb	
BALM	83.28	27	P	03	15.00	-0.3
INK	89.37	21	eP	03	44.50	-0.4
TNP	93.94	52	P	04	07.20	0.4
	0.9s	4.88nm			4.9mb	
MBC	94.97	14	eP	04	10.50	0.0
	1.0s	5.00nm			4.9mb	
SES	98.62	40	eP	04	29.00	1.4
BW06	99.88	48	P	04	32.00	-1.8
	0.9s	2.54nm			4.8mb	
BCAO	133.67	271	iPKPc	10	08.90	2.2X
	0.5s	5.00nm				
	S.D. = 0.7 on 31 of 34 obs.					

MAR 06, 1991 06h 28m 43.50± 1.03s
50.959 N ± 8.7km 6.098 E ± 9.0km
DEPTH = 10.0km (geophysicist)
GERMANY (543)

ENN	0.22	210	iPgd	28	47.40	-0.9
MEM	0.36	189	iPc	28	49.90	-0.9
BNS	0.68	89	iPc	28	55.30	-1.7
	0.8s	110.00nm				
			i	29	05.30	
WTS	1.13	23	iPn	29	04.70	0.1
	0.6s	12.00nm				
SNF	1.24	249	eP	29	23.40	16.9X
DOU	1.29	229	P	29	08.20	0.8
			iS	29	25.30	
RUP	1.40	154	ePg	29	10.14	1.0
ABH	1.42	139	ePg	29	09.45	0.0
TNS	1.67	115	eP	29	14.50	1.5
			e	29	37.60	
MOX	3.51	93	e(P)	30	30.00	50.7X
	S.D. = 1.3 on 8 of 10 obs.					

? MAR 06, 1991 07h 44m 58.34± 2.54s
9.415 N ±22.9km 70.485 W ±27.1km
DEPTH = 33.0km (normal)
VENEZUELA (101)

SDV	0.55	196	iPgc	45	09.70	-0.1
			iSg	45	16.60	
TOV	0.78	62	iPgc	45	11.10	-1.8
			iSg	45	20.40	
CEOS	2.16	100	eP	45	33.40	0.6
MORO	2.58	56	iP	45	40.50	1.7
OLLA	3.68	80	iP	45	53.80	-0.6
			eS	46	32.40	
LLAV	3.77	73	iP	45	55.80	0.1
			eS	46	40.70	
	S.D. = 1.5 on 6 of 6 obs.					

MAR 06, 1991 08h 02m 42.27± 0.44s
43.832 N ± 4.6km 16.634 E ± 5.1km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 3.5 (TTG), 3.3 (KBA). MD 3.5 (TRI). Felt at Sinj.

HVAR	0.67	192	iPgd	02	54.40	-1.1
			iSg	03	04.90	
BLY	1.00	23	Pn	02	59.70	-1.5
			Sn	03	13.70	
VBY	1.94	330	iPnd	03	16.80	1.2
			iSn	03	40.40	
			iSg	03	43.00	
HCY	1.94	135	ePn	03	16.00	0.4
			eSn	03	43.00	
NKY	2.00	120	ePn	03	18.00	1.4
			eSn	03	46.00	
PLE	2.07	103	ePn	03	21.00	3.4X
			eSn	03	51.50	
PTJ	2.12	347	iPn	03	16.90	-1.4
			Sn	03	41.20	
RIY	2.21	314	ePn	03	20.90	1.5
			iSn	03	51.80	
BDV	2.23	133	ePn	03	20.10	0.2
			eSn	03	51.00	
TTG	2.38	125	ePn	03	23.30	1.4
			eSn	03	54.20	
CEY	2.47	321	ePn	03	24.00	0.8
			eSn	03	57.90	
IVA	2.57	111	ePn	03	28.00	3.3X
			eSn	04	02.00	
LJU	2.67	327	e(Pn)	03	26.30	0.3
			e	03	28.90	
			eSn	03	59.30	
DUI	2.70	217	P	03	26.70	0.1
ARV	2.70	264	P	03	26.30	-0.2
			eSn	03	59.60	
PVY	2.74	116	ePn	03	30.00	2.8
			eSn	04	07.00	
TRI	2.77	314	ePn	03	27.90	0.4
			i(Pg)	03	33.70	
			iSg	04	09.00	
VOY	2.94	319	ePn	03	30.40	0.5
			eSn	04	07.00	
BRT	2.98	172	P	03	28.60	-1.9
			eSn	04	04.90	
ASS	2.99	257	P	03	31.00	0.4
			eSn	04	06.80	
UZD	3.08	26	e(Pn)	03	33.00	1.1
MNS	3.24	245	P	03	34.30	0.2
CRE	3.40	268	P	03	37.60	1.1
SGO	3.42	197	P	03	34.20	-2.4
FVI	3.88	317	P	03	43.40	0.3
BZS	3.97	62	ePc	03	42.50	-2.0
KBA	3.99	326	iPnd	03	44.80	-0.1
			i	03	48.80	
			i	03	57.00	
			i	04	02.40	
			iSn	04	31.60	
			i	04	34.70	
SKO	3.99	116	iP	04	42.50	57.7X
			i	04	46.50	
OHR	4.11	130	ePn	03	41.20	-5.3X
SRO	4.15	16	iP	03	44.60	-2.4
CTI	4.17	304	P	03	46.60	-0.9
			eSn	04	35.20	
VAY	5.05	118	ePn	04	12.50	12.7X
	S.D. = 1.4 on 27 of 32 obs.					

& MAR 06, 1991 08h 51m 24.90s
34.380 N 119.450 W
DEPTH = 6.0km (geophysicist)
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 2.4 (PAS). Felt at Carpinteria.

ABL	0.51	22	iPd	51	34.20	-0.9
BCH	0.96	327	eP	51	42.20	-1.4
MWC	1.16	97	eP	51	45.50	-1.6
PEC	1.96	104	eP	51	57.00	-2.1
	4 obs. associated					

MAR 06, 1991 10h 44m 52.04± 0.30s
16.689 N ± 5.9km 94.516 W ± 4.3km
DEPTH = 81.7km (8 depth phases)
4.8mb (29 obs.)
OAXACA, MEXICO (60)
Felt (III) at Oaxaca.

OXX	2.15	281	iP	45	25.00	-1.8
			iS	45	47.00	
TPX	2.80	129	iP	45	37.80	2.2
			iS	46	11.00	
LVVM	3.55	329	(P)	45	43.70	-2.1
			(S)	46	20.50	
IISM	3.56	310	(P)	45	45.00	-1.0
			iS	46	30.50	
PUE	4.21	304	iP	45	56.00	0.5
			iS	46	42.00	
IIT	4.29	303	iPd	45	57.80	1.2
			iS	46	42.50	
PPM	4.57	302	iP	46	01.00	0.2
			(S)	46	52.50	
III	5.01	290	iPc	46	05.50	-1.1
			(S)	46	58.00	
ACX	5.12	273	iPc	46	03.00	-4.9X
			(S)	47	04.00	
UNM	5.16	301	(P)	46	08.50	-0.2
CRX	5.61	300	(P)	46	16.50	1.5
MRX	7.02	296	iP	46	34.50	0.4
CGX	9.01	291	(P)	47	01.70	-0.1
MEO	18.38	349	iPd	49	03.00	0.0
BIX	19.25	357	e(P)	49	23.80	11.1X
RSCP	20.45	21	P	49	26.00	0.7
PRM	20.48	30	P	49	24.20	-1.2
ELC	21.04	12	P	49	31.00	-0.1
ALQ	21.08	332	eP	49	34.00	2.2
	0.9s	16.39nm			4.4mb	
			e	49	48.50	64kmX
ANMO	21.09	332	eP	49	33.50	1.7
	1.2s	6.64nm			3.8mb	
			pP	49	49.10	70kmX
JSC	21.18	32	P	49	31.40	-1.1
TKL	21.18	25	P	49	31.20	-1.4
GLA	24.52	315	P	50	05.80	0.5
GOL	24.80	340	eP	50	08.90	0.8
	1.1s	26.60nm			4.6mb	
			pP	50	27.10	81km
PV09	25.23	332	eP	50	12.70	0.5
			pP	50	31.50	84km
TPC	25.97	316	eP	50	36.00	17.2X
PLM	26.09	314	eP	50	40.00	19.9X
RVR	26.80	314	eP	50	45.00	18.6X
GSC	27.18	317	eP	50	47.00	17.1X

06d 10h

SBB	27.50	315	eP	50	49.00	16.2X	CDF	85.28	41	eP	57	21.60	0.5	? MAR 06, 1991 11h 33m 18.80± 0.99s									
CLC	28.01	317	eP	50	56.00	18.6X	TNS	85.38	39	ePd	57	23.00	1.4	33.395 N ± 8.3km 104.349 E ±14.4km									
BW06	29.00	337	eP	50	46.60	0.2	LKO	86.29	81	PKP	57	26.70	0.0	DEPTH = 10.0km (geophysicist)									
	1.0s	1.25nm				3.5mb X	LMR	86.48	46	eP	57	27.00	-0.1	GANSU PROVINCE, CHINA (322)									
		pP	57	04.20				0.6s	8.10nm			5.0mb		ML 3.7 (BJI).									
TNP	29.19	321	P	50	48.00	-0.1	TIC	87.64	84	PKPc	57	35.40	2.2										
	1.0s	6.25nm				4.2mb	LIC	87.75	84	PKPc	57	34.60	0.9	CD2	2.53	192	Pn	34	00.40	-0.2		
		pP	51	06.50	80km		KIC	87.99	84	PKPc	57	35.40	0.6				Sn	34	34.00				
KVN	30.34	322	P	50	58.90	0.6	STK	127.21	242	ePKP	04	01.00	11.9X	LZH	2.72	351	Pg	34	03.50	0.1			
LRM	32.68	336	eP	51	18.60	-0.2		0.4s	3.20nm								Sg	34	38.00				
		e	51	38.20	84km		WB2	133.62	258	iPKPc	03	59.40	-2.2X	XAN	3.86	79	iPnc	34	19.50	-0.1		
GAC	33.02	25	eP	51	41.00	19.7X		0.4s	9.80nm								Pg	34	30.50				
	1.0s	6.00nm					WRA	133.63	258	iPKPc	03	59.40	-2.2X				Sn	35	04.00				
SES	36.16	342	eP	51	49.00	0.7		0.4s	9.80nm								Sg	35	24.60				
NEW	36.53	334	eP	51	51.70	0.3	ASPA	134.20	253	ePKP	04	00.50	-2.1X	GTA	7.03	330	Pnd	34	55.00	-9.4X			
	1.2s	4.17nm				4.2mb	HYB	145.43	12	ePKP	04	21.00	-2.0	GYA	7.20	163	Pn	35	07.00	0.2			
		pP	52	10.80	78km					e	04	44.50					Sn	36	26.00				
PNT	38.39	333	eP	52	27.00	20.0X	MEKA	147.82	246	ePKP	04	27.60	1.0	S.D. = 0.3 on 4 of 5 obs.									
	0.7s	8.00nm					MUN	148.28	236	ePKP	04	28.00	0.8	----------									
FFC	38.40	353	eP	52	07.00	0.1	BAL	148.34	238	ePKP	04	28.50	1.1	MAR 06, 1991 12h 37m 04.68± 0.67s									
	0.4s	5.00nm				4.8mb	GBA	148.87	15	PKPd	04	26.80	-1.7	44.630 N ± 5.3km 8.116 E ± 4.4km									
EDM	39.33	342	eP	52	34.00	19.2X		0.8s	4.70nm					DEPTH = 10.0km (geophysicist)									
ZOBO	41.83	140	P	52	35.00	-1.3	KOD	152.10	17	ePKP	04	40.00	6.2X	NORTHERN ITALY (545)									
LPB	42.05	140	eP	52	37.00	-0.9	S.D. = 1.0 on 76 of 94 obs.							ML 2.3 (GEN).									
CNCB	42.33	141	Pc	52	40.00	-0.4	----------																
SIV	46.29	133	P	53	02.00	-9.5X	MAR 06, 1991 11h 10m 24.32± 0.90s																
YKA	47.88	348	eP	53	21.50	-1.9	8.827 N ± 6.3km 122.897 E ± 8.4km																
	0.5s	1.50nm				4.2mb	DEPTH = 49.5 ± 10.2 km																
FRB	50.30	15	eP	53	41.00	-0.9	4.5mb (11 obs.) 3.9Msz (1 obs.)																
INK	57.19	344	eP	54	31.50	-1.0	MINDANAO, PHILIPPINE ISLANDS (259)																
KLU	57.50	334	P	54	34.70	-0.2																	
		pP	54	55.80	84km		MAP	1.83	36	iPd	10	53.00	-0.9										
SOB1	58.95	112	eP	54	44.30	-1.3				iS	11	13.00											
FBA	59.83	337	P	54	49.20	-1.7	DAV	3.17	123	eP	11	14.10	1.2										
	1.0s	12.00nm				5.0mb	PPR	4.22	283	ePc	11	26.50	-1.2										
		pP	55	10.00	81km					iS	12	17.00											
MBC	60.97	353	eP	54	58.00	-0.5	PGP	5.02	338	ePc	11	38.00	-1.1										
	0.6s	8.00nm				5.0mb	MNI	7.59	165	eP	12	15.00	0.0										
		pP	55	19.00	82km		BAG	7.87	344	eP	12	20.90	1.8										
VAO	60.98	129	eP	54	58.10	-1.2	IPM	22.12	260	ePc	15	17.70	0.4										
PDCR	61.97	114	eP	55	04.40	-1.7	SSE	22.21	356	P	15	19.00	1.0										
DAG	70.60	14	eP	56	20.00	20.0X		1.0s	12.00nm			4.3mb											
	0.8s	2.99nm					Z	20s	0.50um			3.9Msz											
EKA	77.22	36	Pc	56	38.80	0.2	NJ2	23.41	351	Pd	15	31.30	1.6										
	0.5s	4.00nm				4.6mb	CHG	25.26	296	eP	15	49.00	1.3										
LPF	80.06	43	eP	56	54.00	-0.2	CHTO	25.26	296	eP	15	49.00	1.3										
	0.5s	14.60nm				5.1mb		1.0s	4.00nm			3.9mb											
GRR	80.10	42	eP	56	54.40	0.0	XAN	28.20	335	P	16	13.40	-1.1										
	0.5s	13.10nm				5.1mb	PMG	30.19	126	eP	16	48.00	15.5X										
FLN	80.25	42	eP	56	55.40	0.2	WRA	30.73	159	iPc	16	35.80	-1.4										
	0.5s	10.95nm				5.0mb		0.5s	4.30nm			4.4mb											
Z	20s	0.10um				4.2Msz				e	16	44.50											
LDF	80.52	42	eP	56	56.60	0.0				e	17	50.10											
	0.7s	13.25nm				5.0mb	WB2	30.73	159	iPc	16	35.80	-1.4										
MFF	81.00	44	eP	56	59.20	0.0		0.5s	4.30nm			4.4mb											
LFF	82.04	46	eP	57	04.70	0.1				e	16	44.50											
	0.4s	8.00nm				5.0mb				e	17	50.10											
LPO	82.41	46	eP	57	06.50	-0.1	BJI	31.66	350	eP	16	44.50	-0.6										
	0.5s	5.10nm				4.7mb		1.0s	9.00nm			4.5mb											
RJF	82.47	45	eP	57	06.80	-0.1	LZH	32.21	330	eP	16	49.50	-0.7										
	0.5s	4.35nm				4.6mb		1.2s	21.00nm			4.8mb											
Z	20s	0.13um				4.3Msz	Z	14s	0.24um			4.0MszX											
TCF	82.66	44	eP	57	07.70	-0.2	N	10s	0.24um														
	0.5s	5.10nm				4.7mb				pP	16	57.80	29kmX										
MAF	82.91	44	eP	57	09.00	-0.2	ASPA	34.04	162	eP	17	05.80	-0.2										
NB2	82.94	28	P	57	10.40	1.3	WARB	34.99	174	iPc	17	14.90	0.8										
	0.7s	3.60nm				4.4mb		0.6s	21.00nm			5.2mb											
BGF	83.00	44	eP	57	09.40	-0.2	LSA	36.26	309	eP	17	27.00	1.6										
	0.5s	7.30nm				4.9mb	GTA	36.80	330	eP	17	29.00	-0.4										
DOU	83.07	40	P	57	11.00	1.1		1.2s	10.00nm			4.6mb											
	0.4s	14.30nm				5.3mb	GUN	39.71	303	P	17	52.84	-1.3										
AVF	83.27	43	eP	57	10.90	-0.1		1.0s	56.00nm			5.4mb											
	0.5s	2.55nm				4.4mb	PKI	39.97	303	P	17	55.90	-0.5										
SSF	83.29	43	eP	57	11.20	0.1	KKN	40.16	303	P	17	56.14	-1.6										
	0.8s	10.05nm				4.8mb	GKN	40.77	303	P	18	02.14	-0.5										
LOR	83.46	43	eP	57	11.90	-0.1	HYB	43.93	286	eP	18	30.10	1.6										
	0.7s	8.80nm				4.8mb	STK	44.25	157	eP	18	43.70	12.9X										
Z	21s	0.10um				4.2Msz		0.9s	4.80nm														
L8F	83.62	43	eP	57	12.70	-0.1				i	18	51.10											
	0.7s	7.15nm				4.8mb	GBA	44.80	280	P	18	38.00	2.6X										
SMF	83.63	43	eP	57	12.50	-0.3		1.5s	14.80nm			4.6mb											
	0.6s	5.40nm				4.7mb	ADE	46.05	162	eP	18	46.30	1.2										
APO	84.36	28	eP	57	17.10	0.9	WMO	46.39	325	eP	18	48.00	0.2										
	0.7s	18.30nm				5.2mb	YKA	96.40	23	eP	23	48.20	-0.9										
MAU	84.83	41	eP	57	19.10	0.3		1.2s	1.10nm			4.3mb											
	0.5s	6.55nm				4.9mb	S.D. = 1.2 on 28 of 31 obs.																
ABH	84.95	39	eP	57	20.81	1.4	----------																

• MAR 06, 1991 13h 08m 02.90± 0.68s																							
57.179 S ± 8.7km 66.972 W ±19.2km																							
DEPTH = 10.0km (geophysicist)																							
4.9mb (4 obs.) 4.5Msz (2 obs.)																							
DRAKE PASSAGE (149)																							
CENTROID, MOMENT TENSOR (HRV)																							
Dota Used: GDSN																							
L.P.B.: 15S, 27C																							
Centroid Locotion:																							
Origin Time 13:08:10.0 0.6																							
Lot 57.22S 0.08 Lon 66.38W 0.19																							
Dep 15.0 FIX Holf-durotion 1.5																							
Moment Tensor; Scole 10**16 Nm																							
Mrr=-0.50 0.40 Mtt= 2.29 0.49																							
Mff=-1.79 0.65 Mrt=-1.76 1.30																							
Mrf=-1.15 1.58 Mtf= 5.87 0.37																							
Principal Axes:																							
T Val= 7.05 Plg=16 Azm=145																							
N -1.09 74 325																							
P -5.96 0 55																							
Best Double Couple:Mo=6.5**16																							
NP1:Strike=189 Dip=79 Slip= 169																							
NP2: 281 79 11																							

AIA	8.20	172	eP	10	05.90	1.2																	
LPA	23.10	19	eP-	13	12.00	2.5																	
		eS	17	24.00																			
LNV	23.42	351	ePc	13	12.50	-0.1																	
PCH	23.68	353	ePc	13	16.20	0.9																	
SAN	23.86	352	eP	13	15.50	-1.4																	
PEL	24.17	352	ePc	13	24.00	4.0X																	
ROCH	24.37	352	eP	13	23.00	0.9																	
PPD	36.93	25	eP	15	13.60	0.0																	
VAO	37.12	31	eP	15	05.30	-9.9X																	
CNCB	40.31	359	Pc	15	43.90	1.4																	
LPB	40.58	358	P	15	44.00	-0.6																	
			LR	31	30.00																		
ZOBO	40.85	358	iPc	15	47.20	0.3																	

```
      Z  18s      1.08um          4.8Msz
                   LR     32 00.00
SIV     41.35    9 Pc     15 49.60   -0.8
BAO     43.88   27 eP     16 11.00   -0.1
SOB1    51.95   33 eP     17 12.90   -1.1
SLR     71.51  109 iPc    19 25.50   -0.3
LIC     80.54   63 Pd     20 16.20   -0.4
        0.5s      6.50nm          4.9mb
      Z  20s      0.13um          4.3Msz
KIC     80.80   63 Pd     20 17.40   -0.6
        0.6s      6.50nm          4.8mb
TIC     80.91   63 P      20 17.98   -0.6
        0.7s      6.50nm          4.8mb
LKO     83.16   61 P      20 30.20   -0.1
        0.6s     12.00nm          5.2mb
BCAO    91.25   84 iPd    21 11.00    1.4
        0.2s     16.00nm          6.0mb X
                  i      21 34.00
KBA    123.34   54 iPKPc  26 52.80   -8.0X
        1.2s     24.30nm
                  i      28 31.50
                  i      28 36.10
YKA    124.92  335 ePKP   27 01.40   -1.7
        0.6s      0.30nm
M8C    137.29  344 ePKP   27 27.00    0.6
        1.0s      5.00nm
DMN    144.45  134 PKP    27 38.80   -2.1X
PKI    144.54  135 PKP    27 39.16   -2.0X
GKN    144.62  133 PKP    27 38.78   -2.3X
KKN    144.68  134 PKP    27 39.16   -2.1X
GUN    145.02  135 PKP    27 40.66   -1.3
     S.D. = 1.1   on  22 of  29 obs.
-------------------------------------------
&  MAR  06, 1991  13h 13m 18.23s
   62.931 N          151.150 W
   DEPTH = 116.0km
 CENTRAL ALASKA                      (  1)
     <AEIC>.

TRF     0.65   36 ePc    13 36.83   -0.5
                eS     13 51.60
CUT     0.67  142 iPc    13 36.97   -0.2
HUR     0.69   85 ePc    13 36.94   -0.5
SKT     0.97  191 iPd    13 39.61   -0.3
                eS     13 55.68
RND     1.15   64 ePc    13 41.33   -0.5
MCK     1.28   50 ePc    13 42.97   -0.3
PWA     1.42  155 ePd    13 44.65   -0.1
BWN     1.46   30 eP     13 45.38    0.1
SUA     1.49  172 ePd    13 45.53   -0.2
                S      14 07.73
GHO     1.56  137 ePc    13 46.11   -0.5
                eS     14 08.20
NCG     1.60  198 iPd    13 46.71   -0.4
PLRM    1.64  144 ePc    13 46.66   -0.8
CRP     1.74  196 ePd    13 48.47   -0.3
BGL     1.77  200 ePd    13 49.15   -0.1
CKL     1.83  198 ePd    13 49.55   -0.4
PMS     1.85  155 ePc    13 49.37   -0.7
                eS     14 12.95
NEA     1.89   28 eP     13 49.58   -1.0
KNK     1.98  139 ePc    13 50.67   -1.1
WRH     2.06   40 ePd    13 51.96   -0.8
NKA     2.20  181 ePd    13 56.83    2.4
TTA     2.22  272 eP     13 54.28   -0.6
CCB     2.27   39 ePd    13 54.44   -1.0
RDS     2.32   34 ePd    13 55.18   -0.9
HDA     2.39   50 ePc    13 56.45   -0.5
MDM     2.41   31 iPd    13 56.28   -1.0
RDT     2.44  195 ePd    13 56.90   -0.8
TOA     2.45  108 ePc    13 57.41   -0.5
FBA     2.47   35 ePd    13 57.08   -1.0
SLKM    2.47  169 eP     13 57.60   -0.5
NCT     2.52  200 eP     13 58.37   -0.5
DDM     2.53   68 eP     13 59.18    0.2
RDN     2.54  198 ePd    13 58.56   -0.6
REF     2.56  197 ePd    13 58.88   -0.5
RS2     2.59  198 eP     13 59.59   -0.3
RSO     2.59  198 eP     13 59.48   -0.4
PAX     2.60   87 ePc    13 59.06   -0.8
SDG     2.61   96 ePc    13 59.28   -0.7
RED     2.64  198 eP     14 00.30    0.0
GLM     2.65   37 ePd    13 59.49   -1.0
SVW     2.79  231 ePd    14 01.59   -0.8
TZL     2.80  106 ePc    14 01.86   -0.6
GLI     2.81  135 ePc    14 01.12   -1.5
KLU     2.84  118 ePc    14 01.16   -1.9
VZW     2.87  129 eP     14 01.44   -1.9
NNL     2.90  181 eP     14 04.80    1.1
VLZ     2.90  126 eP     14 01.38   -2.3
SEW     2.95  163 eP     14 02.84   -1.6
KNIM    3.06  146 ePc    14 03.29   -2.6
DOT     3.28   74 ePd    14 07.64   -1.2
HOM     3.29  184 eP     14 09.51    0.5
MTU     3.40  149 ePc    14 08.22   -2.2
CNPM    3.42  181 ePd    14 10.15   -0.6
PDB     3.48  206 ePd    14 10.86   -0.6
TMW     3.72   80 eP     14 13.30   -1.5
GLB     3.75  110 ePc    14 13.54   -1.7
MCNL    4.07  204 eP     14 19.18   -0.3
CDD     4.20  198 eP     14 20.57   -0.7
SYI     4.38  189 eP     14 22.89   -0.8
TGL     4.51  115 eP     14 23.36   -2.2
BALM    4.57  111 ePc    14 23.97   -2.4
        60 obs. associated
-------------------------------------------
*  MAR  06, 1991  13h 32m 42.03± 0.92s
   11.101 S ±10.7km  163.142 E ±16.9km
   DEPTH =  33.0km  (normal)
   4.7mb ( 10 obs.)  4.6Msz (  1 obs.)
 SOLOMON ISLANDS                     (193)

HNR     3.56  298 eP     33 38.00    1.7
                eS     34 25.00
CTA    18.54  239 iPd    37 02.20    4.0X
        1.5s     75.00nm          4.7mb
RMO    20.46  220 iPd    37 20.50    0.9
COO    22.02  207 eP     37 37.00    1.6
CMS    25.85  216 eP     38 13.00    0.7
STK    28.69  221 eP     38 52.10   13.8X
        1.1s      6.50nm
                eS     43 54.30
WB2    29.06  249 iPd    38 39.90   -1.8
        0.8s      5.00nm          4.3mb
WRA    29.07  249 iPd    38 39.90   -1.9
        0.8s      5.00nm          4.3mb
ASPA   30.50  242 eP     38 53.00   -1.6
      Z  23s      0.30um          3.9MszX
ADE    32.53  219 eP     39 13.00    0.7
BJI    66.94  322 eP     43 44.00   10.5X
CHTO   69.92  295 eP     43 52.30   -0.1
        1.0s      1.25nm          3.9mb
LZH    72.92  313 eP     44 10.80    0.5
        1.5s     25.00nm          5.0mb
      Z  20s      0.34um          4.6Msz
                  i      44 14.60
                  pP     44 23.50   43kmX
                  i      44 28.00
                  sP     44 37.00
GUN    84.12  300 P      45 12.66    0.7
PKI    84.43  299 P      45 13.20   -0.2
        0.9s      5.00nm          4.7mb
KKN    84.60  300 P      45 14.16    0.0
        0.9s     12.00nm          5.1mb
DMN    84.70  299 P      45 14.56   -0.1
        0.9s     33.00nm          5.5mb
GKN    85.20  300 P      45 16.74   -0.3
        0.9s     18.00nm          5.3mb
YKA    96.20   28 eP     46 07.50   -0.2
        0.8s      0.60nm          4.1mb
BCAO  144.34  262 iPKPc  52 17.00   -0.5
        0.2s      8.00nm
     S.D. = 1.1   on  17 of  20 obs.
-------------------------------------------
&  MAR  06, 1991  14h 36m 59.07s
   34.445 N          106.876 W
   DEPTH =   7.6km
 NEW MEXICO                          (496)
     <SNM>. MD 2.5 (SNM).

BDNM    0.06  323 P      37 01.40    0.5
LAZ     0.22  259 P      37 03.55   -0.3
LPM     0.24  123 P      37 03.80   -0.4
BMNM    0.36  242 P      37 06.25   -0.2
BNM     0.37  146 P      37 06.00   -0.6
WTX     0.38  189 P      37 06.20   -0.6
CRNM    0.51  167 P      37 08.70   -0.6
ALQ     0.60   35 iPd    37 10.60   -0.6
ANMO    0.61   35 iPd    37 10.59   -0.7
                S      37 18.97
        9 obs. associated
-------------------------------------------
?  MAR  06, 1991  15h 37m 44.24± 0.91s
    9.127 S ±28.8km  123.503 E ±25.2km
   DEPTH = 222.4 ± 12.3 km
   4.1mb (  3 obs.)
 TIMOR                               (289)

KUPT    1.02  174 ePc    38 16.70    0.0
                eS     39 18.40
MTN     8.35  117 eP     39 43.00    0.0
        0.3s    146.00nm          5.6mb X
WB2    15.02  137 iPc    41 07.50    0.4
        0.7s      5.70nm          4.1mb
                iS     43 36.80
ASPA   17.55  147 eP     41 41.30    4.9X
                i      42 38.50
STK    28.19  146 iPc    43 17.70   -0.6
        0.6s      6.00nm          4.5mb
CHTO   36.84  319 eP     44 30.90   -2.1
        0.7s      0.79nm          3.4mb
GUN    51.77  317 P      46 32.20    0.3
PKI    51.88  316 P      46 33.00    0.4
KKN    52.10  316 P      46 34.80    0.6
DMN    52.11  316 P      46 35.20    0.9
GKN    52.68  316 P      46 38.30    0.0
     S.D. = 1.0   on  10 of  11 obs.
-------------------------------------------
   MAR  06, 1991  15h 44m 25.93± 0.22s
   30.515 S ± 4.2km  178.589 W ± 4.9km
   DEPTH = 227.5km  ( 11 depth phases)
   5.5mb ( 32 obs.)
 KERMADEC ISLANDS                    (178)
     CENTROID, MOMENT TENSOR         (HRV)
     Data Used: GDSN
     L.P.B.: 20S, 43C
     Centroid Location:
     Origin Time          15:44:33.5 0.5
     Lat 29.68S 0.06 Lon 178.92W 0.05
     Dep 219.1 2.2 Half-duration  2.4
     Moment Tensor;   Scale 10**17 Nm
       Mrr= 0.69 0.08  Mtt= 0.86 0.16
       Mff=-1.55 0.15  Mrt=-1.17 0.08
       Mrf= 2.12 0.09  Mtf= 0.01 0.12
      Principal Axes:
       T  Val=  2.57  Plg=50  Azm=217
       N        0.36       21       334
       P       -2.93       33        79
     Best Double Couple:Mo=2.8*10**17
      NP1:Strike=219 Dip=23 Slip= 157
      NP2:        331     81        68

HBZ     7.52  199 P      46 16.00    2.3
PUZ     7.98  198 P      46 21.40    1.7
                S      47 56.40
NOZ     8.55  198 eP     46 28.50    1.4
WLZ     8.75  212 eP     46 35.40    5.7X
PGZ    10.91  201 P      46 57.40    0.2
MNG    11.17  204 P      46 59.40   -1.2
KIW    11.59  205 P      47 04.50   -1.4
MTW    11.65  203 P      47 04.80   -1.8
CAW    11.75  204 P      47 06.10   -1.8
BLW    11.85  202 eP     47 07.90   -1.2
WDW    11.92  204 P      47 07.70   -2.3
MOW    11.97  203 P      47 09.40   -1.2
MRW    11.99  205 P      47 08.90   -2.0
                eS     49 25.40
WEL    12.02  205 eP     47 14.00    2.8
                S      49 24.00
TCW    12.14  206 P      47 10.90   -1.8
                eS     49 28.00
SVA    12.63  347 eP     47 12.70   -6.3X
KHZ    13.45  206 eP     47 28.50   -0.6
                eS     49 54.30
LTZ    14.26  208 eP     47 39.20    0.0
                S      50 10 10
DZM    15.83  299 iPc    47 57.70   -0.7
MHZ    17.37  210 P      48 16.70    1.0
MMCZ   17.39  210 eP     48 17.10    1.2
MSZ    17.68  213 eP     48 21.60    2.8
                S      51 30.10
COO    25.39  262 iPd    49 38.20    3.9X
        0.4s     27.00nm          5.2mb
CNB    27.26  251 eP     49 55.00    3.9X
        0.6s     43.00nm          5.3mb
RMO    28.92  270 iPd    50 07.30    1.3
        0.5s    118.00nm          5.8mb
AFR    29.22   70 iP     50 08.00   -0.6
        1.2s    250.00nm          5.8mb
PAE    29.32   71 iP     50 09.00   -0.4
        1.2s    170.00nm          5.6mb
```

06d 15h

			ipP	50	53.00	219km				S	06	24.00			0.8s	17.20nm							
PPT	29.37	71	iP	50	09.50	-0.4				sS	08	00.00		BCAO	149.44	215	iPKPd	03	48.50	3.2X			
	1.2s	190.00nm				5.6mb	IPM	84.05	279	ePc	56	32.30	-0.2		0.9s	171.00nm							
			ipP	50	53.70	220km		0.6s	211.50nm				6.1mb				i	03	53.10				
TVO	29.52	71	iP	50	11.00	-0.4				e	57	29.20	236km				i	03	59.40				
	1.2s	180.00nm				5.6mb	GZH	84.27	301	Pd	56	34.00	0.7				i	07	23.50				
TAU	29.79	236	eP	50	18.00	4.6X	OIZ	84.58	296	eP	56	35.20	0.2				i	07	39.00				
			e	51	06.00	241kmX	PRS	85.45	43	e(P)	56	39.00	0.0	HRI	150.80	284	ePKP	03	54.00	7.1X			
			e	53	14.00		PRI	85.74	43	e(P)	56	41.00	0.5	8HL	150.91	286	PKP	03	52.00	5.0X			
TOO	30.45	247	ePd	50	23.70	4.3X	SNG	85.74	281	eP	56	42.20	1.4	JVI	151.01	282	ePKP	03	55.00	7.9X			
PMO	32.10	68	iP	50	33.40	-0.4		1.2s	1781.25nm				6.8mb X	RMN	151.44	279	ePKP	03	55.50	7.6X			
	1.2s	90.00nm				5.3mb	NJ2	85.93	311	Pc	56	42.00	0.6	LIC	155.09	165	PKP	03	56.64	3.4X			
VAH	32.19	69	iP	50	34.10	-0.4		1.0s	100.00nm				5.6mb	KIC	155.29	165	PKP	03	56.76	3.2X			
	1.2s	135.00nm				5.5mb	MHC	85.99	42	eP	56	42.30	0.6	TIC	155.50	164	PKP	03	57.10	3.3X			
TPT	32.34	68	iP	50	35.50	-0.3	BKS	86.02	41	ePc	56	43.10	1.4	MLR	155.69	315	ePKPd	04	06.00	12.6X			
	1.2s	100.00nm				5.3mb		0.9s	131.00nm				5.8mb	KRA	156.02	330	ePKP	04	22.00	28.6X			
			ipP	51	23.00	234km	MWC	86.05	46	eP	56	43.00	0.8	CLL	157.51	341	e(PKP)	04	07.00	11.7X			
RUV	32.41	69	iP	50	26.10	-10.4X	PLM	86.23	48	eP	56	44.00	0.9				e	05	22.00				
	1.2s	105.00nm					RVR	86.32	47	eP	56	44.00	0.7	LKO	158.14	161	PKPd	04	00.50	3.4X			
			ipP	51	23.50	291kmX	S8B	86.50	46	eP	56	44.00	-0.2		S.D. = 1.1		on 102 of 139 obs.						
BFD	32.79	248	eP	50	43.00	3.4X	FRI	86.88	43	ePc	56	45.50	-0.3	---									
			i	53	21.00					e	57	41.40	230km	*	MAR 06, 1991 16h 04m 08.81± 0.84s								
OLP	32.79	267	eP	50	40.00	0.2	CMB	87.19	42	eP	56	46.60	-0.8		35.874 N ±12.8km 80.955 E ±21.1km								
CTA	33.31	280	iPc	50	44.20	-0.1				e	57	43.00	232km		DEPTH = 33.0km (normal)								
	0.6s	101.33nm				5.6mb	TPC	87.24	47	eP	56	48.00	0.3		4.1mb (1 obs.)								
			iS	55	46.00		CLC	87.38	45	eP	56	48.00	-0.4		KASHMIR-TIBET BORDER REGION (304)								
STK	33.96	257	iPc	51	06.30	16.6X				e	57	41.00	216kmX										
	1.2s	88.30nm					GSC	87.53	46	eP	56	49.00	-0.2	GKN	8.45	157	P	06	11.30	-0.7			
			iScP	57	03.20					e	57	44.00	225km	KKN	8.86	154	P	06	18.00	0.3			
			iS	57	23.30		ORV	87.59	41	e(P)	56	49.40	0.2		0.4s	9.00nm				5.2mb X			
			eScS	01	02.20		WDC	87.72	39	ePd	56	49.70	-0.1	DMN	8.96	156	P	06	18.46	-0.8			
ADE	35.99	251	eP	51	10.00	3.2X				e	57	45.70	229km	GUN	8.97	151	P	06	20.28	0.8			
OIS	38.81	275	iPc	51	30.00	-0.5	MDJ	88.43	326	eP	56	55.50	2.4		0.4s	13.00nm				5.4mb X			
	0.4s	10.00nm				4.7mb	NNT	89.28	285	eP	56	46.20	-11.5X	PKI	9.10	154	P	06	21.40	0.2			
			i	57	06.20		TIA	89.68	313	P	56	58.60	-0.5		0.4s	13.00nm				5.4mb X			
ASPA	42.60	267	iPc	52	01.70	0.3	CN2	89.93	323	P	57	00.00	-0.1	HY8	18.51	187	eP	08	24.50	0.1			
Z	21s	0.60um				4.5Msz				epP	57	51.00	206kmX	GBA	22.40	189	P	09	06.00	0.2			
			ipP	52	47.40	214kmX				eS	07	30.00		NUR	43.12	323	eP	12	08.00	0.7			
			ePP	53	38.70		NST	90.55	288	eP	57	07.00	3.5X	NB2	49.72	323	P	12	58.70	-0.8			
			iScP	57	20.30		GYA	91.17	300	P	57	07.00	0.6		0.8s	1.70nm				4.1mb			
			eS	57	38.70		KHT	91.36	286	eP	57	08.90	1.7		S.D. = 0.7	on	9 of	9 obs.					
			iScS	01	35.40		BJI	92.65	316	eP	57	13.00	0.3	---									
WB2	43.58	273	iPc	52	09.00	-0.4		2.0s	80.00nm				5.4mb	?	MAR 06, 1991 17h 33m 32.52± 3.30s								
	0.4s	176.10nm				5.8mb				epP	58	08.00	224km		42.320 N ±33.7km 32.642 E ±13.5km								
			eS	57	21.50					eS	07	56.00			DEPTH = 10.0km (geophysicist)								
			e	58	17.70					es$	09	32.00			BLACK SEA (360)								
WRA	43.59	273	iPc	52	09.00	-0.5	CHG	93.14	290	iPc	57	16.00	0.6										
	0.4s	176.10nm				5.8mb		1.1s	67.09nm				5.6mb	KAS	1.27	138	ePg	33	56.00	-0.1			
			eS	57	21.50		CHTO	93.14	290	iPc	57	16.90	1.5				iSg	34	08.00				
			e	58	17.70			1.3s	66.99nm				5.6mb	GPA	2.68	222	ePn	34	18.20	1.6			
FORR	45.47	255	eP	52	24.50	0.3				pP	58	14.10	234km	HRT	2.69	237	iPn	34	16.70	0.1			
	0.4s	84.00nm				5.5mb	KMI	93.42	297	Pd	57	18.60	1.7	ISK	2.96	246	ePn	34	19.70	-0.7			
SBA	47.89	184	iPd	52	52.80	10.4X		2.0s	78.00nm				5.5mb	YLV	3.02	236	ePn	34	21.00	-0.3			
VNDA	47.93	186	iP	52	51.00	8.3X	TIY	93.57	312	Pc	57	17.50	0.4	IZI	3.10	231	ePn	34	21.20	-1.3			
WARB	48.00	261	eP	52	43.30	-0.7				SK$	07	30.00		DMK	3.67	264	ePn	34	31.20	0.7			
	0.5s	19.00nm				4.7mb	XAN	93.78	307	Pd	57	18.60	0.5		S.D. = 1.1	on	7 of	7 obs.					
MTN	49.50	279	eP	52	54.00	-1.5	ALO	94.04	52	eP	57	19.50	0.0	---									
KNA	50.17	275	eP	53	00.00	-0.6		1.3s	9.62nm				4.8mb	?	MAR 06, 1991 18h 19m 49.05± 1.82s								
COOL	51.24	253	eP	53	08.50	-0.1				e	58	14.00	221km		32.793 S ±26.3km 178.614 E ±38.0km								
KLB	53.83	251	eP	53	27.00	-0.5	CD2	95.72	302	eP	57	28.00	0.9		DEPTH = 396.9 ± 29.7 km								
	0.5s	41.00nm				5.2mb	LZH	98.38	307	eP	57	36.80	-2.3		4.6mb (3 obs.)								
NWAO	53.88	250	eP	53	28.50	0.6		2.0s	29.00nm				5.3mb		SOUTH OF KERMADEC ISLANDS (179)								
MEKA	54.74	257	eP	53	33.00	-1.2	GUN	107.99	292	Pdiff	58	24.30	1.8										
BAL	54.98	252	iPd	53	36.20	0.3	GUN	107.99	292	PKP	02	30.00	1.3	HBZ	4.80	183	eP	21	08.60	-0.7			
	0.4s	25.00nm				5.2mb	PKI	108.22	292	Pdiff	58	26.30	2.8X	PUZ	5.28	183	P	21	14.50	0.1			
MUN	54.98	250	eP	53	36.30	0.5	PKI	108.22	292	PKP	02	29.20	0.1				S	22	23.60				
MBL	55.62	264	iPd	53	40.00	-0.6	KKN	108.42	292	Pdiff	58	28.66	4.4X	NOZ	5.83	184	P	21	20.50	0.2			
	0.5s	50.00nm				5.4mb	KKN	108.42	292	PKP	02	29.40	0.1	WHH	6.32	195	P	21	26.20	0.5			
NANU	58.75	261	eP	54	04.00	1.6	DMN	108.48	292	Pdiff	58	28.30	3.7X	MOH	6.44	190	P	21	27.70	0.7			
	0.5s	42.00nm				5.4mb	GKN	109.02	292	Pdiff	58	27.22	0.4	TTH	6.89	192	P	21	32.40	0.4			
CGP	66.75	296	iPc	54	55.00	0.0	GKN	109.02	292	PKP	02	30.80	0.4	PGZ	8.03	193	P	21	44.90	-0.1			
	1.0s	18.00nm				4.8mb	BUL	123.24	211	iPKPd	03	00.20	2.5X	MNG	8.20	197	P	21	46.80	-0.3			
MAW	72.02	201	iPd	55	31.60	5.4X				i	04	02.80			0.1s	10.00nm				5.0mb			
	1.2s	240.00nm				5.8mb				i	05	04.60					S	23	26.30				
AIA	72.02	156	eP	55	32.50	6.2X	FRB	125.74	31	ePKP	03	01.00	0.0	KIW	8.58	199	P	21	51.40	0.0			
PIP	75.99	301	iPd	55	48.00	-1.7	DAG	132.70	6	ePKP	02	56.00	-18.0X	MTW	8.71	196	P	21	52.10	-0.8			
KAKJ	76.83	327	eP	55	52.80	-1.2		0.7s	3.42nm					CAW	8.77	198	P	21	53.00	-0.6			
CHJJ	77.27	326	eP	55	54.30	-2.1	KEV	138.12	347	ePKP	03	25.00	0.6	MRW	8.98	199	P	21	56.10	0.1			
IIOJ	77.35	325	eP	55	55.40	-1.5	SOD	140.17	345	ePKP	03	25.00	-3.1X	TCW	9.09	201	P	21	57.10	-0.2			
MAT	78.05	326	iPc	55	58.10	-2.6	KAF	144.48	340	ePKP	03	33.00	-2.8X	KHZ	10.41	201	P	22	13.60	0.8			
MTMJ	78.28	325	eP	55	59.70	-2.4	NUR	146.24	339	ePKP	03	39.00	0.3	WB2	41.39	277	iPd	26	59.90	-0.1			
TSRJ	78.37	324	eP	56	01.30	-1.1		0.7s	29.40nm						0.3s	11.00nm				4.7mb			
KGM	80.77	278	ePc	56	16.60	0.9	UPP	148.69	344	iPKP	03	45.80	3.2X	CHTO	91.70	291	e(P)	32	13.70	0.1			
QZH	81.61	305	eP	56	19.20	-0.5				i	04	40.10			1.0s	1.00nm				3.7mb			
HKC	83.19	301	eP	56	28.70	0.8	NB2	148.79	351	PKP	03	45.50	2.6X		S.D. = 0.5	on	16 of	16 obs.					
SSE	83.80	311	Pc	56	30.50	-0.3		0.7s	10.00nm					---									
	0.8s	20.00nm				4.9mb	HFS	149.25	348	ePKP	03	43.00	-0.5		MAR 06, 1991 18h 32m 39.96± 0.38s								

39.066 N ± 6.0km 75.580 E ± 6.6km
DEPTH = 10.0km (geophysicist)
4.5mb (15 obs.)
SOUTHERN XINJIANG, CHINA (321)

KSH	0.50	38	Pg	32	50.00	-0.1
			Sg	33	00.50	
WMO	10.26	59	eP	35	11.30	1.0
NDI	10.44	172	eP	35	15.00	2.2
			eS	37	13.00	
GKN	13.36	143	P	35	50.50	-1.8
KKN	13.85	141	P	35	57.10	-1.7
DMN	13.91	142	P	35	58.10	-1.6
GUN	14.04	139	P	36	00.30	-1.2
PKI	14.09	142	P	36	00.80	-1.3
GTA	18.77	81	Pc	37	01.40	0.0
	1.0s	20.00nm			4.3mb	
HYB	21.73	172	eP	37	35.00	1.7
LZH	22.56	89	eP	37	43.00	1.3
	2.0s	32.00nm			4.5mb	
GBA	25.41	176	P	38	13.00	3.8X
CHTO	28.58	128	eP	38	40.80	2.5
	1.0s	1.50nm			3.7mb	
HFS	43.37	320	eP	40	43.50	-0.2
	0.5s	2.30nm			4.2mb	
NB2	44.58	321	P	40	53.80	0.2
	0.7s	3.10nm			4.3mb	
CDF	48.72	305	eP	41	26.10	-0.3
BSF	49.19	304	eP	41	29.60	-0.5
LPL	49.92	301	eP	41	36.70	0.8
	0.6s	3.60nm			4.5mb	
SMF	51.47	303	eP	41	47.40	0.0
	0.7s	3.30nm			4.4mb	
AVF	51.74	304	eP	41	49.50	0.1
	0.8s	6.70nm			4.6mb	
LDF	53.34	307	eP	42	00.40	-1.0
	0.6s	3.60nm			4.5mb	
GRR	53.87	307	eP	42	04.20	-1 0
	0.7s	6.60nm			4.8mb	
BCAO	61.94	251	ePd	43	02.80	0.4
	0.7s	6.00nm			4.9mb	
MBC	64.57	4	eP	43	18.50	-0.4
INK	70.75	11	ePd	43	56.90	-0.8
YKA	78.46	5	eP	44	41.00	-1.1
	0.6s	2.70nm			4.5mb	
WRA	80.39	125	eP	44	54.20	1.0
	0.4s	1.90nm			4.4mb	
WB2	80.39	125	eP	44	54.20	1.0
	0.4s	1.90nm			4.4mb	
FFC	86.56	359	eP	45	25.00	0.8
	0.8s	6.00nm			4.8mb	
S.D. = 1.2 on 28 of 29 obs.						

MAR 06, 1991 19h 26m 13.36± 0.82s
7.814 N ±10.7km 81.100 W ± 4.5km
DEPTH = 38.1 ± 7.0 km
4.3mb (6 obs.) 3.5Msz (1 obs.)
PANAMA (81)
MD 4.5 (UPA). Felt (IV) at Santiago, Ocu, Sona and La Mesa; (III) at San Francisco, Guarare and Macaracas; (I) at Las Tablas and Chitre.

DVD	1.47	295	iPc	26	36.80	-1.0
			S	26	57.80	
UPA	1.94	53	iPd	26	45.00	0.5
			S	27	12.00	
CTCR	1.96	303	ePc	26	44.30	-0.8
PBC	2.01	288	iPc	26	54.60	9.0X
ECO	2.08	42	iPc	26	47.20	0.7
			S	27	15.40	
TIG	2.49	299	ePc	26	52.30	-0.1
CDM	3.15	303	ePd	27	02.00	-0.2
OPS	3.39	298	ePc	27	04.80	-0.3
VTU	3.42	310	ePd	27	06.80	0.8
OCM	3.50	306	ePd	27	08.10	1.1
HDC2	3.71	306	ePd	27	11.40	1.5
PTCR	3.83	301	ePd	27	10.90	-0.7
CAO	4.38	296	ePd	27	18.40	-0.8
SDV	10.41	83	eP	28	42.80	-0.7
TOV	11.35	79	eP	28	55.00	-1.2
ZOBO	27.16	152	P	31	57.00	1.0
Z	20s	0.13um			3.5Msz	
		LR		40	28.00	
LPB	27.40	152	P	32	02.00	4.0X
CNCB	27.69	152	eP	32	04.00	3.2X
SIV	30.87	140	P	32	25.60	-3.0X
ANMO	35.65	323	eP	33	10.70	0.6
	0.9s	5.25nm			4.5mb	
GOL	38.48	329	ePd	33	33.50	-0.4
	0.7s	2.43nm			4.1mb	
RSSD	41.33	335	eP	33	58.10	0.7
	1.0s	8.13nm			4.4mb	
BW06	42.88	329	eP	34	09.00	-1.1
	1.0s	5.00nm			4.2mb	
YKA	59.79	343	eP	36	15.60	-1.2
	0.9s	0.80nm			3.8mb	
INK	69.51	342	eP	37	21.00	1.2
			pP	37	36.00	54kmX
APO	85.73	30	eP	38	49.40	-0.2
	1.4s	27.00nm			5.3mb	
GKN	141.82	21	PKP	46	02.34	18.6X
WB2	143.62	247	ePKP	45	47.00	0.2
	0.5s	2.60nm				
WRA	143.63	247	ePKP	45	47.00	0.2
	0.5s	2.60nm				
GBA	149.88	45	PKPc	46	01.70	4.7X
	0.6s	2.20nm				
S.D. = 0.9 on 24 of 30 obs.						

? MAR 06, 1991 20h 19m 09.57± 5.49s
36.708 N ±12.0km 12.633 W ±50.8km
DEPTH = 10.0km (geophysicist)
NORTH ATLANTIC OCEAN (402)
MD 3.7 (RBA).

AVE	5.47	127	ePn	20	37.00	3.9X
			eSn	21	24.00	
			i	21	30.00	
EHOR	5.99	77	eP	20	41.00	0.6
			eS	21	43.30	
EPLA	6.14	55	iP	20	42.80	0.2
			eS	21	47.50	
IFR	6.93	115	iPnd	20	53.50	-0.3
			iSn	22	02.00	
			i	22	05.00	
EBAN	7.19	76	eP	20	57.00	-0.3
			eS	22	11.50	
TIO	7.29	141	iPn	20	59.00	0.1
			iSn	22	07.50	
GUD	7.71	57	iP	21	04.30	-0.4
			eS	22	27.00	
S.D. = 0.5 on 6 of 7 obs.						

MAR 06, 1991 20h 37m 40.51± 0.94s
43.427 N ± 5.7km 5.432 E ± 6.7km
DEPTH = 10.4 ± 4.7 km
NEAR SOUTH COAST OF FRANCE (379)
MD 2.7 (STR).

GELF	0.04	184	Pg	37	42.23	-0.5
TREF	0.20	350	Pg	37	44.64	-0.3
BERF	0.22	121	Pg	37	45.89	0.5
PUYF	0.22	62	Pg	37	44.69	-0.7
CDR	0.35	44	e(Pg)	37	46.10	-1.6
			e	37	50.70	
PRAF	0.42	333	Pg	37	49.40	0.2
VILF	0.47	26	Pg	37	49.72	-0.4
TAVF	0.49	67	Pg	37	49.87	-0.7
CALN	1.11	72	Pg	38	01.85	0.5
MVIF	1.33	69	Pn	38	05.56	0.4
REVF	1.44	77	Pn	38	06.66	0.0
			Sg	38	27.38	
TOUF	1.44	65	Pn	38	07.31	0.5
AURF	1.45	71	Pn	38	07.10	0.3
			Sg	38	27.25	
AUTN	1.55	68	Pn	38	09.20	0.8
SAOF	1.64	69	Pn	38	09.44	0.0
			Sg	38	33.51	
DOI	1.70	50	P	38	12.80	2.5
			eSn	38	35.00	
BNI	1.85	28	P	38	16.00	3.3X
			eSg	38	39.50	
PGF	2.76	107	Pn	38	24.52	-1.1
S.D. = 1.0 on 17 of 18 obs.						

MAR 06, 1991 22h 30m 38.15± 0.41s
44.458 N ± 3.0km 7.233 E ± 3.4km
DEPTH = 11.1 ± 4.5 km
NORTHERN ITALY (545)
ML 2.3 (GEN), 2.2 (LDG).

DOI	0.05	11	P	30	41.00	0.5
			eSg	30	42.80	
PZZ	0.11	296	P	30	41.23	0.0
			S	30	42.96	
STV	0.22	163	P	30	43.19	0.1
			S	30	46.19	
ENR	0.27	150	P	30	44.02	0.1
			S	30	47.81	
FOUF	0.33	283	iPgc	30	44.56	-0.5
			i	30	44.74	
			e(Sg)	30	47.41	
BHB	0.38	3	P	30	45.87	-0.2
			S	30	51.15	
ROB	0.49	109	P	30	48.15	0.1
			S	30	55.65	
RRL	0.56	325	P	30	48.27	-1.4
			S	30	57.03	
S8F	0.61	166	Pg	30	50.40	0.0
			Sg	30	58.00	
IMI	0.72	139	P	30	51.96	-0.4
			S	31	01.88	
FIN	0.74	109	P	30	52.54	-0.1
			S	31	02.92	
PCP	0.94	84	P	30	56.23	0.2
FRF	0.99	205	Pg	30	57.10	0.2
			Sg	31	09.20	
LPL	1.12	342	Pg	31	00.60	1.5
			Sg	31	15.20	
LRG	1.18	212	Pg	31	00.80	0.7
			Sg	31	16.40	
LMR	1.24	205	Pg	31	01.10	0.0
			Sg	31	17.00	
CDR	1.32	234	eP	31	02.80	0.4
			e	31	03.10	
			e	31	18.90	
S.D. = 0.6 on 17 of 17 obs.						

MAR 07, 1991 00h 50m 35.71± 0.60s
4.848 S ± 7.0km 137.688 E ± 9.2km
DEPTH = 33.0km (normal)
4.2mb (5 obs.)
WEST IRIAN (201)

MNDI	6.08	103	e(P)	52	07.00	1.0
MTN	10.25	219	eP	53	05.10	1.4
	0.3s	96.00nm			6.5mb	X
			eS	55	00.00	
KNA	13.94	218	eP	53	54.00	0.9
KUPT	14.92	249	eP	54	01.50	-4.5X
WB2	15.35	192	eP	54	11.30	-0.4
	0.6s	9.10nm			4.2mb	
			i	54	19.60	
			eS	56	55.70	
WRA	15.36	192	eP	54	11.30	-0.4
	0.6s	9.10nm			4.2mb	
			i	54	19.60	
			eS	56	55.70	
QIS	15.73	173	iPc	54	15.00	-1.5
			eS	57	07.00	
CTA	17.29	152	iPd	54	41.90	5.5X
	0.9s	16.81nm			4.2mb	
WARB	23.70	205	eP	55	49.00	3.4X
	0.5s	10.00nm			4.6mb	
CHTO	44.82	303	eP	58	48.80	0.0
	0.9s	1.92nm			4.0mb	
GUN	59.59	306	P	00	39.40	0.0
PKI	59.83	306	P	00	40.80	-0.2
KKN	60.02	306	P	00	42.20	0.0
DMN	60.09	306	P	00	42.60	-0.1
GKN	60.63	306	P	00	45.80	-0.5
CNCB	146.73	131	PKP	10	20.00	4.2X
LPB	146.81	130	PKP	10	18.00	2.2X
ZOBO	146.95	130	PKP	10	19.00	2.8X
SIV	152.19	138	PKP	10	31.80	8.2X
S.D. = 0.9 on 12 of 19 obs.						

MAR 07, 1991 01h 13m 56.97± 0.95s
39.931 N ± 5.3km 75.712 E ± 3.8km
DEPTH = 45.7 ± 9.5 km
5.0mb (44 obs.) 4.9Msz (10 obs.)
SOUTHERN XINJIANG, CHINA (321)
Felt (III) at Naryn, USSR.

KSH	0.52	156	Pg	14	09.10	0.7
			Sg	14	18.50	
WMO	9.75	63	P	16	16.40	-1.2
			S	18	02.00	
NDI	11.29	173	iP	16	36.50	-2.0

07d 01h

	0.8s	82.09nm		5.9mb		
		eS	18	35.00		
GKN	14.00	145 P	17	09.56	-5.1X	
KKN	14.47	144 P	17	15.94	-5.0X	
DMN	14.55	145 P	17	17.34	-4.6X	
GUN	14.65	142 P	17	18.90	-4.4X	
PKI	14.72	144 P	17	19.26	-5.0X	
	0.7s	201.00nm		5.6mb		
LSA	16.25	124 P	17	44.00	-0.1	
	3.0s	200.00nm		4.7mb		
		pP	17	52.00		
		S	20	46.00		
		sS	20	58.00		
		PcP	22	36.00		
GTA	18.55	84 eP	18	11.40	-0.9	
	0.8s	20.00nm		4.4mb		
		sP	18	21.00		
		PP	18	25.00		
		sS	21	43.00		
BOM	21.11	188 iP	18	39.20	-0.7	
POO	21.38	185 iPd	18	41.50	-1.3	
	1.2s	143.75nm		5.2mb		
LZH	22.46	91 eP	18	54.50	1.0	
	2.2s	56.00nm		4.6mb		
Z	22s	5.10um		4.9Msz		
		sP	19	03.00		
		PP	19	25.00		
HYB	22.57	173 eP	18	54.50	0.0	
	1.0s	95.00nm		5.2mb		
		eS	23	00.00		
CD2	24.48	103 P	19	15.60	2.5	
Z	12s	2.00um		4.8MszX		
BTO	26.09	77 eP	19	29.00	0.8	
N	15s	1.50um				
E	15s	1.60um				
		sP	19	39.00		
GBA	26.27	176 P	19	29.00	-0.8	
		S	24	29.00		
KMI	27.02	115 eP	19	37.50	0.6	
	1.2s	40.00nm		4.9mb		
Z	16s	1.60um		4.7MszX		
		pP	19	46.00	30kmX	
XAN	27.07	92 Pc	19	38.00	0.9	
		S	24	11.00		
GYA	29.02	108 iPd	19	55.80	0.9	
N	10s	0.60um				
E	10s	0.40um				
CHG	29.04	130 eP	19	54.80	-0.2	
CHTO	29.04	130 eP	19	54.60	-0.4	
	1.1s	9.42nm		4.4mb		
KOD	29.62	177 eP	20	00.40	-0.1	
BJI	30.82	77 eP	20	19.50	9.0X	
Z	18s	1.46um		4.7Msz		
		e	21	15.00		
		eS	25	20.00		
NST	32.21	132 eP	20	25.80	2.8X	
TIA	32.60	83 eP	20	26.70	0.5	
N	11s	0.50um				
BBTK	32.72	284 iPd	20	28.00	0.6	
CFR	35.02	295 ePd	20	48.00	1.1	
YLV	35.06	286 eP	20	47.70	0.2	
NJ2	35.50	89 Pc	20	52.20	1.0	
Z	16s	1.20um		4.7MszX		
N	11s	0.60um				
E	12s	1.40um				
DST	35.86	285 eP	20	52.00	-2.3	
SNY	35.87	71 eP	20	52.00	-2.3	
Z	17s	1.40um		4.8MszX		
N	10s	1.10um				
		eS	26	28.00		
VRI	35.91	296 ePd	21	05.00	10.4X	
MLR	36.51	295 ePd	20	55.00	-4.8X	
KAF	36.92	324 iP	21	02.80	0.0	
	0.6s	9.10nm		4.9mb		
NUR	37.37	321 eP	21	07.00	0.4	
	0.9s	54.10nm		5.5mb		
Z	16s	3.40um		5.2MszX		
		i	21	20.00		
		e	23	36.00		
		LR	36	36.00		
SSE	37.71	89 Pc	21	11.00	1.2	
	1.0s	15.00nm		4.9mb		
Z	20s	0.90um		4.6Msz		
N	12s	0.50um				
E	13s	0.90um				
		esP	21	20.00		
BMR	37.85	299 iPd	21	31.00	20.2X	

SOD	38.34	332 iP	21	14.70	0.1	
SRS	39.15	289 ePc	21	22.96	1.2	
SOH	39.40	289 ePc	21	24.06	0.1	
BZS	39.48	297 ePc	21	25.50	1.1	
SPC	39.78	302 eP	21	27.70	0.5	
VAY	39.83	290 iP	21	28.40	1.0	
	1.0s	52.00nm		5.3mb		
		i	21	39.40		
KRA	39.86	304 ePd	21	27.90	0.3	
	1.0s	43.00nm		5.2mb		
		e	21	36.70		
		i	21	40.90		
PSZ	40.21	300 eP	21	30.80	0.2	
BEO	40.45	296 eP	21	32.50	0.1	
SKO	40.47	291 iP	21	34.50	1.9	
UPP	40.79	319 iP	21	35.10	0.1	
		i	23	07.10		
BUD	40.87	300 e(P)	21	37.00	1.2	
SRO	41.28	301 eP	21	39.50	0.3	
IVA	41.32	293 iPd	21	42.71	3.0X	
UZD	41.34	299 e(P)	21	41.00	1.3	
PLE	41.56	294 iPd	21	43.19	1.5	
TTG	41.89	292 iPd	21	45.78	1.5	
ZST	42.00	301 eP	21	46.70	1.6	
		e	23	22.40		
		e	23	31.30		
ULC	42.04	292 iPd	21	45.38	-0.1	
BDV	42.24	292 iPd	21	45.79	-1.4	
BRY	42.27	293 iPd	21	48.34	0.8	
VKA	42.50	302 eP	21	50.00	0.7	
HFS	42.77	319 eP	21	50.90	-0.4	
	0.8s	33.80nm		5.1mb		
Z	17s	2.20um		5.1MszX		
		LR	37	25.00		
BRG	43.52	306 iP	21	57.80	0.3	
	1.2s	26.00nm		4.8mb		
		i	22	41.80		
		i	23	41.00		
NB2	43.98	321 P	22	00.40	-0.7	
	0.8s	28.30nm		5.1mb		
CLL	44.03	307 iPd	22	02.50	0.9	
WET	44.54	304 eP	22	06.60	0.8	
	1.2s	47.00nm		5.2mb		
ORI	44.64	290 P	22	08.80	2.1	
KBA	44.73	301 iPc	22	07.00	-0.5	
	1.0s	14.70nm		4.8mb		
		i	22	10.70		
		i	22	23.10		
		e	24	04.00		
TRI	44.81	299 ePd	22	07.90	0.0	
TDS	44.86	290 P	22	09.30	0.8	
MOX	45.02	306 eP	22	10.00	0.4	
Z	20s	3.30um		5.3Msz		
FVI	45.23	300 P	22	11.30	0.1	
MGR	45.26	291 P	22	12.10	0.5	
SGO	45.30	291 P	22	13.10	1.3	
MUD	45.44	314 eP	22	14.00	1.3	
		e	22	27.00		
		e	24	05.00		
GRF	45.48	305 ePc	22	14.10	0.9	
	0.9s	20.00nm		5.0mb		
Z	22s	1.20um		4.8Msz		
		e(pP)d	22	28.40	54kmX	
WTTA	45.81	301 iPc	22	16.30	0.2	
	1.1s	28.90nm		5.1mb		
		i	22	24.90		
		i	22	28.50		
ARV	46.01	296 P	22	18.90	1.4	
SFI	46.63	297 P	22	23.50	1.2	
FIR	47.08	297 eP	22	26.00	0.1	
MME	47.33	298 P	22	30.30	2.1	
WTS	47.65	309 eP	22	30.50	0.2	
	1.0s	18.00nm		5.0mb		
ABH	47.74	306 eP	22	45.83	14.8X	
CDF	48.31	304 eP	22	34.60	-1.0	
ENN	48.50	307 eP	22	38.00	1.1	
	0.9s	6.00nm		4.6mb		
BSF	48.80	303 eP	22	38.70	-0.7	
	0.7s	8.80nm		4.9mb		
HAU	49.03	304 eP	22	40.30	-0.7	
	0.5s	4.35nm		4.7mb		
Z	21s	1.65um		5.0Msz		
DOU	49.51	307 P	22	39.80	-4.9X	
LPG	49.56	300 eP	22	45.20	-0.3	
LPL	49.57	300 eP	22	45.30	-0.2	
	0.5s	7.30nm		5.0mb		
BNI	49.76	300 P	22	47.60	0.7	

LOR	50.86	303 eP	22	52.90	-2.1	
	0.6s	4.50nm		4.7mb		
Z	21s	1.58um		5.0Msz		
LBF	50.88	303 eP	22	54.00	-1.2	
	0.6s	4.05nm		4.6mb		
SMF	51.08	303 eP	22	55.70	-1.0	
SSF	51.15	303 eP	22	56.00	-1.3	
AVF	51.35	303 eP	22	57.40	-1.3	
	0.7s	13.80nm		5.1mb		
BGF	51.75	303 eP	23	00.20	-1.6	
	0.6s	3.60nm		4.6mb		
MAF	52.06	303 eP	23	03.40	-0.7	
	0.6s	4.95nm		4.7mb		
TCF	52.26	303 eP	23	04.60	-1.1	
EKA	52.45	315 Pc	23	06.50	-0.4	
	0.8s	9.90nm		4.9mb		
DAG	52.53	343 iPc	23	06.30	-1.0	
	1.0s	13.00nm		4.9mb		
Z	20s	0.99um		4.9Msz		
LSF	52.72	303 eP	23	06.70	-2.4	
	0.7s	5.50nm		4.7mb		
LDF	52.91	306 eP	23	09.00	-1.5	
	0.5s	6.55nm		4.9mb		
FLN	53.08	307 eP	23	10.00	-1.7	
Z	22s	1.70um		5.1Msz		
RJF	53.08	302 eP	23	11.00	-0.7	
Z	21s	0.95um		4.8Msz		
GRR	53.44	306 eP	23	12.90	-1.4	
LPO	53.53	301 eP	23	13.90	-1.1	
MFF	53.66	304 eP	23	14.70	-1.2	
LPF	53.69	306 eP	23	14.40	-1.7	
LFF	53.72	302 eP	23	16.00	-0.4	
BCAO	62.31	251 iPc	24	16.20	-0.9	
	0.5s	13.00nm		5.3mb		
		i	24	45.40		
		i	25	13.10		
MBC	63.70	4 ePc	24	24.80	-0.6	
	0.7s	33.00nm		5.5mb		
		pP	24	38.00	46kmX	
INK	69.88	11 eP	25	04.00	-0.5	
FRB	72.84	344 eP	25	13.00	-9.3X	
BUL	74.16	226 iP	25	32.40	1.7	
	0.7s	3.42nm		4.4mb		
LKO	77.29	272 P	25	47.56	-1.0	
YKA	77.59	5 eP	25	48.60	-0.7	
	0.6s	8.60nm		5.0mb		
KIC	78.63	269 PKP	25	56.30	0.4	
TIC	78.67	269 PKP	25	56.50	0.4	
LIC	78.94	269 PKP	25	57.00	-0.6	
WRA	80.80	126 eP	26	07.40	0.0	
	0.8s	24.70nm		5.2mb		
WB2	80.81	126 eP	26	07.40	0.0	
	0.8s	24.70nm		5.2mb		
ASPA	83.31	128 iPc	26	20.60	0.3	
	1.1s	26.60nm		5.2mb		
FFC	85.70	359 ePc	26	31.60	-0.3	
	0.8s	18.00nm		5.3mb		
SES	89.86	4 eP	26	52.00	-0.1	
PNT	90.11	10 eP	26	53.00	-0.2	
	0.7s	8.00nm		5.2mb		

S.D. = 1.1 on 111 of 125 obs.

MAR 07, 1991 01h 28m 10.54± 0.22s
20.082 S ± 4.3km 134.025 E ± 3.6km
DEPTH = 5.0km (geophysicist)
5.2mb (8 obs.)
NORTHERN TERRITORY, AUSTRALIA (591)

WRA	0.33	65 iPc	28	17.30	0.2	
	0.9s	646.70nm				
WB2	0.34	66 iPc	28	17.30	0.0	
	0.9s	646.70nm				
ASPA	3.57	182 iPc	29	13.20	5.5X	
	0.4s	750.20nm				
		iPg	29	24.70		
		iS	29	50.10		
QIS	5.26	96 iPd	29	32.30	0.5	
		eS	30	31.00		
KNA	6.60	310 eP	29	46.90	-3.8X	
	0.3s	78.00nm		6.3mb X		
		eS	30	59.00		
MTN	7.71	338 eP	30	01.30	-4.9X	
WAR8	9.11	227 eP	30	26.50	0.8	
	0.3s	34.00nm		6.3mb X		
		eS	32	06.00		
QLP	11.39	127 iPc	30	54.30	-2.8X	
		eS	32	57.00		

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CTA     11.49  92 iPd   30 57.90  -0.6
        0.5s    24.65nm          5.8mb X
FORR    11.98 205 eP    31 03.60  -1.3
        0.3s    93.00nm          6.6mb X
                eS      33 13.00
STK     13.57 151 iPd   31 38.60  12.4X
        0.4s    86.70nm
                iS      34 07.40
KUPT    14.09 313 eP    31 25.00  -8.1X
                e(S)    34 01.50
RMO     14.96 118 eP    31 43.00  -1.5
                i       31 52.00
                iS      34 24.00
ADE     15.39 165 ePd   31 49.20  -1.0
        0.7s   197.26nm          5.6mb
                e       31 56.30
CMS     15.54 139 eP    31 51.00  -1.0
        0.6s    49.00nm          5.0mb
                eS      34 35.00
MEKA    15.64 243 eP    31 49.50  -3.8X
                eS      34 35.00
COOL    15.83 225 eP    31 52.00  -3.8X
PMG     16.53  52 eP    32 03.00  -1.9
KLB     18.57 229 iPd   32 27.10  -3.1X
        0.5s    25.00nm          4.7mb
BFD     18.58 158 eP    32 30.00  -0.4
        1.0s   196.00nm          5.3mb
                eS      35 53.00
BRS     18.63 117 iPc   32 33.00   1.9
BAL     18.81 233 eP    32 30.00  -3.2X
COO     19.21 126 eP    32 38.00  -0.2
NWAO    19.70 226 eP    32 41.00  -2.8X
                eS      36 12.00
MUN     19.88 230 eP    32 45.00  -0.7
                eS      36 15.00
TOO     20.08 153 eP    32 49.00   1.1
CNB     20.32 141 ePc   32 51.00   0.6
RKG     20.54 224 eP    32 56.00   3.4X
                eS      36 38.00
CHTO    51.74 316 e(P)  37 20.00  -1.4
        1.1s    12.96nm          4.8mb
CD2     58.45 329 P     38 09.20  -0.7
KOD     63.28 293 eP    38 43.50   0.2
GBA     64.95 296 P     38 53.00  -0.8
GUN     66.67 314 P     39 04.90  -0.2
        0.6s    36.00nm          5.8mb
PKI     66.77 314 P     39 05.22  -0.5
KKN     66.99 314 P     39 06.80  -0.3
        0.9s    51.00nm          5.8mb
DMN     67.00 313 P     39 06.90  -0.2
GTA     67.27 332 iPc   39 08.20  -0.3
        0.6s    10.00nm          5.2mb
GKN     67.57 313 P     39 10.22  -0.4
WMO     76.45 327 P     40 03.50   0.4
YKA    117.47  29 ePKP  46 58.20  -0.3
        0.7s     1.60nm
APO    121.99 330 ePKP  47 06.70  -0.5
        0.5s     0.80nm
NB2    123.10 331 PKP   47 09.60   0.2
        0.8s     2.60nm
CLL    124.73 319 e(PKP)47 14.00   1.2
8SF    129.45 316 ePKP  47 22.40   0.3
        0.7s     5.50nm
HAU    129.70 316 ePKP  47 22.40  -0.1
LPG    130.02 313 ePKP  47 23.80   0.3
        0.6s     3.15nm
LPL    130.03 313 ePKP  47 23.70   0.2
        0.6s     2.70nm
CDR    131.09 311 ePKP  47 33.60   8.4X
LOR    131.52 316 ePKP  47 26.00   0.0
        0.7s     3.30nm
LBF    131.52 316 ePKP  47 26.30   0.3
SSF    131.81 316 ePKP  47 27.00   0.5
        0.7s     5.50nm
BGF    132.38 315 ePKP  47 28.10   0.5
        0.6s     5.85nm
MAF    132.67 315 ePKP  47 29.20   1.0
FRB    133.77  14 ePKP  47 30.00   0.4
MFF    134.33 316 ePKP  47 32.60   1.3
LPF    134.40 318 ePKP  47 32.60   1.3
        0.4s     3.45nm
SIV    141.20 156 ePKP  47 39.00  -5.9X
GAC    144.76  37 ePKP  47 51.00   0.9
SOB1   150.47 190 ePKP  48 06.70   6.5X
     S.D. = 0.8  on  44 of  59 obs.
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% MAR 07, 1991  03h 38m 54.12± 1.13s
   44.632 N ± 8.2km    2.416 E ± 8.3km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                              (538)
      ML 2.3 (LDG).

CAF     0.39 320 Pg    39 01.40  -0.6
                Sg     39 10.00
LPO     0.88 274 Pg    39 11.00   0.0
                Sg     39 24.40
RJF     0.93 317 Pg    39 11.60  -0.2
                Sg     39 26.10
LFF     1.23 285 Pg    39 17.80   0.8
                Sg     39 36.20
MAF     1.59   4 Pg    39 21.50  -0.9
                Sg     39 43.60
TCF     1.66 355 Pg    39 23.20  -0.2
                Sg     39 46.60
LSF     1.73 339 Pg    39 25.60   1.1
                Sg     39 50.40
BGF     1.95   9 Pg    39 27.20  -0.4
                Sg     39 54.40
EPF     2.20 224 Pg    39 30.80  -0.4
                Sg     39 59.80
SMF     2.25  26 Pg    39 32.80   0.9
     S.D. = 0.8  on  10 of  10 obs.
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? MAR 07, 1991  03h 43m 39.86± 2.70s
   16.315 N ±17.0km    60.944 W ±23.7km
   DEPTH =  33.0km  (normal)
 LEEWARD ISLANDS                     ( 92)
      ML 2.4 (FDF).

DEG     0.11 269 iPc   43 45.81   0.0
                S      43 50.10
SEG     0.55 279 eP    43 51.09   0.0
                S      43 59.00
DOG     0.71 247 eP    43 53.70   0.3
                S      44 04.10
PAC     0.76 248 eP    43 54.00  -0.2
                S      44 05.00
8BL     0.94 213 eP    43 56.70   0.0
     S.D. = 0.3  on   5 of   5 obs.
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& MAR 07, 1991  05h 18m 22.19s
   63.325 N          151.239 W
   DEPTH =  12.2km
 CENTRAL ALASKA                      (  1)
      <AEIC>.

TRF     0.45  73 eP    18 31.05  -0.4
                eS     18 38.71
HUR     0.81 115 eP    18 37.52  -0.1
CUT     1.03 154 iP    18 41.50   0.2
                eS     18 55.93
RND     1.08  85 eP    18 42.14  -0.2
                S      18 57.45
MCK     1.11  67 eP    18 43.17   0.3
BWN     1.16  42 eP    18 43.47  -0.2
                eS     19 00.70
SKT     1.36 186 eP    18 46.29  -0.6
                eS     19 04.05
NEA     1.58  36 eP    18 49.61  -0.4
                eS     19 10.75
WRH     1.81  49 eP    18 52.99  -0.3
SUA     1.88 173 eP    18 55.43   0.9
GHO     1.89 144 eP    18 54.89   0.3
NCG     1.98 193 eP    18 55.27  -0.6
PLRM    2.00 150 eP    18 55.87  -0.2
CCB     2.01  47 eP    18 57.38   1.1
                eS     19 22.29
RDS     2.03  41 eP    18 58.28   1.7
MDM     2.11  37 eP    18 59.46   1.8
                S      19 25.32
HDA     2.19  58 eP    19 00.97   2.2
FBA     2.19  42 eP    19 01.69   2.9
                S      19 28.98
PMS     2.23 159 eP    18 59.94   0.4
KNK     2.32 145 eP    19 01.19   0.5
GLM     2.37  44 eP    19 03.99   2.5
KLU     3.08 124 eP    19 11.48  -0.1
     22 obs. associated
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   MAR 07, 1991  05h 36m 28.30± 0.54s
   37.537 N ± 8.1km   105.537 E ± 7.6km
   DEPTH =  10.0km  (geophysicist)
   4.3mb (  5 obs.)
 NORTHERN CHINA                      (323)
      ML 4.4 (BJI).

LZH     1.98 224 iPgd  37 05.00   2.6
                Sg     37 31.50
XAN     4.44 141 Pnd   37 37.00  -0.3
     N  10s     2.60um
                Pg     37 47.70
                Sn     38 29.50
                Sg     38 45.50
BTO     4.64  47 ePn   37 40.00  -0.1
                ePg    37 51.20
                Sg     38 48.40
GTA     4.86 294 Pn    37 43.40   0.0
     Z  13s     1.50um
                Pg     37 56.40
                Sg     39 02.40
TIY     5.48  86 ePn   37 52.00   0.0
     Z  11s     2.82um
                Sg     39 15.00
HHC     5.73  53 Pn    37 55.80   0.2
     Z  10s     1.30um
     N  10s     1.00um
     E  10s     1.60um
                Pg     38 12.00
                Sg     39 20.40
BJI     8.68  70 eP    39 07.00  30.3X
     Z  10s     0.64um
     N  10s     1.07um
                eLg    40 51.00
GYA    11.09 175 P     39 07.40  -2.6
WMO    14.91 300 P     40 08.50   7.6X
GUN    19.09 246 P     40 53.10  -0.8
CHG    19.53 199 eP    41 00.30   1.4
CHTO   19.53 199 eP    40 59.70   0.8
       0.8s     4.21nm          3.8mb
KKN    19.60 246 P     41 00.24   0.4
PKI    19.63 245 P     40 58.36  -1.9
DMN    19.82 246 P     41 01.04  -1.2
GKN    19.95 248 P     41 05.20   1.7
HFS    59.17 324 eP    46 30.30  -1.0
       0.5s     1.30nm          4.3mb
NB2    59.95 326 P     46 34.60  -2.1
       0.8s     2.90nm          4.5mb
MBC    62.98  11 eP    46 59.00   2.1
FBA    63.16  27 ePc   47 00.10   1.9
       0.6s     5.42nm          4.9mb
INK    65.72  20 eP    47 14.00  -0.8
YKA    75.22  18 eP    48 12.30  -0.1
       0.7s     1.10nm          4.0mb
     S.D. = 1.5  on  20 of  22 obs.
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   MAR 07, 1991  06h 59m 14.27± 0.20s
   45.735 N ± 4.7km   151.351 E ± 3.3km
   DEPTH =  38.5km  (  7 depth phases)
   5.4mb ( 70 obs.)  4.5Msz (  8 obs.)
 KURIL ISLANDS                       (221)

OFUJ    9.77 230 eP    01 31.60  -3.7X
                eS     03 17.40
MAT    13.49 232 (P)   02 22.00  -3.4X
       1.0s    18.00nm          4.9mb
               (S)     04 50.00
BJI    26.25 270 eP    04 49.00   1.6
       1.0s    88.00nm          5.3mb
     Z 18s     0.88um          4.3Msz
               eS      09 20.00
SSE    27.59 249 P     05 00.00   0.3
       1.0s    12.00nm          4.5mb
     Z 20s     0.50um          4.1Msz
               eS      10 04.00
LZH    36.70 272 iPc   06 20.00   0.5
       1.0s    65.00nm          5.5mb
     Z 30s     0.57um          4.2MszX
               pP      06 26.00  20kmX
               i       07 06.00
               i       07 29.00
FBA    37.71  38 eP    06 28.60   1.2
       0.8s    20.69nm          5.1mb
INK    43.16  32 ePc   07 13.10   0.8
       0.8s    22.00nm          4.9mb
MBC    45.96  19 eP    07 35.00   0.3
       0.7s     7.00nm          4.7mb
CHG    50.69 256 iPc   08 12.50   0.4
       0.9s    77.52nm          5.7mb
CHTO   50.69 256 iPc   08 12.80   0.8
       0.9s    49.45nm          5.5mb
               pP      08 24.30  41km
```

07h

			sP	08	28.90			PSZ	77.51	329	iP	11	07.10	-0.2		0.9s	52.40nm		5.6mb
BDT	51.75	254	eP	08	18.00	-2.0		PRU	77.55	333	P	11	07.50	0.1		Z 22s	0.38um		4.7Msz
YKA	52.47	36	eP	08	24.70	-0.3		MOX	77.87	335	iP	11	09.00	-0.2	GRR	83.16	342	iPc	11	37.20	-0.1
	0.8s	9.90nm				4.8mb			1.0s	37.00nm				5.4mb		1.0s	76.00nm			5.7mb	
GUN	53.87	275	Pc	08	35.96	-0.2		WTS	77.98	338	iPc	11	09.70	0.0	LBF	83.32	338	eP	11	37.90	-0.3
KKN	54.36	275	Pc	08	39.40	-0.2			0.9s	75.00nm				5.7mb	SSF	83.37	339	eP	11	38.40	0.0
PKI	54.40	275	Pc	08	39.78	-0.3		HOF	78.09	335	iPd	11	10.50	0.1		0.9s	33.60nm			5.4mb	
DMN	54.59	275	Pc	08	41.50	0.1			0.8s	32.00nm				5.4mb	LPF	83.54	342	eP	11	39.40	0.2
NNT	54.61	250	iPc	08	43.00	1.7		ZST	78.26	331	iP	11	11.70	0.4		1.1s	58.60nm			5.6mb	
GKN	54.68	275	Pc	08	41.74	-0.2			1.0s	29.00nm				5.2mb	AVF	83.66	339	eP	11	40.00	0.1
PNT	56.81	51	eP	08	57.00	0.1		KHC	78.61	333	iPc	11	13.60	0.3		1.0s	55.00nm			5.6mb	
	0.9s	16.00nm				5.0mb			1.0s	32.00nm				5.3mb	SMF	83.67	338	eP	11	40.00	0.1
DAG	57.61	357	iPc	09	00.50	-1.6		WET	78.81	334	iPc	11	14.70	0.3		0.9s	64.70nm			5.7mb	
	0.9s	9.24nm				4.8mb			1.0s	78.00nm				5.6mb	SFI	83.77	332	P	11	41.40	1.0
EDM	57.90	45	ePc	09	04.50	0.0		GRF	78.83	335	iPc	11	15.10	0.6	ARV	83.78	331	P	11	41.00	0.4
SNG	58.10	245	eP	09	07.10	0.9			0.9s	75.00nm				5.7mb	MME	83.90	333	P	11	42.30	0.8
NEW	58.77	51	ePc	09	10.10	-0.5			Z 20s	0.20um				4.4Msz	LPL	83.91	336	iPc	11	41.90	0.4
	0.9s	17.54nm				5.2mb		TNS	79.15	337	ePc	11	16.00	-0.3		0.9s	35.20nm			5.5mb	
			epP	09	21.90	41km		PVL	79.29	323	iPc	11	17.00	0.0	LPG	83.92	336	eP	11	42.10	0.5
			e	09	30.70			ENN	79.33	338	iPc	11	17.00	-0.1		0.9s	34.40nm			5.5mb	
NDI	59.40	281	iPc	09	14.50	-0.7			0.9s	77.00nm				5.7mb	CRE	84.00	332	P	11	42.30	0.5
	0.7s	126.71nm				6.2mb		JMB	79.36	322	eP	11	16.00	-1.4	BGF	84.00	339	eP	11	41.80	0.2
WDC	60.09	61	eP	09	20.00	0.2		SNF	79.98	339	P	11	20.30	-0.3	AGG	84.03	323	ePc	11	34.90	-7.0X
SES	60.72	47	ePc	09	23.60	-0.4		GAC	80.02	31	eP	11	20.00	-0.9	BDI	84.05	333	P	11	42.80	0.8
			pP	09	35.00	39km			0.9s	8.00nm				4.7mb	PLDF	84.35	338	P	11	44.40	0.9
FFC	62.30	39	iPc	09	34.70	0.2					pP	11	37.00	61kmX	BNI	84.35	336	P	11	44.60	1.0
	0.7s	23.00nm				5.4mb		BHG	80.07	333	iPc	11	21.80	0.6	MAF	84.39	339	iPc	11	44.20	0.6
LRM	62.78	51	ePd	09	38.70	0.5			0.9s	45.00nm				5.4mb	TCF	84.41	339	eP	11	44.10	0.4
CMB	62.95	62	e(P)	09	39.50	0.4		ETA	80.08	346	eP	11	21.60	0.5		1.0s	43.00nm			5.5mb	
			e	09	50.70	37km		FUR	80.18	334	eP	11	22.00	0.2	LSF	84.62	339	iPc	11	45.10	0.4
KAF	63.84	335	iP	09	43.20	-1.4			0.8s	43.00nm				5.5mb		1.0s	77.00nm			5.8mb	
	0.7s	6.40nm				4.8mb		DOU	80.28	339	Pc	11	21.80	-0.4	AOU	84.63	330	P	11	44.70	-0.2
TNP	64.87	61	ePd	09	51.70	-0.2			0.8s	28.30nm				5.3mb	MFF	84.69	341	eP	11	45.50	0.5
	0.9s	9.77nm				4.9mb		PGB	80.32	323	eP	11	22.00	-0.7		1.2s	41.65nm			5.5mb	
			epP	10	03.00	38km		PLD	80.46	323	eP	11	23.00	-0.3	PYM	84.71	338	P	11	46.40	1.1
			esP	10	07.70			KBA	80.49	332	iPd	11	24.20	0.6	SSB	84.74	337	P	11	45.97	0.6
QUE	65.40	289	iPc	09	54.80	-0.5			1.0s	74.30nm				5.6mb	MNS	84.85	331	P	11	45.90	-0.1
NUR	65.60	334	eP	09	54.00	-1.9					i	11	40.40	58kmX	LBL	85.13	338	P	11	48.80	1.6
	0.6s	14.30nm				5.2mb		ECB	80.49	347	eP	11	23.40	0.1	MBH	85.34	309	eP	11	49.00	0.3
HYB	65.79	270	iPc	09	57.10	-0.7		GWF	80.51	337	P	11	23.66	0.1	RJF	85.51	339	eP	11	49.60	0.4
	1.0s	25.00nm				5.2mb		ECP	80.60	346	eP	11	24.20	0.4		1.0s	34.00nm			5.5mb	
CLC	66.08	63	eP	10	10.00	10.5X			1.0s	169.00nm				6.0mb		Z 21s	0.35um			4.7Msz	
BW06	66.33	53	ePc	10	00.90	-0.3		VTS	80.69	324	iPc	11	24.00	-0.7	CAF	85.72	339	eP	11	51.10	0.8
	0.8s	4.76nm				4.6mb		RZN	80.80	322	iPc	11	25.00	-0.4		1.1s	68.35nm			5.8mb	
			epP	10	12.10	37km		WTTA	80.87	334	iPc	11	25.90	0.3	LRG	85.90	335	eP	11	51.40	0.2
SBB	66.67	64	eP	10	03.00	-0.3			0.9s	67.50nm				5.6mb		0.8s	28.20nm			5.5mb	
WB2	67.16	197	iPc	10	05.70	-0.6					i	11	41.20	54kmX	LMR	85.97	335	eP	11	51.70	0.2
	0.7s	24.20nm				5.4mb		ALN	80.87	321	ePc	11	25.36	-0.1		1.1s	63.50nm			5.8mb	
WRA	67.17	197	iPc	10	05.70	-0.6		SOTA	81.04	334	iPc	11	26.80	0.3	LFF	86.04	340	eP	11	51.50	-0.3
	0.7s	24.20nm				5.4mb			0.9s	46.50nm				5.5mb	LPO	86.17	339	eP	11	53.20	0.7
RVR	67.40	64	eP	10	17.00	9.2X		WLS	81.10	337	P	11	26.28	-0.4		1.2s	53.55nm			5.6mb	
UPP	68.17	337	iP	10	10.80	-1.3		CDF	81.12	337	P	11	26.70	-0.1	EPF	87.93	339	eP	12	01.60	0.5
POO	68.33	275	iPc	10	13.00	-0.8		VBY	81.22	330	e(P)c	11	26.80	-0.5	BCAO	114.82	306	iPKPd	17	53.50	0.7
	0.9s	35.29nm				5.4mb		MMB	81.30	323	iPc	11	29.00	1.2		0.5s	5.00nm				
RSSD	68.41	49	iPc	10	13.40	-0.9		ECH	81.33	337	P	11	27.65	-0.2	LKO	121.20	333	PKP	18	04.04	-0.8
	0.8s	8.01nm				4.8mb		FEL	81.40	336	P	11	28.06	-0.3	TIC	123.74	331	PKP	18	09.50	-0.2
			epP	10	24.80	38km		OGA	81.41	334	iPd	11	29.10	0.6	KIC	123.91	331	PKP	18	09.80	-0.3
AKU	68.62	355	iP	10	15.10	0.3			0.8s	47.00nm				5.5mb	LIC	124.13	331	PKP	18	10.20	-0.3
	1.0s	28.00nm				5.3mb		VITF	81.65	337	P	11	29.49	0.1	ZOBO	135.89	61	PKP	18	32.00	-1.6
HFS	68.97	339	eP	10	15.60	-1.5		MOF	81.67	337	P	11	29.57	-0.1	LPB	136.10	62	ePKP	18	33.00	-0.8
	0.6s	49.70nm				5.7mb		HAU	81.74	337	eP	11	29.60	-0.4	CNCB	136.39	62	PKP	18	36.00	1.5
	Z 20s	0.24um				4.4Msz			0.9s	27.85nm				5.3mb	SIV	139.82	53	PKP	18	34.20	-6.0X
		LR	38	13.00					Z 20s	0.20um				4.5Msz	LCCH	145.14	85	ePKP	18	48.80	-0.1
NAO	69.06	341	P	10	15.60	-2.1		SRS	81.75	323	ePc	11	29.96	-0.1	LNV	145.51	85	ePKPd	18	49.50	0.0
	0.7s	21.90nm				5.3mb		BSF	81.78	337	P	11	29.94	-0.4	PEL	145.57	84	ePKP	18	49.50	-0.3
GBA	69.18	268	P	10	18.30	-0.7		SKO	81.93	325	iPd	11	32.00	1.0	SAN	145.76	84	ePKP	18	50.00	0.0
PV09	69.41	56	P	10	20.50	-0.1			0.5s	63.00nm				5.9mb	PCH	145.95	84	ePKP	18	51.00	0.5
GLA	69.62	63	eP	10	22.00	0.4		CTI	81.94	333	P	11	30.50	-0.7	PPD	149.98	46	ePKP	19	02.40	5.4X
KOD	71.50	266	eP	10	33.40	-0.1		KNT	82.00	323	ePd	11	31.80	0.4		S.D. = 0.7	on 161 of 169 obs.				
ANMO	73.41	57	P	10	44.80	0.4		VAY	82.01	324	iP	11	32.00	0.6	---						
	0.8s	3.17nm				4.3mb X			1.0s	81.00nm				5.7mb		MAR 07, 1991 07h 47m 34.28± 0.54s					
ALQ	73.41	57	eP	10	44.50	0.0		HRI	82.18	310	eP	11	33.00	0.4		40.423 N ± 6.3km 26.157 E ±.4.9km					
	1.0s	3.00nm				4.2mb X		LOMF	82.21	337	P	11	32.55	0.0		DEPTH = 10.0km (geophysicist)					
KRA	75.69	330	iPd	10	57.00	0.0		GRG	82.38	324	ePc	11	33.36	-0.1	TURKEY						(366)
	0.7s	64.00nm				5.7mb		PAIG	82.70	322	ePc	11	33.96	-1.1							
SPC	76.32	329	eP	11	00.60	-0.2		FLN	82.73	342	eP	11	34.70	-0.3	ALN	0.48	350	ePc	47	43.68	-0.4
VRI	76.55	324	ePd	11	11.00	9.0X			0.9s	40.95nm				5.5mb				i	47	50.56	
CVO	76.82	324	ePc	11	03.50	0.0			Z 21s	0.22um				4.5Msz	EZN	0.61	168	iPg	47	45.50	-1.1
CLL	76.87	335	iPc	11	02.90	-0.7		LDF	82.81	341	iPc	11	35.10	-0.4				eSg	47	53.00	
	0.9s	65.00nm				5.7mb			0.9s	22.95nm				5.2mb	EDC	1.31	93	iPn	47	58.00	-0.4
BRG	76.96	334	iPc	11	03.20	-1.0		OHR	82.91	325	eP	11	35.30	-0.9	BNT	1.35	92	iPn	47	58.50	-0.6
	0.9s	30.00nm				5.3mb			0.9s	42.00nm				5.5mb	KDZ	1.35	336	iPc	47	58.00	-1.1
EKA	77.03	345	Pc	11	04.10	-0.3		FNA	82.95	324	ePd	11	36.00	-0.4				iS	48	16.00	
	0.7s	17.00nm				5.2mb		MML	83.00	310	iPc	11	37.60	0.8	RZN	1.67	320	eP	48	03.00	-0.9
MLR	77.18	324	ePd	11	05.50	-0.1		VAI	83.00	335	P	11	36.30	-0.1	KCT	1.69	95	ePn	48	04.00	0.0
ISR	77.22	323	ePc	11	06.00	0.3		LIT	83.06	323	ePd	11	36.50	-0.4	DIM	1.69	344	iP	48	05.00	1.0
WIT	77.27	339	eP	11	07.00	1.2		LOR	83.08	338	iPc	11	36.90	-0.1	DMK	1.85	40	iPn	48	05.30	-1.0

DST 2.07 112 ePn 48 10.20 0.7
JMB 2.07 9 eP 48 13.00 3.6X
SRS 2.07 290 iPc 48 10.17 0.7
SOH 2.17 281 ePd 48 12.00 1.0
e 48 41.00
MMB 2.18 303 iP 48 05.00 -6.1X
YLV 2.46 86 ePn 48 17.00 1.9
KNT 2.58 288 ePd 48 16.01 -0.8
i 48 50.20
PGB 2.60 326 eP 48 18.00 0.9
S.D. = 1.0 on 15 of 17 obs.

% MAR 07, 1991 09h 44m 01.67± 1.00s
42.756 N ± 9.1km 19.285 E ± 6.3km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.4 (TTG).

NKY 0.22 285 iPgd 44 07.02 0.6
iSg 44 10.36
TTG 0.33 183 iPgc 44 08.72 0.3
iSg 44 13.32
PVY 0.53 107 iPgc 44 12.46 0.0
iSg 44 20.77
BRY 0.56 285 iPgd 44 12.66 -0.6
iSg 44 20.69
BDV 0.58 216 iPgd 44 12.86 -0.6
iSg 44 21.57
HCY 0.66 242 iPgc 44 15.07 0.3
iSg 44 23.81
S.D. = 0.6 on 6 of 6 obs.

• MAR 07, 1991 10h 39m 11.55± 2.19s
49.985 N ±24.9km 18.771 E ±11.5km
DEPTH = 10.0km (geophysicist)
CZECHOSLOVAKIA (547)

SPC 1.25 129 iPn 39 34.80 0.0
i(Sg) 39 55.40
ZST 2.10 212 e(P) 39 47.10 -0.1
i 40 02.60
e 40 38.30
SRO 2.19 188 i(P) 39 55.40 6.8X
i 40 39.90
e 41 10.50
PSZ 2.20 160 iP 39 56.00 7.3X
VKA 2.36 224 eP 39 58.00 7.1X
i 40 02.40
i 40 44.20
PRU 2.73 272 Pn 39 57.00 0.8
1.0s 24.60nm
Pg 40 01.20
Sg 40 36.60
BRG 3.21 288 ePg 40 08.00 5.0X
iSg 40 51.00
KHC 3.49 258 Pn 40 05.60 -1.3
Pg 40 12.40
Sg 40 59.50
CLL 3.90 292 ePg 40 21.00 8.2X
eSg 41 15.00
KBA 4.63 233 eP 40 24.00 0.7
1.2s 32.90nm
e 41 17.00
i 41 47.60
i 41 56.60
S.D. = 1.2 on 5 of 10 obs.

MAR 07, 1991 10h 57m 33.11± 0.35s
43.242 N ± 2.8km 13.860 E ± 3.8km
DEPTH = 33.0km (normol)
CENTRAL ITALY (381)
ML 3.8 (LDG). MD 3.2 (TRI), 3.2 (SSO).

SSO 0.33 279 iPg 57 42.35 1.1
iSg 57 47.63
AOI 0.36 329 iPgc 57 42.82 1.1
iSg 57 50.14
ALP 0.51 204 iPg 57 42.62 -1.3
iSg 57 49.78
CIO 0.53 265 iPgd 57 44.15 0.0
iSg 57 52.93
ARV 0.72 291 Pc 57 47.50 0.7
eSg 57 57.30
ASS 0.89 259 Pc 57 49.60 0.2
eSg 58 01.70
AOU 0.95 201 P 57 50.00 -0.2
eSg 58 04.20
MNS 1.22 226 P 57 53.50 -0.5
eSn 58 10.30
AZI 1.29 194 P 57 56.90 2.0
eSn 58 12.80
CRE 1.44 286 P 57 58.50 1.2
eSn 58 16.10
SFI 1.61 296 P 58 00.70 1.2
eSn 58 20.20
DUI 1.64 164 P 58 01.00 0.9
eSn 58 23.10
RIY 2.13 10 ePn 58 07.20 0.1
iSn 58 33.60
TRI 2.47 358 e(Pn) 58 11.40 -0.4
i(Sg) 58 41.10
VBY 2.47 23 ePn 58 12.30 0.3
eSn 58 41.20
BDI 2.51 290 P 58 12.20 -0.3
iSn 58 40.50
CEY 2.53 9 ePn 58 12.50 -0.3
eSn 58 43.50
VOY 2.79 0 ePn 58 16.00 -0.5
eSn 58 49.60
LJU 2.84 9 ePn 58 17.50 0.4
eSn 58 50.50
SGO 2.89 158 P 58 18.00 0.2
CTI 3.22 331 P 58 22.10 -0.5
BRT 3.43 132 P 58 24.50 -1.1
FVI 3.44 347 P 58 25.20 -0.4
eSn 59 04.00
BOB 3.53 297 P 58 26.80 -0.2
PGF 3.64 261 Pn 58 28.20 -0.4
KBA 3.85 355 iPnc 58 31.50 -0.2
iPg 58 45.90
i 58 50.40
iSn 59 15.80
iSg 59 35.60
SCE 4.09 339 ePn 58 35.00 0.0
WTTA 4.32 339 iPnc 58 38.50 0.2
iSn 59 29.90
SBF 4.71 280 Pn 58 42.80 -1.0
Sn 59 30.00
FRF 5.27 276 Pn 58 51.00 -0.5
LMR 5.37 273 Pn 58 51.60 -1.4
LRG 5.47 275 Pn 58 53.80 -0.6
LPG 5.57 296 Pn 58 53.40 -2.7X
LPL 5.59 296 Pn 58 53.60 -2.8X
Sn 59 50.80
CDF 6.92 321 Pn 59 12.60 -2.3X
Sn 00 23.00
HAU 7.10 315 Pn 59 15.10 -2.2X
Sn 00 26.80
SMF 7.88 299 Pn 59 24.80 -3.5X
Sn 00 44.60
LBF 7.93 302 Pn 59 25.80 -3.2X
Sn 00 45.20
LOR 8.12 303 Pn 59 29.00 -2.7X
Sn 00 51.00
AVF 8.25 299 Pn 59 30.00 -3.3X
SSF 8.25 301 Pn 59 30.30 -3.2X
S.D. = 0.8 on 32 of 41 obs.

• MAR 07, 1991 10h 58m 18.41± 2.11s
8.957 N ± 9.3km 126.767 E ±15.1km
DEPTH = 62.8 ± 18.8 km
4.7mb (12 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

CGP 2.11 256 eP 58 53.50 1.5
iS 59 26.00
DAV 2.20 213 eP 58 58.80 5.5X
MAP 3.06 297 iPd 59 04.00 -1.5
eS 59 33.00
SSE 22.63 347 eP 03 16.50 1.5
NJ2 24.13 343 Pd 03 29.70 0.2
IPM 25.92 262 ePc 03 48.60 1.9
CHTO 28.69 293 eP 04 07.30 -4.5X
1.0s 1.50nm 3.6mb X
WRA 29.67 165 iPc 04 19.70 -0.9
0.5s 7.70nm 4.7mb
WB2 29.67 165 iPc 04 19.70 -0.9
0.5s 7.70nm 4.7mb
OIS 31.93 157 eP 04 40.00 -0.5
0.6s 25.00nm 5.2mb
ASPA 33.16 168 iPd 04 50.90 -0.3
0.3s 13.40nm 5.3mb
HHC 34.51 339 eP 05 02.20 -0.5
FORR 39.60 178 iPc 05 46.30 0.9
0.4s 30.00nm 5.5mb
GUN 42.86 302 P 06 11.38 -1.4
PKI 43.16 301 P 06 13.74 -1.4
0.5s 6.00nm 4.6mb
DMN 43.42 301 P 06 16.78 -0.4
0.5s 5.00nm 4.6mb
GKN 43.94 301 P 06 19.30 -2.0
0.4s 4.00nm 4.5mb
GBA 48.53 280 P 06 59.00 1.5
0.5s 4.00nm 4.7mb
INK 85.32 22 eP 10 50.00 0.5
MBC 86.88 13 eP 10 58.50 1.4
1.0s 6.00nm 4.7mb
DAG 92.13 353 iPd 11 21.80 0.1
0.9s 7.56nm 5.1mb
YKA 94.75 24 eP 11 34.20 0.2
0.7s 0.60nm 4.1mb
S.D. = 1.3 on 20 of 22 obs.

MAR 07, 1991 11h 48m 07.11± 1.33s
44.701 N ±10.9km 2.456 E ± 9.1km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.8 (LDG).

CAF 0.36 309 Pg 48 14.00 -0.5
Sg 48 21.60
LBL 0.77 46 Pg 48 18.57 -3.6X
RJF 0.90 313 Pg 48 23.80 -0.5
Sg 48 37.60
LPO 0.90 269 Pg 48 23.50 -0.9
Sg 48 36.00
PYM 1.12 20 Pg 48 25.97 -2.2
Sg 48 42.74
LFF 1.24 282 Pg 48 30.00 -0.2
Sg 48 48.20
PLDF 1.51 33 Pg 48 32.57 -1.7
Sg 48 52.73
MAF 1.52 3 Pg 48 34.80 0.4
Sg 48 56.00
TCF 1.60 354 Pg 48 36.60 1.1
Sg 48 59.20
LSF 1.68 338 Pg 48 38.50 1.8
Sg 49 02.40
BGF 1.88 8 Pg 48 40.60 1.1
Sg 49 05.60
SMF 2.17 26 Pg 48 45.00 1.2
Sg 49 13.60
AVF 2.18 16 Pg 48 46.80 2.9X
Sg 49 15.60
EPF 2.26 223 Pg 48 45.80 0.6
Sg 49 15.20
SSF 2.47 17 Pg 48 52.00 3.9X
Sg 49 24.00
LOR 2.75 20 Pg 48 56.30 4.2X
Sg 49 32.00
S.D. = 1.4 on 12 of 16 obs.

• MAR 07, 1991 13h 40m 18.74± 1.81s
24.563 N ±11.0km 123.177 E ±17.5km
DEPTH = 31.7 ± 9.7 km
4.8mb (2 obs.)
SOUTHWESTERN RYUKYU ISLANDS (246)

TWC 1.21 272 iPc 40 40.50 1.0
eS 40 51.50
TWD 1.52 252 iPc 40 44.60 0.6
eS 40 59.20
TWZ 1.55 290 iPc 40 43.60 -0.8
eS 40 57.50
ANP 1.63 293 iPc 40 46.40 0.7
eS 41 01.90
TWQ 2.15 263 ePd 40 51.70 -1.5
eS 41 11.60
TWK 2.78 243 ePd 41 02.00 0.0
SSE 6.74 345 Pd 41 58.00 -0.1
0.5s 10.00nm 4.9mb
S 42 10.00
Lg 43 01.00
ASPA 49.06 167 iPd 49 05.00 0.0
0.6s 4.40nm 4.7mb
S.D. = 1.1 on 8 of 8 obs.

% MAR 07, 1991 13h 52m 21.67± 0.89s
31.177 S ± 8.6km 117.383 E ± 7.7km
DEPTH = 10.0km (geophysicist)

07d 13h

WESTERN AUSTRALIA (590)

KLB	0.52	142	iPd	52 32.90	0.6
			iS	52 39.00	
BAL	0.81	314	iPd	52 37.90	0.5
			iS	52 48.30	
MUN	1.28	231	iPd	52 44.90	-0.5
			iS	53 00.60	
NWAO	1.75	184	iPc	52 52.30	0.1
			iS	53 15.40	
RKG	2.90	186	eP	53 15.30	6.6X
COOL	3.24	86	eP	53 13.00	-0.6
			eS	53 52.00	
WARB	9.53	61	eP	54 38.00	-4.0X
			eS	56 18.00	

S.D. = 0.8 on 5 of 7 obs.

% MAR 07, 1991 13h 53m 47.59± 0.79s
42.321 N ± 6.0km 19.545 E ± 5.4km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.8 (TTG).

TTG	0.24	297	iPgc	53 52.91	0.3
			iSg	53 56.73	
PVY	0.42	49	iPgc	53 55.91	-0.3
			iSg	54 03.38	
ULC	0.42	212	iPgc	53 56.26	0.1
			iSg	54 03.36	
COV	0.53	266	iPgc	53 58.43	0.0
			iSg	54 06.59	
VA	0.61	25	iPgd	53 59.96	0.0
			iSg	54 09.49	
NKY	0.64	321	iPgc	53 59.63	-0.8
			iSg	54 10.03	
HCY	0.79	280	iPgd	54 02.64	-0.2
			iSg	54 14.71	
BRY	0.94	308	iPgd	54 05.64	0.0
			iSg	54 19.79	
PLE	1.01	354	iPgc	54 07.61	0.8

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

& MAR 07, 1991 14h 13m 21.41s
20.003 N 155.685 W
DEPTH = 33.4km
HAWAII (613)
<HVO-P>. ML 4.1 (HVO). Felt (IV) at Ahuoloo and (III) at Glenwood, Hilo, Mauna Kea Observatory and Waimea.

WKH	0.14	171	iPc	13 27.31	-0.5
KOH	0.15	325	iPc	13 27.06	-0.7
			iS	13 30.98	
KKU	0.34	109	iPc	13 29.18	-0.8
HUH	0.35	205	iPc	13 29.21	-0.9
HMH	0.44	155	iPc	13 30.22	-1.2
			iS	13 36.38	
WOB	0.47	168	iPc	13 30.79	-1.2
KIH	0.50	189	iPc	13 31.11	-1.1
			iS	13 37.22	
PLL	0.51	156	iPc	13 31.08	-1.4
MWH	0.52	171	iPc	13 31.00	-1.4
WIH	0.54	170	iPc	13 31.25	-1.8
			iS	13 38.41	
SWH	0.55	172	iPc	13 31.14	-2.1
CPH	0.56	203	iPd	13 31.17	-1.7
MLH	0.58	151	iPc	13 31.82	-1.5
			iS	13 39.09	
TRH	0.60	168	iPc	13 32.05	-1.7
HIL	0.63	117	iPd	13 32.10	-1.7
			iS	13 40.40	
MLX	0.63	149	iPc	13 32.49	-1.5
KFH	0.63	157	iPc	13 32.58	-1.4
DAH	0.64	179	iPc	13 32.39	-2.0
AIN	0.66	161	iPc	13 32.94	-1.5
UWE	0.68	147	iP	13 33.00	-1.7
			iS	13 41.00	
NGH	0.69	116	iPd	13 33.39	-1.2
CPK	0.69	151	iPc	13 33.19	-1.6
NPH	0.70	147	iPc	13 32.99	-1.9
			iS	13 41.17	
RIM	0.71	147	iPc	13 33.30	-1.8
OUT	0.72	148	iPc	13 33.30	-1.9
DES	0.72	157	iPc	13 33.41	-1.8
ESR	0.72	144	iPc	13 33.38	-1.9
AHA	0.74	148	iPc	13 33.65	-1.9
KHU	0.75	175	iPc	13 33.76	-2.0
KUH	0.75	194	iPc	13 33.85	-1.8
KNH	0.76	151	iPc	13 33.88	-1.9
PUH	0.76	145	iPc	13 33.77	-2.0
WOH	0.77	167	iPc	13 34.00	-1.9
MVH	0.77	130	iPd	13 34.38	-1.4
HLP	0.78	153	iPc	13 34.36	-1.7
MKA	0.80	142	iPc	13 34.57	-1.8
HTC	0.81	161	iPc	13 34.60	-1.7
PWH	0.84	149	ePc	13 34.78	-2.0
PPL	0.87	166	iPc	13 35.28	-1.9
HBH	0.88	122	iPd	13 35.83	-1.5
KAE	0.88	144	ePc	13 35.81	-1.6
HUL	0.88	131	iPd	13 35.67	-1.8
WHA	0.90	138	iPd	13 35.73	-1.9
PKL	0.90	127	ePd	13 36.00	-1.7
KPO	0.94	122	iPd	13 36.49	-1.7
POH	0.95	125	iPd	13 36.59	-1.8
SPT	1.02	179	iPc	13 37.09	-2.3

47 obs. associated

% MAR 07, 1991 14h 40m 13.43± 1.37s
59.894 N ±17.1km 8.928 E ± 8.9km
DEPTH = 0.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 2.3 (BER).

ODD1	1.16	272	iP	40 35.47	-0.6
			eSg	40 50.36	
NRA0	1.55	56	Pn	40 42.30	-0.1
			Sg	41 03.50	
HYA	1.86	314	eP	40 46.97	0.2
			eSg	41 12.55	
ASK	1.96	289	iP	40 49.07	0.9
			iSg	41 14.63	
KMY	2.00	252	eP	40 48.92	0.2
			eSg	41 16.07	
SUE	2.37	301	eP	40 53.62	-0.6
			eSg	41 26.52	

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

MAR 07, 1991 14h 50m 54.32± 0.85s
40.915 N ± 6.7km 22.987 E ± 7.5km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 2.7 (BER).

KNT	0.26	345	ePc	51 00.00	0.3
			iS	51 04.05	
THE	0.28	183	iPd	50 59.26	-1.0
			eS	51 03.90	
GRG	0.45	276	iP	51 03.42	0.0
SRS	0.50	66	ePc	51 03.92	-0.6
			iS	51 11.21	
PAIG	1.12	152	ePd	51 16.56	1.3

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

? MAR 07, 1991 15h 18m 48.66± 1.55s
63.648 N ±12.3km 9.090 E ±13.4km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 2.4 (BER).

RGS	0.87	135	eP	19 05.00	-0.4
			eS	19 16.50	
MOL	1.29	214	eP	19 12.34	-0.2
			iS	19 29.09	
NSS	1.54	54	eP	19 16.20	0.0
			eS	19 38.59	
NRA0	3.14	157	Pn	19 39.70	0.6
			Lg	20 30.50	

S.D. = 0.8 on 4 of 4 obs.

MAR 07, 1991 15h 34m 14.82± 0.61s
22.961 N ± 6.1km 120.550 E ± 6.5km
DEPTH = 14.4 ± 4.7 km
4.1mb (2 obs.)
TAIWAN (244)

TWM1	0.18	221	iPd	34 19.20	-0.1
			eS	34 22.70	
TWK	0.31	349	iPd	34 21.50	0.0
			eS	34 26.70	
TWG	0.50	106	iPc	34 24.80	0.0
			eS	34 32.70	
TWF1	0.79	60	iPc	34 29.80	0.0
			eS	34 41.50	
TWQ	1.33	11	iPc	34 38.40	-0.5
			eS	34 57.30	
TWD	1.47	41	ePc	34 41.30	0.5
TWC	2.03	36	eP	34 49.30	0.5
ANP	2.39	22	eP	34 54.90	0.8
SSE	8.12	4	e(P)	36 23.00	8.0X
	1.0s		26.00nm		5.4mb X
Z	14s		0.40um		4.2Msz
			sP	36 29.00	
			Lg	38 38.00	
CHTO	20.60	262	eP	38 56.20	0.1
	1.0s		2.25nm		3.5mb
ASPA	48.13	163	iPc	42 51.80	-4.5X
	0.6s		3.90nm		4.6mb

S.D. = 0.5 on 9 of 11 obs.

MAR 07, 1991 16h 59m 53.11± 0.36s
3.829 S ± 5.9km 151.442 E ± 6.8km
DEPTH = 10.0km (geophysicist)
4.7mb (7 obs.) 4.5Msz (1 obs.)
NEW IRELAND REGION (190)

RAB	0.81	116	iPd	00 08.00	-0.8
PMG	6.99	217	eP	01 38.00	-0.1
QIS	20.23	214	ePd	04 30.90	-0.4
RMQ	22.68	186	iPc	04 55.80	-0.3
WB2	23.11	225	iPd	05 00.50	0.1
	0.6s		15.80nm		4.7mb
WRA	23.12	225	iPd	05 00.50	0.0
	0.6s		15.80nm		4.7mb
DZM	23.25	143	iPd	05 03.10	1.3
BRS	23.47	177	iPc	05 05.00	1.2
ASPA	26.00	219	eP	05 26.60	-1.5
	1.4s		11.10nm		4.4mb
STK	29.40	197	eP	06 12.90	14.0X
	0.7s		3.60nm		
XAN	54.99	317	eP	09 26.50	-0.6
CHG	56.35	295	eP	09 37.30	0.2
			e	17 05.70	
CHTO	56.35	295	eP	09 37.60	0.5
	1.3s		6.94nm		4.5mb
LZH	59.59	316	eP	09 58.50	-1.3
	1.5s		23.00nm		5.1mb
Z	18s		0.29um		4.5Msz
GTA	64.03	317	eP	10 29.00	-0.5
	1.0s		10.00nm		5.0mb
LSA	66.58	305	P	10 47.40	0.8
GUN	70.46	301	P	11 11.40	0.8
PKI	70.78	301	P	11 13.20	0.7
KKN	70.94	301	P	11 13.80	0.4
DMN	71.05	301	P	11 14.80	0.7
GKN	71.55	301	P	11 15.60	-1.4
WMQ	74.11	318	eP	11 32.50	0.9
INK	88.04	21	eP	12 44.00	-0.5
YKA	95.20	28	eP	13 18.00	0.1
	0.6s		0.60nm		4.2mb
JACH	126.11	136	ePKP	18 49.40	-8.8X
PPD	146.00	140	ePKP	19 34.70	-0.2
VAO	147.84	147	(PKP)	19 41.00	3.1X

S.D. = 0.8 on 24 of 27 obs.

MAR 07, 1991 17h 11m 21.83± 0.41s
1.019 N ± 9.1km 120.115 E ± 8.9km
DEPTH = 36.4km (7 depth phases)
5.0mb (7 obs.) 3.9Msz (2 obs.)
MINAHASSA PENINSULA (265)

TSM	3.78	327	iPc	12 20.00	0.8
	0.3s		321.30nm		
MNI	4.74	85	e(P)	12 30.00	-2.9
MKS	6.23	186	ePc	13 04.50	10.7X
KKM	6.33	322	ePc	12 55.50	0.2
IPM	19.39	281	ePd	15 45.60	-2.3
NNT	23.24	301	eP	16 27.80	0.8
LOE	24.33	313	eP	16 37.00	-0.6
WRA	25.07	147	iPc	16 44.90	0.2
	0.7s		45.00nm		5.2mb
			i	16 54.80	36km
WB2	25.08	147	iPc	16 44.90	0.2
	0.7s		45.00nm		5.2mb
			i	16 54.80	36km
BDT	26.29	309	eP	16 54.20	-1.8
CHTO	27.27	312	iP	17 05.50	0.4
	1.2s		3.82nm		3.9mb X
			pP	17 14.80	33km
			sP	17 18.50	
WARB	27.77	167	eP	17 10.00	0.5

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ASPA    27.96 152 iPc    17 11.20    0.0
        0.6s     26.30nm          5.1mb
      Z 22s      0.20um           3.7Msz
                 i      17 22.30   42km
                 eS     21 53.60
OIS     28.71 139 iPd    17 18.30    0.3
KMI     29.26 326 Pd     17 24.50    1.4
        1.5s     40.00nm          4.9mb
LZH     38.02 338 eP     18 40.00    1.4
        1.5s     28.00nm          4.9mb
      Z 18s      0.29um           4.1Msz
                 pP     18 50.00   34km
                 sP     19 01.00
                 i      19 34.00
                 i      20 21.00
STK     38.53 150 iPd    18 59.50   16.7X
        0.8s     15.10nm
                 i      19 09.10   32km
BJI     39.00 355 eP     18 50.00    3.4X
MAT     39.12  23 eP     18 48.00    0.4
        1.1s     15.19nm          4.7mb
GUN     42.29 312 P      19 14.00   -0.3
PKI     42.46 312 P      19 15.60    0.0
KKN     42.67 312 P      19 18.40    1.2
DMN     42.70 311 P      19 17.20   -0.4
GKN     43.26 312 P      19 21.40   -0.6
COO     43.61 139 eP     19 26.00    1.4
HYB     43.99 294 iPd    19 27.50   -0.3
        1.0s     30.00nm          5.0mb
                 e      19 39.00   41km
GBA     44.04 289 P      19 28.00   -0.2
QUE     58.14 305 eP     21 13.80   -1.1
INK     95.07  21 eP     24 43.50    1.5
     S.D. = 1.2  on  26 of  29 obs.
-----------------------------------------
   MAR  07, 1991  17h 24m 54.20± 0.71s
    5.084 S ± 6.4km  153.621 E ± 6.0km
   DEPTH =  97.4 ±  6.8 km
   4.8mb (  6 obs.)
 NEW IRELAND REGION                (190)

RAB      1.70 301 iPd    25 23.00   -0.2
        0.4s   1220.34nm
                 iS     25 46.80
SVO      7.35 124 P      26 41.00    0.3
HNR      7.62 125 P      26 45.00    0.7
PMG      7.72 236 eP     26 45.00   -0.7
DZM     20.96 145 iPd    29 31.00   -0.4
BRS     22.20 182 iPc    29 45.00    1.4
WB2     23.87 230 eP     30 00.50    0.6
        0.3s     12.80nm          4.8mb
WRA     23.88 230 eP     30 00.50    0.5
        0.3s     12.80nm          4.8mb
COO     25.41 183 iPd    30 15.00    0.6
        0.7s     31.00nm          4.9mb
ASPA    26.50 224 iPc    30 23.90   -0.6
        0.5s      5.60nm          4.3mb
TCW     40.45 156 eP     32 25.20    0.6
MNG     40.46 154 eP     32 24.20   -0.6
MRW     40.64 155 eP     32 26.30    0.2
CAW     40.69 155 eP     32 26.50   -0.1
WDW     40.79 155 eP     32 26.70   -0.7
PGZ     40.81 153 eP     32 26.30   -1.3
MTW     40.92 155 eP     32 27.40   -1.0
LTZ     41.02 159 eP     32 29.50    0.1
KHZ     41.18 157 eP     32 29.50   -1.0
MSZ     41.37 165 eP     32 32.90    0.8
XAN     57.39 316 P      34 34.10   -0.8
CHTO    58.85 295 eP     34 45.20   -0.1
        1.0s     1.75nm           4.1mb
GTA     66.42 317 Pc     35 35.80    0.5
        0.6s     10.00nm          4.9mb
GUN     72.97 301 P      36 16.00    0.2
PKI     73.28 301 P      36 17.40   -0.2
KKN     73.45 301 P      36 21.80    3.4X
DMN     73.55 301 P      36 19.60    0.5
GKN     74.05 301 P      36 21.80    0.0
WMO     76.50 317 P      36 36.00    0.6
     S.D. = 0.7  on  28 of  29 obs.
-----------------------------------------
   MAR  07, 1991  18h 52m 40.83± 1.03s
   40.726 N ± 7.1km   29.877 E ± 7.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)

HRT      0.19 301 iPg    52 45.00    0.0
                 eSg    52 50.00
GBZT     0.33 281 ePg    52 47.20   -0.5
                 iSg    52 53.10
YLV      0.42 248 iPg    52 48.60   -0.7
IZI      0.50 219 iPg    52 50.00   -0.9
GPA      0.55 143 iPg    52 50.50   -1 4
ISK      0.71 299 iPg    52 54.20   -0.6
                 eSg    53 04.50
CTT      1.17 291 iPn    53 03.00    0.2
KCT      1.25 248 iPn    53 04.00   -0.2
DST      1.47 221 ePn    53 07.50    0.0
BNT      1.54 257 iPn    53 09.30    1.0
EDC      1.58 257 ePn    53 10.00    1.1
ALT      1.68 174 iPn    53 12.50    2.0
DMK      1.94 305 iPn    53 14.00   -0.1
KHL      2.42 187 ePn    53 21.10    0.0
     S.D. = 1.0  on  14 of  14 obs.
-----------------------------------------
&  MAR  07, 1991  18h 56m 52.10s
   59.980 N          152.634 W
   DEPTH = 100.5km
 SOUTHERN ALASKA                   (  2)
      <AEIC>.

RED      0.45 351 iPd    57 07.22   -0.7
                 eS     57 18.71
RSO      0.49 353 iPd    57 07.67   -0.7
                 eS     57 19.44
RS2      0.49 353 iPd    57 07.72   -0.6
                 eS     57 19.56
REF      0.51 356 iPd    57 07.88   -0.6
                 iS     57 19.98
RDN      0.54 353 iPd    57 07.98   -0.6
                 iS     57 19.98
HOM      0.60 122 ePc    57 08.60   -0.3
                 eS     57 21.67
NCT      0.60 346 iPd    57 08.27   -0.8
                 eS     57 20.48
RDT      0.61  11 iPd    57 08.24   -0.8
NNL      0.67  84 iPc    57 09.86    0.3
XLV      0.70 138 ePd    57 08.95   -0.9
                 eS     57 22.31
AUE      0.73 211 eP     57 09.22   -0.8
AUH      0.74 214 ePd    57 09.57   -0.7
AUI      0.76 212 ePd    57 09.48   -0.9
                 eS     57 22.50
PDB      0.81 257 iPd    57 10.10   -0.7
                 iS     57 23.77
CNPM     0.84 122 iPc    57 10.52   -0.7
                 eS     57 24.60
BRLK     0.91 103 ePc    57 11.15   -0.7
                 eS     57 25.87
NKA      1.03  42 ePc    57 14.24    1.1
CDD      1.17 207 iPd    57 13.54   -1.3
MCNL     1.18 228 iPd    57 13.71   -1.2
                 eS     57 29.85
CKL      1.23   7 iPd    57 14.90   -0.7
BGL      1.29   5 iPd    57 15.76   -0.6
CRP      1.31  10 iPd    57 16.07   -0.6
SLKM     1.31  65 eP     57 15.23   -1.3
SYI      1.38 175 iPd    57 16.14   -1.1
                 eS     57 34.84
NCG      1.45   9 iPd    57 17.57   -0.7
SEW      1.60  84 eP     57 18.69   -1.3
SUA      1.76  31 iPd    57 21.52   -0.6
SVW      1.86 309 eP     57 21.98   -1.4
PMS      1.98  49 ePc    57 23.83   -1.1
SKT      2.08  15 iPd    57 25.05   -1.2
                 eS     57 51.70
PWA      2.15  38 ePc    57 26.40   -0.8
PLRM     2.36  45 eP     57 27.81   -2.1
KNIM     2.48  79 eP     57 28.94   -2.6
KNK      2.51  53 ePd    57 29.84   -2.1
GHO      2.55  44 ePd    57 30.61   -2.1
KLU      3.63  62 eP     57 44.52   -2.8
TRF      3.66  17 eP     57 46.80   -1.0
TOA      3.80  53 eP     57 47.74   -1.8
RND      3.88  26 ePd    57 49.03   -1.7
BWN      4 46  18 ePd    57 57.38   -1.3
CCB      5.20  24 eP     58 06.17   -2.6
        41 obs. associoted
-----------------------------------------
?  MAR  07, 1991  19h 28m 47.37± 6.40s
   40.683 N ± 8.8km   29.891 E ±46.1km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)

HRT      0.22 309 iPg    28 51.50   -0.6
                 iSg    28 55.50
YLV      0.41 254 iPg    28 55.50   -0.3
                 eSg    29 02.50
IZI      0.47 223 iPg    28 57.00    0.0
                 iSg    29 04.70
ISK      0.74 301 ePg    29 02.00    0.2
                 eSg    29 12.00
CTT      1.20 293 ePn    29 10.50    0.7
     S.D. = 0.7  on   5 of   5 obs.
-----------------------------------------
   MAR  07, 1991  20h 02m 12.07± 0.28s
   51.812 N ± 8.2km  179.541 W ± 3.4km
   DEPTH =  90.9km  (  6 depth phases)
   4.9mb ( 22 obs.)
 ANDREANOF ISLANDS, ALEUTIAN IS. (  7)
      Felt (III) on Amchitka.

ADK      1.77  87 iPd    02 43.00    1.2
SMY      4.01 286 e(P)    03 12.00   -0.3
SDN     11.85  65 eP     04 58.70   -0.5
SVW     16.07  45 eP     05 56.20    2.5
PDB     16.25  51 eP     05 57.00    1.2
TTA     16.76  39 eP     06 05.20    2.9
PMR     19.17  47 e(P)   06 29.60   -1.1
IMA     19.33  33 eP     06 33.50    1.1
        0.7s     21.30nm          4.6mb
KLU     20.63  49 eP     06 44.70   -1.2
TOA     20.66  47 eP     06 46.10   -0.1
FBA     20.89  39 eP     06 49.00    0.6
        0.8s     34.48nm          4.7mb
BRW     22.08  19 eP     07 02.00    1.9
INK     27.37  36 eP     07 49.00   -1.0
MBC     33.38  22 ePc    08 44.00    1.0
        0.5s     18.00nm          5.2mb
MAT     33.40 260 iPd    08 43.90    0.3
        1.2s     26.56nm          5.0mb
YKA     35.27  47 eP     08 58.10   -1.2
        0.5s      5.60nm          4.7mb
GMW     36.17  74 eP     09 08.00    0.9
BMW     36.43  76 eP     09 10.00    0.7
LON     37.14  74 eP     09 15.80    0.5
PNT     37.21  69 iP     09 13.00   -2.8
        0.6s     11.00nm          5.0mb
EDM     39.01  61 eP     09 30.00   -0.8
NEW     39.17  70 eP     09 32.80    0.6
SNY     39.25 278 Pd     09 33.60    0.7
        0.8s     20.00nm          5.0mb
LBFM    40.00  82 eP     09 40.80    1.4
                 epP    10 02.40   91km
WDC     40.05  83 iPc    09 40.80    1.3
                 eScP   15 20.90
ORV     41.30  84 ePc    09 50.10    0.4
BRK     41.86  86 e(P)   09 54.40    0.1
BKS     41.87  86 iPc    09 53.60   -0.9
        0.7s    108.00nm          5.8mb
PCC     42.01  87 ePc    09 56.10    0.5
MHC     42.57  86 ePc    10 01.20    0.8
ARN     42.63  86 eP     10 01.30    0.5
CMB     42.92  85 ePc    10 04.00    0.9
                 eScP   15 32.80
SAO     43.06  87 e(P)   10 04.80    0.6
PRS     43.38  87 ePc    10 07.60    0.8
LLA     43.46  87 ePc    10 08.20    0.7
KVN     43.70  82 eP     10 10.00    0.4
PRI     43.94  87 eP     10 12.10    0.6
FRI     43.99  85 iPc    10 12.40    0.7
                 eScP   15 36.70
BONR    44.25  83 eP     10 15.40    1.2
BJI     44.83 281 eP     10 19.00    0.6
        1.0s     9.00nm           4.6mb
TNP     44.84  82 eP     10 19.50    0.7
        0.6s    16.67nm           5.0mb
ABL     45.67  87 eP     10 25.80    0.4
CLC     46.05  85 eP     10 28.00   -0.2
DUG     46.22  77 eP     10 30.00    0.4
BW06    46.61  72 eP     10 32.00   -0.7
                 epP    10 55.50   99km
SBB     46.64  86 eP     10 33.00    0.1
MWC     46.81  87 eP     10 35.00    0.7
GSC     46.87  85 eP     10 34.00   -0.7
DAU     47.03  76 eP     10 36.50    0.3
HHC     47.13 285 P      10 36.40   -0.3
MSU     47.66  78 eP     10 41.50    0.5
PLM     48.13  87 eP     10 45.00    0.4
TPC     48.13  86 eP     10 44.00   -0.5
BTO     48.21 286 eP     10 46.00    0.9
TIY     48.57 281 eP     10 48.00    0.2
```

07d 20h

BAR	48.70	88	eP	10	49.00	0.2
GOL	50.99	73	eP	11	06.20	-0.4
	0.8s	21.21nm				5.2mb
			epP	11	28.70	92km
FRB	52.90	31	ePc	11	19.30	-0.8
XAN	53.13	280	P	11	21.50	-0.8
ANMO	53.46	78	eP	11	24.40	-0.5
	0.9s	50.42nm				5.5mb
ALQ	53.46	78	ePc	11	24.30	-0.6
	1.0s	17.50nm				5.0mb
LZH	54.82	285	iPd	11	35.00	0.1
	1.0s	40.00nm				5.4mb
GTA	54.98	291	iPd	11	35.80	-0.1
	0.6s	40.00nm				5.6mb
CD2	58.44	281	P	12	00.00	-0.4
WMQ	58.72	302	eP	12	01.50	-0.8
GYA	59.82	275	P	12	04.60	-5.5X
SCH	59.98	38	eP	12	09.00	-1.7
FVM	60.79	65	eP	12	14.00	-2.4
OLY	61.95	68	eP	12	21.70	-2.6
ELC	61.96	65	eP	12	22.10	-2.2
GAC	63.03	50	ePd	12	28.50	-2.7
	0.5s	4.00nm				4.6mb
RSCP	65.21	64	eP	12	43.70	-1.9
GBTN	65.91	63	eP	12	48.50	-1.6
TKL	66.16	62	eP	12	50.00	-1.7
LSA	66.86	289	Pd	12	58.00	1.2
NB2	67.17	354	P	12	57.20	-0.5
	0.5s	0.70nm				3.8mb X
CVL	67.29	57	eP	12	57.50	-1.2
HFS	67.90	353	eP	13	01.00	-1.2
	0.4s	1.90nm				4.4mb
JSC	68.56	62	ePc	13	05.40	-1.3
CHG	70.24	275	eP	13	16.90	-0.3
GUN	71.27	291	P	13	24.20	0.5
KKN	71.70	292	P	13	26.80	0.7
PKI	71.79	291	P	13	27.10	0.3
GKN	71.91	292	P	13	27.40	0.1
DMN	71.94	292	P	13	28.20	0.6
	0.9s	51.00nm				5.4mb
QUE	79.76	306	eP	14	13.40	1.9
WB2	82.00	223	iPd	14	22.90	-0.1
	0.7s	4.30nm				4.4mb
			i	14	45.80	86km
			eS	22	23.80	
WRA	82.01	223	iPd	14	22.90	-0.2
	0.7s	4.30nm				4.4mb
			i	14	45.80	86km
			eS	22	23.80	
HYB	83.63	290	iPc	14	32.00	0.4
	1.0s	25.00nm				5.1mb
			e	14	56.50	92km
ASPA	85.50	222	iPc	14	31.60	-9.1X
	1.5s	4.90nm				4.3mb
			i	14	41.50	31kmX
GBA	87.29	288	P	14	49.30	-0.4
STK	90.05	212	eP	15	18.60	16.3X
	0.6s	3.80nm				
	S.D. = 1.1	on	89 of	92	obs.	

MAR 07, 1991 20h 21m 56.22± 0.59s
43.401 N ± 4.4km 5.446 E ± 4.4km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
MD 2.8 (STR).

GELF	0.02	217	Pg	21	57.94	-0.3
BERF	0.20	116	Pg	22	00.98	0.3
PUYF	0.23	55	Pg	22	00.68	-0.4
TREF	0.23	349	Pg	22	00.82	-0.3
CDR	0.36	40	iPg	22	02.80	-0.8
			i(Sg)	22	07.30	
PRAF	0.45	334	Pg	22	06.00	0.6
VILF	0.49	23	Pg	22	05.94	-0.3
TAVF	0.49	64	Pg	22	06.20	-0.1
CALN	1.11	71	Pg	22	17.54	0.5
MVIF	1.33	68	Pg	22	21.81	0.9
			Sg	22	41.70	
TOUF	1.44	64	Pn	22	23.04	0.5
AURF	1.45	70	Pn	22	22.78	0.2
AUTN	1.56	67	Pn	22	24.13	-0.1
			Sg	22	48.40	
SAOF	1.64	68	Pn	22	25.36	0.2
PGF	2.74	107	Pn	22	40.25	-0.9
	S.D. = 0.6	on	15 of	15	obs.	

• MAR 07, 1991 20h 58m 48.92± 1.74s
25.031 N ±20.1km 95.337 E ±16.4km
DEPTH = 109.0 ± 19.8 km
4.4mb (2 obs.)
BURMA-INDIA BORDER REGION (294)

CHG	7.03	151	eP	00	31.60	0.7
CHTO	7.03	151	eP	00	30.80	-0.1
GUN	8.95	291	P	00	57.60	0.4
PKI	9.26	288	P	00	59.00	-2.5X
	0.4s	10.00nm				5.0mb X
KKN	9.43	289	P	01	03.10	-0.5
DMN	9.53	288	P	01	05.00	0.0
GKN	10.03	289	P	01	10.80	-0.8
HYB	17.37	247	eP	02	46.50	0.5
WB2	58.64	136	iPc	08	35.70	-1.4
	0.3s	2.20nm				4.7mb
			i	09	24.40	
HFS	64.51	327	eP	09	17.20	1.3
	0.4s	1.10nm				4.1mb
	S.D. = 1.0	on	9 of	10	obs.	

MAR 07, 1991 21h 15m 41.18± 0.61s
40.989 N ± 5.3km 22.435 E ± 4.9km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 2.2 (THE).

GRG	0.04	219	iPd	15	43.57	0.3
VAY	0.35	17	iPg	15	48.20	-0.1
			iSg	15	53.40	
KNT	0.39	64	iPd	15	49.50	0.3
			eS	15	55.61	
THE	0.54	131	ePd	15	52.04	0.0
			iS	15	58.25	
SOH	0.72	103	ePd	15	54.20	-1.1
FNA	0.83	256	ePd	15	57.00	-0.2
SRS	0.88	81	ePd	15	58.68	0.5
			iS	16	19.29	
LIT	0.89	177	ePd	15	58.21	0.0
PAIG	1.42	138	ePd	16	07.48	0.4
	S.D. = 0.6	on	9 of	9	obs.	

• MAR 07, 1991 21h 53m 23.77± 1.03s
4.329 N ±10.6km 125.551 E ±17.9km
DEPTH = 174.5 ± 10.5 km
4.7mb (2 obs.)
TALAUD ISLANDS (263)

MNI	2.95	194	ePc	54	12.00	-0.1
CGP	4.19	348	eP	54	28.00	0.3
MTN	17.94	162	eP	57	22.00	-1.4
WRA	25.62	161	iPc	58	38.60	-0.3
	0.3s	26.20nm				5.4mb X
			eS	02	37.80	
WB2	25.63	161	iPc	58	38.60	-0.3
	0.3s	26.20nm				5.4mb X
			eS	02	37.80	
OIS	28.32	151	eP	59	03.00	-0.3
ASPA	28.99	164	iPc	59	09.30	0.0
	0.3s	15.20nm				5.2mb
			eS	03	46.20	
CHG	29.71	301	eP	59	16.80	1.1
CHTO	29.71	301	iP	59	16.70	1.0
	1.0s	5.75nm				4.3mb
WARB	30.35	178	eP	59	22.10	0.9
STK	39.11	158	eP	00	53.10	17.4X
	0.9s	9.20nm				
BFO	44.23	160	ePd	01	19.40	2.1
GUN	44.42	306	P	01	19.60	0.1
PKI	44.67	306	P	01	20.60	-0.8
KKN	44.86	306	P	01	22.80	0.0
DMN	44.93	305	P	01	22.10	-1.2
GKN	45.47	306	P	01	26.40	-1.1
	S.D. = 1.0	on	16 of	17	obs.	

& MAR 07, 1991 22h 44m 18.20s
58.151 N 142.815 W
DEPTH = 10.0km (geophysicist)
3.2mb (1 obs.)
GULF OF ALASKA (15)
<AEIC>.

YAH	2.29	13	iP	44	43.58	-5.2
TGL	2.61	360	eP	44	47.41	-5.9
BALM	2.90	5	eP	44	51.95	-5.5
CTGM	2.92	14	eP	44	52.11	-5.6
MTU	3.10	308	iP	44	54.56	-5.5
			S	45	29.77	
GLB	3.34	352	iP	44	57.87	-5.7
			S	45	35.55	
KNIM	3.35	313	eP	44	57.23	-6.5
			S	45	34.55	
KLU	3.70	336	eP	45	03.05	-5.7
KNK	4.34	321	iP	45	12.69	-5.0
SLKM	4.47	305	eP	45	13.64	-5.9
CNPM	4.59	291	eP	45	16.32	-4.9
PLRM	4.69	320	eP	45	18.27	-4.4
GHO	4.75	322	eP	45	18.13	-5.5
RDT	5.47	300	iP	45	29.34	-4.5
REF	5.58	299	eP	45	28.88	-6.5
RED	5.59	298	eP	45	30.46	-5.0
RDN	5.62	299	iP	45	30.18	-5.7
CKL	5.71	306	eP	45	31.94	-5.2
NCT	5.71	299	eP	45	32.15	-5.0
CDD	5.73	282	eP	45	33.17	-4.1
NCG	5.73	309	eP	45	32.04	-5.5
BGL	5.76	307	eP	45	32.68	-5.2
SKT	5.81	315	eP	45	33.03	-5.4
PDB	6.11	290	eP	45	37.68	-5.0
YKA	14.56	61	eP	47	39.80	1.9
	0.8s	0.60nm				3.2mb
	25 obs. associated					

% MAR 08, 1991 00h 36m 38.25± 0.74s
42.055 N ± 5.6km 12.924 E ± 6.4km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

RDP	0.33	208	P	36	45.20	0.0
			eSg	36	50.10	
MNS	0.38	331	Pd	36	46.30	0.3
			eSg	36	52.00	
AZI	0.39	100	P	36	46.10	-0.1
			eSg	36	51.40	
AOU	0.46	50	P	36	47.90	0.2
			eSg	36	55.40	
ASS	1.03	349	Pc	36	57.30	-0.5
			eSg	37	13.00	
ARV	1.44	1	P	37	04.50	0.1
			eSn	37	23.50	
	S.D. = 0.4	on	6 of	6	obs.	

MAR 08, 1991 00h 45m 04.46± 0.68s
42.417 N ± 5.6km 19.803 E ± 5.4km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.0 (TTG).

PVY	0.22	35	iPgd	45	08.61	-0.6
			iSg	45	12.74	
TTG	0.40	272	iPgc	45	11.89	-0.8
			iSg	45	18.94	
IVA	0.46	9	iPgd	45	13.81	0.0
			iSg	45	20.47	
ULC	0.61	222	iPgc	45	16.09	-0.7
			iSg	45	27.54	
NKY	0.71	304	iPgc	45	19.31	0.7
			iSg	45	32.02	
BDV	0.74	260	iPgd	45	19.16	0.3
			iSg	45	30.62	
HCY	0.97	272	iPgd	45	22.91	0.1
			iSg	45	39.99	
BRY	1.05	298	iPgd	45	24.71	0.4
SKO	1.29	110	ePn	45	48.00	19.6X
OHR	1.50	150	ePn	45	32.20	0.7
	S.D. = 0.7	on	9 of	10	obs.	

MAR 08, 1991 01h 42m 00.33± 0.23s
7.230 N ± 4.7km 93.447 E ±3.8km
DEPTH = 52.7km (13 depth phases)
5.0mb (33 obs.)
NICOBAR ISLANDS REGION (704)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 26C
Centroid Location:
Origin Time 01:42: 2.8 0.6
Lat 7.41N 0.07 Lon 93.48E 0.07
Dep 33.0 FIX Half-duration 1.6
Moment Tensor; Scale 10**16 Nm
Mrr=-0.69 0.39 Mtt=-5.16 0.43
Mff= 5.85 0.54 Mrt= 3.34 0.64
Mrf=-6.05 0.89 Mtf=-2.58 0.46
Principal Axes:

T Vol= 10.46 Plg=31 Azm= 73
N -3.47 43 309
P -6.98 31 185
Best Double Couple:Mo=8.7*10**16
NP1:Strike=219 Dip=43 Slip= 0
NP2: 309 90 -133

SNG 7.11 90 eP 43 43.50 -0.8
1.2s 671.88nm 6.2mb X
e 44 55.00
IPM 7.99 109 ePc 43 55.90 -0.5
0.9s 137.90nm 5.8mb
e 45 23.90
NNT 8.17 49 iPc 44 00.80 1.8
KHT 9.05 33 iPc 44 10.80 -0.3
KLM 9.14 116 eP 44 12.50 0.2
e 45 49.00
NST 10.64 37 iPd 44 35.00 2.1
KGM 11.12 117 eP 44 39.50 0.1
BDT 11.34 28 eP 44 39.60 -2.7
1.0s 97.20nm 5.8mb
CHG 12.70 24 iPd 45 00.90 0.4
0.9s 52.52nm 5.5mb
eS 47 24.00
CHTO 12.70 24 iPc 45 00.20 -0.3
0.9s 106.56nm 5.8mb
KOD 16.07 282 eP 45 45.10 0.3
GBA 16.97 293 Pd 45 54.90 -0.8
0.3s 5.20nm 4.1mb
HYB 17.71 306 eP 46 06.00 1.0
1.0s 40.00nm 4.5mb
KMI 19.89 25 Pc+ 46 31.00 0.5
1.0s 400.00nm 5.7mb
Z 30s 1.80um 4.5Msz
S 50 04.00
PKI 21.62 340 P 46 47.40 -0.9
0.4s 16.00nm 4.8mb
DMN 21.76 340 P 46 49.80 0.2
0.4s 26.00nm 5.0mb
GUN 21.78 342 P 46 49.20 -0.7
0.4s 20.00nm 4.9mb
KKN 21.86 340 P 46 49.80 -0.8
POO 22.13 302 eP 46 54.50 1.4
GKN 22.28 339 P 46 54.20 -0.5
0.4s 14.00nm 4.7mb
KKM 22.65 92 ePc 47 01.90 3.6X
TSM 24.68 96 ePc 47 17.00 -0.9
HKC 24.97 51 eP 47 21.60 1.0
NDI 26.27 326 eP 47 34.00 1.4
eS 52 26.00
PGP 27.75 75 eP 47 48.00 1.8
BAG 28.05 69 eP 47 49.40 0.2
CGP 30.98 86 eP 48 15.00 -0.1
QUE 33.76 316 eP 48 42.00 2.5
e(S) 54 30.50
KUPT 34.64 120 eP 48 35.40 -11.5X
BJI 38.50 28 eP 49 20.00 0.9
1.0s 124.00nm 5.7mb
Z 22s 0.92um 4.6Msz
pP 49 40.00 84kmX
ePP 50 56.00
eS 55 06.00
eSS 57 52.00
KLB 45.06 150 eP 50 14.00 1.1
NWAO 45.90 152 eP 50 21.00 1.4
WRA 48.46 125 eP 50 38.50 -1.4
0.5s 26.90nm 5.5mb
eScP 55 54.50
iS 57 30.20
WB2 48.47 125 eP 50 38.50 -1.4
0.5s 26.90nm 5.5mb
eScP 55 54.50
iS 57 30.20
ASPA 50.04 129 iPc 50 51.20 -0.8
0.9s 30.80nm 5.3mb
Z 23s 0.60um 4.5MszX
iS 57 53.80
eScS 00 36.40
MAT 50.10 48 eP 50 52.00 -0.3
FORR 50.35 141 eP 50 54.00 -0.1
QIS 53.10 122 eP 51 14.00 -1.1
DSI 59.13 302 eP 51 59.00 0.8
PRNI 59.23 301 eP 52 00.00 1.1
RMN 59.57 301 eP 52 02.00 0.7
ADE 59.85 138 eP 52 04.00 0.9
0.6s 186.67nm 6.4mb X
STK 60.17 133 eP 52 21.10 15.9X

1.0s 16.80nm
HLW 62.28 300 eP 52 34.50 14.9X
RMO 63.22 124 iPc 52 25.60 -0.2
YLV 65.70 311 eP 52 40.00 -1.8
TOO 65.86 137 eP 52 42.00 -0.8
BRS 66.87 124 iPc 52 49.50 0.0
COO 67.39 127 eP 52 53.40 0.7
HNR 68.29 103 eP 52 58.00 -0.5
VRI 68.69 316 ePd 53 00.50 0.0
MLR 69.15 316 ePc 53 13.80 10.3X
BUL 69.29 245 iPd 53 07.00 2.2
0.8s 7.84nm 4.7mb
ipP 53 20.60 48km
BFT 69.70 239 iPc 53 09.50 2.2
0.5s 14.08nm 5.1mb
KNT 70.64 311 ePc 53 11.80 -0.7
i 53 26.00 50km
AGG 70.82 309 ePc 53 07.10 -6.6X
LIT 70.82 310 ePc 53 12.30 -1.4
i 53 27.20 53km
VAY 70.91 311 eP 53 13.00 -1.1
i 53 27.70 52km
SLR 71.22 240 iPc 53 15.50 -1.0
SKO 71.83 312 iP 53 32.50 12.9X
OHR 72.21 311 eP 53 20.00 -2.0
0.9s 42.00nm 5.4mb
i 53 34.50 51km
PRY 72.28 239 eP 53 20.00 -2.8
KAF 73.05 333 eP 53 25.00 -1.4
NUR 73.37 331 eP 53 44.00 15.8X
0.8s 16.10nm
PSZ 73.65 318 e(P) 53 30.60 0.3
KRA 73.91 320 eP 53 31.10 -0.5
0.9s 32.00nm 5.3mb
e 53 45.60 51km
BCAO 74.51 273 iPc 53 38.10 2.3
0.7s 18.00nm 5.1mb
i 53 52.20 49km
i 54 25.80
SOD 74.55 338 iP 53 33.40 -1.6
i 53 51.20 65kmX
KEV 75.21 341 eP 53 44.00 5.2X
e 53 51.00 22kmX
ZST 75.54 318 eP 53 40.90 -0.2
i 53 54.90 49km
UPP 76.67 330 iP 53 46.20 -0.9
i 54 02.70 59km
PRU 77.37 320 Pc 54 06.20 15.0X
BRG 77.80 320 e(P) 53 53.40 -0.2
KHC 77.94 319 eP 53 55.20 0.7
e 54 09.80 51km
BHG 78.35 317 eP 53 56.70 0.0
FVI 78.37 316 P 54 10.60 13.8X
CLL 78.42 321 eP 54 11.00 14.0X
1.8s 31.00nm
HFS 78.66 330 eP 53 57.00 -1.1
1.3s 25.80nm 5.0mb
CTI 79.15 315 P 54 16.20 15.0X
MOX 79.27 320 eP 54 16.00 14.3X
1.6s 34.00nm
FIR 79.41 313 eP 54 17.00 14.5X
GRF 79.50 319 iPc 54 03.40 0.4
1.0s 9.00nm 4.7mb
e 54 18.10 51km
OGA 79.59 316 iPc 54 04.00 0.3
NB2 79.95 331 P 54 03.90 -1.3
0.8s 7.20nm 4.7mb
VAI 81.16 315 P 54 26.10 14.4X
CDF 82.10 318 eP 54 16.10 -0.7
ILT 82.54 22 eP 54 34.00 15.5X
Z 20s 0.50um 4.9Msz
i 54 46.00 40kmX
i 55 18.00
eS 04 24.00
eLR 30 40.00
LPG 82.58 315 eP 54 19.40 -0.2
0.8s 6.70nm 4.7mb
LPL 82.60 315 eP 54 19.40 -0.2
0.8s 9.40nm 4.9mb
BNI 82.66 314 P 54 37.10 17.3X
HAU 82.74 317 eP 54 19.40 -0.6
0.7s 5.50nm 4.7mb
LBF 84.41 317 eP 54 28.30 -0.2
LOR 84.47 317 eP 54 28.60 -0.2
0.7s 4.40nm 4.6mb
SMF 84.53 316 eP 54 29.00 -0.1
AVF 84.85 316 eP 54 30.50 -0.2

0.8s 4.05nm 4.6mb
BGF 85.22 316 eP 54 32.70 0.1
0.9s 11.45nm 5.0mb
MAF 85.45 316 eP 54 33.80 0.1
LPO 86.58 314 eP 54 40.00 0.7
LPF 87.68 318 eP 54 43.90 -0.6
1.0s 12.00nm 5.1mb
EKA 87.86 325 Pc 55 00.90 15.7X
0.8s 11.10nm
DAG 87.98 348 iPc 54 44.70 -0.8
0.7s 9.59nm 5.1mb
BRW 89.43 18 eP 54 53.30 0.8
IMA 92.48 22 eP 55 07.90 1.1
1.1s 17.60nm 5.4mb
TTA 92.76 25 eP 55 09.20 1.1
SVW 93.60 27 eP 55 13.60 1.6
MBC 94.49 7 eP 55 16.00 0.3
1.0s 7.00nm 5.0mb
pP 55 33.00 59km
INK 97.80 16 eP 55 30.50 -0.4
pP 55 48.00 62km
YKA 107.21 13 ePKP 00 31.40 9.5X
0.8s 1.00nm
ALO 134.04 23 ePKP 01 14.00 -0.3
PPD 142.99 243 ePKP 01 32.20 1.4
PCH 149.83 207 ePKP 01 47.50 5.7X
LNV 149.95 206 ePKP 01 47.00 5.3X
TACH 150.00 207 ePKPd 01 47.70 5.8X
PEL 150.31 208 ePKPd 01 48.60 6.2X
ROCH 150.60 207 ePKP 01 49.00 5.9X
SIV 153.59 248 PKP 01 55.20 7.6X
ZOBO 159.86 242 ePKP 01 47.00 -9.1X
Z 20s 0.40um 5.3Msz
i 02 13.00
LR 52 08.00
S.D. = 1.1 on 90 of 117 obs.

% MAR 08, 1991 01h 43m 26.87± 2.24s
18.630 N ±24.5km 66.642 W ± 7.1km
DEPTH = 33.0km (normal)
PUERTO RICO REGION (90)
Felt at Arecibo.

MCP 0.49 245 P 43 37.60 0.2
S 43 47.60
PORP 0.57 180 P 43 38.90 0.4
SJG 0.70 138 iP 43 40.40 0.1
S 43 52.10
MGP 0.75 215 P 43 40.50 -0.5
S 43 52.00
LPR 0.80 113 P 43 41.80 0.1
CPD 0.91 130 P 43 43.00 -0.3
S 43 56.80
S.D. = 0.4 on 6 of 6 obs.

% MAR 08, 1991 02h 16m 03.79± 0.59s
40.727 N ± 5.1km 29.016 E ± 5.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YLV 0.31 120 ePg 16 10.30 -0.1
ISK 0.34 6 iPg 16 11.30 0.5
eSg 16 16.30
HRT 0.50 79 iPg 16 13.80 -0.2
iSg 16 18.30
IZI 0.52 138 iPg 16 14.30 -0.1
CTT 0.61 314 iPg 16 15.80 -0.3
eSg 16 16.30
BNT 0.91 246 ePg 16 21.00 -0.3
DST 1.16 195 ePn 16 26.00 0.5
S.D. = 0.4 on 7 of 7 obs.

? MAR 08, 1991 02h 25m 00.39± 4.66s
21.152 S ±24.5km 169.676 E ±41.4km
DEPTH = 60.3 ± 24.4 km
5.0mb (4 obs.)
LOYALTY ISLANDS REGION (189)

DZM 3.14 252 iPc 25 48.60 0.0
iS 26 25.00
PVC 3.63 339 iP 25 54.50 -0.9
iS 26 39.00
BKM 3.72 338 iP 25 57.40 0.7
iS 26 42.50
BRS 16.61 245 iP 28 54.00 3.2X
COO 18.53 236 eP 29 17.00 2.5X
CMS 23.68 239 iPc 30 09.40 2.0

08d 02h

	0.9s	41.00nm			4.9mb
OLP	23.87	252 eP	30	09.00	-0.2
PMG	24.62	295 eP	30	18.00	1.4
	1.0s	80.00nm			5.2mb X
STK	27.23	241 eP	30	57.70	17.0X
	0.8s	7.20nm			
2	33.06	266 iPc	31	31.00	-1.5
	0.6s	17.60nm			5.1mb
		iPcP	32	47.00	
WRA	33.07	266 iPc	31	31.00	-1.6
	0.6s	17.60nm			5.1mb
		iPcP	32	47.00	
ASPA	33.12	259 iPd	31	32.30	-0.7
	1.0s	45.80nm			5.3mb X
Z	23s	0.20um			3.8MszX
CHTO	79.82	295 iP	37	05.70	1.5
	0.9s	4.26nm			4.4mb
ZST	145.18	327 ePKP	44	31.80	-0.8
BCAO	147.42	243 iPKPc	44	40.70	3.4X
	0.5s	8.00nm			
		i	45	04.80	

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

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* MAR 08, 1991 02h 26m 46.36± 0.73s
33.564 S ±17.7km 14.454 W ± 9.7km
DEPTH = 10.0km (geophysicist)
4.9mb (9 obs.)
SOUTH ATLANTIC RIDGE (410)

BAO	35.12	292 ePd	33	42.00	-0.3
BUL	40.40	82 iPd	34	26.90	0.4
	0.9s	12.18nm			4.6mb
LIC	40.57	15 Pc	34	27.42	-0.3
	1.1s	24.50nm			4.8mb
KIC	40.76	15 Pc	34	28.94	-0.3
	1.9s	35.50nm			4.8mb
TIC	40.98	14 P	34	30.72	-0.3
SIV	45.39	281 P	35	08 20	1.2
BCAO	49.00	46 iPd	35	35.20	-0.1
	1.0s	20.00nm			5.1mb
		i	35	43.90	
CNCB	50.69	275 P	35	49.00	0.1
LPB	50.92	276 P	35	55.00	4.5X
ZOBO	51.07	276 eP	35	51.00	-0.9
ARE	53.78	274 eP	36	12.00	0.2
LPG	81.01	15 eP	39	03.00	0.2
LPL	81.02	15 eP	39	02.90	0.1
BGF	81.27	12 eP	39	02.90	-0.8
	0.9s	10.65nm			4.9mb
SMF	81.53	13 eP	39	05.40	0.3
	1.1s	20.75nm			5.1mb
AVF	81.58	12 eP	39	05.80	0.5
	0.9s	10.65nm			4.9mb
LBF	81.88	13 eP	39	07.20	0.2
	1.0s	12.00nm			4.9mb
EKA	89.07	6 P	39	44.00	1.6
	1.0s	5.90nm			4.8mb
YKA	123.76	327 ePKP	45	44.00	-1.1
	0.8s	0.90nm			
INK	131.43	334 ePKPd	46	00.50	0.9
ILT	144.44	350 ePKP	46	22.00	-1.5

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

% MAR 08, 1991 02h 27m 28.15± 2.18s
42.902 N ±10.4km 18.538 E ±14.7km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.1 (TTG).

BRY	0.00	106 iPgd	27	29.00	-1.1
		iSg	27	30.50	
NKY	0.35	105 iPgc	27	35.30	-0.1
		iSg	27	41.28	
HCY	0.46	184 iPgc	27	37.15	-0.3
		iSg	27	44.10	
BDV	0.65	161 iPgd	27	41.31	0.1
		iSg	27	51.10	
TTG	0.71	131 iPgd	27	41.50	-0.7
		iSg	27	52.85	
PLE	0.76	55 iPgd	27	43.73	0.7
		iSg	27	54.85	
IVA	1.00	91 iPgc	27	48.06	0.9
		iSg	28	02.21	
ULC	1.08	150 iPgc	27	48.95	0.5
		iSg	28	04.03	
PVY	1.10	106 iPgd	27	48.91	0.0
		iSg	28	04.81	

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

MAR 08, 1991 03h 07m 55.06± 0.96s
26.976 N ± 5.2km 127.411 E ± 5.7km
DEPTH = 107.3 ± 8.0 km
5.0mb (42 obs.)
RYUKYU ISLANDS (238)

SSE	6.82	308 Pd	09	34.50	0.4
	0.9s	35.00nm			4.8mb
		eS	10	50.00	
OZH	8.19	258 P	09	53.00	0.2
NJ2	9.01	306 Pd	10	04.00	0.2
	1.0s	100.00nm			5.6mb
CVP	10.58	210 eP	10	24.00	-0.9
MAT	13.23	41 (P)	10	58.00	-1.8
SNY	15.15	349 iPc	11	26.10	1.8
	1.2s	100.00nm			4.9mb
BJI	16.03	327 eP	11	36.50	1.1
	1.2s	54.00nm			4.7mb
TIY	16.55	314 Pd	11	43.40	1.3
CN2	16.86	355 Pd	11	46.80	1.0
		pP	11	56.80	
XAN	17.41	298 Pd	11	52.10	-0.5
HHC	19.05	321 P	12	11.00	-0.5
BTO	19.79	318 P	12	18.00	-1.3
CD2	21.06	286 eP	12	30.00	-2.1
		pP	12	54.80	128kmX
		S	16	16.50	
LZH	22.00	300 P	12	42.00	0.4
	1.5s	40.00nm			4.5mb
Z	30s	0.30um			3.5MszX
GTA	26.10	305 iPd	13	19.00	-1.6
	0.8s	20.00nm			4.7mb
CHG	27.41	259 eP	13	33.00	0.5
CHTO	27.41	259 eP	13	33.20	0.7
	1.0s	9.25nm			4.3mb
WMQ	36.08	308 P	14	47.00	-1.1
GUN	36.75	281 P	14	54.00	-0.2
PKI	37.21	281 P	14	57.80	-0.3
	0.6s	22.00nm			5.2mb
KKN	37.29	281 P	14	58.40	-0.2
DMN	37.47	281 P	14	59.80	-0.4
	0.8s	34.00nm			5.3mb
GKN	37.82	282 P	15	02.40	-0.6
HYB	45.99	269 ePc	16	09.50	0.0
WRA	47.12	171 iPd	16	18.50	0.3
	0.7s	24.90nm			5.1mb
WB2	47.12	171 iPd	16	18.50	0.3
	0.7s	24.90nm			5.1mb
GBA	48.43	264 P	16	29.10	0.6
OIS	48.71	165 iPc	16	30.70	0.2
		e	16	55.00	
ASPA	50.73	172 iPc	16	46.40	0.4
	1.0s	10.90nm			4.8mb
ILT	51.93	23 iP	16	53.00	-1.5
	1.3s	25.00nm			5.0mb
QUE	52.65	289 eP	17	00.50	-0.1
	0.8s	283.58nm			6.3mb X
STK	60.07	166 eP	18	09.60	16.6X
	1.1s	4.30nm			
SVW	60.52	33 eP	17	57.10	1.3
IMA	61.19	27 eP	18	00.60	0.2
	1.0s	11.20nm			4.8mb
PMR	63.58	32 eP	18	16.30	0.2
FBA	63.73	28 eP	18	17.80	0.7
KEV	68.48	338 iP	18	46.30	-0.9
	0.8s	13.20nm			4.9mb
INK	68.50	23 eP	18	47.00	-0.3
	0.8s	20.00nm			5.0mb
MBC	69.28	14 iPd	18	51.20	-0.8
	0.7s	24.00nm			5.1mb
SOD	69.43	336 iP	18	52.00	-1.0
KAF	71.50	331 iP	19	04.20	-1.4
	0.7s	5.80nm			4.5mb
NUR	72.87	330 eP	19	12.00	-1.7
	0.7s	16.00nm			4.9mb
DAG	74.44	352 iPc	19	21.70	-0.8
	0.8s	14.93nm			4.9mb
UPP	76.29	331 iP	19	32.80	-0.4
HFS	77.82	332 eP	19	40.30	-1.4
	0.7s	10.00nm			4.7mb
DSI	77.99	299 eP	19	44.00	0.7
VRI	78.04	315 ePc	19	44.00	0.7
YKA	78.16	25 eP	19	43.90	0.3
	0.8s	4.10nm			4.3mb
N82	78.32	334 P	19	43.10	-1.5
	0.7s	13.70nm			4.9mb
MKT	78.43	299 eP	19	46.00	0.3
MLR	78.70	315 ePd	19	47.50	0.4
RMN	79.02	299 eP	19	49.00	-0.1
KRA	80.08	321 eP	19	54.60	0.4
	0.6s	25.00nm			5.2mb
		e	19	56.90	
ZST	82.64	321 iP	20	10.40	2.8
VAY	82.84	313 eP	20	09.00	0.2
BRG	82.88	324 iPc	20	10.00	1.2
	1.0s	30.00nm			5.2mb
PRU	83.07	323 eP	20	10.50	0.8
	0.9s	11.20nm			4.8mb
		e	20	21.00	
CLL	83.12	325 iPc	20	10.60	0.6
	1.1s	20.00nm			4.9mb
SKO	83.25	314 eP	20	12.00	1.1
KHC	84.07	323 P	20	16.80	1.9
OHR	84.10	313 eP	20	14.30	-1.0
MOX	84.22	325 iPc	20	16.50	0.9
	1.2s	23.00nm			5.0mb
HOF	84.28	324 iPc	20	16.90	1.0
	1.0s	24.00nm			5.1mb
GRF	84.99	324 eP	20	20.10	0.6
	1.0s	41.00nm			5.3mb
BHG	85.26	322 iPc	20	22.20	1.3
	0.9s	54.00nm			5.5mb
KBA	85.38	321 iPc	20	21.90	0.2
	0.6s	10.40nm			5.0mb
		i	20	25.60	
FUR	85.87	323 iPc	20	25.60	1.7
	0.8s	37.00nm			5.4mb
OGA	86.78	322 iPc	20	29.30	0.7
	0.8s	23.00nm			5.2mb
CDF	87.83	325 eP	20	33.40	-0.1
	0.9s	18.00nm			5.1mb
SNF	87.94	328 P	20	34.20	0.4
DOU	88.07	327 P	20	34.50	0.0
	0.9s	32.50nm			5.4mb
FFC	88.25	26 eP	20	36.00	0.7
	0.5s	6.00nm			4.9mb
BSF	88.45	325 eP	20	35.60	-0.9
	0.8s	8.05nm			4.8mb
FIR	88.50	319 eP	20	37.00	0.4
HAU	88.56	325 eP	20	36.30	-0.6
FRB	88.71	7 ePc	20	36.80	-0.4
LPL	89.96	323 eP	20	42.60	-1.2
	0.8s	8.05nm			4.9mb
LPG	89.96	323 eP	20	42.90	-1.0
	0.6s	8.55nm			5.0mb
SMF	90.74	325 eP	20	45.60	-1.5
	0.7s	4.95nm			4.8mb
LDF	91.35	328 eP	20	48.60	-1.2
	0.8s	13.45nm			5.2mb

S.D. = 1.0 on 79 of 80 obs.

MAR 08, 1991 03h 47m 38.16± 0.79s
46.731 N ± 7.5km 112.708 W ± 7.1km
DEPTH = 5.0km (geophysicist)
MONTANA (456)
ML 3.1 (BUT).

HRY	0.60	92 ePd	47	50.60	0.3
		eS	48	01.20	
BUT	0.73	172 ePn	47	53.10	0.4
		iPg	47	54.70	
		iSn	48	06.10	
		iSg	48	08.50	
LRM	0.93	169 iPnd	47	56.80	0.3
HBMT	0.94	176 ePnd	47	56.70	-0.1
BGMT	1.57	163 ePnd	48	06.10	-0.9
MEMT	1.65	132 ePn	48	07.90	-0.2
NEW	3.36	299 e(P)	48	31.30	-1.1
DPW	3.91	289 e(P)	48	41.50	1.3

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

? MAR 08, 1991 05h 08m 18.08± 2.92s
6.689 S ±35.0km 146.148 E ±41.0km
DEPTH = 89.7 ± 37.4 km
4.3mb (3 obs.)
EAST PAPUA NEW GUINEA REGION (207)

YYYY	0.48	338 iPd	08	33.00	0.0
MNDI	2.53	282 eP	09	02.00	3.8X
PMG	2.88	160 eP	09	02.80	0.0
OIS	15.18	204 iPc	11	54.40	5.6X
WB2	17.46	220 iPd	12	17.40	0.0

0.5s 11.50nm 4.4mb
epP 12 24.40
WRA 17.46 220 iPd 12 17.40 0.0
0.5s 11.50nm 4.4mb
epP 12 24.40
ASPA 20.58 214 eP 12 52.00 0.0
0.4s 5.90nm 4.3mb
eS 16 40.20
STK 25.42 189 eP 13 56.20 17.2X
0.5s 1.60nm
S.D. = 0.1 on 5 of 8 obs.

MAR 08, 1991 05h 25m 43.04± 0.52s
41.995 N ± 5.5km 24.289 E ± 4.7km
DEPTH = 10.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)
MD 3.3 (THE).

PLD 0.33 70 iPgd 25 51.00 1.2
RZN 0.44 134 iPgd 25 51.00 -1.1
PGB 0.56 351 iPgc 25 54.00 -0.5
MMB 0.58 226 iPgc 25 53.00 -1.9
DIM 0.93 86 ePg 26 00.00 -0.8
VTS 1.00 307 iPg 26 02.00 -0.1
SRS 1.02 211 iPc 26 01.33 -1.0
eS 26 15.88
KNT 1.33 232 ePd 26 07.48 -0.2
eS 26 25.08
SOH 1.37 211 ePd 26 07.50 -0.7
eS 26 27.00
PVL 1.44 32 iPd 26 09.00 -0.2
VAY 1.45 243 ePn 26 10.40 1.1
THE 1.69 217 ePd 26 13.20 0.5
iS 26 36.74
ALN 1.72 129 ePc 26 14.96 1.9
eS 26 38.12
GRG 1.76 234 iPc 26 15.32 1.6
PAIG 2.12 193 ePd 26 20.00 1.1
DMK 2.59 93 ePn 26 24.80 -1.0
OHR 2.76 253 ePn 26 34.00 5.8X
MLR 3.70 18 ePc 26 46.50 5.0X
S.D. = 1.2 on 16 of 18 obs.

? MAR 08, 1991 06h 23m 31.74± 3.13s
17.858 N ±48.1km 122.980 E ±24.9km
DEPTH = 33.0km (normal)
4.7mb (2 obs.)
LUZON, PHILIPPINE ISLANDS (249)
Felt (II RF) in the Calloo Caves oreo.

CVP 1.11 262 eP 23 51.00 -0.1
eS 24 01.80
PIP 2.29 282 iPc 24 08.00 0.0
iS 24 42.00
SZP 2.43 263 iPd 24 10.00 0.1
iS 24 40.00
PGP 4.75 205 eP 24 55.00 12.1X
WB2 39.19 163 iPd 30 59.30 0.7
0.5s 10.80nm 4.9mb
ASPA 42.63 165 eP 31 26.10 -0.7
0.5s 4.90nm 4.5mb
S.D. = 0.7 on 5 of 6 obs.

& MAR 08, 1991 06h 49m 50.03s
64.908 N 152.020 W
DEPTH = 20.5km
CENTRAL ALASKA (1)
<AEIC>.

NEA 1.31 103 eP 50 12.30 -0.8
eS 50 28.88
BWN 1.33 123 eP 50 13.42 0.0
eS 50 31.55
IMA 1.36 330 iP 50 13.48 -0.5
eS 50 31.27
MDM 1.62 86 eP 50 18.00 0.4
eS 50 38.13
TRF 1.65 152 eP 50 17.63 -0.6
eS 50 38.74
RDS 1.66 91 eP 50 18.58 0.4
eS 50 39.51
WRH 1.75 103 eP 50 19.91 0.5
eS 50 42.12
MCK 1.79 130 eP 50 20.66 0.5
S 50 43.83
FBA 1.80 88 eP 50 21.21 0.9
eS 50 44.01
CCB 1.82 96 iP 50 21.19 0.6
eS 50 43.99
GLM 1.97 86 eP 50 23.35 0.5
S 50 49.01
RND 2.05 136 eP 50 25.09 1.1
eS 50 50.07
HUR 2.21 150 eP 50 26.31 0.2
HDA 2.24 101 eP 50 29.19 2.6
eS 50 56.94
TTA 2.66 223 eP 50 32.15 -0.5
SKT 2.95 175 eP 50 33.55 -3.1
PWA 3.41 163 eP 50 40.48 -2.7
NCG 3.52 181 eP 50 41.16 -3.7
PLRM 3.58 157 eP 50 42.01 -3.5
CRP 3.66 181 eP 50 46.82 -0.1
BGL 3.66 183 eP 50 43.92 -3.0
PMS 3.84 162 eP 50 47.41 -2.0
KNK 3.86 154 eP 50 46.95 -2.7
KLU 4.40 138 eP 50 55.27 -2.0
24 obs. associated

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* MAR 08, 1991 07h 49m 32.47± 1.76s
39.441 N ±14.2km 143.594 E ±21.3km
DEPTH = 5.0km (geophysicist)
4.9mb (7 obs.)
OFF EAST COAST OF HONSHU, JAPAN (229)

OFUJ 1.54 257 iP+ 49 59.40 -1.2
S 50 18.80
HOOJ 2.95 356 P 50 21.30 0.5
S 50 54.70
YAMJ 3.05 247 P 50 21.60 -0.7
eS 50 55.10
MRRJ 3.54 328 P 50 31.00 1.8
eS 51 12.70
KUSJ 3.75 13 P 50 31.50 -0.7
eS 51 13.30
ASAJ 4.73 352 P 50 45.60 -0.5
MAT 5.14 237 eP 50 52.00 0.0
0.8s 46.27nm 5.2mb X
(S) 51 53.00
MDJ 11.62 301 eP 52 20.50 -1.5
XAN 28.19 270 eP 55 31.60 3.6X
GYA 33.35 258 P 56 11.00 -2.8
WMQ 41.34 295 P 57 19.80 -1.0
CHTO 43.56 255 e(P) 57 41.00 1.9
0.5s 1.53nm 4.0mb
GUN 48.65 275 P 58 20.96 1.1
0.4s 24.00nm 5.6mb
KKN 49.17 275 P 58 25.12 1.5
0.5s 22.00nm 5.5mb
PKI 49.18 275 P 58 25.14 1.3
DMN 49.39 275 P 58 26.70 1.3
0.4s 5.00nm 4.8mb
GKN 49.56 276 P 58 27.88 1.3
0.4s 12.00nm 5.2mb
HFS 72.59 336 eP 01 01.20 -1.0
0.4s 1.70nm 4.5mb
NB2 72.62 338 P 01 01.20 -1.3
0.9s 3.60nm 4.5mb
S.D. = 1.5 on 18 of 19 obs.

MAR 08, 1991 07h 55m 27.73± 0.43s
23.025 S ± 4.8km 70.408 W ± 8.0km
DEPTH = 10.0km (geophysicist)
4.8mb (5 obs.)
NEAR COAST OF NORTHERN CHILE (122)
Felt (IV) at Mejillones.

ANT 0.68 181 iPd+ 55 41.00 -0.1
iS 55 46.70
SLA 4.81 112 e(P) 56 33.50 -8.6X
CNCB 6.59 21 Pc 57 13.50 5.9X
ARE 6.61 351 eP 57 07.00 -0.6
iS 58 23.50
LPB 6.81 19 P 57 15.00 4.4X
1.0s 320.00nm 6.3mb X
CCH 6.90 36 P 57 21.00 9.3X
ZOBO 7.06 18 P 57 18.00 3.8X
S 59 30.00
RTRS 7.17 173 ePd 57 19.30 4.2X
RTLL 8.45 169 ePc 57 33.80 0.7
RTCB 8.55 171 e(P) 57 32.80 -1.7
ZON 8.63 170 eP 57 38.00 2.4X
i 59 32.00
CFA 8.76 168 e(P) 57 33.00 -4.4X
PEL 10.08 181 eP 57 55.50 -0.2
LNV 10.93 184 eP 58 08.00 0.9
SIV 11.24 53 P 58 12.00 0.4
PPD 17.67 90 eP 59 34.70 -1.0
e 59 38.30
e 59 43.10
VAO 21.57 95 eP 00 18.30 -1.4
e 00 21.50
e 00 27.50
e 00 40.60
e 00 47.60
BAO 22.38 75 ePc 00 29.30 1.5
BMA 24.19 94 eP 00 45.60 0.2
SOB1 31.42 69 eP 01 52.00 0.5
ALO 67.03 328 eP 06 23.00 -0.4
1.0s 4.25nm 4.6mb
LIC 70.14 74 P 06 42.50 -0.4
TIC 70.34 74 P 06 43.66 -0.4
KIC 70.46 74 Pc 06 44.54 -0.3
0.6s 10.50nm 5.1mb
SES 81.45 335 eP 07 47.00 0.7
FFC 82.04 342 eP 07 49.00 -0.2
1.2s 16.00nm 5.0mb
BUL 90.15 112 iPc 08 31.20 1.0
0.5s 3.52nm 4.9mb
YKA 92.16 341 eP 08 37.20 -1.0
0.7s 1.20nm 4.4mb
ASPA 127.92 209 ePKP 14 32.20 -3.9X
1.7s 6.80nm
POO 146.34 91 ePKP 15 10.00 0.1
KOD 146.78 107 ePKP 15 12.70 1.6
GBA 148.13 101 PKP 15 15.60 2.9X
e 17 22.00
S 18 22.00
S.D. = 0.9 on 22 of 32 obs.

? MAR 08, 1991 08h 07m 57.02± 5.08s
16.316 N ±20.0km 60.863 W ±42.9km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)
ML 2.2 (FDF).

DEG 0.19 269 iPc 08 03.60 0.0
S 08 07.90
SFG 0.33 259 ePd 08 05.32 0.2
S 08 11.40
SEG 0.62 278 ePd 08 09.21 -0.1
S 08 17.70
DOG 0.78 249 eP 08 11.79 0.2
S 08 21.50
PAG 0.84 250 eP 08 12.20 -0.2
S 08 22.80
BBL 0.99 217 eP 08 14.50 -0.1
S.D. = 0.2 on 6 of 6 obs.

& MAR 08, 1991 08h 54m 07.31s
60.097 N 152.274 W
DEPTH = 75.7km
SOUTHERN ALASKA (2)
<AEIC>.

RED 0.41 323 iPd 54 19.46 -0.7
iS 54 29.29
RSO 0.44 327 ePd 54 19.97 -0.6
iS 54 30.29
RS2 0.44 327 iPd 54 20.02 -0.5
iS 54 30.43
REF 0.45 332 iPc 54 19.98 -0.6
eS 54 30.06
RDT 0.48 352 iPc 54 20.04 -0.7
eS 54 30.26
RDN 0.48 330 ePc 54 20.25 -0.6
iS 54 30.59
NNL 0.49 96 iPc 54 21.21 0.4
HOM 0.54 144 ePd 54 20.96 -0.2
eS 54 31.59
NCT 0.57 325 ePd 54 20.82 -0.8
eS 54 31.27
BRLK 0.77 115 ePd 54 22.84 -0.9
eS 54 34.94
CNPM 0.78 137 iPd 54 22.95 -0.8
eS 54 35.38
NKA 0.83 38 iPc 54 25.51 1.3
AUE 0.93 217 ePd 54 24.56 -0.9
AUH 0.94 219 eP 54 25.31 -0.4
AUI 0.96 218 eP 54 24.92 -1.0
eS 54 38.85

08d 08h

PDB	1.01	253	iPd	54	25.32	-1.2
			eS	54	39.41	
SLKM	1.10	67	eP	54	26.85	-0.8
CKL	1.10	358	iPc	54	27.32	-0.5
BGL	1.17	357	iPc	54	28.24	-0.4
CRP	1.18	3	ePc	54	28.45	-0.3
			S	54	45.47	
NCG	1.31	2	iPc	54	30.10	-0.4
CDD	1.36	211	ePc	54	29.65	-1.4
			eS	54	47.25	
MCNL	1.39	230	ePc	54	29.77	-1.6
			eS	54	47.31	
SEW	1.42	89	eP	54	32.01	0.3
SYI	1.49	182	eP	54	31.81	-0.9
SUA	1.56	28	ePc	54	33.53	-0.3
			eS	54	55.52	
PMS	1.76	48	eP	54	35.99	-0.5
			eS	54	57.56	
SKT	1.92	11	iPc	54	37.76	-0.9
			S	55	01.45	
SVW	1.94	303	ePd	54	37.13	-1.7
PWA	1.95	36	eP	54	38.58	-0.4
PLRM	2.15	44	ePc	54	40.32	-1.3
KNIM	2.28	82	ePc	54	40.53	-3.0
KNK	2.29	53	ePc	54	42.14	-1.6
MTU	2.32	91	eP	54	42.14	-2.0
GHO	2.35	43	ePc	54	43.09	-1.4
CUT	2.51	22	eP	54	45.94	-0.7
VZW	2.98	69	eP	54	50.53	-2.8
KLU	3.41	63	ePc	54	56.84	-2.5
TRF	3.50	15	eP	55	00.01	-0.6
TOA	3.58	53	eP	55	00.09	-1.6
YZL	3.86	57	eP	55	02.91	-2.5
	41 obs. associated					

MAR 08, 1991 09h 02m 18.50± 0.18s
60.828 N ± 4.0km 167.075 E ± 2.9km
DEPTH = 10.0km (geophysicist)
5.3mb (71 obs.) 4.5Msz (8 obs.)
EASTERN SIBERIA (671)

KLY	5.57	218	eP	03	44.40	1.1
SMY	8.98	152	eP	04	28.10	-3.0X
PET	9.08	214	eP	04	34.50	2.1
	0.9s	125.00nm			6.3mb	
N	12s	4.60um				
E	12s	15.50um				
			e	07	10.00	
ANM	13.13	62	e(P)	05	29.30	1.9
TTA	17.37	67	eP	06	23.50	1.2
BRW	17.69	39	eP	06	27.70	1.7
SVW	17.95	73	eP	06	29.80	0.3
IMA	18.07	56	eP	06	32.20	1.3
	1.9s	209.00nm			4.9mb	
FBA	20.62	59	eP	07	00.30	0.2
SLKM	20.66	72	eP	06	59.20	-1.3
PMR	20.81	69	eP	07	02.40	0.3
	1.3s	31.30nm			4.5mb	
TOA	22.00	66	eP	07	15.00	0.9
ASAJ	22.18	232	eP	07	25.30	9.4X
HOOJ	23.42	229	eP	07	28.10	0.0
BALM	24.08	67	P	07	34.80	0.2
INK	25.58	48	ePc	07	48.20	-0.5
	0.8s	51.00nm			5.3mb	
			pP	08	04.50	70kmX
OFUJ	26.90	228	P	08	01.60	0.5
YAMJ	28.30	229	P	08	13.80	0.0
MBC	28.41	29	ePc	08	14.50	0.1
	0.6s	5.00nm			4.5mb	
NIIJ	29.51	230	P	08	24.50	-0.2
CN2	29.95	254	Pc	08	28.60	0.0
Z	19s	1.80um			4.7Msz	
			pP	08	37.00	29kmX
			eS	13	22.00	
MAT	30.42	230	iPc	08	32.20	-0.7
	0.9s	37.82nm			5.2mb	
		(S)		13	24.00	
MTMJ	30.53	231	P	08	34.40	0.4
CHJJ	30.57	229	P	08	33.90	-0.2
IIDJ	31.47	230	P	08	41.80	-0.4
SNY	32.35	254	eP	08	50.30	0.6
	1.6s	100.00nm			5.5mb	
Z	18s	0.80um			4.5Msz	
N	13s	0.80um				
E	12s	0.60um				
			S	14	04.00	
YKA	35.10	52	eP	09	12.50	-0.8
	0.7s	16.00nm			5.0mb	
BJI	37.27	260	eP	09	32.00	0.2
	1.0s	71.00nm			5.4mb	
Z	12s	0.90um			4.8MszX	
			eS	15	20.00	
HHC	38.88	265	eP	09	46.00	0.5
Z	10s	1.30um			5.1MszX	
			S	15	47.00	
BTO	39.83	266	eP	09	54.00	0.6
N	13s	0.80um				
E	13s	0.90um				
			epP	09	58.00	14kmX
			eS	15	54.00	
TIY	40.90	261	eP	10	02.60	0.5
Z	13s	1.00um			4.9MszX	
PNT	41.30	72	eP	10	06.00	0.8
	0.8s	19.00nm			4.9mb	
EDM	41.42	63	ePc	10	07.00	0.8
	0.8s	87.00nm			5.5mb	
SSE	42.22	246	Pc	10	16.40	3.5X
	0.9s	15.00nm			4.7mb	
Z	20s	0.90um			4.7Msz	
			sP	10	31.00	
DAG	42.60	2	eP	10	14.60	-0.9
	0.9s	22.69nm			4.9mb	
NEW	43.21	71	ePc	10	20.50	-0.4
	0.8s	16.67nm			4.8mb	
SES	44.43	65	ePc	10	30.80	0.0
	1.4s	102.00nm			5.5mb	
FFC	45.14	55	eP	10	36.00	-0.4
	0.9s	40.00nm			5.4mb	
XAN	45.54	261	eP	10	40.60	0.8
GTA	45.74	274	eP	10	41.00	-0.4
	1.0s	30.00nm			5.2mb	
Z	10s	1.30um			5.2MszX	
			S	17	20.00	
WDC	46.36	82	e(P)	10	47.60	1.5
LZH	46.37	268	Pc	10	46.50	0.0
	2.0s	140.00nm			5.6mb	
Z	20s	0.50um			4.5Msz	
E	15s	0.80um				
KEV	46.65	342	eP	10	49.00	1.0
MIN	46.99	82	e(P)	10	50.80	-0.6
GDH	47.00	18	iPd	10	58.70	7.9X
	0.7s	16.44nm			5.2mb	
LRM	47.17	70	eP	10	52.50	-0.3
WMO	48.18	287	P	11	02.00	1.4
Z	15s	0.80um			4.8MszX	
			ScP	16	20.00	
FRB	48.87	29	eP	11	05.00	-0.4
SOD	48.88	341	iP	11	05.20	-0.3
CMB	49.39	83	eP	11	10.90	1.0
FRI	50.54	83	eP	11	18.50	-0.1
CD2	50.60	264	P	11	18.80	-0.4
PRI	50.75	85	e(P)	11	22.80	2.4
TNP	50.88	80	ePc	11	20.80	-0.7
	0.8s	8.82nm			4.7mb	
RSSD	52.29	66	ePc	11	30.60	-1.6
	0.8s	21.03nm			5.1mb	
			e	11	36.40	
			ePcP	12	43.50	
CLC	52.50	82	eP	11	33.00	-0.6
			e	12	44.00	
GYA	52.90	258	P	11	37.00	0.3
SBB	53.30	83	eP	11	39.00	-0.5
GSC	53.30	82	eP	11	39.00	-0.5
MWC	53.56	84	eP	11	44.00	2.4
PAS	53.56	84	eP	11	41.00	-0.4
AKU	53.74	3	eP	11	44.30	2.1
	0.9s	33.61nm			5.3mb	
KAF	53.78	338	iP	11	41.20	-1.3
	0.9s	19.30nm			5.1mb	
PV09	54.41	74	P	11	47.70	-0.2
TPC	54.63	82	eP	11	48.00	-1.3
PLM	54.84	84	eP	11	50.00	-1.1
GOL	55.20	70	P	11	54.00	0.3
GLD	55.23	70	P	11	53.50	-0.3
NUR	55.57	339	eP	11	54.00	-1.7
	0.9s	42.20nm			5.5mb	
NB2	57.05	346	P	12	03.80	-2.6
	0.8s	29.10nm			5.4mb	
SCH	57.07	34	eP	12	05.00	-1.6
	0.7s	48.00nm			5.6mb	
UPP	57.34	342	iP	12	06.90	-1.5
HFS	57.62	345	eP	12	08.20	-2.2
	0.7s	17.10nm			5.2mb	
Z	16s	0.37um			4.6MszX	
			LR	32	41.00	
ANMO	58.54	74	P	12	17.00	-0.4
	1.0s	7.50nm			4.7mb	
ALO	58.54	74	eP	12	16.90	-0.5
	1.0s	6.75nm			4.7mb	
GUN	61.82	277	P	12	39.80	-0.3
	0.8s	79.00nm			5.9mb	
KKN	62.21	278	P	12	42.48	-0.1
	0.7s	19.00nm			5.4mb	
PKI	62.33	277	P	12	43.16	-0.3
	0.6s	15.00nm			5.3mb	
GKN	62.34	278	P	12	43.04	-0.3
GAC	62.38	45	ePd	12	41.00	-2.1
	0.6s	16.00nm			5.4mb	
DMN	62.44	278	P	12	43.36	-0.8
	0.7s	18.00nm			5.4mb	
CHG	63.11	260	iPc	12	47.50	-0.8
	1.0s	40.00nm			5.6mb	
CHTO	63.11	260	iP	12	47.00	-1.3
	1.0s	43.00nm			5.6mb	
FVM	63.23	60	ePc	12	47.40	-1.5
CBM	63.69	39	P	12	50.00	-1.8
EKA	63.93	354	Pc	12	53.50	0.3
	1.5s	77.70nm			5.7mb	
NDI	65.34	285	eP	13	03.00	0.3
KSP	66.23	340	eP	13	07.00	-1.1
CLL	66.29	343	iPc	13	07.60	-0.9
	1.4s	40.00nm			5.4mb	
KRA	66.35	338	eP	13	07.80	-1.1
			i	13	10.20	
WTS	66.42	347	iPd	13	10.00	0.7
	0.8s	31.00nm			5.5mb	
BRG	66.58	342	iP	13	10.20	-0.1
	1.6s	27.00nm			5.2mb	
KHT	66.74	258	eP	13	11.20	-0.6
MOX	67.14	343	eP	13	14.00	0.1
RSCP	67.29	57	ePd	13	13.00	-2.1
PRU	67.34	341	P	13	15.60	0.4
	1.0s	18.80nm			5.2mb	
ENN	67.73	347	eP	13	19.00	1.4
	1.5s	67.00nm			5.6mb	
BLA	67.96	53	P	13	18.80	-0.6
	0.7s	12.78nm			5.2mb	
SNF	68.15	348	P	13	21.70	1.5
KHC	68.33	342	P	13	22.50	1.1
ABH	68.42	346	eP	13	18.37	-3.6X
WET	68.42	342	eP	13	21.90	-0.1
DOU	68.53	348	P	13	23.00	0.4
	0.9s	32.50nm			5.5mb	
ZST	68.65	339	eP	13	23.50	0.1
SRO	68.80	338	iP	13	23.90	-0.4
QUE	68.80	294	eP	13	24.10	-0.8
BUD	68.99	337	e(P)	13	26.00	0.5
CVO	69.07	332	ePc	13	27.00	1.0
GWF	69.30	346	P	13	27.71	0.3
MLR	69.43	332	ePc	13	31.50	3.1X
ISR	69.63	331	ePc	13	32.00	2.5
WLS	69.89	346	P	13	31.36	0.3
CDF	69.90	346	P	13	31.32	0.2
COZ	69.96	333	ePc	13	34.50	2.9
ECH	70.10	346	P	13	32.76	0.4
VITF	70.24	347	P	13	33.66	0.6
FLN	70.30	351	eP	13	32.50	-1.0
	1.2s	71.40nm			5.7mb	
Z	19s	0.28um			4.5Msz	
FEL	70.33	345	P	13	34.03	0.2
KBA	70.36	341	eP	13	34.50	0.4
	1.2s	32.90nm			5.3mb	
			i	13	36.80	
HAU	70.41	346	eP	13	33.50	-0.7
Z	21s	0.28um			4.5Msz	
LDF	70.44	351	eP	13	33.20	-1.1
	1.1s	48.85nm			5.5mb	
MOF	70.47	346	P	13	34.76	0.1
BSF	70.53	346	eP	13	34.10	-0.9
	0.7s	12.15nm			5.1mb	
GRR	70.70	352	eP	13	35.10	-0.8
	1.3s	93.85nm			5.8mb	
LOMF	70.99	346	P	13	38.26	0.4
LPF	71.07	352	eP	13	37.60	-0.5
	1.1s	51.30nm			5.6mb	
LOR	71.40	348	eP	13	39.40	-0.8
	0.8s	40.30nm			5.6mb	
Z	19s	0.15um			4.3Msz	
SSF	71.64	348	eP	13	41.10	-0.5
	1.2s	34.20nm			5.3mb	
LBF	71.67	348	eP	13	41.50	-0.4

	0.8s	17.45nm		5.2mb		
AVF	71.93	348 eP	13 42.90	-0.4		
	1.1s	64.70nm		5.6mb		
SMF	72.02	348 eP	13 43.20	-0.7		
	1.3s	46.95nm		5.4mb		
BGF	72.21	349 eP	13 44.50	-0.5		
	1.1s	29.30nm		5.3mb		
VAI	72.21	344 P	13 44.30	-0.6		
TCF	72.54	349 eP	13 46.50	-0.5		
	1.2s	55.05nm		5.5mb		
MAF	72.57	349 eP	13 46.90	-0.2		
	1.2s	34.20nm		5.3mb		
LSF	72.64	350 eP	13 47.10	-0.4		
	1.2s	50.60nm		5.5mb		
LPL	72.81	346 eP	13 48.90	0.0		
	0.9s	27.85nm		5.4mb		
LPG	72.83	346 eP	13 49.20	0.2		
	1.0s	46.00nm		5.5mb		
YLV	73.22	328 eP	13 50.00	-1.1		
BNI	73.28	346 P	13 53.40	1.9		
RJF	73.57	349 eP	13 52.50	-0.5		
	0.9s	8.20nm		4.8mb		
Z	22s	0.22um		4.4Msz		
BDI	73.72	343 P	13 54.70	0.7		
CAF	73.90	349 eP	13 54.90	0.0		
	1.2s	52.05nm		5.4mb		
LFF	74.00	350 eP	13 55.20	-0.3		
	0.8s	19.50nm		5.2mb		
VAY	74.16	333 eP	13 58.40	2.0		
LPO	74.22	350 eP	13 56.60	-0.1		
	0.9s	16.40nm		5.1mb		
HYB	74.25	277 eP	13 53.00	-4.3X		
	1.0s	35.00nm		5.3mb		
SBF	74.35	345 eP	13 58.00	0.4		
OHR	74.75	334 eP	13 59.50	-0.4		
LMR	74.99	345 eP	14 00.80	-0.4		
PGF	75.44	343 eP	14 04.30	0.4		
POO	75.57	282 iPd	14 04.60	-0.3		
	1.0s	24.00nm		5.2mb		
BOM	75.75	283 eP	14 05.00	-0.8		
EPF	75.93	350 eP	14 07.10	0.4		
EMON	75.99	356 iPd	14 08.00	1.0		
GBA	78.07	276 Pd	14 17.40	-1.4		
	0.7s	12.90nm		5.1mb		
EROO	78.12	350 iPc	14 20.10	1.4		
GUD	78.63	353 iPd	14 23.00	1.3		
EPLA	79.30	355 iPd	14 27.20	1.9		
TOL	79.38	353 eP	14 26.50	0.8		
ECHE	79.46	351 iPd	14 28.50	2.4		
KOD	80.96	275 eP	14 34.40	-0.4		
ECOG	81.94	352 iPc	14 41.30	1.9		
AFC	81.97	352 iPd	14 41.50	1.9		
WB2	84.71	211 iPc	14 53.40	-0.1		
	0.7s	17.80nm		5.4mb		
WRA	84.71	211 P	14 53.00	-0.5		
	1.1s	15.30nm		5.1mb		
RMO	88.27	196 eP	15 11.00	0.2		
ASPA	88.39	210 eP	15 09.90	-1.5		
	1.2s	10.30nm		5.0mb		
ZOBO	120.75	67 ePKP	20 54.00	-18.7X		
		i	22 40.00			
SIV	123.58	59 PKP	21 16.60	-0.9		
		i	22 56.60			
BAO	128.30	45 ePKP	21 26.50	-0.2		
S.D. = 1.0 on 163 of 171 obs.						

MAR 08, 1991 09h 23m 13.11± 0.21s
40.828 N ± 2.5km 27.892 E ± 2.0km
DEPTH = 11.3 ± 1.8 km
4.5mb (1 obs.)
TURKEY (366)
MD 4.0 (THE), 4.0 (ATH).

BNT	0.47	177 iPg	23 23.50	0.7		
EDC	0.48	183 iPg	23 23.00	0.1		
CTT	0.52	52 iPg	23 23.40	-0.2		
KGT	0.58	230 iPg	23 25.20	0.4		
KCT	0.68	148 iPg	23 26.40	-0.1		
ITU	0.89	72 iPgc	23 30.00	-0.1		
ISK	0.92	75 iPg	23 29.90	-0.6		
DMK	1.00	354 iPn	23 31.80	-0.1		
YLV	1.16	103 iPn	23 34.70	0.1		
G8ZT	1.18	91 iPgc	23 35.20	0.2		
		iSg	23 51.50			
IZI	1.30	112 iPn	23 37.00	-0.1		
DST	1.34	155 iPn	23 38.40	0.6		
HRT	1.35	90 iPn	23 37.40	-0.4		
ALN	1.40	273 eP	23 38.90	0.4		
EZN	1.56	231 iPn	23 41.50	0.8		
RDO	1.81	281 eP	23 45.00	0.6		
JMB	1.91	330 iPc	23 47.00	1.2		
GPA	1.92	106 iPn	23 45.50	-0.5		
PRK	2.01	219 eP	23 51.40	4.1X		
		eS	24 20.60			
KDZ	2.04	295 iPc	23 48.00	0.3		
DIM	2.15	305 eP	23 49.00	-0.4		
ALT	2.46	135 iPn	23 54.80	1.0		
IZM	2.48	192 ePn	23 54.70	0.7		
RZN	2.54	291 iPd	23 55.00	-0.1		
PLD	2.71	299 iPd	23 57.00	-0.4		
KHL	2.80	153 ePn	23 58.70	0.0		
PVL	3.05	322 iPd	24 02.00	-0.1		
CIN	3.23	177 eP	24 03.00	-1.6		
MMB	3.23	285 iPc	24 04.00	-0.8		
SRS	3.27	276 eP	24 05.00	-0.3		
		eS	24 40.80			
PGB	3.28	303 iPc	24 05.00	-0.4		
PAIG	3.34	256 eP	24 06.30	0.0		
SOH	3.44	271 eP	24 07.50	-0.3		
		eS	24 46.30			
YER	3.70	175 ePn	25 05.00	53.5X		
THE	3.75	269 eP	24 11.80	-0.3		
BUC1	3.78	339 ePc	24 18.00	5.6X		
KNT	3.79	277 eP	24 12.70	0.0		
		eS	24 55.30			
BBTK	3.85	103 ePn	24 23.00	9.4X		
		eS	25 29.00			
VTS	3.92	298 iP	24 14.00	-0.7		
VAY	4.05	279 iPn	24 16.70	0.4		
		i	24 28.60			
		iSn	25 23.70			
		LR	25 28.70			
GRG	4.16	274 eP	24 18.50	0.5		
LIT	4.18	262 eP	24 17.60	-0.7		
ISR	4.42	348 ePc	24 23.50	1.9		
KAS	4.47	81 eP	24 22.00	-0.4		
DRA	4.69	326 eP	24 56.00	30.6X		
KZN	4.69	266 ePn	24 25.00	-0.6		
MLR	4.87	344 ePc	24 21.00	-7.1X		
FNA	4.95	272 eP	24 28.50	-0.6		
SKO	4.99	285 iPn	24 29.50	-0.1		
		iPb	24 37.60			
		iPg	24 46.60			
		iSg	25 51.20			
		LQ	26 16.10			
VRI	5.11	351 ePd	24 31.50	0.2		
CVO	5.15	346 ePc	24 33.00	1.1		
SRE	5.16	320 ePc	24 51.00	19.0X		
COZ	5.19	331 ePc	24 36.50	3.9X		
OHR	5.38	275 ePn	24 35.30	0.1		
GZR	5.90	322 ePd	24 28.00	-14.5X		
BZS	6.63	318 ePc	24 50.00	-2.7		
ZST	10.65	317 eP	25 50.50	2.0		
BCAO	37.20	196 iPc	30 31.20	5.1X		
	0.7s	6.00nm		4.5mb		
S.D. = 0.8 on 48 of 58 obs.						

& MAR 08, 1991 09h 27m 35.50s
34.150 N 116.720 W
DEPTH = 11.0km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 3.7 (PAS). Felt (III) at Big Bear City. Also felt at Cathedral City, Morongo Valley and Palm Springs.

PEC	0.45	235 iPd	27 44.10	-0.6		
TPC	0.56	94 iPc	27 46.10	-0.7		
PLM	0.80	188 iPd	27 50.60	-0.5		
PCF	0.89	264 iPc	27 51.89	-0.6		
VPD	0.93	249 ePc	27 52.75	-0.4		
PEM	0.95	271 iPc	27 53.12	-0.5		
SBB	1.06	301 iPc	27 54.90	-0.5		
MWC	1.11	274 iPc	27 55.90	-0.5		
GSC	1.15	357 iPd	27 56.90	-0.1		
PAS	1.20	270 ePc	27 57.24	-0.6		
		eS	28 12.96			
CPE	1.31	194 iPd	27 58.30	-1.3		
SCY	1.44	269 eP	28 00.93	-0.6		
		eS	28 20.47			
BAR	1.47	178 iPd	28 01.30	-0.6		
GLA	1.92	124 eP	28 06.80	-1.7		
ABL	2.18	289 eP	28 11.70	-0.7		
BCH	2.96	291 eP	28 22.90	-0.5		
BLP	3.07	279 eP	28 24.60	-0.2		
TNP	3.94	354 eP	28 38.00	0.6		
BONR	4.01	342 eP	28 41.00	2.6		
CMB	4.88	324 e(P)	28 53.00	2.4		
KVN	5.02	348 e(P)	28 55.00	2.4		
21 obs. associated						

& MAR 08, 1991 09h 46m 08.76s
61.280 N 152.060 W
DEPTH = 107.4km
2.8mb (1 obs.)
SOUTHERN ALASKA (2)
<AEIC>.

CRP	0.05	254 iP	46 22.96	0.6		
NCG	0.13	339 iP	46 23.19	0.8		
CKL	0.16	238 iP	46 23.14	0.7		
BGL	0.16	264 eP	46 23.05	0.6		
SUA	0.66	73 iP	46 26.68	-0.3		
NKA	0.67	143 iP	46 27.90	1.1		
RDT	0.73	194 iP	46 26.50	-1.0		
		eS	46 40.36			
SKT	0.75	20 iP	46 26.90	-0.7		
		iS	46 40.91			
NCT	0.84	211 iP	46 27.89	-0.6		
		iS	46 42.64			
RDN	0.84	204 iP	46 27.64	-0.9		
REF	0.85	202 iP	46 27.87	-0.9		
RS2	0.89	203 iP	46 28.35	-0.8		
RSO	0.89	203 iP	46 28.32	-0.8		
RED	0.93	202 iP	46 28.60	-0.8		
PWA	1.11	69 eP	46 31.15	-0.1		
		eS	46 49.49			
SLKM	1.19	130 eP	46 31.60	-0.5		
		S	46 49.36			
PMS	1.21	91 iP	46 32.28	-0.1		
		iS	46 50.45			
NNL	1.30	163 eP	46 33.82	0.5		
CUT	1.41	36 eP	46 34.43	-0.3		
PLRM	1.44	76 iP	46 34.06	-1.0		
		eS	46 54.13			
PMR	1.44	76 iP	46 34.10	-0.9		
GHO	1.58	70 eP	46 36.00	-0.9		
		iS	46 57.35			
BRLK	1.63	159 eP	46 36.80	-0.6		
		eS	46 58.17			
HOM	1.64	173 eP	46 37.31	-0.2		
		eS	46 58.25			
SVW	1.73	266 iP	46 37.13	-1.6		
		eS	46 58.88			
KNK	1.74	84 eP	46 37.79	-1.1		
		iS	47 00.90			
SEW	1.74	131 eP	46 37.91	-0.9		
		eS	46 59.53			
CNPM	1.81	167 eP	46 38.78	-0.9		
		eS	47 02.04			
PDB	1.83	216 iP	46 39.31	-0.6		
		eS	47 02.93			
XLV	1.84	175 eP	46 39.07	-1.0		
AUE	2.04	199 eP	46 41.55	-1.0		
AUH	2.04	200 eP	46 42.80	0.1		
HUR	2.05	33 eP	46 42.30	-0.5		
AUI	2.07	200 eP	46 42.88	-0.1		
		eS	47 08.20			
KNIM	2.32	112 eP	46 43.65	-2.6		
TRF	2.33	20 eP	46 45.69	-0.9		
		eS	47 14.03			
MCNL	2.39	209 eP	46 46.55	-0.7		
GLI	2.45	97 iP	46 45.59	-2.4		
CDD	2.49	199 eP	46 47.65	-0.9		
TTA	2.49	313 eP	46 46.80	-1.8		
MTU	2.53	119 eP	46 47.53	-1.6		
RND	2.61	34 eP	46 48.93	-1.3		
VZW	2.68	92 iP	46 49.22	-1.9		
SYI	2.68	184 eP	46 50.07	-1.1		
VLZ	2.78	91 eP	46 50.35	-2.0		
MCK	2.86	29 eP	46 52.98	-0.5		
TOA	2.92	71 eP	46 53.50	-1.0		
KLU	2.96	83 eP	46 53.12	-1.9		
BWN	3.14	21 eP	46 56.21	-1.1		
TZL	3.26	73 iP	46 58.20	-0.7		
SDG	3.33	65 eP	46 59.42	-0.5		
PAX	3.53	58 eP	47 02.16	-0.5		
NEA	3.58	21 eP	47 01.69	-1.6		
WRH	3.68	28 eP	47 02.79	-1.9		
DDM	3.82	46 eP	47 06.36	-0.2		
CCB	3.90	28 eP	47 05.86	-1.7		

08d 09h

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MDA      3.91  34 eP     47 06.72  -1.1
GLB      3.98  84 eP     47 06.99  -1.7
RDS      3.98  25 eP     47 07.54  -1.2
MDM      4.08  24 eP     47 08.48  -1.7
FBA      4.12  26 eP     47 09.50  -1.1
GLM      4.28  28 eP     47 11.47  -1.5
TGL      4.52  93 eP     47 14.77  -1.5
BALM     4.71  89 eP     47 16.85  -2.0
IMA      4.86 352 eP     47 18.80  -2.1
YAH      5.13  96 eP     47 23.63  -1.2
CTGM     5.21  89 eP     47 24.22  -1.6
YKA     17.53  70 eP     50 06.90  -0.5
        0.5s      0.30nm          2.8mb
        68 obs. ossocioted
-----------------------------------------
   MAR  08, 1991  11h 36m 28.43± 0.13s
   60.904 N ± 3.0km  167.023 E ± 2.3km
   DEPTH =  13.0km  (geophysicist)
   6.4mb ( 93 obs.)  6.6Msz ( 30 obs.)
 EASTERN SIBERIA                  (671)
      Ms 6.6 (BRK), 6.4 (PAS).
      Mo=3.0*10**19 Nm (PPT). Believed
      to be the largest earthquoke
      ever located in this area. Depth
      from broadband displacement
      seismograms.
      FAULT PLANE SOLUTION: P-Waves
       NP1:Strike=227 Dip=73 Slip=  90
       NP2:          47      17     90
       Principal Axes:
        T                Plg=62  Azm=137
        P                   28       317
      Comment: The focal mechanism is
        poorly controlled and
        corresponds to reverse
        faulting. The preferred fault
        plane is NP2.
      RADIATED ENERGY
       No. of sta:  18  Focal mech.  F
       Energy          1.0±2.1*10**14 Nm
      MOMENT TENSOR SOLUTION
      Dep  10              No. of sta: 22
      Moment Tensor;   Scale 10**18 Nm
        Mrr= 2.25        Mtt=-1.15
        Mff=-1.10        Mrt=-6.92
        Mrf=-2.73        Mtf=-1.85
       Principal axes:
        T  Val=  7.80  Plg=53  Azm=168
        N        0.22     9       66
        P       -8.02    36      329
      Best Double Couple:Mo=7.9*10**18
       NP1:Strike= 20 Dip=13 Slip=  43
       NP2:         247     81      99
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 25S, 75C  M.W.: 15S, 37C
      Centroid Location:
      Origin Time        11:36:36.0 0.1
      Lat 60.94N 0.02 Lon 167.35E 0.02
      Dep  15.0 BDY Half-duration  7.6
      Moment Tensor;   Scale 10**18 Nm
        Mrr= 8.99 0.12  Mtt=-3.72 0.15
        Mff=-5.27 0.08  Mrt=-2.88 0.34
        Mrf=-2.47 0.40  Mtf=-5.21 0.10
       Principal Axes:
        T  Val=  9.75  Plg=79  Azm=149
        N        0.73     3       42
        P      -10.49    11      311
      Best Double Couple:Mo=1.0*10**19
       NP1:Strike= 37 Dip=34 Slip=  84
       NP2:         224     56      94

KLY      5.61 218 iP     37 54.50   1.0
SMY      9.06 152 eP     38 38.10  -3.6X
      Z  20s   504.50um
PET      9.13 214 eP     38 44.00   1.4
       4.0s  *******nm          7.9mb X
      Z  20s    45.50um          4.3Msz
      N  26s    50.00um
                 iS     40 24.00
ILT      9.33  35 eP     38 43.00  -2.4
       1.0s   800.00nm          7.0mb
      Z  14s   689.00um          4.1Msz
                 i      38 44.00
                 i      39 02.00
                 e      41 28.00
SKR     11.94 216 eP     39 21.60   0.5

                 iS     42 18.00
ADK     12.73 128 eP     39 28.60  -3.1X
      Z  21s   586.50um
ANM     13.12  62 eP     39 34.00  -2.8
TTA     17.37  67 eP     40 32.00   0.3
BRW     17.65  39 eP     40 36.40   1.4
SDN     17.90  94 eP     40 39.90   1.7
      Z  22s   221.00um
SVW     17.95  73 eP     40 40.20   1.2
IMA     18.04  57 eP     40 41.30   1.1
       1.6s  1602.30nm          5.9mb
                 i      40 42.80
PDB     19.04  76 P      40 52.20   0.0
RSO     19.49  74 eP     40 57.60  -0.3
YSS     19.78 236 iPc     41 01.00   0.2
                 iS     44 40.00
FBA     20.61  59 eP     41 10.10   0.7
SLKM    20.66  72 iP     41 08.30  -1.7
                 e      41 26.80
PMR     20.81  69 eP     41 10.10  -1.4
       2.3s  1980.50nm          6.1mb
      Z  18s   181.00um          6.5Msz
TOA     21.99  66 eP     41 23.70   0.2
KLU     22.30  68 P      41 27.00   0.4
MID     22.87  73 eP     41 35.30   3.2X
BALM    24.08  67 eP     41 43.00  -1.0
                 e      42 10.50
                 i      43 09.00
INK     25.55  48 ePd    41 57.20  -0.6
       0.9s   624.00nm          6.3mb
MDJ     27.40 251 iPd     42 13.20  -1.9
       5.0s  3600.00nm          6.3mb X
      Z  16s    73.70um          6.3MszX
      N  19s   253.00um
      E  18s   238.00um
                 sP     42 25.00
                 PP     43 04.00
                 iS     46 54.00
                 sS     47 11.00
MBC     28.35  29 eP     42 23.00  -0.4
       1.0s   136.00nm          5.7mb
                 pP     42 59.50 178kmX
HIA     28.79 268 ePc     42 27.63   0.0
                 esPd   42 33.92
                 ePP    43 20.60
                 eS     47 27.16
SIT     29.12  72 eP     42 31.60   1.1
      Z  18s    89.50um          6.4Msz
CN2     29.95 254 Pc      42 36.60  -1.5
       4.0s  4500.00nm          6.6mb X
      Z  17s   133.00um          6.6MszX
      N  13s    74.10um
      E  13s    52.90um
                 pP     42 45.00  29kmX
MAJO    30.45 230 iPc     42 42.44  -0.1
                 esPd   42 48.56
                 eS     47 54.85
MAT     30.45 230 iPc     42 41.40  -1.2
       1.0s   420.00nm          6.2mb
                 eS     47 44.00
NRI     31.88 319 iPc     42 54.00  -0.8
                 eS     48 08.00
SNY     32.34 254 iPc     42 59.00  -0.1
       4.0s  7800.00nm          7.0mb X
      Z  30s    63.80um          6.1MszX
      N  18s    88.10um
      E  19s   141.00um
                 pP     43 12.00  51kmX
                 PP     44 12.00
                 iS     48 14.00
IRK     34.31 284 eP     43 18.00   1.8
                 eS     48 44.00
YKA     35.07  52 eP     43 21.70  -0.8
       0.8s    81.10nm          5.7mb
DL2     35.56 253 iPc     43 27.00   0.1
       4.0s  2900.00nm          6.5mb X
      Z  22s    38.30um          6.1Msz
      N  18s   135.00um
      E  16s    72.10um
                 pP     43 38.00  39kmX
                 PP     44 48.00
                 S      48 59.00
BJI     37.26 260 eP     43 41.32   0.2
       1.5s  1048.00nm          6.4mb
      N  14s    18.20um
      E  13s    44.90um
                 epP    43 44.80  12kmX

                 ed     43 53.41
                 ePP    45 01.35
                 eS     49 36.87
                 eSS    52 16.62
HHC     38.86 265 Pc      43 54.00  -0.8
       5.0s  3500.00nm          6.3mb X
      Z  18s    87.10um          6.6Msz
      N  11s    36.50um
      E  12s    37.00um
                 sP     44 07.00
                 PP     45 30.00
KBS     39.63 353 eP     44 03.00   2.4
BTO     39.81 266 P      44 03.00   0.4
       4.0s  4400.00nm          6.5mb X
      N  12s    58.20um
      E  12s    55.80um
                 sP     44 15.00
                 PP     45 41.00
                 iS     50 10.50
TIA     39.85 255 iPc     44 02.90   0.0
       4.0s  4300.00nm          6.5mb X
      N  20s   161.00um
      E  19s   129.00um
                 pP     44 15.00  44kmX
                 sP     44 20.60
                 PP     45 40.00
                 S      50 11.00
TIY     40.89 261 iPc     44 11.60   0.1
       1.6s   600.00nm          6.1mb
      Z  14s    69.90um          6.7MszX
                 S      50 22.00
                 SS     53 24.00
PNT     41.30  72 iPc     44 15.70   1.0
       0.8s   258.00nm          6.0mb
EDM     41.41  63 iPd     44 11.00  -4.6X
LON     42.11  76 ePc     44 22.00   0.6
                 epPd   44 25.97  13kmX
                 esP    44 27.79
                 ePP    46 04.85
SSE     42.23 246 Pc      44 22.00  -0.4
       5.0s  4500.00nm          6.5mb X
      Z  20s    70.20um          6.5Msz
      N  16s    39.80um
      E  14s    42.10um
                 sP     44 35.00
                 PP     46 02.00
                 iS     50 44.00
                 sS     51 00.00
                 ScS    54 20.00
NJ2     42.48 250 Pc      44 25.20   0.8
       5.0s  5400.00nm          6.5mb X
      Z  20s    40.20um          6.3Msz
      N  20s   116.00um
      E  20s   249.00um
                 PP     46 10.00
                 S      50 45.50
COR     42.98  79 ePc     44 29.58   1.2
                 ec     44 32.56
                 esPd   44 35.70
                 ePP    46 13.09
                 eS     50 59.29
                 eS     51 01.69
                 eSS    54 14.62
NEW     43.21  71 iPc     44 30.60   0.2
       1.0s   315.00nm          6.0mb
VGB     43.50  77 P      44 33.50   0.8
FFC     45.12  55 eP     44 45.00  -0.6
       1.7s   846.00nm          6.4mb
FHC     45.50  84 ePc     44 49.80   0.9
XAN     45.53 261 P      44 48.20  -1.0
       4.0s  3600.00nm          6.7mb X
      N  16s    67.00um
      E  16s    93.10um
                 pP     45 01.00  47kmX
                 S      51 32.00
GTA     45.71 274 iPc     44 50.00  -0.6
       7.0s  3520.00nm          6.4mb X
      Z  16s    93.30um          6.8MszX
      N  10s    56.90um
                 pP     45 02.00  43kmX
                 PP     46 40.00
                 S      51 28.00
                 sS     51 47.00
                 ScS    54 38.00
                 SS     54 48.00
WHN     45.83 253 Pd      44 52.00   0.6
       5.0s  6600.00nm          6.9mb X
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      Z  24s    21.40um             6.0MszX
      N  16s    61.10um
      E  16s    41.20um
                 S       51 34.00
LBFM   46.10  81 P       44 58.80    5.0X
LZH    46.35 267 ePc     44 55.31   -0.5
       2.0s  2051.00nm           6.8mb
      Z  14s    47.12um             6.6MszX
      E  16s    85.17um
                 ePP     46 44.17
                 i       51 24.00
                 S       51 40.00
                 eS      51 45.23
                 eSS     54 56.76
WDC    46.37  83 iPc     44 55.70    0.0
                 eScP    49 30.90
HON    46.46 133 P       45 01.00    4.5X
KEV    46.57 342 ePd     44 58.02    1.2
                 esPc    45 04.64
                 ePP     46 51.02
                 eS      51 47.07
                 eSS     55 05.42
                 e       55 30.00
                 eSSS    56 28.74
GDH    46.94  18 eP      44 59.00   -0.8
       1.0s   100.00nm           5.8mb
                 i       51 50.00
MIN    47.01  82 iPc     45 00.60   -0.3
LRM    47.17  70 iPc     45 02.50    0.3
ANP    47.19 242 iPc     45 06.00    3.6X
                 eS      52 00.00
TATO   47.39 242 iPc     45 04.52    0.7
                 ed      45 15.61
                 ePP     46 48.55
APA    47.48 338 iP      45 05.00    0.9
                 iS      52 08.00
ORV    47.67  83 ePc     45 05.00   -1.0
TRO    47.79 346 iPc     45 08.00    1.6
WMO    48.13 287 ePc     45 09.46   -0.2
       4.0s  4500.00nm           6.9mb X
      N  15s   225.00um
                 PP      47 03.00
                 eS      52 11.16
                 eSS     55 49.67
JNW    48.31 358 eP      45 16.20    5.7X
BRK    48.62  85 ePc     45 13.00   -0.3
BKS    48.63  85 iPc     45 12.80   -0.6
       0.7s   225.00nm           6.3mb
      Z  20s    64.00um             6.6Msz
      N  20s    14.00um
      E  20s    66.00um
                 ePP     47 07.60
                 eS      52 22.00
                 eScS    55 10.20
                 eSS     55 59.90
                 eLQ     57 30.80
                 eLR     59 51.90
QZH    48.68 245 eP      45 11.50   -2.4
       4.0s  2600.00nm           6.6mb X
      Z  20s    56.50um             6.6Msz
      E  14s    25.90um
                 sP      45 25.00
                 S       52 14.00
                 sS      52 30.00
                 SS      55 43.00
SOD    48.80 341 iP      45 13.70   -0.6
                 i       45 19.20
FRB    48.82  29 eP      45 13.00   -1.4
       1.0s   164.00nm           6.0mb
PCC    48.85  85 ePc     45 14.60   -0.5
MHC    49.34  85 iPc     45 19.20    0.2
ARN    49.39  84 P       45 20.00    0.7
CMB    49.40  83 ePc     45 18.74   -0.7
                 esPd    45 24.70
                 ePP     47 17.75
                 e(ScP)49 54.10
KVN    49.71  80 P       45 22.20    0.2
SAO    49.89  85 eP      45 22.30   -0.9
GUA    49.96 209 eP      45 19.20   -4.6X
      Z  19s    21.53um          6.2Msz
                 e       45 20.80
LLA    50.25  84 iPc     45 25.80   -0.1
PRS    50.27  85 iPc     45 25.80   -0.3
BONR   50.47  81 P       45 28.60    0.7
FRI    50.56  83 iPc     45 27.80   -0.4
                 eScP    50 02.50
CD2    50.59 263 iPd     45 27.80   -0.7
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      Z  16s    70.50um             6.8MszX
      E  16s    70.80um
                 pP      45 35.40   25kmX
                 PP      47 29.00
                 S       52 35.00
                 sS      52 52.00
                 ScS     55 16.00
PRI    50.77  85 iPc     45 30.60    0.6
TNP    50.90  80 P       45 28.60   -2.4
DAU    51.90  74 P       45 40.00    1.2
ISA    52.21  83 iPc     45 40.41   -0.5
                 esPd    45 45.71
                 ePcP    46 52.25
                 eS      53 10.37
RSSD   52.28  66 ePd     45 41.00   -0.5
      Z  21s    76.09um          6.7Msz
SYP    52.40  85 eP      45 42.00   -0.3
CLC    52.52  82 eP      45 43.00   -0.1
GZH    52.65 249 iPc     45 43.00   -1.1
       4.0s  5200.00nm           6.8mb X
      Z  14s    66.70um             6.8MszX
      N  19s    91.30um
      E  18s   152.00um
                 iS      53 12.50
                 SS      56 50.00
GYA    52.89 258 iPc     45 45.20   -0.9
       3.0s  5200.00nm           6.9mb
      Z  24s    28.00um             6.2MszX
      N  20s    67.90um
      E  20s    74.00um
                 pP      45 58.00   46kmX
                 PP      47 47.00
                 S       53 14.00
HKC    52.95 248 iPc     45 46.30   -0.1
                 iS      53 20.00
MSU    52.97  76 P       45 47.40    0.7
GSC    53.31  82 eP      45 50.00    0.9
SBB    53.31  83 eP      45 48.00   -1.1
MCO    53.38 248 eP      45 50.00    0.4
NSS    53.49 347 eP      45 50.13    0.3
MWC    53.57  84 eP      45 51.00   -0.1
PAS    53.58  84 iPc     45 50.76   -0.2
                 epPd    45 54.73   13kmX
                 esPd    45 56.55
                 ePP     48 05.00
                 ePPP    49 05.00
                 ePcS    51 00.00
                 eS      53 27.84
                 eScS    55 45.00
                 eSSS    57 00.00
                 eLg     59 42.00
                 eLR     07 00.00
PIP    53.64 239 ePc     45 52.00    0.5
       1.0s     6.00nm           4.5mb X
AKU    53.66   3 iP      45 53.00    1.9
       1.0s   272.00nm           6.2mb
      Z  22s    74.07um          6.7Msz
KAF    53.70 338 iP      45 50.40   -1.0
CVP    53.70 237 ePc     45 53.00    1.1
       1.5s    14.00nm           4.7mb X
CIS    54.07  85 eP      45 57.00    2.5
RVR    54.09  83 eP      45 53.00   -1.7
PEC    54.28  83 ePc     45 56.00   -0.1
SCI    54.34  85 eP      45 59.20    2.7
SCI    54.34  85 eP      45 59.30    2.8
PV09   54.41  74 iPc     45 56.70   -0.7
                 e       46 14.00
                 e(PcP)47 02.70
                 ePP     47 57.20
TPC    54.64  82 eP      45 58.00   -0.8
FRU    54.84 296 iP      46 00.00   -0.2
                 eS      53 40.00
PLM    54.86  84 eP      46 00.00   -0.6
PUL    55.08 335 eP      46 02.00    0.4
                 eS      53 38.00
REY    55.09   5 e(P)    45 56.70   -4.9X
RGS    55.12 347 eP      46 01.00   -0.9
CPE    55.13  84 eP      46 05.00    2.7
GOL    55.19  70 iPc     46 03.20    0.1
       2.0s   847.46nm           6.4mb
      Z  19s    51.89um          6.6Msz
GLD    55.22  70 iPc     46 03.80    0.6
       2.0s  1381.82nm           6.6mb
      Z  19s    69.59um          6.8Msz
                 e       46 18.40
BAG    55.37 238 eP      46 02.00   -2.4
       1.7s   538.46nm           6.3mb
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                 eS      53 48.30
NUR    55.49 338 eP      46 03.00   -1.5
       0.8s   472.30nm           6.6mb
                 i       46 08.00
                 e       49 20.00
                 e       53 48.00
                 e       57 40.00
BAR    55.50  84 eP      46 05.00    0.0
IKP    55.80  83 eP      46 10.00    2.7
MOL    55.86 349 eP      46 08.11    0.9
KMI    55.90 260 ePc     46 07.33   -0.9
       3.0s  4400.00nm           7.0mb
      Z  18s    40.80um          6.6Msz
                 epPd    46 10.64   11kmX
                 esPc    46 12.95
                 PcP     47 06.53
                 ePP     48 10.26
                 eS      53 55.38
GLA    56.09  82 eP      46 10.00    0.7
OCP    56.77 236 eP      45 55.00  -19.2X
FRO    56.90 350 eP      46 16.97    2.3
NB2    56.97 346 P       46 13.50   -1.8
SCH    57.02  34 ePc     46 13.40   -2.3
       0.8s   337.00nm           6.4mb
FOO    57.05 350 eP      46 17.04    1.4
UPP    57.26 342 iP      46 15.50   -1.7
                 i       46 17.90
                 iS      54 06.00
HYA    57.37 349 iP      46 17.55   -0.4
HFS    57.54 345 eP      46 17.60   -1.6
       0.9s   281.70nm           6.3mb
      Z  16s     7.25um             5.9MszX
                 LR      05 35.00
SUE    57.60 350 iP      46 20.56    0.9
LSA    57.73 274 P       46 21.00   -0.5
      E  17s    60.30um
                 pP      46 33.00   42kmX
                 S       54 19.00
QIZ    57.77 250 iPc     46 22.00    0.7
       6.0s  5000.00nm           6.7mb X
      N  18s    36.70um
      E  17s    49.50um
                 pP      46 33.00   37kmX
                 PcP     47 12.50
                 S       54 16.00
                 sS      54 26.50
                 ScS     56 05.50
                 SS      58 07.50
PGP    57.84 236 ePc     46 21.00   -0.8
       1.5s     5.00nm           4.3mb X
OBN    57.88 329 iPd     46 20.00   -1.6
       1.9s  2200.00nm           6.9mb
      Z  48s    16.00um             5.7MszX
                 iS      54 22.00
ASK    58.13 350 eP      46 24.24    0.9
BER    58.22 349 iPd     46 24.95    1.0
ANMO   58.55  74 iPc     46 27.09    0.3
       1.5s   298.61nm           6.2mb
      Z  20s    42.55um          6.6Msz
                 epPd    46 30.81   12kmX
                 esPd    46 32.97
                 PcP     47 17.41
                 ePP     48 34.22
                 eS      54 35.43
                 eScS    56 19.17
                 eSS     58 45.65
ALQ    58.55  74 iPc     46 27.00    0.1
       1.5s   298.61nm           6.2mb
      Z  22s    33.33um          6.4Msz
ODD1   58.56 349 eP      46 27.03    0.6
ABN    58.88  62 P       46 20.00   -8.9X
KMY    59.38 349 iP      46 33.31    1.3
MAP    59.55 231 iPd     46 34.00    0.3
       1.0s     3.00nm           4.4mb X
DSH    60.89 297 eP      46 42.00   -0.7
                 eS      55 01.00
CGP    60.99 230 ePd     46 43.00   -0.5
       1.0s     8.00nm           4.8mb X
MUD    61.68 346 iPd     46 50.00    2.2
       1.1s   380.00nm           6.5mb
                 i       47 33.20
GUN    61.78 277 P       46 47.82   -1.5
COP    62.03 344 iPd     46 51.60    1.5
       0.9s   739.50nm           6.9mb
PPR    62.11 236 ePd     46 52.00    0.9
       1.0s    15.00nm           5.1mb X
KKN    62.17 278 P       46 50.34   -1.4
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08d 11h

BSD	62.24	342	eP	46	53.20	1.7				eS	56	10.58						S	56	00.00		
	0.9s	490.00nm			6.7mb					eSKS	57	08.27					PSZ	68.32	337	eP	47	23.10	-7.8X
		i	48	08.00						eSS	00	54.11					ABH	68.34	346	eP	47	29.65	-1.3
PKI	62.29	277	P	46	51.14	-1.5	BRG	66.50	342	iP	47	17.80	-1.4				MZX	68.36	81	(P)	47	31.50	0.2
GKN	62.31	278	P	46	51.24	-1.3		1.5s	440.00nm			6.4mb					DOU	68.45	348	Pc	47	31.20	-0.4
GAC	62.34	45	eP	46	50.00	-2.3				i	47	23.20						Z 19s	17.30um			6.3Msz	
	0.9s	217.00nm			6.3mb					iS	56	16.00								e	52	06.70	
DMN	62.41	278	P	46	52.04	-1.3				iScS	57	12.00								S	56	27.00	
ELF	62.42	50	P	46	51.30	-1.6				eP'P'	15	43.40					ZST	68.57	339	eP	47	31.80	-0.5
BIX	62.55	65	e(P)	46	53.20	-0.6	KKM	66.52	237	ePc	47	20.00	0.1					Z 15s	102.40um			7.2MszX	
DLA	62.61	50	P	46	53.20	-0.9		1.0s	90.00nm			5.9mb								i	47	36.50	
EDU	62.63	354	eP	46	55.60	1.5	ETA	66.62	356	iPd	47	20.80	0.8							e	51	32.60	
	0.9s	352.00nm			6.5mb			1.1s	380.00nm			6.5mb								i	52	08.80	
ELO	62.74	354	ePd	46	56.30	1.4	KHT	66.73	258	iPc	47	20.10	-1.1				VKA	68.64	339	iPc	47	33.80	1.0
	1.0s	209.00nm			6.3mb		TXNY	66.77	46	P	47	20.20	-0.9					3.0s	2239.00nm			6.8mb	
CCM	62.80	60	iPc	46	54.82	-0.7	ECB	66.97	356	iPd	47	23.40	1.2					Z 16s	49.90um			6.8MszX	
			epPd	46	58.71	13kmX		1.4s	974.00nm			6.8mb								i	47	37.40	
			esPd	47	00.70		PNJ	67.02	46	iP	47	21.80	-0.9							i	48	06.90	
			eS	55	25.31					PP	47	34.10								i	49	55.70	
			eSS	59	29.89					PcP	47	43.60								iPP	50	06.20	
			eSS	59	53.87					PP	49	58.70								i	50	10.30	
EBH	62.95	354	ePd	46	58.00	1.8				PPP	50	50.90								iS	56	30.50	
	1.0s	404.00nm			6.6mb					(PcS)	50	53.60								i	01	18.00	
LOE	62.97	257	iPc	46	56.60	-0.2				(S)	56	22.30								LR	22	24.00	
EAB	63.05	355	ePd	46	58.60	1.7	GMTN	67.03	46	iP	47	21.50	-1.3				SRO	68.72	338	iP	47	33.30	0.1
	1.1s	278.00nm			6.4mb		SPC	67.04	337	iP	47	24.50	1.5				QUE	68.75	294	iPd	47	33.30	-0.6
CHG	63.10	260	iPc	46	56.90	-0.7	MOX	67.06	343	iPd-	47	22.00	-0.9					1.1s	1493.67nm			7.1mb	
	1.1s	294.30nm			6.4mb			1.4s	199.00nm			6.1mb								ePP	49	59.40	
			eS	55	30.00			Z 14s	45.20um			6.8MszX								eS	56	39.20	
CHTO	63.10	260	ePc	46	56.01	-1.6		N 16s	53.50um								VRI	68.82	331	ePc	47	33.50	-0.4
			epPd	46	59.32	11kmX		E 20s	22.80um								BUD	68.91	337	eP	47	34.10	-0.3
			ePP	49	15.93					i	47	27.00					CVO	68.99	332	ePc	47	36.00	1.0
			e	50	53.87		ECP	67.14	356	iPd	47	24.60	1.3				CFR	69.12	330	eP	47	35.00	-0.7
FVM	63.21	60	eP	46	56.10	-2.1		1.1s	858.00nm			6.8mb					KMR	69.20	341	iP-	47	36.20	0.0
	1.0s	665.00nm			6.8mb		UZH	67.16	335	iPd	47	25.00	1.5							i	47	40.40	
			iScP	51	31.90					iS	56	18.00								iPcP	48	02.30	
ESY	63.24	353	eP	46	58.10	0.0	PRU	67.26	341	P	47	23.20	-0.9							iPP	50	15.70	
	1.0s	149.00nm			6.1mb			1.4s	28.00nm			5.2mb X								iPPP	51	51.30	
EAU	63.35	354	ePd	47	00.80	1.9		Z 15s	74.30um			7.0MszX								eS	56	34.00	
	1.2s	341.00nm			6.4mb			N 14s	67.80um											iSP	57	02.20	
EBL	63.40	354	ePd	47	00.90	1.7		E 13s	25.50um								GWF	69.22	346	P	47	35.55	-0.8
	1.2s	173.00nm			6.1mb					e	47	25.40					STU	69.22	345	eP-	47	35.00	-1.3
CBM	63.65	39	ePc	46	59.30	-1.6				PP	49	52.50						1.1s	455.70nm			6.6mb	
RSNY	63.68	45	ePd	46	59.30	-1.9				S	56	18.00						Z 20s	59.57um			6.8Msz	
CLE	63.80	51	iP	47	01.90	-0.1				SS	00	52.00					MLR	69.35	332	ePc	47	38.50	1.2
EKA	63.85	354	P	47	02.00	-0.1	RSCP	67.27	57	ePd	47	22.00	-2.4				FUR	69.53	343	eP	47	38.80	0.6
	1.0s	150.30nm			6.1mb			Z 21s	60.87um			6.8Msz					ISR	69.55	331	ePc	47	39.50	1.1
ESK	63.87	354	ePd	47	03.30	1.1	BNS	67.32	346	eP	47	23.50	-0.9				DEV	69.66	334	iPc	47	43.00	4.0X
	1.0s	540.00nm			6.7mb			1.6s	916.00nm			6.7mb					WLS	69.81	346	P	47	39.04	-0.9
BDT	64.41	259	eP	47	02.70	-3.5X		Z 15s	68.00um			7.0MszX					CDF	69.82	346	P	47	39.21	-0.9
	1.1s	365.30nm			6.5mb					ic	05	54.60					UZD	69.85	337	e(P)	47	38.00	-2.1
OLY	64.86	62	P	47	07.50	-1.5	HOF	67.35	343	eP	47	23.70	-1.0				COZ	69.88	333	ePc	47	42.00	1.4
BRL	65.04	343	eP	47	11.00	1.1	MNI	67.42	227	eP	47	24.80	-0.7				ECH	70.02	346	P	47	40.40	-0.8
BRN	65.10	343	eP	47	09.00	-1.3	VAL	67.49	358	iP	47	26.80	1.3				SVO	70.06	188	eP	47	45.00	3.3X
NST	65.23	257	iPd	47	13.00	1.5				S	56	23.00					TIM	70.15	335	iPd	47	44.00	2.0
NDI	65.29	285	iPc	47	10.00	-1.8	ENN	67.65	347	ePd	47	26.00	-0.5				GZR	70.15	334	iPc	47	51.00	8.9X
	0.8s	216.42nm			6.4mb			1.5s	1567.00nm			7.0mb					VITF	70.16	347	P	47	41.42	-0.6
			ePP	49	41.00					e	47	43.00					BZS	70.18	335	eP	47	37.50	-4.7X
			eS	55	52.00					e	47	53.00					TAB	70.20	314	eP	47	44.00	1.4
			eSS	00	10.00					e	52	04.00					FLN	70.22	351	eP	47	39.90	-2.5
WIT	65.55	347	eP	47	14.50	1.4				eP'P'	15	47.00						1.3s	902.55nm			6.7mb	
SCP	65.78	49	ePc	47	13.22	-1.6	NAV	67.70	53	P	47	25.40	-1.7					Z 20s	60.00um			6.8Msz	
			epPd	47	17.03	12kmX	UCC	67.78	348	P	47	29.20	1.8				FEL	70.25	345	P	47	41.67	-1.1
			ePP	49	45.61					S	56	27.00					KBA	70.28	341	ePc	47	42.50	-0.5
RAB	65.93	196	iP+	47	16.00	0.0	SIM	67.79	326	iPc	47	28.00	0.5					1.0s	492.00nm			6.6mb	
			iS	56	10.00					eS	56	30.00								id	47	43.20	
KSP	66.15	340	iPd	47	16.10	-0.9	MEM	67.80	347	Pc	47	20.40	-7.0X							i	47	47.20	
	1.1s	518.00nm			6.6mb					e	47	23.70								i	47	56.70	
			id	47	17.80					ed	47	27.00					WATA	70.30	343	ePc	47	42.00	-1.1
			e	49	40.00		BMR	67.83	334	ePc	47	46.00	18.3X					1.1s	509.00nm			6.6mb	
CLL	66.21	343	iP	47	15.80	-1.6	BKR	67.88	318	iP	47	27.50	-0.8							id	47	42.70	
	1.5s	850.00nm			6.7mb					iS	56	30.00								i	47	47.60	
	Z 18s	44.00um			6.7Msz		TNS	67.89	345	ePd	47	28.00	-0.2				SLE	70.30	345	ePd	47	42.10	-0.8
			eS	56	07.00		BLA	67.94	53	ePd	47	26.50	-2.1				HAU	70.33	346	eP	47	40.70	-2.4
KRA	66.27	338	iP	47	18.90	1.1		0.8s	201.49nm			6.3mb						1.2s	720.55nm			6.7mb	
	0.9s	619.00nm			6.8mb			Z 18s	59.79um			6.9Msz						Z 22s	67.50um			6.9Msz	
			i	47	21.30					pP	47	42.00	56kmX				HNR	70.33	187	eP	47	43.00	-0.4
			i	47	33.90		CEI	68.04	335	ePd	47	36.00	7.0X							e(S)	56	59.00	
WTS	66.34	347	iPd	47	18.00	-0.2	SNF	68.07	348	P	47	29.10	-0.1				BUC	70.34	331	iPc	47	44.00	0.9
	0.9s	647.00nm			6.8mb					e	52	07.30					MOTA	70.36	343	ePc	47	42.00	-1.5
			e	49	45.00		NNT	68.09	256	eP	47	30.40	0.7					1.0s	420.00nm			6.5mb	
			e	51	54.00		NA2	68.16	50	P	47	28.50	-1.4							id	47	42.90	
DBN	66.41	348	iP-	47	21.00	2.4	CBN	68.23	50	eP	47	29.50	-0.8							i	47	47.80	
	Z 20s	23.50um			6.4Msz		KHC	68.25	342	iP	47	30.00	-0.4				WTTA	70.36	342	ePc	47	42.50	-1.0
			iS	56	12.00			1.2s	305.00nm			6.4mb						1.0s	489.00nm			6.6mb	
			eSS	00	24.00			N 14s	59.50um											id	47	43.20	
HRV	66.49	43	ePc	47	19.09	-0.2		E 14s	60.00um											i	47	48.20	

08d 11h

LDF	70.37	351	eP	47	40.60	-2.7	IVA	73.17	335	iPd	48	00.65	0.5				e	48	33.10				
MOF	70.39	346	P	47	42.53	-1.0	BNI	73.20	346	P	48	00.20	-0.2	OHR	74.67	334	iP	48	14.10	5.2X			
BUC1	70.42	331	ePc	47	46.00	2.4	SSB	73.22	347	P	47	58.08	-2.3		1.9s	1294.00nm				6.6mb			
BSF	70.45	346	P	47	43.21	-0.7	RZN	73.24	331	iPd	48	02.00	1.2				i	48	20.30				
SOTA	70.46	343	ePc	47	43.00	-1.1	KER	73.24	312	eP	48	02.00	1.2				i	48	25.00				
	0.9s	544.00nm				6.7mb	RRL	73.31	345	P	48	01.60	0.4	FRF	74.67	345	eP	48	06.20	-2.6			
			id	47	43.70		BHB	73.33	345	P	48	00.16	-0.9		1.0s	122.00nm				5.9mb			
			i	47	48.70		LBL	73.40	348	P	48	01.27	-0.1	CRX	74.83	78	(P)	48	11.00	0.5			
DRA	70.51	333	eP	47	47.00	2.8	NKY	73.40	336	iPd	48	03.20	1.6	LMR	74.91	345	eP	48	08.30	-1.9			
PSN	70.52	330	eP	47	46.00	1.7	BRY	73.41	336	iPd	48	01.11	-0.5	MNS	74.96	341	P	48	11.70	1.2			
GRR	70.62	351	eP	47	42.20	-2.6	PVY	73.42	335	iPd	48	05.25	3.6X	PRK	75.18	329	eP	48	12.00	0.3			
SAX	70.69	344	ePd	47	45.10	-0.6	PCP	73.46	344	P	48	00.78	-1.1	KHL	75.21	327	eP	48	11.70	-0.4			
BBS	70.72	345	P	47	46.19	0.7	RJF	73.49	349	eP	48	00.00	-2.0	AZI	75.22	340	P	48	12.90	1.0			
SRE	70.76	333	ePc	47	47.00	1.3	Z	20s	47.50um			6.8Msz		KZN	75.23	333	eP	48	13.10	1.0			
OGA	70.84	343	eP	47	46.30	-0.2	MME	73.50	342	P	48	03.00	0.7	LIT	75.26	333	ePd	48	13.34	1.1			
			i	47	48.00		HVAR	73.54	338	iP	48	04.10	1.9	PGF	75.36	343	P	48	13.34	0.5			
FVI	70.84	342	P	47	46.40	0.2	RDO	73.56	331	eP	48	02.90	0.6	DUI	75.37	339	P	48	15.68	2.8			
BST	70.91	354	P	47	46.59	0.0	MM8	73.56	332	iPd	48	02.00	-0.4		0.2s	32.10nm				6.0mb			
LOMF	70.92	346	P	47	45.59	-1.2	CKI	73.61	344	P	48	02.20	-0.4	KLM	75.51	250	eP	48	13.50	-0.4			
LPF	70.99	352	eP	47	44.60	-2.5	BDI	73.64	343	P	48	02.90	0.0	POO	75.53	282	iPd	48	12.20	-1.9			
LJU	71.09	340	ePc	47	48.00	0.2	PGD	73.66	342	P	48	04.30	1.2		1.1s	405.06nm				6.4mb			
			eS	57	04.00		DOI	73.67	345	P	48	03.20	0.1	MKS	75.54	229	ePd	48	14.20	0.1			
LLS	71.12	344	ePd	47	47.80	-0.3	ALN	73.67	330	ePd	48	04.58	1.6	RDP	75.56	340	P	48	18.40	4.4X			
OSS	71.14	343	ePd	47	47.80	-0.4	AOI	73.67	340	eP	48	06.70	3.7X	BRT	75.62	337	P	48	18.00	3.7X			
BEO	71.18	336	eP	47	47.00	-1.3	PZZ	73.68	345	P	48	02.01	-1.2	PPM	75.63	77	(P)	48	15.50	0.2			
KAS	71.20	325	iPd	47	49.50	1.0	SKO	73.71	334	iP	48	03.60	0.4	KGM	75.71	248	ePc	48	15.80	0.7			
VOY	71.21	341	eP	47	46.50	-2.1		1.9s	693.00nm			6.4mb		BOM	75.71	283	iP	48	13.70	-1.3			
			i	47	52.40		Z	16s	79.50um			7.1MszX					iS	57	53.70				
LOR	71.32	348	eP	47	46.80	-2.4	N	16s	62.86um					BCK	75.73	326	iP	48	15.60	0.6			
	1.2s	1324.90nm				6.9mb	E	16s	46.51um					IZM	75.73	328	eP	48	13.70	-1.3			
Z	18s	40.00um				6.7Msz			i	48	07.00			RFI	75.80	339	P	48	18.10	2.9X			
CEY	71.41	340	ePc	47	49.80	0.1			iPcP	48	14.00			BTH	75.81	350	P	48	15.70	0.4			
VDL	71.43	344	ePd	47	49.80	-0.2			i	49	14.00						pP	48	24.50	28kmX			
VVI	71.49	342	P	47	51.20	1.0			iPP	50	52.00						pPcP	48	34.80				
VBY	71.50	339	eP	47	43.20	-7.0X			iPPP	52	36.00						sPcP	48	40.00				
			i	47	51.70				i	53	12.00						PP	51	10.00				
			e	05	19.70				iS	57	38.00						PPP	52	54.00				
CTI	71.55	342	P	47	50.10	-0.5			iPS	58	13.00						S	58	01.00				
TRI	71.55	341	eP	47	51.90	1.5			iSS	02	38.00						e	58	23.00				
			e(S)	57	08.00				LR	25	40.00						SKS	58	28.00				
			e(SS)	02	16.00		KCT	73.71	328	eP	48	02.90	-0.4				PS	58	37.00				
			e(SSS)	05	16.00		BNT	73.72	329	iP	48	02.40	-0.9				SPP	58	47.00				
SSF	71.56	348	eP	47	48.30	-2.3	TTG	73.72	336	iPc	48	03.46	0.2				SS	02	54.00				
LBF	71.59	348	eP	47	48.10	-2.7			e(S)	57	36.00						PKKP	07	20.00				
PVL	71.65	331	eP	47	52.00	0.9	EDC	73.74	329	eP	48	03.00	-0.4	III	75.82	78	(P)	48	15.50	-0.5			
RIY	71.80	340	iPd	47	52.70	0.8	ROB	73.79	345	P	48	02.63	-1.1	EPF	75.85	350	eP	48	13.10	-2.5			
PMG	71.83	201	eP	47	51.00	-1.4	CAF	73.82	349	eP	48	02.30	-1.6		1.5s	530.50nm				6.4mb			
AVF	71.85	348	eP	47	49.80	-2.4	FIR	73.82	342	eP	48	05.00	1.2	EMON	75.92	356	iPc	48	16.70	0.8			
SMF	71.94	348	eP	47	50.20	-2.6	FIN	73.83	344	P	48	02.63	-1.3	LCI	76.00	336	P	48	18.80	2.4			
MMK	72.05	345	ePd	47	53.80	0.0	HCY	73.85	336	iPd	48	06.11	2.1	KEK	76.22	335	eP	48	21.10	3.4X			
JMB	72.06	330	iPd	47	55.00	1.4	MRX	73.86	79	(P)	48	06.50	2.2	IGT	76.28	334	ePd	48	19.22	1.2			
MDI	72.09	344	P	47	53.40	-0.3	CRE	73.86	341	P	48	06.00	1.8	SGO	76.28	338	P	48	21.90	3.9X			
DIX	72.09	345	ePd	47	54.00	-0.1	STV	73.91	345	P	48	02.21	-2.3	IISM	76.29	76	(P)	48	19.00	0.7			
BGF	72.13	349	eP	47	51.60	-2.3	ENR	73.92	345	P	48	02.32	-2.2	ETER	76.34	348	eP	48	18.00	-0.3			
VAI	72.13	344	P	47	53.30	-0.6	LFF	73.93	350	eP	48	02.60	-1.8	ECRI	76.49	352	eP	48	20.60	1.4			
SAL	72.14	343	P	47	55.50	1.5	BDV	73.95	336	iPd	48	07.26	2.6	STS	76.50	357	iPc	48	20.80	1.6			
EMS	72.16	346	ePd	47	54.60	0.2	SSO	73.95	340	e(P)	48	06.68	2.1	ORI	76.55	337	P	48	22.30	2.8			
MFF	72.35	351	eP	47	53.20	-2.0	GAZ	74.05	320	eP	48	08.00	2.8	ELL	76.58	326	eP	48	21.60	1.7			
DMK	72.38	329	iP	47	56.90	1.4	VAY	74.08	333	iP	48	05.40	0.0	YER	76.66	327	eP	48	21.00	0.8			
TCF	72.46	349	eP	47	53.60	-2.3		1.2s	484.00nm			6.4mb		ACX	76.93	79	(P)	48	11.50	-10.5X			
ORX	72.46	345	P	47	55.14	-0.9			i	48	07.60			ERUA	76.95	356	eP	48	22.50	0.8			
ORO	72.47	345	P	47	56.90	0.8	CIO	74.09	340	eP	48	05.15	-0.4	FAM	77.04	322	e(P)	48	27.60	5.3X			
MAF	72.49	349	eP	47	54.10	-2.0	SAOF	74.14	345	P	48	06.19	0.5	EZAM	77.24	357	eP	48	23.40	0.1			
PGB	72.55	332	iPd	47	58.00	1.5	LPO	74.14	350	eP	48	03.90	-1.8	CSS	77.27	322	eP	48	24.00	0.4			
LSF	72.56	350	eP	47	54.20	-2.3	AUTN	74.14	345	P	48	06.75	0.7	VLS	77.53	333	eP	48	25.10	0.1			
RSL	72.58	346	P	47	55.82	-1.0	TOUF	74.15	345	P	48	06.84	0.8	BHL	77.54	320	Pc	48	24.00	-1.2			
PLDF	72.63	348	P	47	56.87	-0.2	IMI	74.17	344	P	48	04.98	-1.0				PP	51	20.00				
DIM	72.71	331	eP	47	59.00	1.6	ULC	74.17	336	iPd	48	10.31	4.4X				S	58	12.00				
ITU	72.73	328	iPd	48	00.00	2.5	HY8	74.22	277	iPc	48	04.50	-2.1	PPCY	77.63	323	e(P)	48	18.50	-7.1X			
LPL	72.73	346	eP	47	56.10	-1.7		1.0s	550.00nm			6.5mb		GRI	77.76	337	P	48	28.05	1.8			
LSD	72.74	345	P	47	58.11	0.2			iS	57	39.00				0.9s	573.50nm				6.7mb			
LPG	72.75	346	eP	47	56.20	-1.8	DST	74.24	328	eP	48	06.20	-0.2	EBR	78.03	350	iP	48	28.00	0.4			
	1.2s	767.05nm				6.7mb	AURF	74.26	345	P	48	06.84	0.3				ePP	51	28.00				
ISK	72.76	328	eP	47	55.00	-2.7	SBF	74.27	345	eP	48	04.30	-2.3				iS	58	24.00				
PLE	72.83	336	iPc	47	58.55	0.3	MVIF	74.28	345	P	48	07.77	1.1	GBA	78.03	276	P	48	26.50	-1.5			
HRT	72.83	327	iP	47	53.40	-4.8X	ASS	74.29	341	P	48	08.00	1.3	EROQ	78.04	350	iPc	48	28.20	0.5			
CTT	72.84	328	iP	47	58.40	0.2	ALT	74.37	326	iP	48	07.90	0.7	HRI	78.10	320	eP	48	29.00	0.7			
PLD	72.85	332	iPd	48	00.00	1.8	REVF	74.40	345	P	48	07.81	0.5	ETOR	78.24	352	eP	48	29.30	0.4			
BKB2	72.89	233	iPc	48	02.10	3.3X	ALP	74.43	340	eP	48	07.11	-0.5	OXX	78.24	76	(P)	48	31.50	2.1			
BBTK	72.90	325	iPd	47	59.00	0.3	CALN	74.45	345	P	48	07.29	-0.4	PTO	78.25	357	iPc	48	28.50	-0.3			
PYM	72.91	348	P	47	58.52	-0.1	GRG	74.47	333	ePd	48	08.50	0.8				eS	58	25.00				
GBZT	72.92	328	eP	47	58.50	-0.1	IPM	74.49	251	ePd	48	07.80	-0.3	VLI	78.39	331	eP	48	28.40	-1.3			
RSP	73.03	345	P	47	59.24	-0.2		1.2s	242.00nm			6.1mb		GUD	78.55	353	eP	48	30.80	0.1			
KDZ	73.11	331	eP	48	02.00	2.2	EZN	74.62	330	eP	48	09.80	1.3	SOI	78.56	337	P	48	31.70	1.1			
BOB	73.12	344	P	47	59.90	0.0	THE	74.65	332	iP	48	11.66	3.0X	KUPT	78.65	224	eP	48	27.50	-3.8X			
YLV	73.15	328	eP	48	00.40	0.3	CDR	74.66	346	ePc	48	09.60	0.8	MML	78.98	320	eP	48	34.00	1.0			
GPA	73.16	327	iP	48	01.60	1.5			e	48	12.90			JARJ	78.99	319	P	48	33.64	0.5			

08d 11h

BURJ	79.03	320	Pc	48	35.83	2.4	COO	91.99	193	eP	49	36.00	-1.4	PAS	53.58	84	eP	50	26.00	0.4
NPS	79.12	329	eP	48	32.10	-1.6				e	51	12.00		RVR	54.09	84	eP	50	29.00	-0.3
EPLA	79.23	355	eP	48	34.50	0.2	RIV	95.28	193	eP	49	52.00	-0.4	TPC	54.64	82	eP	50	33.00	-0.5
SALJ	79.29	320	P	48	35.88	1.1		Z 22s		13.04um			6.4Msz	PLM	54.86	84	eP	50	35.00	-0.3
SALJ	79.29	320	P	48	36.03	1.3				e	53	40.00		NUR	55.37	338	iP	50	42.00	3.7X
TOL	79.30	353	ePc	48	35.88	1.2				eS	01	16.00			1.1s	127.20nm				5.9mb
			ed	48	38.53					e	08	04.00		BAR	55.50	84	eP	50	39.00	-0.7
			ec	48	40.02		ARO	95.50	305	eP+	49	55.50	1.3	NB2	56.84	346	P	50	49.60	0.5
			ePP	51	38.00		MEKA	95.66	222	eP	49	54.00	-0.4		1.1s	111.60nm				5.8mb
			eS	58	37.58		CAR	97.17	53	iPd	50	00.00	-1.8	MUD	61.56	346	iPc	51	27.20	5.6X
			ePS	59	40.00		BMG	97.77	60	eP	50	04.00	-0.5		1.2s	33.00nm				5.4mb
			iSS	03	53.00		AAE	99.38	308	eP	50	14.50	2.5	EKA	63.72	354	Pd	51	37.50	1.5
ECHE	79.38	351	eP	48	35.70	0.6	BOG	99.54	62	eP	50	12.00	-0.8		0.8s	21.50nm				5.4mb
MCT	79.43	339	P	48	42.40	6.8X				iPP	54	20.00		NNT	68.11	256	eP	52	05.60	1.1
MDSJ	79.45	319	P	48	36.43	0.7	PSO	101.16	67	ePdiff	50	22.00	1.9	ABH	68.21	346	eP	52	09.22	4.4X
CVT	79.53	339	P	48	39.90	4.0X	SNZO	102.05	174	ePdiff	50	20.00	-2.9X	CDF	69.69	346	eP	52	13.50	-0.5
MKRJ	79.72	319	P	48	39.01	1.9				PP	54	40.00			1.2s	41.65nm				5.5mb
LISJ	80.06	319	Pd	48	39.60	0.8				SKS	01	08.00		FLN	70.10	351	eP	52	15.50	-0.8
GHZJ	80.40	318	P	48	41.40	0.6	BCAO	110.40	326	ePdiff	51	13.50	12.8X		1.7s	250.00nm				6.1mb
ACU	80.41	350	iPc	48	41.70	1.1		0.9s		86.00nm				KBA	70.16	341	iPc	52	19.30	2.3
EVIA	80.44	352	eP	48	41.50	0.6				i	54	37.20			1.4s	108.00nm				5.8mb
KOD	80.93	275	eP	48	42.90	-1.1				i	55	16.10				i		52	22.90	
			eS	58	50.80					i	55	36.50		HAU	70.20	346	eP	52	16.60	-0.4
PRNI	81.05	319	eP	48	44.00	-0.1	KIC	112.63	351	Pdiff	51	20.82	10.2X		1.2s	62.50nm				5.6mb
EVAL	81.73	355	iPd	48	49.70	2.2	LIC	112.79	351	Pdiff	51	19.74	8.4X	LDF	70.24	351	eP	52	16.40	-0.8
RYD	82.08	308	ePc	48	49.50	-0.1	ZOBO	120.74	66	PKP	55	22.60	0.5		1.0s	48.00nm				5.6mb
KNA	82.28	217	eP	48	49.50	-1.0	LPB	120.99	67	PKP	55	23.00	0.7	BSF	70.32	346	eP	52	17.00	-0.9
CTA	82.43	200	iPd+	48	50.10	-1.2	CNCB	121.28	67	PKP	55	24.20	1.1		1.2s	47.60nm				5.5mb
	2.1s	B80.00nm				6.5mb	CCH	122.60	65	PKP	55	26.00	0.8	GRR	70.50	351	eP	52	18.30	-0.5
			iS	59	04.00		SIV	123.56	59	PKP	55	26.20	-0.6		1.2s	113.05nm				5.9mb
MAL	82.47	353	iPd	48	51.50	0.1	SOB1	124.41	34	ePKP	55	29.80	1.3	LPF	70.87	352	eP	52	20.70	-0.3
			iS	59	11.00					e	55	35.20			1.0s	44.00nm				5.5mb
HLW	82.63	322	ePc	48	54.00	1.7	BUL	129.95	306	iPKPc	55	40.60	1.4	LOR	71.20	348	eP	52	22.80	-0.3
			e	49	20.00					iPP	57	58.20			1.1s	92.80nm				5.8mb
			e	50	53.00					iSKP	59	02.30		SSF	71.44	348	eP	52	24.30	-0.2
			e	50	57.00		PPD	132.93	52	ePKP	55	43.90	-0.7		1.4s	106.75nm				5.8mb
			e	52	00.00		ROCH	133.63	80	ePKP	55	38.00	-7.9X	LBF	71.47	348	eP	52	24.60	-0.2
			e	52	28.00		LCCH	133.78	81	ePKP	55	46.00	0.1		0.9s	19.65nm				5.2mb
			e	53	04.00		PEL	133.93	80	ePKP	55	35.00	-11.3X	AVF	71.72	348	eP	52	25.90	-0.3
			e	53	36.00		TACH	134.23	81	ePKP	55	40.00	-6.8X		1.3s	126.35nm				5.9mb
			e	53	56.00		LNV	134.24	81	ePKP	55	44.50	-2.2X	SMF	71.82	348	eP	52	26.10	-0.7
			e	55	10.00		BFT	134.31	301	iPKPc	55	36.50	-10.9X		1.2s	56.55nm				5.5mb
			e	55	30.00					i	55	47.50		BGF	72.00	349	eP	52	27.40	-0.5
			e	57	23.00		PCH	134.40	80	ePKP	55	37.00	-10.2X		0.9s	25.40nm				5.3mb
			e(S)	59	13.00		SLR	135.08	303	ePKPc	55	47.60	-1.2	TCF	72.33	349	eP	52	29.70	-0.2
			e	59	17.00			0.9s		58.82nm					1.0s	44.00nm				5.5mb
			e	00	27.00			Z 22s		34.81um			7.0Msz	MAF	72.36	349	eP	52	30.10	0.1
DZM	82.68	181	iPc	48	53.80	1.2				ec	55	54.38			1.5s	127.95nm				5.8mb
PMO	83.74	136	iP	48	59.70	1.7				iSKP	59	23.02		LSF	72.43	349	eP	52	30.30	-0.1
	1.4s	405.00nm				6.4mb	VAO	135.43	47	ePKP	55	42.90	-6.5X		1.3s	93.85nm				5.7mb
TPT	83.81	136	iP	49	00.40	2.0	BMA	136.13	44	ePKP	55	41.80	-8.9X	LPL	72.61	346	eP	52	32.30	0.5
	1.4s	805.00nm				6.7mb				e	55	51.00			1.3s	63.20nm				5.5mb
VAH	84.05	136	iP	49	01.20	1.6	LPA	141.38	68	ePKP+	56	02.00	2.1X	LPG	72.63	346	eP	52	32.30	0.3
	1.4s	540.00nm				6.6mb		Z 20s		25.53um			7.0Msz		1.2s	83.30nm				5.7mb
RUV	84.08	136	iP	49	01.40	1.6				ePP	00	38.00		RJF	73.37	349	eP	52	35.70	-0.2
	1.4s	675.00nm				6.7mb	MAW	148.39	225	ePKP	56	15.00	4.4X		1.6s	105.70nm				5.7mb
QIS	84.14	206	iPc	48	59.40	-0.6		1.3s		483.00nm				CAF	73.69	349	eP	52	38.00	0.1
	1.5s	300.00nm				6.3mb	SPA	150.74	180	iPKPc	56	12.90	-1.5		1.6s	152.35nm				5.8mb
			e	52	28.00			1.0s		145.00nm				LFF	73.80	350	eP	52	38.40	0.0
			e	53	34.00			Z 20s		4.73um			6.3Msz		1.1s	68.35nm				5.6mb
WAJH	84.39	317	ePc	49	03.70	2.3				i	59	49.90		LPO	74.02	350	eP	52	39.80	0.1
PPT	85.58	139	eP	49	08.00	0.8		S.D. = 1.3		on 492 of 547 obs.					1.6s	174.15nm				5.8mb
	1.4s	220.00nm				6.2mb	----------							SBF	74.15	345	eP	52	40.50	-0.1
PPN	85.59	139	eP	49	08.00	0.7		MAR 08, 1991		11h 41m 02.62± 0.28s					1.4s	104.55nm				5.7mb
	1.4s	145.00nm				6.0mb		61.029 N ± 6.5km		167.003 E ± 5.2km				LRG	74.69	346	eP	52	44.10	0.6
PAE	85.67	139	eP	49	09.00	1.4		DEPTH = 10.0km		(geophysicist)				LMR	74.79	345	eP	52	43.90	-0.2
	1.4s	185.00nm				6.1mb		5.6mb (36 obs.)		5.3Msz (1 obs.)				PGF	75.23	343	eP	52	46.40	-0.5
IFR	85.70	353	iP	49	07.50	-0.6		EASTERN SIBERIA					(671)		1.1s	39.05nm				5.4mb
			i	49	09.00									BTH	75.68	350	P	52	54.00	4.7X
			i	49	10.00		MAT	30.52	230	iPc	47	17.30	-0.6			(SKS)		02	54.00	
TVO	85.89	139	eP	49	10.00	1.2		1.0s		135.00nm			5.8mb	EPF	75.73	350	eP	52	49.30	-0.3
	1.4s	135.00nm				5.9mb	SSE	42.27	246	Pd	48	57.50	0.1		1.2s	46.10nm				5.4mb
AVE	86.03	355	iPc	49	12.00	2.5		2.0s		244.00nm			5.6mb	TOL	79.18	353	eP	53	11.00	2.3
			i	49	50.50					sP	49	15.80		ASPA	88.55	210	eP	53	55.10	-1.2
RMO	88.34	196	iPc	49	20.50	0.0	SES	44.38	65	eP	49	15.00	0.5		0.9s	27.00nm				5.5mb
	1.5s	450.00nm				6.6mb		1.3s		347.00nm			6.1mb	BRS	88.86	193	iP	53	58.50	0.8
TIO	88.38	355	iP	49	25.00	3.9X	LZH	46.35	267	eP	49	31.00	0.6	KUK	112.26	346	ePdiff	55	30.00	-13.7X
			i	49	50.00			1.0s		63.00nm			5.6mb	KOGH	112.35	346	ePdiff	55	52.50	8.4X
ASPA	88.45	210	iPc	49	20.20	-0.9	KEV	46.45	342	iP	49	36.00	5.4X	SHGH	112.48	346	ePdiff	55	43.00	-1.7
	1.4s	76.50nm				5.8mb	SOD	48.68	341	iP	49	52.20	4.1X	LEGH	112.77	346	ePdiff	55	46.50	0.5
BRS	88.74	193	iPc-	49	24.20	1.8	SYP	52.40	85	eP	50	18.00	1.0	NNA	112.97	73	ePdiff	55	46.00	-0.9
			eS	59	45.00		CLC	52.51	82	eP	50	18.00	0.2		1.2s	28.13nm				
OLP	89.13	200	eP	49	23.00	-1.2	GSC	53.31	82	eP	50	24.00	0.3		Z 20s	0.71um				5.3Msz
MGP	90.26	50	P	49	30.00	0.1	SBB	53.31	83	eP	50	24.00	0.3	PT10	112.99	73	e(Pdiff	55	50.00	3.1X
PORP	90.39	50	P	49	29.00	-1.6	MWC	53.57	84	eP	50	26.00	0.2		S.D. = 0.8		on 51 of 61 obs.			
SJG	90.52	50	eP	49	31.50	0.3	KAF	53.58	338	iP	50	28.90	3.7X	----------						
CPD	90.67	49	P	49	31.00	-0.9		1.0s		45.60nm			5.4mb		MAR 08, 1991		11h 54m 57.83± 0.10s			

60.834 N ± 2.2km 167.057 E ± 1.9km
DEPTH = 10.0km (geophysicist)
5.9mb (104 obs.)
EASTERN SIBERIA (671)

SMY	8.99	151	eP	57	07.90	-2.6
PET	9.08	214	iPc	57	15.00	3.3X
	1.5s	420.00nm				6.6mb
N	13s	50.00um				
			eS	59	05.00	
			eLR	00	50.00	
ILT	9.37	35	eP	57	15.00	-0.8
			e	00	04.00	
			i	03	22.00	
ADK	12.68	128	eP	57	57.30	-3.5X
ANM	13.13	62	eP	58	05.60	-1.2
TTA	17.38	67	eP	59	03.20	1.5
BRW	17.69	39	eP	59	06.50	1.1
SDN	17.88	93	eP	59	09.50	1.7
	1.2s	1044.70nm				5.8mb
SVW	17.96	73	eP	59	10.30	1.4
IMA	18.07	56	ePc	59	11.90	1.6
	1.5s	643.70nm				5.5mb
RSO	19.49	73	P	59	27.00	-0.8
FBA	20.63	59	iPc	59	40.00	0.5
SLKM	20.66	72	P	59	38.30	-1.6
PMR	20.82	69	ePc	59	40.00	-1.4
TOA	22.00	66	iPc	59	54.70	1.2
ASAJ	22.17	232	eP	59	53.50	-1.7
KUSJ	22.28	227	eP	59	51.50	-4.7X
MID	22.88	73	eP	00	03.00	1.0
HOOJ	23.41	229	eP	00	05.70	-1.7
BALM	24.09	67	iPc	00	14.60	0.6
MRRJ	24.22	232	eP	00	13.30	-1.9
INK	25.58	48	iPc	00	27.90	-0.1
	0.7s	181.00nm				5.9mb
OFUJ	26.90	228	P	00	41.50	1.1
MDJ	27.39	251	eP	00	42.50	-2.4
YAMJ	28.30	229	P	00	53.40	0.3
MBC	28.41	29	ePd	00	53.50	-0.3
	1.0s	32.00nm				5.1mb
SIT	29.13	71	eP	01	01.70	1.3
	0.9s	348.60nm				6.2mb
NIIJ	29.50	230	P	01	03.90	-0.1
CN2	29.95	254	P	01	07.40	-0.5
KAKJ	30.00	227	P	01	08.10	-0.3
MAT	30.42	230	iPc	01	11.80	-0.4
	1.0s	347.00nm				6.2mb
MTMJ	30.53	231	P	01	13.20	-0.1
CHJJ	30.56	229	P	01	13.70	0.3
IIDJ	31.47	230	P	01	21.60	0.1
TSRJ	32.15	232	eP	01	27.30	-0.1
SNY	32.34	254	eP	01	28.30	-0.6
	1.8s	600.00nm				6.2mb
YONJ	33.45	235	eP	01	39.00	0.3
WKYJ	33.46	232	P	01	39.20	0.3
TKSJ	34.27	233	P	01	46.40	0.6
YKA	35.10	52	eP	01	52.00	-0.6
	0.8s	97.80nm				5.7mb
SHNJ	35.33	237	eP	01	55.10	0.2
DL2	35.56	253	eP	01	57.40	0.7
	1.0s	300.00nm				6.1mb
KUMJ	36.83	236	P	02	07.70	0.2
BJI	37.26	260	eP	02	12.00	1.0
	1.5s	500.00nm				6.1mb
KAGJ	37.99	235	P	02	16.90	-0.4
HHC	38.87	265	P	02	24.60	-0.2
	1.4s	200.00nm				5.6mb
KBS	39.70	353	eP	02	34.50	3.4X
TIA	39.85	255	eP	02	33.70	1.0
TIY	40.89	261	Pc	02	42.40	1.0
	1.2s	140.00nm				5.6mb
PNT	41.31	72	iPc	02	45.60	1.0
	0.9s	210.00nm				5.9mb
EDM	41.43	63	iPc	02	46.10	0.5
SSE	42.22	246	Pd	02	52.50	0.3
	1.2s	120.00nm				5.5mb
			PcP	04	46.20	
NJ2	42.47	250	Pd	02	55.20	0.9
	1.0s	100.00nm				5.5mb
NEW	43.22	71	P	03	00.00	-0.3
SES	44.44	65	ePc	03	10.60	0.4
	1.2s	546.00nm				6.3mb
FFC	45.14	55	iPc	03	10.70	-5.0X
	1.0s	222.00nm				6.1mb
FHC	45.49	83	ePc	03	19.10	0.4
XAN	45.53	261	P	03	18.90	-0.2
WHN	45.82	253	Pd	03	22.50	1.2
	1.1s	100.00nm				5.7mb
			pP	03	34.00	41kmX
OPA	46.06	132	P	03	24.00	0.7
LBFM	46.09	81	eP	03	23.90	0.3
			ePP	05	40.00	
LZH	46.36	268	eP	03	26.00	0.2
	0.8s	192.00nm				6.2mb
Z	16s	17.78um				6.1MszX
N	12s	19.37um				
			pP	03	38.00	43kmX
			i	04	03.00	
WDC	46.37	82	iPc	03	25.70	0.2
			ePcP	05	00.10	
HON	46.40	133	P	03	27.00	1.0
KEV	46.64	342	iP	03	27.20	-0.1
	0.8s	24.90nm				5.3mb
GDH	47.00	18	ePd	03	28.00	-2.1
	1.0s	110.00nm				5.9mb
MIN	47.00	82	ePc	03	30.50	-0.3
			ePcP	05	02.60	
LRM	47.17	70	ePc	03	32.30	0.1
ORV	47.66	83	ePc	03	35.00	-0.8
			ePcP	05	04.80	
TRO	47.86	346	eP	03	37.20	0.3
WMQ	48.17	287	P	03	40.50	0.7
BRK	48.61	85	ePc	03	42.80	-0.3
			ePcP	05	08.80	
BKS	48.62	85	iPc	03	41.50	-1.7
	1.0s	109.00nm				5.9mb
OZH	48.66	245	Pc	03	42.00	-1.7
	0.7s	40.00nm				5.6mb
PCC	48.84	85	ePc	03	45.60	0.7
SOD	48.87	341	iP	03	44.30	-0.5
			e	07	03.00	
MHC	49.33	84	ePc	03	48.60	-0.3
ARN	49.38	84	P	03	48.70	-0.4
CMB	49.39	83	ePc	03	49.10	-0.2
			iPcP	05	11.40	
			eScP	07	04.90	
KVN	49.70	80	eP	03	51.70	-0.1
			e	07	07.00	
SAO	49.88	85	eP	03	52.50	-0.5
LLA	50.24	84	ePc	03	56.20	0.4
			eScP	07	11.90	
PRS	50.26	85	ePc	03	55.90	0.0
			ePcP	05	14.60	
BONR	50.47	81	eP	03	58.00	0.2
			e	07	14.00	
FRI	50.55	83	iPc	03	57.50	-0.5
			ePcP	05	15.60	
			eScP	07	13.80	
CD2	50.60	264	P	03	57.60	-0.9
	1.2s	200.00nm				5.9mb
PRI	50.76	85	ePc	04	00.20	0.4
			eScP	07	14.10	
TNP	50.89	80	iPd	04	00.00	-0.9
	1.0s	97.50nm				5.7mb
BCH	51.80	85	P	04	07.80	0.1
RSSD	52.30	66	P	04	10.80	-0.7
	1.0s	284.71nm				6.2mb
SYP	52.38	85	eP	04	13.00	0.8
CLC	52.51	82	eP	04	13.00	0.0
			e	05	16.00	
GYA	52.89	258	P	04	15.60	-0.4
HKC	52.94	248	eP	04	17.00	0.8
SBB	53.30	83	eP	04	18.00	-0.9
			e	05	26.00	
GSC	53.31	82	eP	04	18.00	-0.9
MWC	53.57	84	eP	04	20.00	-1.0
PAS	53.57	84	eP	04	20.00	-0.8
			e	05	26.00	
CVP	53.68	237	ePc	04	22.00	0.4
	1.0s	3.00nm				4.2mb X
AKU	53.73	3	iPd	04	22.80	1.3
	1.0s	68.00nm				5.6mb
KAF	53.77	338	iP	04	20.90	-0.9
PEC	54.27	83	ePc	04	25.00	-1.0
PV09	54.42	74	iPc	04	26.30	-1.0
			ePcP	05	30.00	
			e	05	40.00	
TPC	54.64	82	eP	04	28.00	-0.7
			e	05	31.00	
PLM	54.85	84	eP	04	30.00	-0.4
			e	05	32.00	
RGS	55.20	347	eP	04	31.50	-0.8
GOL	55.20	70	iPc	04	33.00	0.0
	1.1s	57.69nm				5.5mb
GLD	55.23	70	ePc	04	33.90	0.8
	1.5s	250.00nm				6.0mb
BAG	55.35	238	eP	04	33.00	-1.2
BAR	55.49	84	eP	04	34.00	-0.9
			e	05	34.00	
NUR	55.56	339	eP	04	34.00	-0.9
	1.3s	337.50nm				6.2mb
KMI	55.91	261	Pc	04	37.00	-1.2
GLA	56.09	82	eP	04	39.00	-0.2
NB2	57.04	346	P	04	44.50	-1.2
SCH	57.07	34	ePc	04	44.40	-1.5
	0.8s	226.00nm				6.3mb
UPP	57.33	342	iP	04	46.10	-1.5
			i	08	01.50	
HYA	57.44	349	eP	04	48.00	-0.4
HFS	57.61	345	eP	04	48.00	-1.6
	0.7s	64.50nm				5.8mb
PGP	57.82	236	ePd	04	51.00	-0.5
	1.2s	4.00nm				4.3mb X
ASK	58.20	350	eP	04	53.50	-0.2
BER	58.29	349	eP	04	54.00	-0.3
ANMO	58.55	74	iPd	04	56.40	-0.4
	1.2s	89.84nm				5.7mb
ALQ	58.55	74	iPc	04	56.60	-0.2
	1.0s	57.50nm				5.6mb
ODD1	58.63	349	eP	04	56.00	-0.9
MAP	59.52	231	eP	05	03.00	-0.4
CGP	60.96	230	iPc	05	12.00	-1.2
	1.0s	7.50nm				4.8mb X
MUD	61.76	346	iPd	05	18.70	0.5
	1.2s	105.00nm				5.9mb
GUN	61.81	277	P	05	18.10	-1.3
PPR	62.09	236	eP	05	22.00	1.1
	1.0s	15.50nm				5.2mb
COP	62.11	344	iPc	05	21.90	1.4
	1.1s	268.35nm				6.3mb
KKN	62.20	278	P	05	20.56	-1.3
BSD	62.31	342	iPd	05	23.80	1.9
	0.8s	78.00nm				5.9mb
PKI	62.32	277	P	05	21.32	-1.4
GKN	62.33	278	P	05	21.44	-1.2
GAC	62.38	45	eP	05	20.50	-2.0
	0.6s	133.00nm				6.3mb
DMN	62.43	278	P	05	22.30	-1.1
ELF	62.45	50	P	05	21.40	-1.6
LDN	62.63	50	P	05	22.40	-1.8
DLA	62.64	50	P	05	23.10	-1.2
EDU	62.70	354	eP	05	24.70	0.2
	1.0s	96.00nm				5.9mb
LOE	62.97	257	eP	05	25.60	-1.1
			e	08	41.50	
EBH	63.02	354	eP	05	27.00	0.4
	0.8s	114.00nm				6.1mb
EAB	63.12	355	eP	05	27.70	0.5
	1.2s	76.00nm				5.8mb
FVM	63.23	60	iPc	05	26.80	-1.4
ESY	63.31	354	eP	05	28.80	0.3
	0.6s	47.00nm				5.9mb
EDI	63.33	354	eP	05	28.80	0.2
EAU	63.42	354	eP	05	29.80	0.6
	0.7s	64.00nm				5.9mb
EBL	63.47	354	eP	05	30.20	0.6
	1.2s	37.00nm				5.4mb
CBM	63.69	39	ePc	05	29.30	-1.8
RSNY	63.72	45	ePc	05	29.50	-1.8
	0.7s	55.36nm				5.9mb
CLE	63.83	51	iP	05	31.00	-1.1
EKA	63.92	354	Pc	05	31.90	-0.6
	0.7s	65.20nm				5.9mb
ESK	63.94	354	iPc	05	32.50	-0.1
	0.8s	116.00nm				6.1mb
BDT	64.42	259	eP	05	23.60	-12.6X
	1.0s	77.30nm				
BRL	65.11	343	eP	05	40.50	0.3
BRN	65.18	343	eP	05	41.50	0.8
NST	65.23	257	eP	05	43.50	2.1
NDI	65.33	285	iPd	05	41.00	-1.0
	0.6s	53.33nm				5.9mb
WIT	65.62	347	eP	05	45.00	1.5
			e	09	02.00	
KSP	66.22	340	iP	05	46.80	-0.6
	1.1s	72.00nm				5.8mb
			e	08	12.30	
CLL	66.28	343	iPc	05	47.00	-0.8
	1.6s	220.00nm				6.1mb
			i	05	57.00	

08d 12h

KRA	66.34	338	iPc	05	48.20	0.1	KBA	70.35	341	eP	06	13.50	0.1	KCT	73.78	328	eP	06	32.00	-1.6
	0.7s	51.00nm			5.8mb			1.6s	142.00nm			5.8mb		SKO	73.78	334	iP	06	33.60	0.1
		i		05	52.40					ic	06	14.50					i	09	51.80	
		i		05	58.90					i	06	21.40		BNT	73.79	329	iP	06	34.30	0.7
WTS	66.41	347	iPc	05	48.60	0.0				e	09	30.50		EDC	73.81	329	eP	06	34.00	0.3
	0.8s	130.00nm			6.2mb					i	09	32.70		MRX	73.85	79	(P)	06	36.00	1.7
		e		06	16.50		SLE	70.37	345	ePc	06	12.60	-0.7	ROB	73.86	345	P	06	33.08	-1.0
		e		09	05.00		HAU	70.40	346	iPc	06	12.80	-0.6	CAF	73.89	349	iPc	06	34.40	0.2
BRG	66.57	342	iP	05	58.80	9.2X		0.8s	79.25nm			5.9mb		FIR	73.89	342	eP	06	34.00	-0.2
	1.6s	110.00nm			5.8mb		WTTA	70.43	343	iPc	06	13.90	0.0	FIN	73.90	344	P	06	33.08	-1.2
		i		05	59.20			0.8s	66.30nm			5.8mb		CRE	73.93	341	P	06	34.24	-0.3
ETA	66.69	356	eP	05	50.10	-0.2	LDF	70.44	351	iPc	06	12.80	-0.8	STV	73.98	345	P	06	32.88	-1.9
	1.2s	230.00nm			6.2mb			1.2s	214.20nm			6.2mb		ENR	73.99	345	P	06	32.78	-2.1
KHT	66.73	258	iPc	05	51.10	0.0	MOF	70.46	346	P	06	13.29	-0.6	LFF	74.00	350	iPc	06	34.80	0.1
ECB	67.04	356	eP	05	52.40	-0.2	BSF	70.52	346	P	06	13.54	-0.7	SRS	74.11	332	iPc	06	35.88	0.4
	1.2s	170.00nm			6.1mb		PSN	70.59	330	eP	06	15.00	0.4	VAY	74.15	333	eP	06	36.70	1.0
MOX	67.13	343	iPc	05	53.00	-0.2	ZLA	70.66	345	ePc	06	14.60	-0.5		1.2s	98.00nm			5.7mb	
	0.9s	55.00nm			5.7mb		GRR	70.70	351	iPc	06	14.60	-0.6				i	06	39.00	
		i		05	56.00		BBS	70.79	345	P	06	15.50	-0.4				i	09	52.50	
		i		06	00.00		OGA	70.91	343	iPc	06	17.00	0.2	CIO	74.17	340	eP	06	35.65	-0.2
ECP	67.21	356	eP	05	53.50	-0.1		0.9s	35.00nm			5.5mb		LPO	74.21	350	iPc	06	36.10	0.1
	0.9s	211.00nm			6.3mb		FVI	70.91	342	Pd	06	16.90	0.4		0.8s	100.75nm			5.9mb	
RSCP	67.29	57	ePc	05	52.00	-2.5	BST	70.98	354	P	06	17.15	0.2	KNT	74.23	333	iPc	06	37.01	0.8
PRU	67.33	341	P	05	54.00	-0.5	LOMF	70.99	346	P	06	16.68	-0.4	IMI	74.24	345	P	06	35.13	-1.2
	0.8s	26.20nm			5.5mb		LPF	71.06	352	iPc	06	16.90	-0.5	HYB	74.24	277	iPd	06	35.90	-0.7
MNI	67.39	227	eP	05	54.40	-0.8	LLS	71.19	344	ePc	06	18.40	-0.1		1.0s	140.00nm			5.9mb	
TSM	67.40	235	ePc	05	56.00	0.7	OSS	71.21	343	ePc	06	18.40	-0.2	DST	74.31	328	eP	06	37.50	0.8
	1.0s	480.60nm			6.6mb		KAS	71.26	325	eP	06	20.50	1.7	SBF	74.34	345	iPc	06	36.40	-0.5
HOF	67.42	343	iPc	05	54.60	-0.5	LOR	71.40	348	iPc	06	18.80	-0.7	ASS	74.37	341	P	06	38.60	1.6
	0.8s	21.00nm			5.4mb			0.8s	125.95nm			6.1mb		SOH	74.45	332	iPc	06	37.50	0.0
ENN	67.72	347	eP	05	56.50	-0.4	VDL	71.50	344	ePc	06	20.60	0.2	IPM	74.48	251	ePc	06	38.00	0.0
	1.5s	500.00nm			6.5mb		CTI	71.62	342	Pd	06	20.40	-0.5		1.1s	150.30nm			5.9mb	
		i		06	23.60		SSF	71.64	348	iPc	06	20.40	-0.5	ALP	74.50	340	eP	06	37.90	0.0
		e		09	14.00		LBF	71.66	348	iPc	06	20.30	-0.8	GRG	74.54	333	iPc	06	38.98	1.0
UCC	67.85	348	P	06	00.50	2.8	PVL	71.72	332	iPd	06	22.00	0.6	OHR	74.74	334	eP	06	39.00	-0.2
MEM	67.87	347	Pc	05	57.70	-0.1	PMG	71.77	201	eP	06	21.00	-1.0		1.6s	240.00nm			6.0mb	
BMR	67.90	334	ePc	06	16.00	17.9X	RIY	71.87	340	eP	06	21.60	-0.7	FRF	74.74	345	iPc	06	38.60	-0.5
TNS	67.96	345	ePc	05	58.00	-0.5	AVF	71.92	348	iPc	06	22.10	-0.5		0.8s	26.85nm			5.3mb	
NNT	68.09	256	iPd	06	10.10	10.5X	SMF	72.01	348	iPc	06	22.30	-0.9	CRX	74.83	78	(P)	06	41.50	1.1
		e		09	16.20		MMK	72.12	345	ePc	06	24.50	0.4	LRG	74.88	346	iPc	06	39.80	-0.1
GRF	68.12	343	iPc	05	59.70	0.3	MDI	72.16	344	P	06	23.20	-0.8		0.8s	43.00nm			5.5mb	
	0.8s	74.00nm			5.9mb		DIX	72.17	345	ePc	06	24.60	0.2	FNA	74.93	334	iPc	06	40.00	-0.3
		ic		06	01.90		BGF	72.20	349	iPc	06	23.70	-0.6	LMR	74.98	345	iPc	06	40.10	-0.4
SNF	68.14	348	P	05	59.50	0.0	VAI	72.20	344	Pc	06	23.90	-0.3		0.9s	57.35nm			5.6mb	
CBN	68.26	50	eP	05	59.00	-1.4	EMS	72.24	346	ePc	06	24.60	-0.1	PAIG	75.23	332	iPc	06	41.60	-0.3
	1.0s	110.00nm			6.0mb		SNG	72.39	253	eP	06	26.40	0.6	KHL	75.28	327	iP	06	42.30	-0.1
KHC	68.32	342	Pc	06	00.80	0.1	MFF	72.42	351	iPc	06	25.30	-0.2	AZI	75.29	340	P	06	43.20	1.0
	1.2s	65.00nm			5.7mb			0.8s	64.50nm			5.8mb		LIT	75.33	333	iPc	06	42.37	-0.2
ABH	68.41	346	eP	06	00.71	-0.6	DMK	72.45	329	iP	06	25.40	-0.4	PGF	75.43	343	iPc	06	42.60	-0.6
WET	68.41	342	iPc	06	01.50	0.2	TCF	72.53	349	iPc	06	25.90	-0.3		0.7s	34.15nm			5.5mb	
	0.9s	67.00nm			5.8mb		ORX	72.53	345	P	06	25.60	-0.8	MKS	75.51	229	e(P)d	06	43.40	-0.4
DOU	68.52	348	Pc	06	01.50	-0.4	ORO	72.54	345	P	06	26.80	0.4	POO	75.56	282	iPd	06	42.40	-1.8
	0.7s	68.90nm			6.0mb		MAF	72.56	349	iPc	06	26.20	-0.2	PPM	75.63	77	(P)	06	45.50	0.3
ZST	68.64	339	iP	06	03.20	0.5	PGB	72.62	332	eP	06	27.00	0.1	KGM	75.70	248	ePd	06	46.10	1.2
VKA	68.71	339	iPc	06	03.00	-0.1	LSF	72.63	350	iPc	06	26.40	-0.4	BCK	75.79	326	iP	06	46.10	0.8
	4.0s	985.00nm			6.4mb	X	PLDF	72.70	348	P	06	27.57	0.2	III	75.82	78	(P)	06	45.50	-0.4
		i		06	06.10		DIM	72.77	331	eP	06	28.00	0.3	BTH	75.88	350	P	06	45.50	-0.1
SRO	68.79	338	iP	06	04.40	0.8	VTS	72.80	333	iPc	06	28.00	0.0				S	16	33.00	
		i		17	35.20		LPL	72.80	346	iPc	06	28.30	0.2	EPF	75.93	350	iPc	06	45.50	-0.5
OUE	68.79	294	eP	06	03.80	-0.3	LSD	72.81	345	P	06	28.67	0.5	EMON	75.99	356	iPd	06	46.30	0.0
	1.0s	435.00nm			6.6mb		LPG	72.82	346	iPc	06	28.50	0.2	IGT	76.35	334	iP	06	48.62	0.3
		e		09	19.20			0.7s	51.70nm			5.7mb		AGG	76.40	332	iPc	06	37.50	-11.1X
		e(S)		14	35.80		BKB2	72.86	233	iPd	06	31.00	2.5	ETER	76.41	348	eP	06	49.10	0.5
VRI	68.88	331	ePc	06	04.00	-0.2	PLD	72.92	332	eP	06	30.00	1.5	MGR	76.72	338	Pd	06	50.70	0.3
BUD	68.98	337	eP	06	05.30	0.6	BBTK	72.97	325	eP	06	30.00	1.0	ACX	76.93	79	(P)	06	40.00	-11.9X
CFR	69.19	330	eP	06	05.00	-1.0	PYM	72.98	348	P	06	29.42	0.4	TDS	77.04	337	Pd	06	53.20	1.1
GWF	69.29	346	P	06	06.48	-0.2	RSP	73.10	345	P	06	29.19	-0.5	EZAM	77.31	357	iPd	06	54.40	0.8
MLR	69.42	332	ePc	06	09.50	1.8	KDZ	73.18	331	eP	06	31.00	0.9	GBA	78.06	276	P	06	57.40	-0.7
FUR	69.60	343	eP	06	08.50	-0.1	BOB	73.19	344	P	06	30.70	0.5	EBR	78.11	350	iP	06	59.00	1.0
ISR	69.62	331	ePc	06	09.00	0.2	YLV	73.21	328	iP	06	30.40	0.0	EROQ	78.11	350	iPd	06	58.80	0.8
TIH	69.75	338	iP	06	10.00	0.6	BNI	73.27	346	P	06	31.80	1.1	HRI	78.17	320	eP	06	59.00	0.4
BHG	69.80	342	iPc	06	10.00	0.2	SSB	73.29	347	P	06	30.67	-0.1	OXX	78.24	76	(P)	07	00.00	0.7
	0.9s	70.00nm			5.8mb		RZN	73.31	331	iPd	06	32.00	0.9	ETOR	78.31	352	iPc	06	59.80	0.5
WLS	69.88	346	P	06	09.99	-0.3	RRL	73.39	346	P	06	32.16	0.6	KUPT	78.61	224	ePd	06	56.50	-4.5X
CDF	69.89	346	P	06	10.04	-0.4	BHB	73.40	345	P	06	29.90	-1.5	GUD	78.62	353	iPc	07	01.10	0.1
UZD	69.92	337	iP	06	13.00	2.5	LBL	73.47	348	P	06	32.11	0.4	SOI	78.63	337	Pd	07	00.80	-0.1
COZ	69.95	333	ePc	06	11.00	0.1	PCP	73.53	344	P	06	31.34	-0.8	ESEL	78.92	348	iPd	07	03.50	1.0
SVO	69.99	188	eP	06	11.00	-0.2	RJF	73.57	349	iPc	06	32.00	-0.3	EPLA	79.30	355	iPc	07	05.30	0.7
ECH	70.10	346	P	06	11.16	-0.4		0.9s	55.70nm			5.6mb		TOL	79.37	353	iPd	07	06.00	1.0
GZR	70.22	334	ePd	06	12.00	-0.4	MME	73.57	342	P	06	33.80	1.2		1.1s	189.87nm			6.0mb	
VITF	70.23	347	P	06	12.10	-0.2	MMB	73.63	332	iPc	06	34.00	1.2	ECHE	79.45	351	iPd	07	06.60	1.2
BZS	70.25	335	eP	06	12.50	0.0	CKI	73.68	344	P	06	32.50	-0.5	JVI	79.53	320	eP	07	07.00	1.0
TAB	70.26	314	eP	06	15.00	2.1	BDI	73.71	343	Pd	06	33.20	-0.1	EVIA	80.51	352	iPd	07	12.40	1.2
HNR	70.27	187	P	06	02.00	-10.9X	PGD	73.73	342	Pd	06	35.00	1.5	KOD	80.95	275	eP	07	13.90	-0.2
FLN	70.30	351	iPc	06	11.80	-0.9	DOI	73.74	345	P	06	32.40	-1.0				eS	17	19.00	
	0.7s	86.15nm			6.0mb		ALN	73.74	330	iPc	06	33.88	0.6	EBAN	81.07	353	iPd	07	15.10	1.1
FEL	70.33	345	P	06	12.52	-0.6	PZZ	73.76	345	P	06	31.95	-1.6	PRNI	81.11	319	eP	07	15.00	0.6

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EHOR   81.50 354 iPc   07 17.10   0.9
EVAL   81.80 355 iPc   07 18.60   0.8
ECOG   81.94 352 iPc   07 19.90   1.2
AFC    81.96 352 iPd   07 19.90   1.0
ENIJ   82.15 351 eP    07 19.90   0.2
KNA    82.24 217 eP    07 20.00  -0.2
EPRU   82.34 354 eP    07 22.00   1.3
CTA    82.37 200 iP    07 21.00   0.1
       1.2s   320.31nm          6.3mb
LIJA   82.42 354 eP    07 23.00   1.8
GIBL   82.52 354 eP    07 23.00   1.4
MAL    82.54 353 iPd   07 23.00   1.4
DZM    82.61 181 iPc   07 23.00   0.9
CNIL   82.98 354 eP    07 26.00   2.0
PLAT   83.21 354 eP    07 27.00   1.8
PMO    83.67 137 eP    07 29.40   1.8
       1.3s   185.00nm          6.1mb
TPT    83.75 136 iP    07 29.70   1.7
       1.3s   215.00nm          6.2mb
VAH    83.98 136 iP    07 31.00   1.8
       1.3s   140.00nm          6.0mb
RUV    84.02 136 iP    07 31.20   1.8
       1.3s   250.00nm          6.3mb
OIS    84.09 206 eP    07 29.00  -0.7
       1.7s   429.00nm          6.4mb
              e        10 45.00
WRA    84.72 211 P     07 31.00  -1.8
       0.9s   221.40nm          6.4mb
PPT    85.52 139 iP    07 38.80   1.9
       1.3s   180.00nm          6.1mb
PPN    85.53 139 iP    07 38.60   1.7
       1.3s    50.00nm          5.6mb
PAE    85.60 139 iP    07 39.20   2.0
       1.3s   150.00nm          6.0mb
IFR    85.77 353 iPd   07 38.00  -0.4
TVO    85.82 139 iP    07 40.00   1.6
       1.3s   125.00nm          5.9mb
AVE    86.10 355 iP    07 41.50   1.8
              i        08 00.00
RMO    88.28 196 iPc   07 50.30   0.2
       0.9s   146.00nm          6.3mb
              e        11 06.00
ASPA   88.39 210 iPc   07 50.70  -0.1
       0.9s    76.30nm          6.0mb
     Z 23s     9.10um           6.1MszX
              iPP      11 05.90
TIO    88.46 355 eP    07 56.50   5.1X
BRS    88.68 193 iPc   07 51.00  -1.0
QLP    89.07 200 iPd   07 53.70  -0.2
COO    91.92 193 eP    08 08.00   0.9
WARB   92.72 216 iPd   08 11.30   0.5
       0.7s    36.00nm          5.9mb
CMS    93.61 198 eP    08 16.00   1.2
STK    94.70 202 eP    08 37.20  17.5X
       1.1s    21.80nm
BCAO  110.46 326 ePKPd 13 31.10  -0.7
       1.0s    30.00nm
              i        14 05.20
TIC   112.44 351 PKP   13 35.00  -0.5
KIC   112.70 351 PKP   13 35.30  -0.7
LIC   112.86 351 PKP   13 35.70  -0.6
BAO   128.31  45 ePdiff10 36.50 -13.9X
BUL   130.00 306 iPKPd 14 09.50   0.3
       0.8s    17.91nm
BFT   134.36 301 iPKPc 14 17.00  -0.4
       0.6s    13.33nm
SLR   135.14 303 iPKPc 14 15.50  -3.3X
       1.0s    40.00nm
MAW   148.35 225 ePKP  14 45.00   4.5X
       0.9s   137.00nm
     S.D. = 0.9  on 385 of 403 obs.
```

MAR 08, 1991 11h 58m 12.77± 0.48s
60.682 N ± 9.5km 166.937 E ± 6.6km
DEPTH = 10.0km (geophysicist)
5.7mb (43 obs.)
EASTERN SIBERIA (671)

```
SMY     8 89 151 e(P)  00 23.60  -0.4
ANM    13.26  61 eP    01 24.60   1.2
BRW    17.85  39 e(P)  02 24.40   2.1
SDN    17.93  93 e(P)  02 25.20   1.8
       1.4s   666.80nm          5.6mb
IMA    18.20  56 e(P)  02 27.80   0.9
       1.3s   143.70nm          5.0mb
FBA    20.76  59 ePc   02 55.90   0.1
PMR    20.93  68 e(P)  02 58.20   0.7
TOA    22.12  66 iPc   03 10.40   0.8
INK    25.73  48 eP    03 44.00  -0.3
       1.0s   113.00nm          5.5mb
MBC    28.57  29 eP    04 05.00  -5.2X
       1.0s    29.00nm          5.0mb
MAT    30.27 230 eP    04 27.00   1.1
       1.3s    80.77nm          5.4mb
BJI    37.17 260 eP    05 27.00   1.7
       1.6s   200.00nm          5.6mb
SES    44.56  65 ePc   06 26.40   0.3
       1.3s   248.00nm          5.9mb
FFC    45.28  55 eP    06 31.00  -0.7
       1.5s   207.00nm          5.9mb
LZH    46.30 268 eP    06 41.60   1.4
       1.2s    83.00nm          5.6mb
KEV    46.77 342 iP    06 45.60   2.3
CLC    52.59  82 eP    07 29.00   0.5
SBB    53.38  83 eP    07 35.00   0.6
GSC    53.39  82 eP    07 34.00  -0.5
MWC    53.64  84 eP    07 37.00   0.6
PAS    53.65  84 eP    07 36.00  -0.2
KAF    53.89 338 iP    07 39.80   2.2
       1.0s    33.30nm          5.3mb
TPC    54.72  82 eP    07 44.00  -0.2
PLM    54.93  83 eP    07 45.00  -0.9
NUR    55.68 339 eP    07 53.00   2.3
       1.5s   208.70nm          5.9mb
GLA    56.17  82 eP    07 55.00   0.3
NB2    57.17 346 P     07 59.20  -2.4
       0.8s    57.30nm          5.7mb
SCH    57.23  34 eP    08 00.00  -2.0
HFS    57.75 345 eP    08 03.50  -2.0
       0.7s    24.10nm          5.3mb
GAC    62.53  44 ePd   08 36.50  -1.9
       1.0s    41.00nm          5.6mb
EKA    64.06 354 Pc    08 47.60  -0.8
       0.8s    25.70nm          5.5mb
BRN    65.30 343 eP    08 59.00   2.6
KSP    66.35 340 iP    09 05.10   1.9
              e        11 21.60
CLL    66.41 342 iP    09 05.10   1.6
       1.7s   130.00nm          5.8mb
KRA    66.46 337 iPc   09 06.10   2.3
       1.6s   179.00nm          6.0mb
BRG    66.69 342 iP    09 07.20   1.8
       1.7s    80.00nm          5.6mb
SPC    67.23 337 iP    09 11.50   2.5
MOX    67.26 343 iP    09 11.00   2.0
       1.7s   134.00nm          5.9mb
PRU    67.46 341 P     09 12.30   2.1
       1.5s    80.40nm          5.7mb
              PP       11 43.50
SNF    68.28 348 P     09 15.80   0.5
ABH    68.54 346 eP    09 17.51   0.5
DOU    68.66 348 P     09 17.70   0.0
ZST    68.76 339 iP    09 19.90   1.6
MLR    69.53 332 eP    09 25.00   1.7
              e        15 45.00
              e        22 16.00
              e        23 42.00
              e        34 12.00
CDF    70.02 346 eP    09 24.70  -1.5
       1.5s   104.45nm          5.7mb
FLN    70.44 351 eP    09 26.70  -1.9
       1.6s   143.05nm          5.9mb
HAU    70.53 346 eP    09 27.60  -1.6
       1.5s   114.90nm          5.8mb
LDF    70.58 351 eP    09 27.70  -1.7
       1.6s   136.80nm          5.8mb
BSF    70.65 346 eP    09 28.20  -1.8
       1.5s    99.25nm          5.7mb
GRR    70.84 351 eP    09 29.20  -1.8
LPF    71.21 352 eP    09 31.70  -1.5
       1.1s    58.60nm          5.6mb
LOR    71.53 348 eP    09 33.70  -1.6
       1.5s   204.05nm          6.0mb
SSF    71.77 348 eP    09 35.40  -1.3
       1.5s   101.85nm          5.7mb
LBF    71.80 348 eP    09 35.50  -1.4
       1.5s   117.50nm          5.8mb
AVF    72.06 348 eP    09 36.80  -1.5
       1.5s   182.80nm          5.9mb
SMF    72.15 348 eP    09 37.30  -1.6
       1.6s   174.15nm          5.9mb
BGF    72.34 349 eP    09 38.70  -1.3
       1.6s   149.25nm          5.8mb
MFF    72.56 351 eP    09 40.20  -1.1
TCF    72.67 349 eP    09 40.80  -1.2
       1.5s   122.75nm          5.8mb
MAF    72.70 349 eP    09 41.10  -1.1
       1.5s    91.40nm          5.6mb
LSF    72.77 349 eP    09 41.40  -1.2
       1.6s   177.25nm          5.9mb
LPL    72.94 346 eP    09 43.10  -0.8
LPG    72.95 346 eP    09 43.40  -0.7
       1.7s   191.15nm          5.9mb
RJF    73.71 349 eP    09 47.00  -1.0
       1.6s    99.50nm          5.6mb
FIR    74.02 342 eP    09 52.00   2.2
CAF    74.03 349 eP    09 49.20  -0.8
       1.6s   177.25nm          5.8mb
LFF    74.14 350 eP    09 49.70  -0.8
       1.6s   196.50nm          5.9mb
HYB    74.20 277 eP    09 52.00   0.7
LPO    74.35 349 eP    09 51.00  -0.8
       1.6s   217.65nm          5.9mb
EPF    76.07 350 eP    10 02.00   0.3
       1.4s   106.75nm          5.7mb
GBA    78.02 276 Pd    10 12.80   0.0
       1.3s    32.80nm          5.3mb
WRA    84.55 211 P     10 44.00  -2.9
       1.2s    15.10nm          5.1mb
TIC   112.58 351 PKP   16 34.50 -16.2X
       1.0s    76.50nm
KUK   112.59 346 ePKP  16 57.20   6.5X
KOGH  112.68 346 ePKP  16 57.80   6.8X
SHGH  112.81 346 ePKP  16 58.30   7.2X
KIC   112.84 351 PKPc  16 35.28 -15.9X
       0.8s   107.00nm
LIC   113.00 351 PKPc  16 33.18 -18.3X
       0.9s    57.50nm
LEGH  113.10 346 ePKP  16 56.70   5.0X
     S.D. = 1.5  on 71 of 79 obs.
```

MAR 08, 1991 12h 05m 24.68± 0.18s
24.541 S ± 3.7km 69.901 W ± 5.2km
DEPTH = 55.8km (20 depth phases)
5.5mb (26 obs.)
NORTHERN CHILE (123)
Felt (IV) at Antofagasta and (II) at Comar, Mario Elena, Mejillones and Toconao.

```
ANT     0.96 330 iPd+  05 42.20   0.1
                iS     05 55.00
SLA     4.01  94 iPd   06 14.20 -11.1X
RTRS    5.62 176 iPc   06 48.00   0.3
RTLL    6.88 170 iPd   07 04.20  -1.2
RTCB    6.99 172 ePc   07 05.30  -1.6
CFA     7.19 169 iPd   07 08.20  -1.5
CNCB    7.90  14 iPc   07 20.60   0.6
CCH     7.94  27 P     07 22.50   2.2
JACH    8.13 184 eP    07 18.50  -4.3X
LPB     8.14  12 P     07 23.00  -0.3
     Z 24s    21.71um
                LR     34 28.00
ARE     8.17 349 iPd   07 20.50  -3.1X
                iS     09 32.00
MDZ     8.36 174 eP    07 30.70   4.8X
                i      07 54.70
                i      09 08.90
                i      09 37.90
ZOBO    8.40  12 iPc   07 26.30  -0.6
ROCH    8.46 186 eP    07 21.00  -6.3X
PEL     8.60 184 eP    07 22.50  -6.6X
                iS     09 25.00
LCCH    9.02 189 eP    07 27.50  -7.4X
PCH     9.06 183 eP    07 31.50  -4.1X
TACH    9.12 185 eP    07 30.50  -5.8X
LNV     9.47 188 eP    07 34.40  -6.7X
                iS     09 43.50
SIV    11.87  46 iPd   08 10.00  -3.7X
PPD    17.26  85 eP    09 22.90  -0.5
                e      09 25.20
                e      09 31.20
                i      09 42.70
                e      10 15.20
VAO    21.04  91 eP    10 04.70  -1.5
                i      10 07.10
                e      10 17.90
                e      10 23.70
BMA    23.65  91 eP    10 32.60   0.7
                e      10 37.70
                e      10 40.00
```

08d 12h

			e	10	50.90			BKS	79.17	320	ePd	17	24.90	-0.2				pP	25	14.50		
JFO	24.59	89	eP	10	41.90	0.9			0.9s		55.00nm			5.5mb		PJG	145.48	258	ePKP	24	56.20	-2.6X
			e	10	56.10						epPc	17	41.50	60km		POO	145.82	93	iPKPc	24	59.00	-0.4
VC1	25.15	340	P	10	49.20	2.3		ORV	79.90	322	eP	17	29.60	0.6		KOD	145.88	109	ePKP	25	00.50	0.6
YANA	25.69	340	P	10	53.20	1.3					epP	17	45.20	55km		KUSJ	146.12	312	iPKPd	24	58.10	-1.0
CAYA	25.70	341	P	10	53.00	1.0		LRM	79.98	331	eP	17	30.20	0.6		ASAJ	147.09	315	ePKP	25	01.10	0.5
COTA	26.05	340	eP	10	56.40	1.2					e	17	46.20			GBA	147.35	103	PKPd	25	02.30	0.5
SOB1	31.57	66	eP	11	43.20	-1.1		WDC	81.18	322	eP	17	34.70	-1.0			1.0s		163.00nm			
			e	11	57.40			TIO	81.46	51	iP	17	39.00	1.4		HOOJ	147.36	311	ePKP	25	01.10	0.0
			e	12	06.40						i	18	01.00			MRRJ	148.85	313	PKP	25	06.90	3.4X
			e	14	35.30						i	18	08.50			OFUJ	149.69	306	PKP	25	05.90	1.0
MGP	42.38	4	P	13	12.90	-2.3		MAW	81.69	163	iPd	17	38.60	0.6		HYB	149.75	97	ePKP	25	05.50	-0.1
PORP	42.46	5	P	13	13.00	-2.9X			0.8s		107.00nm			5.9mb			1.0s		170.00nm			
CPD	42.50	6	P	13	13.60	-2.6		FHC	82.14	322	eP	17	41.80	1.1					e	25	27.50	
SJG	42.55	5	iP	13	14.00	-2.7		AVE	82.72	48	iPc	17	45.50	1.6		NOI	150.37	75	iPKP	25	06.50	0.3
LPR	42.77	6	P	13	15.50	-3.0X					i	18	07.50			YAMJ	151.19	305	PKP	25	13.10	5.9X
TPX	44.87	329	(P)	13	51.50	16.0X		SES	83.01	335	ePc	17	44.50	-0.6		KAKJ	151.68	301	PKP	25	13.70	5.8X
OXX	48.95	325	(P)	14	23.50	15.8X			0.9s		49.00nm			5.5mb		NIIJ	152.27	304	PKP	25	15.80	7.0X
ACX	50.48	322	(P)	14	34.50	15.3X					pP	18	01.00	59km		CHJJ	152.64	302	PKP	25	16.20	6.8X
IISM	50.88	326	(P)	14	38.00	15.9X		FFC	83.61	342	iPc	17	47.40	-0.6		MNI	152.97	214	e(PKP)	25	17.80	7.3X
IIT	51.39	325	(P)	14	42.50	16.1X			1.0s		43.00nm			5.4mb		MAT	153.10	303	ePKP	25	16.00	6.0X
III	51.48	323	(P)	14	42.00	15.0X		NEW	83.91	330	P	17	48.50	-1.2			0.8s		31.34nm			
PPM	51.59	325	(P)	14	44.00	15.8X					pP	18	04.50	56km		MTMJ	153.39	303	PKP	25	18.10	7.6X
CRX	52.43	324	(P)	14	50.50	16.2X		IFR	84.42	49	eP	17	40.00	-12.7X		MDJ	154.46	326	ePKP	25	11.50	-0.1
MRX	53.50	323	(P)	14	57.50	15.8X					i	17	53.00			GKN	156.92	76	PKP	25	15.58	0.0
RSCP	61.62	346	iPc	15	36.30	-2.6		PNT	85.81	330	eP	17	59.00	-0.1			0.9s		43.00nm			
			ipP	15	51.60	56km			0.8s		33.00nm			5.6mb		CN2	157.04	331	ePKP	25	14.30	-0.7
BLA	62.22	351	eP	15	41.60	-1.2		EDM	86.13	336	iP	17	59.00	-1.6		DMN	157.35	77	PKP	25	16.24	0.0
CBN	62.81	353	eP	15	46.00	-0.5		MAL	86.70	47	iPd	18	05.50	1.8		KKN	157.50	76	PKP	25	16.24	-0.2
			e	16	07.00			BFT	87.93	117	iPc	18	10.50	0.2			0.9s		37.00nm			
FVM	65.11	342	ePc	15	59.80	-1.9					i	18	32.00			PKI	157.62	77	PKP	25	16.30	-0.4
			ipP	16	14.80	54km		FRB	88.00	1	ePc	18	08.70	-0.5			1.0s		18.00nm			
			isP	16	21.00			TOL	88.69	45	eP	18	14.00	0.8		GUN	158.02	76	PKP	25	17.34	0.2
CLE	66.57	350	iP	16	09.60	-1.4		BCAO	90.40	85	iPc	18	22.40	0.6		IPM	158.32	155	ePKPd	25	17.90	0.5
ALQ	68.56	328	iPc	16	23.80	0.0			0.5s		20.00nm			5.7mb		GTA	162.82	28	PKPc	25	22.60	1.1
			epP	16	38.30	52km					i	18	38.40			HHC	163.69	356	PKP	25	23.40	1.1
ANMO	68.56	328	P	16	23.20	-0.6		WEL	91.27	223	P	18	43.00	17.6X		BJI	163.72	343	ePKP	25	22.50	0.3
			pP	16	38.20	54km		LTZ	91.92	221	P	18	30.00	1.6		TIY	166.72	352	PKPd	25	25.80	0.8
RSNY	68.88	356	ePd	16	24.30	-1.0					e	18	45.80			LZH	167.29	24	ePKP	25	26.00	0.4
	0.7s		41.52nm			5.5mb		THZ	92.14	222	P	18	31.00	1.5		SSE	168.22	306	PKPd	25	43.50	17.4X
			epP	16	40.00	57km					e	18	46.70				1.0s		25.00nm			
			esP	16	46.50			YKA	93.74	341	eP	18	35.40	-0.7					i	26	51.50	
GAC	70.09	356	ePc	16	32.00	-0.6			0.8s		23.90nm			5.7mb		CD2	171.53	40	ePKP	25	28.80	0.8
	1.0s		73.00nm			5.6mb		LFF	94.38	42	eP	18	39.80	0.4		WHN	172.93	329	ePKP	25	30.00	1.6
			pP	16	44.00	40kmX			0.9s		19.65nm			5.5mb		GYA	176.36	58	PKP	25	30.40	0.7
CBM	71.15	1	e(P)	16	37.50	-1.6		MFF	94.70	40	eP	18	41.00	0.2			S.D. = 1.0		on 117 of 154 obs.			
			epP	16	54.00	60km			0.8s		13.45nm			5.4mb		---						
			esP	17	00.70			LPF	94.92	39	eP	18	41.60	-0.2			MAR 08, 1991 12h 11m 03.93± 0.37s					
GLA	71.50	321	eP	16	42.00	0.4			1.0s		20.00nm			5.5mb			60.854 N ± 7.7km 167.046 E ± 6.5km					
			e	16	57.00			GRR	95.21	39	eP	18	42.80	-0.3			DEPTH = 10.0km (geophysicist)					
GLD	71.95	332	ePc	16	44.00	-0.3			0.8s		13.45nm			5.4mb			5.1mb (26 obs.)					
	1.0s		100.00nm			5.7mb		LSF	95.52	41	eP	18	44.70	0.1		EASTERN SIBERIA						(671)
			ipP	17	00.00	58km		FLN	95.61	38	eP	18	44.80	-0.2								
BAR	72.30	320	eP	16	47.00	0.7			0.9s		14.75nm			5.5mb		KLY	5.58	218	eP	12	26.40	-2.5
			e	17	02.00			LDF	95.73	39	eP	18	45.20	-0.3		PET	9.09	214	eP	13	20.00	2.0
PV09	72.69	329	e(P)	16	49.00	0.1			0.8s		10.75nm			5.4mb		ILT	9.36	35	eP	13	20.00	-1.7
			epP	17	04.70	56km		TCF	95.95	42	eP	18	46.70	0.1					e	16	05.00	
PLM	72.89	320	eP	16	50.10	0.1			0.8s		6.70nm			5.2mb		ANM	13.13	62	eP	14	12.20	-0.6
			epP	17	05.70	56km		MAF	96.13	42	eP	18	47.60	0.2		TTA	17.37	67	eP	15	08.40	0.7
			esP	17	13.00			BGF	96.46	42	eP	18	49.00	0.1		BRW	17.68	39	eP	15	14.50	3.2X
TPC	72.96	321	eP	16	50.00	-0.2			1.0s		18.00nm			5.6mb		IMA	18.06	56	eP	15	18.50	2.2
			e	17	06.00			AVF	96.88	42	eP	18	50.80	0.1			1.1s		39.30nm			4.5mb
PEC	73.45	320	ePc	16	52.90	-0.1		SSF	97.10	41	eP	18	51.60	-0.1		FBA	20.62	59	e(P)	15	44.80	-0.7
			ipP	17	08.60	56km			0.8s		9.40nm			5.4mb		TOA	22.00	66	eP	16	00.00	0.4
			esP	17	14.70			SMF	97.11	42	eP	18	52.10	0.3		INK	25.57	48	eP	16	30.50	-3.6X
			e	17	24.50				1.0s		22.00nm			5.6mb		MBC	28.39	29	eP	17	03.00	3.3X
RVR	73.64	320	eP	16	54.00	-0.1		LBF	97.35	42	eP	18	52.90	0.0			1.0s		8.00nm			4.5mb
			e	17	10.00				0.8s		6.70nm			5.2mb		CN2	29.95	254	eP	17	14.70	0.7
PAS	74.22	320	eP	16	58.00	0.5		LOR	97.41	41	eP	18	53.00	-0.2		MAT	30.43	230	eP	17	18.00	-0.4
			e	17	13.00				0.7s		4.40nm			5.1mb			1.1s		46.84nm			5.3mb
RSSD	75.15	335	ePc	17	02.30	-0.6		EKA	97.67	32	P	18	54.00	-0.1		YKA	35.10	52	eP	17	53.70	-5.0X
TNP	76.49	323	P	17	10.50	-0.1			0.9s		9.40nm			5.3mb			0.6s		3.50nm			4.4mb
			pP	17	26.80	59km		LPL	98.38	44	eP	18	59.00	1.2		BJI	37.26	260	eP	18	18.00	0.9
PRI	77.07	320	ePc	17	14.50	0.8			1.0s		14.00nm			5.4mb			1.2s		38.00nm			5.0mb
			epP	17	30.00	55km		LPG	98.38	44	eP	18	59.10	1.2		SES	44.43	65	eP	19	17.00	0.8
FRI	77.11	321	e(P)	17	13.00	-0.7			1.0s		14.00nm			5.4mb		LZH	46.36	268	eP	19	31.00	-0.9
			epP	17	27.90	53km		NUR	113.25	32	ePKP	23	58.00	1.6			2.0s		100.00nm			5.5mb
LLA	77.56	320	ePc	17	16.80	0.5		KAF	114.26	31	ePKP	23	58.00	-1					pP	20	42.00	349kmX
			epP	17	21.80	16kmX		KEV	115.17	22	ePdiff	20	16.00	4.1X		CD2	50.59	264	eP	20	04.60	0.0
PRS	77.62	320	eP	17	17.50	0.9		OIS	126.77	215	iPKPc	24	23.70	-0.6		CLC	52.51	82	eP	20	19.00	-0.1
			epP	17	32.70	54km					e	24	40.00			GYA	52.89	258	P	20	23.00	0.9
CMB	78.22	322	eP	17	20.30	0.4		ASPA	126.81	208	iPKP	24	39.90	15.6X		GSC	53.31	82	eP	20	25.00	-0.1
			epP	17	35.70	55km					ePP	26	31.60			MWC	53.57	84	eP	20	13.00	-14.1X
MHC	78.46	320	eP	17	22.20	0.8		WRA	129.88	210	PKP	24	29.00	-1.2		RVR	54.09	83	eP	20	42.00	11.4X
			epP	17	37.50	54km			0.7s		2.53nm					TPC	54.64	82	eP	20	39.00	4.2X
SCH	79.08	2	ePc	17	23.70	-0.5		GUA	145.41	258	ePKP	24	55.90	-2.8X		PLM	54.86	84	eP	20	38.00	1.4
	0.8s		51.00nm			5.5mb			0.8s		268.66nm					NUR	55.54	339	iP	20	43.20	2.3

0.9s 22.00nm 5.2mb
KMI 55.90 261 Pc 20 44.00 -0.3
NB2 57.02 346 P 20 49.00 -2.6
0.7s 16.30nm 5.2mb
SCH 57.05 34 eP 20 51.00 -0.9
HFS 57.59 345 eP 20 54.10 -1.5
0.8s 12.60nm 5.0mb
GUN 61.80 277 P 21 24.50 -0.9
KKN 62.19 278 P 21 29.82 1.9
PKI 62.31 277 P 21 28.02 -0.8
GKN 62.33 278 P 21 28.72 0.0
DMN 62.43 278 P 21 29.16 -0.3
EKA 63.90 354 Pd 21 38.50 0.0
0.8s 15.10nm 5.2mb
KSP 66.20 340 eP 21 56.00 2.6
CLL 66.26 343 iPc 21 56.70 3.0
KRA 66.32 338 eP 21 56.90 2.8
GRF 68.10 343 eP 22 05.40 0.0
e 22 09.00
KHC 68.30 342 eP 22 09.40 2.7
ZST 68.62 339 eP 22 09.00 0.4
e 22 12.40
QUE 68.78 294 eP 22 10.30 0.2
CDF 69.87 346 eP 22 15.60 -0.8
FLN 70.28 351 eP 22 17.70 -1.0
HAU 70.38 346 eP 22 18.60 -0.8
0.9s 13.10nm 5.1mb
LDF 70.42 351 eP 22 18.80 -0.8
0.8s 16.10nm 5.2mb
BSF 70.50 346 eP 22 19.40 -0.9
0.8s 8.05nm 4.9mb
GRR 70.67 351 eP 22 20.40 -0.8
0.7s 17.65nm 5.3mb
LPF 71.04 352 eP 22 22.90 -0.5
0.8s 16.10nm 5.2mb
LOR 71.38 348 eP 22 24.60 -0.9
1.0s 27.00nm 5.3mb
SSF 71.62 348 eP 22 26.30 -0.6
1.3s 27.10nm 5.2mb
LBF 71.64 348 eP 22 26.50 -0.6
1.0s 12.00nm 5.0mb
AVF 71.90 348 eP 22 27.90 -0.7
0.9s 20.45nm 5.2mb
SMF 71.99 348 eP 22 28.50 -0.7
TCF 72.51 349 eP 22 31.70 -0.5
0.9s 16.40nm 5.1mb
MAF 72.54 349 eP 22 32.00 -0.4
LSF 72.61 350 eP 22 32.30 -0.5
1.0s 20.00nm 5.2mb
LPL 72.78 346 eP 22 34.20 0.1
0.9s 8.20nm 4.8mb
LPG 72.80 346 eP 22 34.60 0.3
1.1s 23.20nm 5.2mb
RJF 73.55 349 eP 22 37.80 -0.5
CAF 73.87 349 eP 22 40.20 0.0
LFF 73.98 350 eP 22 40.60 -0.1
0.9s 22.95nm 5.2mb
GBA 78.05 276 P 23 06.00 1.9
e 25 02.00
WB2 84.73 211 iPd 23 38.60 -0.4
0.8s 10.30nm 5.1mb
i 24 29.20
i 24 45.80
WRA 84.73 211 P 23 37.00 -2.0
1.0s 10.40nm 5.0mb
ASPA 88.41 210 ePKP 23 56.60 -0.3
i 24 22.90
i 24 39.90
ePP 26 31.60
S.D. = 1.3 on 60 of 67 obs.

? MAR 08, 1991 12h 29m 09.62± 9.64s
61.528 N ±176.km 166.365 E ±14.2km
DEPTH = 10.0km (geophysicist)
4.9mb (9 obs.) 5.8Msz (1 obs.)
EASTERN SIBERIA (671)

BRW 17.37 40 eP 33 28.80 15.6X
TTA 17.43 69 eP 33 13.70 -0.4X
IMA 17.97 58 eP 33 20.80 -0.1
1.3s 15.80nm 4.0mb
INK 25.37 49 eP 34 38.00 0.2
MAT 30.62 228 (P) 35 13.00 -12.7X
YKA 34.95 53 eP 35 52.20 -10.9X
0.9s 2.60nm
SES 44.45 65 eP 37 19.00 -3.0X
LZH 46.07 266 iPd 37 35.00 -0.2X
1.0s 23.00nm 5.1mb
Z 20s 11.37um 5.8Msz
E 15s 6.87um
i 38 03.50
NB2 56.28 346 P 38 45.50 -6.5X
0.7s 7.00nm 4.8mb
HFS 56.85 344 eP 38 56.10 0.0
1.0s 11.40nm 4.9mb
CLL 65.52 342 eP 39 57.00 2.3X
1.7s 29.00nm 5.2mb
KHC 67.55 341 eP 40 11.00 3.3X
LOR 70.64 347 eP 40 26.70 0.0
1.0s 11.00nm 4.9mb
AVF 71.17 348 eP 40 29.90 0.0
0.9s 13.90nm 5.1mb
SMF 71.26 347 eP 40 30.40 -0.1
1.0s 11.00nm 4.9mb
TCF 71.78 349 eP 40 33.60 0.0
1.0s 12.00nm 4.9mb
WB2 85.14 210 iPd 41 02.60 -44.1X
0.7s 2.10nm
e 41 36.10
i 41 40.80
S.D. = 0.1 on 7 of 17 obs.

? MAR 08, 1991 13h 02m 28.23± 4.85s
36.097 N ±33.7km 27.499 E ±25.2km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)

YER 1.21 31 iPn 02 50.50 -0.3
CIN 1.57 17 eP 02 56.00 -0.2
ELL 2.05 71 ePn 03 03.00 -0.3
IZM 2.30 355 ePn 03 06.80 -0.1
KHL 2.75 35 ePn 03 14.00 0.8
S.D. = 0.6 on 5 of 5 obs.

MAR 08, 1991 13h 16m 46.66± 0.57s
61.127 N ±13.8km 166.607 E ± 7.9km
DEPTH = 10.0km (geophysicist)
4.9mb (13 obs.) 5.0Msz (1 obs.)
EASTERN SIBERIA (671)

ILT 9.26 37 eP 19 02.00 -1.1
i 20 26.00
e 21 51.00
i 22 15.00
BRW 17.60 40 eP 20 55.70 2.6
IMA 18.09 57 eP 21 01.70 2.3
FBA 20.67 60 eP 21 29.00 0.3
INK 25.55 48 eP 22 15.00 -1.6
BJI 37.10 259 eP 23 59.00 0.5
1.4s 26.00nm 4.8mb
TIY 40.72 260 eP 24 30.30 1.5
PNT 41.42 72 eP 24 35.00 0.6
0.8s 6.00nm 4.4mb
SES 44.51 65 eP 24 58.00 -1.6
FFC 45.15 55 eP 25 03.00 -1.6
1.0s 18.00nm 5.0mb
GTA 45.49 273 P 25 08.40 0.7
0.8s 10.00nm 4.8mb
LZH 46.16 267 eP 25 13.60 0.6
1.5s 34.00nm 5.1mb
Z 20s 1.94um 5.0Msz
N 15s 1.33um
pP 25 24.00 35kmX
WMQ 47.87 287 eP 25 26.00 -0.3
CD2 50.41 263 P 25 45.60 -0.3
GYA 52.74 257 P 26 03.80 0.1
KMI 55.74 260 eP 26 25.00 -0.8
NB2 56.70 346 P 26 31.80 -0.3
0.5s 4.60nm 4.8mb
HFS 57.27 344 eP 26 35.00 -1.1
1.0s 13.30nm 4.9mb
GUN 61.55 277 P 27 06.00 -0.5
0.6s 14.00nm 5.3mb
KKN 61.94 277 P 27 09.00 0.0
PKI 62.07 277 P 27 09.90 0.0
GKN 62.08 278 P 27 09.60 -0.2
DMN 62.18 277 P 27 11.40 0.8
CHG 62.94 260 eP 27 15.00 -0.3
CHTO 62.94 260 iP 27 15.10 -0.2
1.0s 8.75nm 4.9mb
CLL 65.94 342 eP 27 37.00 2.6X
ZST 68.29 339 e(P) 27 49.20 -0.1
LOR 71.06 348 eP 28 06.20 -0.1
1.0s 15.00nm 5.1mb
SSF 71.30 348 eP 28 07.80 0.1
1.1s 13.45nm 5.0mb
AVF 71.59 348 eP 28 09.40 0.0
0.7s 7.15nm 4.9mb
TCF 72.20 349 eP 28 12.50 -0.6
LPL 72.47 345 eP 28 15.60 0.6
LPG 72.48 345 eP 28 15.80 0.6
HYB 73.99 277 eP 28 23.50 -0.5
GBA 77.81 276 Pc 28 45.30 -0.2
1.1s 5.00nm 4.5mb
S.D. = 1.0 on 34 of 35 obs.

MAR 08, 1991 13h 41m 50.02± 0.54s
61.125 N ±14.2km 166.596 E ± 7.5km
DEPTH = 10.0km (geophysicist)
4.9mb (6 obs.)
EASTERN SIBERIA (671)

ILT 9.27 37 iP 44 06.50 0.0
i 44 12.00
e 46 51.00
IMA 18.10 57 eP 46 03.80 1.0
FBA 20.67 60 eP 46 31.40 -0.8
INK 25.56 48 eP 47 20.00 0.0
SES 44.52 65 eP 50 03.00 0.0
FFC 45.16 55 ePc 50 07.90 -0.1
1.2s 23.00nm 5.0mb
GTA 45.49 273 Pc 50 11.60 0.6
0.8s 10.00nm 4.8mb
LZH 46.15 267 Pc 50 17.00 0.7
1.5s 28.00nm 5.0mb
Z 30s 1.66um 4.8MszX
GYA 52.74 257 P 51 07.00 0.0
KMI 55.73 260 Pc 51 28.50 -0.6
NB2 56.70 346 P 51 35.70 0.2
0.8s 5.40nm 4.6mb
HFS 57.27 344 eP 51 38.70 -0.7
1.1s 14.30nm 4.9mb
GUN 61.55 277 P 52 09.40 -0.4
KKN 61.94 277 P 52 12.00 -0.3
GKN 62.07 278 P 52 13.40 0.3
CHTO 62.93 260 iP 52 18.80 0.2
1.0s 5.25nm 4.7mb
CLL 65.94 342 e(P) 52 38.00 0.2
HYB 73.98 277 eP 53 27.00 -0.3
S.D. = 0.5 on 18 of 18 obs.

• MAR 08, 1991 13h 47m 12.02± 0.79s
61.090 N ±21.2km 166.544 E ±11.9km
DEPTH = 10.0km (geophysicist)
4.6mb (2 obs.)
EASTERN SIBERIA (671)

ILT 9.31 37 eP 49 30.00 0.9
e 52 13.00
ANM 13.24 63 eP 50 20.80 -1.5
IMA 18.14 57 eP 51 26.00 0.7
TOA 22.13 67 eP 52 10.80 1.8
INK 25.60 48 eP 52 42.00 -0.4
MAT 30.39 229 (P) 53 27.00 0.8
SES 44.55 65 eP 55 25.00 -0.3
FFC 45.20 55 eP 55 29.00 -1.4
1.0s 10.00nm 4.7mb
NB2 56.73 346 P 56 58.20 0.5
0.7s 4.10nm 4.6mb
GUN 61.53 277 P 57 32.40 0.7
KKN 61.92 277 P 57 33.20 -0.9
GKN 62.05 278 P 57 34.00 -0.9
S.D. = 1.2 on 12 of 12 obs.

? MAR 08, 1991 13h 50m 08.63± 1.23s
61.018 N ±35.5km 166.924 E ±13.7km
DEPTH = 10.0km (geophysicist)
4.6mb (2 obs.)
EASTERN SIBERIA (671)

INK 25.51 48 eP 55 38.00 -0.1
SES 44.42 65 eP 58 21.00 0.2
FFC 45.09 55 eP 58 26.00 -0.1
0.9s 10.00nm 4.8mb
NB2 56.85 346 P 59 55.20 0.1
0.7s 2.60nm 4.4mb
GUN 61.72 277 P 00 30.00 0.4
KKN 62.11 277 P 00 31.40 -0.6
PKI 62.23 277 P 00 36.80 3.8X
DMN 62.35 277 P 00 33.80 0.2
S.D. = 0.4 on 7 of 8 obs.

• MAR 08, 1991 13h 53m 39.87± 0.58s
60.832 N ±14.7km 166.903 E ± 9.7km
DEPTH = 10.0km (geophysicist)
4.7mb (8 obs.)
EASTERN SIBERIA (671)

BRW	17.74	39	e(P)	57 50.60	2.6
IMA	18.13	56	eP	57 54.10	1.0
FBA	20.70	59	eP	58 21.80	-0.4
TOA	22.07	66	eP	58 36.20	-0.1
INK	25.64	48	eP	59 09.00	-1.6
MAT	30.36	230	(P)	59 54.00	0.3
SES	44.51	65	eP	01 52.00	-0.8
GTA	45.65	274	P	02 02.80	0.7
	1.0s	10.00nm		4.7mb	
LZH	46.29	267	eP	02 08.00	0.8
	1.5s	28.00nm		5.1mb	
			sP	02 23.50	
WMQ	48.09	287	P	02 23.00	1.7
KMI	55.83	260	Pc	03 19.50	-0.2
NB2	57.02	346	P	03 26.70	-0.9
	0.9s	8.60nm		4.8mb	
HFS	57.60	345	eP	03 29.90	-1.7
	0.8s	4.40nm		4.5mb	
CHTO	63.03	260	eP	04 09.20	0.1
	0.9s	4.90nm		4.7mb	
CLL	66.26	342	eP	04 29.00	-0.7
KRA	66.31	337	eP	04 31.40	1.4
HYB	74.17	277	eP	05 17.00	-1.2
GBA	77.98	276	Pc	05 38.10	-1.6
	0.9s	3.40nm		4.4mb	
WB2	84.67	211	eP	06 15.00	0.4
	0.8s	3.20nm		4.6mb	
WRA	84.67	211	eP	06 15.00	0.4
	0.8s	3.20nm		4.6mb	
ASPA	88.35	210	eP	06 48.90	16.3X
	0.6s	4.00nm			

S.D. = 1.2 on 20 of 21 obs.

• MAR 08, 1991 14h 05m 31.49± 0.48s
60.964 N ±12.1km 166.824 E ± 8.4km
DEPTH = 10.0km (geophysicist)
4.7mb (8 obs.)
EASTERN SIBERIA (671)

ILT	9.33	36	eP	07 49.00	0.1
	2.0s	850.00nm		6.8mb X	
INK	25.58	48	eP	11 02.00	0.3
MAT	30.41	230	eP	11 46.00	0.2
YKA	35.11	52	eP	12 25.90	-0.5
	0.7s	1.20nm		3.9mb	
SES	44.48	65	eP	13 45.00	0.8
FFC	45.16	55	eP	13 49.00	-0.5
	1.2s	18.00nm		4.9mb	
GTA	45.61	274	eP	13 54.40	1.0
	0.8s	10.00nm		4.8mb	
	Z 18s	5.30um		5.5Msz	
	E 13s	1.20um			
LZH	46.26	267	eP	13 59.00	0.4
	2.0s	25.00nm		4.9mb	
NB2	56.89	346	P	15 18.50	0.2
	0.8s	7.00nm		4.7mb	
HFS	57.46	344	eP	15 22.00	-0.2
	0.9s	9.00nm		4.8mb	
GUN	61.68	277	P	15 52.00	-0.2
KKN	62.07	277	P	15 54.20	-0.4
GKN	62.20	278	P	15 54.20	-1.2
CHTO	63.01	260	eP	16 01.00	0.4
	0.9s	2.34nm		4.4mb	
ZST	68.48	339	eP	16 40.60	5.3X
HYB	74.11	277	eP	17 09.50	0.0
WB2	84.77	210	eP	18 06.30	-0.4
	0.9s	3.40nm		4.6mb	

S.D. = 0.6 on 16 of 17 obs.

• R 08, 1991 14h 14m 29.92± 0.53s
905 N ±10.5km 166.859 E ± 9.5km
.EPTH = 10.0km (geophysicist)
4.7mb (12 obs.)
EASTERN SIBERIA (671)

KLY	5.57	217	iP	15 55.60	0.9
PET	9.08	213	eP	16 52.00	8.1X
	Z 14s	3.50um			
ILT	9.37	35	eP	16 46.00	-1.9
	0.8s	42.00nm		5.9mb X	
			i	17 06.00	
			i	17 37.00	
			e	19 30.00	
			e	19 44.00	
INK	25.61	48	eP	20 01.00	0.6
MBC	28.39	29	eP	20 27.50	1.8
	1.0s	5.00nm		4.3mb	
MAT	30.39	230	iPc	20 43.50	-0.5
	1.0s	20.00nm		4.9mb	
YKA	35.14	52	eP	21 24.10	-0.9
	0.8s	2.20nm		4.1mb	
BJI	37.18	259	eP	21 43.00	0.6
	1.0s	11.00nm		4.6mb	
TIY	40.81	261	eP	22 14.50	1.7
SES	44.49	65	eP	22 43.00	0.3
FFC	45.18	55	eP	22 49.00	0.9
	0.5s	4.00nm		4.6mb	
GTA	45.63	274	eP	22 53.20	1.2
	1.0s	10.00nm		4.7mb	
LZH	46.27	267	eP	22 56.00	-1.1
	1.0s	18.00nm		5.0mb	
KEV	46.54	342	eP	23 06.00	7.4X
WMQ	48.05	287	P	23 11.00	0.0
SOD	48.77	341	eP	23 16.00	-0.1
KAF	53.67	338	eP	23 52.00	-1.2
KMI	55.82	260	Pd	24 08.70	-1.0
NB2	56.95	346	P	24 16.00	-1.1
	0.6s	7.70nm		4.9mb	
UPP	57.23	342	iP	24 18.40	-0.6
HFS	57.52	344	eP	24 21.50	0.4
	0.9s	11.00nm		4.9mb	
GUN	61.70	277	P	24 50.60	-0.1
KKN	62.09	277	P	24 53.00	-0.2
PKI	62.21	277	P	24 53.60	-0.6
GKN	62.23	278	P	24 54.40	0.4
DMN	62.33	277	P	24 54.00	-0.8
CHG	63.02	260	eP	24 58.80	-0.3
CHTO	63.02	260	eP	24 58.70	-0.4
	0.9s	4.40nm		4.7mb	
CLL	66.19	342	eP	25 21.00	1.8
ZST	68.54	339	eP	25 36.30	2.2
HYB	74.14	277	eP	26 10.00	1.9
GBA	77.95	276	Pd	26 27.10	-2.5
WB2	84.72	211	eP	27 04.10	-0.8
	0.8s	7.40nm		5.0mb	
ASPA	88.41	210	eP	27 22.50	-0.4
	1.6s	5.60nm		4.6mb	

S.D. = 1.2 on 32 of 34 obs.

MAR 08, 1991 14h 50m 11.90± 0.63s
39.177 N ± 5.3km 28.144 E ± 6.9km
DEPTH = 14.1 ± 4.4 km
TURKEY (366)

DST	0.57	41	iPg	50 23.40	0.3
IZM	1.04	222	iPg	50 30.80	-0.4
			eSg	50 45.00	
KCT	1.08	9	ePg	50 33.30	1.4
EDC	1.19	350	iPn	50 34.50	0.8
BNT	1.19	352	iPn	50 35.20	1.5
KHL	1 38	128	ePn	50 37.30	0.6
ALT	1.53	94	ePn	50 38.00	-0.9
IZI	1.55	41	ePn	50 40.30	1.2
EZN	1.55	295	ePn	50 39.00	0.0
CIN	1.58	182	eP	50 41.00	1.6
YLV	1.68	34	iPn	50 41.50	0.5
CTT	1.98	6	iPn	50 46.00	0.7
GPA	2.01	56	ePn	50 48.00	2.3
ISK	2.01	20	ePn	50 45.00	-0.7
HRT	2.02	35	ePn	50 44.00	-1.9
DMK	2.66	354	iPn	50 54.90	-0.1

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

? MAR 08, 1991 15h 44m 07.07± 0.98s
60.884 N ±22.2km 167.001 E ±19.0km
DEPTH = 10.0km (geophysicist)
4.3mb (4 obs.)
EASTERN SIBERIA (67.)

ILT	9.35	35	eP	46 25.00	0.3
			e	49 07.00	
INK	25.57	48	eP	49 38.00	0.8
YKA	35.09	52	eP	51 01.00	-0.8
	0.8s	0.70nm		3.6mb	
LZH	46.34	267	e(P)	52 35.40	0.6
	1.5s	20.00nm		4.9mb	
NB2	56.99	346	P	53 53.80	-0.7
	0.6s	2.10nm		4.3mb	
WB2	84.74	211	eP	56 42.00	-0.2
	0.8s	1.60nm		4.3mb	
ASPA	88.42	210	eP	57 13.90	13.8X
	0.7s	3.60nm			

S.D. = 0.9 on 6 of 7 obs.

MAR 08, 1991 16h 05m 00.64± 0.65s
15.520 N ± 4.0km 119.178 E ± 5.0km
DEPTH = 42.0 ± 6.9 km
5.1mb (19 obs.)
LUZON, PHILIPPINE ISLANDS (249)

BAG	1.61	57	iPc+	05 26.90	-0.4
OCP	2.03	115	eP	05 20.50	-12.6X
PGP	2.64	139	ePd	05 41.80	0.1
			iS	06 16.00	
PIP	3.11	26	iPd	05 46.50	-1.9
			iS	06 15.00	
CVP	3.34	49	eP	05 53.00	1.4
			eS	06 22.00	
PPR	5.73	184	iPc	06 23.00	-2.5
			iS	07 06.00	
MAP	6.97	137	eP	06 44.00	1.1
CGP	8.85	142	eP	07 09.00	-0.1
GZH	9.33	325	eP	07 12.50	-3.0X
	Z 11s	2.10um			
	N 11s	2.00um			
QIZ	9.58	293	eP	07 12.70	-6.3X
	N 13s	1.60um			
	E 17s	1.20um			
MNI	15.06	158	eP	08 33.70	1.3
SSE	15.61	6	eP	08 42.50	3.1X
	Z 12s	0.50um			
GYA	15.95	315	P	08 43.80	-0.1
	N 12s	1.50um			
	E 12s	1.30um			
KMI	18.12	304	Pd	09 12.50	1.3
CHG	19.61	283	eP	09 29.50	0.9
CHTO	19.61	283	eP	09 29.00	0.4
	1.1s	10.01nm		4.0mb X	
KHT	19.89	271	eP	09 32.80	1.4
MKS	20.61	179	ePd	09 40.50	1.5
XAN	20.63	335	Pc	09 33.80	-5.4X
	N 13s	1.00um			
	E 13s	1.50um			
			S	13 28.00	
CD2	20.83	320	P	09 44.00	2.8X
	0.8s	100.00nm		5.2mb	
	Z 14s	1.40um		4.5MszX	
	E 13s	1.70um			
IPM	20.90	241	eP	09 45.10	3.1X
TIY	22.90	346	Pc	10 02.70	0.9
	Z 12s	0.70um		4.3MszX	
BJI	24.57	354	eP	10 18.00	0.1
	1.0s	53.00nm		5.0mb	
	Z 16s	0.58um		4.2MszX	
LZH	24.63	329	iPd	10 20.00	1.2
	3.5s	380.00nm		5.4mb X	
	Z 14s	0.68um		4.3MszX	
	E 10s	0.69um			
			sP	10 32.50	
KUPT	25.88	170	eP	10 26.00	-4.4X
HHC	26.09	347	P	10 32.00	-0.4
	Z 14s	0.60um		4.3MszX	
	N 10s	0.30um			
BTO	26.23	344	eP	10 33.00	-0.6
	N 12s	0.40um			
	E 12s	0.90um			
SNY	26.49	7	eP	10 36.80	1.0
	1.4s	40.00nm		4.8mb	
GTA	29.22	328	Pd	11 00.60	-0.2
	1.4s	30.00nm		4.8mb	
	Z 16s	0.90um		4.5MszX	
	E 10s	0.70um			
			PcP	14 07.60	
LSA	29.37	304	Pc	11 03.00	0.3
GUN	33.19	297	Pd	11 35.84	-0.3
	0.5s	46.00nm		5.6mb	
PKI	33.51	297	Pd	11 38.00	-0.9
	0.6s	21.00nm		5.2mb	
KKN	33.67	297	Pd	11 39.46	-0.7
	0.7s	26.00nm		5.2mb	
DMN	33.78	297	Pd	11 40.52	-0.6
	0.7s	27.00nm		5.3mb	
GKN	34.28	297	Pd	11 44.34	-1.0
	0.7s	30.00nm		5.4mb	

```
WMO     38.87 323 P      12 24.00    0.2
      Z  16s      0.60um            4.5MszX
HYB     38.96 279 eP     12 25.00    0.3
GBA     40.40 273 P      12 37.00    0.3
QIS     41.09 150 iPd    12 41.20   -1.0
ASPA    41.52 159 iPc    12 44.90   -0.8
        0.4s     17.80nm          5.1mb
                  eS     18 56.40
WARB    42.08 170 eP     12 50.30    0.0
        0.5s     24.00nm          5.2mb
STK     51.80 156 eP     14 22.60   16.0X
        0.9s      4.20nm
ADE     53.53 160 eP     14 02.00  -17.4X
ILT     65.37  22 eP     15 40.00   -0.6
        1.3s     35.00nm          5.3mb
                  i      15 50.00
BRW     73.51  20 eP     16 31.60    1.1
IMA     74.79  25 eP     16 39.00    0.8
        1.1s     11.40nm          4.7mb
KEV     76.32 339 eP     16 46.00   -0.6
SOD     76.79 337 iP     16 49.00   -0.3
PMR     77.30  29 eP     16 51.90   -0.2
        1.1s     20.70nm          5.1mb
KAF     77.76 331 eP     16 54.00   -0.7
TOA     78.59  29 eP     17 00.60    1.3
NUR     78.85 330 eP     17 00.00   -0.6
VRI     80.71 315 ePd    17 12.00    1.0
CVO     81.10 315 ePc    17 31.50   18.4X
MLR     81.33 315 ePc    17 12.50   -1.9
INK     81.94  21 ePd    17 17.10    0.1
MBC     82.08  12 ePd    17 17.50   -0.1
        0.5s      4.00nm          4.7mb
KRA     84.06 320 eP     17 24.50   -3.7X
                  e      17 28.50
HFS     84.18 331 eP     17 27.50   -1.1
        0.5s      1.30nm          4.3mb
VAY     84.76 311 eP     17 31.40   -0.5
NB2     84.98 332 P      17 31.60   -1.1
        1.3s     13.40nm          4.9mb
KSP     86.02 322 eP     17 38.20    0.2
PRU     87.37 321 P      17 46.00    1.4
BRG     87.41 322 e(P)   17 45.70    1.0
        1.2s     15.00nm          5.1mb
CLL     87.80 323 eP     17 46.00   -0.6
YKA     91.66  22 eP     18 04.50    0.0
        0.9s      3.10nm          4.7mb
ZOBO   172.93  97 PKP    25 07.00   -0.5
     S.D. = 1.0  on  55 of  67 obs.
-------------------------------------------
   MAR  08, 1991  16h 28m 16.17± 0.71s
   40.545 N ± 6.0km   29.343 E ± 6.5km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)

YLV      0.03  46 iPg    28 18.70    0.4
IZI      0.23 154 iPg    28 20.90   -0.3
GBZT     0.26  18 ePg    28 21.60    0.0
                iSg      28 25.70
HRT      0.37  42 ePg    28 23.70   -0.1
KCT      0.81 249 ePg    28 32.30    0.4
                eSg      28 44.20
CTT      0.92 311 iPg    28 33.20   -0.5
                eSg      28 44.20
     S.D. = 0.5  on   6 of   6 obs.
-------------------------------------------
&  MAR  08, 1991  16h 40m 01.75s
   62.379 N          151.251 W
   DEPTH =  81.6km
 CENTRAL ALASKA                      (  1)
     <AEIC>.

SKT      0.42 198 iP     40 14.60   -0.6
                eS      40 24.76
CUT      0.46  86 iP     40 14.98   -0.5
SUA      0.95 165 eP     40 20.03   -0.7
                eS      40 35.13
PWA      0.98 138 iP     40 20.36   -0.5
NCG      1.07 204 eP     40 20.99   -1.1
TRF      1.16  22 iP     40 22.25   -1.1
                eS      40 38.13
CRP      1.20 201 eP     40 22.92   -0.8
                eS      40 39.86
BGL      1.24 206 eP     40 23.72   -0.6
GHO      1.25 118 eP     40 24.01   -0.4
PLRM     1.27 127 eP     40 23.43   -1.1
CKL      1.29 204 eP     40 24.04   -0.9
                eS      40 42.25

RND      1.51  46 eP     40 26.49   -1.2
                eS      40 45.54
KNK      1.64 125 eP     40 28.39   -1.0
NKA      1.64 180 eP     40 30.84    1.5
MCK      1.72  37 eP     40 29.58   -0.9
RDT      1.89 198 eP     40 31.81   -1.1
SLKM     1.94 165 eP     40 32.44   -1.0
BWN      1.97  23 eP     40 32.60   -1.3
NCT      1.99 205 eP     40 33.53   -0.7
RDN      2.01 202 eP     40 33.32   -1.2
REF      2.02 201 eP     40 33.81   -0.9
RS2      2.05 201 eP     40 34.60   -0.6
RSO      2.05 201 eP     40 34.60   -0.6
NNL      2.35 181 eP     40 40.09    1.1
TOA      2.39  94 eP     40 39.35   -0.3
NEA      2.41  23 eP     40 37.56   -2.3
GLI      2.49 125 eP     40 38.86   -2.1
WRH      2.54  33 eP     40 39.43   -2.1
VZW      2.60 119 eP     40 40.26   -2.2
BRLK     2.63 176 eP     40 42.67   -0.2
KNIM     2.65 139 eP     40 39.65   -3.5
SDG      2.66  84 eP     40 43.09   -0.2
KLU      2.67 107 eP     40 41.20   -2.3
CCB      2.75  33 eP     40 41.59   -2.9
HDA      2.81  42 eP     40 43.16   -2.2
RDS      2.82  28 eP     40 43.30   -2.2
CNPM     2.86 180 eP     40 45.30   -0.8
PDB      2.97 210 eP     40 46.25   -1.3
        38 obs. associated
-------------------------------------------
   MAR  08, 1991  17h 40m 46.59± 1.30s
   35.662 N ±10.1km     0.417 E ± 8.9km
   DEPTH =  10.0km  (geophysicist)
   4.0mb (  1 obs.)
 ALGERIA                             (396)
     mbLg 3.2 (MDD).

ENIJ     2.50 302 eP     41 27.27   -0.6
                eS      41 57.20
EMEL     2.78 263 ePn    41 31.50   -0.4
                eSn     42 04.90
ACU      2.92 347 ePn    41 33.90    0.0
                eSn     42 08.90
AFC      3.57 298 ePn    41 43.80    0.5
ECOG     3.59 298 ePn    41 44.20    0.6
EVIA     3.78 323 ePn    41 46.80    0.6
                eSn     42 29.00
ECHE     4.07 345 ePn    41 50.30    0.0
                eSn     42 36.00
EBAN     4.19 308 ePn    41 51.90   -0.1
ESEL     4.54  25 ePn    41 58.10    1.1
                eSn     42 50.10
EHOR     5.03 297 eP     42 02.98   -0.9
IFR      5.05 247 iP     42 05.00    0.7
                i       43 25.00
EROO     5.15 360 eP     42 05.23   -0.4
                eS      43 04.30
TOL      5.50 321 ePn    42 11.50    1.0
                eSn     43 32.00
GUD      6.14 325 ePn    42 19.60    0.0
EPLA     6.76 312 ePn    42 27.60   -0.7
HFS     25.95  15 eP     46 19.20   -1.4
        0.7s     2.70nm          4.0mb
     S.D. = 0.8  on  16 of  16 obs.
-------------------------------------------
•  MAR  08, 1991  17h 53m 41.96± 0.68s
   60.860 N ±16.3km  166.823 E ±13.6km
   DEPTH =  10.0km  (geophysicist)
   4.5mb (  8 obs.)
 EASTERN SIBERIA                     (671)

ILT      9.42  35 eP     56 02.00    1.4
        2.0s     45.00nm          5.5mb
                  e      58 44.00
                  i      59 02.00
YKA     35.18  52 eP     00 36.30   -1.1
        0.7s      1.50nm          4.0mb
LZH     46.25 267 eP     02 10.00    1.0
        1.0s     23.00nm          5.1mb
KMI     55.80 260 Pd     03 21.50    0.0
                  pP     03 26.50   16kmX
NB2     56.99 346 P      03 28.80   -0.6
        0.7s      4.20nm          4.6mb
SCH     57.11  34 eP     03 30.00   -0.3
GUN     61.69 277 P      04 02.00   -0.7
KKN     62.08 277 P      04 05.40    0.2
GKN     62.22 278 P      03 58.80   -7.2X

CHTO    62.99 260 eP     04 11.20    0.2
        1.0s     5.00nm           4.7mb
GBA     77.94 276 Pd     05 40.90   -0.6
        0.9s     3.00nm           4.4mb
WB2     84.68 210 eP     06 17.10    0.4
        0.6s     2.10nm           4.5mb
WRA     84.68 210 P      06 17.00    0.2
        0.7s     1.10nm           4.2mb
     S.D. = 0.8  on  12 of  13 obs.
-------------------------------------------
?  MAR  08, 1991  18h 08m 40.06± 1.17s
   60.298 N ±26.7km  167.578 E ±20.3km
   DEPTH =  10.0km  (geophysicist)
   4.2mb (  4 obs.)
 EASTERN SIBERIA                     (671)

ILT      9.68  32 eP     11 02.00   -0.3
                e       13 49.00
INK     25.76  47 eP     14 13.00    1.1
YKA     35.23  52 eP     15 36.60    0.6
        0.7s      1.20nm          3.9mb
KMI     56.08 261 eP     18 22.50    0.9
NB2     57.62 347 P      18 29.60   -2.4
        1.0s      4.00nm          4.4mb
GUN     62.13 278 P      19 03.80    0.0
KKN     62.53 278 P      19 07.60    1.4
GKN     62.67 279 P      19 07.60    0.5
WB2     84.38 211 eP     21 11.50   -1.9
        0.6s      1.50nm          4.4mb
WRA     84.39 211 P      21 18.00    4.6X
        1.5s      1.70nm          4.1mb
     S.D. = 1.5  on   9 of  10 obs.
-------------------------------------------
   MAR  08, 1991  18h 22m 47.13± 0.48s
   60.942 N ± 9.8km  166.729 E ± 6.7km
   DEPTH =  10.0km  (geophysicist)
   4.9mb ( 20 obs.)
 EASTERN SIBERIA                     (671)

ILT      9.38  36 eP     25 04.00   -1.2
                i       25 48.00
                e       27 44.00
IMA     18.14  57 eP     27 01.60    1.1
TOA     22.11  66 eP     27 46.60    2.8
INK     25.63  48 eP     28 17.50   -0.3
                pP      28 51.00  165kmX
MBC     28.39  29 eP     28 42.50   -0.4
SNY     32.22 253 eP     29 19.60    2.4
YKA     35.16  52 eP     29 41.10   -1.4
        0.8s      2.90nm          4.2mb
BJI     37.12 259 eP     29 58.00   -1.2
        1.0s     18.00nm          4.8mb
SES     44.54  65 eP     31 01.00    0.7
FFC     45.21  55 eP     31 04.00   -1.6
        1.0s     16.00nm          4.9mb
GTA     45.56 274 Pc     31 09.20    0.5
        0.8s     10.00nm          4.8mb
LZH     46.21 267 eP     31 14.60    0.7
        1.2s     31.00nm          5.2mb
                  sP     31 27.50
WMO     47.98 287 P      31 29.40    1.7
FRB     48.85  29 eP     31 33.00   -0.9
CD2     50.45 263 P      31 47.00    0.3
GYA     52.76 257 P      32 04.60    0.3
NUR     55.40 338 eP     32 23.00   -0.1
KMI     55.77 260 Pc     32 26.50    0.0
NB2     56.90 346 P      32 33.70   -0.3
        0.7s      9.00nm          4.9mb
SCH     57.07  34 eP     32 34.00   -1.2
HFS     57.47 344 eP     32 36.90   -1.0
        0.9s      9.90nm          4.8mb
GUN     61.64 277 PKP    33 07.06   -0.4
KKN     62.03 277 PKP    33 09.40   -0.6
PKI     62.15 277 PKP    33 10.10   -0.8
GKN     62.16 278 PKP    33 10.02   -0.8
DMN     62.26 277 PKP    33 09.14   -2.4
CHG     62.96 260 eP     33 15.90   -0.1
EKA     63.79 354 P      33 22.00    1.0
        1.3s     24.00nm          5.2mb
KSP     66.07 340 eP     33 35.00   -0.7
CLL     66.13 342 eP     33 35.00   -1.1
                e       34 12.00
MOX     66.98 343 eP     33 42.50    0.9
                e       34 19.00
PRU     67.18 341 P      33 43.50    0.7
KHC     68.16 341 eP     33 49.50    0.4
ZST     68.48 339 eP     33 50.90   -0.1
```

08d 18h

		e	34 28.90		
CDF	69.74	346 eP	33 59.00	0.2	
FLN	70.16	351 eP	34 01.10	-0.1	
	1.0s	28.00nm		5.3mb	
HAU	70.25	346 eP	34 02.00	0.1	
LDF	70.30	351 eP	34 02.00	-0.1	
	0.7s	5.50nm		4.8mb	
BSF	70.37	346 eP	34 02.60	-0.1	
	0.7s	5.50nm		4.8mb	
GRR	70.56	351 eP	34 03.70	0.0	
	0.8s	18.80nm		5.3mb	
LPF	70.93	351 eP	34 06.20	0.3	
	0.8s	10.75nm		5.0mb	
LOR	71.26	348 eP	34 08.10	0.1	
	0.8s	12.75nm		5.1mb	
SSF	71.50	348 eP	34 09.70	0.3	
	0.9s	8.20nm		4.8mb	
LBF	71.53	348 eP	34 09.60	0.0	
AVF	71.78	348 eP	34 11.40	0.3	
	0.8s	9.40nm		4.9mb	
SMF	71.87	348 eP	34 11.70	0.0	
BGF	72.06	348 eP	34 12.90	0.1	
	0.9s	9.00nm		4.9mb	
TCF	72.39	349 eP	34 15.20	0.5	
	0.8s	5.35nm		4.7mb	
MAF	72.42	349 eP	34 15.40	0.5	
	0.9s	5.75nm		4.7mb	
LSF	72.49	349 eP	34 15.60	0.3	
LPL	72.66	345 P	34 17.40	0.8	
LPG	72.68	345 P	34 17.70	0.9	
RJF	73.43	349 P	34 21.30	0.5	
HYB	74.07	277 eP	34 24.50	-0.4	
EPF	75.79	350 P	34 34.70	0.2	
GBA	77.89	276 P	34 46.00	-0.4	
WRA	84.73	210 P	35 21.00	-1.2	
	0.7s	3.30nm		4.7mb	
	S.D. = 0.9	on 57 of 57 obs.			

• MAR 08, 1991 18h 23m 23.01± 0.49s
60.651 N ± 9.7km 167.583 E ±12.4km
DEPTH = 10.0km (geophysicist)
4.8mb (9 obs.)
EASTERN SIBERIA (671)

MAT	30.50	231 eP	29 38.00	-0.1	
BJI	37.48	260 eP	30 58.00	19.9X	
	1.0s	18.00nm			
SES	44.28	65 eP	31 35.00	0.9	
FFC	45.04	55 eP	31 39.00	-1.1	
	0.9s	15.00nm		4.9mb	
KAF	54.03	339 eP	32 45.00	-3.9X	
NUR	55.82	339 eP	32 58.00	-4.0X	
NB2	57.28	347 P	33 08.90	-3.6X	
	0.8s	8.40nm		4.8mb	
HFS	57.86	345 eP	33 12.50	-4.0X	
	0.8s	8.50nm		4.8mb	
FLN	70.52	352 eP	34 38.50	-0.8	
HAU	70.64	347 eP	34 39.60	-0.5	
LPF	71.28	352 eP	34 43.70	-0.2	
LOR	71.63	348 eP	34 45.70	-0.4	
	0.8s	8.75nm		4.9mb	
SSF	71.87	349 eP	34 47.20	-0.3	
LBF	71.90	348 eP	34 47.00	-0.7	
AVF	72.15	349 eP	34 49.10	0.0	
	0.8s	6.70nm		4.8mb	
SMF	72.25	348 eP	34 49.40	-0.4	
TCF	72.76	349 eP	34 52.70	-0.1	
LPL	73.05	346 eP	34 55.30	0.6	
LPG	73.06	346 eP	34 55.50	0.6	
CAF	74.12	349 eP	35 01.40	0.7	
LFF	74.22	350 eP	35 02.40	1.2	
	0.5s	5.10nm		4.8mb	
LPO	74.44	350 eP	35 03.10	0.6	
	0.5s	3.65nm		4.7mb	
WRA	84.69	211 P	35 58.00	0.1	
	0.6s	5.90nm		5.0mb	
ASPA	88.37	211 eP	36 15.60	-0.2	
	1.1s	5.00nm		4.7mb	
	S.D. = 0.6	on 19 of 24 obs.			

MAR 08, 1991 20h 06m 02.31± 0.62s
60.921 N ±12.4km 167.064 E ± 6.8km
DEPTH = 10.0km (geophysicist)
4.7mb (15 obs.)
EASTERN SIBERIA (671)

ILT	9.30	35 eP	08 18.00	-1.3	
	Z 10s	0.50um			
		eS	09 53.00		
		e	16 45.00		
BRW	17.62	39 e(P)	10 11.50	2.5	
IMA	18.02	57 eP	10 15.70	1.5	
	1.4s	15.30nm		3.9mb	
TOA	21.97	66 eP	10 57.90	0.3	
INK	25.52	48 eP	11 31.50	-0.5	
YKA	35.05	52 eP	12 55.20	-1.4	
	0.6s	1.60nm		4.1mb	
SES	44.40	65 eP	14 14.00	-0.3	
FFC	45.09	55 eP	14 19.00	-0.8	
	0.9s	10.00nm		4.8mb	
GTA	45.73	274 eP	14 25.80	0.6	
	0.8s	10.00nm		4.8mb	
LZH	46.37	267 eP	14 31.50	1.2	
	1.0s	18.00nm		5.1mb	
WMO	48.14	287 eP	14 45.00	0.9	
KAF	53.69	338 iP	15 25.40	-0.3	
NUR	55.48	339 eP	15 38.00	-0.8	
KMI	55.92	261 eP	15 42.50	-0.3	
NB2	56.96	346 P	15 48.70	-0.9	
	0.7s	7.60nm		4.8mb	
SCH	56.99	34 eP	15 49.00	-0.9	
UPP	57.25	342 iP	15 50.80	-0.7	
HFS	57.53	345 eP	15 52.00	-1.5	
	0.9s	9.30nm		4.8mb	
GUN	61.80	277 P	16 23.20	-0.6	
KKN	62.19	278 P	16 25.80	-0.5	
GKN	62.33	278 P	16 26.40	-0.7	
CHTO	63.12	260 eP	16 32.30	0.1	
	1.0s	4.00nm		4.6mb	
CLL	66.20	343 e(P)	16 52.00	0.3	
KHC	68.24	342 eP	17 05.50	0.8	
ZST	68.56	339 eP	17 08.00	1.4	
CDF	69.80	346 eP	17 14.40	0.0	
HAU	70.31	346 eP	17 17.40	0.0	
	0.7s	4.40nm		4.7mb	
BSF	70.43	346 eP	17 18.00	-0.3	
LOR	71.31	348 eP	17 23.30	-0.2	
	0.9s	9.00nm		4.9mb	
SSF	71.55	348 eP	17 24.80	-0.1	
	0.8s	4.70nm		4.6mb	
AVF	71.84	348 eP	17 26.70	0.1	
	0.9s	5.75nm		4.7mb	
SMF	71.93	348 eP	17 26.90	-0.3	
TCF	72.44	349 eP	17 30.40	0.2	
MAF	72.48	349 eP	17 30.60	0.2	
	0.9s	4.90nm		4.6mb	
LPL	72.72	346 eP	17 32.80	0.7	
	0.7s	3.30nm		4.5mb	
LPG	72.74	346 eP	17 33.00	0.7	
LFF	73.91	350 eP	17 39.40	0.7	
	0.7s	8.80nm		4.9mb	
LPO	74.13	350 eP	17 40.50	0.5	
HYB	74.24	277 eP	17 40.50	-0.6	
	S.D. = 0.9	on 39 of 39 obs.			

• MAR 08, 1991 20h 51m 23.64± 0.77s
61.093 N ±20.6km 166.916 E ±11.7km
DEPTH = 10.0km (geophysicist)
4.3mb (4 obs.)
EASTERN SIBERIA (671)

ILT	9.20	36 eP	53 39.00	-0.3	
	Z 12s	0.50um			
		e	56 27.00		
		e	11 11.10		
INK	25.46	48 eP	56 53.00	0.3	
YKA	35.00	52 eP	58 16.80	-0.8	
	0.7s	0.90nm		3.7mb	
SES	44.39	65 eP	59 36.00	0.4	
FFC	45.05	55 iPd	59 41.00	0.2	
	1.0s	12.00nm		4.8mb	
KMI	55.88	260 Pd	01 03.50	-0.3	
NB2	56.77	346 P	01 09.80	0.2	
	1.0s	4.00nm		4.4mb	
GUN	61.71	277 P	01 45.00	0.5	
GKN	62.23	278 P	01 47.60	-0.2	
CHTO	63.08	260 eP	01 53.00	-0.2	
	0.9s	1.71nm		4.2mb	
WB2	84.90	211 eP	03 53.50	-6.0X	
	S.D. = 0.4	on 10 of 11 obs.			

& MAR 08, 1991 21h 02m 45.08s
37.104 N 116.074 W
DEPTH = 0.0km

4.3mb (8 obs.)
SOUTHERN NEVADA (41)
<DOE>. ML 4.6 (BRK). 37° 06' 15.70" N., 116° 04' 26.50" W., Surfoce Elev. 1281 m., Depth of Buriol 333 m., Shot Time 210245.08, "COSO," Nevodo Test Site (Dept. of Energy).

GLR	0.11	25 iPc	02 47.50	0.3	
BGB	0.14	242 iPc	02 48.57	0.7	
SSP	0.21	213 iPc	02 49.73	0.4	
TMBR	0.26	254 iPc	02 50.77	0.5	
LOP	0.26	197 iPc	02 50.60	0.3	
CDH1	0.31	219 iPc	02 51.46	0.2	
GMR	0.33	46 iPc	02 52.18	0.4	
YMT5	0.37	236 iPc	02 52.66	0.3	
BLT	0.38	354 iPc	02 52.52	-0.1	
YMT4	0.40	230 iPc	02 53.17	0.2	
LSM	0.40	204 iPc	02 52.80	-0.2	
YMT3	0.42	221 iPc	02 53.37	0.0	
YMT1	0.44	236 iPc	02 54.13	0.2	
MCY	0.45	168 iPc	02 53.80	-0.3	
YMT2	0.46	226 iPc	02 54.17	-0.1	
SPRG	0.46	153 iPc	02 54.39	0.1	
BMTN	0.49	292 iPc	02 55.16	0.3	
SDH	0.50	205 iPc	02 54.63	-0.5	
TPU	0.60	34 iPc	02 56.73	-0.4	
OCS	0.67	11 iPc	02 57.69	-0.9	
KRNA	0.68	339 iPc	02 58.60	-0.1	
SGV	0.78	261 iPc	03 00.31	-0.3	
MTI	0.86	48 iPc	03 01.21	-1.0	
PRN	0.87	69 iPc	03 01.83	-0.7	
APKW	0.88	153 iPc	03 01.77	-0.8	
GMN	0.97	282 iPc	03 03.78	-0.7	
GVN	1.02	265 iPc	03 04.76	-0.6	
HCR	1.16	346 iPc	03 07.15	-0.8	
DLM	1.18	64 iPc	03 07.63	-0.5	
MGM	1.18	287 iPc	03 07.71	-0.5	
MZP	1.20	300 iPc	03 07.93	-0.6	
LCH	1.26	276 iPc	03 08.95	-0.6	
TNP	1.33	317 iPc	03 10.60	-0.2	
PPK	1.50	283 iPc	03 13.26	-0.2	
SVP	1.50	294 iPc	03 13.57	-0.1	
CLC	1.78	224 iPc	03 16.60	-0.7	
GSC	1.89	198 iPc	03 18.40	-0.7	
BONR	1.96	296 iPc	03 20.20	-0.1	
KVN	2.52	321 iPc	03 27.60	-0.5	
SBB	2.80	211 ePc	03 31.00	-1.1	
FRI	2.91	269 iPc	03 33.30	-0.2	
TPC	2.99	180 ePc	03 33.90	-0.9	
PEC	3.33	196 eP	03 39.10	-0.4	
MSU	3.39	64 eP	03 39.70	-1.0	
ABL	3.40	230 eP	03 40.00	-0.7	
PKEM	3.41	253 eP	03 41.40	0.7	
CMB	3.55	286 iPc	03 42.00	-0.7	
		eS	04 21.00		
BCH	3.77	241 eP	03 45.30	-0.6	
PLM	3.80	190 iPc	03 46.00	-0.4	
PRI	3.82	257 iPd	03 47.00	0.4	
		i	03 53.50		
LLA	3.94	264 ePc	03 47.60	-0.5	
DUG	4.00	39 eP	03 48.00	-1.2	
GLA	4.17	165 eP	03 50.30	-1.1	
SAO	4.32	267 eP	03 52.90	-0.6	
PRS	4.32	261 eP	03 52.70	-0.9	
MHC	4.45	275 ePd	03 55.30	-0.2	
		eSg	05 08.00		
ORV	4.92	301 ePd	04 01.20	-0.9	
BKS	4.96	281 ePc	04 04.20	1.6	
MIN	5.40	308 ePd	04 08.60	-0.5	
PV09	5.67	74 eP	04 12.50	-0.5	
BW06	7.56	39 eP	04 39.00	-0.5	
ALO	8.08	103 eP	04 45.20	-1.6	
ANMO	8.08	103 eP	04 44.50	-2.3	
LRM	9.12	16 eP	05 02.80	1.6	
EDM	16.23	6 eP	06 39.00	3.0	
UYO	17.81	93 e(P)	06 50.40	-5.6	
FFC	20.10	24 eP	07 21.00	-2.0	
	0.7s	12.00nm		4.3mb	
YKA	25.43	2 eP	08 13.80	-1.9	
	0.6s	1.30nm		3.8mb	
PMR	32.01	331 eP	09 15.00	0.0	
	0.8s	6.90nm		4.6mb	
PDB	33.25	325 eP	09 25.50	-0.3	
FBA	33.55	336 eP	09 28.50	0.1	
	0.8s	6.03nm		4.6mb	

IMA 36.22 335 eP 09 51.30 -0.1
0.8s 3.45nm 4.2mb
FRB 38.91 31 eP 10 14.00 0.2
MBC 39.26 359 eP 10 16.50 -0.1
1.0s 7.00nm 4.2mb
NB2 73.20 24 P 14 17.50 -1.9
0.8s 1.70nm 4.2mb
HFS 74.69 24 iPc 14 25.90 -2.0
0.9s 6.40nm 4.7mb
76 obs. associated

MAR 08, 1991 21h 14m 33.07± 0.17s
60.911 N ± 4.0km 167.285 E ± 2.2km
DEPTH = 10.0km (geophysicist)
5.4mb (75 obs.) 4.4Msz (7 obs.)
EASTERN SIBERIA (671)

KLY 5.70 219 iP 16 04.10 4.4X
SMY 9.01 153 P 16 42.50 -3.5X
PET 9.20 215 eP 16 57.00 8.3X
1.0s 114.00nm 6.2mb
Z 20s 2.00um 4.3Msz
LR 19 20.00
ILT 9.25 35 eP 16 48.00 -1.3
0.5s 65.00nm 6.3mb
N 18s 4.10um
E 18s 3.20um
e 17 40.00
eS 18 48.00
ADK 12.64 129 e(P) 17 26.30 -9.2X
ANM 13.00 62 e(P) 17 42.80 2.5
TTA 17.24 67 e(P) 18 38.30 3.0X
BRW 17.56 39 eP 18 42.30 3.3X
SVW 17.83 73 eP 18 43.30 0.8
IMA 17.93 57 eP 18 45.50 1.6
1.6s 148.40nm 4.9mb
PDB 18.91 76 P 18 54.00 -1.7
FBA 20.49 59 iPc 19 13 80 0.5
PMR 20.69 69 eP 19 14.50 -0.8
2.4s 178.90nm 5.0mb
TOA 21.87 66 iPc 19 28.50 1.1
KLU 22.18 68 P 19 30.00 -0.5
INK 25.45 48 ePd 20 02.20 0.2
1.0s 71.00nm 5.3mb
MDJ 27.52 251 eP 20 20.50 -0.8
MBC 28.28 29 ePd 20 27.90 0.0
1.0s 8.00nm 4.5mb
pP 21 10.50 212kmX
CN2 30.07 255 Pc 20 43.70 -0.6
Z 15s 1.70um 4.8MszX
pP 20 52.90 32kmX
eS 25 42.00
MAT 30.55 230 iPc 20 48.60 0.0
1.3s 111.54nm 5.6mb
SNY 32.47 254 eP 21 05.40 0.1
1.4s 100.00nm 5.6mb
Z 13s 0.80um 4.6MszX
E 12s 0.70um
eS 26 17.00
YKA 34.97 52 eP 21 25.60 -1.1
1.1s 12.30nm 4.7mb
BJI 37.38 260 eP 21 48.00 0.7
1.2s 94.00nm 5.4mb
HHC 38.99 265 P 22 02.00 1.0
Z 12s 0.60um 4.6MszX
BTO 39.94 266 P 22 10.00 1.2
N 12s 0.60um
E 12s 0.80um
eS 28 07.00
TIA 39.97 255 eP 22 10.10 1.1
TIY 41.01 261 Pc 22 18.60 1.0
1.0s 30.00nm 5.0mb
Z 14s 0.80um 4.7MszX
N 10s 0.50um
PNT 41.18 72 eP 22 19.00 0.2
0.7s 34.00nm 5.2mb
EDM 41.29 64 iPc 22 20.90 1.2
BMW 41.50 78 P 22 22.00 0.4
LON 41.98 76 P 22 26.00 0.5
SSE 42.35 247 P 22 28.50 0.0
1.4s 54.00nm 5.1mb
Z 20s 0.60um 4.5Msz
NJ2 42.60 250 Pd 22 31.80 1.2
Z 16s 0.60um 4.6MszX
NEW 43.09 71 P 22 34.60 0.1
0.8s 26.04nm 5.0mb
VGB 43.37 77 P 22 37.30 0.5

SES 44.30 65 ePc 22 44.80 0.5
1.2s 99.00nm 5.5mb
FFC 45.01 55 ePc 22 49.70 -0.2
1.2s 60.00nm 5.4mb
XAN 45.66 261 P 22 55.40 0.1
N 11s 0.50um
GTA 45.83 274 iPc 22 57.00 0.2
1.0s 20.00nm 5.1mb
E 10s 0.90um
WHN 45.95 253 eP 22 59.00 1.4
pP 23 05.00 20kmX
LBFM 45.97 82 P 22 58.00 0.1
WDC 46.25 83 ePd 23 00.80 1.0
LZH 46.48 268 iPc 23 01.80 -0.1
1.2s 86.00nm 5.7mb
Z 20s 0.54um 4.5Msz
E 12s 0.67um
sP 23 15.00
KEV 46.60 342 eP 23 03.00 0.8
MIN 46.88 82 eP 23 05.10 0.1
LRM 47.04 70 eP 23 06.60 0.2
ORV 47.54 83 eP 23 09.90 -0.2
WMQ 48.25 287 P 23 16.00 0.3
Z 10s 0.60um 4.9MszX
eS 30 16.00
FRB 48.75 29 eP 23 18.00 -1.1
SOD 48.83 341 iP 23 20.20 0.5
CMB 49.27 83 eP 23 23.70 0.1
KVN 49.58 80 P 23 26.00 -0.1
LLA 50.13 85 eP 23 31.00 0.9
PRS 50.14 85 eP 23 30.20 0.0
BONR 50.35 81 P 23 32.70 0.6
FRI 50.43 83 eP 23 32.60 0.3
BW06 50.71 71 P 23 34.00 -0.8
0.8s 18.45nm 5.1mb
CD2 50.71 264 P 23 34.50 -0.2
1.2s 100.00nm 5.6mb
TNP 50.77 81 P 23 35.00 -0.2
1.0s 15.83nm 4.9mb
RSSD 52.17 66 P 23 45.00 -0.8
1.0s 33.89nm 5.2mb
MSU 52.84 76 P 23 50.40 -0.5
GYA 53.02 258 iPc 23 52.20 0.0
KAF 53.74 338 iP 23 56.60 -0.2
0.9s 26.50nm 5.2mb
PLM 54.73 84 P 24 04.70 -0.1
GOL 55.07 70 P 24 07.00 -0.3
1.0s 7.50nm 4.7mb
NUR 55.53 339 eP 24 09.00 -1.0
0.8s 36.70nm 5.5mb
GLA 55.96 82 P 24 14.00 0.5
KMI 56.03 261 Pc 24 13.50 -0.8
1.5s 100.00nm 5.6mb
SCH 56.94 34 eP 24 19.00 -1.3
NB2 56.99 346 P 24 19.80 -0.8
0.9s 40.80nm 5.5mb
UPP 57.29 342 iP 24 21.90 -0.7
HFS 57.57 345 eP 24 23.20 -1.4
0.7s 25.70nm 5.4mb
Z 16s 0.31um 4.5MszX
LR 44 30.00
LSA 57.86 274 Pd 24 27.60 0.0
ANMO 58.42 74 P 24 31.00 -0.1
1.0s 48.75nm 5.5mb
ALQ 58.42 74 ePc 24 31.00 -0.1
1.0s 13.75nm 5.0mb
GUN 61.91 277 P 24 54.24 -1.1
KKN 62.30 278 Pc 24 56.74 -1.0
PKI 62.42 277 Pc 24 57.42 -1.2
GKN 62.43 278 P 24 57.66 -0.9
0.9s 53.00nm 5.7mb
DMN 62.54 278 Pc 24 58.32 -1.0
LOE 63.10 257 iPc 25 02.20 -0.6
EKA 63.85 354 P 25 08.00 0.7
1.1s 42.30nm 5.5mb
ELC 64.19 59 P 25 07.60 -2.2
UYO 64.56 65 iPd 25 11.60 -0.6
OLY 64.74 62 P 25 11.70 -1.7
NDI 65.41 285 eP 25 17.00 -0.8
WIT 65.57 347 eP 25 21.00 2.6
KSP 66.19 340 iP 25 22.00 -0.4
1.1s 43.00nm 5.6mb
e 27 44.80
CLL 66.24 343 iPd 25 22.70 -0.1
1.2s 45.00nm 5.5mb
KRA 66.31 338 iPd 25 23.50 0.3
0.9s 43.00nm 5.6mb

i 25 25.00
WTS 66.36 347 eP 25 24.00 0.5
1.0s 59.00nm 5.7mb
e 25 38.00
BRG 66.53 342 iP 25 23.50 -1.1
1.5s 26.00nm 5.2mb
i 25 30.60
KHT 66.86 259 eP 25 27.00 -0.1
MOX 67.09 343 iP 25 28.50 0.3
1.3s 49.00nm 5.5mb
PRU 67.30 341 P 25 29.50 0.0
1.2s 21.50nm 5.2mb
ENN 67.67 347 eP 25 32.00 0.2
1.0s 22.00nm 5.3mb
GRF 68.08 343 iPc 25 34.70 0.3
1.1s 49.00nm 5.6mb
Z 20s 0.20um 4.3Msz
SNF 68.09 348 P 25 35.20 0.8
NNT 68.21 256 eP 25 25.00 -10.6X
KHC 68.28 342 iP 25 36.00 0.3
1.2s 21.00nm 5.2mb
e 26 02.60
ABH 68.36 346 eP 25 36.56 0.3
PSZ 68.37 337 eP 25 37.00 0.7
WET 68.37 342 eP 25 36.50 0.2
1.1s 58.00nm 5.7mb
DOU 68.47 348 P 25 36.30 -0.5
ZST 68.61 339 iP 25 38.40 0.7
VKA 68.68 340 eP 25 37.00 -1.1
SRO 68.76 338 eP 25 38.60 0.0
i 25 50.60
QUE 68.86 294 eP 25 39.60 -0.2
VRI 68.87 332 ePd 25 40.00 0.6
BUD 68.95 338 eP 25 40.90 1.1
CVO 69.04 332 ePd 25 41.50 1.0
GWF 69.24 346 P 25 41.28 -0.4
MLR 69.41 332 ePc 25 45.00 2.2
BHG 69.76 342 iPd 25 45.60 0.8
1.2s 60.00nm 5.6mb
WLS 69.83 346 P 25 44.75 -0.5
CDF 69.84 346 P 25 45.01 -0.4
ECH 70.05 346 P 25 46.12 -0.4
JSC 70.06 55 P 25 45.30 -1.4
VITF 70.18 347 P 25 47.11 -0.2
BZS 70.23 335 eP 25 48.00 0.4
FLN 70.24 351 eP 25 47.00 -0.6
1.3s 65.00nm 5.6mb
Z 19s 0.17um 4.3Msz
FEL 70.28 345 P 25 47.22 -0.9
KBA 70.31 341 iPc 25 49.60 1.2
1.3s 81.00nm 5.7mb
i 26 08.40
HAU 70.35 347 eP 25 48.10 -0.3
1.0s 30.00nm 5.4mb
Z 21s 0.22um 4.4Msz
LDF 70.38 351 eP 25 47.70 -0.8
1.0s 24.00nm 5.3mb
MOF 70.41 346 P 25 48.23 -0.6
BSF 70.47 346 eP 25 48.70 -0.5
0.9s 24.55nm 5.3mb
GRR 70.64 352 eP 25 49.60 -0 5
1.0s 34.00nm 5.4mb
LOMF 70.94 346 P 25 51.06 -1.0
LPF 71.00 352 eP 25 52.00 -0.3
1.0s 28.00nm 5.3mb
LOR 71.34 348 iPc 25 54.10 -0.3
1.0s 62.00nm 5.7mb
Z 20s 0.13um 4.2Msz
SSF 71.58 348 iPc 25 55.80 0.0
1.2s 53.55nm 5.5mb
LBF 71.61 348 eP 25 55.70 -0.4
1.1s 24.40nm 5.2mb
AVF 71.87 348 eP 25 57.40 -0.1
1.1s 78.15nm 5.7mb
SMF 71.96 348 eP 25 57.80 -0.3
1.4s 61.00nm 5.5mb
BGF 72.15 349 eP 25 59.10 -0.1
1.0s 29.00nm 5.3mb
MFF 72.36 351 eP 26 00.50 0.1
1.0s 22.00nm 5.2mb
TCF 72.47 349 eP 26 01.20 0.0
1.0s 28.00nm 5.3mb
MAF 72.51 349 eP 26 01.50 0.2
1.2s 46.10nm 5.4mb
LSF 72.57 350 eP 26 01.70 0.0
1.2s 61.00nm 5.6mb
LPL 72.76 346 eP 26 03.60 0.5

08d 21h

	1.0s	26.00nm		5.3mb	
LPG	72.77	346 eP	26 03.90	0.6	
	1.0s	44.00nm		5.5mb	
BBTK	72.97	325 iPd	26 06.00	1.7	
YLV	73.21	328 eP	26 05.00	-0.6	
NJF	73.51	350 eP	26 07.20	0.0	
	0.9s	16.40nm		5.1mb	
	Z 20s	0.13um		4.2Msz	
SKO	73.76	334 eP	26 09.20	0.5	
CAF	73.84	349 eP	26 09.70	0.6	
	1.3s	66.80nm		5.5mb	
FIR	73.86	342 eP	26 09.50	0.3	
LFF	73.94	350 iPc	26 10.10	0.4	
	0.8s	21.50nm		5.2mb	
SRS	74.10	332 iP	26 10.00	-0.7	
VAY	74.13	333 eP	26 11.70	0.9	
	1.2s	47.00nm		5.4mb	
LPO	74.16	350 iPc	26 11.50	0.6	
	1.0s	32.00nm		5.3mb	
SBF	74.30	345 eP	26 11.80	-0.1	
	1.3s	101.10nm		5.7mb	
HYB	74.34	278 iPc	26 11.40	-1.0	
	1.0s	45.00nm		5.5mb	
		e	26 23.00		
SOH	74.43	332 iPc	26 13.00	0.3	
OHR	74.72	334 eP	26 11.00	-3.3X	
FNA	74.91	334 iP	26 15.00	-0.4	
PGF	75.39	344 eP	26 17.80	-0.4	
	1.0s	22.00nm		5.2mb	
POO	75.65	282 iPc	26 18.30	-1.6	
	1.2s	7.50nm		4.6mb	
EPF	75.87	350 eP	26 20.60	-0.3	
	1.1s	25.65nm		5.2mb	
GBA	78.16	277 P	26 33.10	-0.8	
GLH	78.72	320 eP	26 38.00	1.2	
TOL	79.31	353 eP	26 40.00	0.1	
DSI	79.87	320 eP	26 44.00	1.0	
KOD	81.05	275 eP	26 49.10	-0.8	
PRNI	81.12	320 eP	26 50.50	0.8	
WB2	84.84	211 iPd	27 08.80	0.2	
	0.7s	35.10nm		5.7mb	
ASPA	88.52	210 iPc	27 26.60	0.0	
	1.0s	11.60nm		5.1mb	
STK	94.81	202 eP	28 13.60	18.1X	
	1.2s	4.20nm			
	S.D. = 0.8	on 160 of 169 obs.			

• MAR 08, 1991 21h 59m 38.95± 0.88s
61.045 N ±21.1km 166.811 E ±15.3km
DEPTH = 10.0km (geophysicist)
4.5mb (3 obs.)
EASTERN SIBERIA (671)

ILT	9.27	36 eP	01 55.00	-0.5	
	Z 12s	0.60um			
		i	01 58.40		
		e	04 39.00		
		e	33 37.00		
INK	25.53	48 eP	05 10.00	1.3	
YKA	35.07	52 eP	06 32.50	-1.0	
	0.7s	1.10nm		3.8mb	
KMI	55.82	260 Pd	09 19.00	0.3	
NB2	56.81	346 P	09 25.60	0.5	
	0.9s	5.40nm		4.6mb	
GUN	61.66	277 P	09 59.60	0.1	
KKN	62.05	277 P	10 02.40	0.4	
GKN	62.19	278 P	10 01.60	-1.2	
WB2	84.83	210 eP	12 14.50	0.0	
	0.8s	3.30nm		4.6mb	
	S.D. = 0.9	on 9 of 9 obs.			

% MAR 09, 1991 00h 15m 37.34± 2.79s
44.779 N ±20.4km 2.357 E ±14.4km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.1 (LDG).

CAF	0.25	305 Pg	15 42.50	-0.3	
		Sg	15 48.80		
RJF	0.79	312 Pg	15 52.30	-0.5	
		Sg	16 06.00		
LPO	0.84	264 Pg	15 53.60	0.1	
		Sg	16 06.40		
MAF	1.45	6 Pg	16 03.00	-0.6	
		Sg	16 22.80		
LSF	1.58	339 Pg	16 07.00	1.5	
		Sg	16 28.40		
BGF	1.81	11 Pg	16 08.60	-0.2	
		Sg	16 33.00		
	S.D. = 1.0	on 6 of 6 obs.			

? MAR 09, 1991 00h 19m 30.60± 1.29s
61.127 N ±25.7km 166.784 E ±16.2km
DEPTH = 10.0km (geophysicist)
4.2mb (4 obs.)
EASTERN SIBERIA (671)

ILT	9.21	36 eP	21 46.00	-0.3	
		e	24 28.00		
		e	24 30.00		
		e	53 24.00		
INK	25.49	48 eP	25 01.00	1.1	
YKA	35.03	52 eP	26 24.00	-0.8	
	0.7s	0.90nm		3.7mb	
FFC	45.08	55 eP	27 48.00	0.0	
NB2	56.72	346 P	29 16.70	0.5	
	0.6s	2.40nm		4.4mb	
HFS	57.30	344 eP	29 19.80	-0.4	
	0.6s	1.20nm		4.1mb	
CHTO	63.02	260 eP	29 59.70	-0.1	
	0.9s	1.92nm		4.3mb	
SIV	123.55	59 PKP	38 41.80	12.3X	
	S.D. = 0.8	on 7 of 8 obs.			

? MAR 09, 1991 00h 56m 48.54± 0.69s
60.120 N ±20.3km 169.816 E ±16.0km
DEPTH = 10.0km (geophysicist)
5.0mb (10 obs.)
EASTERN SIBERIA (671)

ILT	9.27	28 eP	59 13.00	7.9X	
	Z 12s	0.60um			
	E 12s	0.30um			
		e	02 00.00		
		e	18 19.00		
INK	25.06	47 eP	02 29.00	15.2X	
YKA	34.46	53 eP	03 50.90	13.1X	
	0.9s	0.90nm			
LZH	47.72	271 eP	05 28.00	0.8	
	1.5s	28.00nm		5.1mb	
KMI	57.16	264 Pd	06 38.50	0.6	
NB2	58.04	348 P	06 44.30	0.9	
	0.9s	4.20nm		4.5mb	
HFS	58.65	346 eP	06 47.20	-0.4	
	0.6s	1.70nm		4.3mb	
GUN	63.26	280 P	07 18.60	-1.1	
GKN	63.80	281 P	07 21.60	-1.4	
CHG	64.35	263 eP	07 27.10	0.6	
ZST	69.78	341 eP	08 06.20	5.9X	
HYB	75.70	280 eP	08 36.00	0.3	
GBA	79.51	279 Pc	08 56.60	-0.1	
	0.9s	2.50nm		4.2mb	
PMO	82.23	139 iP	09 12.90	2.0	
	1.2s	80.00nm		5.7mb	
TPT	82.30	139 iP	09 12.60	1.3	
	1.2s	95.00nm		5.8mb	
VAH	82.53	139 iP	09 10.80	-1.7	
	1.2s	115.00nm		5.9mb	
RUV	82.57	139 iP	09 10.80	-1.8	
	1.2s	75.00nm		5.7mb	
WB2	84.83	213 iPc	09 33.20	9.1X	
	0.6s	4.00nm		4.8mb	
WRA	84.83	213 P	09 33.00	8.9X	
	1.7s	2.50nm		4.2mb	
	S.D. = 1.3	on 13 of 19 obs.			

MAR 09, 1991 01h 01m 23.10± 0.21s
54.877 S ± 7.4km 131.533 W ± 4.5km
DEPTH = 10.0km (geophysicist)
5.7mb (24 obs.) 5.8Msz (20 obs.)
SOUTH PACIFIC CORDILLERA (691)
Mo=3.0•10••18 Nm (PPT).
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 95 Dip=81 Slip= 3
NP2: 5 87 171
Principal Axes:
T Plg= 8 Azm=319
P 4 50
Comment: The focal mechanism is poorly controlled and corresponds to strike-slip faulting with a small reverse component. The preferred fault plane is not determined.

MOMENT TENSOR SOLUTION
Dep 12 No. of sto: 6
Moment Tensor; Scale 10••17 Nm
Mrr=-0.20 Mtt= 0.19
Mff= 0.00 Mrt= 0.89
Mrf=-0.55 Mtf= 8.70
Principal axes:
T Val= 8.81 Plg= 2 Azm=315
N -0.08 83 59
P -8.73 7 225
Best Double Couple:Mo=8.8•10••17
NP1:Strike= 1 Dip=84 Slip=-176
NP2: 270 86 -6
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 23S, 60C
Centroid Location:
Origin Time 01:01:33.2 0.2
Lat 54.45S 0.03 Lon 131.68W 0.04
Dep 15.0 FIX Half-duration 3.7
Moment Tensor; Scale 10••17 Nm
Mrr= 0.59 0.17 Mtt= 6.75 0.20
Mff=-7.34 0.16 Mrt= 0.46 0.47
Mrf= 3.13 0.61 Mtf= 7.80 0.22
Principal Axes:
T Val= 10.52 Plg=10 Azm=335
N 0.89 74 208
P -11.41 13 67
Best Double Couple:Mo=1.1•10••18
NP1:Strike=111 Dip=74 Slip= -2
NP2: 201 88 -164

TBI	34.21	330 eP	08 18.00	7.3X	
	1.2s	160.00nm		5.8mb	
KHZ	37.40	266 eP	08 38.80	1.2	
	1.6s	246.00nm		5.7mb	
WEL	37.41	269 P	08 39.00	1.3	
		PP	10 04.00		
		S	14 32.00		
TVO	39.44	333 iP	08 54.60	-0.4	
	1.2s	145.00nm		5.5mb	
PAE	39.65	332 iP	08 56.10	-0.4	
	1.2s	190.00nm		5.6mb	
PPN	39.73	333 iP	08 56.80	-0.5	
	1.2s	115.00nm		5.4mb	
PPT	39.73	332 iP	08 57.00	-0.3	
	1.2s	205.00nm		5.7mb	
AFR	39.82	332 iP	08 57.60	-0.4	
	1.2s	145.00nm		5.5mb	
LNV	46.13	89 eP	09 49.50	0.4	
PCH	46.89	89 eP	09 53.00	-2.2	
SAN	46.92	89 eP	09 56.00	0.6	
PEL	47.13	89 iPc	09 57.13	0.0	
	1.3s	292.31nm		6.2mb	
TAU	51.76	248 eP	10 33.00	0.5	
		e	17 50.00		
LPA	53.20	100 iPc-	10 44.00	0.6	
	1.0s	320.00nm		6.2mb	
	Z 20s	8.51um		5.8Msz	
		eS	18 16.00		
CNB	56.01	256 iPc	11 04.50	0.5	
	1.4s	280.00nm		6.1mb	
		i	11 15.70		
DZM	56.20	280 iPc	11 04.80	-0.7	
TOO	56.52	251 iPc	11 08.50	0.9	
COO	58.08	261 eP	11 19.00	0.3	
ARE	59.55	75 eP	11 29.00	-0.4	
BRS	59.97	264 iPc	11 31.00	-0.8	
		eS	19 42.00		
NNA	60.31	67 iP	11 32.50	-1.8	
	0.8s	21.64nm		5.3mb	
	Z 20s	4.08um		5.6Msz	
CMS	60.83	256 iPc	11 37.50	-0.1	
CNCB	61.24	78 iPc	11 41.90	0.7	
LPB	61.40	78 Pc	11 41.00	-1.1	
	1.0s	90.00nm		5.9mb	
	Z 23s	7.58um		5.8MszX	
		LR	30 32.00		
ZOBO	61.60	78 Pd	11 43.10	-0.5	
	1.0s	66.25nm		5.8mb	
		LR	29 36.00		
ADE	62.12	248 eP	11 47.00	0.6	
	1.5s	488.89nm		6.5mb	
STK	62.89	253 eP	12 08.60	17.2X	
	1.2s	26.80nm			
		eS	20 18.60		
RMO	62.97	262 iPd	11 50.60	-1.4	

1.0s 105.00nm 6.0mb
OLP 65.47 258 eP 12 06.00 -2.3
SIV 65.84 83 P 12 09.80 -1.0
PPD 66.71 95 eP 12 15.60 -0.7
e 12 24.80
VAO 68.44 99 eP 12 26.50 -0.7
e 12 36.80
e 12 42.50
CTA 69.38 264 iPd 12 32.00 -1.0
1.7s 484.62nm 6.4mb
iS 21 42.00
HNR 70.02 282 eP 12 36.00 -0.9
BMA 70.28 101 eP 12 38.50 0.0
e 12 48.60
FORR 70.92 244 iPc 12 43.00 0.8
0.4s 14.00nm 5.4mb
PSO 71.27 59 eP 12 45.50 0.5
JFO 71.51 101 eP 12 45.90 -0.1
e 12 57.00
QIS 72.80 259 iPc 12 53.10 -0.5
ASPA 73.53 252 iPd 12 56.70 -1.1
2.1s 80.70nm 5.4mb
Z 22s 5.70um 5.8Msz
BAO 73.67 94 ePd 12 59.50 0.7
BOG 75.85 60 iPd 13 13.00 1.4
iS 22 58.00
WB2 76.25 255 iPc 13 12.40 -1.0
0.8s 25.80nm 5.4mb
WRA 76.26 255 P 13 12.00 -1.5
1.3s 38.60nm 5.3mb
CRZF 79.03 182 eP 13 33.00 4.7X
SOB1 82.91 96 eP 13 48.00 -1.4
MBL 83.08 243 eP 13 50.00 -0.1
BAR 88.13 12 eP 14 15.00 0.3
PLM 88.78 12 eP 14 20.00 2.0
PEC 89.27 12 P 14 20.00 -0.1
RVR 89.35 12 eP 14 21.00 0.6
PAS 89.41 11 eP 14 24.00 3.3X
MWC 89.49 11 eP 14 23.00 1.6
SYP 89.60 10 eP 14 25.00 3.2X
TPC 89.62 13 eP 14 23.00 1.2
SBB 89.98 11 eP 14 24.00 0.5
ABL 89.99 10 P 14 22.20 -1.5
BCH 90.24 9 P 14 24.80 0.1
GSC 90.70 12 eP 14 29.00 2.2
CLC 91.12 11 eP 14 32.00 3.3X
PRS 91.26 8 eP 14 31.00 1.8
ALQ 92.02 20 eP 14 31.70 -1.3
1.2s 21.88nm 5.4mb
Z 20s 1.49um 5.4Msz
ANMO 92.02 20 P 14 30.50 -2.5
1.2s 67.38nm 5.9mb
Z 20s 1.60um 5.5Msz
FRI 92.06 9 eP 14 33.30 0.4
BKS 92.73 7 e(P) 14 36.40 0.5
Z 20s 4.00um 5.9Msz
N 20s 5.00um
E 20s 2.10um
eLQ 40 04.80
eLR 43 39.20
CMB 93.04 9 eP 14 37.70 0.3
TNP 93.40 11 P 14 39.40 0.1
1.0s 6.25nm 5.0mb
KVN 94.26 10 P 14 42.00 -1.3
MSU 94.49 15 P 14 44.00 -0.4
GOL 96.83 20 P 15 00.00 4.9X
Z 18s 2.90um 5.8Msz
GLD 96.91 20 P 15 00.00 4.7X
Z 20s 3.00um 5.8Msz
SLR 97.86 162 iPd 15 05.00 4.8X
Z 20s 4.96um 6.0Msz
BFT 98.22 163 iPc 15 02.00 0.1
1.0s 40.00nm 6.0mb
RSSD 101.36 20 Pdiff 15 20.00 4.6X
Z 22s 2.65um 5.7Msz
SIT 111.62 358 Pdiff 16 10.00 9.6X
Z 18s 3.81um 6.0Msz
FFC 111.91 18 ePKP 20 05.00 6.3X
1.2s 18.00nm
SDN 112.39 343 PKP 20 10.00 10.4X
Z 19s 4.90um 6.1Msz
PMR 116.95 351 PKP 20 20.00 11.8X
Z 22s 4.95um 6.1Msz
YKA 117.78 9 ePKP 20 09.10 -0.6
1.2s 3.00nm
INK 122.88 359 ePKP 20 19.00 -0.2
BCAO 124.20 143 iPKPd 20 23.30 -0.2

0.7s 20.00nm
i 20 32.00
i 22 09.20
CHG 127.59 247 ePKP 20 31.80 1.9
FRB 127.89 30 ePKP 20 28.00 -1.1
KMI 130.58 256 ePKP 20 40.00 4.3X
CN2 131.08 291 ePKP 20 35.50 -0.3
Z 18s 1.80um 5.8Msz
ePP 22 53.00
eSS 40 22.00
MBC 131.08 4 ePKP 20 35.00 0.1
1.4s 29.00nm
XAN 133.74 269 PKP 20 43.70 2.5X
TIO 134.19 98 ePKP 20 35.00 -7.3X
TIY 134.29 275 ePKP 20 43.00 0.8
Z 24s 2.40um 5.8MszX
N 22s 1.20um
PKS 24 22.00
IFR 137.31 97 iPKP 20 49.00 0.8
i 20 58.00
LZH 138.12 267 ePKP 20 42.00 -7.7X
5.0s 0.42nm
PP 23 39.00
LSA 140.53 248 ePKP 20 55.00 0.4
PKI 141.79 240 PKP 20 52.70 -4.0X
GUN 141.84 240 PKP 20 52.80 -4.0X
DMN 141.97 239 PKP 20 52.80 -4.2X
KKN 142.04 240 PKP 20 53.70 -3.3X
GKN 142.53 239 PKP 20 53.60 -4.2X
GTA 142.72 267 ePKP 20 53.20 -4.5X
Z 34s 1.80um 5.6MszX
EROQ 145.55 94 e(PKP)21 03.30 1.0
EBR 145.59 94 ePKP 21 12.50 10.2X
VAL 145.76 70 ePKP 21 02.50 0.3
NDI 146.60 230 ePKP 21 05.30 0.9
EPF 146.90 91 ePKP 21 06.90 2.4X
1.4s 78.40nm
ETER 147.90 94 e(PKP)20 47.40 -18.6X
LFF 148.28 88 ePKP 21 10.10 3.6X
1.2s 77.35nm
LPO 148.39 89 ePKP 21 10.40 3.7X
1.2s 47.60nm
MFF 148.71 85 ePKP 21 11.10 3.9X
1.2s 65.45nm
RJF 148.94 88 ePKP 21 11.40 3.8X
1.1s 51.30nm
Z 20s 1.50um 5.8Msz
LPF 148.96 82 ePKP 21 11.60 4.1X
1.1s 58.60nm
CAF 149.03 89 ePKP 21 12.20 4.4X
1.3s 97.50nm
GRR 149.25 81 ePKP 21 12.30 4.3X
LSF 149.48 87 ePKP 21 12.90 4.5X
FLN 149.66 81 ePKP 21 13.20 4.6X
1.4s 87.15nm
Z 21s 1.20um 5.7Msz
LDF 149.78 82 ePKP 21 13.50 4.7X
1.4s 69.70nm
TCF 149.89 87 ePKP 21 13.90 4.8X
1.3s 92.05nm
LBL 149.90 90 PKP 21 15.50 6.5X
PYM 150.05 89 PKP 21 15.90 6.5X
MAF 150.06 88 ePKP 21 14.30 5.0X
1.4s 39.20nm
BGF 150.41 87 ePKP 21 15.20 5.4X
1.2s 89.25nm
PLDF 150.53 89 PKP 21 17.00 6.9X
LRG 150.64 95 ePKP 21 16.20 6.0X
1.1s 6.30nm
Z 22s 1.42um 5.7Msz
LMR 150.65 96 ePKP 21 16.00 5.8X
1.2s 83.30nm
AVF 150.83 87 ePKP 21 15.90 5.5X
1.1s 46.40nm
FRF 150.87 95 ePKP 21 16.50 5.9X
1.2s 95.20nm
SMF 151.03 88 ePKP 21 16.50 5.8X
1.2s 58.00nm
SSF 151.06 87 ePKP 21 16.40 5.7X
1.6s 77.75nm
LBF 151.29 87 ePKP 21 17.00 5.8X
1.3s 43.30nm
LOR 151.38 87 ePKP 21 17.20 6.0X
1.2s 63.95nm
Z 20s 1.60um 5.8Msz
SBF 151.50 96 ePKP 21 17.60 6.0X
1.6s 199.00nm

PGF 151.58 99 ePKP 21 17.80 6.0X
1.2s 65.45nm
QUE 151.99 216 ePKP 21 18.50 5.6X
LPG 152.07 92 ePKP 21 19.90 7.2X
1.2s 47.60nm
LPL 152.07 92 ePKP 21 19.80 7.2X
1.0s 15.00nm
VITF 153.09 87 PKP 21 21.02 7.4X
LOMF 153.13 89 PKP 21 19.18 5.3X
HAU 153.20 87 ePKP 21 21.00 7.2X
1.2s 23.80nm
Z 22s 1.73um 5.8Msz
DOU 153.20 82 PKP 21 31.10 17.4X
e 22 15.00
BSF 153.37 88 ePKP 21 21.60 7.4X
1.2s 35.70nm
MOF 153.57 88 PKP 21 19.73 5.3X
ECH 153.77 87 PKP 21 19.59 4.9X
CDF 153.94 87 PKP 21 20.79 5.8X
WLS 153.98 87 PKP 21 18.56 3.6X
FEL 154.09 89 PKP 21 16.63 1.4
ABH 154.80 84 ePKP 21 27.17 11.2X
GRF 156.83 87 iPKPc 21 19.60 0.9
Z 20s 1.10um 5.7Msz
e 21 29.50
e 25 30.40
OHR 157.12 116 ePKP 21 14.00 -5.4X
MOX 157.48 86 iPKPc 21 21.00 1.6
1.7s 51.00nm
Z 25s 2.40um 5.9MszX
KHC 157.93 91 ePKP 21 23.10 3.0X
SKO 158.07 115 ePKP 21 24.00 3.6X
PRU 158.88 89 ePKP 21 31.50 10.5X
e 21 58.90
e 25 41.50
VKA 159.09 95 ePKP 21 22.00 0.7
e 21 31.00
i 22 01.70
ZST 159.50 96 ePKP 21 22.20 0.4
e 22 02.00
SRO 160.00 98 ePKP 21 31.20 8.9X
e 22 04.30
KSP 160.26 88 ePKP 21 27.50 5.0X
e 21 32.30
KRA 162.03 94 ePKP 21 23.10 -1.2
BMR 162.86 105 ePKPd 21 21.80 -3.4X
TAB 163.12 174 ePKP 21 35.00 9.0X
VRI 163.52 114 ePKPc 21 32.00 6.1X
NUR 166.12 56 ePKP 21 30.00 2.3X
S.D. = 1.0 on 83 of 159 obs.

MAR 09, 1991 01h 14m 21.75± 1.14s
34.875 N ± 9.3km 23.827 E ± 7.3km
DEPTH = 55.0 ± 11.4 km
4.2mb (16 obs.)
CRETE (370)
MD 4.3 (THE), 4.3 (HLW).

NPS 1.51 75 eP 14 49.70 2.8
VLI 1.98 339 eP 14 54.20 0.8
ATH 3.09 358 eP 15 10.20 1.0
VLS 4.20 323 eP 15 23.70 -1.1
YER 4.26 57 iPn 15 28.50 2.8
AGG 4.31 344 iP 15 26.62 0.3
CIN 4.39 50 eP 15 32.00 4.6X
IZM 4.47 37 ePn 15 34.10 5.5X
PRK 4.78 23 eP 15 32.60 -0.4
PAIG 5.04 359 iP 15 37.88 1.2
LIT 5.32 349 iP 15 41.31 0.7
EZN 5.33 21 ePn 15 33.30 -7.3X
IGT 5.42 330 ePd 15 41.60 -0.4
KZN 5.66 344 eP 15 46.20 0.8
KHL 5.73 51 iPn 15 46.50 0.1
KEK 5.80 328 eP 15 48.50 1.2
SOH 5.95 357 iP 15 47.61 -1.8
DST 6.08 38 eP 15 51.00 -0.2
GRG 6.18 350 iP 15 51.90 -0.6
FNA 6.21 343 iP 15 52.08 -1.0
eS 16 59.82
SRS 6.23 358 ePd 15 52.08 -1.3
SRS 6.23 358 iP 15 52.14 -1.2
KNT 6.32 354 iP 15 55.62 1.1
RDO 6.40 12 eP 15 56.00 0.3
VAY 6.51 352 ePn 15 58.00 0.8
i 16 02.40
OHR 6.67 340 ePn 15 58.00 -1.5
YLV 7.18 36 eP 16 14.00 7.4X

09d 01h

SKO	7.33	346	ePn	16	07.00	-1.6
CSS	7.81	87	e(P)	16	13.50	-1.8
HLW	8.09	126	eP	16	19.10	0.0
			eS	17	44.20	
BBTK	8.67	52	eP	16	31.00	3.8X
			e	17	08.00	
ZNT	9.71	103	eP	16	40.00	-1.5
			eS	18	20.00	
JVI	10.07	104	eP	16	45.50	-0.9
PRNI	10.44	113	eP	16	50.50	-1.0
MLR	10.73	8	ePc	16	54.00	-1.4
			e	21	26.00	
			e	26	00.00	
VRI	11.20	10	ePc	16	54.00	-7.7X
KBA	14.52	330	eP	17	55.00	9.3X
			e	21	24.00	
KHC	16.13	335	iPd	18	09.90	3.7X
	1.0s	10.00nm			3.9mb	
			i	18	18.40	
WET	16.39	334	P	18	12.80	3.3X
PRU	16.56	339	P	18	13.70	2.1
	1.1s	13.80nm			4.0mb	
			e	18	22.20	
KSP	16.87	343	eP	18	17.00	1.5
BRG	17.53	339	eP	18	24.20	0.6
	1.0s	20.00nm			4.2mb	
			i	18	33.40	
			i	21	24.70	
			i	21	32.40	
			i	22	08.00	
MOX	18.09	334	e(P)	18	35.00	4.4X
BSF	18.14	321	eP	18	30.20	-1.1
CLL	18.20	338	eP	18	31.00	-0.8
			e	21	21.00	
			i	22	06.00	
CDF	18.27	323	eP	18	32.00	-0.9
HAU	18.49	320	eP	18	35.40	0.0
LBF	19.21	315	eP	18	43.40	-0.6
	0.9s	4.90nm			3.8mb	
LOR	19.43	316	eP	18	44.70	-1.6
CAF	19.43	308	eP	18	48.10	1.7
SSF	19.52	315	eP	18	47.30	0.0
LPO	19.91	306	eP	18	51.80	0.4
TCF	19.92	311	eP	18	52.80	1.3
RJF	19.94	308	eP	18	52.70	1.0
LFF	20.30	307	eP	18	56.10	0.7
	0.6s	7.20nm			4.2mb	
ENN	20.52	326	eP	18	59.00	1.4
	0.9s	12.00nm			4.2mb	
			e	21	18.00	
			i	21	33.90	
DOU	20.71	323	Pc	19	00.30	0.8
	1.0s	44.40nm			4.7mb	
WTS	21.02	330	eP	19	04.00	1.3
	0.8s	7.00nm			4.0mb	
			e	21	20.00	
			e	21	27.00	
SNF	21.13	324	P	19	05.20	1.4
			e	21	31.50	
MFF	21.52	310	eP	19	09.00	1.2
	0.7s	13.25nm			4.4mb	
ECRI	21.89	299	eP	19	17.00	5.4X
LDF	22.40	315	eP	19	15.00	-1.6
TOL	22.66	291	ePKP	19	24.00	4.8X
			ePKKP	21	04.00	
			ePP	24	05.00	
			eSS	42	40.00	
LPF	22.69	313	eP	19	18.30	-1.0
	0.6s	8.10nm			4.3mb	
FLN	22.69	315	eP	19	17.80	-1.6
	0.6s	8.10nm			4.3mb	
GRR	22.74	314	eP	19	19.20	-0.6
GUD	22.81	293	eP	19	23.70	2.9X
HFS	26.12	348	eP	19	50.50	-1.5
	0.6s	5.60nm			4.3mb	
NB2	27.41	347	P	20	02.00	-1.8
	0.7s	1.80nm			3.8mb	
EKA	27.65	326	P	20	11.00	5.0X
	1.5s	21.00nm			4.5mb	
SOD	32.58	2	eP	20	48.00	-1.5
TIC	38.66	230	P	21	46.00	4.2X
KIC	38.71	229	P	21	46.20	4.0X
LIC	38.99	230	P	21	48.10	3.6X
GBA	52.60	100	Pc	23	34.30	2.0
	0.7s	2.60nm			4.4mb	
INK	75.74	352	eP	26	06.00	3.3X
KA	77.38	342	eP	26	13.10	1.2

	0.5s	0.60nm			3.9mb	
WRA	117.65	96	Pdiff	29	29.00	7.9X
	1.7s	1.10nm				
	S.D. = 1.3	on	59 of	78	obs.	

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* MAR 09, 1991 01h 36m 27.71± 0.78s
30.585 S ±10.3km 121.589 E ± 8.6km
DEPTH = 10.0km (geophysicist)
4.8mb (2 obs.)
WESTERN AUSTRALIA (590)
Some damage to older buildings and rock falls in several mineshafts at Kolgoorlie.

COOL	0.48	232	iPd	36	36.40	-1.2
KLB	3.43	252	iPd	37	20.90	-1.4
	0.3s	19.00nm				
BAL	4.21	268	iPd	37	31.20	-2.1X
	0.3s	13.00nm				
			iS	38	18.20	
NWAO	4.38	237	eP	37	43.00	7.2X
			eS	38	36.00	
MEKA	4.78	325	iPc	37	42.30	0.8
MUN	4.81	252	iPd	37	38.50	-3.4X
			eS	38	31.00	
RKG	5.20	227	eP	37	51.00	3.5X
FORR	5.61	94	eP	37	54.20	1.0
			eS	38	57.00	
WARB	6.25	47	eP	38	04.30	2.1X
	0.3s	50.00nm			5.8mb X	
			eS	39	14.40	
MBL	9 52	350	iPc	38	46.10	-1.7
	0.3s	13.00nm			5.9mb X	
			eS	40	29.40	
NANU	9.65	324	eP	38	49.40	-0.3
	0.3s	9.00nm			5.7mb X	
			eS	40	31.00	
ASPA	12.94	61	eP	39	31.20	-3.2X
	0.4s	13.90nm			5.5mb X	
			eS	41	47.30	
WB2	15.66	50	iPd	40	06.70	-3.3X
	0.3s	20.70nm			4.8mb	
			eS	42	51.80	
KNA	16.17	26	eP	40	14.30	-2.3
	0.4s	30.00nm			4.8mb	
STK	17.16	99	eP	40	45.20	16.1X
	1.0s	4.10nm				
			eS	43	45.50	
QIS	19.05	63	eP	40	51.00	-1.5
			eS	44	11.00	
PKI	67.37	325	P	47	26.80	1.1
GUN	67.42	326	P	47	27.60	1.6
DMN	67.55	325	P	47	28.20	1.5
KKN	67.61	325	P	47	28.00	0.9
GKN	68.10	325	P	47	31.20	1.1
YKA	132.16	31	ePKP	55	43.10	0.5
	0.6s	0.30nm				
	S.D. = 1.5	on	14 of	22	obs.	

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* MAR 09, 1991 02h 25m 04.23± 2.29s
7.216 S ±13.4km 129.036 E ±12.3km
DEPTH = 127.3 ± 22.5 km
4.8mb (7 obs.)
BANDA SEA (280)

MTN	5.96	160	eP	26	33.00	1.5
KNA	8.49	182	eP	27	05.20	-0.5
	0.3s	34.00nm			5.5mb	
			eS	28	30.00	
MBL	16.47	212	eP	28	48.20	-1.0
	0.3s	5.00nm			4.3mb	
			eS	31	40.00	
QIS	16.75	143	eP	28	52.00	-0.7
	0.2s	14.00nm			4.9mb	
			eS	31	48.00	
ASPA	17.01	165	eP	28	54.60	-1.3
	0.6s	44.30nm			4.9mb	
			eS	31	50.50	
WARB	19.00	187	eP	28	54.00	-24.7X
			e	29	18.00	
NANU	20.05	219	eP	29	31.00	1.5
	0.3s	7.00nm			4.5mb	
FORR	23.53	182	eP	30	03.50	-0.3
	0.4s	47.00nm			5.3mb	
OLP	24.08	145	iPd	30	08.60	-0.6
			i	30	10.00	
RMO	26.82	138	eP	30	34.00	-0.5

STK	27.19	156	eP	30	54.20	16.4X
	0.6s	6.60nm				
BRS	30.16	135	iPc	31	04.30	-0.1
COO	31.61	140	eP	31	18.00	0.9
TOO	33.71	156	iPc	31	37.00	1.7
CHTO	39.36	312	eP	32	24.80	1.8
	1.0s	2.00nm			3.8mb	
GUN	54.38	312	P	34	20.00	-0.7
PKI	54.54	311	P	34	21.80	-0.1
KKN	54.76	311	P	34	22.40	-0.9
DMN	54.79	311	P	34	23.50	-0.1
GKN	55.35	311	P	34	27.00	-0.5
CNCB	150.79	145	PKPd	44	46.40	7.6X
PPD	150.93	179	ePKP	44	44.30	6.1X
LPB	150.95	144	PKP	44	45.00	6.2X
ZOBO	151.14	144	PKP	44	46.70	7.4X
	S.D. = 1.1	on	18 of	24	obs.	

MAR 09, 1991 04h 19m 00.94± 1.11s
13.388 N ± 5.7km 145.486 E ± 5.9km
DEPTH = 59.0 ± 9.5 km
5.1mb (23 obs.) 4.8Msz (6 obs.)
MARIANA ISLANDS (216)
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 15S, 29C
Centroid Location:
Origin Time 04:19: 0.2 0.7
Lat 13.56N 0.08 Lon 146.05E 0.07
Dep 15.0 FIX Half-duration 1.8
Moment Tensor; Scole 10**16 Nm
Mrr= 7.92 0.60 Mtt= 0.85 0.87
Mff=-8.76 0.73 Mrt= 1.32 2.18
Mrf= 8.62 2.65 Mtf=-7.05 0.60
Principal Axes:

T	Val= 11.83	Plg=63	Azm=249
N	3.61	18	18
P	-15.44	20	115

Best Double Couple:Mo=1.4*10**17
NP1:Strike=233 Dip=30 Slip= 129
NP2: 10 67 70

GUA	0.58	285	iPd-	19	14.10	0.3
			e(S)	19	24.60	
PJG	0.63	288	iPd	19	14.60	0.2
RAB	18.68	159	e(P)	23	12.00	-5.0X
MAP	21.26	264	eP	23	45.00	0.6
	1.0s	5.00nm			3.8mb X	
KAGJ	22.23	325	eP	23	56.20	2.3
WKYJ	22.60	338	P	23	58.70	1.1
PMG	22.71	176	eP	24	02.00	3.3X
TKSJ	22.99	335	eP	24	02.70	1.4
IIDJ	23.03	344	P	24	01.00	-0.8
CVP	23.19	284	eP	24	07.00	3.6X
KAKJ	23.22	349	P	24	02.30	-1.2
KUMJ	23.30	327	eP	24	05.30	0.9
CHJJ	23.31	347	P	24	05.00	0.6
TSRJ	23.66	340	P	24	07.10	-0.7
QCP	23.71	276	eP	24	15.00	6.5X
PGP	23.86	273	ePc	24	10.00	0.1
MAT	23.96	345	eP	24	10.00	-0.8
	1.4s	132.56nm			5.2mb	
Z	20s	1.06um			4.3Msz	
			eS	28	27.00	
MTMJ	24.10	345	P	24	11.40	-0.9
BAG	24.25	280	eP	24	12.00	-1.9
YONJ	24.27	335	eP	24	14.20	0.4
SHNJ	24.42	330	eP	24	09.00	-6.2X
NIIJ	24.45	347	P	24	14.30	-1.2
ANP	25.43	301	e(P)	24	24.00	-1.0
SVO	26.53	147	P	24	35.00	-0.1
HNR	26.84	147	eP	24	44.00	6.1X
			eS	29	16.00	
SSE	28.46	312	Pc	24	52.00	-0.5
	1.0s	12.00nm			4.5mb	
Z	20s	2.30um			4.8Msz	
N	12s	0.80um				
E	12s	0.60um				
			i	25	01.50	
			PP	25	47.00	
			eS	29	20.00	
			sS	30	00.00	
QIS	34.22	190	eP	25	42.00	-1.2
WB2	34.89	199	iPc	25	47.20	-1.7
	0.5s	11.60nm			5.1mb	
WRA	34.89	199	P	25	45.00	-3.9X
	1.0s	10.30nm			4.7mb	

BJI	36.97	321	eP	26	06.00	-0.3	
	1.5s		39.00nm			5.1mb	
	Z 20s		1.25um			4.7Msz	
			e	31	49.00		
ASPA	38.53	197	iPc	26	18.10	-1.5	
	1.5s		13.40nm			4.6mb	
RMO	39.76	175	eP	26	28.50	-1.2	
KMI	41.84	293	P+	26	50.00	2.8	
	Z 20s		1.80um			4.9Msz	
			S	33	14.00		
MBL	42.59	217	eP	26	53.00	0.0	
LZH	43.61	309	iPc	27	02.20	0.8	
	1.5s		119.00nm			5.4mb	
	Z 18s		1.79um			5.0Msz	
	E 15s		0.81um				
			pP	27	21.00	77kmX	
			sP	27	30.00		
			PP	28	49.50		
			i	29	21.50		
			eS	33	30.00		
			sS	33	52.00		
SNG	44.53	267	eP	27	10.00	1.1	
IPM	44.71	263	ePd	27	11.60	1.2	
CHG	44.94	283	eP	27	13.00	0.8	
CHTO	44.94	283	eP	27	12.20	0.0	
	1.0s		5.25nm			4.3mb	
			pP	27	21.90	32kmX	
			PcP	28	54.30		
STK	45.16	185	eP	27	30.10	16.5X	
	1.7s		4.30nm				
KHT	45.44	278	eP	27	17.30	1.2	
NANU	46.24	220	eP	27	24.00	1.7	
MEKA	47.62	213	eP	27	32.00	-1.1	
GUN	57.12	295	P	28	44.40	-0.1	
PKI	57.53	294	P	28	46.60	-0.7	
KKN	57.65	294	P	28	48.20	0.2	
DMN	57.80	294	P	28	49.60	0.5	
GKN	58.22	295	P	28	51.80	-0.2	
SDN	58.97	33	e(P)	28	56.80	0.3	
ILT	59.23	15	iPc	28	56.00	-2.1	
	1.3s		20.00nm			5.1mb	
	Z 20s		0.64um			4.7Msz	
	E 20s		0.30um				
			i	29	04.40		
			iS	36	56.00		
			e	38	44.00		
SVW	63.56	28	eP	29	26.90	-0.5	
TTA	64.07	26	eP	29	29.60	-1.2	
	1.0s		180.00nm			6.0mb	
HYB	64.37	283	eP	29	33.00	-0.4	
NDI	64.76	296	eP	29	34.50	-1.2	
GBA	65.95	279	P	29	43.60	0.1	
IMA	66.20	23	eP	29	43.80	-0.7	
	1.1s		9.40nm			4.7mb	
KOD	66.48	275	eP	29	47.30	0.0	
PMR	66.68	28	eP	29	45.60	-1.8	
	1.3s		48.80nm			5.3mb	
BRW	67.34	17	eP	29	50.60	-0.9	
KLU	68.14	29	P	29	55.50	-1.3	
FBA	68.15	25	P	29	54.00	-2.7	
	1.2s		25.38nm			5.1mb	
TOA	68.16	28	eP	29	58.70	1.8	
POO	68.68	285	eP	29	54.50	-6.3X	
QUE	73.59	298	eP	30	31.00	0.7	
INK	74.32	22	ePc	30	31.60	-1.9	
MBC	78.32	14	ePc	30	55.00	-0.8	
	1.0s		15.00nm			4.9mb	
BMW	81.30	44	P	31	14.70	2.2	
LON	82.21	44	P	31	20.40	3.2X	
YKA	82.76	27	eP	31	18.00	-1.6	
	0.6s		3.80nm			4.6mb	
WDC	82.90	50	eP	31	26.00	5.2X	
PNT	83.13	41	eP	31	23.00	1.2	
	1.0s		24.00nm			5.1mb	
LBFM	83.23	49	P	31	20.00	-2.8	
BRK	83.66	53	eP	31	26.50	1.8	
BKS	83.68	53	eP	31	26.80	2.0	
	1.2s		94.00nm			5.7mb	
ORV	83.89	51	eP	31	30.50	4.6X	
GCC	84.04	53	eP	31	27.30	0.6	
MHC	84.26	53	eP	31	29.90	2.0	
NEW	84.98	42	P	31	31.50	0.3	
	1.1s		34.57nm			5.4mb	
CMB	85.08	52	eP	31	34.00	2.1	
FRI	85.84	53	eP	31	36.30	0.7	
EDM	85.96	36	ePd	31	36.00	0.0	
SYP	86.20	56	eP	31	18.00	-19.7X	
KVN	86.58	51	P	31	39.90	0.4	
ABL	86.73	55	P	31	41.80	1.4	
KEV	86.90	342	iP	31	40.20	0.0	
	1.0s		36.00nm			5.5mb	
TNP	87.49	52	P	31	43.80	-0.2	
	0.8s		4.17nm			4.7mb	
MWC	87.81	55	eP	31	47.00	1.4	
SBB	87.88	55	eP	31	45.00	-0.7	
SES	88.19	39	eP	31	46.00	-0.8	
SOD	88.26	340	iP	31	46.00	-0.8	
RVR	88.42	56	eP	31	49.00	0.8	
GSC	88.53	54	eP	31	50.00	1.1	
LRM	88.73	43	eP	31	49.70	-0.1	
PLM	89.00	56	eP	31	53.00	1.7	
BAR	89.33	57	eP	31	53.00	0.4	
TPC	89.45	55	eP	31	53.00	-0.2	
KAF	91.15	336	eP	31	59.00	-1.4	
MSU	91.17	50	P	32	01.00	-0.3	
FFC	91.66	32	eP	32	03.00	0.1	
	1.1s		22.00nm			5.5mb	
NUR	92.69	335	eP	32	03.00	-4.5X	
ALQ	96.70	52	e(P)	32	28.00	1.3	
APO	96.84	338	eP	32	23.10	-3.5X	
	1.2s		33.00nm			5.7mb	
NB2	97.45	339	P	32	27.20	-2.2	
	1.3s		11.90nm			5.3mb	
BCAO	124.44	285	iPKPd	37	57.00	0.9	
	0.8s		14.00nm				
			i	38	09.10		
KIC	144.51	302	PKPc	38	32.42	-0.9	
TIC	144.59	302	PKPc	38	32.52	-0.9	
LIC	144.83	302	PKPc	38	33.56	-0.3	
ZOBO	147.40	99	PKP	38	41.00	2.3X	
	1.2s		22.30nm				
			LR	27	34.00		
LPB	147.43	100	ePKP	38	40.00	1.4	
CNCB	147.53	100	PKP	38	41.00	2.1X	
SIV	154.19	99	ePKP	38	49.00	0.9	
	S.D. = 1.2		on 94 of 111 obs.				

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* MAR 09, 1991 04h 24m 20.34± 0.83s
29.929 S ± 9.1km 179.134 W ±11.4km
DEPTH = 329.9 ± 9.5 km
4.8mb (7 obs.)
KERMADEC ISLANDS REGION (177)

RAO	1.26	58	P	25	04.80	-0.6	
			S	25	12.00		
HBZ	7.94	195	eP	26	16.60	2.4	
	0.3s		242.00nm			5.8mb	
PUZ	8.41	194	P	26	21.40	1.5	
			e	26	27.60		
			eS	28	00.30		
NOZ	8.98	194	eP	26	29.00	2.3	
WLZ	9.03	208	P	26	32.90	5.6X	
CNZ	10.23	204	eP	26	45.70	3.5X	
PGZ	11.30	198	eP	26	55.00	0.0	
	0.4s		476.00nm			6.2mb X	
			e	26	57.40		
			e	27	00.00		
MNG	11.53	201	eP	26	56.20	-1.6	
			e	27	01.30		
			eS	29	06.20		
MTW	12.02	200	eP	27	02.60	-1.1	
CAW	12.11	201	eP	27	03.70	-1.0	
BLW	12.22	200	eP	27	06.50	0.4	
MRW	12.34	202	eP	27	06.00	-1.4	
			eS	29	25.80		
MOW	12.34	200	eP	27	06.30	-1.2	
WEL	12.36	202	eP	27	09.90	2.1	
TCW	12.47	204	P	27	08.70	-0.3	
			eS	29	29.50		
THZ	13.45	206	eP	27	20.00	-0.9	
			eS	29	49.60		
KHZ	13.79	203	eP	27	23.80	-1.0	
			e	27	26.90		
			eS	29	56.90		
LTZ	14.57	206	eP	27	32.60	-1.2	
			eS	30	12.30		
DZM	15.13	298	iPd	27	39.90	-0.1	
STK	33.63	256	eP	30	53.60	21.1X	
	0.5s		11.10nm				
ASPA	42.15	267	iPc	31	43.80	0.7	
	0.4s		25.10nm			4.8mb	
			iS	37	37.70		
WB2	43.09	272	iPc	31	50.40	-0.2	
	0.5s		18.30nm			4.6mb	
			eScP	36	55.80		
			iS	37	50.10		
WRA	43.10	272	P	31	50.00	-0.7	
	0.5s		13.00nm			4.4mb	
FORR	45.17	255	eP	32	08.00	1.1	
	0.4s		30.00nm			4.9mb	
MBL	55.21	264	iPd	33	22.00	-0.2	
	0.5s		17.00nm			4.7mb	
NANU	58.38	261	eP	33	45.50	1.3	
	0.5s		20.00nm			4.8mb	
SYP	84.99	45	eP	36	20.00	-0.2	
MWC	85.99	47	eP	36	31.00	5.8X	
PLM	86.19	48	eP	36	27.00	0.8	
SBB	86.43	46	eP	36	27.00	-0.2	
TPC	87.19	48	eP	36	31.00	0.2	
GSC	87.47	46	eP	36	32.00	-0.2	
FRB	125.48	31	ePKP	42	41.00	-2.0X	
KEV	137.44	347	ePKP	43	04.00	-1.6	
KAF	143.77	340	ePKP	43	13.00	-4.1X	
NUR	145.53	339	ePKP	43	19.00	-1.1	
UPP	148.00	344	iPKP	43	26.20	2.2X	
			i	43	28.70		
NB2	148.13	350	PKP	43	26.70	2.4X	
	0.7s		9.30nm				
HFS	148.58	348	ePKP	43	27.00	2.0	
	0.9s		19.30nm				
BCAO	149.63	217	iPKPc	43	35.10	7.1X	
	0.6s		11.00nm				
	S.D. = 1.3		on 31 of 40 obs.				

& MAR 09, 1991 06h 38m 02.30s
58.547 N 143.576 W
DEPTH = 10.0km (geophysicist)
3.2mb (1 obs.)
GULF OF ALASKA (15)
<AEIC>.

YAH	2.05	26	iP	38	32.44	-5.0	
			eS	38	54.99		
TGL	2.25	9	eP	38	34.97	-5.2	
PNL	2.43	61	eP	38	37.36	-5.4	
BCPM	2.47	53	eP	38	38.42	-4.8	
MTU	2.54	306	eP	38	39.45	-4.8	
BALM	2.57	13	iP	38	39.52	-5.3	
			S	39	09.29		
HQN	2.60	68	eP	38	39.71	-5.3	
			S	39	09.42		
CTGM	2.68	24	iP	38	41.11	-5.3	
			eS	39	13.55		
KNIM	2.79	312	eP	38	42.28	-5.5	
			S	39	13.07		
GLB	2.91	358	iP	38	44.03	-5.5	
			eS	39	15.29		
VZW	2.94	330	eP	38	44.46	-5.4	
VLZ	2.94	333	eP	38	44.66	-5.2	
KLU	3.18	339	eP	38	48.00	-5.4	
TZL	3.63	346	eP	38	54.72	-5.0	
KNK	3.78	322	eP	38	57.02	-4.8	
TOA	3.80	341	eP	38	55.55	-6.6	
PLRM	4.13	320	eP	39	02.33	-4.4	
GHO	4.20	323	eP	39	04.49	-3.3	
SKT	5.25	314	eP	39	16.30	-6.3	
YKA	14.73	62	eP	41	33.90	1.7	
	1.0s		0.80nm			3.2mb	
	20 obs. associated						

? MAR 09, 1991 06h 39m 55.70± 8.10s
19.096 N ±60.2km 66.644 W ±11.5km
DEPTH = 10.0km (geophysicist)
PUERTO RICO REGION (90)

MCP	0.81	213	P	40	11.50	0.2	
PORP	1.04	180	P	40	15.50	0.2	
LPR	1.07	137	P	40	16.00	0.1	
			S	40	30.20		
MGP	1.16	201	P	40	17.10	-0.3	
			S	40	32.20		
CPD	1.26	147	P	40	19.00	-0.1	
			S	40	34.20		
	S.D. = 0.3		on 5 of 5 obs.				

MAR 09, 1991 08h 12m 07.61± 0.61s
6.909 N ± 8.2km 73.106 W ± 7.0km
DEPTH = 159.1 ± 8.3 km
4.7mb (3 obs.)
NORTHERN COLOMBIA (99)

09d 08h

FUQ 1.56 204 eP 12 18.00 -21.2X
BOG 2.46 203 iPc 12 50.00 0.5
iS 13 21.00
SDV 3.14 51 iPnd 12 59.90 2.1
iSn 13 37.30
TOV 4.35 49 ePn 13 14.60 1.1
iSn 14 04.80
CEOS 5.18 66 iP 13 23.60 -0.8
iS 14 22.20
UPA 6.69 288 iPc 13 43.20 -1.4
0.6s 33.33nm 4.9mb X
OLLA 6.96 63 iP 13 47.20 -1.1
ECO 6.96 291 iPc 13 47.30 -1.0
i 15 06.20
PSO 7.07 217 eP 13 50.50 0.4
CAR 7.08 59 iP 13 49.30 -0.6
LLAV 7.16 60 iP 13 50.40 -0.7
iS 15 09.40
ZOBO 23.55 168 P 17 06.00 0.6
i 17 37.00
CNCB 24.11 168 P 17 11.00 0.3
i 17 44.00
SCH 48.04 5 eP 20 34.00 1.6
0.6s 17.00nm 4.9mb
YKA 63.19 340 eP 22 20.30 -0.3
0.5s 6.00nm 4.8mb
LIC 67.58 86 P 22 48.00 -1.5
KIC 67.85 86 P 22 49.80 -1.4
INK 72.95 340 eP 23 22.00 1.1
MBC 73.72 350 ePc 23 26.50 1.2
0.5s 4.00nm 4.4mb
WRA 150.39 241 PKP 31 41.00 4.1X
0.4s 2.50nm
S.D. = 1.3 on 18 of 20 obs.

MAR 09, 1991 08h 26m 44.12± 0.50s
60.958 N ± 9.4km 166.827 E ± 8.3km
DEPTH = 10.0km (geophysicist)
4.8mb (15 obs.) 4.0Msz (1 obs.)
EASTERN SIBERIA (671)

ILT 9.34 36 eP 29 01.00 -0.6
e 29 03.80
INK 25.58 48 eP 32 15.00 0.7
MAT 30.41 230 (P) 32 59.00 0.6
0.8s 7.46nm 4.6mb
YKA 35.12 52 eP 33 38.40 -0.6
0.7s 2.00nm 4.1mb
BJI 37.17 259 eP 33 57.00 0.4
1.0s 18.00nm 4.8mb
TIY 40.80 261 eP 34 28.40 1.5
GTA 45.61 274 eP 35 06.20 0.2
1.0s 10.00nm 4.7mb
LZH 46.26 267 eP 35 12.00 0.8
1.2s 26.00nm 5.1mb
Z 20s 0.19um 4.0Msz
SOD 48.72 341 eP 35 43.00 13.1X
NUR 55.40 338 eP 36 20.00 -0.1
NB2 56.89 346 P 36 30.60 -0.3
0.8s 7.40nm 4.8mb
SCH 57.03 34 eP 36 32.00 0.1
HFS 57.46 344 eP 36 34.60 -0.3
0.9s 7.30nm 4.7mb
GUN 61.68 277 P 37 04.00 -0.8
PKI 62.19 277 P 37 07.26 -1.0
GKN 62.21 278 P 37 07.22 -0.9
DMN 62.31 277 P 37 07.68 -1.2
CHG 63.01 260 eP 37 13.00 -0.3
CHTO 63.01 260 iP 37 13.00 -0.3
0.9s 7.89nm 4.9mb
CLL 66.13 342 eP 37 36.00 2.9X
HAU 70.25 346 eP 37 58.90 0.1
LDF 70.30 351 eP 37 58.90 -0.2
1.0s 16.00nm 5.1mb
BSF 70.37 346 eP 37 59.60 -0.1
GRR 70.56 351 eP 38 00.80 0.2
LPF 70.92 351 eP 38 03.10 0.2
LOR 71.25 348 eP 38 05.00 0.1
1.1s 19.55nm 5.1mb
SSF 71.49 348 eP 38 06.60 0.3
1.0s 9.00nm 4.8mb
AVF 71.78 348 eP 38 08.30 0.3
0.9s 6.55nm 4.7mb
TCF 72.38 349 eP 38 11.90 0.2
1.0s 9.00nm 4.8mb
LSF 72.48 349 eP 38 12.60 0.3
LPL 72.66 345 eP 38 14.30 0.7
LPG 72.67 345 eP 38 14.70 1.0
1.1s 12.20nm 4.9mb
HY8 74.12 277 eP 38 21.50 -0.7
WRA 84.76 210 P 39 19.00 -0.3
1.0s 2.90nm 4.5mb
S.D. = 0.6 on 32 of 34 obs.

• MAR 09, 1991 10h 57m 22.59± 0.66s
56.079 S ±13.9km 27.360 W ±14.0km
DEPTH = 33.0km (normal)
4.9mb (2 obs.)
SOUTH SANDWICH ISLANDS REGION (153)

SPA 34.10 180 iPc 04 06.90 1.0
1.0s 16.50nm 4.9mb
PPD 38.35 323 eP 04 43.00 1.0
BAO 43.34 330 eP 05 24.30 1.1
SIV 47.53 314 Pc 05 55.60 -0.9
CNCB 49.79 305 P 06 15.90 1.3
LPB 50.09 305 P 06 15.00 -1.7
ZOBO 50.33 305 P 06 18.90 0.2
LIC 64.76 25 P 08 00.00 0.2
KIC 64.96 25 P 08 01.20 0.1
TIC 65.17 25 P 08 02.80 0.4
BCAO 71.01 49 iPc 08 39.10 0.2
0.6s 6.00nm 4.8mb
FRB 123.64 339 ePKP 16 16.00 -0.7
KAF 125.07 28 ePKP 16 16.00 -1.5
MBC 143.97 336 ePKPc 16 51.70 -2.6X
0.8s 8.00nm
INK 145.76 321 ePKP 16 57.00 -0.6
pP 17 21.00
SLKM 150.47 303 e(PKP) 17 09.50 4.2X
PDB 152.17 300 ePKP 17 13.00 5.2X
S.D. = 1.0 on 14 of 17 obs.

• MAR 09, 1991 11h 43m 20.78± 1.23s
30.424 S ± 8.4km 71.113 W ±13.2km
DEPTH = 10.0km (geophysicist)
NEAR COAST OF CENTRAL CHILE (135)

RTRS 1.45 80 ePd 43 44.90 -2.1
ZON 2.37 119 eP 44 01.00 0.6
RTLL 2.45 112 ePc 44 02.70 1.3
ROCH 2.54 178 eP 44 02.30 -0.7
CFA 2.74 116 e(P) 44 06.00 0.4
eS 44 48.40
PEL 2.74 172 eP 44 05.50 -0.1
iS 44 49.50
PCH 3.23 171 eP 44 12.60 0.0
iS 45 02.20
ANT 6.72 5 eP 45 02.50 0.6
S.D. = 1.2 on 8 of 8 obs.

? MAR 09, 1991 11h 45m 23.99±14.91s
29.107 S ±98.5km 72.433 W ±77.1km
DEPTH = 33.0km (normal)
OFF COAST OF CENTRAL CHILE (134)

RTRS 2.80 113 iPd 46 07.80 0.5
JACH 3.90 157 iP 46 23.60 0.4
i 47 01.00
ROCH 4.04 163 eP 46 25.00 -0.3
iS 47 08.00
ZON 4.06 128 e(P) 46 25.00 -0.4
RTLL 4.08 124 e(P) 46 25.70 -0.1
PEL 4.29 160 eP 46 30.00 1.3
CFA 4.40 126 eP 46 29.70 -0.5
PCH 4.79 160 eP 46 35.20 -0.6
e 47 21.50
LNV 4.91 170 iP 46 37.00 -0.4
iS 47 28.00
i 47 34.00
S.D. = 0.7 on 9 of 9 obs.

MAR 09, 1991 12h 41m 04.02± 0.49s
41.207 N ± 4.7km 23.147 E ± 4.2km
DEPTH = 10.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)
MD 2.8 (THE).

KNT 0.19 257 iPc 41 08.53 0.2
iS 41 11.36
SRS 0.35 105 iPc 41 11.01 -0.2
eS 41 15.42
SOH 0.42 158 ePd 41 12.40 -0.1
VAY 0.45 285 ePg 41 13.30 0.1
MMB 0.58 49 ePgc 41 15.00 -0.8
THE 0.59 194 iPd 41 15.73 -0.2
iS 41 23.62
GRG 0.62 246 iPc 41 16.26 -0.2
eS 41 23.78
RZN 1.27 67 iPc 41 15.00 -12.8X
PAIG 1.34 162 ePc 41 28.98 0.3
VTS 1.38 2 iPg 41 29.00 -0.5
PLD 1.47 52 eP 41 32.00 1.4
S.D. = 0.7 on 10 of 11 obs.

% MAR 09, 1991 12h 42m 48.07± 1.06s
39.230 N ± 9.2km 27.825 E ±12.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

DST 0.73 59 ePg 43 01.40 -1.0
eSg 43 16.40
IZM 0.94 208 ePn 43 05.90 -0.1
BNT 1.13 4 iPn 43 08.30 -0.9
KGT 1.28 342 ePn 43 12.30 0.4
IZI 1.68 48 ePn 43 19.30 1.5
S.D. = 1.5 on 5 of 5 obs.

MAR 09, 1991 13h 15m 16.29± 1.14s
39.844 N ± 8.5km 23.335 E ± 7.8km
DEPTH = 0.0km (geophysicist)
AEGEAN SEA (365)
MD 2.8 (THE).

PAIG 0.28 72 iPc 15 22.10 0.3
LIT 0.70 292 ePc 15 30.57 0.3
iS 15 42.66
THE 0.84 340 ePc 15 33.32 0.3
SOH 0.98 1 ePd 15 35.00 -0.8
eS 15 49.90
AGG 1.13 224 ePd 15 38.00 -0.4
SRS 1.29 9 ePd 15 40.60 -0.5
eS 15 59.04
GRG 1.32 328 ePc 15 40.42 -1.2
KNT 1.36 346 iPd 15 41.46 -0.8
eS 16 00.28
VAY 1.59 339 ePn 15 48.50 2.8
S.D. = 1.4 on 9 of 9 obs.

% MAR 09, 1991 14h 02m 33.12± 2.51s
43.873 N ±27.6km 5.987 W ± 9.0km
DEPTH = 10.0km (geophysicist)
SPAIN (377)
mbLg 3.0 (MDD).

EMON 1.07 246 iP 02 54.00 0.7
eS 03 06.60
ERUA 1.70 210 eP 02 54.00 -9.0X
eS 03 07.40
STS 2.11 243 eP 03 08.00 -1.0
eS 03 31.20
ECRI 2.84 115 eP 03 19.70 0.4
eS 03 52.00
GUD 3.50 157 eP 03 28.00 -0.8
eS 04 02.00
EPLA 3.80 181 eP 03 33.80 0.7
eS 04 09.00
S.D. = 1.2 on 5 of 6 obs.

MAR 09, 1991 14h 43m 01.47± 1.31s
37.281 N ± 9.9km 15.312 E ± 8.9km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MEU 0.35 240 P 43 09.00 0.2
iSg 43 14.00
MNO 0.81 323 P 43 17.40 0.0
eSg 43 28.20
ATN 0.89 8 P 43 18.60 0.1
eSg 43 30.80
MSI 0.94 12 P 43 19.30 -0.1
eSg 43 33.20
SOI 0.99 37 P 43 20.10 0.0
eSg 43 34.60
GIB 1.24 305 P 43 24.80 0.2
FAI 1.31 270 P 43 25.20 -0.4
eSg 43 41.20
S.D. = 0.3 on 7 of 7 obs.

• MAR 09, 1991 15h 54m 55.82± 2.38s
1.009 N ±16.4km 124.037 E ±14.6km

DEPTH = 93.0 ± 24.9 km
4.6mb (4 obs.)
MINAHASSA PENINSULA (265)

AAI	6.25	138	e(P)	56 27.00	-0.2
MKS	7.69	216	iPc	56 46.70	-0.2
OIS	26.30	145	ePc	00 25.20	0.6
	0.8s	21.00nm		4.7mb	
ASPA	26.34	159	iPd	00 26.10	1.1
	1.1s	14.20nm		4.4mb	
CHG	30.31	307	eP	01 02.50	1.8
CHTO	30.31	307	eP	01 02.10	1.4
	1.0s	2.25nm		3.9mb	
BRS	39.51	138	e(PKP)	02 18.00	-1.2
LZH	39.61	334	eP	02 20.50	0.4
	1.5s	23.00nm		4.8mb	
		i		02 28.00	
		i		02 39.00	
GUN	45.26	310	P	03 06.32	0.0
PKI	45.46	309	P	03 06.82	-1.1
DMN	45.71	309	P	03 08.36	-1.5
GKN	46.26	309	P	03 13.46	-0.6
HYB	47.59	293	eP	03 24.00	-0.5
	S.D. = 1.2	on	13 of	13 obs.	

• MAR 09, 1991 16h 07m 09.33± 2.55s
49.284 N ± 9.0km 128.980 W ±22.9km
DEPTH = 10.0km (geophysicist)
3.8mb (2 obs.)
VANCOUVER ISLAND REGION (25)

MCW	4.09	96	P	08 13.77	0.5
HDW	4.27	110	P	08 14.85	-1.0
MBW	4.68	93	P	08 22.09	0.2
JCW	4.79	100	P	08 22.87	-0.4
RPW	5.00	97	P	08 25.62	-0.6
HTW	5.01	104	P	08 27.32	0.9
RMW	5.12	108	P	08 27 81	-0.1
GSM	5.23	111	P	08 28.49	-1.1
KOSW	5.37	119	P	08 32.00	0.5
FMW	5.43	113	P	08 31.96	-0.5
LON	5.44	115	P	08 32.10	-0.3
JLK	5.57	122	P	08 35.01	0.6
WPW	5.62	115	P	08 35.55	0.5
GLK	5.65	116	P	08 35.84	0.3
TWW	5.83	109	P	08 38.68	0.7
ASR	5.89	119	P	08 39.29	0.5
TBM	5.99	108	P	08 40.37	0.2
ETW	6.00	103	P	08 40.10	-0.2
EBG	6.11	110	P	08 42.02	0.1
PNT	6.13	86	eP	08 42.00	0.0
	0.5s	6.00nm		4.6mb X	
WTV	6.21	101	P	08 43.73	0.5
MDW	6.74	110	P	08 50.31	-0.5
OD2	7.10	102	P	08 53.82	-2.0
SES	11.64	78	eP	09 59.00	0.6
YKA	15.44	26	eP	10 47.90	-0.6
	0.8s	1.40nm		3.3mb	
FFC	17.43	62	eP	11 15.00	1.1
	0.9s	23.00nm		4.3mb	
	S.D. = 0.7	on	26 of	26 obs.	

& MAR 09, 1991 16h 13m 08.59s
59.907 N 152.368 W
DEPTH = 74.2km
SOUTHERN ALASKA (2)
<AEIC>.

HOM	0.44	124	iPd	13 21.14	-0.3
			eS	13 30.81	
RED	0.55	339	iPc	13 21.91	-0.7
			eS	13 32.39	
NNL	0.56	75	iPc	13 22.92	0.4
XLV	0.56	144	ePd	13 21.61	-0.9
			eS	13 32.44	
RSO	0.59	341	ePc	13 22.51	-0.6
RS2	0.59	341	iPc	13 22.54	-0.6
			S	13 33.36	
REF	0.61	344	iPc	13 22.67	-0.6
			iS	13 33.76	
RDN	0.64	342	iPc	13 22.93	-0.6
			iS	13 33.60	
RDT	0.67	358	iPc	13 22.99	-0.8
CNPM	0.69	123	iPd	13 23.23	-0.7
			eS	13 34.53	
NCT	0.71	337	ePd	13 23.71	-0.6
			eS	13 35.56	
AUE	0.75	223	iPd	13 23.89	-0.7
BRLK	0.76	100	ePc	13 24.11	-0.6
			eS	13 35.98	
AUH	0.77	226	eP	13 24.42	-0.5
			eS	13 35.41	
AUI	0.79	224	ePd	13 24.26	-0.7
			eS	13 35.67	
PDB	0.93	263	iPd	13 25.61	-1.1
			eS	13 39.02	
NKA	1.01	33	ePc	13 28.83	1.2
CDD	1.18	214	ePc	13 28.94	-0.9
SLKM	1.23	60	ePc	13 29.68	-0.9
MCNL	1.24	235	ePd	13 29.25	-1.4
			eS	13 44.87	
SPU	1.29	7	iPc	13 30.86	-0.5
CKL	1.29	1	iPc	13 31.11	-0.4
SYI	1.30	181	ePc	13 31.05	-0.4
BGL	1.36	360	iPc	13 32.04	-0.3
CRP	1.37	4	ePc	13 32.46	0.0
			eS	13 50.40	
SEW	1.48	81	eP	13 33.78	0.0
NCG	1.51	4	ePc	13 33.95	-0.3
SUA	1.75	26	iPc	13 37.44	-0.2
PMS	1.93	45	eP	13 39.47	-0.5
SVW	2.01	308	iPd	13 39.68	-1.4
SKT	2.12	11	ePc	13 41.80	-0.8
			eS	14 07.34	
PWA	2.13	34	eP	13 42.61	-0.1
LTI	2.27	85	eP	13 43.24	-1.4
PLRM	2.32	42	ePc	13 43.87	-1.4
KNIM	2.36	77	ePc	13 43.24	-2.6
MTU	2.37	86	iPc	13 44.96	-1.1
KNK	2.45	50	ePc	13 45.44	-1.7
GHO	2.52	41	eP	13 46.66	-1.5
CUT	2.70	21	eP	13 50.12	-0.5
GLI	2.79	67	eP	13 48.70	-3.2
VZW	3.10	66	ePd	13 53.43	-2.8
VLZ	3.23	65	eP	13 55.10	-2.8
KLU	3.55	61	ePc	13 59.93	-2.5
TOA	3.74	51	eP	14 03.13	-2.0
RND	3.89	24	eP	14 06.14	-1.1
TZL	4.01	55	eP	14 06.13	-2.7
SDG	4.22	49	eP	14 09.62	-2.2
GLB	4.48	66	ePc	14 12.15	-3.4
PAX	4.52	44	eP	14 14.21	-1.9
	49 obs. associated				

% MAR 09, 1991 16h 46m 53.95± 0.85s
37.655 N ± 5.9km 3.518 W ±11.1km
DEPTH = 10.0km (geophysicist)
SPAIN (377)
mbLg 2.4 (MDD).

ECOG	0.38	186	eP	47 01.50	-0.3
			eS	47 07.00	
AFC	0.40	183	eP	47 02.00	-0.2
			eS	47 08.50	
EBAN	0.55	338	iP	47 04.20	-0.9
			eS	47 11.60	
EVIA	1.27	39	iP	47 18.00	0.5
			eS	47 35.00	
EHOR	1.38	277	eP	47 20.00	0.8
			eS	47 38.00	
	S.D. = 1.0	on	5 of	5 obs.	

& MAR 09, 1991 16h 48m 35.75s
60.938 N 150.753 W
DEPTH = 41.3km
KENAI PENINSULA, ALASKA (14)
<AEIC>.

NKA	0.31	231	iPd	48 45.84	1.7
SLKM	0.50	149	iPc	48 46.24	-0.4
			eS	48 55.14	
SUA	0.53	1	iPd	48 46.54	-0.5
			eS	48 55.85	
PMS	0.66	61	iPc	48 48.18	-0.5
SPU	0.68	292	iPc	48 48.42	-0.6
			iS	48 58.88	
CRP	0.76	296	iPc	48 49.80	-0.4
			eS	49 01.12	
CKL	0.81	289	iPc	48 50.30	-0.7
NCG	0.83	305	iPc	48 50.53	-0.6
			eS	49 02.60	
PWA	0.83	30	iPd	48 50.74	-0.3
BGL	0.86	293	iPc	48 50.95	-0.7
			eS	49 03.52	
RDT	0.89	246	iPc	48 51.07	-1.0
			iS	49 03.65	
NNL	0.94	197	iPd	48 52.91	0.3
PLRM	1.02	49	iPc	48 53.06	-0.7
			eS	49 06.64	
SEW	1.06	142	eP	48 52.99	-1.3
REF	1.06	246	iPc	48 53.64	-0.9
			eS	49 07.94	
RDN	1.08	248	iPc	48 53.54	-1.2
			eS	49 07.81	
RSO	1.09	245	iPc	48 54.13	-0.9
			eS	49 08.41	
RS2	1.10	245	iPc	48 54.17	-0.9
			eS	49 08.66	
SKT	1.11	341	ePd	48 54.43	-0.7
			eS	49 08.96	
RED	1.12	243	ePc	48 54.33	-1.0
			eS	49 09.41	
NCT	1.13	251	iPc	48 54.56	-0.9
			eS	49 09.26	
BRLK	1.18	183	ePd	48 55.38	-0.7
			eS	49 11.34	
KNK	1.21	66	iPc	48 55.69	-0.8
GHO	1.22	46	iPd	48 55.75	-0.9
			eS	49 12.27	
HOM	1.36	199	eP	48 58.35	-0.2
			S	49 16.54	
CNPM	1.44	190	ePd	48 59.03	-0.7
			eS	49 18.11	
CUT	1.49	9	ePd	48 59.85	-0.6
KNIM	1.60	110	ePc	48 59.35	-2.7
LTI	1.69	121	eP	49 01.02	-2.3
GLI	1.79	90	iPc	49 01.98	-2.7
MTU	1.81	120	ePc	49 02.78	-2.2
VZW	2.05	85	eP	49 06.13	-2.4
PDB	2.06	237	ePc	49 07.55	-1.1
VLZ	2.16	83	ePc	49 07.80	-2.2
KLU	2.40	75	iPc	49 11.28	-2.3
CDD	2.48	217	ePc	49 14.06	-0.6
TOA	2.49	60	eP	49 13.35	-1.4
RND	2.63	19	eP	49 16.38	-0.4
GLB	3.40	78	ePc	49 24.63	-3.0
	39 obs. associated				

MAR 09, 1991 17h 26m 20.97± 1.14s
43.341 N ± 9.3km 12.845 E ± 7.2km
DEPTH = 38.5 ± 18.1 km
CENTRAL ITALY (381)
MD 2.7 (SSO).

ARV	0.17	24	P	26 27.90	0.0
			eSg	26 32.60	
CIO	0.26	124	iPg	26 28.38	-0.4
			iSg	26 35.33	
ASS	0.30	206	P	26 29.40	0.2
			eSg	26 35.50	
SSO	0.42	96	ePg	26 30.99	0.4
			iSg	26 40.55	
AOI	0.59	69	iPg	26 32.89	0.0
			iSg	26 43.58	
CRE	0.71	294	P	26 34.60	-0.1
ALP	0.78	136	ePgd	26 35.56	-0.1
			iSg	26 48.15	
	S.D. = 0.4	on	7 of	7 obs.	

? MAR 09, 1991 17h 31m 03.37± 0.99s
39.229 S ±18.5km 78.556 E ±24.9km
DEPTH = 10.0km (geophysicist)
4.6mb (3 obs.)
MID-INDIAN RISE (429)

BFT	42.63	274	eP	39 00.20	-1.6
BUL	46.74	279	ePKP	39 41.00	6.3X
SPA	50.96	180	iPc	40 07.10	0.2
	0.9s	7.27nm		4.6mb	
NNT	55.20	25	eP	40 43.60	4.9X
CHTO	60.81	22	eP	41 15.80	-2.1
	1.1s	2.06nm		4.2mb	
PKI	66.76	7	P	41 57.74	0.5
DMN	66.77	6	P	41 58.16	0.9
KKN	66.97	6	P	41 59.04	0.6
GKN	67.12	6	P	41 59.92	0.6
GUN	67.14	7	P	41 59.16	-0.6
BCAO	70.21	293	iPd	42 20.20	1.6
	1.0s	10.00nm		4.9mb	
INK	146.04	21	ePKP	50 40.00	-3.0X
FRB	148.67	332	ePKP	50 55.00	7.7X

09d 17h

S.D. = 1.4 on 9 of 13 obs.

& MAR 09, 1991 17h 58m 01.81s
60.578 N 153.111 W
DEPTH = 144.5km
SOUTHERN ALASKA (2)
<AEIC>.

NCT	0.09	100	iPc	58	20.83	0.8
			eS	58	35.20	
RDN	0.18	110	iPc	58	20.90	0.7
			eS	58	35.55	
RS2	0.21	123	ePc	58	21.10	0.8
			eS	58	36.20	
RSO	0.21	123	eP	58	21.11	0.8
REF	0.22	114	ePc	58	20.97	0.6
			eS	58	36.31	
RED	0.23	133	iPc	58	20.96	0.7
			eS	58	35.68	
RDT	0.35	90	iPc	58	21.32	0.8
			eS	58	36.42	
CKL	0.73	31	ePc	58	23.29	-1.0
			eS	58	41.00	
BGL	0.77	27	iPc	58	24.10	-0.5
SPU	0.80	40	iPc	58	23.74	-1.0
CRP	0.83	34	ePc	58	24.53	-0.6
NKA	0.94	79	eP	58	27.03	1.3
NCG	0.95	29	ePc	58	25.35	-0.7
PDB	0.96	215	iPd	58	25.22	-0.8
			eS	58	42.73	
NNL	1.05	120	iPc	58	26.77	0.0
HOM	1.18	141	ePc	58	27.54	-0.4
AUE	1.23	186	eP	58	27.90	-0.6
AUH	1.23	188	eP	58	28.54	0.0
SVW	1.34	294	iPc	58	28.36	-1.3
BRLK	1.38	125	eP	58	28.83	-1.2
			eS	58	49.03	
CNPM	1.41	137	eP	58	29.22	-1.2
SLKM	1.43	92	eP	58	28.86	-1.7
SUA	1.46	51	ePd	58	30.22	-0.7
MCNL	1.53	204	iPd	58	30.91	-0.7
SKT	1.60	28	iPc	58	31.75	-0.7
			eS	58	54.52	
CDD	1.68	189	eP	58	32.41	-0.9
PMS	1.86	67	ePc	58	34.07	-1.3
PWA	1.90	54	eP	58	35.25	-0.6
SYI	2.01	169	ePd	58	35.89	-1.2
PLRM	2.19	61	ePd	58	37.47	-1.7
CUT	2.28	35	eP	58	39.81	-0.6
GHO	2.36	58	eP	58	39.65	-1.8
KNK	2.42	68	eP	58	40.40	-1.7
LTI	2.67	99	eP	58	44.02	-1.3
KNIM	2.67	93	eP	58	43.39	-1.9
MTU	2.78	100	eP	58	45.65	-1.1
KLU	3.62	72	eP	58	55.76	-1.9

37 obs. associated

% MAR 09, 1991 17h 59m 38.05± 0.81s
42.824 N ± 5.7km 12.779 E ± 8.0km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ASS	0.26	341	P	59	43.70	0.1
			eSg	59	47.20	
MNS	0.45	189	P	59	46.70	-0.4
			eSg	59	55.00	
CIO	0.46	36	iPg	59	46.80	-0.6
			iSg	59	52.25	
ALP	0.59	94	ePg	59	50.87	0.8
			iSg	00	00.61	
ARV	0.68	10	P	59	51.10	-0.5
			eSg	00	01.80	
CRE	1.01	323	P	59	57.80	0.6

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

& MAR 09, 1991 18h 28m 05.05s
61.064 N 148.173 W
DEPTH = 6.0km
SOUTHERN ALASKA (2)
<AEIC>.

KNK	0.38	339	iP	28	13.31	0.7
			eS	28	18.45	
GLI	0.56	109	iP	28	16.08	-0.2
			eS	28	25.38	
PMS	0.70	286	eP	28	18.48	-0.5
			eS	28	27.93	
PLRM	0.70	319	eP	28	18.81	-0.3
			eS	28	27.97	
KNIM	0.75	163	eP	28	18.63	-1.4
			iS	28	30.01	
VZW	0.79	90	eP	28	19.71	-1.1
			eS	28	31.61	
GHO	0.80	333	eP	28	20.33	-0.6
VLZ	0.90	85	eP	28	22.56	0.0
			eS	28	34.03	
PWA	1.01	306	eP	28	23.96	-0.6
LTI	1.04	171	eP	28	23.98	-1.0
HIN	1.06	128	eP	28	26.04	0.6
			eS	28	41.62	
MTU	1.11	166	iP	28	26.68	0.4
			eS	28	42.56	
SLKM	1.15	242	eP	28	26.01	-0.9
SEW	1.15	214	eP	28	26.50	-0.4
			eS	28	41.41	
KLU	1.17	67	eP	28	26.69	-0.6
CVA	1.30	113	eP	28	30.16	0.8
			eS	28	48.50	
SUA	1.31	289	eP	28	28.34	-1.3
TOA	1.42	42	eP	28	31.66	0.2
NKA	1.53	259	eP	28	34.29	1.4
SGAM	1.56	110	eP	28	33.71	0.3
			eS	28	54.08	
CUT	1.68	324	eP	28	35.16	0.2
RAGM	1.85	110	eP	28	38.95	1.4
			eS	29	02.96	
NNL	1.85	238	eP	28	38.06	0.5
SKT	1.85	301	eP	28	37.82	0.2
			eS	29	01.80	
BRLK	1.87	227	eP	28	36.70	-1.2
SPU	1.89	275	eP	28	37.74	-0.4
SDG	1.93	39	eP	28	38.45	-0.3
CRP	1.94	278	eP	28	39.49	0.5
NCG	1.96	282	eP	28	39.50	0.3
CKL	2.03	276	eP	28	39.89	-0.3
BGL	2.05	277	eP	28	40.95	0.3
HMT	2.06	109	eP	28	40.16	-0.4
RDT	2.13	259	eP	28	41.03	-0.7
GLB	2.14	78	eP	28	42.31	0.5
CNPM	2.17	226	eP	28	41.33	-0.9
REF	2.30	257	eP	28	43.47	-0.7
PAX	2.30	32	eP	28	44.99	0.8
RDN	2.32	258	eP	28	43.68	-0.8
RSO	2.33	257	iP	28	44.14	-0.5
RS2	2.33	257	eP	28	44.17	-0.5
RED	2.35	256	eP	28	44.18	-0.7
RND	2.37	353	eP	28	46.11	0.9
NCT	2.38	260	eP	28	44.61	-0.8
WAX	2.68	101	eP	28	48.91	-0.7
BALM	2.84	88	eP	28	51.34	-0.5
YAH	3.24	100	eP	28	58.03	0.5
PDB	3.25	249	eP	28	56.00	-1.5

47 obs. associated

MAR 09, 1991 18h 30m 02.52± 0.79s
41.106 N ± 6.7km 22.438 E ± 6.3km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.1 (SKO). MD 2.3 (THE).

GRG	0.15	191	iPc	30	06.61	0.5
			iS	30	09.74	
VAY	0.24	25	iPg	30	07.60	0.0
			iSg	30	11.20	
KNT	0.35	81	iPd	30	10.06	0.3
			eS	30	14.78	
THE	0.62	140	ePc	30	14.58	-0.4
			eS	30	22.94	
SOH	0.75	112	ePd	30	17.00	-0.2
FNA	0.87	249	ePd	30	19.00	-0.2

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

MAR 09, 1991 18h 31m 39.81± 0.32s
42.406 N ± 3.4km 19.851 E ± 2.6km
DEPTH = 8.5 ± 2.6 km
3.7mb (2 obs.)
YUGOSLAVIA (383)
ML 3.8 (TTG). MD 3.9 (THE), 3.8 (ATH).

PVY	0.21	25	iPgc	31	44.72	0.4
			iSg	31	48.62	
TTG	0.44	273	iPgc	31	48.02	-0.7
			iSg	31	54.89	
IVA	0.47	4	iPgc	31	49.64	0.4
			iSg	31	56.91	
ULC	0.63	226	iPgc	31	51.61	-0.8
			iSg	32	01.66	
NKY	0.75	303	iPgc	31	53.89	-0.8
			iSg	32	06.82	
BDV	0.77	261	iPgc	31	54.11	-0.8
			iSg	32	06.79	
PLE	0.98	340	iPgc	31	58.86	0.2
			iSg	32	15.61	
HCY	1.00	273	iPgd	31	58.78	-0.2
			iSg	32	14.62	
BRY	1.08	298	iPgd	31	59.42	-1.0
			iSg	32	18.01	
SKO	1.26	110	iPnc	32	03.40	0.1
			i	32	07.40	
			iSn	32	22.00	
			LQ	32	25.20	
OHR	1.47	151	iPn	32	05.50	-1.2
			iSn	32	26.20	
			LQ	32	35.80	
			LR	32	38.40	
FNA	1.98	144	eP	32	14.00	0.0
			eS	32	41.20	
VAY	2.30	117	iPn	32	20.00	1.4
			i	32	22.40	
			iSn	32	52.40	
			i	32	55.00	
			LQ	32	57.30	
BEO	2.45	10	ePn	32	28.20	7.5X
VTS	2.49	85	iPc	32	21.00	-0.3
BRT	2.50	233	P	32	21.90	0.5
			eSn	32	51.30	
LCI	2.51	215	P	32	19.90	-1.6
			eSn	32	48.50	
KZN	2.55	145	eP	32	22.70	0.6
BAI	2.58	241	Pc	32	22.00	-0.4
			eSn	32	54.00	
KNT	2.60	118	eP	32	24.20	1.5
HVAR	2.62	288	iPnd	32	24.60	1.5
			iSn	32	59.20	
KEK	2.69	181	eP	32	24.40	0.3
			eS	32	59.00	
IGT	2.89	173	eP	32	25.90	-1.1
MMB	3.00	104	eP	32	30.00	1.5
BLY	3.04	321	ePn	32	35.30	6.3X
			eSn	33	08.80	
LIT	3.04	138	eP	32	29.40	0.3
SOH	3.07	120	eP	32	29.90	0.5
SRS	3.08	113	eP	32	30.00	0.4
			eS	33	09.33	
PGB	3.20	86	iP	32	32.00	0.7
ORI	3.47	229	P	32	37.10	1.9
			eSn	33	15.30	
PLD	3.61	93	eP	32	38.00	0.8
RZN	3.69	100	iP	32	31.00	-7.5X
PAIG	3.81	129	eP	32	39.70	-0.2
TDS	3.82	225	P	32	40.20	0.1
			eSn	33	20.40	
AGG	3.87	150	eP	32	40.70	-0.2
SGO	3.88	243	P	32	41.20	0.3
			eSn	33	23.00	
MGR	3.95	236	P	32	42.00	0.0
			eSn	33	25.40	
DUI	4.09	261	P	32	45.70	1.8
PVL	4.11	77	eP	32	42.00	-2.2
KDZ	4.21	98	iPd	32	46.00	0.3
DIM	4.23	93	eP	32	53.00	7.0X
VLS	4.26	172	eP	32	44.60	-1.8
			eS	33	34.50	
RDO	4.43	105	eP	32	48.50	-0.3
VBY	4.54	315	ePn	32	53.60	3.3X
			iSn	33	51.30	
SDI	4.55	263	P	32	51.40	0.9
ALP	4.65	277	ePn	32	52.75	0 7
			iSn	33	47.93	
AZI	4.78	267	P	32	54.70	0.9
RIY	4.92	308	ePn	32	57.30	1.6
			iSn	33	56.30	
CIO	5.00	281	iPn	32	57.29	0.4
			iSn	33	56.98	
CEY	5.14	312	ePn	33	01.50	2.7
			eSn	34	04.00	
ARV	5.19	284	P	33	00.00	0.5
SOI	5.21	215	P	32	59.60	-0.2
LJU	5.27	315	e(Pn)	33	00.00	-0.7
			e	33	02.50	

			eSn	34 07.00		
MNS	5.31	272	P	33 02.40	1.1	
MLR	5.37	53	ePc	33 00.00	-2.3	
TRI	5.49	309	ePn	33 04.50	0.7	
			iSn	34 10.00		
PSZ	5.51	0	eP	33 02.30	-1.9	
SRO	5.52	349	eP	33 03.70	-0.4	
			e	34 08.80		
VOY	5.61	312	ePn	33 07.70	2.1	
			eSn	34 14.90		
CRE	5.92	285	P	33 12.10	2.2	
PGD	6.13	287	P	33 14.10	1.2	
FVI	6.56	312	P	33 21.20	2.3	
KBA	6.58	317	ePn	33 22.00	2.7	
			i	33 24.90		
			iSn	34 39.70		
CTI	6.92	305	P	33 23.70	-0.4	
			eSn	34 39.70		
BDI	6.96	287	P	33 25.90	1.4	
BHG	7.25	320	eP	33 31.40	2.9X	
PGF	8.02	275	Pn	33 39.40	-0.1	
MDI	8.04	298	P	33 38.90	-0.6	
SBF	9.20	283	Pn	33 54.60	-1.1	
FRF	9.75	281	Pn	34 02.00	-1.2	
BNI	9.90	290	P	34 04.20	-1.3	
LPG	9.94	293	Pn	34 03.20	-3.0X	
			Sn	35 45.00		
RSL	10.07	294	P	34 06.92	-0.9	
BSF	10.70	305	Pn	34 14.30	-2.1	
LBF	12.18	297	Pn	34 34.20	-2.3	
SMF	12.18	296	Pn	34 34.20	-2.3	
LOR	12.34	299	Pn	34 36.40	-2.2	
BGF	12.83	295	Pn	34 42.80	-2.3	
NB2	19.38	347	P	36 08.80	0.2	
	0.9s		3.20nm		3.6mb	
YKA	69.25	339	eP	42 47.70	-1.1	
	0.5s		0.40nm		3.9mb	
WB2	121.12	89	ePdiff	47 05.70	4.8X	
ASPA	123.02	93	ePdiff	47 05.70	-3.6X	
	S.D. = 1.3		on	73 of 82 obs.		

? MAR 09, 1991 19h 07m 27.62± 5.42s
0.470 S ±11.9km 79.266 W ±49.3km
DEPTH = 33.0km (normal)
ECUADOR (107)

QTO	0.78	71	P	07 42.80	0.3	
			eS	07 56.80		
YANA	0.78	63	eP	07 42.60	0.0	
			S	07 55.20		
QUR	0.79	68	iPd	07 42.50	-0.3	
			S	07 55.60		
VC1	0.88	101	iP+	07 43.90	-0.1	
COTA	1.23	49	P	07 49.00	0.0	
			eS	08 08.00		
TUNG	1.25	139	P	07 49.60	0.4	
			S	08 07.30		
CAYA	1.39	67	iP+	07 53.00	1.6	
			eS	08 14.80		
	S.D. = 0.8		on	7 of 7 obs.		

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* MAR 09, 1991 20h 48m 41.76± 1.45s
36.459 N ±14.3km 70.927 E ± 8.3km
DEPTH = 220.6 ± 18.3 km
4.1mb (6 obs.)
HINDU KUSH REGION (718)

QUE	7.08	209	eP	50 24.40	0.3	
			eS	51 42.00		
GKN	14.33	122	P	51 56.70	0.4	
DMN	14.90	122	P	52 03.60	0.2	
KKN	14.91	121	P	52 03.10	-0.3	
	0.5s		16.00nm		4.7mb	
PKI	15.13	122	P	52 06.00	-0.3	
GUN	15.25	120	P	52 07.30	-0.4	
HFS	43.06	322	eP	56 20.50	-0.6	
	0.4s		1.90nm		3.9mb	
NB2	44.38	323	P	56 31.00	-0.6	
	0.8s		2.90nm		3.8mb	
MBC	67.38	3	eP	59 15.00	0.5	
	1.0s		6.00nm		4.3mb	
INK	73.96	9	eP	59 54.50	0.6	
YKA	81.29	3	eP	00 34.40	0.4	
	0.4s		1.20nm		4.0mb	
WB2	82.03	122	iPd	00 38.00	-0.5	
ASPA	84.28	125	iPd	00 50.10	0.2	
	0.6s		5.30nm		4.5mb	

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

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* MAR 09, 1991 22h 15m 42.86± 0.76s
23.795 N ± 6.8km 120.879 E ±11.3km
DEPTH = 33.0km (normal)
TAIWAN (244)

TWO	0.48	355	iPc	15 51.60	-1.6	
			eS	15 58.50		
TWF1	0.58	139	iPd	15 54.30	-0.4	
			eS	16 03.60		
TWK	0.64	214	iPc	15 54.60	-0.8	
			eS	16 04.10		
TWD	0.71	66	ePd	15 55.80	-0.7	
TWG	0.99	170	ePc	16 01.10	0.7	
TWM1	1.05	204	ePc	16 01.80	0.5	
TWC	1.20	47	ePc	16 03.70	0.3	
			eS	16 19.80		
ANP	1.50	23	eP	16 22.40	14.5X	
			eS	16 30.50		
SSE	7.28	2	P	17 31.50	2.0	
			eS	18 43.50		
			Lg	19 42.00		
	S.D. = 1.3		on	8 of 9 obs.		

& MAR 09, 1991 23h 24m 57.84s
59.631 N 151.633 W
DEPTH = 48.3km
KENAI PENINSULA, ALASKA (14)
<AEIC>.

HOM	0.03	349	iP	25 05.33	1.6	
			eS	25 11.21		
XLV	0.18	194	eP	25 05.04	-0.9	
			eS	25 11.22		
CNPM	0.23	117	iP	25 05.80	-0.5	
			eS	25 12.10		
BRLK	0.40	70	iP	25 07.49	-0.5	
			eS	25 15.29		
NNL	0.45	22	iP	25 08.99	0.6	
AUE	0.93	254	iP	25 13.87	-0.8	
AUH	0.96	255	iP	25 14.65	-0.6	
AUI	0.96	253	eP	25 14.37	-0.8	
			eS	25 27.00		
RED	0.98	325	eP	25 14.41	-1.1	
			eS	25 28.06		
RSO	1.01	326	eP	25 15.53	-0.5	
			eS	25 28.89		
RS2	1.01	326	eP	25 15.37	-0.7	
			eS	25 28.94		
REF	1.01	329	eP	25 15.60	-0.5	
			eS	25 29.34		
RDT	1.02	338	iP	25 15.27	-0.8	
			eS	25 29.24		
RDN	1.05	328	eP	25 15.80	-0.8	
			eS	25 29.95		
SYI	1.10	201	eP	25 15.88	-1.2	
SLKM	1.13	38	eP	25 17.16	-0.4	
NKA	1.13	10	eP	25 18.85	1.3	
NCT	1.14	326	eP	25 16.99	-0.8	
			eS	25 32.18		
SEW	1.20	66	eP	25 18.69	0.2	
CDD	1.25	237	eP	25 18.21	-1.0	
			eS	25 34.69		
PDB	1.31	278	eP	25 18.61	-1.4	
			eS	25 35.39		
MCNL	1.45	253	eP	25 20.56	-1.5	
SPU	1.57	353	eP	25 23.30	-0.5	
CKL	1.61	348	eP	25 23.89	-0.5	
BGL	1.68	347	eP	25 25.32	-0.1	
NCG	1.80	352	eP	25 26.89	-0.2	
PMS	1.92	32	eP	25 28.24	-0.4	
LTI	1.95	76	eP	25 27.49	-1.6	
MTU	2.04	78	eP	25 32.13	1.7	
KNIM	2.09	68	eP	25 28.64	-2.4	
KNK	2.38	40	eP	25 34.25	-0.9	
	31 obs. associated					

% MAR 10, 1991 00h 15m 39.52± 0.90s
40.921 N ± 6.3km 28.385 E ± 7.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

CTT	0.23	9	iPg	15 44.80	0.4	
			iSg	15 49.30		
ISK	0.53	74	ePg	15 49.80	-0.5	
			eSg	15 58.80		
YLV	0.83	115	ePg	15 55.80	0.2	
HRT	0.98	95	iPg	15 58.30	0.2	
DMK	1.02	333	ePn	15 58.50	-0.2	
DST	1.33	172	ePn	16 04.00	-0.1	
	S.D. = 0.4		on	6 of 6 obs.		

MAR 10, 1991 00h 53m 46.91± 0.62s
26.667 N ± 5.3km 127.108 E ± 5.7km
DEPTH = 113.0 ± 5.1 km
4.7mb (28 obs.)
RYUKYU ISLANDS (238)

NAH	0.68	131	iP	54 05.80	0.2	
			S	54 19.30		
SSE	6.81	312	iPd	55 25.00	-0.8	
	1.0s		77.00nm		5.1mb	
OZH	7.86	259	Pc	55 39.50	-0.6	
	0.6s		40.00nm		5.2mb	
NJ2	8.98	309	Pd	55 54.80	-0.4	
CVP	10.17	210	eP	56 09.00	-2.2	
			eS	56 15.00		
PIP	10.24	217	iPd	56 09.00	-3.1X	
SZP	10.96	216	eP	56 23.00	1.3	
WHN	11.86	292	Pc	56 34.70	1.3	
TIA	12.77	321	Pc	56 46.10	0.7	
SNY	15.40	350	iPc	57 22.20	3.1X	
	0.8s		10.00nm		4.1mb	
BJI	16.15	328	eP	57 29.50	1.1	
	1.2s		50.00nm		4.6mb	
TIY	16.58	315	Pd	57 35.00	1.1	
	1.0s		30.00nm		4.5mb	
CN2	17.15	356	eP	57 41.60	0.8	
XAN	17.32	299	Pc	57 42.60	-0.4	
GYA	18.29	274	P	57 55.80	0.9	
HHC	19.12	322	eP	58 03.30	-0.3	
BTO	19.84	319	eP	58 10.00	-1.1	
CD2	20.89	287	P	58 20.00	-1.8	
	1.0s		40.00nm		4.7mb	
LZH	21.93	301	eP	58 31.50	-0.7	
	1.5s		40.00nm		4.6mb	
GTA	26.06	306	iPd	59 10.00	-1.6	
	0.6s		40.00nm		5.1mb	
CHG	27.08	259	iPd	59 21.30	0.4	
	1.0s		12.50nm		4.4mb	
CHTO	27.08	259	iPd	59 21.20	0.3	
	1.2s		18.40nm		4.5mb	
			pP	59 44.90	108kmX	
KHT	29.10	252	eP	59 40.00	1.0	
GUN	36.54	282	P	00 44.40	0.7	
PKI	37.00	281	P	00 47.60	0.0	
KKN	37.08	282	P	00 48.40	0.3	
DMN	37.26	281	P	00 49.40	-0.3	
GKN	37.62	282	P	00 52.00	-0.5	
HYB	45.71	269	eP	01 58.50	0.0	
WB2	46.86	171	eP	02 12.30	4.8X	
	0.7s		3.60nm		4.3mb	
			e	02 31.80		
KOD	49.52	260	iPd	02 29.60	1.1	
	0.8s		59.70nm		5.6mb	
ASPA	50.47	172	iPd	02 41.50	6.3X	
	1.2s		5.90nm		4.4mb	
ILT	52.32	23	eP	02 48.00	-0.6	
	1.3s		11.00nm		4.7mb	
QUE	52.49	289	eP	02 50.60	-0.1	
KEV	68.66	338	eP	04 38.00	-1.5	
INK	68.89	23	eP	04 41.50	0.6	
SOD	69.60	336	eP	04 45.00	-0.2	
MBC	69.64	14	ePd	04 45.10	-0.3	
	0.5s		4.00nm		4.5mb	
KAF	71.63	331	iP	04 56.60	-1.0	
	0.5s		6.50nm		4.7mb	
NUR	73.00	330	eP	05 05.00	-0.6	
UPP	76.42	331	iP	05 24.90	-0.3	
HFS	77.97	332	eP	05 32.70	-1.0	
	0.7s		11.90nm		4.8mb	
NB2	78.48	333	P	05 35.60	-1.0	
	0.5s		3.70nm		4.4mb	
YKA	78.55	25	eP	05 37.50	0.6	
	0.5s		1.20nm		4.0mb	
MLR	78.73	315	iPd	05 38.00	-0.4	
KRA	80.15	321	iPc	05 46.30	0.6	
	0.6s		21.00nm		5.1mb	
KSP	81.74	323	iPd	05 54.70	0.6	
BRG	82.97	324	e(P)	06 01.20	0.8	
PRU	83.15	323	eP	06 02.00	0.6	
CLL	83.22	325	iPd	06 02.30	0.6	
	0.7s		14.00nm		5.0mb	

10d 01h

SKO	83.27	314	iP	06	03.40	1.2	
OHR	84.12	313	eP	06	06.70	0.2	
MOX	84.32	325	eP	06	08.00	0.7	
GRF	85.08	324	iPd	06	12.50	1.4	
	1.1s	23.00nm			5.0mb		
BHG	85.34	322	iPc	06	13.90	1.5	
KBA	85.44	321	eP	06	14.00	0.8	
	0.6s	3.30nm			4.4mb		
			ic	06	14.50		
FUR	85.95	323	eP	06	17.30	1.8	
OGA	86.86	322	iPc	06	21.30	1.1	
SNF	88.06	328	P	06	25.90	0.3	
DOU	88.18	327	P	06	26.50	0.3	
BSF	88.54	324	eP	06	26.90	-1.2	
HAU	88.66	325	eP	06	27.50	-1.1	
LPL	90.04	323	eP	06	34.70	-0.7	
	0.7s	3.30nm			4.6mb		
LPG	90.04	323	eP	06	34.90	-0.5	
	0.6s	3.15nm			4.6mb		
LOR	90.42	325	eP	06	35.70	-1.1	
PGF	90.62	319	eP	06	38.00	0.1	
	0.8s	24.20nm			5.4mb		
SMF	90.84	325	eP	06	37.60	-1.1	
AVF	90.99	325	eP	06	38.80	-0.6	
FRF	91.33	321	eP	06	41.20	0.2	
	0.8s	6.70nm			4.9mb		
LDF	91.47	328	eP	06	40.70	-0.8	
FLN	91.52	328	eP	06	40.80	-1.0	
LMR	91.55	321	eP	06	42.40	0.4	
LRG	91.56	321	eP	06	42.60	0.6	
	0.8s	8.05nm			5.0mb		
GRR	91.96	328	eP	06	43.40	-0.4	
LPF	92.30	328	eP	06	44.80	-0.6	
KIC	122.97	298	PKP	12	32.80	0.7	
	S.D. = 0.9	on	72 of	76	obs.		

MAR 10, 1991 00h 53m 47.76± 1.01s
31.804 N ± 5.2km 50.184 E ± 4.2km
DEPTH = 36.5 ± 10.5 km
4.7mb (12 obs.) 3.9Msz (1 obs.)
IRAN (348)

KER	3.62	315	ePc	54	44.00	1.0	
TEH	4.05	14	eP	54	50.00	0.9	
BBU	5.57	177	iP	55	09.40	-1.0	
	0.4s	110.00nm			5.7mb		
TAB	7.00	334	eP	55	54.00	23.3X	
RYD	7.73	205	eP	55	38.50	-2.3	
			iS	58	00.00		
QUE	14.47	92	eP	57	16.80	4.7X	
			eS	01	36.10		
SRAT	15.11	207	eP	57	22.30	1.8	
DHJN	15.33	205	eP	57	22.70	-0.8	
BBTK	16.23	304	eP	57	36.00	1.2	
ELL	17.46	292	iP	57	52.80	2.6X	
YER	18.81	292	eP	58	06.00	-0.8	
DST	19.13	300	eP	58	09.00	-1.6	
IZM	19.85	296	eP	58	19.80	1.3	
KSH	22.26	63	eP	58	45.00	1.8	
SRS	23.25	301	ePd	58	55.00	2.4	
SOH	23.35	300	ePd	58	56.90	3.2X	
NDI	23.54	91	eP	58	56.00	0.4	
AGG	23.76	295	iPd	58	59.00	1.4	
KNT	23.76	301	iPc	58	58.20	0.5	
VAY	24.04	301	eP	59	01.00	0.7	
FNA	24.80	299	ePd	59	09.20	1.4	
SKO	25.03	302	eP	59	10.80	1.0	
OHR	25.30	300	eP	59	11.00	-1.5	
	1.1s	87.00nm			5.3mb		
KRA	28.95	318	eP	59	43.60	-2.0	
			e	00	13.10		
HYB	29.39	112	ePc	59	50.00	0.0	
GKN	30.03	88	P	59	55.40	-0.4	
DMN	30.54	89	P	00	00.20	-0.2	
KKN	30.64	88	P	00	00.60	-0.6	
PKI	30.81	89	P	00	02.60	-0.2	
GBA	30.85	120	P	00	03.00	0.2	
			e	02	18.00		
GUN	31.11	88	P	00	05.20	-0.3	
KSP	31.39	317	eP	00	08.50	1.2	
WMO	31.71	57	eP	00	10.00	-0.3	
KBA	31.94	309	eP	00	13.00	0.6	
	1.0s	10.70nm			4.7mb		
			i	00	34.30		
			e	02	31.00		
KHC	32.39	313	P	00	15.00	-1.1	
			i	13	32.40		
KOD	33.13	124	eP	00	24.00	0.8	
NUR	33.29	337	eP	00	23.00	-0.7	
CLL	33.48	317	e(P)	00	28.00	2.5X	
KAF	34.01	340	eP	00	29.00	-0.9	
LPG	36.13	305	eP	00	47.60	-1.0	
	0.8s	6.70nm			4.6mb		
LPL	36.15	305	eP	00	47.60	-1.1	
	1.9s	50.35nm			5.1mb		
HFS	37.19	331	eP	00	56.00	-0.9	
	1.0s	36.60nm			5.2mb		
Z	18s	0.16um			3.9Msz		
			LR	14	59.00		
SOD	38.22	346	eP	01	06.00	0.5	
SMF	38.27	306	eP	01	05.00	-1.2	
	0.9s	10.65nm			4.7mb		
LOR	38.33	307	eP	01	05.20	-1.5	
SSF	38.55	307	eP	01	07.60	-0.9	
	1.1s	6.10nm			4.3mb		
AVF	38.62	307	eP	01	08.00	-1.1	
NB2	38.71	331	P	01	08.80	-0.9	
	0.7s	7.20nm			4.6mb		
KEV	40.17	348	eP	01	23.00	1.3	
BCAO	40.28	234	ePd	01	25.50	2.3	
	0.5s	5.00nm			4.5mb		
LDF	41.13	309	eP	01	28.40	-1.4	
GRR	41.60	309	eP	01	33.10	-0.6	
LPF	41.70	308	eP	01	34.80	0.3	
LZH	44.26	69	eP	01	56.50	0.8	
	2.0s	32.00nm			4.8mb		
			pP	02	02.50	20kmX	
			sP	02	15.00		
CHTO	45.59	94	iP	02	06.30	-0.1	
	1.1s	6.48nm			4.5mb		
IFR	46.13	288	eP	02	06.00	-4.6X	
			i	02	15.00		
XAN	48.77	71	P	02	30.50	-0.6	
GYA	49.16	81	P	02	34.80	0.4	
TIY	50.66	65	eP	02	44.00	-1.7	
TIA	54.68	66	eP	03	15.20	-0.3	
BUL	55.64	205	eP	03	24.60	1.9	
LKO	56.03	260	P	03	26.32	0.7	
KIC	57.04	256	P	03	32.70	-0.1	
LIC	57.35	256	P	03	34.60	-0.4	
FRB	73.28	336	eP	05	17.00	0.2	
SCH	78.22	328	eP	05	46.00	1.0	
FORR	96.56	122	iPd	07	30.90	15.9X	
	S.D. = 1.1	on	60 of	67	obs.		

MAR 10, 1991 00h 59m 46.97± 0.19s
21.856 S ± 2.9km 179.315 W ± 2.9km
DEPTH = 613.1 ± 2.4 km
5.4mb (51 obs.)
FIJI ISLANDS REGION (181)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 17C
Centroid Location:
Origin Time 00:59:52.8 1.1
Lat 21.45S 0.17 Lon 179.58W 0.10
Dep 627.6 7.3 Half-duration 1.7
Moment Tensor; Scale 10**16 Nm
Mrr=-1.78 0.74 Mtt=-1.33 1.15
Mff= 3.11 0.97 Mrt=-7.63 0.92
Mrf=-3.96 0.96 Mtf= 4.82 0.98
Principal Axes:
T Val= 10.99 Plg=32 Azm=133
N -1.78 28 243
P -9.21 45 4
Best Double Couple:Mo=1.0**17
NP1:Strike=169 Dip=29 Slip=-166
NP2: 66 83 -62

SVA	4.27	330	ePc	01	15.70	0.1	
VUN	4.36	331	ePc	01	15.70	-0.6	
KRO	4.68	345	ePc	01	18.40	-0.3	
SGE	4.98	328	iPc	01	22.30	1.2	
NDF	5.09	323	iPd	01	18.10	-3.7X	
MBU	5.20	339	iPc	01	23.40	0.7	
NDE	5.40	346	eP	01	24.50	0.1	
AFI	10.67	43	eP	02	10.00	-2.8	
			eS	04	03.00		
DZM	13.22	266	iPc	02	39.00	1.4	
			iS	05	04.10		
HBZ	15.82	187	eP	03	05.10	2.5	
PUZ	16.30	187	P	03	08.20	1.0	
WLZ	16.53	194	P	03	12.60	3.3X	
TAZ	16.71	192	P	03	12.60	1.5	
NOZ	16.86	187	P	03	12.70	0.2	
CNZ	17.84	193	eP	03	23.50	1.7	
PGZ	19.08	190	P	03	32.10	-1.0	
	0.2s	22.00nm			5.3mb		
MNG	19.22	192	P	03	33.50	-0.9	
	0.2s	27.00nm			5.4mb		
KIW	19.57	193	eP	03	37.60	0.0	
MTW	19.74	192	eP	03	37.80	-1.4	
CAW	19.77	193	P	03	38.60	-0.9	
WDW	19.94	193	P	03	39.90	-1.1	
BLW	19.95	192	P	03	39.80	-1.3	
MRW	19.97	193	eP	03	40.20	-1.0	
WEL	20.01	193	Pc	03	42.00	0.4	
	0.8s	*******	nm		7.6mb	X	
			S	06	49.00		
TCW	20.04	194	P	03	41.20	-0.7	
CCW	20.57	194	P	03	46.60	-0.1	
THZ	20.90	196	P	03	49.00	-0.8	
			S	07	00.60		
KHZ	21.36	195	P	03	53.00	-0.8	
	0.4s	83.00nm			5.7mb		
			S	07	07.80		
LTZ	22.02	197	P	03	58.40	-1.5	
			S	07	16.80		
MMCZ	24.97	200	P	04	25.20	-0.9	
MHZ	24.97	199	P	04	25.00	-1.2	
BRS	25.93	252	iPc	04	36.50	1.8	
			e	05	28.00		
COO	27.19	245	iPc	04	47.60	2.0	
TBI	27.58	99	iP	04	49.70	0.8	
	0.6s	110.00nm			5.7mb		
AFR	28.12	86	iP	04	53.20	-0.4	
	0.8s	100.00nm			5.5mb		
PAE	28.27	87	iP	04	54.40	-0.5	
	0.8s	40.00nm			5.1mb		
PPT	28.30	87	iP	04	54.60	-0.6	
	0.8s	90.00nm			5.5mb		
PPN	28.44	87	iP	04	55.80	-0.6	
	0.8s	50.00nm			5.2mb		
TVO	28.55	87	iP	04	56.70	-0.7	
	0.8s	125.00nm			5.6mb		
RMQ	29.45	255	iPc	05	05.90	0.9	
			e	10	36.60		
PMO	30.54	83	iP	05	14.00	-0.2	
	0.8s	80.00nm			5.4mb		
VAH	30.71	83	iP	05	15.20	-0.5	
	0.8s	70.00nm			5.3mb		
TPT	30.80	83	iP	05	16.30	-0.1	
	0.8s	110.00nm			5.5mb		
RUV	30.95	83	iP	05	17.50	-0.2	
	0.8s	125.00nm			5.6mb		
CMS	32.47	245	eP	05	32.00	1.6	
OLP	33.50	255	iPd	05	38.20	-0.9	
TOO	34.11	235	eP	05	46.00	1.9	
PMG	34.49	286	iPd	05	47.00	-0.3	
QIS	38.24	264	iPd	06	17.80	-0.2	
	0.4s	10.00nm			4.7mb		
			i	08	16.50		
RKT	40.87	100	iP	06	39.60	0.6	
	0.7s	40.00nm			5.0mb		
ASPA	43.03	258	iPd	06	56.20	0.0	
	0.7s	68.80nm			5.3mb		
			ePP	08	14.80		
			iPcP	08	31.70		
			iScP	11	25.60		
			iS	12	36.70		
			iScS	15	49.60		
WB2	43.20	264	iPc	06	56.90	-0.6	
	0.3s	76.50nm			5.7mb		
			eScP	11	28.70		
			eS	12	38.30		
MTN	47.97	272	eP	07	33.00	-0.9	
	0.3s	102.00nm			5.8mb		
WARB	49.26	254	iPd	07	43.10	-0.3	
	0.3s	11.00nm			4.8mb		
KNA	49.34	268	eP	07	43.60	-0.4	
	0.4s	58.00nm			5.4mb		
MBL	56.28	259	iPd	08	32.70	-0.6	
	0.3s	53.00nm			5.3mb		
KLB	56.37	246	eP	08	33.20	-0.6	
MEKA	56.40	252	eP	08	33.10	-0.9	
NWAO	56.67	244	eP	08	35.50	-0.3	
BAL	57.39	247	iPd	08	40.30	-0.4	
MUN	57.64	245	eP	08	42.40	0.0	
NANU	59.87	256	eP	08	57.50	0.2	
	0.4s	61.00nm			5.2mb		
CGP	62.61	293	iPd	09	15.00	-0.1	

	1.1s	16.00nm			4.3mb X		1.0s	44.00nm			5.1mb		GAZ	144.98	304	iPKP	18	17.90	0.9
MAP	64.16	294	ePd	09	24.00	-0.9	GYA	86.26	300	iPd	11	27.00	0.6	COP	145.10	348	iPKPd	18	16.70	0.1
SPA	68.28	180	iPc	09	51.00	1.3	MCW	86.40	34	P	11	27.10	0.6		0.6s	98.67nm				
	1.0s	70.00nm			5.1mb		TTA	86.49	10	eP	11	26.50	-0.2				i	18	18.00	
		i	11	57.50				0.8s	9.88nm			4.6mb		BSD	145.12	346	iPKPd	18	18.70	2.0
KAKJ	69.29	326	P	09	55.90	0.1	PMR	86.62	14	iPd	11	26.70	-0.5		0.6s	200.00nm				
CHJJ	69.80	325	P	09	57.90	-0.9		0.4s	63.10nm			5.7mb		EDU	145.25	4	iPKPd	18	18.00	1.1
IIDJ	69.96	324	P	09	58.90	-0.9	ANM	86.82	6	eP	11	27.90	-0.2		0.7s	378.00nm				
WKYJ	70.35	321	eP	10	01.70	-0.4	MSU	86.93	46	P	11	30.40	0.9	ELO	145.28	4	iPKPd	18	18.00	1.0
MAT	70.59	325	iPd	10	02.20	-1.2	TIY	87.27	312	iPd	11	31.00	0.1		0.8s	135.00nm				
OFUJ	70.77	329	P	10	03.60	-0.7		0.6s	50.00nm			5.4mb		EAB	145.51	5	iPKPd	18	18.80	1.5
MTMJ	70.84	325	P	10	04.20	-0.8	KLU	87.29	15	P	11	29.70	-0.8		0.8s	93.00nm				
YAMJ	70.87	327	P	10	04.70	-0.3	TOA	87.75	15	ePd	11	32.80	0.2	EBH	145.51	4	iPKPd	18	19.00	1.7
PIP	71.05	300	iPc	10	05.50	-0.9	BSI	87.76	277	eP	11	33.00	-0.5		1.0s	212.00nm				
TSRJ	71.07	323	P	10	05.40	-0.8	XAN	87.98	308	iPd	11	35.00	0.8	ESY	145.90	3	iPKPd	18	19.90	2.0
TKSJ	71.09	320	P	10	06.20	-0.1		0.8s	70.00nm			5.5mb			0.5s	40.00nm				
KUMJ	72.07	317	eP	10	11.10	-1.0	KHT	88.29	287	eP	11	37.40	1.5	EAU	145.92	4	iPKPd	18	20.20	2.2X
YONJ	72.27	321	P	10	12.70	-0.5	DPW	88.37	36	P	11	35.70	0.0		0.8s	216.00nm				
KUSJ	72.62	333	iPd	10	14.00	-0.9	PNT	88.46	34	iPd	11	36.90	0.9	EBL	146.02	4	iPKPd	18	20.40	2.3X
HOOJ	72.65	332	P	10	15.20	0.1		0.9s	105.00nm			5.7mb			0.9s	101.00nm				
SHNJ	72.96	319	eP	10	15.60	-1.5	BDT	88.89	289	eP	11	37.00	-1.6	EKA	146.45	4	PKPd	18	20.30	1.5
MRRJ	73.67	331	P	10	19.30	-1.6		0.7s	73.10nm			5.7mb			0.8s	55.40nm				
ASAJ	74.32	333	iPd	10	25.00	0.5	PTI	89.05	43	P	11	40.00	0.9	ESK	146.46	4	iPKPd	18	20.30	1.4
OZH	76.14	304	Pc	10	34.80	-0.1	NEW	89.19	36	P	11	39.10	-0.3		0.8s	66.00nm				
	0.7s	50.00nm			5.1mb			1.0s	14.50nm			4.8mb		BHL	147.00	299	PKPc	18	23.00	2.5X
PET	76.98	347	eP	10	36.00	-2.8	ALO	89.20	52	eP	11	39.30	-0.7	HRI	147.06	298	iPKPd	18	24.00	3.3X
	0.6s	400.00nm			6.1mb			1.0s	22.50nm			5.0mb		BBTK	147.38	311	ePKP	18	20.00	-1.0
SSE	77.63	311	Pd	10	42.50	-0.2	ANMO	89.20	52	P	11	40.00	0.0				i	18	24.00	
	0.9s	33.00nm			4.8mb			1.0s	20.00nm			5.0mb		JVI	147.62	295	iPKPd	18	25.50	3.9X
HKC	78.28	300	eP	10	47.50	1.2	HHC	89.43	315	Pd	11	41.60	0.8	BRL	147.93	345	ePKP	18	25.00	3.8X
KGM	79.04	277	ePd	10	51.80	1.3		1.0s	100.00nm			5.7mb					e	18	30.00	
BLP	79.23	46	P	10	52.20	1.1	ILT	89.49	0	iP	11	39.90	-0.3	VRI	147.99	325	ePKPd	18	27.00	5.4X
GZH	79.32	300	iPd	10	53.00	1.2		0.8s	54.00nm			5.5mb		BRN	148.00	345	ePKP	18	25.00	3.6X
SYP	79.49	46	eP	10	53.00	0.4			e	11	49.00						e	18	30.00	
PRS	79.64	44	ePd	10	54.20	1.0			e	12	09.00			KRA	148.02	336	iPKPd	18	25.20	3.7X
GCC	79.66	43	eP	10	54.10	0.8			e	13	02.00				0.3s	136.00nm				
PCC	79.70	43	ePd	10	54.20	0.7			e	15	08.00						i	18	30.30	
BCH	79.81	46	P	10	55.50	1.3	CHG	89.56	290	iPd	11	43.50	1.8	RMN	148.44	293	iPKPd	18	27.40	4.5X
NJ2	79.81	310	Pc	10	53.30	-0.8		1.0s	134.50nm			5.8mb		KSP	148.59	341	ePKP	18	22.30	-0.1
	1.0s	100.00nm			5.2mb		CHTO	89.56	290	iPc	11	43.40	1.7		1.0s	123.00nm				
SAO	79.85	44	eP	10	55.00	0.7		0.7s	53.53nm			5.6mb					id	18	27.00	
PRI	79.99	45	ePd	10	56.00	0.8	IMA	89.79	10	iPd	11	41.70	-0.2				i	18	33.10	
BRK	80.01	42	eP	10	55.70	0.7		0.8s	33.50nm			5.3mb					e	20	48.50	
BKS	80.02	42	ePd	10	55.80	0.6	FBA	89.83	13	iPd	11	41.00	-1.0	SPC	148.61	335	iPKPd	18	27.70	5.0X
	0.7s	178.00nm			5.6mb		BTO	90.33	314	eP	11	45.00	0.0	MLR	148.66	325	iPKPd	18	27.00	4.2X
MHC	80.07	43	ePd	10	56.50	0.9	CD2	90.49	303	P	11	46.80	0.9	WIT	148.75	353	iPKPd	18	28.00	5.5X
LLA	80.09	44	eP	10	56.30	0.8	LRM	90.53	40	eP	11	45.90	-0.1	ETA	148.76	8	ePKP	18	26.30	3.8X
ARN	80.15	43	P	10	56.90	1.0	BW06	90.79	44	P	11	47.00	-0.2		0.9s	48.00nm				
ABL	80.19	46	P	10	56.60	0.2		1.1s	30.75nm			5.2mb		VAL	148.80	13	ePKP	18	20.50	-2.1X
PAS	80.50	47	eP	10	58.00	0.3	LZH	92.62	308	iPd	11	56.00	0.3	ECB	149.00	9	ePKP	18	26.70	3.8X
MWC	80.62	47	eP	10	58.00	-0.6		1.0s	70.00nm			5.7mb			0.7s	35.00nm				
BAR	80.73	49	eP	10	59.00	0.1			pP	14	06.50	601kmX		CLL	149.07	345	iPKP	18	22.90	-0.2
FHC	80.78	39	ePd	11	00.20	1.2	SES	93.69	37	iPd	11	59.70	-0.4		1.3s	17.00nm				
MDJ	80.93	326	iPd	10	59.10	-0.5	BRW	94.23	7	eP	12	01.70	-0.3	BRG	149.23	343	ePKP	18	22.70	-0.6
RVR	80.96	48	eP	11	00.00	-0.1	RSSD	94.98	44	P	12	05.80	-0.5				i	18	28.50	
PLM	80.96	49	eP	11	01.00	0.7	INK	95.90	16	eP	12	08.00	-1.6				i	18	34.80	
SBB	81.04	47	eP	11	01.00	0.5	GTA	96.88	310	Pd	12	15.10	0.2				epPKP	20	59.30	
PEC	81.05	48	P	11	01.00	0.4		1.0s	10.00nm			5.1mb		ECP	149.24	9	ePKP	18	27.40	4.1X
	0.8s	12.66nm			4.5mb		YKA	98.25	25	eP	12	19.00	-1.4		0.9s	115.00nm				
FRI	81.11	44	iPd	11	01.20	0.5		0.8s	4.50nm			4.9mb		YLV	149.38	314	ePKP	18	28.30	4.3X
CMB	81.29	43	iPd	11	02.10	0.4	GUN	103.96	295	Pdiff	12	48.40	1.3	WTS	149.54	353	iPKPc	18	23.80	0.1
WDC	81.50	40	iPd	11	03.40	0.8	PKI	104.25	294	Pdiff	12	50.20	1.8		0.8s	10.00nm				
ORV	81.50	41	iPd	11	03.00	0.3	MBC	104.36	12	ePdiff	12	47.00	-0.3	PSZ	149.77	334	iPKP	18	28.70	4.3X
LTCM	81.52	41	P	11	03.30	0.6	KKN	104.43	294	Pdiff	12	50.60	1.6	PRU	149.87	342	iPKPd	18	30.00	5.7X
CLC	81.83	46	eP	11	05.00	0.5	DMN	104.52	294	Pdiff	12	51.00	1.5		0.8s	93.90nm				
DL2	81.88	317	P	11	05.00	0.5	GKN	105.04	294	Pdiff	12	51.00	-0.6				e	18	32.00	
	1.0s	100.00nm			5.3mb		GKN	105.04	294	PKP	17	00.40	-2.2X				e	18	38.00	
TPC	81.94	48	eP	11	05.00	-0.1	FRB	118.56	28	ePKPd	17	24.80	-2.1X	MOX	150.01	346	ePKP	18	24.00	-0.5
GSC	82.08	47	eP	11	06.00	0.2	SCH	120.52	38	ePKP	17	30.00	-1.0				i	18	30.00	
GLA	82.23	50	eP	11	07.00	0 5	SOB1	128.85	123	ePKP	17	37.60	-10.7X				i	18	38.00	
LBFM	82.36	40	P	11	07.80	0 6				e	17	48.50		KHL	150.30	310	iPKP	18	29.00	3.5X
CN2	82.63	323	iPd	11	08.20	0.0				i	20	11.30		DST	150.35	313	ePKP	18	30.80	5.3X
	1.0s	100.00nm			5.3mb		KEV	129.55	348	ePKP	17	47.00	-0.9	PVL	150.44	322	iPKPd	18	32.00	6.6X
TIA	83.29	313	Pd	11	12.10	0.4		0.5s	9.80nm					BNT	150.45	315	iPKP	18	31.90	6.4X
KVN	83.33	43	P	11	12.50	0.4	SOD	131.65	347	ePKP	17	49.00	-2.9X	BUD	150.47	334	ePKP	18	30.70	5.4X
TNP	83.35	45	P	11	12.70	0.5	NUR	137.87	343	ePKP	17	52.00	-11.9X	SRO	150.48	336	iPKPd	18	31.20	5.9X
SNG	83.51	280	eP	11	15.10	1.9		0.7s	42.70nm								i	18	40.50	
	1.0s	106.00nm			5.4mb					i	18	04.70		EDC	150.49	315	iPKP	18	30.00	4.4X
PDB	83.91	12	P	11	12.80	-1.4	NB2	140.16	352	PKP	18	00.00	-8.1X	BNS	150.51	352	iPKPd	18	31.30	6.1X
BMW	84.80	35	P	11	19.60	0.7		0.6s	15.90nm						1.3s	364.00nm				
SVW	84.86	11	ePd	11	18.10	-0.8	UPP	140.18	347	iPKP	17	59.50	-8.5X	ZST	150.61	337	ePKP	18	25.40	-0.1
		e	11	37.50			HFS	140.66	350	ePKP	18	01.00	-7.9X				i	18	31.80	
		e	11	54.30				0.3s	41.30nm								i	18	42.10	
SHW	85.15	36	P	11	21.40	0.7	MUD	144.88	352	iPKPd	18	16.30	0.1				i	20	58.00	
VGB	85.54	37	P	11	22.70	0.3		0.5s	48.00nm					VKA	150.83	338	iPKPc	18	32.40	6.6X
GMW	85.71	35	P	11	23.70	0.5	EDR	144.90	3	iPKPd	18	16.80	0.5		0.8s	77.60nm				
BJI	86.00	316	eP	11	25.00	0.3		0.8s	149.00nm					ENN	150.85	353	iPKPc	18	25.60	-0.2

10d 01h

	0.8s	7.00nm			
KHC	150.91	342	PKP	18	25.90	-0.1
			i	18	43.00	
UCC	150.97	355	PKPd-	18	32.20	6.3X
GRF	151.00	346	ePKP	18	25.90	-0.2
			i	18	32.70	
			e	18	43.30	
MEM	151.00	353	PKPc	18	25.90	-0.1
			id	18	32.10	
			ec	18	42.00	
DIM	151.02	320	iPKPd	18	33.00	6.7X
TNS	151.04	350	iPKPd	18	32.30	6.1X
			i	18	42.20	
WET	151.09	343	ePKP	18	26.00	-0.2
			i	18	32.50	
SNF	151.26	355	iPKPd	18	32.81	6.5X
			ic	18	43.50	
KDZ	151.33	319	iPKPd	18	27.00	0.2
ALN	151.37	317	iPKPd	18	32.50	5.7X
PLD	151.49	321	ePKP	18	33.00	6.0X
ABH	151.51	351	ePKP	18	33.32	6.5X
PGB	151.52	322	iPKP	18	33.00	5.9X
DOU	151.65	355	iPKPd	18	33.70	6.8X
			ic	18	44.80	
YER	151.69	309	ePKP	18	34.90	7.4X
RZN	151.73	320	ePKP	18	27.00	-0.6
EZN	151.77	315	iPKP	18	33.50	6.1X
IZM	151.85	312	iPKP	18	33.80	6.1X
BEO	151.91	329	iPKP	18	34.00	6.5X
VTS	152.04	323	iPKPd	18	34.00	6.0X
BHG	152.39	342	iPKPd	18	35.10	7.0X
			e	18	49.10	
FUR	152.41	345	iPKPd	18	35.50	7.4X
			i	18	49.00	
SRS	152.75	320	ePKPc	18	34.90	6.1X
CDF	152.98	350	ePKP	18	28.00	-1.0
SOH	153.07	320	ePKPd	18	35.10	5.8X
KNT	153 13	321	ePKPc	18	35.85	6.5X
FLN	153.14	2	ePKP	18	28.10	-1.0
LDF	153.31	1	ePKP	18	28.40	-0.9
	0.9s	9.85nm			
LJU	153.36	338	e(PKP)	18	29.00	-0.5
			e	18	37.40	
THE	153.42	320	ePKPc	18	36.42	6.7X
FVI	153.44	341	PKP	18	29.30	-0.2
GRR	153.50	2	ePKP	18	28.70	-0.9
	1.1s	17.10nm			
HAU	153.52	351	ePKP	18	29.20	-0.5
GRG	153.55	321	ePKPd	18	36.98	7.0X
VBY	153.56	337	ePKPc	18	30.10	0.4
			i	18	38.40	
			i	18	53.80	
VOY	153.59	339	ePKP	18	29.20	-0.7
			i	18	37.30	
			e	18	53.70	
BSF	153.62	351	ePKP	18	29.20	-0.7
CEY	153.66	338	ePKP	18	37.90	8.0X
OGA	153.68	344	iPKPc	18	30.20	0.1
LPF	153.85	3	ePKP	18	29.40	-0.6
	0.9s	11.45nm			
TRI	153.91	339	ePKPd	18	38.10	7.9X
			e	18	54.40	
LIT	154.03	319	ePKPd	18	37.70	7.1X
CTI	154.26	342	PKP	18	30.50	-0.3
LOR	154.52	355	ePKP	18	30.40	-0.6
	0.7s	4.40nm			
SSF	154.75	355	ePKP	18	30.80	-0.5
	0.7s	3.85nm			
LBF	154.79	355	ePKP	18	30.70	-0.7
	1.1s	8.55nm			
SMF	155.14	355	ePKP	18	31.00	-0.9
	0.9s	4.90nm			
VAI	155.15	346	PKP	18	32.10	0.3
BGF	155.30	356	ePKP	18	31.50	-0.6
	1.1s	11.00nm			
MFF	155.30	1	ePKP	18	31.50	-0.6
	0.7s	6.60nm			
BCAO	155.52	228	iPKPc	18	33.10	-0.3
	0 5s	10.00nm			
			i	19	04.10	
			i	21	08.50	
TCF	155.60	357	ePKP	18	31.90	-0.6
	1.1s	11.00nm			
LSF	155.66	359	ePKP	18	31.80	-0.8
	0.9s	8.20nm			
LPL	155.88	350	ePKP	18	33.00	-0.2
LPG	155.90	350	ePKP	18	32.90	-0.4

BOB	156.04	345	PKP	18	39.40	6.2X
PGD	156.21	340	PKP	18	45.10	11.5X
MME	156.23	342	PKP	18	44.20	10.5X
CIO	156.32	337	ePKP	18	45.00	11.3X
BNI	156.34	349	PKP	18	34.00	0.3
CRE	156.36	339	PKP	18	44.30	10.6X
RJF	156.60	359	ePKP	18	33.60	-0.2
ASS	156.61	337	PKP	18	47.40	13.4X
CAF	156.96	357	ePKP	18	33.90	-0.4
LFF	156.98	360	ePKP	18	34.00	-0.3
LPO	157.23	359	ePKP	18	34.60	0.0
EPF	158.88	1	ePKP	18	36.40	-0.2
	1.1s	12.20nm			
GUD	160.83	11	ePKP	18	39.80	1.0
LIC	163.51	160	PKP	18	42.14	0.1
	0.9s	12.00nm			
KIC	163.73	160	PKP	18	42.38	0.2
	0.8s	10.50nm			
TIC	163.90	159	PKP	18	42.58	0.2
LKO	166.35	153	PKP	18	43.90	-0.5
	0.7s	9.00nm			

S.D. = 0.9 on 240 of 309 obs.

? MAR 10, 1991 02h 13m 30.44± 5.85s
40.071 N ±11.2km 19.252 E ±48.8km
DEPTH = 10.0km (geophysicist)
ALBANIA (391)
MD 3.1 (ATH).

KEK	0.55	130	iPbd	13	41.90	0.2
			eSb	13	51.00	
IGT	0.99	123	ePd	13	48.70	-0.5
OHR	1.57	48	ePn	12	56.20	-62.3X
KZN	1.94	82	ePn	14	03.00	-0.9
LIT	2.48	88	ePd	14	12.48	0.9
SKO	2.52	40	ePn	14	12.00	-0.1
			eSn	14	41.00	
			LO	14	50.20	
GRG	2.56	69	iPc	14	12.04	-0.6
VAY	2.81	63	ePn	13	19.40	-56.9X
KNT	2.98	67	ePd	14	19.24	0.6
PAIG	3.40	91	iPc	14	25.06	0.4

S.D. = 0.8 on 8 of 10 obs.

& MAR 10, 1991 02h 19m 29.02s
60.921 N 147.021 W
DEPTH = 2.0km
SOUTHERN ALASKA (2)
<AEIC>.

VZW	0.27	58	iP	19	36.00	1.6
			iS	19	40.00	
HIN	0.58	154	iP	19	40.98	0.3
			eS	19	50.46	
CVA	0.73	120	eP	19	43.13	-0.4
			S	19	54.44	
KLU	0.78	42	iP	19	44.00	-0.7
SGAM	0.99	114	iP	19	47.30	-1.2
			iS	20	01.66	
RAGM	1.27	114	eP	19	52.27	-1.1
			S	20	09.55	
HMT	1.48	112	eP	19	54.51	-2.3
			eS	20	13.63	
WAX	2.11	101	eP	20	03.23	-2.6
			eS	20	30.64	
BALM	2.28	85	eP	20	06.80	-1.6

9 obs. associated

MAR 10, 1991 03h 01m 01.30± 0.21s
41.430 N ± 4.4km 29.418 W ± 2.6km
DEPTH = 10.0km (geophysicist)
4.9mb (49 obs.) 4.3Msz (8 obs.)
AZORES ISLANDS REGION (404)

EZAM	15.48	80	eP	04	49.00	7.8X
STS	15.54	78	eP	04	48.50	6.5X
PTO	15.65	84	eP	04	40.50	-2.9X
ERUA	16.61	79	eP	05	00.00	4.3X
EPLA	17.73	87	eP	05	13.00	3.2X
ECB	18.86	47	eP	05	25.00	1.4
ECP	19.01	48	eP	05	25.00	-0.3
GUD	19.06	84	eP	05	27.00	0.7
AVE	19.25	108	eP	05	13.00	-15.4X
			i	05	27.50	
TOL	19.29	86	eP	05	28.00	-1.1
			ePP	07	05.00	
ETA	19.32	46	eP	05	27.00	-2.2

MAL	19.95	95	iP	05	36.00	-0.2
ECRI	20.00	78	eP	05	37.00	0.2
ECOG	20.39	93	eP	05	40.50	-0.5
ETOR	20.60	83	eP	05	44.00	0.9
TIO	20.68	113	iP	05	42.50	-1.5
IFR	20.79	104	iP	05	44.50	-0.7
LPF	21.14	62	eP	05	48.60	0.1
	1.2s	107.10nm			5.1mb	
GRR	21.31	61	eP	05	50.30	0.1
	1.1s	39.05nm			4.7mb	
MFF	21.61	66	eP	05	53.00	-0.2
	1.3s	86.65nm			5.0mb	
FLN	21.61	60	eP	05	53.20	-0.1
	1.2s	47.60nm			4.8mb	
Z	21s	1.10um			4.2Msz	
ECHE	21.67	85	eP	05	55.00	1.0
LDF	21.82	61	eP	05	55.20	-0.2
	1.2s	50.60nm			4.8mb	
EPF	22.04	76	eP	05	57.20	-0.5
	1.6s	139.90nm			5.1mb	
EKA	22.13	42	P	06	00.00	1.6
	1.5s	17.40nm			4.3mb	
LFF	22.21	71	eP	05	59.20	0.0
	1.1s	51.30nm			4.9mb	
EROO	22.43	82	eP	06	03.00	1.5
EBR	22.49	82	eP	06	08.00	5.9X
LPO	22.53	71	eP	06	02.40	-0.1
	1.3s	97.50nm			5.1mb	
RJF	22.75	70	eP	06	04.20	-0.4
	1.3s	57.75nm			4.9mb	
Z	21s	1.02um			4.2Msz	
LSF	22.75	67	eP	06	05.00	0.3
CAF	23.15	71	eP	06	08.10	-0.5
	1.4s	71.90nm			5.0mb	
TCF	23.23	67	eP	06	09.70	0.4
	1.2s	71.40nm			5.1mb	
MAF	23.47	67	eP	06	11.80	0.1
	1.0s	44.00nm			5.0mb	
BGF	23.67	67	eP	06	13.60	0.0
	0.9s	45.05nm			5.0mb	
AVF	24.02	66	eP	06	16.90	0.0
	1.3s	36.10nm			4.8mb	
SSF	24.13	65	eP	06	18.10	0.1
	1.7s	95.60nm			5.1mb	
SMF	24.36	66	eP	06	19.70	-0.5
	1.1s	19.55nm			4.6mb	
LOR	24.38	65	eP	06	20.40	-0.1
	1.2s	35.70nm			4.9mb	
Z	21s	1.10um			4.3Msz	
LBF	24.45	66	eP	06	21.40	0.2
	1.1s	17.10nm			4.6mb	
SNF	24.94	57	P	06	26.40	0.6
UCC	25.03	57	P	06	27.10	0.5
DOU	25.08	58	P	06	31.80	4.7X
			S	11	01.00	
ENN	26.01	57	eP	06	37.00	1.2
	1.1s	50.00nm			5.1mb	
HAU	26.08	63	eP	06	36.00	-0.6
	1.1s	24.40nm			4.8mb	
Z	19s	0.95um			4.4Msz	
BSF	26.38	64	eP	06	39.00	-0.4
	1.1s	22.00nm			4.8mb	
LPL	26.41	69	eP	06	40.40	0.5
	1.2s	20.85nm			4.7mb	
LPG	26.42	69	eP	06	40.70	0.6
	1.2s	31.25nm			4.9mb	
CDF	26.71	62	eP	06	41.20	-1.2
	0.9s	22.95nm			4.9mb	
WTS	26.73	54	eP	06	43.00	0.6
	1.0s	25.00nm			4.9mb	
ABH	26.96	59	eP	06	44.60	0.0
SCH	27.94	311	eP	06	59.00	5.5X
GRF	29.33	60	iPc	07	05.80	-0.2
	1.3s	7.00nm			4.3mb	
Z	18s	0.90um			4.4Msz	
			e	07	09.70	
MOX	29.60	58	eP	07	13.00	4.5X
CLL	30.50	57	e(P)	07	16.00	-0.5
FVI	30.51	66	P	07	16.50	0.0
KBA	30.85	65	iPc	07	19.90	0.1
	1.3s	63.80nm			5.3mb	
			i	07	24.80	
KHC	30.87	61	P	07	20.20	0.4
BRG	31.09	57	e(P)	07	19.50	-2.1
NB2	31.39	37	P	07	24.20	-0.1
	1.3s	15.70nm			4.8mb	
PRU	31.47	59	eP	07	26.50	1.5

1.5s 22.30nm 4.9mb
Z 18s 1.00um 4.5Msz
E 18s 0.60um
e 07 28.60
VBY 32.36 67 e(P) 07 24.10 -8.7X
KSP 32.58 57 eP 07 34.70 0.1
ZST 33.27 62 eP 07 44.10 3.4X
SRO 34.12 63 eP 07 51.80 3.7X
KRA 34.95 59 eP 07 56.70 1.6
e 07 59.50
SPC 35.23 60 eP 08 02.00 4.2X
NUR 37.70 41 eP 08 08.00 -10.2X
LKO 38.09 140 P 08 21.54 -0.5
0.7s 9.50nm 4.7mb
KAF 38.66 38 eP 08 26.00 -0.2
SOD 39.61 30 iP 08 34.20 0.1
MLR 39.72 65 eP 08 39.00 3.5X
e 26 43.00
KEV 40.29 27 eP 08 36.00 -3.7X
TIC 40.88 141 P 08 45.16 0.0
0.7s 6.50nm 4.5mb
LIC 41.25 141 P 08 47.90 -0.2
Z 20s 0.30um 4.2Msz
KIC 41.26 141 P 08 48.08 -0.2
0.8s 5.50nm 4.3mb
FFC 48.11 312 iPd 09 43.70 0.8
0.9s 21.00nm 5.2mb
MBC 50.19 342 ePd 09 59.00 0.4
1.0s 42.00nm 5.4mb
SOB1 51.48 195 (P) 10 09.00 0.0
YKA 52.18 324 eP 10 11.60 -2.2
1.0s 3.40nm 4.2mb
SES 54.79 309 ePd 10 33.20 -0.2
1.2s 67.00nm 5.5mb
EDM 54.93 313 ePc 10 34.50 0.1
GOL 55.93 295 P 10 41.90 -0.1
1.1s 6.41nm 4.6mb
BCAO 56.44 117 iPc 10 44.60 -1.1
0.9s 32.00nm 5.4mb
i 10 49.20
INK 57.06 335 eP 10 48.00 -1.4
BW06 57.26 300 P 10 51.00 -0.5
1.0s 10.42nm 4.8mb
LRM 57.66 305 eP 10 54.00 -0.2
ALO 59.04 291 eP 11 04.00 0.0
1.0s 5.00nm 4.6mb
NEW 59.30 309 P 11 04.40 -1.0
1.0s 45.00nm 5.6mb
BAO 59.32 201 ePc 11 06.00 0.1
PNT 60.22 311 eP 11 11.00 -0.7
0.9s 16.00nm 5.1mb
SIV 64.20 214 eP 11 33.00 -5.5X
IMA 64.59 338 P 11 40.60 -0.1
1.2s 10.42nm 4.9mb
TNP 64.68 299 P 11 42.00 0.2
1.3s 16.84nm 5.1mb
KVN 64.72 301 P 11 41.60 -0.4
GSC 65.97 297 eP 11 30.00 -19.9X
TPC 66.13 295 eP 11 52.00 1.0
PMR 66.38 333 P 11 51.10 -0.9
1.2s 25.00nm 5.3mb
CMB 66.77 301 eP 11 55.50 0.5
FRI 66.93 300 eP 11 56.00 0.1
SBB 67.00 297 eP 11 56.00 -0.6
PLM 67.12 295 eP 12 04.00 6.5X
BAR 67.38 294 eP 12 01.00 2.1
ZOBO 67.66 220 iPc 12 02.00 0.6
1.1s 15.95nm 5.1mb
Z 20s 0.31um 4.5Msz
LR 34 16.00
LPB 67.87 220 P 12 04.00 1.5
CNCB 68.05 220 eP 12 04.00 0.2
ILT 68.56 348 eP 12 06.00 0.4
1.3s 22.00nm 5.2mb
e 16 37.00
NAI 73.23 107 eP 12 28.00 -6.8X
LZH 91.77 36 eP 14 11.00 0.3
1.2s 16.00nm 5.3mb
pP 14 17.00 19kmX
sP 14 20.50
S.D. = 0.8 on 88 of 109 obs.

MAR 10, 1991 03h 13m 10.42± 1.02s
38.688 N ± 9.5km 21.808 E ± 7.8km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 3.1 (ATH). MD 3.2 (THE).

VLS 1.08 242 ePb 13 30.80 0.0
eSg 13 48.20
IGT 1.42 307 ePc 13 36.06 -0.3
eS 13 56.78
LIT 1.51 20 ePd 13 37.62 0.1
eS 13 57.94
KZN 1.62 359 ePb 13 38.30 -0.8
ATH 1.66 115 ePg 13 48.00 8.3X
KEK 1.87 304 ePg 13 48.10 5.4X
PAIG 1.91 49 iPd 13 43.54 0.3
iS 14 06.58
FNA 2.12 351 ePd 13 46.10 -0.3
GRG 2.31 11 ePc 13 48.98 -0.2
SOH 2.44 29 ePd 13 51.00 0.0
eS 14 21.00
OHR 2.54 343 ePn 13 53.80 1.4
KNT 2.61 18 ePd 13 53.46 0.1
VAY 2.69 12 ePn 13 58.60 4.0X
SRS 2.79 29 ePc 13 55.62 -0.3
SKO 3.29 355 ePn 14 03.00 0.0
S.D. = 0.6 on 12 of 15 obs.

% MAR 10, 1991 03h 26m 13.90± 1.25s
42.041 N ± 8.6km 13.605 E ±11.4km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)
AZI 0.14 247 P 26 16.60 -0.5
eSg 26 19.60
AQU 0.35 334 P 26 20.50 -0.6
eSg 26 28.90
SDI 0.37 155 P 26 21.70 0.2
eSg 26 27.50
RMP 0.71 251 P 26 27.70 -0.2
eSg 26 39.50
MNS 0.77 297 P 26 30.00 1.1
S.D. = 1.0 on 5 of 5 obs.

& MAR 10, 1991 03h 41m 02.94s
45.551 N 126.735 W
DEPTH = 2.6km
OFF COAST OF OREGON (30)
<SEA>.

BMW 2.61 68 P 41 39.07 -7.8
RVW 2.85 76 P 41 43.26 -7.0
CPW 2.87 59 P 41 43.44 -7.2
SMW 2.94 52 P 41 44.26 -7.3
APW 3.05 67 P 41 45.48 -7.6
LVP 3.07 79 P 41 46.40 -7.0
ERK 3.16 75 P 41 47.03 -7.6
SHW 3.21 77 P 41 48.75 -6.6
TDL 3.25 74 P 41 49.33 -6.7
SOSW 3.28 76 P 41 49.43 -7.0
LMW 3.29 69 P 41 49.64 -6.9
HDW 3.29 49 P 41 49.69 -6.9
KOSW 3.30 72 P 41 49.83 -6.8
GMW 3.38 52 P 41 50.65 -7.1
APM 3.55 85 P 41 52.37 -7.8
LON 3.63 69 P 41 55.02 -6.3
ASR 3.64 79 P 41 53.73 -7.8
GLK 3.71 72 P 41 56.11 -6.4
FMW 3.77 67 P 41 56.19 -7.4
WPW 3.79 71 P 41 56.19 -7.5
GSM 3.80 62 P 41 57.81 -6.0
GL2 4.16 82 P 42 02.64 -6.2
JCW 4.22 50 P 42 02.78 -6.9
TBM 4.55 67 P 42 07.26 -7.1
RPW 4.60 49 P 42 08.07 -7.0
MBW 4.62 44 P 42 08.39 -7.1
ETW 4.87 63 P 42 11.90 -7.2
27 obs. associated

MAR 10, 1991 03h 53m 43.65± 0.21s
3.792 S ± 3.6km 144.396 E ± 4.9km
DEPTH = 26.2km (6 depth phases)
5.1mb (19 obs.) 5.2Msz (15 obs.)
NEAR N COAST OF PAPUA NEW GUINEA(200)
Mo=6.0•10••17 Nm (PPT).
CENTROID, MOMENT TENSOR (HRV)
Dota Used: GDSN
L.P.B.: 19S, 38C
Centroid Location:
Origin Time 03:53:48.0 0.4
Lat 3.47S 0.04 Lon 144.53E 0.03
Dep 15.0 FIX Half-duration 2.5
Moment Tensor; Scale 10••17 Nm
Mrr= 0.25 0.08 Mtt=-2.86 0.11
Mff= 2.62 0.12 Mrt=-0.80 0.26
Mrf= 0.12 0.35 Mtf= 2.23 0.08
Principal Axes:
T Val= 3.42 Plg= 3 Azm=110
N 0.39 79 214
P -3.81 11 19
Best Double Couple:Mo=3.6•10••17
NP1:Strike=155 Dip=80 Slip=-174
NP2: 64 84 -10

MNDI 2.46 197 eP 54 29.00 5.9X
YYYY 2.89 147 eP 54 31.60 2.5
PMG 6.22 154 eP 55 16.00 -0.1
RAB 7.77 93 iP+ 55 36.00 -1.9
iS 57 32.00
MTN 15.90 235 eP 57 27.00 -0.4
SVO 16.21 110 eP 57 31.00 -0.4
CTA 16.30 174 iPd 57 35.80 3.3X
1.5s 208.33nm 5.0mb
iS 00 37.00
HNR 16.43 111 eP 57 32.00 -2.1
eS 00 49.00
GUA 17.23 2 eP 57 44.00 -0.2
1.2s 400.00nm 5.4mb
OIS 17.30 195 ePc 57 44.20 -1.0
i 57 54.80
e 02 54.00
WB2 18.81 211 iPc 58 02.20 -1.6
0.3s 37.50nm 5.1mb
KNA 19.43 231 eP 58 10.00 -1.2
0.8s 197.00nm 5.4mb
KUPT 21.57 252 ePd 58 29.00 -4.5X
eS 02 47.60
DAV 21.67 300 eP 58 38.00 3.5X
ASPA 22.21 206 iPd 58 38.50 -1.3
0.8s 39.70nm 4.9mb
eS 02 40.40
RMQ 22.95 170 iPd 58 49.60 2.5
1.0s 88.00nm 5.2mb
i 59 09.00 88kmX
CGP 23.11 302 eP 58 51.00 2.3
0.5s 4.50nm 4.2mb
MAP 24.70 305 eP 59 03.00 -1.1
BRS 24.79 162 iP 59 07.70 2.7
Z 18s 37.00um 5.9Msz
i 59 14.00 22km
i 59 32.00
eS 03 48.00
TSM 27.48 287 ePc 59 31.00 1.0
COO 27.57 166 e(P) 59 33.00 2.3
CMS 27.58 177 e(P) 59 31.00 0.3
e 59 37.00 21km
WARB 28.02 216 iPc 59 35.10 0.3
0.4s 30.00nm 5.4mb
DZM 28.06 132 iPc 59 42.40 7.1X
MBL 29.46 232 eP 59 47.00 -0.8
0.5s 13.00nm 5.0mb
OCP 29.49 309 eP 00 06.00 17.9X
BAG 30.94 311 eP 00 05.00 3.8X
eS 05 06.00
FORR 30.99 208 eP 00 00.20 -1.0
0.4s 48.00nm 5.7mb
ADE 31.46 189 e(P) 00 03.50 -1.9
BFD 33.27 183 eP 00 22.00 1.0
MEKA 33.58 225 eP 00 23.00 -1.0
NANU 33.61 234 eP 00 24.00 -0.2
TOO 33.63 178 eP 00 25.00 0.7
COOL 34.74 217 eP 00 33.00 -0.9
KLB 37.31 219 eP 00 55.00 -0.6
BAL 37.34 221 eP 00 55.50 -0.4
QZH 38.00 320 eP 01 01.00 -0.5
Z 28s 4.87um 5.2MszX
N 14s 1.64um
S 06 44.00
sS 07 03.00
NWAO 38.54 218 eP 01 07.00 1.1
Z 22s 5.80um 5.4Msz
MUN 38.55 220 eP 01 06.50 0.5
TAU 39.04 177 eP 01 16.00 6.1X
e 07 20.00
HKC 39.32 313 eP 01 16.00 3.5X
eS 07 20.00
GZH 40.40 313 P 01 21.50 0.1
Z 20s 2.10um 5.0Msz
E 15s 2.30um
PP 02 57.00

10d 04h

			S	07	27.00					S	10	01.00				0.7s	3.00nm						
			S	07	30.00			CD2	51.89	315	P	02	52.00	-0.4	BSF	123.03	327	ePKP	12	39.50	-0.1
MAT	40.54	352	(P)	01	15.00	-7.4X			Z 19s		3.70um			5.4Msz		0.8s	6.70nm						
			eS	07	24.00				E 12s		1.30um				HAU	123.16	328	ePKP	12	39.50	-0.2
QIZ	40.87	305	eP	01	22.00	-3.4X					sP	03	06.20			Z 21s		1.20um			5.5Msz
	N 15s		1.10um								S	10	16.00		LPG	124.43	325	ePKP	12	42.80	0.2
	E 15s		1.80um					HHC	53.61	329	P	03	04.80	-0.3		0.7s	3.30nm				
			eS	07	31.00				Z 28s		3.00um			5.2MszX	LPL	124.43	325	ePKP	12	42.70	0.1
			sS	07	47.50				N 16s		1.20um					0.9s	4.10nm				
SSE	41.15	329	P	01	27.50	0.0			E 15s		1.00um				LBF	125.06	328	ePKP	12	42.60	-0.9
	1.5s	30.00nm			4.8mb						pP	03	15.00	34km	SSF	125.26	328	ePKP	12	42.20	-1.6
	Z 20s	3.70um			5.2Msz						PP	05	04.00			1.0s	6.00nm				
	N 13s	1.40um									S	10	36.50		SMF	125.35	328	ePKP	12	43.20	-0.8
	E 14s	2.70um						BTO	54.23	328	eP	03	09.00	-0.6		1.0s	7.00nm				
			pP	01	34.50	24km			N 15s		1.30um				AVF	125.51	328	ePKP	12	43.40	-0.9
			ePP	03	04.00				E 17s		2.10um				BGF	125.93	328	ePKP	12	44.60	-0.6
			eS	07	40.00						sP	03	21.00			1.0s	13.00nm				
			sS	07	51.00						ePP	05	15.00		BCAO	126.01	273	iPKPc	12	46.80	0.5
YAMJ	41.95	355	eP	01	38.40	4.5X					S	10	48.00			0.7s	12.00nm				
OFUJ	42.73	357	eP	01	40.70	0.4					sS	11	01.00		TCF	126.44	328	ePKP	12	46.50	0.3
NJ2	43.13	328	Pd	01	45.10	1.4		LZH	54.86	320	eP	03	14.00	-0.4		1.0s	8.00nm				
	Z 22s	1.50um			4.8Msz				5.0s	420.00nm				5.7mb X	LSF	126.82	328	ePKP	12	46.90	0.0
	N 11s	1.20um							Z 28s		3.22um			5.2MszX	CNCB	142.03	124	PKP	13	13.00	-3.9X
	E 11s	1.00um							N 14s		0.99um				LPB	142.06	123	PKP	13	16.00	-0.8
WHN	44.60	322	eP	01	57.70	2.0					sP	03	21.00		ZOBO	142.17	123	PKP	13	15.00	-2.2X
	Z 16s	1.50um			5.0MszX						sP	03	25.50			Z 24s	0.48um				5.2MszX
	N 16s	1.60um									eS	10	53.00				LR	01	28.00		
	E 16s	1.40um									sS	11	06.00		CCH	143.24	126	PKP	13	15.50	-3.1X
SNG	45.03	284	eP	01	38.90	-20.4X		PET	57.86	10	eP	03	42.00	6.7X	SHGH	144.51	275	ePKP	13	19.00	-1.5
			eS	08	38.00				Z 18s		1.20um			5.0Msz	LEGH	144.65	274	ePKP	13	20.00	-0.7
HOOJ	45.97	359	eP	02	06.20	-0.1					ePP	06	12.00		KOGH	144.70	275	ePKP	13	20.00	-0.9
KUSJ	46.67	0	P	02	10.90	-0.9					eS	11	42.00		KUK	144.82	275	ePKP	13	20.00	-1.0
TIA	47.26	330	eP	02	15.60	-1.1					eSS	15	24.00		SDV	144.83	80	ePKP	13	20.50	-0.8
	Z 29s	2.50um			5.0MszX						eSS	20	28.00		TOV	145.55	78	ePKP	13	22.70	0.4
	N 16s	2.10um						GTA	59.40	321	Pc	03	44.40	-2.1	SIV	148.05	129	PKP	13	26.00	-0.3
			S	09	09.50				1.0s	10.00nm				4.9mb	OLLA	148.43	77	ePKP	13	29.80	2.8X
GYA	47.29	312	P	02	20.00	2.8			Z 22s		1.90um			5.2Msz	KIC	149.16	276	PKP	13	32.44	4.4X
	Z 26s	1.40um			4.8MszX				N 15s		1.00um					1.1s	41.00nm				
	N 18s	2.00um									sP	03	54.00		TIC	149.42	277	PKP	13	32.94	4.5X
	E 18s	2.20um									S	11	57.00		LIC	149.45	276	PKP	13	33.10	4.6X
DL2	47.41	336	eP	02	18.00	0.3					sS	12	06.00		LKO	149.66	282	PKP	13	33.20	4.4X
	Z 20s	1.50um			5.0Msz			LSA	60.85	307	P	03	58.00	1.0	PPD	150.09	150	ePKP	13	34.80	5.5X
	N 12s	0.70um						GUN	64.49	303	P	04	21.10	-0.1	VAO	151.15	158	ePKP	13	38.10	7.2X
	E 13s	1.50um						PKI	64.78	303	P	04	22.80	-0.2			e		13	45.80	
ASAJ	47.72	358	P	02	20.40	0.3			1.0s	60.00nm				5.7mb	BMA	152.38	163	ePKP	13	40.40	7.7X
NST	47.88	295	eP	02	23.80	2.0		KKN	64.96	303	P	04	23.80	-0.2	BAO	157.13	148	e(PKP)	13	41.00	1.6
KHT	48.99	293	eP	02	30.50	0.1		DMN	65.04	303	P	04	24.40	-0.2		S.D. = 1.1	on 106 of 136 obs.				
SNY	49.20	339	eP	02	32.00	0.4		GKN	65.56	303	P	04	27.20	-0.6	---						
	1.4s	30.00nm			5.1mb			KOD	68.08	283	eP	04	44.00	-0.2	• MAR 10, 1991 04h 00m 32.60± 2.02s						
	Z 18s	2.10um			5.2Msz			HYB	68.26	290	eP	04	43.50	-1.4	3.872 S ±12.5km 144.365 E ±20.1km						
	N 13s	1.30um						GBA	68.63	286	P	04	47.00	-0.2	DEPTH = 68.5 ± 22.7 km						
	E 14s	1.10um						WMO	69.44	320	P	04	52.00	0.2	5.0mb (9 obs.)						
		S	09	30.00					Z 20s		1.20um			5.1Msz	NEAR N COAST OF PAPUA NEW GUINEA(200)						
		sS	09	46.00				NDI	72.02	302	iPd	05	06.80	-0.8							
BDT	49.44	296	eP	02	29.20	-4.6X		POO	72.87	291	eP	05	04.50	-8.3X	MNDI	2.37	197	eP	01	12.00	1.8
KMI	49.60	308	Pd	02	38.20	2.9		VNDA	74.26	176	(P)	05	22.00	2.2	YYYY	2.84	146	eP	01	15.20	-1.5
	Z 30s	3.50um			5.2MszX			KSH	75.96	312	eP	05	35.00	4.6X	PMG	6.16	153	eP	01	58.00	-5.0X
MDJ	49.98	346	eP	02	34.50	-3.1X		ILT	76.05	14	eP	05	30.50	0.3	RMQ	22.88	170	iPc	05	37.00	5.8X
	Z 26s	1.80um			5.0MszX				Z 20s		0.60um			4.9Msz		0.3s	13.00nm			4.8mb	
	N 14s	1.00um									i	05	37.00	21km	CMS	27.50	177	eP	06	16.00	1.4
	E 14s	1.80um									i	05	55.00		WARB	27.94	216	eP	06	18.00	-0.7
		pP	02	45.00	36km						e	06	14.00		STK	27.98	185	eP	06	39.80	20.9X
		PP	04	28.00							e	06	33.00			0.7s	8.90nm				
		eS	09	39.00							e	07	03.00		FORR	30.91	208	eP	06	43.30	-1.7
CHG	50.06	298	iPc	02	39.10	0.5					eS	15	16.00			0.4s	21.00nm			5.2mb	
	1.0s	27.00nm			5.2mb						e	16	12.00		MAT	40.61	352	eP	08	06.00	-1.4
		eS	10	04.00							e	19	24.00			1.5s	36.11nm			5.0mb	
CHTO	50.06	298	iPc	02	39.10	0.5					e	28	52.00		QIZ	40.89	305	eP	08	08.20	-1.7
	1.1s	26.80nm			5.2mb			SVW	79.34	25	eP	05	49.70	1.2	TIA	47.31	330	eP	09	02.60	1.3
XAN	50.34	321	P	02	40.40	-0.2		TTA	80.06	24	eP	05	53.40	1.0	SNY	49.26	340	eP	09	16.40	0.1
	N 13s	1.20um						QUE	81.09	301	iPd	05	59.60	0.9		1.2s	20.00nm			5.0mb	
	E 15s	1.70um						PMR	82.37	26	eP	06	04.60	0.2	CHTO	50.07	298	eP	09	22.10	-0.8
		S	09	50.00					1.3s	43.30nm				5.4mb		1.3s	9.80nm			4.7mb	
CN2	50.35	342	eP	02	39.40	-1.0		IMA	82.44	21	eP	06	05.90	1.0			pP		09	28.70	22kmX
	5.0s	500.00nm			5.8mb X				1.0s	10.80nm				4.9mb	XAN	50.39	321	eP	09	23.20	-1.9
	Z 17s	6.40um			5.7MszX			BRW	84.02	16	eP	06	15.10	2.4	CN2	50.42	342	eP	09	27.20	2.1
	N 15s	0.40um						FBA	84.18	23	eP	06	13.00	-0.7	TIY	50.90	327	eP	09	31.40	2.4
	E 15s	1.80um						INK	90.57	22	eP	06	44.00	-0.4	CD2	51.92	315	P	09	42.00	5.2X
BJI	50.74	332	eP	02	42.50	-0.9		MBC	95.15	14	eP	07	06.00	0.6	HHC	53.66	329	eP	09	52.20	2.6X
	6.0s	430.00nm			5.6mb X			YKA	98.43	27	eP	07	19.30	-1.2		Z 16s	1.20um			5.0MszX	
	Z 20s	3.28um			5.3Msz				1.0s	1.50nm				4.5mb		N 12s	0.40um				
		eS	09	52.00				BUL	112.66	246	iPKPd	12	21.60	1.0		E 16s	1.10um				
TIY	50.85	327	Pd	02	43.50	-0.9			0.7s	4.45nm					BTO	54.28	328	eP	09	53.00	-1.2
	Z 22s	2.40um			5.2Msz			CLL	117.73	328	e(PKP)	12	29.00	-0.2	LZH	54.90	320	eP	09	58.50	-0.3
	N 20s	3.60um						KHC	118.55	326	ePKP	12	31.00	0.1		1.5s	20.00nm			4.9mb	
	E 18s	3.20um						MOX	118.83	328	ePKP	12	40.00	8.7X			pP		10	03.80	17kmX
		sP	02	56.50				GRC1	119.77	326	e(PKP)	12	31.90	-1.3	GTA	59.44	321	P	10	32.80	2.0

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GUN     64.51 303 P       11 04.16  -1.1
PKI     64.79 303 P       11 05.84  -1.2
        1.0s    20.00nm          5.0mb
KKN     64.97 303 P       11 07.20  -0.8
DMN     65.06 303 P       11 07.42  -1.2
        0.9s    54.00nm          5.5mb
GKN     65.58 303 P       11 10.94  -0.9
        0.7s    51.00nm          5.6mb
KOD     68.07 283 eP      11 30.00   2.0
HYB     68.26 290 eP      11 30.00   1.2
GBA     68.62 286 P       11 30.00  -1.0
WMO     69.48 320 eP      11 38.00   2.1
ILT     76.13  14 eP      12 14.00  -0.4
                  e       12 34.00
                  e       13 16.00
INK     90.65  22 eP      13 22.00  -6.5X
BCAO   125.98 273 iPKPc    19 31.00   1.4
        0.6s     6.00nm
SIV    148.02 129 PKP     20 11.60   2.0X
KIC    149.13 276 PKP     20 15.32   3.9X
TIC    149.39 276 PKP     20 15.96   4.1X
LIC    149.43 276 PKP     20 15.96   4.1X
LKO    149.65 282 PKP     20 16.40   4.2X
PPD    150.03 150 ePKP    20 17.00   4.4X
VAO    151.09 158 (PKP)   20 17.00   2.8X
     S.D. = 1.5  on  27 of  40 obs.
-------------------------------------
%  MAR  10, 1991  05h 38m 03.65± 0.80s
   43.106 N ± 6.3km   11.440 E ± 7.7km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                    (381)

CRE     0.64  35 P       38 16.20  -0.4
MAO     0.72 197 P       38 17.70  -0.1
PGD     0.80  15 P       38 18.90  -0.3
                eSg      38 29.80
BDI     1.13 328 P       38 25.10   0.2
                eSg      38 42.10
ARV     1.16  70 P       38 25.90   0.5
MME     1.21 334 P       38 26.60   0.2
     S.D. = 0.4  on   6 of   6 obs.
-------------------------------------
   MAR  10, 1991  05h 55m 36.64± 1.49s
   46.564 N ±10.9km   14.205 E ±13.0km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                       (383)
      ML 2.8 (KBA). Felt (IV) at St.
      Veit, Austria.

VOY     0.57 202 ePg      55 48.00  -0.4
                iSg      55 58.40
KBA     0.78 311 iPgc     55 48.40  -3.6X
                id       55 48.70
                iSg      55 59.30
TRI     0.91 200 P        55 54.00   0.0
FVI     0.98 272 P        55 53.60  -1.7
                eSg      56 07.80
VBY     1.29 145 eP       56 00.40  -0.1
                e(Sn)    56 29.10
CTI     1.84 255 P        56 10.60   1.9
                eSn      56 37.20
WTTA    1.89 293 iPgd     56 09.00  -0.5
                iSg      56 34.90
WATA    1.96 294 iPgd     56 10.00  -0.4
                iSg      56 36.80
SOTA    2.16 289 iPgc     56 13.40   0.2
                i        56 14.00
                i(Sg)    56 43.80
MOTA    2.26 291 iPgd     56 15.80   1.0
                i        56 47.40
                i(Sg)    56 49.40
     S.D. = 1.1  on   9 of  10 obs.
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&  MAR  10, 1991  06h 04m 45.92s
   59.977 N          153.142 W
   DEPTH = 126.9km
   3.9mb (  2 obs.)
 SOUTHERN ALASKA                  (  2)
      <AEIC>.

RED     0.48  22 iPc      05 04.18  -0.7
                eS       05 18.00
RS2     0.52  21 ePc      05 04.69  -0.6
RSO     0.52  22 ePc      05 04.65  -0.6
REF     0.56  23 iPc      05 04.86  -0.6
                iS       05 19.43
PDB     0.56 251 iPd      05 04.50  -0.8
                iS       05 18.57
RDN     0.57  19 ePc      05 04.84  -0.7
                iS       05 19.30
NCT     0.60  10 eP       05 04.77  -0.9
                iS       05 19.64
AUE     0.63 191 iPd      05 04.85  -0.8
                iS       05 19.00
AUH     0.63 194 ePd      05 05.06  -0.8
                eS       05 20.49
AUI     0.66 193 iPd      05 04.99  -0.9
                eS       05 19.58
RDT     0.70  31 iPc      05 05.59  -0.8
                iS       05 20.56
HOM     0.82 112 iPc      05 06.52  -0.7
                iS       05 22.59
XLV     0.89 125 iPc      05 06.56  -1.3
                eS       05 22.43
NNL     0.93  85 iPc      05 08.26   0.1
MCNL    1.00 218 iPd      05 07.77  -1.1
                eS       05 24.39
CNPM    1.07 114 iPc      05 08.45  -1.1
                eS       05 25.64
CDD     1.08 194 iPd      05 08.43  -1.2
                iS       05 26.12
BRLK    1.16 100 iPc      05 09.50  -1.0
                eS       05 26.44
NKA     1.22  50 iPd      05 11.97   1.0
CKL     1.29  18 iPd      05 11.46  -0.4
SPU     1.32  23 iPd      05 11.50  -0.7
                eS       05 31.25
BGL     1.34  16 iPd      05 12.25  -0.3
CRP     1.38  20 iPd      05 12.62  -0.4
                eS       05 32.42
SYI     1.42 164 iPd      05 12.09  -1.2
                eS       05 31.80
NCG     1.51  18 iPd      05 13.91  -0.5
SLKM    1.55  69 ePc      05 13.73  -1.1
                S        05 34.36
SVW     1.67 314 ePd      05 15.70  -0.5
SEW     1.86  84 ePc      05 17.12  -1.2
                eS       05 40.17
SUA     1.90  37 iPd      05 18.22  -0.9
                eS       05 43.51
SKT     2.16  21 iPd      05 21.09  -1.1
                eS       05 49.62
PMS     2.18  53 ePd      05 20.84  -1.6
PWA     2.32  42 ePd      05 22.55  -1.6
PLRM    2.55  49 ePd      05 24.64  -2.5
                eS       05 55.03
PMR     2.55  49 ePd      05 25.10  -2.0
LTI     2.66  86 eP       05 27.17  -1.4
                S        05 57.41
KNK     2.72  56 iPd      05 26.98  -2.4
KNIM    2.73  80 eP       05 26.95  -2.5
GHO     2.74  47 iPd      05 27.30  -2.4
MTU     2.76  87 ePc      05 28.52  -1.4
CUT     2.81  28 ePd      05 28.93  -1.5
GLI     3.13  71 eP       05 32.90  -1.9
TTA     3.27 336 iPd      05 35.90  -0.8
VZW     3.43  69 eP       05 36.50  -2.4
HUR     3.45  28 eP       05 37.90  -1.1
MID     3.49  96 e(P)     05 37.20  -2.3
VLZ     3.56  68 eP       05 38.79  -1.6
TOA     4.01  55 iPd      05 45.60  -1.0
FBA     5.53  24 iP       06 05.10  -2.0
IMA     6.12 358 eP       06 13.90  -1.5
INK    11.90  37 P        07 30.00  -2.4
       0.2s      1.20nm          4.2mb X
YKA    18.53  66 eP       08 52.00  -2.8
       0.5s      2.60nm          3.8mb
MBC    20.07  23 eP       09 10.00  -0.7
       0.8s      5.00nm          3.9mb
       52 obs. associated
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%  MAR  10, 1991  06h 18m 33.77± 0.80s
   43.415 N ± 5.3km    5.430 E ± 6.6km
   DEPTH =  10.0km  (geophysicist)
 NEAR SOUTH COAST OF FRANCE       (379)
      MD 2.7 (STR).

GELF    0.03 183 Pg       18 35.49  -0.3
TREF    0.21 351 Pg       18 38.33   0.0
BERF    0.22 118 Pg       18 38.94   0.4
PUYF    0.23  59 Pg       18 38.33  -0.4
PRAF    0.43 334 Pg       18 42.70   0.1
VILF    0.48  25 Pg       18 43.86   0.3
TAVF    0.50  66 Pg       18 43.75  -0.2
     S.D. = 0.4  on   7 of   7 obs.
-------------------------------------
?  MAR  10, 1991  06h 37m 55.99± 1.29s
   61.042 N ±24.0km  166.527 E ±23.9km
   DEPTH =  10.0km  (geophysicist)
   4.2mb (  4 obs.)
 EASTERN SIBERIA                  (671)

ILT     9.36  36 eP      40 13.00  -0.7
                e       42 54.00
                e       43 00.50
                e       43 10.00
                i       43 18.00
INK    25.64  48 eP      43 28.50   1.8
YKA    35.18  52 eP      44 50.40  -1.1
       0.7s      0.40nm          3.4mb
NB2    56.78 346 P       47 43.00   1.0
       0.7s      1.90nm          4.2mb
SLL    57.06 345 eP      47 43.10  -0.9
       0.7s      2.10nm          4.3mb
WRA    84.76 210 P       50 31.00  -0.2
       0.8s      1.00nm          4.1mb
     S.D. = 1.5  on   6 of   6 obs.
-------------------------------------
?  MAR  10, 1991  06h 53m 17.11± 1.20s
   61.009 N ±25.0km  166.941 E ±27.5km
   DEPTH =  10.0km  (geophysicist)
   4.1mb (  3 obs.)
 EASTERN SIBERIA                  (671)

ILT     9.26  36 eP      55 33.00  -0.6
                e       55 47.00
                e       57 45.00
                e       58 06.00
                e       58 16.00
                e       58 23.00
INK    25.51  48 eP      58 48.00   1.4
YKA    35.04  52 eP      00 10.60  -0.8
       0.7s      0.60nm          3.6mb
NB2    56.86 346 P       03 03.80   0.1
       0.7s      1.70nm          4.2mb
WB2    84.83 211 iPc     05 52.50  -0.2
       0.7s      2.30nm          4.5mb
     S.D. = 1.2  on   5 of   5 obs.
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&  MAR  10, 1991  07h 03m 18.98s
   61.557 N          146.762 W
   DEPTH =  21.3km
 SOUTHERN ALASKA                  (  2)
      <AEIC>.

KLU     0.41  99 iPc      03 27.35  -0.2
                eS       03 34.01
VLZ     0.47 154 iPc      03 27.86  -0.7
                eS       03 35.25
VZW     0.51 169 iPc      03 28.54  -0.7
                eS       03 36.75
TOA     0.62  27 iPd      03 30.41  -0.6
                eS       03 39.16
GLI     0.70 193 ePc      03 31.41  -1.0
                S        03 42.16
TZL     0.80  52 iPc      03 32.95  -1.2
                eS       03 44.57
KNK     0.83 261 iPc      03 33.53  -1.0
                eS       03 45.42
GHO     1.05 283 iPc      03 36.47  -2.0
                S        03 50.66
CVA     1.13 154 ePc      03 37.91  -1.6
                eS       03 53.91
SDG     1.13  30 eP       03 37.56  -2.0
                eS       03 52.25
PLRM    1.13 273 iPc      03 37.81  -1.8
                eS       03 52.90
HIN     1.17 174 ePc      03 38.74  -1.4
                eS       03 55.54
KNIM    1.30 202 ePd      03 40.18  -1.8
                eS       03 57.03
SGAM    1.30 144 ePc      03 40.07  -1.9
PMS     1.38 258 iPc      03 41.90  -1.2
                eS       03 59.67
GLB     1.42  93 iPc      03 41.28  -2.4
                eS       03 59.69
PWA     1.49 275 iPc      03 43.18  -1.5
PAX     1.54  23 eP       03 43.68  -1.8
                S        04 02.74
RAGM    1.55 138 eP       03 44.40  -1.2
LTI     1.61 200 eP       03 45.13  -1.3
```

10d 07h

MTU	1.63	196	ePd	03 44.88	-1.9
HMT	1.73	134	eP	03 46.83	-1.3
CUT	1.86	299	ePc	03 48.65	-1.4
SUA	1.91	269	eP	03 49.13	-1.7
			eS	04 14.73	
HUR	1.96	318	eP	03 49.87	-1.6
			S	04 14.63	
SEW	1.96	223	eP	03 50.63	-0.9
SLKM	1.99	240	eP	03 50.55	-1.3
TGL	2.07	111	eP	03 50.47	-2.7
RND	2.09	333	ePd	03 51.81	-1.7
BALM	2.20	102	ePc	03 52.17	-2.8
WAX	2.21	119	eP	03 53.97	-1.1
SKT	2.31	283	ePc	03 54.24	-2.2
NKA	2.32	251	eP	03 57.40	0.8
TRF	2.51	321	eP	03 57.98	-1.5
SPU	2.58	264	eP	03 57.62	-2.7
NCG	2.59	269	eP	03 58.11	-2.5
CRP	2.61	266	eP	03 58.57	-2.4
CTGM	2.69	100	eP	03 59.77	-2.3
CKL	2.71	265	eP	03 59.58	-2.7
BRLK	2.71	230	eP	04 00.32	-1.9
BGL	2.72	266	eP	03 59.60	-2.8
YAH	2.72	114	eP	04 01.39	-1.2
WRG	2.77	121	eP	04 02.68	-0.4
HDA	2.86	358	eP	04 02.69	-1.6
BWN	2.90	336	eP	04 02.52	-2.3
RDT	2.92	253	eP	04 02.53	-2.6
CNPM	3.01	229	eP	04 03.57	-2.8
REF	3.08	252	eP	04 04.77	-2.9
RDN	3.10	253	eP	04 05.88	-2.0
RSO	3.12	252	eP	04 06.46	-1.7

50 obs. associated

? MAR 10, 1991 08h 14m 57.73± 8.79s
51.283 N ±65.9km 19.913 E ±53.5km
DEPTH = 10.0km (geophysicist)
POLAND (548)
ML 2.7 (KRA).

KRA	1.23	179	iPgc	15 20.10	-0.5
			iSg	15 29.60	
SPC	2.11	174	iPn	15 32.60	-1.1
			i(Sg)	15 51.90	
KSP	2.33	260	ePn	15 36.50	-0.1
			iPg	15 39.20	
			iS	16 04.00	
PSZ	3.37	180	eP	15 53.20	1.7
ZST	3.59	212	eP	15 58.40	3.9X
PRU	3.66	251	Pg	15 58.80	3.3X
			eSg	16 35.00	
KHC	4.60	245	ePg	16 09.00	0.0
			Sg	17 02.20	

S.D. = 1.5 on 5 of 7 obs.

? MAR 10, 1991 11h 26m 51.33± 1.11s
21.988 S ±12.8km 68.528 W ±17.7km
DEPTH = 106.5 ± 16.8 km
4.1mb (1 obs.)
CHILE-BOLIVIA BORDER REGION (124)

ANT	2.44	225	eP	27 30.50	0.1
			i	27 57.30	
CCH	5.10	27	eP	28 08.00	0.9
CNCB	5.18	6	P	28 11.00	2.6X
LPB	5.44	4	eP	28 11.00	-0.9
			e	28 32.00	
ZOBO	5.70	4	P	28 18.00	2.4X
			i	29 06.00	
SIV	9.23	51	P	29 01.00	-2.3X
ITB1	13.26	104	Pc	30 05.80	9.3X
ITB7	13.53	106	eP	30 08.50	8.4X
PPD	15.97	93	eP	30 35.00	3.8X
VAO	19.95	97	eP	31 17.00	-0.3
YKA	91.76	340	eP	39 47.90	0.3
	0.6s		0.70nm		4.1mb

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

• MAR 10, 1991 11h 33m 19.49± 1.08s
42.776 N ± 9.2km 18.283 E ± 8.3km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.2 (TTG).

BRY	0.23	57	iPgd	33 24.00	-0.5
			iSg	33 28.50	
HCY	0.37	154	ePg	33 26.50	-0.5
			eSg	33 33.00	
NKY	0.53	86	ePg	33 29.80	-0.4
			eSg	33 39.00	
BDV	0.64	141	ePg	33 31.50	-0.8
			eSg	33 42.50	
TTG	0.80	115	ePg	33 37.00	2.0
			eSg	33 49.00	
HVAR	1.41	287	iPg	33 45.30	0.2
			iSg	34 03.60	

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

% MAR 10, 1991 11h 43m 33.80± 1.33s
41.670 N ±14.5km 13.816 E ± 7.0km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SDI	0.04	360	Pc	43 35.30	-0.6
			iSg	43 37.50	
AZI	0.43	318	P	43 41.50	-1.0
			eSg	43 49.70	
DUI	0.48	91	P	43 43.40	-0.2
			eSg	43 52.50	
RMP	0.84	280	P	43 50.10	0.0
			eSg	44 02.50	
MNS	1.11	311	P	43 55.10	0.5
			eSg	44 11.00	
ARV	1.94	341	P	44 07.70	0.6

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

• MAR 10, 1991 11h 52m 20.28± 0.51s
61.061 N ±12.6km 166.793 E ±12.3km
DEPTH = 10.0km (geophysicist)
4.4mb (7 obs.)
EASTERN SIBERIA (671)

ILT	9.26	36	iPc	54 36.00	-0.7
	0.8s		26.00nm		5.7mb X
	Z 11s		1.00um		5.7MszX
			e	55 27.00	
			eS	57 22.00	
INK	25.53	48	eP	57 50.50	0.5
MAT	30.47	229	eP	58 35.00	-0.1
YKA	35.07	52	eP	59 14.30	-0.5
	0.8s		1.20nm		3.8mb
PNT	41.36	72	eP	00 00.00	0.5
	0.7s		4.00nm		4.3mb
NB2	56.79	346	P	02 07.30	1.0
	0.7s		4.20nm		4.6mb
HFS	57.36	344	eP	02 10.00	-0.3
	0.7s		2.80nm		4.4mb
CHTD	63.01	260	eP	02 49.20	-0.2
	0.7s		0.79nm		4.0mb
WB2	84.84	210	eP	04 55.80	-0.1
	0.6s		3.50nm		4.8mb
WRA	84.85	210	eP	04 55.80	-0.1
	0.6s		3.50nm		4.8mb

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

MAR 10, 1991 12h 26m 45.23± 0.20s
60.923 N ± 4.6km 167.248 E ± 2.5km
DEPTH = 10.0km (geophysicist)
5.2mb (67 obs.) 4.7Msz (3 obs.)
EASTERN SIBERIA (671)

SMY	9.03	152	P	28 52.90	-5.5X
PET	9.20	214	eP	29 06.00	5.2X
	Z 14s		5.10um		
	N 14s		5.00um		
	E 14s		6.00um		
			e	30 24.00	
			e	31 16.00	
			eLR	32 40.00	
ILT	9.25	35	iP	28 59.70	-1.8
	0.8s		140.00nm		6.4mb X
	N 12s		5.70um		
	E 12s		5.30um		
			e	29 04.40	
			i	29 09.40	
			i	29 41.00	
			i	30 27.00	
			i	30 38.00	
			i	30 47.40	
			i	31 03.00	
			i	31 10.00	
			i	31 36.40	
ANM	13.01	62	eP	29 51.50	-1.1
			i	29 55.10	
TTA	17.26	67	eP	30 49.20	1.6
BRW	17.56	39	eP	30 51.60	0.4
			e	30 54.80	
SDN	17.79	94	e(P)	30 59.70	5.6X
SVW	17.84	73	eP	30 57.20	2.4
IMA	17.94	57	ePc	30 57.50	1.4
	1.2s		99.10nm		4.8mb
PDB	18.93	76	P	31 07.70	-0.4
FBA	20.50	59	iPc	31 25.80	0.2
	1.1s		15.97nm		4.3mb
PMR	20.70	69	eP	31 25.90	-1.7
	1.6s		97.60nm		4.9mb
TOA	21.88	66	ePc	31 40.50	0.8
	1.3s		50.47nm		4.8mb
KLU	22.19	68	P	31 42.80	0.0
INK	25.45	48	ePc	32 14.00	-0.2
	1.0s		90.00nm		5.4mb
MBC	28.28	29	ePd	32 39.80	-0.3
	1.0s		12.00nm		4.6mb
CN2	30.06	254	eP	32 56.00	-0.3
	1.0s		10.00nm		4.6mb
	Z 15s		3.30um		5.1MszX
	N 10s		0.50um		
	E 10s		0.50um		
			epP	33 05.00	31kmX
MAT	30.55	230	eP	33 00.00	-0.7
	1.0s		18.00nm		4.9mb
			eS	38 15.00	
SNY	32.46	254	Pd	33 17.80	0.5
	1.6s		50.00nm		5.2mb
	Z 16s		1.50um		4.8MszX
	N 14s		1.10um		
	E 14s		1.30um		
			eS	38 25.00	
YKA	34.98	52	eP	33 37.40	-1.5
	1.1s		14.00nm		4.7mb
BJI	37.37	260	eP	34 00.00	0.7
	1.4s		33.00nm		4.9mb
	Z 10s		0.96um		4.9MszX
			eS	39 44.00	
HHC	38.97	265	eP	34 13.60	0.6
BTO	39.92	266	eP	34 22.00	1.2
	N 14s		0.60um		
	E 12s		0.60um		
			eS	40 31.00	
TIY	41.00	261	Pd	34 30.80	1.1
	Z 20s		0.90um		4.6Msz
	N 13s		0.70um		
PNT	41.19	72	iPc	34 32.30	1.2
	0.8s		27.00nm		5.0mb
EDM	41.30	64	ePc	34 32.50	0.5
RMW	41.48	76	P	34 33.90	0.3
LON	41.99	76	P	34 38.60	0.9
SHW	42.20	77	P	34 41.20	1.7
DAG	42.51	2	iPc	34 41.60	0.1
	1.0s		40.00nm		5.1mb
NEW	43.10	71	iPc	34 46.40	-0.4
	0.9s		23.57nm		4.9mb
VGB	43.39	77	P	34 49.50	0.4
SES	44.31	65	ePc	34 57.00	0.4
	1.7s		326.00nm		5.9mb
FFC	45.02	55	iPc	35 01.80	-0.3
	1.6s		142.00nm		5.6mb
XAN	45.64	261	P	35 11.00	3.7X
GTA	45.82	274	P	35 08.80	0.0
	1.0s		10.00nm		4.7mb
	Z 18s		1.20um		4.9Msz
	N 10s		0.80um		
LBFM	45.99	82	P	35 09.80	-0.4
WDC	46.26	83	ePd	35 12.90	0.8
LZH	46.46	268	eP	35 14.00	0.0
	1.5s		40.00nm		5.2mb
	Z 18s		0.73um		4.7Msz
	N 10s		0.62um		
			sP	35 28.00	
KEV	46.58	342	iP	35 18.80	4.5X
	0.9s		20.30nm		5.2mb
MIN	46.90	82	ePd	35 17.60	0.3
LRM	47.06	70	ePc	35 18.80	0.1
			e	37 25.90	
ORV	47.56	83	ePd	35 22.00	-0.4
WMO	48.23	287	P	35 28.00	0.3
	Z 12s		1.20um		5.1MszX
BKS	48.52	85	e(P)	35 42.00	12.1X
FRB	48.75	29	eP	35 30.00	-1.2
SOD	48.82	341	iP	35 31.80	0.1
CMB	49.29	83	ePd	35 36.30	0.4

KVN	49.60	80	P	35	38.00	-0.4	SRO	68.74	338	iP	37	50.70	0.0	ASPA	88.52	210	eP	39	38.00	-0.8
LLA	50.14	85	eP	35	43.20	0.8		2.0s		8.70nm			4.7mb		2.0s		8.70nm			4.7mb
PRS	50.16	85	eP	35	43.00	0.5	BUD	68.93	337	e(P)	37	52.00	0.2	SPA	150.76	180	iPKPc	46	32.30	0.5
BONR	50.36	81	P	35	43.40	-1.0	MLR	69.39	332	eP	37	57.00	2.1		1.2s		33.80nm			
FRI	50.44	83	eP	35	44.30	-0.3	CDF	69.82	346	eP	37	57.00	-0.4		S.D. = 0.9		on 155 of 163 obs.			
CD2	50.70	264	P	35	46.20	-0.5		1.1s		24.40nm			5.3mb	----------						
BW06	50.72	71	P	35	46.90	-0.1	FLN	70.22	351	eP	37	58.90	-0.8							
TNP	50.78	80	iPd	35	47.00	-0.5		1.0s		16.00nm			5.1mb		MAR 10, 1991 12h 28m 27.04± 0.36s					
	0.8s		13.97nm			5.0mb	KBA	70.30	341	iPd	38	02.20	1.8		4.613 N ± 3.4km 76.6B5 W ± 4.2km					
DUG	51.22	75	P	35	50.60	-0.1		1.3s		60.30nm			5.6mb		DEPTH = 90.0 ± 3.7 km					
	0.9s		12.41nm			4.8mb				i	38	04.90			5.0mb (52 obs.)					
RSSD	52.18	66	iPc	35	57.40	-0.6	HAU	70.33	347	eP	37	59.90	-0.6		COLOMBIA					(103)
	1.0s		44.47nm			5.3mb		1.1s		22.00nm			5.2mb		Felt at Puerto Boyoca, Medellin,					
CLC	52.41	83	eP	36	00.00	0.4	LDF	70.36	351	eP	37	59.80	-0.8		Bogota, Manizoles and Cali.					
MSU	52.B6	76	P	36	03.70	0.5		1.2s		32.75nm			5.3mb							
GYA	53.00	258	P	36	04.60	0.4	BSF	70.45	346	eP	38	00.60	-0.7	HOBC	0.61	115	iPc	28	41.30	-1.7
SBB	53.20	84	eP	36	05.00	-0.6		1.0s		20.00nm			5.2mb	CLMC	0.74	170	iPc	28	44.06	-0.3
GSC	53.20	82	eP	36	05.00	-0.6	GRR	70.62	352	eP	38	01.50	-0.6	BUGC	0.83	149	iPc	28	45.01	-0.3
			e	37	20.00			1.4s		61.00nm			5.5mb	ANCC	1.11	189	iPc	28	47.76	-0.6
MWC	53.46	84	eP	36	08.00	0.4	FVI	70.86	342	P	38	03.80	0.2	HOQC	1.14	177	iPc	28	48.67	-0.3
PAS	53.47	84	eP	36	07.00	-0.4	LPF	70.99	352	eP	38	04.00	-0.4	BOG	2.61	90	iPd	29	11.00	2.6
KAF	53.72	338	iP	36	08.30	-0.6		1.1s		29.30nm			5.3mb				iS	29	30.00	
PEC	54.17	84	ePd	36	11.80	-0.8	LOR	71.33	348	eP	38	06.00	-0.5	PSO	3.46	191	eP	29	21.50	1.4
PV09	54.30	74	ePc	36	13.10	-0.8		1.2s		63.95nm			5.6mb	CUMC	3.82	198	ePd	29	24.66	-0.5
TPC	54.53	83	eP	36	15.00	-0.3	VBY	71.52	340	e(P)	38	10.B0	3.2X	8MG	4.34	56	eP	29	32.00	-0.1
PLM	54.75	84	eP	36	17.00	-0.1	CTI	71.56	342	P	38	07.90	-0.1	COTA	4.56	201	iP+	29	34.70	-0.8
GOL	55.08	70	P	36	19.30	-0.3	SSF	71.57	348	eP	38	07.60	-0.3				S	30	27.80	
	0.9s		14.96nm			5.0mb		1.2s		34.20nm			5.3mb	CAYA	4.69	196	P	29	38.50	1.2
GLD	55.11	70	eP	36	20.30	0.6	LBF	71.60	348	eP	38	07.40	-0.7	ANGL	5.05	190	eP	29	30.60	-11.6X
	1.0s		70.00nm			5.6mb		1.6s		49.75nm			5.4mb	YANA	5.06	202	eP	29	42.00	-0.4
NUR	55.51	339	eP	36	21.00	-1.0	AVF	71.85	348	eP	38	09.10	-0.5	OUR	5.10	201	P+	29	43.00	0.1
KMI	56.01	261	Pd	36	26.10	-0.2		1.1s		46.40nm			5.5mb				eS	30	41.00	
SCH	56.94	34	eP	36	31.00	-1.4	BGF	72.13	349	eP	38	10.60	-0.7	QTO	5.13	201	eP	29	43.80	0.4
NB2	56.98	346	P	36	31.50	-1.1		1.2s		26.80nm			5.2mb				eS	30	42.10	
	1.1s		41.50nm			5.4mb	MFF	72.35	351	eP	38	12.60	0.1	VC1	5.49	198	P	29	50.00	1.5
UPP	57.27	342	iP	36	33.90	-0.7	TCF	72.46	349	eP	38	13.00	-0.2	TUNG	6.24	196	eP	30	07.80	9.1X
HFS	57.55	345	eP	36	35.10	-1.5		1.0s		20.00nm			5.2mb	NNA	16.49	181	eP	32	18.50	4.1X
	0.8s		17.60nm			5.1mb	MAF	72.49	349	eP	38	13.40	0.0	ARE	21.56	166	eP	33	14.00	2.9
Z	16s		0.26um			4.4MszX		1.1s		23.20nm			5.2mb	ZOBO	22.41	158	Pc	33	19.00	-0.8
			LR	56	54.00		LSF	72.56	350	eP	38	13.50	-0.3				LR	41	04.00	
LSA	57.B4	274	eP	36	42.00	2.4		1.1s		32.95nm			5.3mb	LPB	22.66	158	P	33	21.00	-1.1
GUN	61.89	277	P	37	05.76	-1.6	LPL	72.74	346	eP	38	15.40	0.2				e	40	28.00	
PKI	62.40	277	P	37	09.46	-1.2		1.1s		20.75nm			5.1mb	CNCB	22.96	158	P	33	25.90	0.8
GKN	62.41	278	P	37	09.42	-1.1	LPG	72.76	346	eP	38	15.70	0.3				e	40	06.00	
	1.2s		54.00nm			5.6mb		1.2s		78.85nm			5.7mb	CCH	24.21	155	P	33	38.00	1.1
DMN	62.52	278	P	37	09.96	-1.4	BOB	73.13	344	P	38	14.60	-2.7	SIV	25.65	143	iPc	33	49.40	-0.8
FVM	63.10	60	ePc	37	13.20	-1.6	BNI	73.21	346	P	38	20.00	2.2	RSCP	31.91	346	iP	34	46.00	-0.1
CHG	63.21	260	eP	37	15.00	-0.7	RJF	73.50	350	eP	38	19.00	-0.3	BLA	32.62	354	eP	34	52.B0	0.5
CHTO	63.21	260	eP	37	14.60	-1.1	MME	73.51	343	P	38	21.10	1.4	UYO	33.72	333	iPd	35	01.00	-0.8
	1.3s		23.28nm			5.2mb	BDI	73.66	343	P	38	21.00	0.7	FVM	35.50	341	iPc	35	15.60	-1.4
EKA	63.84	354	Pd	37	19.40	0.0	PGD	73.67	342	P	38	22.10	1.6		1.0s		110.00nm			5.7mb
	1.0s		18.30nm			5.2mb	CAF	73.82	349	eP	38	21.50	0.3	PPD	36.31	138	eP	35	22.20	-1.7
UYO	64.57	65	e(P)	37	23.00	-1.5		1.1s		28.10nm			5.2mb	SOB1	38.23	111	eP	35	39.20	-1.0
WIT	65.56	347	eP	37	33.00	2.5	ARV	73.85	341	P	38	22.50	1.1	RSNY	39.82	2	iPc	35	53.80	0.8
KSP	66.17	340	iPd	37	34.00	-0.5	LFF	73.93	350	eP	38	21.90	0.2		0.7s		26.30nm			5.2mb
	1.1s		29.00nm			5.4mb		1.1s		39.05nm			5.4mb	VAO	39.95	135	eP	35	53.10	-1.3
			ic	37	36.60		VAY	74.11	333	eP	38	24.00	1.1	ALQ	40.86	321	eP	36	02.50	0.6
CLL	66.23	343	iP	37	34.70	-0.1	LPO	74.14	350	eP	38	23.20	0.2		1.0s		22.50nm			5.0mb
	1.5s		51.00nm			5.5mb		1.3s		43.30nm			5.3mb	CBM	42.80	9	ePd	36	18.80	1.4
KRA	66.29	338	eP	37	35.30	0.1	SBF	74.28	345	eP	38	23.70	-0.2	RSSD	46.13	333	eP	36	44.70	0.4
	1.3s		77.00nm			5.7mb		1.2s		47.60nm			5.4mb		0.7s		43.25nm			5.4mb
			e	37	37.70		HYB	74.32	278	eP	38	23.30	-1.2	TNP	49.69	318	e(P)	37	11.80	-0.3
WTS	66.35	347	eP	37	36.00	0.5		1.0s		25.00nm			5.2mb	SCH	50.69	7	ePc	37	19.40	0.2
	0.9s		24.00nm			5.4mb	FRF	74.68	346	eP	38	25.90	-0.3		0.6s		44.00nm			5.7mb
			e	40	41.00			1.1s		14.65nm			4.9mb	SES	53.98	333	ePc	37	43.50	-0.3
BRG	66.51	342	eP	37	35.40	-1.3	OHR	74.70	334	eP	38	29.00	2.6		1.2s		61.00nm			5.5mb
	1.1s		12.00nm			5.0mb	LMR	74.92	346	eP	38	27.40	-0.1	NEW	55.50	328	eP	37	54.00	-0.9
			i	37	40.10			1.1s		22.00nm			5.1mb		1.0s		30.00nm			5.3mb
SPC	67.06	337	eP	37	39.80	-0.6	PGF	75.37	344	eP	38	30.00	-0.3	EDM	57.00	335	iPc	38	04.40	-1.2
MOX	67.07	343	iP	37	41.00	0.7		1.3s		46.95nm			5.4mb	PNT	57.45	328	iPd	38	09.50	0.7
	1.3s		44.00nm			5.5mb	EPF	75.85	350	eP	38	32.70	-0.3		0.8s		40.00nm			5.5mb
PRU	67.28	341	P	37	42.00	0.4	E8R	78.04	350	(P)	38	46.00	1.0	FRB	59.31	4	eP	38	20.00	-1.4
			e	37	44.50		G8A	78.14	277	P	38	45.60	-0.3	YKA	64.16	342	eP	38	51.90	-2.0
ENN	67.66	347	eP	37	44.00	0.1	ETOR	78.24	352	eP	38	47.00	0.8		0.6s		28.50nm			5.4mb
	1.4s		63.00nm			5.6mb	GUD	78.55	353	e(P)	38	48.60	0.6	AVE	70.18	56	eP	39	47.50	15.2X
			e	40	38.00		EPLA	79.22	355	eP	38	52.50	0.9	LKO	70.63	B2	Pc	39	34.32	-1.1
GRF	68.06	343	iPc	37	46.60	0.1	TOL	79.30	353	eP	38	52.00	0.0		0.Bs		16.00nm			5.0mb
	1.2s		25.00nm			5.3mb	ECHE	79.38	351	eP	38	54.00	1.6	TIC	71.30	B5	P	39	38.30	-1.1
			e	37	50.00		ECOG	81.86	353	eP	39	07.00	1.3		0.6s		10.00nm			4.8mb
SNF	68.08	348	P	37	46.30	-0.2	AFC	81.88	353	eP	39	07.00	1.1	LIC	71.31	B5	Pc	39	38.50	-1.0
KHC	68.26	342	iPd	37	48.30	0.5	WB2	84.84	211	iPd	39	20.90	0.1		0.6s		14.50nm			5.0mb
	1.3s		18.00nm			5.1mb		0.9s		9.60nm			5.0mb	KIC	71.59	B5	Pc	39	40.22	-0.9
			e	38	13.50		WRA	84.84	211	iPd	39	20.90	0.1		0.Bs		24.50nm			5.1mb
ABH	68.35	346	eP	37	47.51	-0.8		0.9s		9.60nm			5.0mb	INK	73.92	341	ePc	39	53.00	-0.8
PSZ	68.35	337	eP	37	48.30	-0.1	IFR	85.70	354	iP	39	24.00	-1.4		0.5s		12.00nm			5.0mb
DOU	68.46	348	P	37	49.10	0.2				i	39	25.50		ECB	74.15	37	eP	39	55.20	-0.2
ZST	68.59	339	eP	37	50.10	0.3				i	39	45.00		BALM	74.35	333	eP	39	57.00	0.5
							TIO	88.37	355	iP	39	32.00	-6.4X	ECP	74.35	37	eP	39	56.30	-0.2

10d 12h

ETA	74.56	37	eP	39 57.80	0.0	
MBC	75.35	350	ePc	40 01.10	-0.7	
	0.6s	17.00nm		5.1mb		
TOA	76.42	333	e(P)	40 09.10	0.9	
EKA	76.87	34	Pc	40 10.40	-0.4	
	0.7s	5.40nm		4.5mb		
LPF	76.99	42	eP	40 11.10	-0.4	
	0.4s	7.55nm		4.9mb		
BTH	76.99	47	P	40 12.50	0.8	
		pP		40 33.50	79kmX	
GRR	77.16	42	eP	40 12.20	-0.3	
	0.7s	34.80nm		5.3mb		
EPF	77.38	47	eP	40 14.40	0.5	
	0.7s	10.45nm		4.8mb		
MFF	77.42	43	eP	40 14.00	0.1	
	0 8s	38.90nm		5.3mb		
FLN	77.46	41	eP	40 13.90	-0.2	
	0.5s	16.05nm		5.1mb		
PMR	77.65	332	eP	40 15.00	0.1	
	0.8s	13.00nm		4.9mb		
LDF	77.67	41	eP	40 15.10	-0.2	
	0.5s	21.10nm		5.3mb		
LFF	77.86	45	eP	40 16.30	-0.1	
	0.8s	20.15nm		5.0mb		
FBA	77.88	336	eP	40 16.50	0.3	
SLKM	77.92	331	eP	40 16.70	0.2	
LPO	78.15	45	eP	40 18.00	0.0	
	0.7s	19.85nm		5.1mb		
RJF	78.44	45	eP	40 19.40	-0.2	
	0.9s	19.65nm		5.0mb		
DAG	78.48	11	iPd	40 18.20	-1.0	
	1.0s	12.00nm		4.7mb		
LSF	78.53	44	eP	40 20.10	0.0	
	1.1s	18.30nm		4.9mb		
CAF	78.79	45	eP	40 21.40	-0.2	
	1.2s	26.80nm		5.0mb		
TCF	79.01	44	eP	40 22.50	-0.2	
	1.0s	20.00nm		4.9mb		
MAF	79.25	44	eP	40 23.80	-0.2	
	0.9s	18.85nm		5.0mb		
BGF	79.47	44	eP	40 24.10	-1.1	
	1.0s	18.00nm		4.9mb		
AVF	79.83	43	eP	40 26.60	-0.5	
	1.0s	16.00nm		4.8mb		
SSF	79.96	43	eP	40 27.30	-0.5	
	0.8s	10.75nm		4.8mb		
SMF	80.16	44	eP	40 28.50	-0.4	
	0.9s	20.45nm		5.0mb		
LOR	80.21	43	eP	40 28.60	-0.5	
	0.6s	7.65nm		4.7mb		
L8F	80.27	43	eP	40 28.90	-0.6	
	1.1s	11.00nm		4.6mb		
IMA	80.53	336	eP	40 31.10	0.5	
	1.1s	20.80nm		4.9mb		
SVW	80.63	331	ePc	40 31.10	0.0	
SNF	80.71	40	Pc	40 31.70	0.0	
DOU	80.88	40	Pc	40 32.90	0.3	
TTA	81.05	333	e(P)	40 33.60	0.3	
LRG	81.80	47	eP	40 37.80	0.3	
LMR	81.90	47	eP	40 38.10	0.1	
	0.6s	5.40nm		4.6mb		
HAU	81.93	42	eP	40 37.50	-0.6	
FRF	82.01	47	eP	40 38.80	0.2	
	1.0s	22.00nm		5.0mb		
RSL	82.05	45	P	40 39.65	0.7	
LPL	82.12	45	eP	40 40.20	0.8	
	1.0s	13.00nm		4.8mb		
LPG	82.13	45	eP	40 40.40	0.8	
BSF	82.22	43	eP	40 39.10	-0.7	
	0.7s	12.15nm		4.9mb		
BRW	82.47	341	eP	40 41.30	0.9	
CDF	82.56	42	eP	40 41.10	-0.4	
	0.7s	6.60nm		4.6mb		
S[illegible]	82.59	47	eP	40 41.70	0.0	
	0.9s	21.30nm		5.0mb		
ABM	82.78	40	eP	40 43.87	1.4	
PGF	83.73	48	eP	40 47.60	0.0	
	0.7s	12.15nm		5.0mb		
NB2	84.98	29	P	40 53.60	0.2	
	1.0s	6.90nm		4.6mb		
GRF	85.16	41	iPc	40 55.40	0.9	
	0.9s	8.00nm		4.7mb		
ANM	85.30	334	eP	40 56.20	1.3	
HFS	86.22	30	eP	40 59.20	-0.3	
	1.1s	11.30nm		4.8mb		
CLL	86.24	39	iP	41 00.90	1.1	
	0.9s	17.00nm		5.1mb		

KHC	86.72	41	iPd	41 03.50	1.3	
	1.1s	10.00nm		4.8mb		
VOY	87.12	44	eP	41 05.10	0.8	
PRU	87.29	40	ePc	41 06.00	1.1	
	0.9s	11.20nm		4.9mb		
CEY	87.51	44	eP	41 07.40	1.3	
LJU	87.56	44	eP	41 07.50	1.2	
VBY	88.11	45	eP	41 10.00	1.1	
KSP	88.34	39	iPc	41 11.20	1.3	
ILT	90.26	338	eP	41 18.60	0.0	
	1.0s	20.00nm		5.3mb		
		e		41 42.00		
		e		43 54.00		
NUR	91.58	29	eP	41 25.00	0.3	
CHJJ	127.54	323	PKP	47 35.10	11.4X	
MTMJ	127.87	325	PKP	47 39.60	15.2X	
IIDJ	128.57	324	PKP	47 30.00	4.3X	
STK	135.05	228	iPKPc	47 55.30	17.2X	
	0.8s	54.60nm				
STK	135.05	228	ePKP	47 58.10	20.0X	
	0.7s	3.60nm				
GKN	142.91	28	PKP	47 48.06	-4.7X	
	0.5s	15.00nm				
DMN	143.46	28	PKPc	47 50.22	-3.6X	
	0.7s	60.00nm				
GUN	143.55	27	PKPc	47 50.84	-3.2X	
	0.8s	76.00nm				
PKI	143.63	27	PKPc	47 50.38	-3.8X	
	0.8s	35.00nm				
ASPA	144.95	234	iPKPc	47 55.30	-0.9	
	0.8s	54.60nm				
FORR	144.99	219	ePKP	47 55.40	-0.5	
WB2	146.16	241	iPKPc	47 57.80	-0.4	
	0.5s	33.60nm				
WRA	146.17	241	PKP	47 57.00	-1.3	
	0.6s	22.40nm				
WRA	146.17	241	PKP	48 17.00	18.7X	
	1.9s	4.10nm				
HYB	147.18	48	ePKP	48 00.00	0.0	
	1.0s	25.00nm				
GBA	148.58	54	PKP	48 02.80	0.6	
NWAO	148.98	203	ePKP	48 02.00	-0.4	
		e		48 07.00		
KLB	149.93	205	ePKP	48 04.00	0.1	
		e		48 09.00		
MUN	150.21	202	ePKP	48 04.00	-0.3	
		e		48 10.00		
KOD	150.33	60	ePKP	48 11.00	5.7X	
KMI	150.44	1	PKPc	48 10.50	5.4X	
	1.0s	40.00nm				
MTN	151.34	252	iPKPd	48 13.10	6.7X	
	0.4s	42.00nm				
	S.D. = 0.9	on 117 of 134 obs.				

& MAR 10, 1991 12h 41m 40.77s
60.821 N 146.895 W
DEPTH = 22.1km
SOUTHERN ALASKA (2)
<AEIC>.

GLI	0.11	301	iPd	41 45.16	0.0	
			eS	41 49.25		
VZW	0.29	35	iPd	41 47.15	-0.4	
			eS	41 52.56		
VLZ	0.42	41	iPd	41 48.65	-0.8	
HIN	0.47	155	iPc	41 49.81	-0.5	
			eS	41 57.54		
CVA	0.63	116	iPc	41 52.07	-0.9	
KNIM	0.63	222	iPc	41 51.70	-1.3	
			eS	42 00.72		
KLU	0.82	35	iPd	41 54.79	-1.6	
			eS	42 05.50		
SGAM	0.89	110	iPc	41 56.22	-1.2	
MTU	0.92	205	iPc	41 56.71	-1.2	
KNK	0.96	309	iPc	41 57.28	-1.4	
			iS	42 10.68		
RAGM	1.18	111	ePc	42 00.52	-1.5	
PLRM	1.33	307	iPc	42 02.75	-1.3	
TOA	1.33	15	eP	42 03.27	-0.9	
PMS	1.37	289	iPc	42 03.50	-1.1	
			eS	42 21.65		
GHO	1.37	315	iPc	42 03.58	-1.1	
			S	42 21.16		
HMT	1.39	109	ePc	42 03.12	-1.8	
			eS	42 20.91		
TZL	1.42	29	eP	42 04.61	-0.7	
MID	1.43	168	eP	42 04.97	-0.4	

SEW	1.46	241	ePc	42 04.24	-1.6	
			S	42 22.47		
GLB	1.62	66	ePd	42 06.92	-1.4	
			eS	42 26.95		
PWA	1.67	301	ePc	42 08.24	-0.7	
			eS	42 29.09		
SLKM	1.67	261	iPc	42 07.60	-1.4	
SDG	1.83	20	eP	42 10.79	-0.5	
			eS	42 33.91		
SUA	1.97	291	ePd	42 12.37	-1.2	
TGL	1.99	90	ePd	42 11.74	-2.1	
WAX	2.03	99	ePc	42 11.86	-2.4	
NKA	2.13	270	eP	42 15.41	-0.2	
BALM	2.23	82	iPc	42 15.24	-2.0	
			eS	42 42.24		
BRLK	2.25	244	eP	42 15.49	-1.9	
			eS	42 42.01		
PAX	2.26	17	eP	42 17.11	-0.5	
			eS	42 45.20		
CUT	2.26	316	ePc	42 17.10	-0.4	
NNL	2.32	252	ePc	42 16.88	-1.4	
SKT	2.51	300	ePc	42 19.28	-1.9	
CNPM	2.53	241	eP	42 19.04	-2.3	
			eS	42 48.13		
WRG	2.54	106	eP	42 18.20	-3.3	
SPU	2.54	280	ePc	42 19.16	-2.4	
			eS	42 50.47		
YAH	2.58	98	eP	42 20.06	-2.3	
CRP	2.60	282	eP	42 20.39	-2.1	
NCG	2.62	285	ePc	42 20.58	-2.2	
CKL	2.68	280	eP	42 21.20	-2.3	
BGL	2.71	282	eP	42 21.97	-2.0	
CTGM	2.72	85	eP	42 22.79	-1.4	
RDT	2.72	267	ePc	42 21.50	-2.6	
RND	2.75	341	eP	42 23.64	-0.9	
REF	2.88	266	ePc	42 23.90	-2.5	
RDN	2.90	266	iPc	42 23.96	-2.8	
RSO	2.91	265	iPc	42 24.34	-2.5	
RS2	2.91	265	ePc	42 24.34	-2.5	
RED	2.92	265	eP	42 24.17	-2.8	
NCT	2.98	268	eP	42 24.56	-3.2	
	50 obs. associated					

? MAR 10, 1991 12h 47m 31.07± 0.63s
39.850 N ± 8.8km 75.992 E ±12.7km
DEPTH = 33.0km (normal)
4.1mb (6 obs.)
SOUTHERN XINJIANG, CHINA (321)

NDI	11.19	174	eP	50 12.00	0.3	
			eS	52 13.00		
QUE	12.15	220	eP	50 24.70	-0.3	
			e	52 30.30		
GKN	13.82	146	P	50 46.60	-0.4	
DMN	14.36	145	P	50 53.20	-1.0	
GUN	14.45	142	P	50 55.20	-0.3	
PKI	14.53	145	P	50 55.40	-1.1	
	0.6s	25.00nm		4.9mb		
HYB	22.46	174	eP	52 32.50	3.7X	
GBA	26.18	177	P	53 06.00	1.7	
HFS	42.97	319	eP	55 27.70	-0.7	
	0.8s	2.80nm		4.0mb		
NB2	44.18	321	P	55 37.30	-0.9	
	0.8s	3.60nm		4.2mb		
MBC	63.77	4	eP	58 05.00	3.6X	
	0.8s	4.00nm		4.6mb		
INK	69.92	11	eP	58 41.00	0.7	
YKA	77.65	5	eP	59 25.00	-0.2	
	1.0s	0.80nm		3.7mb		
WRA	80.58	126	P	59 44.00	2.2	
	2.1s	1.70nm		3.7mb		
	S.D. = 1.2	on 12 of 14 obs.				

MAR 10, 1991 12h 59m 36.63± 0.63s
41.020 N ± 6.9km 22.164 E ± 4.5km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MD 2.6 (THE).

GRG	0.19	109	iPd	59 40.78	-0.1	
			iS	59 43.82		
VAY	0.43	45	iPg	59 45.50	0.1	
			iSg	59 52.30		
KNT	0.57	75	iPd	59 48.01	-0.2	
			iS	59 56.46		
FNA	0.64	249	ePd	59 49.10	-0.4	
THE	0.72	122	ePd	59 50.94	0.2	

LIT	0.95	165	ePc	59	54.94	0.2
OHR	1.04	276	ePg	59	56.60	0.4
			eSg	00	10.40	
SKO	1.10	330	ePg	00	06.00	8.8X
			i	00	12.50	

S.D. = 0.3 on 7 of 8 obs.

• MAR 10, 1991 13h 07m 44.29± 1.60s
39.939 N ±13.8km 23.388 E ± 9.0km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

PAIG	0.22	93	iPc	07	49.46	0.3
LIT	0.71	284	iPd	07	57.82	-0.5
			iS	08	08.85	
THE	0.76	335	ePd	08	00.36	1.2
			iS	08	11.76	
SOH	0.88	358	ePd	08	02.50	1.2
SRS	1.19	7	ePd	08	04.00	-2.4
			eS	08	25.44	
GRG	1.27	324	ePc	08	07.68	-0.1
			iS	08	26.33	
KNT	1.28	343	ePc	08	08.69	0.7
			eS	08	28.30	
VAY	1.51	336	ePn	08	11.00	-0.4

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

MAR 10, 1991 13h 13m 38.59± 0.66s
39.907 N ± 5.7km 23.338 E ± 5.6km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
ML 3.3 (ATH). MD 3.5 (THE).

PAIG	0.26	86	iPc	13	43.62	-0.5
LIT	0.68	287	iPd	13	51.89	-0.2
			eS	14	02.04	
THE	0.78	339	iPd	13	54.04	0.3
SOH	0.91	1	ePd	13	57.00	0.9
AGG	1.18	222	ePd	13	59.00	-1.6
SRS	1.22	9	iPd	14	01.33	0.0
			iS	14	20.69	
KZN	1.27	289	ePb	14	01.00	-1.2
GRG	1.27	326	ePd	14	02.17	0.0
			eS	14	20.00	
KNT	1.30	345	iPd	14	02.85	0.2
			iS	14	22.26	
VAY	1.53	338	iPn	14	06.60	0.7
			iSg	14	27.30	
			LQ	14	32.60	
FNA	1.74	301	ePd	14	08.10	-0.9
ATH	1.95	171	ePn	14	14.50	2.4
RDO	2.08	53	ePn	14	12.30	-1.7
OHR	2.28	303	ePn	14	18.70	1.8
ALN	2.29	64	ePd	14	21.24	4.2X
IGT	2.35	262	iPc	14	18.01	0.2
SKO	2.51	326	ePn	14	19.80	-0.3

S.D. = 1.2 on 16 of 17 obs.

MAR 10, 1991 13h 30m 59.70± 0.29s
60.853 N ± 6.6km 167.003 E ± 3.8km
DEPTH = 10.0km (geophysicist)
4.9mb (49 obs.)
EASTERN SIBERIA (671)

ILT	9.37	35	iP	33	15.80	-1.9
	0.8s		32.00nm			5.8mb
	Z 12s		1.50um			5.7MszX
	N 10s		0.80um			
			e	34	52.00	
			e	35	47.00	
			e	35	57.00	
			e	36	01.00	
ANM	13.15	62	eP	34	10.20	1.3
TTA	17.39	67	eP	35	06.50	2.7
BRW	17.69	39	eP	35	10.50	3.2X
IMA	18.08	56	eP	35	13.70	1.4
	1.6s		47.90nm			4.4mb
RSO	19.51	73	e(P)	35	33.70	3.8X
FBA	20.64	59	eP	35	41.30	-0.2
SLKM	20.68	72	e(P)	35	41.30	-0.7
PMR	20.84	69	eP	35	48.60	5.1X
TOA	22.02	66	eP	35	55.90	0.3
BALM	24.11	67	e(P)	36	16.30	0.3
INK	25.59	48	eP	36	29.50	-0.5
MBC	28.40	29	eP	36	55.00	-0.6
CN2	29.92	254	eP	37	10.80	1.2
MAT	30.41	230	iPc	37	13.80	-0.2
	1.0s		13.00nm			4.7mb
YKA	35.11	52	eP	37	53.40	-1.2
	0.7s		2.80nm			4.2mb
BJI	37.24	260	eP	38	13.50	0.8
	1.2s		26.00nm			4.9mb
TIY	40.87	261	eP	38	43.80	0.7
PNT	41.33	72	eP	38	47.00	0.4
DAG	42.58	2	iPd	38	58.30	1.8
	0.8s		5.97nm			4.4mb
NEW	43.24	71	eP	39	02.60	0.3
	0.5s		6.05nm			4.6mb
SES	44.45	65	eP	39	12.00	-0.2
FFC	45.15	55	eP	39	17.00	-0.7
	0.8s		10.00nm			4.8mb
GTA	45.70	274	P	39	23.00	0.6
	0.8s		10.00nm			4.8mb
LZH	46.34	267	iPc	39	28.50	1.0
	1.0s		33.00nm			5.3mb
			pP	39	33.00	15kmX
			sP	39	40.50	
WMQ	48.13	287	P	39	42.50	1.1
CD2	50.57	264	P	40	00.20	0.0
BW06	50.86	71	ePc	40	02.00	-0.5
	0.7s		3.22nm			4.4mb
TNP	50.91	80	ePc	40	02.50	-0.4
	0.6s		2.31nm			4.3mb
RSSD	52.32	65	eP	40	12.80	-0.7
GYA	52.87	258	P	40	18.40	0.7
SBB	53.33	83	eP	40	21.00	0.1
GSC	53.33	82	eP	40	21.00	0.0
KAF	53.74	338	eP	40	23.00	-0.5
TPC	54.66	82	eP	40	30.00	-0.7
NUR	55.53	338	eP	40	35.00	-1.6
KMI	55.88	261	Pd	40	40.00	0.1
NB2	57.02	346	P	40	46.90	-0.5
	0.7s		12.40nm			5.0mb
UPP	57.30	342	iP	40	48.70	-0.6
HFS	57.59	345	eP	40	49.40	-1.9
	0.9s		12.20nm			4.9mb
	Z 17s		0.05um			3.7MszX
			LR	14	02.60	
ALQ	58.57	74	eP	40	58.00	-0.8
	1.0s		2.50nm			4.3mb
GUN	61.78	277	P	41	20.12	-0.9
	0.7s		20.00nm			5.4mb
PKI	62.29	277	P	41	23.38	-1.1
	0.9s		8.00nm			4.9mb
GKN	62.31	278	P	41	23.62	-0.7
	0.9s		15.00nm			5.2mb
DMN	62.41	278	P	41	24.46	-0.7
CHG	63.08	260	eP	41	29.40	0.1
CHTO	63.08	260	eP	41	28.90	-0.4
	0.7s		7.31nm			5.0mb
EKA	63.90	354	Pc	41	32.80	-1.4
	0.8s		8.00nm			5.0mb
CLL	66.26	343	eP	41	50.00	0.5
	1.4s		19.00nm			5.1mb
KRA	66.31	337	eP	41	51.90	2.1
BRG	66.54	342	iP	41	53.00	1.7
	1.0s		10.00nm			5.0mb
MOX	67.10	343	eP	41	56.00	1.1
PRU	67.31	341	eP	41	56.20	0.0
NNT	68.07	256	eP	41	59.20	-2.2
SNF	68.12	348	P	42	02.00	0.7
KHC	68.29	342	eP	42	04.90	2.5
DOU	68.50	348	P	42	03.60	0.0
ZST	68.61	339	eP	42	03.60	-0.8
CDF	69.86	346	eP	42	11.80	-0.3
	1.2s		11.90nm			4.9mb
FLN	70.27	351	eP	42	13.60	-0.9
	0.9s		9.85nm			4.9mb
KBA	70.33	341	eP	42	16.00	0.9
	1.2s		12.90nm			4.9mb
			i	42	21.70	
HAU	70.37	346	eP	42	14.80	-0.4
	0.9s		9.85nm			4.9mb
LDF	70.41	351	eP	42	14.70	-0.7
	1.0s		12.00nm			5.0mb
BSF	70.49	346	eP	42	15.30	-0.7
	0.9s		11.45nm			5.0mb
GRR	70.67	351	eP	42	16.40	-0.5
	0.8s		13.45nm			5.1mb
LPF	71.04	352	eP	42	18.90	-0.3
	0.9s		18.00nm			5.2mb
LOR	71.37	348	eP	42	20.90	-0.3
	0.8s		14.10nm			5.1mb
SSF	71.61	348	eP	42	22.50	-0.1
	1.2s		19.35nm			5.1mb
LBF	71.64	348	eP	42	22.30	-0.6
	0.7s		3.30nm			4.5mb
AVF	71.90	348	eP	42	24.00	-0.3
	0.9s		19.65nm			5.2mb
SMF	71.99	348	eP	42	24.40	-0.5
	1.1s		17.10nm			5.1mb
BGF	72.18	349	eP	42	25.70	-0.3
	0.9s		9.85nm			4.9mb
MFF	72.40	351	eP	42	27.40	0.1
TCF	72.50	349	eP	42	28.10	0.1
	0.9s		13.10nm			5.0mb
MAF	72.54	349	eP	42	28.20	0.0
	0.8s		6.70nm			4.8mb
LSF	72.60	349	eP	42	28.70	0.2
	0.9s		13.90nm			5.0mb
LPL	72.78	346	eP	42	30.20	0.3
	0.8s		5.35nm			4.7mb
LPG	72.80	346	eP	42	30.50	0.4
	0.7s		5.50nm			4.8mb
CAF	73.87	349	eP	42	36.40	0.5
	1.0s		14.00nm			5.0mb
LFF	73.97	350	eP	42	36.90	0.4
	0.9s		16.40nm			5.1mb
LPO	74.19	350	eP	42	38.10	0.3
	1.1s		19.55nm			5.0mb
HYB	74.21	277	eP	42	37.50	-0.8
SBF	74.32	345	eP	42	38.70	0.1
	0.8s		13.45nm			5.0mb
FRF	74.72	345	eP	42	41.70	0.9
LRG	74.86	346	eP	42	41.90	0.3
	1.0s		10.00nm			4.8mb
LMR	74.96	345	eP	42	42.30	0.1
PGF	75.40	343	eP	42	45.80	0.9
	1.2s		20.85nm			5.1mb
POO	75.53	282	eP	42	43.50	-2.4
EPF	75.90	350	eP	42	49.10	1.4
	0.8s		6.05nm			4.7mb
GBA	78.03	276	P	43	01.00	1.2
WB2	84.71	211	iPc	43	35.00	0.3
	0.8s		4.60nm			4.8mb

S.D. = 1.0 on 88 of 91 obs.

MAR 10, 1991 14h 29m 14.41± 0.41s
44.911 N ± 2.7km 6.780 E ± 4.7km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.5 (GEN), 2.4 (LDG).

RRL	0.01	19	P	29	15.87	-0.6
			S	29	17.21	
BNI	0.16	332	Pc	29	17.90	-0.3
			eSg	29	20.80	
BHB	0.35	101	P	29	21.59	-0.1
			S	29	27.23	
RSP	0.42	54	P	29	23.77	0.8
			S	29	30.02	
PZZ	0.47	150	P	29	23.36	-0.6
			S	29	29.15	
DOI	0.53	141	P	29	24.50	-0.6
			eSg	29	31.60	
LPG	0.59	358	Pg	29	26.20	-0.3
			Sg	29	34.80	
LPL	0.61	357	Pg	29	26.50	-0.3
			Sg	29	35.60	
LSD	0.61	26	P	29	26.85	0.0
			S	29	35.36	
STV	0.77	150	P	29	28.69	-0.8
			S	29	38.74	
ENR	0.82	146	P	29	29.66	-0.8
			S	29	40.18	
RO8	0.99	128	P	29	32.87	-0.4
			S	29	46.33	
ORX	1.11	49	P	29	36.20	0.8
			S	29	50.95	
SBF	1.15	156	Pg	29	38.00	2.1
			Sg	29	53.60	
FIN	1.24	124	P	29	37.20	-0.3
IMI	1.28	141	P	29	37.87	-0.3
FRF	1.35	184	Pn	29	39.00	-0.3
			Pg	29	40.00	
			Sg	29	58.20	
CDR	1.43	211	eP	29	41.10	0.6
			e	29	59.30	
LRG	1.49	192	Pg	29	41.50	0.3
			Sg	30	01.50	
LMR	1.59	187	Pg	29	43.40	0.8

10d 14h

		Sg	30 04.80		
S.D. = 0.8 on 20 of 20 obs.					
• MAR 10, 1991 14h 42m 06.36± 2.72s					
6.452 S ±17.1km 129.899 E ±16.4km					
DEPTH = 139.0 ± 26.8 km					
5.0mb (10 obs.)					
BANDA SEA					(280)
MTN	6.47	169	eP	43 42.00	1.6
	0.3s	212.00nm		6.0mb	X
KUPT	7.23	239	eP	43 50.00	-0.8
KNA	9.31	187	eP	44 19.30	0.8
	0.3s	47.00nm		5.7mb	
		eS		45 53.00	
WRA	14.09	163	eP	45 19.00	-2.0
	0.4s	16.10nm		4.7mb	
		i		45 25.70	
		iS		47 46.10	
WB2	14.09	163	eP	45 19.00	-2.1
	0.4s	16.10nm		4.7mb	
		i		45 25.70	
		iS		47 46.10	
QIS	16.89	147	iPc	45 57.00	1.1
	0.3s	17.00nm		4.8mb	
		e		48 52.00	
ASPA	17.54	168	iPd	46 04.30	0.4
	0.4s	56.10nm		5.2mb	
MBL	17.57	213	eP	46 04.20	0.0
WARB	19.87	189	iPc	46 30.00	1.1
	0.3s	7.00nm		4.5mb	
FORR	24.33	184	eP	47 12.20	-0.3
STK	27.56	158	iPd	48 02.10	19.9X
	0.4s	8.60nm			
CHTO	39.51	310	iP	49 26.50	1.3
	0.7s	1.91nm		4.0mb	X
GUN	54.52	311	P	51 22.60	-0.1
	0.4s	24.00nm		5.4mb	
PKI	54.70	310	P	51 23.42	-0.5
	0.5s	7.00nm		4.8mb	
DMN	54.94	310	P	51 25.08	-0.5
	0.4s	9.00nm		4.9mb	
GKN	55.50	310	P	51 29.36	-0.2
	0.4s	23.00nm		5.4mb	
GBA	55.76	291	P	51 33.00	1.7
HYB	55.99	296	eP	51 31.50	-1.5
S.D. = 1.3 on 17 of 18 obs.					
MAR 10, 1991 16h 47m 13.70± 0.30s					
34.029 N ± 4.5km 99.568 E ± 4.8km					
DEPTH = 10.0km (geophysicist)					
4.9mb (17 obs.)					
QINGHAI PROVINCE, CHINA					(325)
ML 4.7 (BJI).					
LZH	4.06	58	iPnc	48 18.20	0.8
			Pg	48 29.50	
			Sn	49 04.00	
			Sg	49 20.00	
CD2	4.71	130	Pn	48 28.30	1.7
Z	10s	3.50um			
			Pg	48 41.00	
			Sg	49 40.20	
GTA	5.37	2	Pn	48 38.40	2.4X
			Pg	48 54.20	
			Sn	49 40.00	
XAN	7.77	87	Pnd	49 06.10	-3.4X
			Pg	49 33.50	
			Sn	50 36.50	
			Sg	51 15.00	
LSA	8.36	241	eP	49 20.00	1.8
KMI	9.29	162	eP	49 30.60	-0.3
KMI	9.29	162	Pc	49 31.50	0.6X
Z	10s	1.00um			
			pP	49 44.50	
			S	51 53.00	
			sS	52 20.00	
GYA	9.72	139	P	49 35.20	-1.5
			S	51 30.20	
BTO	10.59	49	eP	49 47.00	-1.6
N	11s	1.90um			
E	12s	1.80um			
TIY	11.07	67	eP	49 49.40	-5.7X
Z	16s	1.30um			
HHC	11.71	51	eP	50 01.00	-2.9X
Z	12s	2.50um			
N	11s	1.30um			
E	10s	1.20um			
		S		52 07.20	
GUN	13.23	246	P	50 23.80	-0.7
	0.6s	54.00nm		5.8mb	
WMO	13.44	320	P	50 26.00	-1.0
PKI	13.76	246	P	50 30.34	-1.2
	0.6s	19.00nm		5.2mb	
DMN	13.97	247	P	50 33.00	-1.2
	1.0s	45.00nm		5.2mb	
GKN	14.14	249	P	50 34.76	-1.5
	1.3s	113.00nm		5.5mb	
CHG	15.16	182	eP	50 52.30	2.7X
CHTO	15.16	182	eP	50 50.20	0.6
	0.9s	43.48nm		4.9mb	
		i		50 56.40	
NJ2	16.30	92	Pd	51 08.40	4.3X
LOE	16.67	173	eP	51 09.50	0.5
BDT	16.72	182	eP	51 09.90	0.3
KHT	19.18	183	eP	51 41.60	1.5
KSH	19.64	293	eP	51 50.00	4.4X
SNY	20.43	61	eP	51 52.20	-1.5
Z	10s	0.80um		4.4MszX	
N	10s	0.60um			
CN2	22.30	56	eP	52 13.00	0.4
Z	10s	1.60um		4.7MszX	
N	10s	0.20um			
E	10s	0.60um			
		epP		52 22.00	32kmX
HYB	25.06	234	eP	52 42.50	2.8X
MDJ	25.39	56	eP	52 43.50	0.9
N	12s	1.00um			
KEV	52.50	335	iP	56 22.00	-6.6X
SOD	52.56	332	iP	56 30.10	1.0
KAF	52.84	326	iP	56 32.20	1.0
	0.5s	2.80nm		4.4mb	
NUR	53.77	324	eP	56 39.00	0.9
ILT	55.89	27	eP	56 53.00	-0.4
HFS	59.19	324	eP	57 17.00	0.1
	0.8s	9.00nm		5.0mb	
Z	17s	0.05um		3.7MszX	
		LR		20 45.00	
NB2	60.12	326	P	57 23.10	-0.2
	0.7s	6.30nm		4.9mb	
WRA	63.07	143	P	57 41.00	-2.5
	0.7s	5.90nm		4.9mb	
WB2	63.08	143	iPc	57 43.00	-0.6
	0.6s	7.90nm		5.1mb	
ASPA	66.02	146	iPc	58 02.80	0.1
	1.5s	11.80nm		4.9mb	
MBC	67.28	9	eP	58 10.00	-0.1
	1.0s	5.00nm		4.7mb	
LPG	68.45	311	eP	58 18.90	0.6
	0.7s	5.50nm		4.9mb	
LPL	68.46	311	eP	58 18.80	0.6
	0.7s	3.85nm		4.7mb	
EKA	69.35	323	Pc	58 24.40	1.1
	0.9s	4.70nm		4.7mb	
SMF	69.72	313	eP	58 25.70	0.0
AVF	69.94	313	eP	58 27.10	0.1
	0.9s	5.75nm		4.7mb	
INK	70.63	18	eP	58 30.00	-0.8
YKA	79.96	15	eP	59 23.70	-0.4
	1.0s	1.50nm		3.9mb	
PNT	90.00	24	eP	00 16.00	1.3
S.D. = 1.1 on 36 of 46 obs.					
• MAR 10, 1991 17h 30m 19.53± 0.90s					
33.771 N ±12.2km 135.554 E ±11.5km					
DEPTH = 423.8 ± 11.7 km					
3.6mb (5 obs.)					
NEAR S. COAST OF SOUTHERN HONSHU					(233)
MAT	3.52	37	iPd	31 29.30	-0.1
			eS	32 23.00	
CHTO	35.83	255	eP	36 43.70	0.9
	0.9s	2.13nm		3.5mb	
GUN	42.72	276	P	37 39.40	0.1
ILT	42.94	23	eP	37 40.00	0.0
PKI	43.23	276	P	37 43.20	-0.1
GKN	43.72	277	P	37 46.60	-0.3
WB2	53.43	181	iPc	38 59.80	-0.1
	0.7s	3.40nm		3.8mb	
GBA	56.15	264	Pd	39 18.60	-0.8
	0.6s	1.80nm		3.6mb	
ASPA	57.14	182	eP	39 26.10	0.0
	0.8s	4.30nm		3.9mb	
YKA	68.98	28	eP	40 42.20	0.2
	0.9s	0.90nm		3.4mb	
S.D. = 0.5 on 10 of 10 obs.					
& MAR 10, 1991 17h 46m 01.10s					
37.723 N 121.748 W					
DEPTH = 16.0km					
CENTRAL CALIFORNIA					(39)
<BRK>. ML 4.0 (BRK).					
Mo=1.7•10••15 Nm (BRK). Felt (IV) at Berkeley, Saratoga and South San Francisco; (III) at Livermore, Pacifica, San Lorenzo, San Mateo and Santa Clara.					
MHC	0.39	167	iPc	46 09.10	-0.2
			iS	46 15.05	
ARN	0.41	155	iPd	46 09.40	-0.2
BKS	0.42	292	iPc	46 09.20	-0.4
			iS	46 15.40	
BRK	0.43	290	iPc	46 09.40	-0.5
ZSP	0.46	299	iPc	46 10.04	-0.3
PCC	0.55	246	iPd	46 11.41	-0.5
GCC	0.72	196	iPd	46 13.84	-0.9
SAO	0.99	166	iPd	46 17.81	-1.5
			eS	46 33.85	
CMB	1.12	73	iPc	46 20.60	-1.1
NWRM	1.16	310	eP	46 20.10	-2.2
LLA	1.28	150	iPd	46 22.28	-1.9
PRS	1.42	168	iPc	46 18.11	-8.1
FRI	1.78	114	iPc	46 29.86	-1.6
PRI	1.80	151	iPc	46 30.22	-1.6
ORV	1.84	6	eP	46 30.00	-2.3
PKEM	2.12	141	eP	46 35.00	-1.3
BONR	2.74	84	eP	46 45.00	-0.5
BCH	2.87	152	eP	46 44.00	-3.1
KVN	3.16	64	eP	46 50.00	-1.3
BLP	3.34	161	e(P)	46 52.00	-1.7
ABL	3.52	144	eP	46 53.80	-2.6
TNP	3.60	83	eP	46 58.40	0.8
LBFM	3.62	358	eP	46 57.40	-0.5
23 obs. associated					
& MAR 10, 1991 17h 48m 37.70s					
37.722 N 121.763 W					
DEPTH = 15.0km					
CENTRAL CALIFORNIA					(39)
<BRK>. ML 2.6 (BRK).					
MHC	0.39	166	iPc	48 45.50	-0.4
			iS	48 51.70	
BKS	0.40	293	iPc	48 45.50	-0.5
			iS	48 51.40	
ARN	0.41	154	iPd	48 45.80	-0.4
BRK	0.42	291	iPc	48 45.80	-0.5
ZSP	0.45	300	iPc	48 46.40	-0.4
			iS	48 54.00	
PCC	0.54	246	iPd	48 47.80	-0.5
GCC	0.72	195	eP	48 50.70	-0.6
			eS	49 00.60	
SAO	0.99	165	iP	48 56.30	0.3
8 obs. associated					
MAR 10, 1991 17h 52m 51.25± 0.53s					
40.676 N ± 4.8km 22.397 E ± 4.2km					
DEPTH = 10.0km (geophysicist)					
GREECE					(364)
MD 2.7 (THE).					
GRG	0.28	1	ePd	52 57.32	0.2
THE	0.43	96	iPd	53 00.01	-0.1
LIT	0.58	173	ePc	53 02.62	-0.4
KNT	0.62	38	ePc	53 03.85	0.2
			eS	53 12.80	
VAY	0.66	11	ePn	53 04.30	0.0
SOH	0.74	78	ePd	53 05.00	-0.8
FNA	0.78	278	ePd	53 06.00	-0.5
SRS	1.01	64	ePd	53 10.36	0.0
PAIG	1.23	127	ePc	53 15.16	1.0
OHR	1.29	290	ePn	53 15.70	0.5
S.D. = 0.6 on 10 of 10 obs.					
• MAR 10, 1991 18h 16m 14.73± 0.69s					
13.154 N ±13.0km 145.850 E ±11.9km					
DEPTH = 33.0km (normal)					
4.0mb (4 obs.)					
MARIANA ISLANDS					(216)

GUA	0.99	293	iPd	16	33.00	0.7
			eS	16	43.20	
PJG	1.05	294	eP	16	33.10	-0.1
MAT	24.28	345	(P)	21	25.00	-5.1X
WB2	34.78	199	eP	23	02.70	-1.8
	0.8s		2.90nm			4.3mb
ASPA	38.42	198	eP	23	37.40	2.3
	1.2s		2.80nm			4.0mb
LZH	44.04	309	eP	24	35.00	13.6X
	1.5s		20.00nm			
	Z 15s		0.19um			4.1MszX
CHTO	45.34	283	eP	24	30.90	-1.0
	1.0s		1.50nm			3.9mb
GUN	57.54	295	P	26	04.00	-0.2
ILT	59.36	15	eP	26	17.00	1.2
INK	74.40	22	eP	27	50.00	-0.8
YKA	82.80	27	eP	28	36.50	-0.2
	0.7s		1.10nm			4.1mb
KIC	144.94	302	PKP	35	51.00	-0.2
TIC	145.01	303	PKP	35	51.20	-0.1
LIC	145.25	302	PKP	35	52.00	0.3
ZOBO	147.02	100	PKP	36	02.00	6.8X
S.D. = 1.2 on 12 of 15 obs.						

? MAR 10, 1991 20h 35m 36.68± 1.15s
1.829 N ±24.1km 126.479 E ±33.1km
DEPTH = 33.0km (normal)
4.9mb (5 obs.)
MOLUCCA PASSAGE (266)

WB2	22.98	161	iPd	40	39.40	-0.2
	0.5s		28.50nm			5.0mb
			eS	44	58.50	
OIS	25.70	151	eP	41	05.70	0.0
	0.3s		8.00nm			4.8mb
ASPA	26.35	165	eP	41	12.30	0.5
	0.6s		18.00nm			4.9mb
			iS	45	45.40	
CHTO	31.82	304	eP	42	02.00	1.1
	0.6s		1.68nm			4.1mb
FORR	32.53	177	eP	42	06.50	-0.3
STK	36.46	158	eP	43	01.20	20.6X
	1.0s		3.60nm			
GUN	46.66	308	P	44	04.70	0.1
	0.6s		16.00nm			5.2mb
PKI	46.88	307	P	44	06.16	-0.2
KKN	47.08	307	P	44	07.26	-0.5
DMN	47.14	307	P	44	08.26	-0.1
GKN	47.68	307	P	44	12.14	-0.3
HYB	49.54	291	eP	44	27.00	0.2
GBA	49.88	286	P	44	29.00	-0.3
S.D. = 0.5 on 12 of 13 obs.						

* MAR 10, 1991 20h 59m 03.98± 0.72s
60.953 N ±15.2km 166.980 E ±17.9km
DEPTH = 10.0km (geophysicist)
4.4mb (6 obs.)
EASTERN SIBERIA (671)

ILT	9.30	35	eP	01	21.00	0.1
	1.4s		10.00nm			5.0mb
			e	01	57.00	
			e	03	31.00	
INK	25.53	48	eP	04	34.00	0.3
YKA	35.06	52	eP	05	58.00	-0.4
	0.7s		0.50nm			3.5mb
NB2	56.92	346	P	08	51.40	0.5
	0.7s		2.60nm			4.4mb
HFS	57.49	345	eP	08	54.40	-0.5
	0.5s		2.10nm			4.4mb
WB2	84.80	211	iPc	11	39.80	0.4
	0.6s		3.20nm			4 7mb
WRA	84.80	211	P	11	39.00	-0.4
	0.8s		1.10nm			4.1mb
S.D. = 0.5 on 7 of 7 obs.						

MAR 10, 1991 21h 38m 47.51± 0.28s
37.110 N ± 2.8km 115.232 W ± 2.7km
DEPTH = 5.0km (geophysicist)
3.7mb (1 obs.)
SOUTHERN NEVADA (41)
ML 4.0 (BRK).

PRN	0.33	26	iPd	38	54.35	0.2
GMR	0.49	298	iPc	38	57.06	-0.2
NPN	0.59	23	iPd	38	59.23	-0.1
SHRG	0.61	174	iP	38	58.90	-0.8
DLM	0.63	38	eP	39	00.00	-0.2
GLR	0.63	278	iPc	39	00.30	0.1
SRG	0.78	10	eP	39	02.40	-0.9
BGB	0.80	265	iPc	39	03.30	-0.3
APKW	0.84	200	iP	39	03.50	-0.9
TNP	1.85	302	iP	39	20.30	-0.1
BONR	2.58	290	eP	39	30.00	-1.0
MSU	2.80	59	eP	39	34.00	0.0
KVN	2.98	311	eP	39	34.80	-1.7
PEC	3.58	207	eP	39	45.50	0.7
FRI	3.58	269	eP	39	46.10	1.2
			iS	40	37.50	
DUG	3.62	31	eP	39	44.90	-0.6
ABL	3.94	236	eP	39	50.50	0.3
PLM	3.98	200	eP	39	51.10	0.4
GLA	4.06	175	eP	39	51.00	-0.7
CMB	4.20	284	eP	39	54.80	1.2
			eS	40	57.50	
BCH	4.37	245	eP	39	56.90	0.7
PRI	4.48	259	eP	40	00.60	2.9X
DAU	4.53	42	e(P)	40	00.00	1.4
PV09	5.02	72	eP	40	06.00	0.4
ORV	5.50	298	eP	40	12.60	0.5
BW06	7.14	36	eP	40	36.00	0.6
ANMO	7.43	104	eP	40	40.00	0.6
ALQ	7.43	104	eP	40	39.00	-0.4
YKA	25.41	1	eP	44	17.00	-0.2
	0.7s		1.30nm			3.7mb
S.D. = 0.8 on 28 of 29 obs.						

MAR 10, 1991 22h 08m 37.21± 0.67s
43.930 N ± 5.1km 7.454 E ± 6.0km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
ML 1.9 (LDG).

AUTN	0.07	344	Pg	08	39.55	-0.2
SBF	0.07	191	Pg	08	39.00	-0.6
			Sg	08	40.00	
SAOF	0.09	52	Pg	08	40.14	0.3
			Sg	08	42.48	
AURF	0.10	245	Pg	08	39.33	-0.7
TOUF	0.17	299	Pg	08	41.02	-0.2
REVF	0.20	198	Pg	08	42.37	0.7
MVIF	0.22	261	Pg	08	42.56	0.5
			Sg	08	45.01	
FRF	0.69	238	Pg	08	50.20	-0.7
			Sg	08	59.90	
LMR	0.91	229	Pg	08	54.30	-0.3
			Sg	09	08.20	
LRG	0.92	239	Pg	08	55.40	0.5
			Sg	09	08.80	
CDR	1.25	259	eP	09	01.00	0.6
			e	09	16.30	
S.D. = 0.6 on 11 of 11 obs.						

& MAR 10, 1991 22h 14m 54.00s
36.875 N 121.637 W
DEPTH = 8.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.6 (BRK).

SAO	0.19	125	iP	14	57.50	-0.6
GCC	0.33	298	iPc	15	00.70	0.0
MHC	0.47	360	iPd	15	03.90	0.5
			iS	15	10.20	
ARN	0.48	10	iPc	15	03.90	0.2
PRS	0.58	158	iPd	15	05.20	-0.5
LLA	0.61	115	iPc	15	06.10	-0.2
PCC	0.86	317	ePc	15	10.50	-0.3
PRI	1.07	133	eP	15	14.30	-0.1
BRK	1.11	334	eP	15	15.50	0.5
CMB	1.53	40	eP	15	22.40	0.8
FRI	1.55	85	eP	15	21.80	-0.1
			eS	15	41.30	
11 obs. assaciated						

MAR 10, 1991 23h 52m 08.22± 0.67s
43.092 N ± 6.4km 18.971 E ± 4.6km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.8 (TTG).

NKY	0.28	176	iPgd	52	14.10	-0.1
			iSg	52	19.97	
BRY	0.37	239	iPgd	52	14.45	-1.4
			iSg	52	20.30	
PLE	0.39	52	iPgd	52	14.95	-1.3
			iSg	52	20.77	
TTG	0.70	162	iPgd	52	20.82	-1.1
			iSg	52	33.75	
IVA	0.72	108	iPgd	52	22.10	-0.3
			iSg	52	33.89	
HCY	0.73	209	iPgd	52	21.45	-1.2
			iSg	52	35.14	
BDV	0.82	187	iPgc	52	23.40	-0.6
			iSg	52	38.45	
PVY	0.89	124	iPgc	52	25.99	0.6
			iSg	52	42.17	
ULC	1.15	170	iPgc	52	30.79	1.1
			iSg	52	50.12	
HVAR	1.85	274	ePn	52	40.90	0.7
			iSn	53	07.10	
SKO	2.14	121	ePn	52	46.00	1.5
OHR	2.40	145	ePn	52	52.90	4.6X
SGO	3.73	228	P	53	08.00	1.0
SDI	4.06	252	P	53	12.60	0.8
ARV	4.42	277	P	53	17.10	0.2
			eSn	54	05.90	
TRI	4.56	307	eP	53	32.30	13.6X
S.D. = 1.1 on 14 of 16 obs.						

* MAR 11, 1991 00h 23m 33.94± 0.53s
17.639 S ±16.7km 172.563 W ±11.7km
DEPTH = 33.0km (normal)
5.1mb (16 obs.) 4.9Msz (4 obs.)
TONGA ISLANDS REGION (174)

VUN	8.56	266	eP	25	40.00	1.5
SVA	8.56	265	eP	25	41.70	3.1X
SGE	9.07	269	ePc	25	49.60	3.8X
DZM	20.23	254	iPc	28	09.00	-0.2
WLZ	22.65	205	eP	28	37.30	3.8X
MNG	25.12	202	eP	29	01.90	4.6X
LTZ	28.19	204	eP	29	24.90	-0.7
			e	29	31.30	
			e	29	33.70	
WB2	50.14	258	iPd	32	26.10	-2.4
WRA	50.15	258	iPd	32	26.10	-2.5
ASPA	50.22	254	iPc	32	28.30	-0.8
	0.8s		70.80nm			5.7mb
MAT	71.16	320	eP	34	51.00	-0.5
	1.2s		18.75nm			5.0mb
PLM	73.44	46	P	35	04.60	-0.7
CMB	73.92	40	P	35	05.90	-1.9
TNP	75.94	42	P	35	19.00	-0.6
	1.0s		12.50nm			4.9mb
RSO	79.46	10	P	35	36.70	-1.8
SLKM	79.94	11	P	35	39.60	-1.3
PMR	81.15	11	eP	35	46.70	-0.5
	1.3s		32.20nm			5.2mb
TTA	81.35	8	eP	35	49.10	0.8
PNT	81.47	32	ePc	35	49.00	-0.2
	1.0s		17.00nm			5.0mb
PV09	81.49	45	P	35	50.00	0.1
ALQ	81.63	49	eP	35	51.00	0.4
	1.1s		7.91nm			4.6mb
ANMO	81.63	49	P	35	51.00	0.4
	1.0s		7.50nm			4.7mb
BALM	82.07	14	P	35	51.30	-0.9
NEW	82.10	34	P	35	51.50	-1.0
TOA	82.19	12	eP	35	53.50	0.8
BW06	83.40	41	P	35	58.20	-1.4
	1.0s		6.67nm			4.7mb
FBA	84.44	10	iPc	36	04.20	0.2
	1.0s		28.00nm			5.4mb
GOL	84.63	46	P	36	06.00	0.1
	1.0s		7.50nm			4.8mb
IMA	84.66	8	eP	36	06.00	0.7
	1.2s		21.30nm			5.2mb
GLD	84.76	46	P	36	07.20	0.8
	0.8s		30.59nm			5.5mb
ILT	85.41	358	ePc	36	09.40	0.6
	2.0s		36.00nm			5.2mb
			e	36	37.50	
BJI	87.58	313	eP	36	22.00	2.0
	1.2s		83.00nm			5.9mb
SNG	89.13	278	eP	36	31.70	3.7X
INK	90.24	14	eP	36	32.00	0.0
YKA	91.82	23	eP	36	38.40	-1.0
	1.3s		3.90nm			4.7mb
KMI	92.71	295	Pc	36	48.00	3.4X
	1.5s		50.00nm			5.7mb
FFC	93.52	33	eP	36	47.00	-0.4

11d 00h

CHG	94.17	288	eP	36 54.00		2.8X
MBC	98.96	11	eP	37 12.00		0.3
QUE	124.72	295	ePKP	42 35.00		2.4X
NAI	145.51	240	iPKPc	43 16.00		4.4X
WTS	145.72	1	ePKP	43 12.00		1.5
CLL	146.12	354	iPKPc	43 11.50		0.3
	1.5s		63.00nm			
KSP	146.13	350	iPKPc	43 13.40		2.2
	1.2s		60.00nm			
KRA	146.13	345	iPKPc	43 12.80		1.6
	0.8s		52.00nm			
			e	43 27.50		
BRG	146.44	353	iPKPc	43 13.60		1.9
	1.0s		40.00nm			
			i	43 30.60		
			i	43 41.80		
SPC	146.86	345	ePKP	43 13.50		0.8
MOX	146.90	355	iPKP	43 15.50		3.0X
	1.5s		48.00nm			
ENN	146.93	2	ePKP	43 15.50		3.0X
	1.5s		57.00nm			
SNF	147.11	4	PKPc	43 16.20		3.4X
HOF	147.21	355	ePKP	43 16.40		3.4X
PRU	147.23	352	iPKPc	43 16.50		3.5X
	1.2s		24.80nm			
			e	43 19.20		
			e	43 31.50		
DOU	147.54	3	PKP	43 17.10		3.6X
	0.9s		20.00nm			
VRI	147.60	334	ePKPc	43 19.50		5.7X
ABH	147.84	360	ePKP	43 17.94		3.9X
GRF	147.88	355	ePKP	43 18.80		4.7X
	Z 18s		0.10um		4.6Msz	
PSZ	148.12	344	iPKP	43 19.40		4.8X
KHC	148.20	352	iPKPc	43 19.50		4.8X
	1.2s		19.00nm			
			e	43 34.00		
MLR	148.23	335	ePKPc	43 19.50		4.6X
FLN	148.29	10	ePKP	43 18.40		3.7X
	1.0s		32.00nm			
	Z 19s		0.20um		4.9Msz	
ZST	148.52	348	iPKP	43 20.70		5.6X
LDF	148.52	10	ePKP	43 19.00		3.9X
GRR	148.59	11	ePKP	43 19.50		4.3X
	1.0s		24.00nm			
SRO	148.61	346	iPKP	43 20.70		5.4X
BBTK	148.85	320	iPKPc	43 22.00		5.9X
LPF	148.90	11	ePKP	43 20.30		4.6X
	1.0s		28.00nm			
CDF	149.31	0	ePKP	43 21.70		5.2X
	0.9s		14.75nm			
FUR	149.39	355	iPKPc	43 22.60		6.0X
BHG	149.67	353	ePKP	43 22.80		5.8X
HAU	149.70	1	ePKP	43 22.60		5.6X
	0.9s		13.10nm			
	Z 19s		0.25um		5.0Msz	
BSF	149.88	1	ePKP	43 22.80		5.4X
HRI	150.21	307	ePKP	43 26.00		7.7X
KBA	150.24	352	iPKPc	43 24.80		6.7X
	1.0s		8.00nm			
			e	43 36.00		
LOR	150.31	5	ePKP	43 24.20		6.3X
	1.1s		22.00nm			
	Z 19s		0.20um		4.9Msz	
MFF	150.44	11	ePKP	43 24.40		6.3X
SSF	150.48	5	ePKP	43 24.70		6.5X
	1.1s		34.20nm			
LBF	150.60	5	ePKP	43 24.90		6.5X
	1.2s		23.80nm			
AVF	150.73	6	ePKP	43 24.80		6.3X
	1.0s		12.00nm			
FVI	150.79	352	PKP	43 24.00		5.4X
BGF	150.91	7	ePKP	43 25.50		6.7X
	1.0s		18.00nm			
SMF	150.92	5	ePKP	43 23.40		4.5X
	1.0s		9.00nm			
LSF	151.05	8	ePKP	43 25.50		6.4X
	1.0s		16.00nm			
LJU	151.07	350	ePKP	43 26.00		6.9X
TCF	151.11	8	ePKP	43 25.90		6.7X
	1.2s		14.90nm			
DSI	151.16	304	ePKP	43 28.00		8.3X
VOY	151.18	351	ePKP	43 26.10		6.7X
			e	43 48.20		
MAF	151.21	7	ePKP	43 26.30		7.0X
	1.1s		20.75nm			
CEY	151.38	350	ePKP	43 26.80		7.2X
CTI	151.46	354	PKP	43 25.70		5.9X
VBY	151.46	348	iPKPc	43 27.70		8.0X
VAI	151.83	358	PKP	43 27.70		7.5X
LPL	152.20	1	ePKP	43 29.50		8.4X
	1.0s		7.00nm			
MBH	152.20	301	ePKP	43 30.00		8.6X
LPG	152.22	1	ePKP	43 29.70		8.5X
CAF	152.42	8	ePKP	43 30.60		9.4X
	1.0s		8.00nm			
SKO	152.95	337	ePKP	43 29.20		7.3X
			i	43 41.80		
OHR	153.94	337	ePKP	43 30.50		7.1X
BCAO	162.96	221	iPKPc	43 36.50		1.9
	0.9s		14.00nm			
			i	44 30.90		
	S.D. = 1.2		on 39 of 98 obs.			

• MAR 11, 1991 01h 44m 56.78± 0.59s
9.499 S ±11.2km 115.639 E ±15.6km
DEPTH = 33.0km (normal)
5.4mb (10 obs.)
SOUTH OF BALI ISLAND (284)

MBL	12.28	161	eP	47 50.00		-2.3
	0.2s		19.00nm		5.9mb	
			eS	49 52.00		
NANU	12.99	180	eP	48 01.00		-0.7
	0.2s		22.00nm		5.9mb	
			eS	50 11.00		
MTN	15.56	104	eP	48 34.20		-1.2
	0.3s		65.00nm		5.3mb	
			e	48 42.50		
			eS	51 21.00		
MEKA	17.24	171	eP	48 58.00		1.2
	0.3s		14.00nm		4.6mb	
			eS	51 53.00		
WARB	19.60	149	eP	49 27.50		2.1
	0.4s		10.00nm		4.5mb	
			eS	52 52.00		
WB2	20.84	122	iPc	49 39.60		1.2
			eS	53 29.90		
BAL	21.03	177	eP	49 47.00		6.9X
			eS	53 22.00		
COOL	21.89	167	eP	49 59.00		10.1X
			eS	53 39.00		
KLB	22.07	175	eP	49 54.00		3.3X
			eS	53 46.00		
MUN	22.38	179	eP	50 06.00		12.3X
			eS	53 51.00		
ASPA	22.43	131	eP	49 56.60		2.3X
	0.4s		11.10nm		4.7mb	
NWAO	23.36	177	eP	50 19.00		15.7X
			eS	54 16.00		
FORR	24.21	153	eP	50 14.50		3.0X
			e	50 31.00		
QIS	25.59	118	eP	50 28.90		4.1X
BDT	31.25	328	eP	51 13.00		-2.8
	0.6s		21.40nm		5.1mb	
CHG	32.60	330	eP	51 29.60		1.9
GBA	44.32	301	P	53 05.70		-0.1
GUN	47.04	323	P	53 28.14		0.5
	0.7s		89.00nm		5.9mb	
PKI	47.07	322	P	53 27.76		-0.1
DMN	47.28	322	P	53 29.62		0.2
KKN	47.31	322	P	53 29.76		0.2
	0.8s		36.00nm		5.4mb	
GKN	47.85	322	P	53 33.86		0.1
	0.5s		36.00nm		5.7mb	
KNT	98.23	310	eP	58 42.60		10.5X
YKA	115.98	23	ePKP	03 37.40		-0.2
	0.4s		0.20nm			
SOB1	150.15	232	ePKP	04 48.30		6.7X
	S.D. = 1.5		on 15 of 25 obs.			

• MAR 11, 1991 02h 12m 53.28± 1.78s
14.657 N ± 5.5km 60.597 W ±28.8km
DEPTH = 107.5 ± 7.3 km
WINDWARD ISLANDS (95)
MD 3.3 (TRN).

MVM	0.31	251	iPd	13 09.25		0.3
CRM	0.32	287	iPd	13 09.44		0.4
			S	13 19.55		
BIM	0.48	253	iPd	13 10.13		0.2
			S	13 21.90		
FDF	0.54	278	iPd	13 10.22		-0.2
			S	13 22.20		
SLW	0.71	207	eP	13 11.72		-0.1
SLB	0.93	208	eP	13 14.08		0.2
			eS	13 29.30		
BBL	1.21	315	eP	13 17.00		0.1
			S	13 33.00		
SVV	1.46	204	eP	13 19.82		0.0
			eS	13 38.94		
DEG	1.71	345	eP	13 23.00		0.1
			S	13 44.50		
PAG	1.72	323	eP	13 23.00		-0.1
			S	13 44.50		
SEG	1.94	333	eP	13 26.00		0.1
PPM	36.61	282	iP	19 51.50		-0.1
	S.D. = 0.2		on 12 of 12 obs.			

% MAR 11, 1991 03h 16m 45.15± 3.36s
39.598 N ±29.5km 28.219 E ±14.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

DST	0.32	88	iPg	16 51.30		-0.4
			iSg	16 56.00		
BNT	0.79	343	ePg	17 00.00		-0.5
			eSg	17 12.00		
EDC	0.80	340	ePg	17 00.00		-0.6
KGT	1.11	321	ePn	17 06.70		0.8
IZI	1.21	52	ePn	17 08.60		0.8
	S.D. = 1.0		on 5 of 5 obs.			

? MAR 11, 1991 03h 18m 09.53±10.87s
40.872 N ±22.0km 23.824 E ±75.0km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 2.0 (THE).

SRS	0.30	324	iPc	18 15.90		0.1
			eS	18 19.82		
THE	0.70	250	ePd	18 23.18		-0.1
			eS	18 31.98		
KNT	0.76	293	iPc	18 24.02		-0.3
			eS	18 33.58		
GRG	1.08	275	ePc	18 30.22		0.3
			iS	18 45.02		
	S.D. = 0.5		on 4 of 4 obs.			

& MAR 11, 1991 03h 28m 40.75s
37.667 N 118.883 W
DEPTH = 4.8km
CALIFORNIA-NEVADA BORDER REGION (40)
<GM>. MD 3.1 (GM).

BONR	0.54	58	iP	28 51.50		-0.2
CMB	1.24	288	eP	29 03.20		-1.2
TNP	1.38	72	eP	29 06.80		-0.1
KVN	1.51	24	eP	29 09.20		0.5
PKEM	1.88	212	e(P)	29 15.20		1.3
ARN	2.13	262	eP	29 18.50		1.0
BCH	2.66	202	eP	29 25.40		0.2
ABL	2.82	186	eP	29 28.50		0.9
	8 obs. associated					

MAR 11, 1991 05h 18m 37.86± 0.45s
60.762 N ± 8.9km 167.023 E ± 6.4km
DEPTH = 33.0km (normal)
4.7mb (16 obs.)
EASTERN SIBERIA (671)

ILT	9.44	35	eP	20 50.00		-4.5X
	1.0s		10.00nm		5.0mb	
			e	21 09.00		
			e	23 40.00		
FBA	20.68	59	P	23 16.00		-1.1
INK	25.64	48	eP	24 06.00		0.5
MBC	28.48	29	eP	24 32.50		1.2
YKA	35.16	52	eP	25 29.70		-0.2
	0.8s		2.40nm		4.2mb	
FFC	45.20	55	eP	26 53.00		0.1
	1.3s		27.00nm		5.0mb	
FRB	48.94	29	eP	27 21.00		-1.0
KAF	53.83	338	eP	27 59.00		0.1
NB2	57.11	346	P	28 22.20		-0.6
	0.8s		8.00nm		4.8mb	
HFS	57.68	345	eP	28 25.80		-1.0
	0.9s		7.60nm		4.7mb	
GUN	61.80	277	P	28 55.80		-0.2
KKN	62.19	278	P	28 59.00		0.6
PKI	62.31	277	P	28 59.00		-0.3

GKN	62.33	278	P	28	58.80	-0.4
DMN	62.43	278	P	28	59.50	-0.5
CHG	63.07	260	eP	29	04.30	0.3
EKA	63.99	354	P	29	10.00	0.4
	1.2s	10.40nm			4.8mb	
CLL	66.35	343	iPd	29	25.30	0.5
ZST	68.70	339	eP	29	40.80	1.2
SRO	68.85	338	eP	29	46.00	5.5X
CDF	69.95	346	eP	29	47.30	-0.1
FLN	70.36	351	eP	29	49.30	-0.5
HAU	70.46	346	eP	29	50.20	-0.2
	0.7s	4.40nm			4.6mb	
LDF	70.50	351	eP	29	50.20	-0.4
BSF	70.58	346	eP	29	50.90	-0.4
GRR	70.76	351	eP	29	52.00	-0.2
LPF	71.13	352	eP	29	54.30	-0.1
	0.9s	9.85nm			4.9mb	
LOR	71.46	348	eP	29	56.30	-0.2
	0.8s	7.15nm			4.8mb	
SSF	71.70	348	eP	29	57.80	-0.1
LBF	71.73	348	eP	29	57.60	-0.5
AVF	71.99	348	eP	29	59.60	0.0
	1.0s	11.00nm			4.8mb	
SMF	72.08	348	eP	30	00.10	-0.1
BGF	72.27	349	eP	30	01.30	0.0
TCF	72.60	349	eP	30	03.40	0.2
	0.9s	6.55nm			4.6mb	
MAF	72.63	349	eP	30	03.70	0.3
	1.1s	8.55nm			4.7mb	
LSF	72.69	350	eP	30	04.00	0.2
LPL	72.87	346	eP	30	05.60	0.5
LPG	72.89	346	eP	30	06.00	0.7
	1.0s	6.00nm			4.5mb	
CAF	73.96	349	eP	30	11.80	0.6
	0.7s	4.40nm			4.6mb	
LFF	74.06	350	eP	30	12.30	0.6
	0.7s	6.60nm			4.7mb	
LPO	74.28	350	eP	30	13.50	0.5
EPF	75.99	350	eP	30	23.10	0.2
GBA	78.05	276	Pd	30	34.30	-0.3
KOD	80.94	275	eP	30	49.40	-1.2
WRA	84.64	211	P	31	10.00	1.0
	1.0s	2.80nm			4.4mb	
	S.D. = 0.6	on	43 of	45	obs.	

? MAR 11, 1991 05h 21m 40.11±10.84s
46.116 N ±22.4km 7.363 E ±88.4km
DEPTH = 10.0km (geophysicist)
SWITZERLAND (544)
MD 2.4 (STR). ML 2.4 (LDG).

RSL	0.67	231	Pg	21	53.55	0.0
			Sg	21	58.56	
LPL	0.74	217	Pg	21	54.80	-0.1
LPG	0.75	215	Pg	21	55.10	0.1
			Sg	22	01.20	
SMF	2.50	284	Pg	22	21.40	0.0
			Sg	22	46.00	
AVF	2.85	285	Pg	22	29.40	2.9X
BGF	3.16	280	Pg	22	33.00	2.2X
	S.D. = 0.1	on	4 of	6	obs.	

& MAR 11, 1991 05h 43m 49.99s
60.950 N 150.758 W
DEPTH = 17.3km
KENAI PENINSULA, ALASKA (14)
<AEIC>.

NKA	0.31	229	iPc	43	58.71	1.9
SLKM	0.52	149	iPd	43	59.68	-0.6
SUA	0.52	1	iPc	44	00.27	0.0
			eS	44	08.10	
PMS	0.65	63	iPd	44	01.82	-0.8
			eS	44	10.72	
SPU	0.67	291	iPd	44	02.42	-0.5
			iS	44	11.47	
CRP	0.75	296	iPd	44	03.88	-0.4
			S	44	14.02	
CKL	0.81	289	iPd	44	04.59	-0.7
NCG	0.82	305	iPd	44	04.76	-0.7
PWA	0.82	31	iPc	44	04.91	-0.5
			eS	44	15.91	
BGL	0.85	292	iPd	44	05.30	-0.7
			iS	44	17.24	
RDT	0.89	246	iPd	44	05.73	-1.0
			eS	44	17.71	
NNL	0.95	197	iPc	44	07.63	0.0
PLRM	1.02	50	ePc	44	06.88	-1.9
			eS	44	20.96	
REF	1.06	245	iPd	44	08.51	-1.1
			eS	44	21.49	
SEW	1.07	142	ePc	44	08.28	-1.3
RDN	1.08	247	iPd	44	08.38	-1.5
			iS	44	21.99	
RSO	1.10	244	ePd	44	09.05	-1.2
			eS	44	23.21	
RS2	1.10	244	iPd	44	09.07	-1.2
			iS	44	23.35	
SKT	1.10	341	ePc	44	09.37	-0.8
			eS	44	23.46	
RED	1.13	243	iPd	44	09.40	-1.3
			eS	44	23.86	
NCT	1.14	251	ePd	44	09.41	-1.4
			eS	44	24.20	
BRLK	1.19	183	eP	44	10.05	-1.7
			eS	44	25.49	
KNK	1.21	66	eP	44	10.96	-1.1
GHO	1.21	46	ePc	44	10.67	-1.4
HOM	1.37	199	eP	44	13.59	-0.7
CNPM	1.45	190	eP	44	13.98	-1.4
CUT	1.48	9	eP	44	15.11	-0.7
KNIM	1.61	111	ePd	44	16.56	-1.1
GLI	1.79	91	ePd	44	19.53	-0.8
MTU	1.82	121	eP	44	20.25	-0.5
VZW	2.05	85	eP	44	24.02	-0.2
PDB	2.07	237	eP	44	23.77	-0.6
HUR	2.10	14	eP	44	25.08	0.2
SVW	2.37	276	eP	44	28.22	-0.5
KLU	2.40	75	eP	44	28.77	-0.4
TOA	2.48	60	eP	44	30.96	0.6
CDD	2.49	217	eP	44	30.63	0.2
	37 obs. ossocioted					

• MAR 11, 1991 05h 48m 51.07± 0.76s
51.177 N ±13.3km 176.572 W ± 8.9km
DEPTH = 33.0km (normal)
4.1mb (3 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS. (7)

ADK	0.71	354	iPd	49	05.90	1.3
PDB	15.27	47	eP	52	29.50	3.9X
TTA	16.14	35	eP	52	38.50	1.7
ILT	16.81	357	iP	52	50.00	4.9X
	1.0s	20.00nm			4.2mb	
			e	53	17.80	
IMA	18.92	29	eP	53	11.00	-0.3
FBA	20.26	36	eP	53	24.00	-2.0
INK	26.83	34	eP	54	28.00	-1.8
MBC	33.28	22	eP	55	26.50	-0.4
	1.0s	4.00nm			4.3mb	
YKA	34.36	47	eP	55	35.50	-0.9
	0.5s	0 40nm			3.6mb	
PNT	35.69	70	eP	55	49.00	1.0
NEW	37.64	70	eP	56	04.60	0.2
BW06	45.03	73	eP	57	05.50	0.1
RSSD	47.54	69	eP	57	26.50	1.3
GOL	49.39	74	eP	57	39.50	-0.1
GUN	73.22	294	P	00	21.32	0.3
KKN	73.66	294	P	00	23.62	0.3
PKI	73.75	294	P	00	23.90	-0.1
GKN	73.87	295	P	00	24.56	0.1
DMN	73.90	294	P	00	24.14	-0.6
	S.D. = 1.1	on	17 of	19	obs.	

& MAR 11, 1991 05h 54m 15.85s
64.854 N 149.160 W
DEPTH = 16.2km
3.7mb (2 obs.)
CENTRAL ALASKA (1)
<AEIC>. ML 4.3 (PMR). Felt (IV) ot Ester, Fairbanks ond Nenano; (III) ot Monley Hot Springs ond North Pole.

NEA	0.28	173	iPd	54	21.86	-0.2
MDM	0.41	75	iPc	54	24.30	0.0
RDS	0.43	93	iPc	54	24.70	0.0
FBA	0.59	85	iPc	54	27.50	0.2
WRH	0.60	129	iPd	54	27.50	0.0
CCB	0.62	109	iPc	54	27.74	0.0
BWN	0.70	191	iPd	54	29.16	0.0
GLM	0.77	79	ePc	54	30.32	-0.1
HDA	1.05	114	iPc	54	34.97	-0.2
MCK	1.13	175	iPd	54	36.53	-0.1
			eS	54	51.64	
RND	1.46	175	iPd	54	41.28	-0.3
TRF	1.49	200	iPd	54	41.66	-0.5
DDM	1.79	125	eP	54	45.48	-0.9
HUR	1.90	187	ePd	54	47.91	0.1
			eS	55	12.54	
THY	2.08	132	eP	54	51.20	0.7
			S	55	16.46	
IMA	2.25	305	eP	54	53.20	0.2
PAX	2.50	138	iPd	54	56.22	-0.3
			eS	55	25.53	
CUT	2.51	192	iPd	54	56.51	-0.1
DOT	2.53	116	eP	54	54.74	-2.2
			eS	55	26.68	
SDG	2.84	144	ePd	55	01.25	0.0
TOA	3.07	153	iPd	55	05.90	1.3
SKT	3.08	201	iPd	55	03.97	-0.7
GHO	3.10	178	ePd	55	04.16	-0.8
TMW	3.11	117	eP	55	04.25	-0.9
PWA	3.23	186	eP	55	07.42	0.6
PLRM	3.27	180	ePd	55	06.75	-0.7
PMR	3.27	180	iPd	55	07.20	-0.3
	0.8s	593.10nm				
TZL	3.28	148	eP	55	08.32	0.7
KNK	3.47	174	iPd	55	09.82	-0.4
SUA	3.48	193	ePd	55	09.58	-0.9
TTA	3.59	241	eP	55	10.10	-2.0
PMS	3.63	183	ePd	55	12.27	-0.3
KLU	3.68	155	ePd	55	13.59	0.3
NCG	3.72	203	ePd	55	12.67	-1.3
CRP	3.85	202	ePd	55	14.85	-0.9
BGL	3.89	204	eP	55	16.13	-0.2
SPU	3.92	201	ePd	55	15.50	-1.1
CKL	3.95	203	ePd	55	16.16	-0.9
VLZ	3.95	160	eP	55	16.46	-0.6
VZW	3.99	161	eP	55	17.02	-0.6
GLI	4.10	166	eP	55	18.61	-0.6
GLB	4.20	142	eP	55	20.62	0.0
NKA	4.24	194	ePd	55	22.78	1.7
SLKM	4.39	187	eP	55	23.26	-0.1
RDT	4.55	201	eP	55	24.33	-1.3
KNIM	4.57	171	ePd	55	24.51	-1.4
NCT	4.64	204	eP	55	25.90	-1.1
RDN	4.66	202	ePd	55	26.06	-1.2
REF	4.67	202	eP	55	26.48	-1.1
RS2	4.71	202	eP	55	26.99	-1.1
RSO	4.71	202	eP	55	27.01	-1.0
SGAM	4.73	156	eP	55	26.93	-1.3
RED	4.75	202	eP	55	27.25	-1.3
SEW	4.77	182	eP	55	28.61	-0.1
SVW	4.78	221	eP	55	27.20	-1.6
	0.5s	475.21nm				
NNL	4.93	193	eP	55	31.93	1.0
BALM	4.93	138	eP	55	31.03	-0.1
MTU	4.93	171	eP	55	29.86	-1.1
RAGM	4.94	153	eP	55	30.54	-0.5
TGL	5.03	142	eP	55	31.12	-1.4
HMT	5.07	151	eP	55	31.72	-1.2
BRLK	5.17	190	eP	55	33.97	-0.4
WAX	5.29	144	eP	55	34.87	-1.2
HOM	5.34	194	eP	55	37.33	0.6
CNPM	5.44	191	eP	55	37.91	-0.2
PDB	5.60	207	eP	55	38.68	-1.7
MID	5.60	165	e(P)	55	40.00	-0.4
WRG	5.85	142	eP	55	43.84	-0.1
MCNL	6.19	206	eP	55	47.03	-1.6
CDD	6.31	202	eP	55	49.80	-0.6
SYI	6.45	195	ePc	55	51.50	-0.9
ANM	6.95	275	eP	55	58.11	-1.3
BRW	7.07	340	eP	56	00.50	-0.5
INK	7.12	54	P	55	58.50	-3.2
	0.5s	15.20nm				5 4mb X
MBC	14.85	28	eP	57	44.00	-2.4
	0.9s	5.00nm				4.0mb
YKA	15.39	83	eP	57	51.40	-2.1
	0.7s	1.90nm				3.5mb
	76 obs. ossocioted					

& MAR 11, 1991 05h 57m 19.47s
64.807 N 149.073 W
DEPTH = 15.9km
CENTRAL ALASKA (1)
<AEIC>.

NEA	0.23	180	iP	57	24.68	-0.2
MDM	0.39	67	iP	57	27.22	-0.4
RDS	0.40	87	iP	57	27.59	-0.1

11d 05h

WRH	0.54	128	iP	57	30.36	0.2
			eS	57	38.11	
FBA	0.55	80	iP	57	30.26	-0.1
			eS	57	38.01	
CCB	0.57	106	iP	57	30.68	0.1
BWN	0.66	195	eP	57	32.05	-0.1
			S	57	42.06	
GLM	0.74	75	eP	57	33.67	0.1
			eS	57	43.57	
HDA	1.00	113	eP	57	38.39	0.5
			eS	57	52.02	
MCK	1.08	177	eP	57	39.13	-0.2
			eS	57	54.55	
RND	1.41	176	eP	57	44.18	-0.3
			eS	58	03.49	
TRF	1.46	202	eP	57	44.58	-0.8
DDM	1.73	125	eP	57	51.49	2.3
SKT	3.05	202	eP	58	07.19	-0.7

14 obs. associated

? MAR 11, 1991 06h 04m 26.94± 3.93s
32.758 S ±22.3km 68.138 W ±36.4km
DEPTH = 33.0km (normal)
MENDOZA PROVINCE, ARGENTINA (139)

CFA	1.15	356	ePd	04	45.80	-1.0
ZON	1.29	339	iPd	04	49.50	0.6
			eS	05	02.50	
RTCB	1.39	336	ePd	04	50.00	-0.3
RTLL	1.45	349	e(P)	04	52.00	0.8
JACH	2.07	271	eP	04	59.50	-0.7
PCH	2.17	246	iPd	05	01.40	-0.1
			eS	05	29.20	
PEL	2.18	259	iPd	05	00.50	-1.1
			iS	05	29.30	
SAN	2.23	251	eP	05	02.50	0.2
			eS	05	31.00	
ROCH	2.43	264	iPd	05	05.70	0.3
			e	05	35.00	
LCCH	2.97	255	iPd	05	14.00	1.2

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

MAR 11, 1991 06h 16m 34.83± 0.95s
51.067 N ± 7.5km 179.164 W ± 3.2km
DEPTH = 57.1 ± 7.6 km
4.9mb (54 obs.) 4.6Msz (9 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS. (7)

ADK	1.75	61	eP	17	03.20	-0.1
SMY	4.49	294	eP	17	43.70	1.9
SDN	11.97	62	eP	19	22.70	-2.2
PET	13.79	287	eP	19	48.00	-0.7
Z	20s		2.50um			
			eLR	23	12.00	
ANM	15.34	23	e(P)	20	12.50	3.6X
SVW	16.44	43	iPd	20	26.20	3.3X
PDB	16.55	49	eP	20	23.70	-0.6
ILT	16.B9	1	iPc	20	31.00	2.6
	1.5s		62.00nm		4.5mb	
Z	18s		0.60um		4.0Msz	
			iPP	20	54.00	
			i	21	07.00	
			i	22	29.00	
			eS	23	55.00	
			e	24	19.50	
			eSS	24	33.50	
			eLR	26	10.00	
TTA	17.20	37	eP	20	33.20	0.8
PMR	19.51	46	eP	21	01.20	1.4
	0.6s		63.05nm		5.1mb	
PMR	19.51	46	eP	21	00.00	0.2
IMA	19.B4	31	iPd	21	03.20	-0.1
	1.2s		62.10nm		4.Bmb	
KLU	20.95	47	eP	21	13.00	-1.8
TOA	21.00	46	eP	21	14.00	-1.3
	0.8s		124.80nm		5.3mb	
FBA	21.33	38	eP	21	18.20	-0.3
BRW	22.71	19	eP	21	32.60	0.5
INK	27.85	35	eP	22	19.00	-1.3
MBC	33.98	22	eP	23	13.50	-0.8
	0.6s		6.00nm		4.7mb	
YKA	35.61	46	eP	23	27.30	-1.1
	0.7s		10.10nm		4.9mb	
GMW	36.16	73	eP	23	34.50	1.3
BMW	36.39	75	eP	23	36.50	1.3
RMW	36.79	73	eP	23	39.80	1.2
LON	37.12	74	eP	23	42.00	0.7
PNT	37.26	69	iPd	23	43.70	1.3
	0.9s		25.00nm		5.1mb	
CN2	37.38	281	eP	23	42.00	-1.4
Z	20s		2.00um		4.9Msz	
EDM	39.17	60	eP	23	57.50	-0.8
NEW	39.21	69	eP	23	58.80	0.0
	1.0s		13.75nm		4.8mb	
SNY	39.60	280	Pd	24	02.10	0.1
LBFM	39.88	81	eP	24	06.00	1.4
LRM	43.20	70	eP	24	31.80	0.1
KVN	43.57	81	eP	24	36.00	1.2
FFC	44.51	54	eP	24	40.00	-2.0
	0.6s		5.00nm		4.5mb	
TNP	44.71	82	eP	24	44.00	0.0
BJI	45.22	282	eP	24	47.50	-0.2
Z	18s		0.59um		4.6Msz	
DUG	46.16	77	eP	24	56.00	0.6
BW06	46.62	72	eP	24	59.00	-0.1
	1.0s		33.33nm		5.2mb	
HHC	47.56	286	eP	25	06.50	0.2
PLM	47.93	87	eP	25	11.00	1.5
BTO	48.64	287	eP	25	14.90	0.2
TIY	48.95	282	eP	25	16.40	-0.7
RSSD	49.09	67	eP	25	17.00	-1.3
	1.0s		10.85nm		4.8mb	
GOL	50.99	72	eP	25	33.00	0.1
	1.0s		18.75nm		5.1mb	
GLD	51.05	72	eP	25	33.00	-0.3
	1.0s		22.50nm		5.2mb	
DAG	51.83	6	iPc	25	36.50	-1.9
	0.8s		3.73nm		4.5mb	
ANMO	53.38	78	eP	25	50.00	-0.8
ALO	53.39	78	eP	25	50.50	-0.3
	1.0s		3.00nm		4.3mb	
FRB	53.41	31	eP	25	48.00	-2.3
			pP	26	27.00	171kmX
XAN	53.49	281	P	25	50.20	-1.2
LZH	55.25	286	iPd	26	04.50	0.1
	1.5s		42.00nm		5.2mb	
Z	20s		0.44um		4.5Msz	
E	15s		0.40um			
			sP	26	24.00	
KEV	57.98	350	eP	26	31.00	7.8X
WMO	59.32	303	P	26	32.00	-0.9
			ScP	31	15.00	
GYA	60.13	276	P	26	37.60	-1.1
SOD	60.30	349	eP	26	38.00	-1.2
SCH	60.42	38	eP	26	39.00	-1.3
			pP	27	18.00	166kmX
KAF	65.37	347	eP	27	11.00	-1.7
NUR	67.14	347	eP	27	24.00	0.0
LSA	67.33	289	P	27	27.40	1.1
NB2	67.94	355	P	27	28.20	-0.9
	0.9s		8.90nm		4.8mb	
UPP	68.60	351	iP	27	32.80	-0.3
			i	28	09.90	
HFS	68.67	353	eP	27	31.10	-2.5
	0.5s		8.30nm		4.9mb	
Z	19s		0.23um		4.4Msz	
			LR	54	25.00	
GUN	71.76	292	P	27	53.14	-0.2
	0.4s		103.00nm		6.1mb X	
KKN	72.20	292	P	27	55.56	-0.2
	0.6s		43.00nm		5.6mb	
PKI	72.29	292	P	27	55.88	-0.5
GKN	72.42	293	P	27	56.58	-0.4
	0.5s		39.00nm		5.6mb	
DMN	72.44	292	P	27	57.08	-0.1
EKA	73.92	2	Pd	28	05.00	0.0
	0.8s		7.20nm		4.7mb	
WTS	77.19	356	eP	28	24.00	0.4
	1.0s		18.00nm		5.0mb	
CLL	77.48	352	iPd	28	24.90	-0.3
	1.1s		15.00nm		4.9mb	
KSP	77.62	350	eP	28	25.10	0.1
BRG	77.83	352	iP	28	26.50	-0.6
	1.1s		17.00nm		5.0mb	
			i	29	05.60	
			iSg	45	05.60	
KRA	77.95	348	iPd	28	27.80	0.0
	1.1s		43.00nm		5.4mb	
MDX	7B.25	353	eP	28	29.00	-0.5
			e	29	08.00	
ENN	78.45	357	eP	28	31.00	0.5
	0.8s		31.00nm		5.3mb	
			e	29	10.00	
SPC	78.75	347	eP	28	33.00	0.5
SNF	78.76	358	P	28	33.00	0.8
DOU	79.17	358	P	28	34.90	0.4
			e	29	13.20	
GRF	79.23	353	eP	28	35.20	0.3
	1.0s		16.00nm		4.9mb	
Z	19s		0.20um		4.5Msz	
KHC	79.59	352	Pd	28	37.50	0.6
PSZ	80.04	347	eP	28	40.00	0.6
ZST	80.14	349	iP	28	40.50	0.8
			e	29	18.10	
QUE	80.39	307	eP	28	42.50	0.9
FLN	80.55	1	eP	28	41.60	-0.3
	1.0s		28.00nm		5.1mb	
Z	20s		0.22um		4.5Msz	
LDF	80.72	1	eP	28	42.50	-0.3
	0.7s		11.00nm		4.9mb	
CDF	80.75	356	eP	28	43.00	-0.1
	0.7s		5.50nm		4.6mb	
GRR	80.92	1	eP	28	43.90	0.1
	0.7s		13.25nm		5.0mb	
HAU	81.20	356	eP	28	45.40	0.1
Z	20s		0.22um		4.5Msz	
LPF	81.27	1	eP	28	45.90	0.2
	1.1s		26.85nm		5.1mb	
BSF	81.35	356	eP	28	46.20	-0.1
	0.8s		8.05nm		4.7mb	
MLR	81.40	342	eP	28	4B.00	1.4
WRA	81.63	224	P	28	46.00	-1.8
	1.6s		3.20nm		4.0mb	
WRA	81.63	224	P	28	56.00	8.2X
	0.9s		2.90nm		4.3mb	
WRA	81.63	224	P	29	02.00	14.2X
	0.8s		2.70nm			
WRA	81.63	224	P	29	06.00	18.2X
	0.8s		1.50nm			
KBA	81.64	351	iPc	28	52.50	4.6X
	0.8s		29.10nm		5.3mb	
			i	28	53.40	
			i	28	56.70	
			i	28	59.50	
			i	29	31.50	
			i	29	36.40	
			i	29	45.10	
LOR	82.01	358	eP	28	49.90	0.3
	0.7s		6.60nm		4.7mb	
Z	20s		0.30um		4.7Msz	
SSF	82.23	358	eP	28	51.10	0.4
	0.9s		9.85nm		4.8mb	
LBF	82.29	358	eP	28	51.10	0.0
	0.8s		5.35nm		4.6mb	
AVF	82.50	358	eP	28	52.30	0.2
	0.9s		10.65nm		4.8mb	
SMF	82.64	358	eP	28	53.00	0.2
	0.9s		14.75nm		5.0mb	
MFF	82.71	1	eP	28	53.70	0.5
	0.9s		9.85nm		4.8mb	
BGF	82.74	359	eP	28	53.80	0.4
TCF	83.02	359	eP	28	55.20	0.3
	0.8s		5.35nm		4.6mb	
LSF	83.06	360	eP	28	55.40	0.4
	0.8s		11.40nm		4.9mb	
MAF	83.08	359	eP	28	55.70	0.5
	0.9s		7.35nm		4.7mb	
LPL	83.66	356	eP	28	59.60	1.2
LPG	83.68	356	eP	28	59.70	1.1
	0.7s		3.30nm		4.5mb	
RJF	84.01	360	eP	29	00.10	0.2
Z	20s		0.28um		4.6Msz	
HYB	84.11	290	eP	29	01.00	0.2
LFF	84.38	0	eP	29	02.40	0.7
	0.8s		13.45nm		5.1mb	
CAF	84.38	359	eP	29	02.50	0.7
	1.0s		15.00nm		5.0mb	
LPO	84.63	360	eP	29	03.50	0.5
	0.8s		16.10nm		5.1mb	
SBF	85.28	355	eP	29	06.60	0.3
	0.7s		15.45nm		5.2mb	
FRF	85.62	356	eP	29	08.50	0.5
	0.7s		7.70nm		5.0mb	
LMR	85.85	356	eP	29	09.80	0.7
	0.7s		5.50nm		4.8mb	
ALP	85.88	351	eP	29	10.12	0.7
POO	85.97	295	iPc	29	10.00	-0.1
EPF	86.28	0	eP	29	11.30	0.0
	0.7s		4.40nm		4.7mb	
PGF	86.50	354	eP	29	12.80	0.3
	0.8s		18.80nm		5.3mb	

GBA 87.76 289 P 29 19.00 0.3
BFT 146.24 308 ePKP 36 11.50 2.2X
SLR 147.15 310 iPKPd 36 11.50 0.9
CER 157.75 316 iPKPc 36 20.60 -4.8X
S.D. = 0.9 on 113 of 122 obs.

MAR 11, 1991 06h 28m 44.17± 0.25s
9.030 S ± 4.9km 157.369 E ± 5.5km
DEPTH = 27.5km (5 depth phases)
5.4mb (29 obs.) 4.7Msz (5 obs.)
SOLOMON ISLANDS (193)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 31C
Centroid Location:
Origin Time 06:28:46.3 1.0
Lat 9.27S 0.11 Lon 157.29E 0.06
Dep 15.0 FIX Half-duration 1.5
Moment Tensor; Scale 10**16 Nm
Mrr= 0.80 0.44 Mtt=-3.13 0.60
Mff= 2.33 0.58 Mrt= 0.00 0.00
Mrf= 0.00 0.00 Mtf= 6.52 0.46
Principal Axes:
T Val= 6.67 Plg= 0 Azm=124
N 0.80 90 180
P -7.46 0 34
Best Double Couple:Mo=7.1*10**16
NP1:Strike=169 Dip=90 Slip=-180
NP2: 259 90 0

SVO 2.42 93 eP 29 20.00 -2.7
eS 29 58.00
HNR 2.58 99 eP 29 22.00 -3.0
iS 29 59.00
PMG 10.09 267 eP 31 19.00 8.6X
CTA 15.37 223 iPd 32 19.50 -1.4
1.8s 277.27nm 5.2mb
DZM 15 63 147 iPd 32 26.10 1.8
BRS 18.77 193 iPc 33 03.00 -0.7
i 33 43.00
i 34 07.00
RMO 19.19 204 iPc 33 08.40 -0.3
1.2s 309.00nm 5.4mb
QIS 20.62 234 iPd 33 24.50 0.3
1.0s 71.00nm 5.0mb
QLP 21.44 214 eP 33 31.00 -1.4
WB2 24.75 241 iPc 34 05.20 0.2
e 37 50.10
WRA 24.76 241 iPc 34 05.20 0.1
e 37 50.10
CMS 24.79 204 e(P) 33 52.30 -12.9X
e 34 06.50 59kmX
GUA 25.61 331 eP 34 12.60 -0.5
0.7s 186.30nm 5.8mb
PJG 25.67 331 eP 34 12.20 -1.4
CNB 27.17 194 eP 34 28.00 0.6
BFD 31.07 203 eP 35 02.00 -0.2
WARB 33.76 236 eP 35 25.50 -0.4
0.4s 5.00nm 4.8mb
PPR 42.76 295 ePd 36 43.00 1.7
BAG 44.32 305 eP 36 53.80 -0.3
WKYJ 47.72 335 eP 37 18.70 -2.0
KAKJ 47.82 341 P 37 20.30 -1.0
IIDJ 47.93 339 P 37 21.90 -0.4
CHJJ 48.06 340 P 37 22.80 -0.5
TKSJ 48.17 334 eP 37 23.30 -0.8
KUMJ 48.47 330 P 37 27.40 0.9
MAT 48.78 339 eP 37 27.00 -1.8
1.0s 42.00nm 5.4mb
eS 44 48.00
MTMJ 48.96 339 P 37 29.10 -1.2
YONJ 49 44 334 eP 37 32.70 -1.2
SHNJ 49.63 331 P 37 34.60 -0.7
OZH 50.68 313 eP 37 44.00 0.5
0.6s 40.00nm 5.6mb
TVO 52.50 105 eP 38 01.00 3.5X
1.2s 80.00nm 5.5mb
SSE 52.86 321 Pc 38 00.30 0.5
1.4s 180.00nm 5.8mb
Z 20s 0.50um 4.6Msz
pP 38 08.30 26km
GZH 53.61 307 P 38 07.00 1.5
PMO 53.76 102 iP 38 10.00 3.3X
1.2s 95.00nm 5.7mb
VAH 54.01 102 iP 38 11.60 3.0X
1.2s 40.00nm 5.3mb
TPT 54.02 102 iP 38 11.90 3.3X
1.2s 70.00nm 5.6mb
RUV 54.25 102 iP 38 13.60 3.3X
1.2s 55.00nm 5.5mb
NJ2 54.97 320 Pc 38 16.00 0.6
1.2s 100.00nm 5.7mb
Z 20s 0.30um 4.4Msz
TIA 58.80 322 eP 38 41.80 -0.7
MDJ 59.00 337 Pd 38 43.50 -0.3
pP 38 52.10 28km
CN2 60.03 334 eP 38 50.20 -0.7
1.0s 20.00nm 5.2mb
Z 18s 0.60um 4.8Msz
epP 38 59.00 29km
LOE 60.93 296 eP 38 56.00 -1.4
BJI 61.92 325 eP 39 03.00 -0.8
1.5s 39.00nm 5.3mb
TIY 62.64 321 Pd 39 07.80 -0.9
Z 24s 0.80um 4.8MszX
XAN 62.79 316 iPc 39 09.00 -0.8
KMI 63.10 304 Pc 39 12.50 0.3
2.0s 130.00nm 5.7mb
pP 39 20.50 26km
CHG 63.90 296 eP 39 17.90 0.6
1.3s 36.54nm 5.3mb
CD2 64.91 310 iPd 39 24.30 0.6
HHC 65.12 323 P 39 25.00 0.1
Z 24s 0.70um 4.8MszX
BTO 65.89 322 eP 39 30.00 0.1
LZH 67.41 315 iPc 39 40.00 0.3
1.5s 190.00nm 6.0mb
Z 30s 0.54um 4.6MszX
pP 39 49.00 29km
PcP 40 07.50
GTA 71.82 317 P 40 07.20 0.5
1.2s 60.00nm 5.5mb
Z 16s 0.60um 5.0MszX
pP 40 21.00 48kmX
GUN 78.18 301 P 40 43.88 0.3
0.9s 57.00nm 5.6mb
PKI 78.48 301 P 40 45.26 0.1
1.3s 50.00nm 5.4mb
ILT 78.62 9 eP 40 45.00 0.4
1.5s 25.00nm 5.0mb
i 40 58.50 46kmX
e 41 37.00
eLR 07 00.00
KKN 78.65 301 P 40 46.16 0.2
0.8s 32.00nm 5.4mb
DMN 78.75 300 P 40 47.02 0.4
1.1s 92.00nm 5.7mb
SVW 79.00 21 eP 40 48.20 1.2
GKN 79.26 301 P 40 49.42 0.2
TTA 80.11 20 eP 40 53.30 0.3
PMR 81.72 23 eP 41 01.40 0.1
0.8s 135.86nm 6.0mb
KOD 81.78 282 eP 41 05.50 2.5X
WMQ 81.91 317 P 41 03.50 0.7
Z 20s 0.90um 5.1Msz
HYB 82.15 289 eP 41 04.30 -0.2
1.0s 25.00nm 5.2mb
GBA 82.45 285 P 41 08.00 2.0X
IMA 82.98 18 eP 41 08.70 0.7
0.8s 6.30nm 4.8mb
TOA 83.16 23 eP 41 10.70 1.8
FBA 84.17 21 eP 41 13.80 -0.1
CMB 89.45 51 eP 41 41.70 1.4
FRI 89.77 53 eP 41 43.30 1.6
ISA 90.49 54 eP 41 46.00 0.8
MWC 90.57 56 eP 41 48.00 2.3X
INK 90.79 20 eP 41 45.00 -0.7
SBB 90.84 55 eP 41 48.00 1.2
RVR 91.08 56 eP 41 49.00 1.2
CLC 91.22 54 eP 41 50.00 1.5
GSC 91.77 55 eP 41 53.00 1.9X
TPC 92.19 56 eP 41 56.00 3.0X
YKA 97.02 28 eP 42 13.10 -1.3
0.8s 3.40nm 4.9mb
MBC 97.11 14 eP 42 15.00 0.4
FRB 116.44 21 ePKP 47 27.00 0.4
HFS 122.23 339 ePKP 47 36.60 -1.1
0.5s 1.60nm
NB2 122.38 341 PKP 47 36.70 -1.4
0.7s 1.70nm
CNCB 128.32 120 PKP 47 53.00 1.5
LPB 128.34 119 PKP 47 46.00 -5.4X
ZOBO 128.44 119 PKPc 47 53.60 1.8
Z 20s 0.18um 4.7Msz
LR 13 30.00
BRG 128.55 331 ePKP 47 51.80 1.5
1.2s 11.00nm
CLL 128.70 332 e(PKP) 47 51.00 0.5
KHC 129.87 330 PKP 47 54.50 1.6
PPD 138.24 138 (PKP) 48 07.00 -2.6
BCAO 138.88 266 ePKPd 48 08.00 -3.0
1.0s 15.00nm
i 48 14.00
ETOR 143.45 333 ePKP 48 20.50 2.1X
GUD 144.49 335 ePKP 48 20.00 -0.2
BAO 144.91 134 ePKPc 48 20.80 -0.7
TOL 145.09 335 ePKP 48 22.30 1.2
EVIA 145.42 332 ePKP 48 23.00 1.2
EBAN 146.39 333 ePKP 48 25.50 2.2X
ECOG 147.01 331 ePKP 48 26.00 1.6
AFC 147.02 331 ePKP 48 26.00 1.5
EHOR 147.32 334 ePKP 48 28.80 4.1X
EVAL 148.15 336 ePKP 48 30.70 4.6X
AVE 152.06 332 ePKP 48 42.00 9.8X
e 48 53.00
TIO 153.93 329 ePKP 48 40.00 5.0X
e 48 48.00
SOB1 154.33 134 (PKP) 48 45.00 9.1X
S.D. = 1.2 on 84 of 104 obs.

& MAR 11, 1991 07h 15m 21.78s
63.210 N 150.476 W
DEPTH = 123.2km
CENTRAL ALASKA (1)
<AEIC>.

TRF 0.26 19 iPc 15 39.09 1.4
eS 15 52.08
HUR 0.45 121 ePc 15 39.55 -0.5
eS 15 52.72
RND 0.76 74 iPc 15 41.80 -0.5
eS 15 56.64
CUT 0.81 173 iPd 15 42.33 -0.3
S 15 58.26
MCK 0.87 52 iPc 15 42.76 -0.4
eS 15 58.48
BWN 1.07 25 iPc 15 44.97 -0.1
SKT 1.33 202 iPd 15 47.24 -0.6
eS 16 07.38
NEA 1.51 24 iPc 15 48.83 -1.0
eS 16 08.57
PWA 1.59 170 ePd 15 50.55 -0.2
GHO 1.61 153 ePd 15 50.78 -0.4
eS 16 13.09
WRH 1.65 39 iPc 15 50.74 -0.8
PLRM 1.74 158 ePd 15 51.75 -0.9
eS 16 15.30
PMR 1.74 158 eP 15 52.20 -0.4
SUA 1.76 184 eP 15 52.76 -0.2
CCB 1.86 38 iPc 15 53.21 -0.9
RDS 1.92 31 iPc 15 54.01 -0.9
HDA 1.97 51 ePc 15 54.50 -1.0
NCG 1.98 204 eP 15 55.27 -0.4
eS 16 21.14
MDM 2.01 28 iPc 15 55.18 -0.9
PMS 2.02 167 eP 15 55.68 -0.4
eS 16 20.31
KNK 2.04 151 eP 15 55.61 -0.7
eS 16 21.39
FBA 2.07 34 iPc 15 56.30 -0.4
CRP 2.10 203 eP 15 57.25 -0.1
eS 16 23.06
THY 2.14 82 eP 15 58.33 0.6
DDM 2.15 72 eP 15 57.64 -0.2
S 16 24.29
BGL 2.15 205 eP 15 58.47 0.6
SPU 2.17 201 eP 15 57.88 -0.1
eS 16 24.91
CKL 2.20 204 eP 15 58.97 0.5
eS 16 25.85
GLM 2.24 36 iPc 15 58.09 -0.9
TOA 2.28 117 eP 15 59.60 0.2
PAX 2.29 94 ePd 15 59.03 -0.6
eS 16 27.73
SDG 2.36 105 eP 15 59.81 -0.7
NKA 2.50 189 eP 16 04.67 2.4
TTA 2.54 266 eP 16 02.50 -0.3
TZL 2.61 114 eP 16 03.21 -0.5
SLKM 2.71 177 eP 16 04.97 -0.1
KLU 2.74 127 ePc 16 03.89 -1.5
RDT 2.80 200 ePc 16 06.88 0.6

11d 07h

GLI	2.83	144	eP	16 04.87	-1.7
VZW	2.84	138	ePd	16 04.80	-1.9
VLZ	2.85	135	ePd	16 04.75	-2.0
NCT	2.90	205	eP	16 08.05	0.4
RDN	2.91	203	eP	16 07.51	-0.3
REF	2.93	202	eP	16 07.26	-0.8
RS2	2.96	202	eP	16 08.48	0.0
RSO	2.96	202	eP	16 09.40	0.9
RED	3.01	202	eP	16 09.81	0.8
KNIM	3.15	154	iPc	16 08.95	-1.9
SEW	3.16	171	eP	16 09.95	-0.9
IMA	3.18	336	eP	16 10.90	-0.5
NNL	3.20	187	eP	16 12.58	1.1
SVW	3.21	231	eP	16 11.60	0.0
BRLK	3.46	183	eP	16 14.41	-0.6
MTU	3.50	156	ePc	16 13.92	-1.6
GLB	3.58	117	iPd	16 15.33	-1.3
HOM	3.61	189	eP	16 17.03	0.1
CNPM	3.72	186	ePc	16 17.60	-0.8
PDB	3.87	209	eP	16 20.11	-0.3
BALM	4.40	116	eP	16 25.98	-1.7
CDD	4.56	201	eP	16 29.20	-0.7
SYI	4.71	192	eP	16 30.28	-1.5
INK	8.63	46	eP	17 25.00	0.0

62 obs. associated

? MAR 11, 1991 07h 38m 50.01± 6.93s
15.897 N ±14.1km 60.680 W ±48.7km
DEPTH = 10.0km (geophysicist)
LEEWARD ISLANDS (92)
ML 2.4 (FDF).

DEG	0.55	319	ePc	39 01.22	0.0
			S	39 08.20	
SFG	0.61	306	eP	39 02.40	0.1
			S	39 11.00	
BBL	0.85	244	eP	39 06.50	0.0
			S	39 16.50	
DOG	0.91	279	eP	39 07.60	0.1
			S	39 18.20	
SEG	0.94	302	ePc	39 07.44	-0.5
			S	39 17.60	
PAG	0.97	278	eP	39 08.50	0.0
			S	39 20.40	

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

• MAR 11, 1991 07h 54m 34.71± 1.25s
24.151 N ±21.3km 95.923 E ±17.8km
DEPTH = 33.0km (normal)
3.9mb (1 obs.)
BURMA (296)

CHG	6.01	152	ePn	56 02.90	-0.8
			ePg	56 23.00	
			iSg	57 38.00	
GUN	9.78	295	P	56 56.64	0.1
PKI	10.06	292	P	57 00.40	0.0
KKN	10.24	293	P	57 02.42	-0.3
DMN	10.33	292	P	57 04.02	0.0
GKN	10.85	293	P	57 10.46	-0.5
GBA	20.37	242	P	59 12.00	0.6
WRA	57.63	136	P	04 25.00	0.8
	0.7s		0.90nm		3.9mb

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

% MAR 11, 1991 07h 56m 08.58± 0.84s
42.853 N ± 5.8km 12.685 E ± 8.2km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)
MD 2.7 (SSO).

ASS	0.22	355	P	56 13.20	-0.1
			eSg	56 16.10	
MNS	0.47	180	P	56 18.00	-0.1
			eSg	56 27.10	
CIO	0.48	44	iPg	56 18.20	-0.1
			iSg	56 25.84	
ALP	0.66	96	ePg	56 22.03	0.2
			iSg	56 33.16	
CRE	0.94	326	P	56 26.80	0.2

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

• MAR 11, 1991 08h 43m 30.67± 1.88s
23.994 S ±16.6km 67.619 W ±16.3km
DEPTH = 128.9 ± 18.9 km
3.9mb (1 obs.)
CHILE-ARGENTINA BORDER REGION (127)

ANT	2.58	276	iP	44 12.30	0.0
			iS	44 40.70	
CCH	6.72	12	eP	45 08.00	-0.5
CNCB	7.16	357	P	45 15.00	0.3
LPB	7.44	356	eP	45 19.00	0.7
ZOBO	7.70	356	P	45 21.50	-0.5
BAO	20.23	69	ePd	47 58.00	0.1
YKA	93.92	340	eP	56 34.10	-0.1
	0.7s		0.50nm		3.9mb

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

MAR 11, 1991 08h 47m 02.26± 0.66s
43.000 N ± 5.2km 18.721 E ± 4.2km
DEPTH = 5.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.2 (TTG).

BRY	0.16	233	iPgd	47 05.57	-0.1
			iSg	47 07.72	
NKY	0.28	133	iPgc	47 08.66	0.8
			iSg	47 14.07	
HCY	0.58	197	iPgc	47 13.84	0.0
			iSg	47 22.26	
PLE	0.59	56	iPgc	47 14.09	0.0
			iS	47 24.84	
TTG	0.70	145	iPgd	47 15.47	-0.7
			iSg	47 26.96	
BDV	0.72	174	iPgc	47 16.72	0.0
			iSg	47 28.06	
IVA	0.87	98	iPgd	47 19.19	-0.4
			iSg	47 34.32	
PVY	1.01	113	iPgc	47 22.12	0.2
			iSg	47 38.42	
ULC	1.11	159	iPgc	47 23.51	0.0
			iSg	47 42.87	
HVAR	1.67	277	iPg	47 32.50	0.2
			iSn	47 56.20	

S.D. = 0.4 on 10 of 10 obs

MAR 11, 1991 09h 09m 34.44± 0.31s
49.023 N ± 6.2km 155.675 E ± 5.4km
DEPTH = 33.0km (normal)
4.9mb (35 obs.)
KURIL ISLANDS (221)

PET	4.42	24	eP	10 41.50	0.7
			eS	11 32.00	
KUSJ	9.65	236	eP	11 52.80	-1.2
			eS	13 35.20	
ASAJ	10.22	246	eP	12 05.90	4.0X
HOOJ	10.91	237	eP	12 10.40	-0.8
			eS	14 07.10	
AOMJ	13.75	238	eP	12 48.40	-0.8
OFUJ	14.13	231	eP	12 50.70	-3.5X
			eS	15 23.00	
MDJ	18.35	266	eP	13 48.40	0.6
CN2	21.40	267	eP	14 20.00	-1.2
ILT	22.87	25	eP	14 35.50	0.0
	1.0s		14.00nm		4.4mb
			i	14 40.00	
			e	14 47.00	
			e	15 03.00	
IMA	30.95	38	eP	15 49.90	-0.4
TIY	32.98	266	eP	16 09.00	0.7
FBA	33.31	40	eP	16 10.90	0.2
	0.6s		9.85nm		4.9mb
INK	38.80	34	ePc	16 57.20	0.0
MBC	41.86	21	eP	17 22.00	-0.3
	0.9s		3.00nm		4.0mb
GYA	43.89	257	P	17 40.40	0.8
YKA	48.07	39	eP	18 11.80	-0.4
	0.6s		1.50nm		4.2mb
CHG	54.31	257	ePc	19 01.00	1.2
	1.0s		22.00nm		5.1mb
GUN	56.52	275	P	19 15.50	-0.7
KKN	56.99	276	P	19 18.76	-0.6
PKI	57.05	275	P	19 20.50	0.5
DMN	57.22	276	P	19 21.62	0.5
GKN	57.27	276	P	19 19.76	-1.5
FFC	57.89	42	eP	19 25.00	-0.1
	0.7s		6.00nm		4.8mb
TNP	60.75	65	P	19 45.00	-0.3
	0.7s		2.22nm		4.4mb
BW06	62.02	56	P	19 54.00	0.1
FRB	62.33	21	ePc	19 52.30	-3.0
RSSD	64.05	52	P	20 06.70	-0.6
	0.7s		6.92nm		4.9mb
HFS	66.91	340	eP	20 22.70	-2.4
	0.4s		1.90nm		4.5mb
HYB	68.65	272	eP	20 36.50	-0.1
ALO	69.20	61	eP	20 40.00	0.1
WB2	71.24	201	eP	20 52.70	0.6
WRA	71.24	201	P	20 52.00	-0.2
	1.0s		3.10nm		4.3mb
ASPA	74.93	201	iPc	21 15.30	1.6
	0.5s		3.10nm		4.6mb
CLL	75.08	337	iP	21 13.80	-0.5
	1.2s		12.00nm		4.8mb
ZST	76.75	333	eP	21 23.90	0.1
ENN	77.27	341	eP	21 26.00	-0.6
	1.0s		27.00nm		5.2mb
KBA	78.85	335	iPd	21 36.20	0.6
	0.6s		23.10nm		5.4mb
			i	21 41.00	
			i	21 52.60	
CDF	79.18	339	eP	21 36.80	-0.4
	0.7s		8.80nm		4.9mb
SLE	79.49	338	ePd	21 38.50	-0.3
HAU	79.77	340	eP	21 39.90	-0.5
	0.7s		4.40nm		4.6mb
BSF	79.83	339	eP	21 40.10	-0.7
OSS	80.07	337	ePd	21 42.60	0.4
LLS	80.20	338	ePd	21 43.10	0.2
VDL	80.43	337	ePd	21 44.60	0.4
FLN	80.44	344	eP	21 43.60	-0.3
	0.8s		13.45nm		5.0mb
LDF	80.54	344	eP	21 44.10	-0.3
	0.8s		9.40nm		4.8mb
GRR	80.87	344	eP	21 46.00	-0.1
	0.9s		32.75nm		5.3mb
LOR	81.02	341	eP	21 46.70	-0.3
	0.9s		15.55nm		5.0mb
MMK	81.22	338	ePd	21 48.90	0.6
LPF	81.25	344	eP	21 48.20	0.1
	1.0s		20.00nm		5.1mb
LBF	81.26	341	eP	21 48.00	-0.3
	0.9s		6.55nm		4.6mb
SSF	81.29	341	eP	21 48.30	-0.1
	0.8s		8.75nm		4.8mb
DIX	81.33	338	ePd	21 49.50	0.6
EMS	81.45	339	ePd	21 49.80	0.3
AVF	81.58	341	eP	21 49.80	-0.1
	0.9s		11.45nm		4.9mb
SMF	81.62	341	eP	21 50.00	-0.1
	0.8s		8.05nm		4.8mb
RSL	81.89	339	P	21 52.00	0.3
BGF	81.91	341	eP	21 51.90	0.3
LPL	82.02	339	eP	21 53.10	0.6
	0.8s		16.10nm		5.1mb
LPG	82.03	338	eP	21 53.20	0.5
	0.8s		15.45nm		5.1mb
MAF	82.29	342	eP	21 54.20	0.6
	1.0s		16.00nm		5.0mb
TCF	82.30	342	eP	21 53.80	0.1
	1.0s		8.00nm		4.7mb
MFF	82.46	343	eP	21 54.70	0.2
LSF	82.48	342	eP	21 54.90	0.3
	0.9s		13.10nm		5.0mb
MML	83.03	313	eP	21 58.50	0.8
RJF	83.38	342	eP	21 59.60	0.3
	0.8s		8.05nm		4.9mb
SBF	83.40	337	eP	21 59.20	-0.3
	0.8s		21.50nm		5.3mb
CAF	83.63	341	eP	22 01.30	0.7
LFF	83.89	342	eP	22 02.60	0.8
LPO	84.05	342	eP	22 03.20	0.6
LRG	84.05	338	eP	22 03.00	0.4
	0.8s		12.10nm		5.1mb
LMR	84.13	338	eP	22 03.10	0.0
	0.9s		11.45nm		5.0mb
PGF	84.22	336	eP	22 03.40	-0.3
	0.9s		11.45nm		5.0mb
MKT	84.38	312	eP	22 05.00	0.4
MBH	85.48	311	eP	22 11.00	0.8
EPF	85.80	342	eP	22 12.80	1.3

S.D. = 0.7 on 74 of 76 obs.

& MAR 11, 1991 09h 57m 22.81s
64.017 N 148.143 W
DEPTH = 103.6km
CENTRAL ALASKA (1)
<AEIC>.

MCK	0.45	231	iP	57 38.87	0.0

			eS	57	50.85	
WRH	0.46	3	iP	57	38.85	0.0
BWN	0.60	286	iP	57	39.53	-0.4
CCB	0.65	13	iP	57	39.99	-0.3
			eS	57	52.98	
HDA	0.65	53	iP	57	40.22	-0.2
			eS	57	53.41	
RND	0.69	208	iP	57	40.29	-0.5
			eS	57	53.65	
NEA	0.69	325	eP	57	41.67	0.9
RDS	0.81	360	iP	57	41.50	-0.4
			eS	57	55.59	
FBA	0.90	10	iP	57	42.27	-0.4
			eS	57	57.62	
MDM	0.95	358	iP	57	42.84	-0.4
			eS	57	58.16	
GLM	1.03	18	iP	57	43.55	-0.6
			eS	57	59.32	
DDM	1.03	102	iP	57	43.96	-0.3
			eS	57	59.33	
TRF	1.11	240	eP	57	44.83	-0.4
THY	1.22	118	eP	57	46.31	0.0
HUR	1.24	213	iP	57	46.05	-0.5
			eS	58	03.47	
PAX	1.59	130	eP	57	50.82	-0.1
			eS	58	12.20	
DOT	1.85	100	eP	57	52.80	-1.3
CUT	1.88	212	iP	57	53.79	-0.7
SDG	1.90	141	eP	57	55.05	0.3
TOA	2.12	154	eP	57	58.60	0.9
GHO	2.28	189	eP	57	59.48	-0.3
TZL	2.34	147	eP	58	01.25	0.8
TMW	2.40	105	eP	58	00.22	-1.1
PLRM	2.48	191	eP	58	02.03	-0.3
PWA	2.51	199	eP	58	02.65	0.0
SKT	2.56	219	eP	58	02.03	-1.5
KNK	2.62	183	eP	58	03.65	-0.6
KLU	2.73	157	eP	58	05.56	-0.3
SUA	2.83	206	eP	58	07.67	0.5
PMS	2.86	194	eP	58	08.40	0.9
VZW	3.06	165	eP	58	09.57	-0.7
GLI	3.19	171	eP	58	10.35	-1.6
NCG	3.21	217	eP	58	11.06	-1.3
GLB	3.26	140	eP	58	12.09	-0.9
SPU	3.37	214	eP	58	13.71	-0.8
BGL	3.39	217	eP	58	15.36	0.6
CKL	3.43	216	eP	58	15.90	0.5
NKA	3.59	205	eP	58	17.85	0.5
SLKM	3.65	196	eP	58	17.66	-0.7
RDT	3.99	212	eP	58	21.84	-1.1
BALM	4.02	135	eP	58	22.55	-0.9
MTU	4.05	177	eP	58	22.40	-1.3
NCT	4.13	215	eP	58	23.85	-1.0
RDN	4.13	214	eP	58	24.19	-0.7
REF	4.13	213	eP	58	24.10	-0.9

45 abs. assaciated

& MAR 11, 1991 10h 07m 59.74s
60.818 N 150.306 W
DEPTH = 33.4km
KENAI PENINSULA, ALASKA (14)
<AEIC>.

SLKM	0.31	172	iPd	08	07.48	-0.3
			eS	08	13.90	
NKA	0.46	261	iPd	08	10.97	1.2
PMS	0.56	40	iPc	08	10.22	-1.0
			iS	08	18.76	
SUA	0.68	342	ePc	08	12.11	-0.9
			eS	08	22.10	
SEW	0.83	149	eP	08	14.16	-0.8
PWA	0.86	14	ePc	08	14.50	-0.9
			eS	08	26.78	
NNL	0.92	213	ePc	08	16.28	0.0
SPU	0.93	294	iPd	08	15.68	-0.8
			iS	08	28.48	
PLRM	0.96	36	ePc	08	15.63	-1.3
			eS	08	29.40	
CRP	1.01	297	ePd	08	16.95	-0.8
			eS	08	31.27	
CKL	1.06	292	iPd	08	17.73	-0.7
			eS	08	32.27	
RDT	1.06	258	iPc	08	17.69	-0.7
			iS	08	32.30	
NCG	1.07	304	ePd	08	18.08	-0.5
KNK	1.08	56	iPc	08	17.63	-1.0
			eS	08	32.61	
BRLK	1.10	196	eP	08	17.93	-0.9
			eS	08	33.02	
BGL	1.11	295	ePd	08	18.48	-0.6
			S	08	34.07	
GHO	1.17	34	iPc	08	19.04	-0.9
			eS	08	34.81	
REF	1.23	255	ePc	08	20.15	-0.7
			S	08	35.47	
RDN	1.25	257	ePc	08	20.15	-0.9
			eS	08	36.49	
RSO	1.26	255	ePc	08	20.62	-0.7
RS2	1.26	255	ePc	08	20.69	-0.6
RED	1.28	253	ePc	08	20.75	-0.8
			eS	08	37.89	
SKT	1.31	334	ePc	08	21.46	-0.4
			eS	08	37.10	
NCT	1.32	260	ePc	08	21.24	-0.8
			eS	08	38.43	
HOM	1.34	210	eP	08	21.96	-0.3
KNIM	1.35	109	ePd	08	20.19	-2.3
			eS	08	39.17	
CNPM	1.38	200	iPc	08	22.41	-0.5
			eS	08	39.87	
MTU	1.56	121	eP	08	24.04	-1.4
GLI	1.57	86	ePd	08	23.77	-1.9
			eS	08	42.59	
CUT	1.59	1	eP	08	25.39	-0.5
VZW	1.85	81	iPc	08	27.88	-1.8
			S	08	49.67	
VLZ	1.96	79	eP	08	29.57	-1.7
PDB	2.19	244	eP	08	33.83	-0.7
KLU	2.23	70	eP	08	33.40	-1.8
TOA	2.37	55	eP	08	36.54	-0.6
SYI	2.45	206	eP	08	37.18	-1.1
CDD	2.53	223	eP	08	38.95	-0.5
TZL	2.65	60	eP	08	41.65	0.6
RND	2.69	14	eP	08	42.20	0.6
SDG	2.85	51	eP	08	44.80	1.0
PAX	3.15	45	eP	08	50.03	1.8
GLB	3.21	76	eP	08	46.66	-2.4

42 abs. assaciated

? MAR 11, 1991 10h 12m 32.36± 1.57s
31.234 S ±28.2km 69.080 W ±39.4km
DEPTH = 100.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTCB	0.35	136	eP	12	47.20	-0.3
ZON	0.46	132	iPd	12	48.50	0.3
			eS	13	00.50	
RTLL	0.53	100	iPc	12	48.50	-0.2
			eS	13	00.80	
CFA	0.81	118	iPd	12	51.20	0.1
			eS	13	07.00	
RTRS	1.11	343	ePc	12	54.30	0.0

S.D. = 0.3 an 5 af 5 obs.

& MAR 11, 1991 10h 26m 41.57s
63.511 N 150.669 W
DEPTH = 15.8km
CENTRAL ALASKA (1)
<AEIC>. ML 3.8 (PMR).

TRF	0.18	109	iPd	26	46.24	-0.1
HUR	0.71	138	iPd	26	55.10	0.0
			eS	27	05.59	
MCK	0.81	73	ePd	26	57.17	0.4
			eS	27	09.65	
NEA	1.28	32	iPd	27	03.58	-1.1
			eS	27	21.15	
WRH	1.49	49	ePc	27	07.09	-0.6
			eS	27	27.98	
SKT	1.59	195	ePd	27	08.51	-0.6
			iS	27	29.81	
RDS	1.72	39	ePd	27	09.99	-1.1
			eS	27	34.25	
FBA	1.88	41	iPd	27	12.80	-0.5
	0.6s		140.39nm			
PMR	2.05	159	eP	27	16.10	0.3
	0.5s		227.27nm			
			eS	27	43.20	
PAX	2.41	101	eP	27	21.90	0.8
TTA	2.49	259	eP	27	22.40	0.3
			i	27	26.80	
TOA	2.50	122	eP	27	23.90	1.6
SDG	2.54	111	ePc	27	23.82	1.0
NKA	2.79	186	eP	27	28.10	1.8
TZL	2.82	119	eP	27	29.08	2.2
IMA	2.87	335	eP	27	26.10	-1.5
KLU	2.99	130	eP	27	29.91	0.6
SLKM	3.02	176	eP	27	30.20	0.6
RDT	3.06	196	ePc	27	29.85	-0.4
			S	28	08.36	
VZW	3.12	140	eP	27	31.78	0.7
GLI	3.13	146	ePc	27	31.73	0.6
VLZ	3.13	138	eP	27	31.65	0.5
NCT	3.15	201	eP	27	32.19	0.7
RDN	3.17	199	eP	27	31.26	-0.5
REF	3.18	198	eP	27	32.67	0.6
RS2	3.21	199	eP	27	33.04	0.5
RSO	3.21	199	eP	27	32.68	0.1
RED	3.26	199	eP	27	33.46	0.4
SVW	3.34	226	eP	27	37.30	3.1
			i	27	43.30	
TMW	3.45	90	eP	27	38.92	3.1
KNIM	3.46	155	ePd	27	35.41	-0.5
SEW	3.47	170	eP	27	37.84	1.9
NNL	3.49	185	eP	27	37.62	1.3
HIN	3.69	146	eP	27	39.27	0.0
BRLK	3.76	182	eP	27	41.51	1.3
CVA	3.77	140	eP	27	41.16	0.9
GLB	3.80	120	ePc	27	41.87	1.1
MTU	3.82	157	eP	27	40.44	-0.5
HOM	3.89	187	eP	27	42.21	0.2
SGAM	3.97	137	eP	27	43.03	0.0
CNPM	4.01	184	eP	27	44.17	0.5
PDB	4.10	206	eP	27	43.53	-1.3
RAGM	4.22	135	eP	27	47.09	0.4
HMT	4.39	134	eP	27	49.37	0.2
TGL	4.60	123	eP	27	51.92	-0.3
BALM	4.61	119	eP	27	52.66	0.3
WAX	4.80	126	eP	27	55.28	0.4
CDD	4.82	199	eP	27	56.14	1.0
CTGM	5.06	116	eP	27	59.56	0.9
YAH	5.26	123	eP	28	01.37	-0.3
WRG	5.38	126	eP	28	03.98	0.9
ANM	6.54	286	eP	28	17.00	-2.4
INK	8.48	48	P	28	43.00	-3.5
YKA	16.27	77	eP	30	32.00	1.4
	0.4s		0.20nm			2.6mb

54 abs. assaciated

% MAR 11, 1991 10h 42m 31.29± 2.85s
40.091 N ±10.3km 27.770 E ±22.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

EDC	0.27	16	ePg	42	37.00	0.1
BNT	0.29	23	iPg	42	37.30	0.0
KCT	0.48	71	ePg	42	41.00	0.0
DST	0.82	126	iPg	42	47.20	0.0
			iSg	43	01.00	
CTT	1.17	25	ePg	42	53.00	-0.1

S.D. = 0.1 an 5 af 5 obs.

MAR 11, 1991 11h 22m 35.41± 0.31s
44.208 N ± 3.7km 10.450 E ± 2.7km
DEPTH = 10.6 ± 2.1 km
NORTHERN ITALY (545)
ML 3.2 (LDG), 2.7 (GEN). MD 2.7 (ROM).

BDI	0.18	144	Pc	22	40.90	1.3
			eSg	22	43.80	
MME	0.18	94	P	22	40.50	0.8
			eSg	22	43.10	
FIR	0.72	126	ePg	22	49.00	-0.6
			eSg	23	00.00	
BOB	0.91	308	P	22	53.50	0.7
			eSg	23	07.90	
PGD	0.98	109	P	22	55.30	1.3
			eSg	23	08.40	
CRE	1.23	118	P	22	58.40	0.1
			eSn	23	15.10	
PCP	1.41	284	P	23	01.24	0.2
			S	23	19.99	
CKI	1.57	279	P	23	03.40	0.1
			eSn	23	25.10	
FIN	1.61	271	P	23	03.90	0.0
			S	23	24.59	
MDI	1.65	342	P	23	04.90	0.4
			eSn	23	25.70	
ROB	1.86	274	P	23	07.26	-0.2
			S	23	29.72	

11d 11h

IMI	1.87	262	P	23 07.08	-0.6
			S	23 29.36	
ARV	1.94	111	P	23 08.90	0.3
			eSg	23 32.60	
ASS	1.97	125	P	23 09.00	-0.1
			eSn	23 33.00	
PGF	1.97	213	Pn	23 09.20	0.0
			Sn	23 33.20	
CTI	2.03	24	P	23 09.30	-0.7
			eSn	23 33.90	
VAI	2.04	325	P	23 11.10	1.0
ENR	2.18	272	P	23 12.16	-0.1
			S	23 37.71	
SBF	2.20	262	Pn	23 12.00	-0.5
			Sn	23 39.40	
STV	2.25	272	P	23 12.92	-0.3
			S	23 39.38	
ORX	2.26	310	P	23 13.98	0.6
			S	23 42.45	
DOI	2.32	278	P	23 14.20	0.0
BHB	2.37	287	P	23 17.75	2.9X
			S	23 47.85	
VDL	2.38	343	ePd	23 15.70	0.5
PZZ	2.42	278	P	23 15.75	0.0
			S	23 43.69	
RSP	2.47	294	P	23 16.28	0.0
OSS	2.49	355	ePd	23 17.70	1.0
LSD	2.66	299	P	23 18.58	-0.6
RRL	2.72	286	P	23 22.29	2.3
TRI	2.79	56	e(P)	23 18.70	-2.1
			e	23 52.00	
BNI	2.82	289	P	23 21.80	0.3
FRF	2.83	258	Pn	23 21.00	-0.3
			Sn	23 53.60	
LLS	2.85	340	ePc	23 23.20	1.3
DIX	2.85	312	ePd	23 26.30	4.3X
FVI	2.90	34	P	23 21.10	-1.2
LPL	2.95	298	Pn	23 23.80	0.5
LMR	2.99	254	Pn	23 22.80	-0.8
			Sn	23 57.00	
LRG	3.05	257	Pn	23 24.20	-0.3
			Sn	23 59.00	
EMS	3.11	308	ePc	23 28.20	2.7
SAX	3.14	346	ePc	23 27.80	1.8
KBA	3.52	34	e(Pn)	23 19.00	-12.3X
			e	23 33.00	
			i	23 46.30	
			i	23 48.50	
			i	24 02.00	
			e(Sg)	24 10.50	
SLE	3.81	340	ePc	23 34.20	-1.2
BSF	4.43	326	Pn	23 44.00	-0.2
			Sn	24 33.10	
CDF	4.75	334	Pn	23 47.30	-1.4
			Sn	24 40.30	
HAU	4.75	325	Pn	23 47.80	-0.9
			Sn	24 40.60	
SMF	5.25	300	Pn	23 55.10	-0.7
LBF	5.32	304	Pn	23 56.40	-0.4
			Sn	24 55.60	
LOR	5.54	306	Pn	23 59.50	-0.3
			Sn	24 59.80	
BGF	5.85	296	Pn	24 04.00	-0.1

S.D. = 1.0 on 46 of 49 obs.

& MAR 11, 1991 13h 50m 52.08s
60.018 N 153.614 W
DEPTH = 148.1km
SOUTHERN ALASKA (2)
<AEIC>.

PDB	0.37	232	iP	51 11.90	0.6
			eS	51 27.29	
RED	0.58	46	eP	51 13.11	-0.9
RS2	0.62	43	eP	51 13.17	-1.2
RSO	0.62	44	eP	51 13.59	-0.8
NCT	0.64	32	eP	51 13.44	-1.0
			S	51 29.73	
RDN	0.65	40	iP	51 13.69	-0.8
			eS	51 30.44	
REF	0.66	44	iP	51 13.70	-0.9
			S	51 30.87	
AUE	0.67	169	iP	51 13.63	-0.8
RDT	0.82	47	eP	51 14.64	-0.9
MCNL	0.91	204	iP	51 15.19	-1.0
HOM	1.06	109	eP	51 16.44	-1.0
			eS	51 35.58	
CDD	1.09	181	iP	51 16.66	-1.1
NNL	1.16	88	eP	51 18.27	-0.2
CNPM	1.30	111	iP	51 18.47	-1.3
			eS	51 38.16	
CKL	1.34	27	iP	51 19.66	-0.6
			eS	51 40.72	
NKA	1.39	57	eP	51 21.12	0.5
BGL	1.39	25	eP	51 20.45	-0.3
SPU	1.40	33	iP	51 19.86	-1.0
BRLK	1.40	99	eP	51 19.63	-1.2
			eS	51 39.48	
CRP	1.44	29	eP	51 20.64	-0.8
SVW	1.48	319	eP	51 20.85	-0.8
SYI	1.55	156	iP	51 20.63	-1.6
			eS	51 42.51	
NCG	1.56	27	eP	51 22.24	-0.4
SLKM	1.76	72	eP	51 23.14	-1.6
SUA	2.02	43	eP	51 26.34	-1.5
SKT	2.22	26	eP	51 28.74	-1.3
PMS	2.35	57	eP	51 29.45	-2.3
PWA	2.46	47	eP	51 31.01	-2.0
PLRM	2.71	52	eP	51 33.05	-3.1
CUT	2.89	33	eP	51 36.86	-1.6
GHO	2.89	50	eP	51 35.59	-3.0
KNK	2.90	59	eP	51 35.26	-3.3
KNIM	2.96	81	eP	51 36.22	-3.1
MTU	2.99	88	eP	51 38.31	-1.5
VZW	3.64	70	eP	51 45.52	-2.8

35 obs. associated

MAR 11, 1991 15h 33m 46.45± 0.39s
60.883 N ± 8.7km 166.778 E ± 6.0km
DEPTH = 33.0km (normal)
4.7mb (28 obs.)
EASTERN SIBERIA (671)

ILT	9.41	35	iPc	36 01.40	-1.3
	0.8s		14.00nm	5.2mb	
	Z 11s		2.00um	5.7MszX	
			i	36 09.00	
			i	36 22.50	
TTA	17.48	67	eP	37 50.70	1.7
BRW	17.74	39	eP	37 55.00	3.0X
IMA	18.16	56	eP	37 58.50	1.1
	1.3s		16.40nm	4.0mb	
FBA	20.72	59	eP	38 25.30	-0.8
PMR	20.93	69	e(P)	38 31.50	3.3X
TOA	22.11	66	eP	38 40.30	0.1
	1.2s		128.50nm	5.2mb	
INK	25.65	48	eP	39 14.00	-0.2
MBC	28.43	29	eP	39 40.00	0.6
CN2	29.83	254	eP	39 52.40	0.1
	Z 12s		0.60um	4.4MszX	
			epP	39 56.00	12kmX
MAT	30.34	230	eP	39 57.00	0.0
	0.9s		10.92nm	4.7mb	
YKA	35.18	52	eP	40 37.70	-1.0
	0.7s		3.80nm	4.4mb	
BJI	37.13	259	eP	40 56.00	0.6
	0.7s		7.00nm	4.6mb	
TIY	40.76	261	eP	41 27.00	1.3
	N 12s		0.30um		
DAG	42.55	2	eP	41 41.00	1.2
	1.1s		8.86nm	4.4mb	
FFC	45.23	55	ePc	42 01.00	-0.7
	0.9s		12.00nm	4.8mb	
GTA	45.59	274	eP	42 05.60	0.7
	0.9s		10.00nm	4.7mb	
LZH	46.23	267	eP	42 10.50	0.4
	1.0s		18.00nm	5.0mb	
			sP	42 24.50	
WMO	48.02	287	eP	42 24.40	0 4
FRB	48.89	29	eP	42 29.00	-1.2
KAF	53.67	338	eP	43 09.00	2.6X
NUR	55.46	338	eP	43 22.00	2.5X
KMI	55.78	260	eP	43 22.60	0.1
NB2	56.96	346	P	43 30.00	-0.4
	0.8s		13.10nm	5.0mb	
SCH	57.10	34	eP	43 30.00	-1.4
HFS	57.53	344	eP	43 33.00	-1.3
	0.8s		7.50nm	4.8mb	
	Z 15s		0.04um	3.7MszX	
			LR	05 39.00	
GUN	61.67	277	P	44 03.40	-0.2
	0.9s		23.00nm	5.3mb	
KKN	62.06	277	P	44 04.20	-1.9
PKI	62.18	277	PKP	44 04.20	-2.8
GKN	62.19	278	P	44 06.40	-0.5
DMN	62.29	277	PKP	44 04.00	-3.7X
LOE	62.85	257	eP	44 05.00	-6.1X
CHG	62.97	260	eP	44 12.00	0.0
EKA	63.86	354	P	44 14.00	-3.3X
	0.8s		4.90nm	4.7mb	
SPC	67.01	337	eP	44 30.00	-7.9X
ZST	68.55	339	eP	44 48.50	1.2
CDF	69.81	346	eP	44 55.20	0.1
FLN	70.23	351	eP	44 57.40	-0.1
	0.7s		4.40nm	4 6mb	
	Z 20s		0.05um	3.8Msz	
KBA	70.26	341	e(P)	45 01.00	3.0X
	1.4s		10.40nm	4.7mb	
HAU	70.32	346	eP	44 58.20	0.1
LDF	70.37	351	eP	44 58.20	-0.2
	0.8s		8.05nm	4.8mb	
LPF	70.99	351	eP	45 02.50	0.3
LOR	71.32	348	eP	45 04.20	0.0
	1.0s		16.00nm	5.0mb	
SSF	71.56	348	eP	45 05.90	0.3
	1.2s		13.40nm	4.8mb	
AVF	71.84	348	eP	45 07.50	0.2
	0.9s		9.85nm	4.8mb	
TCF	72.45	349	eP	45 11.30	0.3
MAF	72.48	349	eP	45 11.60	0.5
	1.0s		7.00nm	4.6mb	
LSF	72.55	349	eP	45 11.80	0.3
LPG	72.74	345	eP	45 13.80	0.8
	1.0s		6.00nm	4.5mb	
CAF	73.82	349	eP	45 20.00	1.1
	1.0s		10.00nm	4.8mb	
HYB	74.10	277	eP	45 20.80	-0.2
LPO	74.14	349	eP	45 21.70	0.9
	1.0s		8.00nm	4.7mb	
EPF	75.85	350	eP	45 31.10	0.4
	1.0s		4.00nm	4.4mb	
GBA	77.92	276	Pd	45 41.90	-0.5
	0.8s		2.30nm	4.3mb	
WB2	84.68	210	iPc	46 17.90	0.1
	0.7s		6.20nm	4.9mb	
WRA	84.69	210	iPc	46 17.90	0.1
	0.7s		6.20nm	4.9mb	

S.D. = 0.9 on 47 of 56 obs.

MAR 11, 1991 16h 17m 29.68± 0.37s
44.231 N ± 2.9km 7.077 E ± 3.8km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.6 (LDG).

TOUF	0.25	150	Pg	17 35.42	0.3
			Sg	17 39.40	
MVIF	0.34	171	Pg	17 36.78	0.0
			Sg	17 42.26	
AUTN	0.35	133	Pg	17 37.17	0.3
			Sg	17 42.26	
FOUF	0.37	325	iPgd	17 36.95	-0.2
			i	17 40.20	
AURF	0.39	152	Pg	17 37.78	0.1
			Sg	17 43.35	
SAOF	0.42	125	Pg	17 38.39	0.1
			Sg	17 44.17	
SBF	0.45	145	Pg	17 39.00	0.1
			Sg	17 45.40	
CALN	0.50	196	Pg	17 39.83	0.0
FRF	0.74	205	Pg	17 44.00	-0.2
			Sg	17 53.80	
LRG	0.93	214	Pg	17 47.50	0.0
			Sg	17 59.30	
LMR	0.99	205	Pg	17 48.30	-0.1
			Sg	18 01.00	
CDR	1.10	240	e(Pg)c	17 50.50	0.2
			e(Sg)	18 04.40	
LPG	1.29	350	Pg	17 53.90	0.1
LPL	1.31	349	Pg	17 54.20	0.2
			Sg	18 11.40	
PGF	2.19	140	Pn	18 05.60	-1.1
			Sn	18 31.40	

S.D. = 0.4 on 15 of 15 obs.

MAR 11, 1991 17h 00m 57.63± 0.40s
60.835 N ± 8.2km 166.771 E ± 6.4km
DEPTH = 33.0km (normal)
4.8mb (28 obs.)
EASTERN SIBERIA (671)

```
KLY     5.48 217 eP    02 19.70   0.7
ILT     9.45  35 iPc   03 13.50  -0.9
       1.0s    22.00nm          5.3mb
     Z 10s     3.60um
                i      03 20.00
                i      03 35.00
                eS     04 37.00
                e      06 00.00
TTA    17.51  67 eP    05 02.80   2.3
BRW    17.78  39 eP    05 07.50   3.8X
IMA    18.19  56 eP    05 09.40   0.5
       1.3s    14.10nm          4.0mb
FBA    20.75  59 eP    05 37.00  -0.6
TOA    22.13  66 eP    05 51.90   0.3
INK    25.69  48 eP    06 26.00   0.3
MBC    28.47  29 eP    06 52.50   1.5
CN2    29.81 254 eP    07 03.40   0.1
       1.0s    10.00nm          4.5mb
     Z 16s     1.20um           4.6MszX
               epP     07 12.00  30kmX
MAT    30.31 230 eP    07 08.00   0.1
YKA    35.21  52 eP    07 48.70  -1.5
       0.7s     1.70nm          4.1mb
BJI    37.12 259 eP    08 07.50   1.0
       1.5s    39.00nm          5.0mb
     Z 16s     0.29um           4.2MszX
TIY    40.75 261 eP    08 37.60   0.8
     Z 15s     0.60um           4.6MszX
     N 15s     0.70um
FFC    45.26  55 eP    09 12.00  -1.1
       1.7s    47.00nm          5.1mb
GTA    45.59 274 Pc    09 16.60   0.5
       1.2s    10.00nm          4.6mb
     Z 16s     0.60um           4.6MszX
LZH    46.23 267 iPc   09 21.50   0.3
       1.5s    31.00nm          5.0mb
     Z 14s     0.40um           4.5MszX
     E 15s     0.40um
WMO    48.03 287 eP    09 37.00   1.7
KMI    55.77 260 Pc    10 33.00  -0.6
NB2    57.01 346 P     10 40.90  -1.0
       0.9s    13.20nm          5.0mb
SCH    57.14  34 eP    10 41.00  -1.9
HFS    57.58 344 eP    10 43.70  -2.1
       0.9s     8.10nm          4.8mb
GUN    61.67 277 P     11 14.08  -0.8
KKN    62.06 277 P     11 16.80  -0.5
PKI    62.18 277 P     11 17.14  -1.1
GKN    62.20 278 P     11 16.40  -1.7
DMN    62.30 277 P     11 19.12   0.2
CHG    62.96 260 ePc   11 13.00 -10.1X
EKA    63.90 354 P     11 29.00   0.2
       1.2s    15.60nm          5.0mb
CLL    66.24 342 ePc   11 46.00   2.1
SPC    67.05 337 eP    11 51.90   2.5
MOX    67.09 343 eP    11 49.00  -0.3
KHC    68.27 341 eP    12 00.00   3.2X
ZST    68.59 339 eP    12 00.22   1.5
CDF    69.85 346 eP    12 06.30  -0.3
FLN    70.27 351 eP    12 08.20  -0.8
       0.8s     8.05nm          4.8mb
     Z 20s     0.10um           4.1Msz
FEL    70.29 345 eP    12 11.31   2.0
KBA    70.31 341 e(P)  12 09.00  -0.5
       1.3s    13.80nm          4.9mb
                i      12 13.50
HAU    70.36 346 eP    12 09.10  -0.5
       0.8s     5.35nm          4.7mb
     Z 20s     0.08um           3.9Msz
LDF    70.41 351 eP    12 09.20  -0.6
       0.7s     5.50nm          4.7mb
BSF    70.48 346 eP    12 09.90  -0.5
       0.8s     5.35nm          4.7mb
GRR    70.67 351 eP    12 11.10  -0.3
       0.9s    16.10nm          5.1mb
LPF    71.04 351 eP    12 13.50  -0.1
       0.7s     6.60nm          4.8mb
LOR    71.37 348 iPc   12 15.30  -0.4
       0.6s     4.50nm          4.7mb
     Z 20s     0.08um           4.0Msz
SSF    71.61 348 eP    12 16.90  -0.2
       0.6s     2.70nm          4.4mb
LBF    71.63 348 eP    12 17.30   0.0
AVF    71.89 348 eP    12 18.60  -0.2
       1.1s    17.10nm          5.0mb
SMF    71.98 348 eP    12 19.00  -0.4
TCF    72.50 349 eP    12 22.50   0.1
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       0.6s     2.70nm          4.4mb
MAF    72.53 349 eP    12 22.60   0.0
LPL    72.77 345 eP    12 24.80   0.5
       0.7s     3.30nm          4.4mb
LPG    72.79 345 eP    12 25.10   0.6
CAF    73.86 349 eP    12 31.00   0.6
       1.1s    18.80nm          5.0mb
LFF    73.97 350 eP    12 31.50   0.6
HYB    74.10 277 eP    12 31.50  -0.6
LPO    74.19 349 eP    12 32.70   0.5
       0.7s     6.60nm          4.7mb
GBA    77.92 276 Pc    12 52.20  -1.4
       1.2s     8.50nm          4.7mb
WB2    84.64 210 eP    13 28.70   0.0
       0.5s     2.00nm          4.6mb
WRA    84.64 210 P     13 28.00  -0.7
       0.9s     1.80nm          4.3mb
     S.D. = 1.0  on  56 of  59 obs.
-----------------------------------------
?  MAR  11, 1991  17h 51m 21.20± 2.41s
   47.374 N ±46.3km  153.818 E ±30.8km
   DEPTH =  33.0km  (normal)
   4.5mb (  4 obs.)
 KURIL ISLANDS                    (221)

ILT    24.89  25 eP    56 42.00   0.1
FBA    35.37  39 P     58 15.00  -0.3
GUN    55.43 275 P     00 55.30   0.2
KKN    55.91 275 P     00 58.34  -0.1
PKI    55.96 275 P     00 58.54  -0.4
DMN    56.14 275 P     01 00.22   0.1
       0.9s    18.00nm          5.1mb
GKN    56.21 276 P     01 00.44  -0.1
NB2    67.79 341 P     02 17.20  -0.3
       1.0s     4.20nm          4.5mb
HFS    68.04 340 eP    02 17.90  -1.0
       0.7s     2.70nm          4.5mb
CLL    76.09 336 e(P)  03 07.00   0.2
KBA    79.80 334 e(P)  03 29.00   1.5
       1.2s     7.10nm          4.5mb
                i      03 30.70
     S.D. = 0.7  on  11 of  11 obs.
-----------------------------------------
?  MAR  11, 1991  18h 32m 08.78± 3.21s
   59.372 N ±38.1km  153.434 W ±17.6km
   DEPTH = 116.4 ± 19.3 km
   3.2mb (  1 obs.)
 SOUTHERN ALASKA                  (  2)

PDB     0.57 318 iPd    32 27.10   0.1
TTA     3.78 342 eP     33 06.00  -0.3
VZW     3.83  61 eP     33 08.00   1.2
                eS     33 50.81
KLU     4.29  57 eP     33 13.20   0.1
                eS     34 01.21
BALM    5.78  68 eP     33 32.00  -1.5
                eS     34 36.42
YKA    18.92  64 eP     36 23.00   0.4
       0.5s     0.70nm          3.2mb
     S.D. = 1.4  on   6 of   6 obs.
-----------------------------------------
   MAR  11, 1991  18h 33m 43.12± 0.18s
   37.009 N ± 2.1km   30.989 E ± 1.9km
   DEPTH = 112.8 ±  2.1 km
   5.1mb ( 90 obs.)
 TURKEY                           (366)
      MD 4.9 (HLW). Felt at Afyon,
      Antolyo, Burdur and Isporto.
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 17S, 26C
      Centroid Location:
      Origin Time          18:33:47.3 1.5
      Lat 36.75N 0.12 Lon  30.73E 0.11
      Dep 122.6 4.2 Half-duration  1.5
      Moment Tensor;   Scale 10**16 Nm
        Mrr= 4.89 0.44  Mtt=-5.19 0.79
        Mff= 0.30 0.76  Mrt=-2.29 0.55
        Mrf=-1.46 0.44  Mtf= 2.12 0.74
       Principal Axes:
        T  Val=  6.03  Plg=66  Azm=127
        N         0.16      22      282
        P        -6.19       9       16
      Best Double Couple:Mo=6.1*10**16
       NP1:Strike=131 Dip=41 Slip= 125
       NP2:       268     58       64
```

```
BCK    0.55 325 iPg    34 00.40  -0.6
ELL    0.90 254 iPn    34 05.00   1.0
KHL    1.75 319 iPn    34 12.40  -1.3
ALT    2.16 342 iPn    34 17.90  -0.9
YER    2.17 274 iPn    34 18.30  -0.7
CIN    2.39 285 iPnc   34 22.00   0.3
PPCY   2.39 152 ePn    34 22.00   0.3
                eSn    34 51.50
CSS    2.79 136 eP     34 26.30  -0.8
                eSn    35 00.20
BBTK   3.15  26 iPd    34 32.00  -0.1
DST    3.19 325 iPn    34 32.20  -0.3
IZM    3.26 296 iPn    34 32.80  -0.7
GPA    3.32 351 iPn    34 33.80  -0.4
IZI    3.53 341 iPn    34 37.00  -0.1
YLV    3.77 341 iPn    34 39.70  -0.7
KCT    3.84 328 ePn    34 42.90   1.7
HRT    3.94 345 iPn    34 41.50  -1.2
GBZT   3.96 343 iPd    34 43.00   0.1
BNT    4.12 325 iPn    34 44.50  -0.5
EDC    4.13 325 iPn    34 44.00  -1.3
ISK    4.32 340 ePn    34 48.00   0.2
PRK    4.34 302 ePn    34 47.20  -0.9
ITU    4.37 340 iPnd   34 48.00  -0.5
                iSg    35 36.00
CTT    4.59 335 iPn    34 51.00  -0.5
EZN    4.62 309 iPn    34 51.80  -0.1
NPS    4.69 250 ePn    34 51.60  -1.3
KAS    4.86  25 iPd    34 55.10  -0.2
BHL    4.91 128 Pn     34 54.00  -2.0
                Sn     35 48.00
GAZ    4.98  86 ePn    34 56.30  -0.5
DMK    5.42 333 iPn    35 01.70  -1.1
ATZ    5.46 139 iPd    35 03.20  -0.3
                eS     36 01.10
ALN    5.47 317 iP     35 03.84   0.3
KVT    5.66  43 iPn    35 07.10   0.9
SHMJ   5.80 136 Pc     35 09.01   0.8
ZNT    5.81 144 eP     35 06.90  -1.4
                eS     36 08.50
MML    5.84 140 iPd    35 08.30  -0.4
ATH    5.86 282 ePn    35 10.00   1.0
RDO    5.92 316 ePn    35 09.50  -0.3
DHLJ   6.19 185 Pc     35 26.88  13.4X
BURJ   6.19 139 Pc     35 13.77   0.1
JVI    6.22 143 iPd    35 13.00  -0.9
JARJ   6.27 138 Pc     35 15.53   0.8
SALJ   6.32 141 Pd     35 15.78   0.5
KDZ    6.33 319 iPd    35 16.00   0.5
                iS     36 23.00
JMB    6.42 329 iPd    35 17.00   0.4
KFNJ   6.43 142 Pc     35 17.57   0.8
PAIG   6.43 299 eP     35 17.64   0.8
VLI    6.46 270 ePn    35 16.00  -1.2
MASJ   6.56 142 Pd     35 19.12   0.5
DIM    6.57 322 P      35 17.00  -1.6
                eSg    36 19.00
MKRJ   6.67 143 Pc     35 20.35   0.3
LISJ   6.85 146 Pd     35 22.88   0.4
MDSJ   6.91 139 Pc     35 23.69   0.3
PSN    7.00 343 iPd    35 24.00  -0.5
PLD    7.03 318 iPd    35 25.00   0.0
QTRJ   7.05 142 Pd     35 25.61   0.3
KOT    7.10 174 ePn    35 23.80  -2.0
                eSn    36 23.00
HLW    7.14 178 eP     35 25.20  -1.2
                eS     36 24.00
RMN    7.17 154 iPd    35 25.10  -1.8
THE    7.23 302 eP     35 28.84   1.1
MMB    7.25 311 eP     35 28.00   0.0
                Sg     37 04 00
LIT    7.34 297 eP     35 30 48   1.3
PRNI   7.44 152 iPd    35 29.00  -1.5
KNT    7.53 306 eP     35 32.74   0.9
PVL    7.56 327 iPd    35 32.00  -0.2
                S      35 54.00
SHWJ   7.60 149 Pd     35 32.34  -0.6
PGB    7.63 319 iPd    35 33.00  -0.1
GRG    7.76 303 eP     35 36.44   1.5
VAY    7.83 306 iP     35 37.70   1.9
MBH    7.92 155 iPd    35 35.50  -1.6
NAQJ   7.94 150 Pc     35 36.47  -0.9
VTS    8.18 315 iPd    35 42.00   1.3
BUC1   8.24 334 ePd    35 36.00  -5.3X
HSHJ   8.27 150 Pd     35 42.70   0.8
BUC    8.28 335 P      35 40.00  -1.8
HITJ   8.30 149 P      35 42.42   0.0
```

11d 18h

VLS	8.34	281	ePn	35	44.50	1.7			0.8s	90.60nm		5.1mb		LOMF	20.59	308	P	38	13.90	-1.0
HOL	8.43	155	ePc	35	43.70	-0.3				i	37	47.70		GRN	20.66	301	P	38	15.48	-0.1
IGT	8.75	290	eP	35	53.76	5.4X	WATA	17.66	312	iPc	37	43.80	0.4	WLS	20.68	311	P	38	15.84	0.0
SKO	8.89	307	iP	35	52.00	1.8		0.9s	112.00nm			5.1mb		ECH	20.72	310	P	38	15.99	-0.2
OHR	8.92	300	iPc	35	53.50	2.8				i	37	46.10		CDF	20.73	311	P	38	16.23	-0.1
	1.3s	104.00nm			5.4mb					i	37	49.30		GWF	20.77	313	P	38	16.09	-0.5
			i	36	21.20		PGF	17.77	295	eP	37	44.50	-0.2	BSF	20.80	309	P	38	16.39	-0.6
BADA	9.11	157	ePc	35	51.50	-1.6		0.8s	8.05nm			4.0mb	X	TNS	20.89	316	ePc	38	17.10	-0.8
AYN	9.14	151	eP	35	53.20	-0.4	OGA	17.78	310	eP	37	45.50	0.6	HAU	21.14	309	iPc	38	20.00	-0.3
KEK	9.19	290	eP	35	59.00	4.7X		0.8s	42.00nm			4.7mb			0.5s	33.55nm			5.0mb	
DRA	9.20	328	ePd	35	55.00	0.7	SOTA	17.83	311	iPc	37	45.90	0.5	Z	21s	0.13um			3.3Msz	
MLR	9.28	337	ePc	35	56.50	0.9				i	37	49.40		VITF	21.45	309	P	38	23.00	-0.3
MTUR	9.34	333	eP	35	51.00	-5.4X				i	37	52.10		KMTA	21.48	148	ePc	38	29.70	5.5X
CMP	9.39	333	iPd	35	56.00	-0.9	WET	17.89	318	iPc	37	46.00	-0.1	SSB	21.49	301	P	38	24.29	0.4
VRI	9.41	341	ePd	35	56.00	-1.2		0.9s	111.00nm			5.1mb		WLF	21.93	313	iPd	38	28.19	0.1
CVO	9.52	339	iPd	35	59.50	0.9	MOTA	17.95	311	iPc	37	46.60	-0.3	BNS	21.97	317	ePc	38	28.80	0.4
TNR	10.00	332	ePc	36	06.00	0.9		0.6s	48.20nm			4.9mb			0.9s	291.00nm			5.6mb	
IAS	10.49	347	eP	36	12.00	0.5				i	37	49.30		ESEL	22.16	286	eP	38	32.20	1.8
LCI	10.72	292	P	36	16.30	1.7				i	37	53.00		DHJN	22.20	147	ePc	38	36.70	5.3X
DEV	10.74	328	iPd	36	17.00	2.2	BOB	18.00	302	P	37	47.70	0.2	ETER	22.24	292	eP	38	32.00	0.8
BZS	11.11	324	ePc	36	18.50	-1.3	RYD	18.13	128	iPc	37	51.20	2.1	PLDF	22.28	302	P	38	31.52	-0.2
BEO	11.15	318	eP	36	19.50	-0.8	MDI	18.17	305	P	37	49.10	-0.2	SMF	22.31	304	eP	38	31.80	-0.1
ORI	11.79	289	P	36	28.30	-0.5	OSS	18.25	309	ePc	37	51.20	0.8	LBL	22.37	300	P	38	33.30	0.9
WAJH	11.80	155	eP	36	29.70	0.8	FUR	18.25	314	iPd	37	50.40	0.1	MEM	22.44	315	Pc	38	33.50	0.4
TDS	11.81	287	P	36	31.10	2.1		0.9s	170.00nm			5.3mb		LOR	22.47	306	iPc	38	33.60	0.1
SOI	11.91	280	P	36	30.30	0.0	BRG	18.45	324	iPc	37	52.20	-0.3	Z	21s	0.17um			3.5Msz	
TAB	12.22	80	eP	36	38.00	3.4X		1.2s	75.00nm			4.9mb		COP	22.52	332	iPc	38	35.50	1.8
MGR	12.48	289	P	36	38.30	0.5				i	38	12.00			0.8s	35.82nm			4.8mb	
SGO	12.74	291	P	36	40.80	-0.4				i	38	25.50		ENN	22.56	315	ePc	38	34.50	0.3
MNO	12.98	279	P	36	43.80	-0.8	PCP	18.55	301	P	37	51.35	-2.4		1.0s	69.00nm			5.0mb	
UZD	13.30	320	e(P)	36	52.00	3.5X	VDL	18.59	307	ePc	37	55.30	1.0			e		38	42.00	
GIB	13.51	279	P	36	56.50	5.2X	FIN	18.70	300	P	37	51.76	-3.5X			e		42	25.00	
DUI	13.61	295	P	36	54.50	1.9	VAI	18.82	305	P	37	55.80	-0.6	SSF	22.64	305	iPc	38	35.40	0.3
PSZ	13.62	327	iP	36	59.10	6.4X	IMI	18.85	299	P	37	54.73	-2.2	PYM	22.65	301	P	38	35.46	0.2
FAI	13.82	276	P	37	02.30	7.1X	ROB	18.95	300	P	37	54.22	-3.8X	AVF	22.67	304	eP	38	35.20	-0.1
MCT	13.83	278	P	37	03.00	7.4X	SAX	18.98	309	ePc	37	57.80	-0.7	WTS	22.69	319	iPc	38	36.20	0.7
SDI	14.09	295	P	37	01.00	2.2	LLS	19.04	308	ePc	37	58.50	-0.6		1.0s	140.00nm			5.3mb	
SRO	14.27	323	eP	37	03.50	2.6	GRF	19.09	318	iPc	37	58.30	-1.1	BGF	22 95	303	iPc	38	38.10	0.1
			i	37	44.50			0.8s	108.00nm			5.2mb		DOU	23.03	313	P	38	38.90	0.1
AZI	14.43	296	P	37	05.70	2.7	Z	19s	0.40um							e		42	26.50	
SPC	14.46	331	eP	37	03.20	-0.4	HOF	19.11	320	iPc	37	59.30	-0.3	MAF	23.06	302	iPc	38	39.30	0.2
CVT	14.50	278	P	37	09.00	5.1X	SBF	19.16	298	eP	37	58.40	-1.8		0.9s	45.85nm			4.8mb	
VBY	14.54	311	eP	37	10.80	6.3X		0.8s	37.60nm			4.8mb		CAF	23.14	299	iPc	38	40.40	0.4
ERC	14.64	280	P	37	09.20	3.3X	CLL	19.18	324	iPc	37	59.80	-0.5		1.1s	26.85nm			4.5mb	
AOI	14.78	302	eP	37	07.17	-0.4		1.4s	88.00nm			4.9mb		WIT	23.21	321	eP	38	42.00	1.6
CIO	14.98	300	eP	37	08.75	-1.4				PcP	42	18.00		TCF	23.31	302	iPc	38	41.90	0.3
RIY	15.00	309	eP	37	13.50	3.2X				ScP	45	44.00			0.8s	38.95nm			4.8mb	
MNS	15.07	297	P	37	12.20	0.9	ENR	19.25	299	P	37	59.55	-1.6	SNF	23.39	314	Pd	38	43.00	0.8
ZST	15.12	322	iP	37	15.40	3.6X	ORO	19.26	304	P	37	59.90	-1.4	UCC	23.46	314	P	38	43.40	0.4
CEY	15.17	310	eP	37	15.90	3.5X	ORX	19.26	304	P	37	59.45	-1.8	RJF	23.59	300	iPc	38	44.90	0.6
ARV	15.21	301	P	37	13.60	0.6	STV	19.32	299	P	38	01.19	-0.7		0.8s	67.15nm			5.1mb	
LJU	15.25	311	eP	37	17.00	3.5X	MMK	19.41	305	ePc	38	01.60	-1.4	Z	20s	0.08um			3.2Msz	
ASS	15.28	299	P	37	15.40	1.6	DOI	19.44	300	P	38	01.10	-2.1	LPO	23.72	298	iPc	38	46.10	0.6
KRA	15.28	332	eP	37	13.50	-0.3	MOX	19.44	321	iPc	38	03.00	0.0		0.8s	28.20nm			4.7mb	
	1.0s	37.00nm			4.6mb			1.0s	220.00nm			5.5mb		LSF	23.76	302	iPc	38	45.80	-0.2
			e	37	15.00		BHB	19.51	301	P	38	00.48	-3.4X		1.0s	50.00nm			4.9mb	
			i	37	22.40		PZZ	19.54	300	P	38	01.60	-2.7	NUR	23.86	352	iP	38	47.00	0.2
TRI	15.56	309	eP	37	19.60	2.3	RSP	19.60	302	P	38	01.50	-3.4X		1.0s	110.00nm			5.3mb	
VKA	15.56	321	eP	37	18.00	0.7	FRF	19.65	297	eP	38	03.70	-1.6			e		43	04.00	
	2.5s	317.00nm			5.1mb			1.1s	39.05nm			4.7mb		EBR	23.97	289	eP	38	49.00	1.0
			i	37	20.50		ZLA	19.67	309	ePc	38	04.50	-0.9	EROQ	24.03	289	iPd	38	49.10	0.5
			i	37	59.30		LMR	19.71	296	eP	38	04.70	-1.1	LFF	24.07	299	iPc	38	49.30	0.4
VOY	15.63	311	eP	37	16.10	-2.2		1.1s	19.55nm			4.4mb			0.7s	45.20nm			5.0mb	
			i	37	21.00		SLE	19.72	310	ePc	38	04.70	-1.3	EPF	24.15	294	iPc	38	49.20	-0.6
CRE	15.94	300	P	37	24.90	2.7	BBU	19.73	118	iP	38	07.20	1.1		0.9s	8.20nm			4.2mb	
FIR	16.46	300	eP	37	30.00	1.5		0.5s	168.00nm			5.6mb		MUD	24.35	330	iPd	38	52.30	0.9
KBA	16.49	313	iPc	37	30.40	1.4	SURF	19.73	300	P	38	04.13	-2.2		1.3s	111.00nm			5.2mb	
	1.1s	42.00nm			4.6mb		LSD	19.76	303	P	38	04.06	-2.6			e		39	11.00	
			i	37	31.60		FOUF	19.77	300	iPd	38	05.35	-1.0	UPP	24.43	344	iPc	38	52.90	0.7
			i	37	35.40					i	38	10.30		BTH	24.55	294	P	38	53.50	0.0
			i	38	18.70		DIX	19.78	305	ePc	38	06.60	-0.3	ACU	24.81	283	iPc	38	56.60	0.5
VVI	16.52	309	P	37	31.30	2.1	LRG	19.84	297	eP	38	05.80	-1.3	MFF	24.97	302	iPc	38	56.70	-0.7
FVI	16.58	311	P	37	31.90	2.0		1.1s	34.20nm			4.6mb			0.7s	55.10nm			5.1mb	
MME	16.97	301	P	37	36.30	1.2	BRL	19.84	327	eP	38	07.00	-0.1	KAF	25.30	355	iP	38	59.90	-0.4
CTI	17.03	308	P	37	36.90	1.2	BRN	19.84	327	eP	38	07.00	-0.1		0.6s	22.30nm			4.8mb	
BHG	17.09	314	iPc	37	37.40	1.1	RRL	19.86	301	P	38	06.32	-1.4	LDF	25.42	307	iPc	38	59.90	-1.6
KSP	17.37	327	eP	37	40.00	0.4	BEE	19.90	118	iP	38	09.00	1.2		0.5s	30.60nm			5.1mb	
			e	37	59.00			0.4s	55.00nm			5.3mb		HFS	25.66	340	eP	39	02.70	-0.9
KHC	17.52	319	iPc	37	42.00	0.5	BNI	19.97	301	P	38	08.50	-0.2		0.8s	48.00nm			5.1mb	
	1.0s	32.00nm			4.5mb		LPG	20.04	303	iPc	38	09.00	-0.6	Z	17s	0.14um			3.6MszX	
			e	38	02.70			0.7s	120.60nm			5.4mb				LR		48	41.00	
			e	41	10.00		FEL	20.06	310	eP	38	08.44	-1.1	FLN	25.69	307	iPc	39	02.30	-1.7
PRU	17.57	323	eP	37	42.00	-0.1	LPL	20.06	303	iPc	38	09.20	-0.5		0.5s	36.45nm			5.2mb	
	1.5s	44.60nm			4.5mb		EMS	20.09	304	ePc	38	09.20	-0.8	Z	22s	0.15um			3.5Msz	
			e	37	43.00		CDR	20.30	297	ePc	38	11.70	-0.2	GRR	25.84	306	iPc	39	03.80	-1.6
			e	37	54.00					i	38	14.70			0.5s	49.55nm			5.3mb	
WTTA	17.59	312	iPc	37	43.30	0.7	MOF	20.59	309	P	38	14.14	-0.8	LPF	25.87	305	iPc	39	04.00	-1.7

	0.5s	40.80nm		5.2mb		
ETOR	25.90	289 iPd	39 06.00	-0.2		
ECRI	26.22	293 iPd	39 09.10	0.0		
EVIA	26.43	284 iPc	39 11.40	0.4		
ENIJ	26.45	280 iPd	39 11.10	-0.1		
NB2	27 10	339 P	39 15.40	-1.5		
	0.6s	28.70nm		5.0mb		
AFC	27.45	281 iPd	39 19.70	-0.6		
ECOG	27.46	281 iPc	39 19.90	-0.5		
TOL	27.49	287 iPc	39 20.50	0.0		
	0.9s	67.23nm		5.2mb		
		eS	44 45.00			
EBAN	27.49	283 iPc	39 20.50	-0.1		
GUD	27.51	288 iPc	39 20.50	-0.3		
MAL	28.23	280 iPd	39 27.00	-0.1		
EHOR	28.68	283 iPd	39 30.50	-0.8		
AAE	28.73	164 eP	39 35.50	3.3X		
LIJA	28.98	281 eP	39 32.00	-2.1		
EPLA	29.02	288 iPd	39 33.90	-0.5		
ESY	29.46	321 iPd	39 37.80	-0.2		
EKA	29.49	319 Pd	39 37.20	-1.1		
	1.1s	53.30nm		5.1mb		
IFR	29.58	274 iPc	39 41.00	1.4		
EBL	29.62	320 iPd	39 39.50	0.1		
	1.0s	60.00nm		5.2mb		
EDI	29.75	320 iPd	39 40.90	0.3		
EAU	29.86	320 iPd	39 41.70	0.2		
	1.0s	57.00nm		5.2mb		
EVAL	29.89	283 iPc	39 41.50	-0.5		
EDU	29.94	322 iPd	39 42.10	-0.1		
	0.5s	98.00nm		5.8mb		
EBH	30.06	321 iPd	39 43.40	0.1		
	0.5s	81.00nm		5.7mb		
ELO	30.25	321 iPd	39 44.70	-0.3		
	0.7s	42.00nm		5.3mb		
EAB	30.45	320 iPd	39 46.80	0.1		
	0.7s	52.00nm		5.4mb		
SOD	30.51	357 iP	39 46.70	-0.4		
QUE	30.59	92 iPd	39 50.00	1.6		
	1.0s	37.00nm		5.1mb		
		eS	44 44.30			
AVE	31.47	275 iPc	39 56.50	0.5		
		i	40 33.00			
TIO	32.14	271 iPc	40 03.00	1.0		
KEV	32.88	357 eP	40 07.00	-0.7		
BCAO	34.37	202 iPc	40 22.90	1.7		
	0.6s	120.00nm		5.9mb		
		i	42 55.20			
		i	45 41.00			
POO	41.75	104 iPd	41 24.70	2.0		
KUK	41.94	231 eP	41 24.80	0.5		
SHGH	41.94	230 eP	41 25.00	0.7		
LEGH	42.25	230 eP	41 27.50	0.7		
WMQ	42.98	63 P	41 34.00	1.4		
		S	47 53.00			
TIC	44.59	236 P	41 46.00	0.2		
KIC	44 62	236 Pc	41 46.42	0.5		
	0.7s	60.50nm		5.5mb		
LIC	44.91	236 P	41 48.64	0.4		
DAG	45.38	346 iPd	41 50.30	-1.0		
	0.8s	11.19nm		4.7mb		
GKN	45.61	85 P	41 54.58	0.7		
	0.6s	482.00nm		6.4mb X		
HYB	46.05	102 iPc	41 58.20	0.9		
	1.0s	115.00nm		5.6mb		
DMN	46.16	85 P	41 59.22	0.9		
	0.6s	632.00nm		6.6mb X		
KKN	46.22	85 P	41 59.24	0.5		
	0.4s	225.00nm		6.2mb X		
PKI	46.42	85 P	42 01.00	0.5		
GUN	46.65	85 P	42 02.82	0.5		
	0.4s	165.00nm		6.1mb		
GBA	47.44	107 P	42 09.00	0.8		
KOD	49.58	110 eP	42 26.90	1.8		
LSA	50.06	80 P	42 30.00	1.2		
GTA	52.92	65 iPc	42 49.80	0.1		
	1.2s	30.00nm		5.1mb		
BUL	56.89	183 iPd	43 20.90	2.4		
	0.5s	31.69nm		5.6mb		
LZH	57.14	67 Pc	43 20.00	-0.3		
	1.5s	51.00nm		5.3mb		
Z	40s	0.37um		4.2MszX		
		pP	43 44.00	97kmX		
		sP	43 59.00			
CD2	59.33	73 eP	43 35.60	0.1		
BTO	59.70	60 eP	43 38.00	0.0		
HHC	60.66	59 iPd	43 45.40	0.9		

	1.0s	100.00nm		5.8mb		
KMI	61.30	79 Pd	43 49.00	-0.2		
	2.0s	43.00nm		5.1mb		
CHG	61.53	87 ePc	43 50.30	-0.3		
	0.9s	48.95nm		5.5mb		
XAN	61.78	67 Pc	43 51.50	-0.5		
BFT	62.37	181 iPc	43 59.00	3.0X		
	0.8s	93.28nm		5.8mb		
BDT	62.42	89 eP	43 53.00	-3.4X		
	0.6s	60.70nm		5.7mb		
SLR	62.46	183 iPc	43 56.00	-0.6		
	0.9s	71.43nm		5.6mb		
TIY	62.64	62 Pd	43 57.60	-0.2		
KHT	63.45	91 iPc	44 03.10	-0.2		
GYA	63.69	76 P	44 04.00	-0.9		
BJI	64.17	58 eP	44 08.00	0.4		
	1.0s	80.00nm		5.6mb		
		sP	44 45.00			
		eS	52 30.00			
NST	64.19	89 iPc	44 10.00	1.9		
LOE	64.51	87 eP	44 09.00	-1.2		
SCH	64.78	321 ePc	44 09.80	-1.6		
	0.5s	32.00nm		5.5mb		
MBC	65.45	353 eP	44 15.00	-0.4		
	1.0s	7.00nm		4.5mb		
NNT	65.60	92 iPc	44 17.10	0.0		
FRS	66.62	185 iPc	44 23.50	0.3		
	1.0s	195.00nm		6.0mb		
TIA	66.66	61 eP	44 23.00	-0.7		
WHN	67.49	68 ePd	44 30.00	1.1		
SNY	68.21	54 Pd	44 32.50	-0.8		
	0.8s	40.00nm		5.4mb		
CN2	68.39	51 iPc	44 33.80	-0.6		
	0.8s	20.00nm		5.0mb		
		epP	44 58.00	94kmX		
		eS	53 18.00			
SNG	69.46	97 eP	44 40.50	-0.8		
CBM	69.54	314 P	44 40.50	-0.8		
NJ2	70.01	65 Pd	44 44.60	0.2		
QIZ	70.08	81 Pc	44 45.30	0.2		
MDJ	70.49	49 eP	44 46.50	-0.7		
IPM	71.34	99 ePc	44 52.40	-0.3		
BRW	71.85	3 eP	44 55.30	0.5		
SSE	72.20	64 Pc	44 57.30	-0.3		
	1.0s	25.00nm		5.0mb		
ILT	73.04	11 iP	45 01.80	-0.1		
	1.2s	21.00nm		4.8mb		
		i	45 40.00			
		e	45 50.30			
INK	74.36	354 eP	45 09.00	-0.5		
GAC	74.42	316 ePc	45 10.50	0.3		
	0.5s	21.00nm		5.2mb		
RSNY	74.58	314 P	45 10.80	-0.4		
	1.0s	27.11nm		5.0mb		
YKA	77.05	344 eP	45 24.20	-0.5		
	0.9s	14.60nm		4.8mb		
IMA	77.19	2 eP	45 26.10	0.5		
	1.3s	28.80nm		4.9mb		
ANM	77.94	7 eP	45 29.90	0.3		
FBA	78.42	359 eP	45 32.70	0.5		
FFC	80.11	334 iPc	45 41.20	-0.3		
	0.6s	21.00nm		5.1mb		
MAT	80.53	51 eP	45 44.00	-0.1		
	1.3s	32.69nm		5.0mb		
YAMJ	80.62	49 P	45 45.10	0.6		
OFUJ	81.01	47 iPd	45 46.80	0.3		
SOB1	81.35	252 eP	45 50.60	2.0		
PMR	81.75	0 eP	45 50.50	0.6		
	0.9s	196.67nm		5.9mb		
SVW	82.08	3 eP	45 52.80	1.0		
BALM	82.15	357 P	45 53.00	0.8		
PPR	82.40	84 ePc	45 56.00	1.9		
SLKM	82.83	1 P	45 55.20	-0.4		
RSO	82.83	2 P	45 53.00	-2.9		
EDM	84.96	339 eP	46 07.00	0.4		
	0.8s	66.00nm		5.6mb		
SIT	85.58	353 eP	46 11.10	1.6		
RSCP	86.81	313 P	46 15.80	-0.2		
FVM	87.84	318 P	46 20.30	-0.6		
	0.6s	13.00nm		5.1mb		
RSSD	89.54	329 P	46 28.80	-0.3		
	0.7s	8.65nm		5.0mb		
NEW	90.47	339 P	46 33.00	-0.1		
	1.0s	27.50nm		5.4mb		
BAO	90.75	251 eP	46 37.50	2.7		
LRM	91.21	335 eP	46 36.90	0.0		
BMA	92.31	243 eP	46 44.90	3.1X		

BW06	92.84	332 P	46 43.30	-1.1		
	0.7s	4.39nm		4.9mb		
GOL	93.76	328 P	46 47.60	-1.1		
	0.5s	2.07nm		4.7mb		
WRA	112.16	99 iPKPd	52 05.80	-1.4		
	0.4s	3.30nm				
WB2	112.17	99 iPKPd	52 05.80	-1.4		
	0.4s	3.30nm				
ASPA	113.78	102 ePKP	52 09.60	-0.7		
STK	123.69	107 ePKP	52 48.50	19.6X		
	1.0s	4.40nm				
SPA	126.82	180 iPKPd	52 33.50	-0.6		
	1.0s	19.00nm				
KHZ	150.85	112 PKP	53 23.60	6.2X		
MNG	152.22	108 PKP	53 26.30	6.8X		
PGZ	152.82	108 PKP	53 28.20	7.9X		
	S.D. = 1.0	an 341 af 373 abs.				

% MAR 11, 1991 19h 01m 09.31± 1.08s
42.411 N ± 7.2km 19.819 E ± 7.5km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MD 2.0 (TTG).

PVY	0.22	32	iPgd	01 13.92	-0.1	
			iSg	01 17.87		
TTG	0.41	273	iPgd	01 17.09	-0.7	
			iSg	01 24.17		
IVA	0.46	7	iPgd	01 18.64	-0.1	
			iSg	01 25.92		
ULC	0.62	224	iPgd	01 21.70	0.0	
			iSg	01 32.72		
NKY	0.73	304	iPgd	01 23.44	-0.2	
			iSg	01 34.87		
BDV	0.75	260	iPgc	01 24.42	0.5	
			iSg	01 36.29		
PLE	0.97	341	iPgd	01 28.27	0.5	
HCY	0.98	273	iPgd	01 28.04	0.2	
			iSg	01 43.50		
BRY	1.06	298	iPgd	01 29.47	0.1	
			iSg	01 46.80		
	S.D. = 0.4		an 9 af 9 abs.			

? MAR 11, 1991 19h 02m 53.46± 1.26s
61.240 N ±26.3km 166.913 E ±28.5km
DEPTH = 33.0km (normal)
3.7mb (3 abs.)
EASTERN SIBERIA (671)

ILT	9.08	37	iP	05 04.00	-1.2	
			e	07 47.50		
			e	07 52.50		
INK	25.36	48	eP	08 20.00	1.5	
YKA	34.91	53	eP	09 43.20	-0.2	
	0.4s	0.20nm		3.4mb		
NB2	56.63	346	P	12 35.40	0.4	
	0.7s	1.10nm		4.0mb		
WRA	85.03	211	P	15 26.00	-0.5	
	1.1s	0.60nm		3.7mb		
	S.D. = 1.4		an 5 af 5 abs.			

MAR 11, 1991 19h 15m 08.74± 0.77s
41.734 N ± 6.6km 22.894 E ± 6.7km
DEPTH = 5.0km (geophysicist)
YUGOSLAVIA (383)
MD 2.8 (THE).

VAY	0.48	211	iPg	15 18.70	0.4	
			iSg	15 25.50		
KNT	0.57	180	ePd	15 19.60	-0.6	
			eS	15 26.52		
SRS	0.81	139	ePc	15 23.88	-1.0	
			eS	15 33.72		
GRG	0.86	206	ePc	15 25.20	-0.6	
			eS	15 37.32		
VTS	0.89	15	iPgd	15 25.00	-1.3	
			iSg	15 36.00		
SOH	0.98	159	iP	15 27.00	-0.8	
THE	1.10	177	iPd	15 29.68	-0.2	
SKO	1.11	283	ePn	15 28.50	-1.6	
			iSn	15 44.60		
FNA	1.49	231	iPd	15 37.58	1.4	
OHR	1.69	249	ePn	15 41.00	1.8	
KDZ	1.89	92	iP	15 42.00	0.0	
			iSg	16 01.00		
DIM	2.00	80	iP	15 46.00	2.5	
			Sg	16 14.00		

11d 19h

PVL 2.33 50 eP 15 42.00 -6.4X
Sg 16 18.00
S.D. = 1.4 on 12 of 13 obs.

& MAR 11, 1991 19h 15m 46.10s
36.530 N 121.138 W
DEPTH = 7.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.7 (BRK).

LLA	0.18	61	iPc	15 49.80	-0.1
PRS	0.27	223	iPc	15 51.60	-0.1
SAO	0.34	314	iPc	15 52.60	-0.4
PRI	0.54	135	eP	15 56.30	-0.8
			iS	16 07.30	
GCC	0.85	306	ePd	16 01.80	-1.0
ARN	0.88	339	eP	16 03.30	0.0
MHC	0.91	334	eP	16 04.20	0.4
			iS	16 18.10	
PKEM	0.95	119	eP	16 04.60	0.1
FRI	1.24	68	ePc	16 07.70	-1.7
PCC	1.39	315	eP	16 10.30	-1.5
BCH	1.59	147	eP	16 12.80	-2.1
CMB	1.62	22	eP	16 14.40	-0.8
			eS	16 36.20	
ABL	2.29	136	e(P)	16 23.00	-2.1
BONR	2.67	57	e(P)	16 33.00	2.4
KVN	3.48	43	eP	16 48.20	6.2
TNP	3.49	62	e(P)	16 49.50	7.4
16 obs. ossociated					

• MAR 11, 1991 19h 21m 15.50± 0.95s
41.737 N ± 7.5km 22.903 E ± 8.6km
DEPTH = 5.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.3 (SKO).

VAY	0.49	211	ePg	21 25.20	0.0
			iSg	21 32.00	
MMB	0.64	103	iPgd	21 28.00	-0.2
			Sg	21 36.00	
VTS	0.88	15	iPg	21 33.00	0.0
			iSg	21 43.00	
PGB	1.24	49	eP	21 39.00	-0.1
			Sg	21 53.00	
KDZ	1.88	92	iPgd	21 49.00	0.3
			iSg	22 14.00	
S.D. = 0.3 on 5 of 5 obs.					

MAR 11, 1991 19h 46m 48.03± 0.32s
60.490 N ± 7.0km 166.948 E ± 4.4km
DEPTH = 20.9km (3 depth phases)
4.9mb (43 obs.)
EASTERN SIBERIA (671)

PET	8.76	215	eP	49 00.00	3.6X
	0.9s		B0.00nm		6.0mb X
	Z 14s		3.00um		5.7MszX
ILT	9.69	34	eP	49 03.50	-5.7X
	1.2s		24.00nm		5.4mb
	Z 12s		3.20um		
	E 12s		2.00um		
			i	49 06.00	
			i	49 13.00	
			i	50 23.80	
			e	51 48.00	
ADK	12.51	126	e(P)	49 47.40	-0.1
ANM	13.35	60	e(P)	49 59.10	0.5
TTA	17.56	66	eP	50 54.10	1.2
SDN	17.92	92	e(P)	50 58.90	1.8
BRW	17.99	38	eP	50 58.10	0.1
SVW	18.12	72	eP	51 02.70	3.0X
IMA	18.31	55	eP	51 01.70	-0.4
	1.2s		38.20nm		4.4mb
RSO	19.65	72	e(P)	51 20.00	1.8
SLKM	20.82	71	e(P)	51 27.50	-2.8
FBA	20.85	58	eP	51 31.80	1.3
PMR	21.00	68	eP	51 34.60	2.6X
TOA	22.19	65	eP	51 43.50	-0.6
BALM	24.28	66	e(P)	52 01.90	-2.6
INK	25.86	47	eP	52 18.00	-1.2
MBC	28.73	29	eP	52 46.00	0.7
	1.3s		11.00nm		4.4mb
CN2	29.80	255	eP	52 55.60	0.3
	Z 16s		1.50um		4.7MszX
			epP	53 00.60	17km
MAT	30.16	230	iPc	52 59.50	1.0
	0.9s		21.85nm		5.0mb
YKA	35.36	52	eP	53 40.70	-2.7
	0.9s		6.40nm		4.5mb
BJI	37.15	260	eP	53 58.50	-0.2
	1.3s		14.00nm		4.6mb
TIY	40.78	261	eP	54 29.70	0.6
	Z 16s		0.70um		4.6MszX
	N 15s		0.60um		
PNT	41.47	71	eP	54 39.00	4.5X
	0.7s		10.00nm		4.7mb
EDM	41.63	63	eP	54 35.50	-0.3
DAG	42.94	2	iPc	54 45.90	-0.3
	1.0s		11.00nm		4.5mb
FFC	45.39	55	ePc	55 03.00	-3.2X
	1.7s		55.00nm		5.2mb
GTA	45.70	274	Pc	55 08.60	-0.4
	0.8s		10.00nm		4.8mb
			pP	55 15.00	21km
LZH	46.30	268	iPd	55 14.20	0.4
	2.0s		36.00nm		5.0mb
			pP	55 21.50	24km
WMQ	48.22	288	P	55 28.00	-0.8
SOD	49.18	341	eP	55 36.00	0.3
FRB	49.20	29	eP	55 33.00	-2.8
GYA	52.77	258	P	56 04.00	0.4
KAF	54.07	338	eP	56 09.00	-3.6X
	1.0s		7.90nm		4.7mb
NUR	55.86	339	eP	56 25.00	-0.6
NB2	57.36	346	P	56 32.60	-3.9X
	0.9s		19.80nm		5.1mb
SCH	57.38	34	eP	56 33.00	-3.7X
HFS	57.93	345	eP	56 35.20	-5.2X
	0.8s		9.60nm		4.9mb
GUN	61.80	277	P	57 06.28	-1.5
	0.9s		26.00nm		5.4mb
KKN	62.19	278	P	57 08.74	-1.6
PKI	62.31	277	P	57 10.56	-0.7
GKN	62.33	278	P	57 09.30	-1.8
	1.0s		22.00nm		5.2mb
DMN	62.43	278	P	57 10.44	-1.5
LOE	62.84	257	eP	57 14.00	-0.4
CHG	62.99	260	eP	57 14.90	-0.5
EKA	64.26	354	Pc	57 24.00	0.8
	0.8s		10.70nm		5.0mb
CLL	66.60	343	eP	57 37.00	-1.3
	1.4s		18.00nm		5.0mb
KRA	66.63	338	eP	57 39.60	1.1
WTS	66.74	347	eP	57 40.00	0.9
	1.0s		17.00nm		5.1mb
SPC	67.41	337	e(P)	57 42.80	-0.9
MOX	67.45	343	eP	57 44.00	0.3
			eSg	19 52.00	
PRU	67.64	341	eP	57 45.50	0.6
KHC	68.63	342	P	57 52.50	1.4
ZST	68.94	339	eP	57 54.20	1.2
CDF	70.21	346	eP	58 01.00	0.1
	0.9s		6.55nm		4.8mb
FLN	70.63	351	eP	58 03.00	-0.3
	1.1s		24.15nm		5.2mb
HAU	70.72	346	eP	58 04.00	0.1
	0.9s		6.55nm		4.8mb
	Z 22s		0.08um		3.9Msz
LDF	70.77	351	eP	58 04.00	-0.1
	0.9s		9.85nm		4.9mb
BSF	70.84	346	eP	58 04.50	-0.2
	0.9s		8.20nm		4.9mb
GRR	71.03	351	eP	58 05.80	0.1
	0.9s		16.40nm		5.2mb
LPF	71.40	352	eP	58 08.10	0.2
	0.9s		13.10nm		5.0mb
LOR	71.72	348	eP	58 09.80	-0.1
	1.0s		21.00nm		5.2mb
SSF	71.96	348	eP	58 11.40	0.0
	1.2s		16.35nm		5.0mb
LBF	71.99	348	eP	58 11.90	0.3
	1.2s		13.40nm		4.9mb
AVF	72.25	348	eP	58 13.20	0.2
	1.0s		20.00nm		5.1mb
SMF	72.34	348	eP	58 13.80	0.2
	1.0s		10.00nm		4.8mb
BGF	72.53	349	eP	58 14.80	0.1
TCF	72.86	349	eP	58 17.20	0.5
	1.1s		14.65nm		4.9mb
MAF	72.89	349	eP	58 17.30	0.5
	1.1s		9.75nm		4.8mb
LSF	72.96	349	eP	58 17.70	0.5
	1.1s		17.10nm		5.0mb
LPL	73.13	346	eP	58 19.30	0.8
	1.1s		9.75nm		4.8mb
LPG	73.14	346	eP	58 19.90	1.2
	1.1s		9.75nm		4.8mb
RJF	73.90	349	eP	58 23.50	0.8
	1.0s		8.00nm		4.7mb
CAF	74.22	349	eP	58 25.90	1.3
	1.0s		11.00nm		4.8mb
HYB	74.23	277	eP	58 24.00	-1.1
LFF	74.33	350	eP	58 26.00	0.8
	1.0s		16.00nm		5.0mb
LPO	74.54	350	eP	58 27.40	1.0
	1.0s		12.00nm		4.9mb
EPF	76.26	350	eP	58 36.80	0.5
	1.2s		11.90nm		4.8mb
WB2	84.39	211	iPc	59 20.90	1.3
	0.8s		10.10nm		5.1mb
WRA	84.39	211	iPc	59 20.90	1.3
	0.8s		10.10nm		5.1mb
S.D. = 1.1 on 69 of 79 obs.					

MAR 11, 1991 20h 20m 51.12± 0.46s
1.866 N ± 5.6km 125.792 E ±11.9km
DEPTH = 33.0km (normal)
4.8mb (3 obs.)
MOLUCCA PASSAGE (266)

CGP	6.64	351	iPd	22 29.00	0.1
MAP	8.59	348	ePc	22 55.50	-0.7
PPR	10.54	319	ePc	23 24.00	1.0
MTN	15.55	160	eP	24 30.00	0.4
WB2	23.24	159	iPc	25 57.40	0.8
	0.4s		81.00nm		5.6mb
			eS	30 06.30	
MBL	23.61	194	eP	25 59.30	-0.9
IPM	24.87	277	eP	26 12.50	0.1
QIS	26.07	149	eP	26 24.80	1.2
ASPA	26.58	163	iPd	26 28.80	0.5
			iPcP	30 01.50	
			eS	30 59.80	
WARB	27.90	178	eP	26 41.00	0.8
	0.6s		11.00nm		4.7mb
MEKA	29.17	193	iPd	26 50.70	-1.0
FORR	32.61	176	eP	27 21.70	-0.2
BAL	33.43	194	eP	27 28.00	-1.2
MUN	34.86	194	eP	27 40.70	-0.8
NWAO	35.54	192	eP	27 47.00	-0.2
MAT	36.36	17	eP	27 53.00	-1.2
HYB	48.89	292	eP	29 37.50	1.3
GBA	49.21	286	Pd	29 44.00	5.4X
	0.7s		2.50nm		4.4mb
S.D. = 0.9 on 17 of 18 obs.					

MAR 11, 1991 21h 09m 04.53± 0.63s
57.329 N ± 5.8km 9.512 E ± 8.8km
DEPTH = 10.0km (geophysicist)
DENMARK (542)
MD 3.3 (BER).

MUD	0.89	192	iPd	09 21.90	0.3
			i	09 22.80	
			iS	09 32.20	
			i	09 35.60	
COP	2.31	134	eP	09 42.80	-0.4
			i	09 51.00	
			iS	10 17.80	
KMY	2.94	312	eP	09 51.81	-0.3
			eSg	10 36.09	
ODD1	3.00	331	eP	09 54.00	1.0
			eSg	10 41.50	
HFS	3.56	36	eP	10 01.50	0.6
	0.3s		2.20nm		
NRA0	3.57	16	Pn	10 00.70	-0.4
			Sn	10 39.90	
HYA	4.21	337	eP	10 09.98	-0.1
SUE	4.47	329	eP	10 13.00	-0.7
			eS	11 02.00	
S.D. = 0.7 on 8 of 8 obs.					

MAR 11, 1991 21h 15m 56.42± 0.14s
51.154 S ± 4.4km 29.255 E ± 5.0km
DEPTH = 10.0km (geophysicist)
5.8mb (57 obs.) 6.3Msz (25 obs.)
SOUTH OF AFRICA (430)
Mo=6.0•10••18 Nm (PPT).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN

L.P.B.: 21S, 53C M.W.: 19S, 38C
Centroid Location:
Origin Time 21:16: 4.1 0.1
Lat 50.49S 0.01 Lon 29.37E 0.02
Dep 15.0 FIX Half-duration 5.9
Moment Tensor; Scale 10**18 Nm
Mrr=-0.10 0.04 Mtt= 3.62 0.05
Mff=-3.52 0.04 Mrt=-0.30 0.12
Mrf= 0.47 0.14 Mtf= 2.60 0.04
Principal Axes:
T Val= 4.48 Plg= 2 Azm=162
N -0.04 83 266
P -4.43 7 72
Best Double Couple:Mo=4.5*10**18
NP1:Strike=207 Dip=84 Slip=-176
NP2: 117 86 -6

CRZF 15.61 81 iPd 19 42.00 4.2X
e(S) 23 33.00
BLE 18.90 332 iPc 20 14.00 -5.2X
1.0s 560.00nm 5.7mb
CER 19.22 334 iPc 20 19.00 -4.1X
1.0s 1480.00nm 6.2mb
TUH 19.32 334 iPc 20 15.00 -9.3X
FRS 21.58 351 iPc 20 40.00 -8.1X
1.0s 315.00nm 5.7mb
MAW 23.30 148 iPd 21 09.00 4.3X
1.0s 693.00nm 6.2mb
SLR 25.39 358 ePc 21 18.42 -7.1X
1.0s 990.00nm 6.5mb
Z 17s 60.54um 6.2MszX
S 25 44.00
WIN 30.06 337 iPc 22 03.00 -5.1X
Z 17s 12.24um 5.6MszX
BUL 30.95 359 iPc 22 10.60 -5.2X
1.0s 410.00nm 6.3mb
SPA 39.03 180 iPc+ 23 25.80 1.1
1.0s 65.00nm 5.3mb
Z 20s 21.62um 6.0Msz
CSY 41.49 143 eP 23 58.20 13.6X
0.6s 271.00nm
e 25 39.70
AIA 46.51 215 eP 24 28.00 3.0X
SBA 48.64 169 P 24 40.10 -1.5
NAI 50.11 10 iPc 24 54.00 0.2
1.0s 128.00nm 5.8mb
iS 32 11.00
DRV 51.42 152 eP 25 12.00 9.0X
PP 28 12.00
S 32 30.00
SS 36 37.00
BCAO 56.13 347 iPc 25 34.00 -4.3X
0.9s 252.00nm 6.2mb
i 25 56.20
AAE 60.50 11 eP 26 09.50 0.4
TEGH 61.90 327 eP 26 16.00 -2.3
LEGH 61.97 326 eP 26 15.50 -3.3X
LPA 62.10 248 iPc- 26 21.80 2.3X
0.8s 525.37nm 6.8mb
Z 21s 14.34um 6.1Msz
eS 34 40.00
SHGH 62.18 327 eP 26 15.00 -5.2X
BMA 62.35 268 eP 26 19.60 -1.8
e 26 24.80
e 26 30.60
e 26 40.00
KOGH 62.40 326 eP 26 18.00 -3.7X
JFO 62.54 269 eP 26 19.40 -3.3X
e 26 23.50
e 26 32.40
KUK 62.54 326 eP 26 17.00 -5.6X
RKG 63.02 111 eP 26 23.50 -2.2
ARO 63.53 15 iP+ 26 29.00 -0.1
VAO 63.90 265 eP 26 30.60 -1.0
e 26 31.80
e 26 33.10
e 26 44.40
NWAO 63.97 111 eP 26 31.00 -0.9
0.6s 26.00nm 5.6mb
eS 35 12.00
MUN 64.03 109 eP 26 31.00 -1.3
LIC 64.30 322 P 26 29.90 -4.2X
1.3s 167.00nm 6.1mb
Z 20s 5.50um 5.7Msz
S 35 02.00
KIC 64.31 322 P 26 29.92 -4.3X
1.4s 229.00nm 6.2mb

TT 34 10.00
TIC 64.68 322 P 26 32.60 -4.0X
0.9s 150.50nm 6.2mb
KLB 65.23 110 eP 26 39.00 -1.1
BAL 65.31 109 eP 26 39.50 -1.2
PPD 67.33 263 eP 26 52.50 -1.1
TCA 68.54 247 ePd 26 58.80 -2.4
DHJN 69.64 14 ePc 27 09.30 1.1
BAO 70.00 270 ePd 27 09.00 -1.4
KMTA 70.05 14 ePc 27 12.10 1.5
PCH 70.19 241 eP 27 10.00 -1.3
SAN 70.40 241 eP 27 13.50 1.1
TACH 70.40 241 eP 27 10.20 -2.2
CFA 70.43 244 ePc 27 11.00 -1.7
SOB1 70.45 280 eP 27 10.10 -2.9
PEL 70.64 241 iPc 27 13.10 -0.9
0.9s 294.12nm 6.4mb
ZON 70.72 244 eP 27 12.00 -2.5
RTLL 70.76 244 ePd 27 13.30 -1.4
RTCB 70.83 244 ePc 27 14.10 -1.1
LCCH 70.88 240 eP 27 14.20 -1.1
JACH 70.94 242 eP 27 15.50 -0.3
ROCH 70.95 241 ePd 27 15.00 -1.1
FORR 71.76 117 eP 27 21.00 0.4
0.4s 17.00nm 5.5mb
TAU 71.99 137 eP 27 23.00 1.2
e 36 38.00
e 40 59.00
RTRS 72.20 244 ePc 27 23.10 -0.1
KOD 73.98 50 eP 27 33.00 -1.1
MBL 74.17 104 eP 27 34.00 -0.9
0.6s 35.00nm 5.6mb
ADE 74.28 126 iPd- 27 35.70 0.3
1.2s 231.25nm 6.1mb
BFD 74.43 130 eP 27 37.00 0.8
1.1s 176.00nm 6.0mb
WARB 74.45 112 eP 27 36.00 -0.5
0.6s 36.00nm 5.6mb
TOO 75.50 133 iPd 27 44.70 2.3X
MBO 76.67 314 iPd 27 49.00 -0.1
GBA 76.89 48 P 27 48.00 -2.3
RYD 77.08 16 eP 27 51.20 0.0
WAJH 77.26 7 ePc 27 53.30 1.2
STK 78.19 126 P 28 02.40 5.0X
BEE 79.09 19 iP 28 01.30 -0.9
0.7s 107.00nm 6.0mb
CNB 79.13 134 eP 28 05.00 2.4X
0.7s 77.00nm 5.8mb
BBU 79.27 19 iP 28 02.50 -0.6
0.6s 162.00nm 6.2mb
BADA 79.49 5 eP 28 07.50 3.2X
POO 79.62 43 iPd 28 03.00 -2.3
CCH 79.98 255 P 28 08.50 0.8
HOL 80.23 5 ePc 28 10.00 1.7
MOZ 80.32 154 P 28 10.40 1.7
ASPA 80.56 116 P 28 10.40 0.0
CMS 80.62 129 eP 28 11.00 0.5
HLW 80.68 2 eP 28 12.50 1.9
eS 38 22.00
MBH 80.72 5 eP 28 11.00 0.0
HYB 80.73 47 ePd 28 09.50 -1.7
1.4s 300.00nm 6.1mb
KOT 80.76 2 eP 28 11.70 0.7
LTZ 81.07 153 P 28 14.40 1.6
CNCB 81.53 254 P 28 17.70 1.5
i 38 30.00
KGM 81.62 76 ePc 28 15.60 -0.4
KHZ 81.76 154 P 28 17.80 1.5
LPB 81.82 254 P 28 17.00 -0.5
1.0s 100.00nm 5.8mb
Z 22s 20.00um 6.4Msz
SKS 38 30.00
SS 43 42.00
LR 55 02.00
ZOBO 82.03 254 eP 28 18.52 -0.3
1.5s 127.96nm 5.8mb
SKS 38 38.00
LR 55 04.00
THZ 82.19 153 P 28 20.10 1.5
IPM 82.25 73 ePd 28 18.10 -1.2
0.7s 77.60nm 5.9mb
DSI 82.54 5 eP 28 20.00 -0.3
WEL 83.15 155 P 28 25.00 1.5
PP 31 28.00
S 38 46.00
SP 39 48.00
SS 44 08.00

WRA 83.73 114 P 28 26.20 -0.7
WB2 83.74 114 iPc 28 26.50 -0.4
0.9s 97.10nm 6.0mb
OLP 83.82 125 eP 28 26.00 -1.3
MNG 83.96 155 P 28 29.10 1.4
1.0s 173.00nm 6.2mb
SNG 84.07 71 eP 28 27.70 -0.8
eS 38 50.80
PGZ 84.17 155 P 28 30.10 1.4
COO 84.25 133 eP 28 32.00 2.6X
HRI 84.25 5 eP 28 29.00 -0.1
BHL 84.88 5 P 28 28.00 -4.2X
SKS 39 02.00
LR 59 02.00
KUPT 84.90 100 e(P) 28 30.40 -2.3
CNZ 85.30 154 P 28 36.10 1.5
NGZ 85.34 154 P 28 35.80 0.9
KETZ 85.43 154 P 28 36.90 1.7
RATZ 85.68 154 P 28 37.70 1.3
HITZ 85.82 154 P 28 38.40 1.3
RMO 86.18 129 eP 28 39.00 -0.1
OIS 86.22 118 ePd 28 39.30 0.0
e 30 57.00
TAZ 86.47 155 P 28 41.90 1.7
NOZ 86.51 156 eP 28 43.40 3.0X
BRS 87.35 132 iPd 28 46.00 1.2
eS 39 24.00
HBZ 87.54 156 P 28 46.60 1.2
OUE 87.54 32 iPd- 28 45.40 -0.2
1.5s 1611.11nm 7.1mb X
eSKS 39 16.40
eS 39 32.30
KHT 88.97 65 iPc 28 51.80 -0.7
IFR 89.58 332 iP 28 56.50 1.3
SOI 89.60 350 P 28 56.90 2.0
NDI 90.02 41 eP 28 56.00 -1.1
AVE 90.08 330 eP 28 52.50 -4.8X
i 28 58.00
TAB 90.10 13 eP 28 57.00 -0.5
CTA 90.20 123 iPc 28 59.00 0.6
1.0s 58.00nm 5.8mb
iS 39 32.00
DST 90.38 360 eP 28 58.00 -0.6
NST 90.56 66 eP 29 01.50 1.6
IGT 90.65 353 ePd 29 00.86 1.1
BBTK 90.67 3 iPc 29 00.00 0.0
LIT 91.07 355 ePc 29 01.38 -0.3
TDS 91.14 350 P 29 03.70 1.7
BDT 91.18 64 eP 28 59.00 -3.7X
YLV 91.34 0 eP 29 02.80 -0.2
ORI 91.53 350 P 29 03.90 0.1
THE 91.57 355 ePd 29 04.02 0.1
MGR 91.70 350 P 29 03.90 -0.7
ITU 91.88 360 iPc 29 08.00 2.7X
GRG 91.93 355 ePc 29 04.58 -1.0
ENIJ 92.00 335 eP 29 07.00 0.9
KNT 92.10 355 ePc 29 06.58 0.2
SGO 92.14 349 P 29 07.80 1.2
OHR 92.18 354 iPc 29 07.60 0.8
1.9s 294.00nm 6.3mb
i 29 18.30
i 29 40.50
PLAT 92.19 332 eP 29 11.00 4.0X
KAS 92.23 3 eP 29 07.00 0.0
BRT 92.26 351 P 29 08.90 1.8
VAY 92.28 355 iP 29 08.50 1.3
1.3s 68.00nm 5.9mb
i 29 24.40
iPP 32 43.00
CHG 92.40 63 eP 29 07.90 -0.4
eS 39 40.00
CHTO 92.40 63 iPd 29 06.68 -1.6
epPc 29 10.15 11kmX
CNIL 92.51 332 eP 29 10.50 2.2X
DMN 92.54 47 P 29 07.88 -1.2
1.2s 183.00nm 6.4mb
AFC 92.62 334 eP 29 10.00 0.9
PKI 92.65 48 P 29 07.94 -1.8
1.6s 284.00nm 6.4mb
ECOG 92.65 334 eP 29 10.00 0.8
GKN 92.66 47 P 29 08.02 -1.5
1.4s 479.00nm 6.7mb
KKM 92.75 84 ePd 29 10.20 0.0
KKN 92.78 47 P 29 08.74 -1.4
LIJA 92.82 333 eP 29 08.50 -1.4
LOE 92.86 66 eP 29 10.00 -0.4
SKO 93.00 354 iP 29 11.10 0.6

11d 21h

		1.5s	920.00nm			7.0mb	X
	Z	19s	13.10um			6.4Msz	
	N	16s	9.43um				
	E	18s	14.87um				
			iPP	32	52.00		
			iSKS	39	41.00		
			iS	40	20.00		
			iPS	41	24.00		
			i	43	16.00		
			i	44	18.00		
			iSS	46	16.00		
			LR	13	30.00		
GUN		93.16	48 P	29	10.84	-1.2	
ESEL		93.44	340 eP	29	13.00	0.4	
SDI		93.46	348 P	29	12.90	0.2	
BDV		93.50	352 eP	29	14.00	1.2	
EBAN		93.54	334 eP	29	13.00	-0.1	
TTG		93.61	353 eP	29	14.30	1.1	
			eS	39	46.00		
EHOR		93.63	333 eP	29	14.00	0.5	
HCY		93.69	352 eP	29	15.20	1.5	
EVAL		93.84	332 eP	29	11.00	-3.5X	
IVA		94.00	353 eP	29	16.00	0.8	
NKY		94.01	352 eP	29	16.00	0.7	
PLE		94.49	353 eP	29	18.00	0.5	
PGF		94.97	345 eP	29	19.60	-0.1	
		1.2s	17.85nm			5.4mb	
EBR		94.98	338 eP	29	21.00	1.4	
			ePP	33	08.00		
EROQ		95.00	338 eP	29	20.00	0.3	
BUC1		95.16	358 ePd	29	16.00	-4.3X	
TOL		95.22	335 iPc	29	23.00	2.2X	
			iPP	33	07.00		
			ePPP	35	13.00		
			iSKS	39	55.00		
			iS	40	42.00		
			iPS	41	47.00		
ETOR		95.59	337 eP	29	23.00	0.4	
FIR		95.83	347 eP	29	32.00	8.5X	
BEO		95.90	354 eP	29	23.50	-0.2	
EPLA		95.95	333 eP	29	25.50	1.3	
CMP		96.11	357 ePc	29	14.00	-10.7X	
LMR		96.16	344 eP	29	25.60	0.6	
		1.2s	23.80nm			5.6mb	
LRG		96.31	343 eP	29	26.50	0.9	
		1.1s	24.40nm			5.6mb	
	Z	20s	35.00um			6.8Msz	
MLR		96.31	358 eP	29	25.00	-0.8	
FRF		96.36	344 eP	29	26.50	0.6	
		1.1s	17.10nm			5.5mb	
SBF		96.51	344 eP	29	26.80	0.1	
		1.1s	14.65nm			5.4mb	
CDR		96.63	343 ePc	29	28.30	1.2	
			e	33	18.40		
EPF		97.12	339 eP	29	29.80	0.4	
		1.3s	28.90nm			5.7mb	
LSA		97.17	51 P	29	30.00	-0.5	
	N	14s	1.30um				
	E	15s	1.40um				
BTH		97.33	339 P	29	31.20	0.9	
			sP	29	47.00		
BNI		97.80	344 P	29	37.70	5.2X	
UZD		97.80	353 e(P)	29	34.00	1.7	
DZM		97.95	140 iPc	29	35.90	1.9	
CTI		98.01	348 P	29	33.70	0.3	
LPG		98.22	344 eP	29	35.10	0.5	
		1.3s	10.85nm			5.3mb	
LPL		98.24	344 eP	29	34.90	0.3	
		1.2s	11.90nm			5.4mb	
VAI		98.25	346 P	29	34.00	-0.3	
FVI		98.40	349 P	29	32.70	-2.2	
LPO		98.51	340 eP	29	35.60	0.1	
		1.4s	30.50nm			5.8mb	
CAF		98.55	341 eP	29	35.80	0.0	
		1.3s	21.65nm			5.6mb	
RJF		99.03	341 eP	29	37.80	-0.1	
		1.3s	21.65nm			5.6mb	
	Z	22s	22.50um			6.6Msz	
KSH		99.05	35 P	29	37.00	-1.3	
ZST		99.52	352 eP	29	40.20	0.2	
KMI		99.54	62 ePd	29	48.48	7.5X	
		1.5s	30.00nm			5.7mb	
			eSKS	40	09.46		
			eSDIF	41	14.52		
			ePS	42	34.47		
KMI		99.54	62 Pc	29	41.00	0.0	
		1.5s	30.00nm			5.7mb	

SMF		99.85	343 eP	29	42.60	1.0	
		1.0s	6.00nm			5.1mb	
AVF		100.08	342 ePdiff	29	42.20	-0.6	
LBF		100.15	343 ePdiff	29	43.80	0.6	
		1.2s	8.95nm			5.2mb	
SPC		100.26	354 ePdiff	29	43.00	-0.8	
			e	33	50.40		
LOR		100.45	343 ePdiff	29	45.20	0.8	
		1.2s	8.95nm			5.2mb	
	Z	20s	17.50um			6.6Msz	
BSF		100.48	345 ePdiff	29	44.80	0.1	
		0.9s	6.55nm			5.2mb	
HAU		100.72	345 ePdiff	29	45.00	-0.6	
		1.1s	7.35nm			5.2mb	
	Z	20s	30.00um			6.8Msz	
KHC		100.80	350 ePdiff	29	47.00	1.0	
		1.3s	29.00nm			5.7mb	
	Z	20s	4.80um			6.0Msz	
	N	20s	4.80um				
	E	20s	9.80um				
			e	33	50.90		
			e	41	30.00		
PRU		101.54	350 ePdiff	29	50.50	1.3	
		1.5s	35.70nm			5.8mb	
	Z	18s	7.60um			6.3Msz	
	N	20s	5.70um				
	E	20s	6.30um				
			e	30	05.00		
			e	33	55.50		
KSP		102.22	352 ePdiff	30	00.00	7.8X	
		1.5s	59.00nm			6.0mb	
			ic	34	00.80		
MOX		102.53	349 ePdiff	29	55.00	1.4	
	Z	15s	6.30um			6.3MszX	
	N	23s	10.20um				
	E	16s	6.40um				
			e	33	39.00		
GYA		102.78	64 Pdiff	29	56.00	0.6	
	Z	36s	5.20um			5.8MszX	
	N	18s	3.60um				
	E	18s	3.30um				
			PP	34	06.00		
CLL		103.01	350 ePdiff	29	58.00	2.3X	
		2.3s	41.00nm			5.8mb	
	Z	18s	8.50um			6.3Msz	
			ePP	34	05.00		
WMQ		107.30	40 Pdiff	30	16.00	0.9	
		6.0s	1130.00nm			7.1mb	X
			PP	34	38.00		
MUD		108.53	348 ePKP	34	35.00	9.3X	
		0.9s	6.60nm				
GTA		109.19	51 Pdiff	30	23.20	-0.5	
		8.0s	710.00nm				
	Z	24s	12.20um			6.4MszX	
	N	23s	9.90um				
NUR		111.37	358 iPKP	34	29.00	-1.9	
	Z	20s	11.80um			6.5Msz	
			e	35	12.00		
			e	44	38.00		
			e	50	30.00		
			LR	25	04.00		
KAF		112.94	358 ePKP	34	31.00	-2.9	
NJ2		113.98	68 PKPd	34	38.30	1.4	
	Z	20s	3.90um			6.0Msz	
	N	18s	3.80um				
	E	16s	2.30um				
TIY		114.45	60 ePKP	34	36.00	-1.8	
	Z	22s	3.90um			6.0Msz	
	N	20s	5.00um				
SSE		114.67	71 PKPc	34	39.70	1.5	
	Z	20s	9.20um			6.4Msz	
	N	18s	12.80um				
	E	18s	4.60um				
			SS	51	32.00		
BTO		115.25	56 ePKP	34	38.00	-1.2	
	N	17s	2.70um				
	E	17s	2.40um				
			eSKS	41	48.00		
TIA		115.97	64 ePKP	34	40.30	-0.3	
	Z	40s	5.70um			5.9MszX	
	N	18s	4.60um				
			SS	51	45.00		
HHC		116.24	57 PKP	34	41.30	0.2	
	Z	27s	5.20um			6.0MszX	
	N	17s	1.80um				
	E	17s	2.80um				
			SKS	41	55.00		

			SKKS	42	38.00		
BJI		118.15	60 ePKP	34	43.00	-1.6	
		6.0s	910.00nm				
	Z	22s	7.06um			6.2Msz	
	N	19s	7.82um				
			ePP	35	56.00		
			eSKKS	42	49.00		
SOD		118.22	359 iPKP	34	42.00	-1.9	
DL2		120.41	65 ePKP	34	49.80	0.9	
KEV		120.61	359 iPKP	34	47.00	-1.3	
		0.6s	23.50nm				
			e	35	25.00		
			e	36	20.00		
			e	46	10.00		
			e	47	34.00		
			e	52	00.00		
AKU		122.03	339 iPKP	34	50.10	-1.0	
		1.0s	28.00nm				
SNY		123.47	63 PKPc	34	54.10	-0.6	
	Z	24s	4.40um			6.0MszX	
	N	16s	1.60um				
	E	18s	1.70um				
			SKKS	43	30.00		
			SS	53	20.00		
CN2		125.80	63 PKPc	34	58.00	-1.2	
		6.0s	900.00nm				
	Z	19s	11.00um			6.5Msz	
	N	19s	1.00um				
	E	19s	2.00um				
HIA		126.19	54 ePdiff	31	46.71	7.9X	
			ePP	36	50.48		
			eHPP	36	51.30		
PPM		128.17	252 (PKP)	35	05.50	0.4	
CBM		128.40	300 ePKP	35	03.30	-0.7	
MDJ		128.64	64 ePKP	35	01.00	-3.6X	
	Z	24s	4.54um			6.1MszX	
	N	16s	2.90um				
	E	16s	3.05um				
			PP	37	11.00		
			PKS	38	36.00		
			SKKS	44	04.00		
PRM		128.75	278 PKP	35	04.70	-0.4	
RSNY		130.57	294 ePKPc	35	07.50	-0.8	
	Z	21s	3.80um			6.1Msz	
TKL		130.65	279 PKP	35	16.00	7.3X	
DAG		131.21	347 iPKPd	35	04.50	-4.0X	
		1.3s	46.15nm				
SCH		132.20	309 ePKPd	35	10.90	-0.2	
		0.8s	34.00nm				
MRRJ		134.06	73 ePKP	35	15.50	0.6	
OLY		135.37	273 PKP	35	16.90	-0.8	
HOOJ		135.37	74 ePKP	35	17.20	-0.2	
ASAJ		135.96	72 ePKP	35	18.80	0.3	
FVM		136.26	277 ePKP	35	17.00	-2.3	
UYO		136.39	270 e(PKP)	35	09.10	-10.5X	
FRB		137.20	320 ePKP	35	13.00	-7.2X	
ALQ		144.42	260 ePKP	35	30.20	-4.1X	
	Z	20s	2.84um			6.0Msz	
ANMO		144.42	260 PKP	35	31.00	-3.3X	
GLD		146.60	268 ePKP	35	39.20	1.4	
	Z	20s	3.30um			6.1Msz	
GOL		146.67	268 PKP	35	38.20	0.2	
	Z	20s	6.00um			6.4Msz	
RSSD		148.20	276 iPKPd	35	39.90	-0.3	
	Z	21s	4.24um			6.2Msz	
GLA		148.21	249 ePKP	35	43.00	2.7X	
BAR		149.02	247 ePKP	35	44.80	3.2X	
PET		149.37	66 ePKP	35	45.00	3.6X	
		0.6s	200.00nm				
	Z	20s	4.50um			6.3Msz	
			e	35	57.00		
			e	36	20.00		
			e	38	30.00		
			e	42	56.00		
			e	49	36.00		
PLM		149.62	247 ePKP	35	45.00	2.3X	
TPC		149.68	249 ePKP	35	42.00	-0.6	
PEC		150.18	248 ePKP	35	44.00	0.7	
MSU		150.22	260 PKP	35	44.60	1.1	
RVR		150.37	248 ePKP	35	44.00	0.4	
DAU		150.78	264 PKP	35	46.20	1.8	
FFC		150.87	296 ePKP	35	43.00	-0.6	
		1.2s	23.00nm				
MWC		150.93	247 ePKP	35	48.00	3.3X	
PAS		150.95	247 ePKP	35	48.00	3.6X	
GSC		150.95	250 ePKP	35	46.00	1.5	
BW06		150.99	270 ePKP	35	43.60	-1.0	

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SBB   151.13 248 ePKP   35 46.00    1.2
DUG   151.62 262 PKP    35 46.80    1.3
CLC   151.78 250 ePKP   35 48.00    2.3X
MBC   151.99 345 ePKP   35 45.00    0.3
       1.0s   189.00nm
ABL   152.05 247 PKP    35 48.00    1.6
ISA   152.19 249 ePKP   35 48.65    2.3X
BCH   152.79 246 PKP    35 49.00    1.8
TNP   153.05 254 ePKPd  35 48.00    0.4
PRI   153.80 247 ePKPc  35 50.60    2.0
FRI   153.82 249 iPKPc  35 49.90    1.5
                 e      36 13.00
KVN   154.20 255 PKP    35 49.30    0.1
LRM   154.28 273 ePKP   35 52.50    3.3X
LLA   154.29 247 e(PKP)35 51.60    2.4X
PRS   154.34 246 e(PKP)35 52.90    3.7X
CMB   154.92 250 ePKPc  35 51.90    1.9
                 e      36 15.80
ARN   155.13 248 PKP    35 53.00    2.7X
MHC   155.19 248 e(PKP)35 52.90    2.5X
BKS   155.90 248 e(PKP)35 50.50   -0.8
                 e(SS) 00 00.00
BRK   155.91 248 e(PKP)35 53.70    2.5X
ORV   156.57 252 e(PKP)35 53.40    1.3
MIN   157.12 253 ePKP   35 54.10    1.1
EDM   157.15 290 ePKP   35 51.00   -1.4
WDC   157.83 253 iPKPc  35 55.20    1.6
LBFM  157.90 255 PKP    35 55.50    1.5
ILT   158.36  29 ePKP   35 53.00   -0.3
       1.6s    28.00nm
     Z 20s     2.80um          6.1Msz
     E 20s     3.30um
               e      35 56.00
               e      36 04.50
               i      36 52.00
               e      40 06.00
               e      40 30.00
               eSS    00 00.00
               e      07 04.00
BRW   159.60   6 e(PKP)35 54.60    0.0
PNT   160.08 277 ePKP   35 57.00    1.2
       0.8s    13.00nm
INK   160.86 340 ePKPc  35 51.90   -4.1X
IMA   164.97   5 ePKP   35 58.30   -2.0
       1.0s    12.90nm
COL   166.13 355 ePKPc  36 01.27    0.2
               ePKPab 37 00.87
               eHPP   40 55.74
               iPP    40 56.07
FBA   166.13 355 ePKPc  35 59.00   -2.0
TTA   167.86  12 ePKP   36 03.00    0.5
TOA   168.74 349 PKP    36 00.00   -3.1X
KLU   169.30 347 PKP    36 02.00   -1.4
PMR   169.50 356 ePKP   36 03.50    0.1
       1.0s   283.00nm
SVW   169.66  13 ePKP   36 03.90    0.3
RSO   170.60   6 ePKP   36 01.40   -3.0
SLKM  170.62 358 ePKP   36 02.70   -1.4
PDB   171.13  11 PKP    36 03.00   -1.3
     S.D. = 1.2  on 236 of 304 obs.
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?  MAR 11, 1991  21h 42m 03.87± 2.47s
   33.402 N ±19.5km  142.002 E ±32.2km
   DEPTH =  33.0km  (normal)
   4.0mb (  1 obs.)
 OFF EAST COAST OF HONSHU, JAPAN (229)

MAT    4.42 316 eP     43 10.00   -0.4
               eS     43 58.00
YAMJ   5.02 342 P      43 18.60   -0.3
               eS     44 16.90
OFUJ   5.67 357 eP     43 29.10    1.1
               eS     44 29.60
GBA   61.49 268 Pd     52 21.00    1.0
NB2   77.72 338 P      53 57.20   -1.5
       0.7s     1.00nm          4.0mb
     S.D. = 1.5  on  5 of  5 obs.
-------------------------------------
•  MAR 11, 1991  23h 27m 17.19± 1.08s
   33.171 N ± 9.5km  142.106 E ±28.0km
   DEPTH =  33.0km  (normal)
   4.3mb (  2 obs.)
 OFF EAST COAST OF HONSHU, JAPAN (229)

MAT    4.64 317 eP     28 27.00    0.1
               eS     29 20.00
YAMJ   5.27 342 eP     28 35.30   -0.3
OFUJ   5.91 357 eP     28 44.90    0.2
               eS     29 46.20
WB2   53.33 189 eP     36 35.90    0.5
       0.9s     2.70nm          4.2mb
WRA   53.33 189 P      36 35.00   -0.5
       0.5s     2.20nm          4.4mb
     S.D. = 0.5  on  5 of  5 obs.
-------------------------------------
   MAR 12, 1991  00h 00m 10.11± 0.75s
   51.647 N ± 4.6km   16.295 E ± 9.0km
   DEPTH =  10.0km  (geophysicist)
 POLAND                          (548)
     ML 3.3 (GRF), 3.2 (VKA).

KSP    0.81 180 iPd    00 25.30   -0.4
       0.3s    79.00nm
               iS     00 33.40
               i      00 39.00
BRG    1.67 243 ePn    00 39.50    0.0
               iPg    00 40.40
               iSg    00 59.70
PRU    2.00 214 Pn     00 44.00   -0.3
               Pg     00 46.00
               e      00 50.00
               Sn     01 02.00
               eSg    01 07.50
CLL    2.09 262 iPn    00 45.70    0.2
               iPg    00 48.60
               eSg    01 14.00
KHC    3.06 216 iPn    00 59.80    0.4
               iPg    01 05.50
               Sn     01 34.60
               Sg     01 45.20
HOF    3.09 246 ePn    00 59.90    0.0
MOX    3.11 253 iPg    01 08.00    7.9X
               iSg    01 48.00
WET    3.32 222 iPnd   01 02.90   -0.3
VKA    3.39 180 ePn    01 04.50    0.4
               iPg    01 13.00
               iSg    01 57.00
GRF    3.77 241 iPnc   01 09.60    0.0
               ePg    01 23.40
               eSg    02 07.30
KBA    4.96 204 iPnc   01 26.70    0.1
               i      01 35.40
               e      02 30.50
               e(Sg)  02 43.00
HFS    8.63 351 eP     02 18.80    0.9
       0.4s     0.60nm          4.3mb X
NRA0   9.48 346 Pn     02 28.60   -1.0
               Sn     04 11.40
     S.D. = 0.5  on  12 of  13 obs.
-------------------------------------
?  MAR 12, 1991  01h 50m 24.37± 2.44s
   6.807 S ±20.7km  147.384 E ±23.6km
   DEPTH =  83.2 ± 14.6 km
   4.5mb (  4 obs.)
 EAST PAPUA NEW GUINEA REGION    (207)

YYYY   1.52 292 eP     50 50.50   -0.1
PMG    2.59 185 eP     51 05.50    0.5
WB2   18.18 223 iPc    54 32.30   -0.6
       0.2s     6.40nm          4.5mb
WRA   18.19 223 iPc    54 32.30   -0.7
       0.2s     6.40nm          4.5mb
BRS   21.10 167 iPc    55 03.50   -0.6
ASPA  21.19 216 iPc    55 05.40    0.4
       0.6s    12.60nm          4.4mb
               i      59 13.50
WARB  27.61 223 eP     56 07.00    1.0
       0.4s     2.00nm          4.1mb
     S.D. = 0.9  on  7 of  7 obs.
-------------------------------------
•  MAR 12, 1991  03h 24m 45.35± 1.00s
   33.508 S ±12.5km  179.089 W ±24.2km
   DEPTH = 200.0 ±  9.3 km
   5.0mb (  4 obs.)
 SOUTH OF KERMADEC ISLANDS       (179)

HBZ    4.60 207 eP     25 56.70    1.5
PUZ    5.04 205 eP     26 02.10    1.2
               eS     27 18.10
NOZ    5.61 204 eP     26 09.90    1.8
TAZ    5.92 216 eP     26 15.70    3.5X
WLZ    6.12 224 eP     26 18.90    4.1X
NGZ    7.10 216 eP     26 28.90    1.2
PGZ    8.01 206 eP     26 39.40   -0.3
       0.2s    15.00nm          4.9mb
MNG    8.32 210 eP     26 42.70   -0.9
       0.2s    16.00nm          4.9mb
               eS     28 30.60
KIW    8.76 211 P      26 48.90   -0.5
MTW    8.77 208 eP     26 48.00   -1.4
MRW    9.15 211 eP     26 53.90   -0.5
               eS     28 49.80
TCW    9.33 213 eP     26 54.90   -1.8
THZ   10.40 215 eP     27 10.90    0.2
               eS     29 17.00
KHZ   10.62 211 eP     27 13.00   -0.5
LTZ   11.48 214 eP     27 24.50   -0.1
WB2   43.38 276 iPd    32 30.10    0.4
       0.6s    29.80nm          5.0mb
WRA   43.39 276 P      32 30.00    0.2
       0.5s    30.20nm          5.1mb
FORR  44.38 258 eP     32 41.50    4.0X
YKA   108.63  26 ePKP   42 50.70   -0.2
       0.5s     0.20nm
KEV   140.92 346 ePKP   43 52.00    0.0
BCAO  146.73 213 iPKPc  44 11.50    7.9X
       0.2s    24.00nm
KAF   147.12 338 iPKP   44 02.50   -0.2
       0.4s     2.70nm
NUR   148.86 337 iPKP   44 08.80    3.3X
NB2   151.65 349 PKP    44 15.20    5.4X
       0.6s     3.70nm
HFS   152.07 346 ePKP   44 15.60    5.3X
       0.5s     5.80nm
LIC   152.30 167 PKP    44 25.60   13.5X
KIC   152.48 168 PKP    44 25.90   13.6X
     S.D. = 1.0  on  18 of  27 obs.
-------------------------------------
   MAR 12, 1991  05h 56m 46.97± 0.24s
   60.830 N ± 5.1km  167.012 E ± 4.6km
   DEPTH =  33.0km  (normal)
   4.8mb ( 43 obs.)
 EASTERN SIBERIA                 (671)

KLY    5.55 218 eP     58 09.50    0.2
PET    9.06 214 eP     58 59.00    0.6
     Z 14s     2.50um
TTA   17.40  67 eP     00 51.60    3.1X
BRW   17.71  39 eP     00 55.90    3.8X
SVW   17.98  73 P      00 53.40   -2.3
IMA   18.09  56 eP     00 57.70    0.6
       0.9s     9.00nm          3.9mb
RSO   19.52  73 P      01 14.40    0.1
FBA   20.65  59 eP     01 25.80   -0.1
       1.0s    19.00nm          4.4mb
SLKM  20.69  72 P      01 20.00   -6.3X
TOA   22.03  66 eP     01 40.90    1.0
BALM  24.11  67 P      02 01.30    1.0
INK   25.60  48 eP     02 15.00    0.7
MBC   28.42  29 eP     02 37.50   -2.4
NIIJ  29.48 230 P      02 50.00    0.2
MAT   30.40 230 iPd    02 58.00    0.0
       1.1s    31.65nm          5.0mb
MTMJ  30.51 231 eP     02 58.90   -0.2
CHJJ  30.54 229 eP     02 59.40    0.2
YKA   35.12  52 eP     03 37.90   -0.8
       0.7s     1.20nm          3.9mb
NEW   43.24  71 P      04 46.10   -0.3
       0.9s    12.28nm          4.7mb
FFC   45.16  55 eP     05 02.50    0.7
       1.3s    32.00nm          5.1mb
LZH   46.34 268 eP     05 10.00   -1.5
       2.0s    25.00nm          4.8mb
               sP     05 21.00
HBMT  47.15  70 eP     05 23.90    6.0X
FRB   48.88  29 eP     05 30.00   -0.7
BW06  50.86  71 P      05 46.60    0.1
       0.9s     4.94nm          4.5mb
TNP   50.91  80 P      05 46.30   -0.6
       0.7s     2.22nm          4.2mb
KAF   53.76 338 eP     06 07.00   -0.6
NUR   55.55 339 eP     06 20.00   -0.7
       0.7s    10.70nm          5.0mb
NB2   57.04 346 P      06 30.90   -0.6
       0.8s    17.70nm          5.1mb
SCH   57.08  34 eP     06 31.00   -0.8
UPP   57.33 342 iP     06 32.30   -1.1
HFS   57.61 345 eP     06 34.10   -1.3
       0.7s     9.70nm          5.0mb
     Z 18s     0.14um          4.1Msz
               LR     28 35.00
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12d 06h

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ALO    58.57  74 eP     06 48.00   5.3X
       1.0s     2.50nm          4.3mb
GUN    61.79 277 P      07 04.00  -1.0
KKN    62.18 278 P      07 06.60  -0.8
GKN    62.31 278 P      07 07.00  -1.2
EKA    63.92 354 P      07 18.00  -0.2
       0.6s     8.20nm          5.0mb
CLL    66.28 343 iPc    07 36.20   2.7
       1.3s    15.00nm          4.9mb
BRG    66.56 342 e(P)   07 36.20   0.9
CDF    69.89 346 eP     07 56.20   0.1
       0.7s     4.40nm          4.6mb
FLN    70.30 351 eP     07 58.20  -0.3
       0.7s    11.00nm          5.0mb
KBA    70 35 341 iPc    08 03.70   4.6X
       1.2s    10.00nm          4.8mb
                i       08 10.50
HAU    70.40 346 eP     07 59.10   0.0
       0.7s     4.15nm          4.6mb
LDF    70.44 351 eP     07 59.10  -0.2
       0.8s    10.75nm          5.0mb
BSF    70.52 346 eP     08 00.00   0.0
       0.7s     6.60nm          4.8mb
GRR    70.70 351 eP     08 00.90   0.0
       0.8s    16.10nm          5.1mb
LPF    71.06 352 eP     08 03.30   0.2
       0.9s    19.65nm          5.2mb
LOR    71.40 348 eP     08 05.20   0.0
       0.8s    14.80nm          5.1mb
SSF    71.64 348 eP     08 07.00   0.4
       0.8s     6.70nm          4.7mb
LBF    71.66 348 eP     08 06.60  -0.2
       0.8s     6.05nm          4.7mb
AVF    71.92 348 eP     08 08.60   0.3
       0.8s    16.10nm          5.1mb
SMF    72.01 348 eP     08 08.80  -0.1
       0.8s     4.70nm          4.5mb
BGF    72.20 349 eP     08 10 10   0.1
       0.8s     5.35nm          4.6mb
MFF    72.42 351 eP     08 11.60   0.4
       0.9s     6.55nm          4.6mb
TCF    72.53 349 eP     08 12.40   0.5
       0.8s     7.40nm          4.7mb
MAF    72.56 349 eP     08 12.40   0.3
       0.8s     4.70nm          4.5mb
LSF    72.63 349 eP     08 12.80   0.3
       0.8s    10.75nm          4.9mb
LPL    72.80 346 eP     08 14.60   0.8
       0.4s     2.30nm          4.5mb
LPG    72.82 346 eP     08 14.90   0.9
       0.4s     2.30nm          4.5mb
RJF    73.57 349 eP     08 18.50   0.5
       0.7s     4.40nm          4.6mb
CAF    73.89 349 eP     08 21.00   1.1
       0.9s    13.10nm          4.9mb
LFF    74.00 350 eP     08 21.30   0.9
       0.7s    11.00nm          5.0mb
LPO    74.21 350 eP     08 22.60   0.9
       0.7s     8.80nm          4.9mb
HYB    74.22 277 eP     08 21.50  -0.7
EPF    75.93 350 eP     08 32.70   1.1
       0.8s     5.35nm          4.6mb
GBA    78.04 276 P      08 43.60   0.0
                e       11 53.60
TOL    79.38 353 eP     08 55.00   4.4X
WB2    84.70 211 iPd    09 18.30   0.0
       0.9s     8.40nm          4.9mb
WRA    84.70 211 P      09 18.00  -0.4
       0.8s     8.00nm          5.0mb
ASPA   88.38 210 iPd    09 37.20   0.9
       1.0s     4.50nm          4.7mb
     S.D. = 0.9  on  62 of  69 obs.
-----------------------------------------
   MAR  12, 1991  06h 04m 05.08± 0.13s
   23.161 N ± 2.6km  120.053 E ± 2.6km
   DEPTH =  17.0km  (  6 depth phases)
   5.6mb ( 81 obs.)  5.2Msz (  8 obs.)
 TAIWAN                          (244)
      Felt (V JMA) in the Tainan area.
      Also felt at Hong Kong.
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 17S, 30C
      Centroid Location:
      Origin Time       06:04: 2.8 0.6
      Lat 23.34N 0.08 Lon 119.66E 0.09
      Dep  15.0 FIX Half-duration  4.0

      Moment Tensor;   Scale 10**17 Nm
        Mrr= 0.33 0.09  Mtt= 1.30 0.10
        Mff=-1.63 0.10  Mrt=-0.02 0.21
        Mrf=-0.34 0.29  Mtf= 0.42 0.09
        Principal Axes:
        T  Val=  1.37  Plg= 4  Azm=172
        N        0.37       80       58
        P       -1.74        9      262
        Best Double Couple:Mo=1.5*10**17
        NP1:Strike=307 Dip=81 Slip=  -4
        NP2:         37       86      -171

TWK    0.41  75 iPd    04 13.40   -0.2
                eS      04 19.70
TWM1   0.48 134 iPc     04 16.70    2.0
                eS      04 24.30
TWG    1.00 110 iPd     04 24.60    1.1
                eS      04 38.00
TWF1   1.16  80 iPd     04 26.50    0.2
                eS      04 41.10
TWO    1.32  33 iPc     04 28.60   -0.1
                eS      04 45.00
QZH    2.22 323 iPnc    04 40.50   -1.2
     Z  12s     0.60um
                Pg      04 44.00
                Sn      05 08.00
TWZ    2.38  36 ePc     04 43.10   -0.8
ANP    2.42  33 iPc     04 43.50   -1.1
                eS      05 07.70
PIP    4.84 174 ePc     05 17.00   -1.9
                iS      06 12.00
HKC    5.50 262 iP      05 27.00   -1.2
                iS      06 31.00
CVP    5.68 163 eP      05 29.00   -1.7
                eS      06 25.00
MCO    6.09 261 iP      05 36.00   -0.5
GZH    6.18 271 iPd     05 36.00   -1.7
     0.8s   500.00nm          6.4mb
     Z  10s    35.10um          4.2MszX
     N  10s    30.00um
                S       06 43.00
BAG    6.73 176 eP      05 44.00   -1.8
SSE    7.97   7 Pd      05 59.50   -3.3X
     1.0s   220.00nm          6.3mb
     Z  12s    44.70um          3.9Msz
     N  12s    32.10um
     E  10s    30.40um
                pP      06 03.00
                sP      06 06.00
QCP    8.53 173 eP      06 10.00   -0.8
NJ2    8.92 353 Pd      06 12.60   -3.5X
     Z  14s    16.30um
                S       07 50.40
WHN    8.94 327 iPd     06 13.50   -2.9
     0.8s   300.00nm          6.6mb X
     Z  12s    24.00um          6.5Msz
                sP      06 24.50
                S       07 49.00
QIZ   10.38 249 eP      06 33.00   -3.2X
     0.8s    50.00nm          5.9mb
     N  16s    36.00um
     E  15s    17.60um
                eS      08 33.00
GYA   12.60 288 P       07 04.60   -1.8
     Z  14s    14.30um
                pP      07 09.60
                PP      07 16.00
                S       09 29.00
TIA   13.25 350 eP      07 11.60   -3.3X
     Z  12s    19.50um
     E  10s    18.60um
MAP   13.31 163 eP      07 15.00   -0.8
PPR   13.37 186 ePd     07 25.00    8.4X
XAN   14.58 320 Pd      07 30.00   -2.5
     N  12s    41.70um
     E  12s    39.60um
                pP      07 38.00
                sP      07 43.00
CGP   15.29 162 eP      07 49.00    7.2X
      0.5s     9.50nm          4.4mb X
DL2   15.75   5 iPc     07 48.00    0.3
      1.0s   330.00nm          5.5mb
     Z  12s    13.80um          3.7MszX
     N  10s    11.10um
     E  12s    12.70um
TIY   15.91 337 iPc     07 50.00    0.2
      6.0s  1600.00nm          5.3mb X

     Z  14s    34.50um          4.7MszX
     N  17s    55.80um
KMI   15.93 281 eP      07 48.00   -2.2
      2.5s   300.00nm          5.0mb
     Z  15s    17.20um          6.6MszX
                pP      07 58.00
CD2   16.43 302 eP      07 56.80    0.3
     Z  10s    34.70um
     N  10s    49.80um
                S       10 55.00
DAV   16.84 161 eP      08 10.00    8.3X
BJI   17.15 350 eP      08 06.00    0.7
      8.0s  1780.00nm          5.2mb X
     Z  14s    14.60um          4.1Msz
     N  13s    12.00um
     E  11s    10.40um
KKM   17.41 193 eP      08 11.30    2.3
SNY   18.85   8 iPc     08 25.50   -0.9
      5.0s  2300.00nm          5.6mb X
HHC   19.03 340 Pc      08 29.60    0.8
      5.0s  2400.00nm          5.7mb X
     Z  13s    28.70um          4.7Msz
     N  10s     7.90um
     E  10s    18.90um
LZH   19.06 316 iPc     08 29.00   -0.2
      4.0s  1650.00nm          5.6mb X
     Z  12s    23.90um          5.0Msz
     N  10s    22.50um
                sP      08 39.00
BTO   19.34 336 P       08 31.50   -1.0
      6.0s  1700.00nm          5.5mb X
     N  11s    15.80um
     E  11s     9.10um
                sP      08 38.00
CHG   20.17 262 ePd     08 41.90    0.3
      1.1s    75.95nm          5.0mb
                eS      12 40.00
CHTO  20.17 262 P       08 41.50   -0.1
                pP      08 44.50   11km
NST   20.20 252 eP      08 46.20    4.4X
MAT   20.59  46 eP      08 42.00   -3.8X
      0.9s    25.21nm          4.6mb
     Z  20s     5.32um          4.9Msz
                eS      12 24.00
BDT   20.60 257 eP      08 42.20   -3.8X
CN2   21.06  11 Pc      08 48.20   -2.4
      3.0s   600.00nm          5.5mb
     Z  13s    37.20um          6.0MszX
     N  10s     1.90um
     E  10s    11.40um
                pP      08 54.00   21km
                eS      12 36.00
KHT   21.92 251 eP      09 02.30    2.9X
MDJ   22.79  18 iPc     09 07.40   -0.4
     Z  24s     9.58um          5.2MszX
     N  11s     7.01um
GTA   23.61 318 iPc     09 16.40    0.3
      4.0s   840.00nm          5.6mb X
     Z  16s    12.50um          5.5MszX
     N  11s    11.30um
                pP      09 21.40   18km
                sP      09 26.00
                S       13 30.00
                sS      13 37.00
SNG   24.53 233 eP      09 28.20    3.2X
                eS      14 07.30
PJG   25.36 108 eP      09 34.10    1.1
GUA   25.43 108 eP      09 33.20   -0.4
      0.8s   220.90nm          5.9mb
IPM   26.06 228 ePc     09 40.50    1.0
      0.8s    44.30nm          5.2mb
KGM   26.55 220 ePd     09 45.20    1.2
MKS   28.21 181 ePc     10 07.50    8.4X
GUN   31.13 286 P       10 25.68    0.1
PKI   31.55 285 P       10 28.74   -0.4
      0.6s    16.00nm          5.1mb
KKN   31.66 286 P       10 29.72   -0.3
      0.7s    39.00nm          5.4mb
DMN   31.82 285 P       10 31.12   -0.3
      0.7s    32.00nm          5.3mb
GKN   32.23 286 P       10 34.42   -0.6
      0.6s    27.00nm          5.4mb
NDI   38.76 287 iPd     11 30.80    0.3
HYB   39.25 269 eP      11 35.50    0.9
                e       11 42.00   22km
GBA   41.42 264 Pd      11 52.30   -0.1
      0.6s    10.40nm          4.7mb
```

PMG		41.85	138	eP	11	54.00	-1.9	BZS		79.41	315	eP	16	10.00	-1.8	VDL		86.61	320	ePc	16	49.80	0.7
KOD		42.61	260	eP	12	04.30	1.7	VTS		79.47	312	iPc	16	12.00	-0.5	LLS		86.70	320	ePd	16	50.10	0.6
POO		43.29	273	iPc	12	07.30	-0.5	PSZ		79.62	318	iP	16	12.80	-0.2	ZLA		86.74	321	ePd	16	49.70	0.2
WRA		45.05	161	iPd	12	19.80	-2.2	KKB		79.83	311	iPc	16	09.00	-5.2X	FEL		86.75	321	P	16	49.37	-0.3
		1.0s	20.20nm			5.0mb		VAY		80.39	311	iPc	16	17.40	0.2	WLS		86.85	322	P	16	49.94	-0.1
			iS		18	57.10				1.2s	104.00nm			5.7mb		FIR		86.86	317	iPd	16	49.50	-0.5
WB2		45.06	161	iPd	12	19.80	-2.2	COP		80.53	327	iPc	16	18.10	0.5	CDF		86.89	322	P	16	50.19	-0.1
		1.0s	20.20nm			5.0mb				1.2s	75.00nm			5.6mb		MME		87.00	317	P	16	52.70	1.6
			iS		18	57.10			Z	19s	2.08um			5.5Msz		ECH		87.06	322	P	16	50.85	-0.2
NANU		45.66	186	eP	12	26.50	-0.1	KSP		80.58	321	iPc	16	18.60	0.6	MOF		87.27	322	P	16	52.58	0.5
OIS		47.45	155	eP	12	40.00	-0.9			1.0s	99.00nm			5.8mb		VAI		87.34	319	Pd	16	52.30	0.0
ASPA		48.45	163	iPc	12	47.40	-1.3	SRO		80.64	318	iP	16	18.60	0.3	SNF		87.39	325	P	16	53.30	0.8
		0.6s	11.90nm			5.1mb		SKO		80.92	312	iPc	16	20.30	0.3	DOU		87.46	324	P	16	53.70	0.9
			iS		19	51.40				1.0s	142.00nm			5.9mb		BSF		87.47	322	eP	16	53.00	-0.1
WARB		49.47	172	iPd	12	56.20	-0.2					i	16	24.10	12km			1.0s	14.00nm				5.2mb
		0.5s	15.00nm			5.3mb		UZD		80.97	317	iP	16	20.70	0.6	BOB		87.49	318	Pd	16	54.30	1.1
CTA		50.01	147	iPd	13	01.00	0.3	ZST		81.22	319	iP	16	21.90	0.5	HAU		87.63	322	eP	16	53.60	-0.2
		1.2s	56.25nm			5.4mb		VKA		81.67	319	iPc	16	24.80	1.1			0.9s	6.55nm				4.9mb
RMQ		56.63	149	ePd	13	48.50	-1.2	OHR		81.70	311	eP	16	23.00	-1.2		Z	21s	1.45um				5.4Msz
ILT		58.03	23	eP	13	57.00	-2.0			1.4s	118.00nm			5.7mb		LOMF		87.71	321	P	16	53.97	-0.3
	Z	16s	2.10um			5.3MszX		OHR		81.70	311	eP	16	24.10	-0.1	VITF		87.73	322	P	16	54.03	-0.1
	N	16s	1.40um					MUD		81.77	328	iPd	16	25.20	1.2	MMK		87.73	320	ePc	16	55.50	0.9
	E	16s	1.10um							1.3s	33.00nm			5.2mb		ORX		87.94	319	P	16	54.40	-1.0
			e		28	40.00		BRG		81.91	322	iPc	16	24.80	-0.1	DIX		88.04	320	ePd	16	57.00	0.9
STK		58.48	159	eP	14	22.30	19.7X			1.3s	56.00nm			5.5mb		EKA		88.11	331	Pc	16	56.00	0.1
		1.3s	7.10nm					PRU		81.96	321	P	16	23.20	-2.0			1.5s	97.10nm				5.9mb
ANM		62.71	28	ePc	14	31.10	0.0		Z	15s	2.50um			5.7MszX		PCP		88.16	318	P	16	55.73	-0.7
BFD		63.65	160	ePc	14	37.60	0.1		N	14s	2.50um					EMS		88.33	320	ePd	16	57.90	0.5
TAB		63.66	302	eP	14	38.00	0.1		E	16s	1.50um					LSD		88.52	320	P	16	59.01	0.6
CNB		64.45	154	eP	14	42.80	-0.1	CLL		82.24	323	iPc	16	26.70	0.1	FIN		88.54	318	P	16	57.68	-0.5
TOO		64.98	158	eP	14	46.00	-0.2			1.3s	69.00nm			5.6mb		RSP		88.62	319	P	16	57.37	-1.3
BRW		66.09	21	ePc	14	52.80	-0.1	KHC		82.91	321	iPc	16	31.00	0.8	ROB		88.70	318	P	16	58.39	-0.6
TTA		66.91	30	ePc	14	58.30	-0.1			1.4s	44.00nm			5.4mb		RSL		88.72	320	P	16	59.19	0.0
SVW		67.29	32	ePc	15	01.30	0.5		Z	15s	2.30um			5.7MszX		LPG		88.74	320	eP	17	00.00	0.5
IMA		67.57	26	ePc	15	02.40	-0.2		N	15s	2.00um							0.9s	40.95nm				5.7mb
		0.9s	15.20nm			5.2mb			E	15s	1.70um					LPL		88.74	320	eP	17	00.00	0.6
RSO		68.78	32	P	15	09.50	-0.8	WET		83.31	321	iPc	16	33.00	0.7			0.9s	37.65nm				5.7mb
KEV		69.54	338	iP	15	14.00	-0.5			1.5s	110.00nm			5.8mb		BH8		88.78	319	P	16	59.83	0.5
		0.9s	28.70nm			5.4mb		MOX		83.32	323	iPc	16	32.00	-0.3	IMI		88.89	318	P	16	59.73	-0.2
SLKM		70.00	32	P	15	14.60	-2.9			1.4s	78.00nm			5.7mb		PGF		88.90	316	eP	17	00.60	0.5
SOD		70.16	336	iP	15	18.10	-0.2		Z	15s	2.40um			5.7MszX				1.0s	44.00nm				5.7mb
FBA		70.19	27	ePc	15	18.10	-0.4		N	12s	2.60um					ENR		89.01	318	P	16	58.91	-1.7
		0.9s	99.17nm			5.9mb			E	15s	1.60um					BNI		89.03	319	P	17	01.80	1.1
PMR		70.29	31	ePc	15	18.30	-0.9	HOF		83.33	322	eP	16	33.00	0.6	RRL		89.03	319	P	17	00.75	-0.1
		1.9s	164.30nm			5.8mb				1.2s	54.00nm			5.6mb		PZZ		89.06	319	P	16	57.57	-3.3X
	Z	22s	1.10um			5.1Msz		VBY		83.53	317	ePc	16	34.10	0.7	STV		89.06	318	P	16	58.70	-2.1
TAU		70.38	159	eP	15	21.00	1.1	LJU		83.74	318	ePc	16	35.00	0.5	SBF		89.20	318	eP	17	01.30	-0.1
KAF		71.53	330	iP	15	26.00	-0.7	CEY		83.94	317	ePc	16	35.50	-0.1			1.0s	52.00nm				5.8mb
		0.8s	15.70nm			5.2mb		KBA		83.99	319	iPc	16	36.00	0.0	LOR		89.44	322	eP	17	02.30	-0.1
TOA		71.54	30	ePc	15	27.40	0.5			1.0s	36.80nm			5.6mb				1.2s	32.75nm				5.5mb
KAS		72.40	308	eP	15	33.00	0.6					i	16	45.10	29kmX		Z	20s	2.00um				5.5Msz
NUR		72.72	329	iP	15	33.80	0.0	GRF		84.00	322	iPc	16	36.90	1.1	LBF		89.54	322	iPc	17	02.80	-0.1
		0.9s	47.30nm			5.6mb				1.1s	102.00nm			6.0mb				1.0s	36.00nm				5.6mb
HRI		73.15	299	eP	15	37.50	0.5		Z	21s	15.00um			6.3MszX		SSF		89.76	322	eP	17	03.90	0.0
BBTK		73.56	307	ePc	15	28.00	-11.3X	VOY		84.14	318	ePc	16	36.60	-0.1			1.0s	20.00nm				5.3mb
			i		15	39.00	36kmX	BRT		84.28	312	Pd	16	37.90	0.6	SMF		89.81	322	iPc	17	04.10	0.0
BALM		73.60	30	P	15	37.60	-1.5	YKA		84.31	22	eP	16	36.40	-0.6			1.0s	38.00nm				5.6mb
MML		73.65	299	eP	15	41.00	1.1			0.9s	22.20nm			5.4mb		FRF		89.84	318	iPc	17	04.60	0.3
MBC		74.48	12	ePc	15	42.90	-0.9	FVI		84.56	319	P	16	38.30	-0.3			1.0s	32.00nm				5.5mb
		1.0s	42.00nm			5.4mb		FUR		84.71	320	iPc	16	40.60	1.2	AVF		90.00	322	iPc	17	05.10	0.1
INK		74.56	22	ePc	15	43.30	-1.0			1.1s	227.00nm			6.3mb				1.0s	36.00nm				5.6mb
		1.1s	131.00nm			5.9mb		WIT		84.89	326	eP	16	41.50	1.4	LMR		90.05	318	eP	17	05.30	0.0
RMN		74.88	297	eP	15	47.50	0.4	WTTA		84.93	320	iPc	16	40.80	0.1			1.0s	32.00nm				5.5mb
YLV		75.82	308	eP	15	51.00	-1.2			0.9s	74.40nm			5.9mb		LRG		90.07	318	iPc	17	06.10	0.7
VRI		75.97	314	ePc	15	53.00	0.1					i	16	46.50	18km			1.0s	52.00nm				5.7mb
UPP		76.25	330	iP	15	53.60	-0.5	WTS		85.25	325	eP	16	43.00	1.1		Z	22s	0.98um				5.2Msz
MLR		76.61	314	eP	15	56.50	-0.2			0.9s	15.00nm			5.2mb		BGF		90.42	322	eP	17	07.10	0.1
DST		76.67	307	eP	15	55.00	-2.0	TDS		85.40	311	Pd	16	44.40	1.4			1.0s	12.00nm				5.1mb
EDC		76.98	308	iP	15	58.00	-0.6	AOI		85.47	316	eP	16	43.86	0.6	PNT		90.48	34	ePc	17	08.00	0.8
DAG		77.23	351	iPd	15	58.70	-0.7	CTI		85.51	318	P	16	43.40	-0.1			1.2s	67.00nm				5.8mb
		1.1s	53.16nm			5.5mb		SSO		85.71	315	e(P)	16	45.55	1.1	MAF		90.77	322	eP	17	09.10	0.5
TNR		77.66	314	ePc	16	04.00	1.7	SGO		85.71	312	P	16	43.10	-1.3			1.2s	59.50nm				5.8mb
HFS		77.95	331	eP	16	02.80	-0.7	DUI		85.78	314	P	16	45.90	1.0	LDF		90.84	325	eP	17	08.90	0.1
		0.9s	60.50nm			5.7mb		ALP		85.84	315	eP	16	45.75	0.4			1.3s	36.10nm				5.5mb
	Z	15s	2.56um			5.7MszX		ARV		85.92	316	Pd	16	46.70	1.2	TCF		90.94	322	iPc	17	09.80	0.4
			LR		46	43.00		CIO		85.93	315	eP	16	46.12	0.5			1.0s	28.00nm				5.5mb
DIM		78.06	311	eP	16	05.00	0.5	ABH		85.97	323	eP	16	46.15	0.5	EDM		91.00	29	ePc	17	10.50	0.9
KDZ		78.28	310	eP	16	04.00	-1.8	OSS		86.11	320	ePd	16	47.60	1.0	LSF		91.34	322	iPc	17	11.40	0.2
SIT		78.43	33	eP	16	07.30	1.1	SDI		86.19	314	Pd	16	47.40	0.5			1.0s	16.00nm				5.3mb
		1.1s	92.10nm			5.7mb		SAX		86.30	320	ePd	16	48.30	0.7	GRR		91.35	325	eP	17	11.40	0.2
PLD		78.62	311	iPc	16	08.00	0.4	ASS		86.30	316	P	16	48.30	0.8			1.4s	34.85nm				5.5mb
NB2		78.64	332	P	16	06.50	-0.9	SOI		86.30	310	P	16	48.30	0.9	LPF		91.67	325	eP	17	12.80	0.2
		1.0s	66.20nm			5.6mb		GWF		86.40	322	P	16	48.16	0.4			1.1s	14.65nm				5.3mb
KRA		78.77	320	iPc	16	08.30	0.1	SAL		86.41	318	P	16	48.50	0.7	CAF		91.81	321	eP	17	14.30	0.9
		1.1s	86.00nm			5.7mb		CRE		86.49	316	Pd	16	49.80	1.4			1.4s	39.20nm				5.6mb
			i		16	19.30	36kmX	PGD		86.52	317	Pd	16	50.70	2.1	RJF		91.90	322	iPc	17	14.80	1.0
SPC		78.91	319	iP	16	09.30	0.0	SLE		86.53	321	ePd	16	48.70	0.2			1.1s	63.50nm				5.9mb

12d 06h

	Z 20s	1.10um			5.3Msz	
MFF	92.06	323	eP	17	15.10	0.6
	1.2s	41.65nm			5.7mb	
NEW	92.43	34	P	17	17.00	0.7
	1.0s	37.50nm			5.8mb	
LPO	92.46	321	eP	17	16.90	0.5
	1.4s	26.15nm			5.5mb	
LFF	92.56	322	eP	17	18.00	1.2
	1.3s	43.30nm			5.7mb	
FRB	93.12	4	eP	17	18.00	-1.0
WDC	93.97	43	e(P)	17	24.20	0.8
SES	93.98	30	ePc	17	23.10	-0.3
FFC	94.47	23	eP	17	24.00	-1.5
	1.0s	23.00nm			5.5mb	
ORV	95.22	43	eP	17	29.40	0.2
LRM	96.44	34	eP	17	35.70	0.7
CMB	96.81	44	eP	17	37.00	0.5
FRI	97.86	44	ePd	17	41.30	0.1
TNP	98.77	42	P	17	45.90	0.3
KIC	118.62	292	PKP	22	54.00	-0.6
LIC	118.93	292	PKP	22	54.70	-0.4
	Z 20s	0.43um			5.1Msz	
SOB1	157.08	304	(PKP)	24	03.00	1.2
BAO	166.47	301	ePKP	24	12.30	1.1
ZOBO	169.69	50	PKPc	24	15.80	1.9
	1.2s	15.20nm				
LPB	169.89	51	PKP	24	15.00	1.2
CNCB	170.16	52	PKP	24	17.20	3.0X
			i	25	30.00	
SIV	172.79	9	PKP	24	16.00	1.4
	S.D. = 1.0	on 232 of 250 obs.				

MAR 12, 1991 06h 54m 22.94± 0.88s
23.272 N ± 9.9km 120.015 E ± 7.7km
DEPTH = 10.0km (geophysicist)
3.5mb (1 obs.)
TAIWAN (244)

TWK	0.44	91	iPd	54	31.90	0.1
			eS	54	36.90	
TWM1	0.58	140	iPc	54	35.00	0.3
			eS	54	42.90	
TWG	1.07	115	iPd	54	42.90	-0.2
			eS	54	55.80	
TWF1	1.18	86	iPd	54	44.80	-0.2
			eS	54	59.50	
TWO	1.25	37	iPc	54	47.40	1.2
			eS	55	03.50	
QZH	2.11	322	ePn	55	02.00	3.3X
			Pg	55	05.50	
			Sn	55	31.00	
ANP	2.35	35	eP	55	09.50	7.2X
GZH	6.14	270	P	55	51.00	-4.9X
N	10s	1.30um				
			S	57	06.00	
SSE	7.86	7	eP	56	17.50	-2.5
E	10s	0.50um				
			epP	56	21.50	
NJ2	8.81	354	Pc	56	35.40	2.2
WHN	8.83	326	eP	56	32.20	-1.3
GYA	12.53	287	P	57	24.00	-0.3
			S	59	47.60	
CD2	16.34	301	eP	58	15.50	1.4
BJI	17.03	350	eP	58	27.00	4.3X
YKA	84.22	22	eP	06	55.00	-0.6
	0.6s	0.20nm			3.5mb	
	S.D. = 1.5	on 11 of 15 obs.				

% MAR 12, 1991 07h 00m 44.54± 0.83s
40.761 N ± 5.3km 27.486 E ± 7.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

EDC	0.50	145	iPg	00	54.00	-0.8
			iSg	01	01.00	
BNT	0.52	141	iPg	00	55.50	0.4
CTT	0.81	61	iPg	01	00.90	0.6
KCT	0.84	127	ePg	01	00.40	-0.3
			eSg	01	11.40	
DMK	1.08	11	iPg	01	04.70	-0.1
			iSg	01	18.90	
ISK	1.23	75	ePn	01	07.40	0.0
EZN	1.29	224	ePn	01	08.30	-0.1
DST	1.45	142	ePn	01	12.00	1.2
HRT	1.66	87	ePn	01	13.00	-0.8
	S.D. = 0.7	on 9 of 9 obs.				

* MAR 12, 1991 07h 05m 45.91± 1.78s
23.249 N ± 7.8km 120.075 E ±14.3km
DEPTH = 10.0km (geophysicist)
TAIWAN (244)

TWK	0.38	87	iPd	05	53.90	0.2
TWM1	0.53	143	ePd	05	56.90	0.3
			eS	06	03.70	
TWG	1.01	115	iPc	06	04.80	-0.3
			eS	06	18.50	
TWF1	1.13	85	iPd	06	06.70	-0.3
			eS	06	22.40	
TWO	1.24	34	ePc	06	09.30	0.4
SSE	7.88	7	e(P)	07	43.00	-0.2
			eS	09	11.00	
			Lg	10	00.30	
	S.D. = 0.4	on 6 of 6 obs.				

? MAR 12, 1991 07h 18m 53.68± 2.54s
23.176 N ±10.9km 120.385 E ±21.7km
DEPTH = 10.0km (geophysicist)
TAIWAN (244)

TWK	0.13	46	eP	18	56.90	0.0
TWM1	0.35	174	ePc	19	00.90	0.0
TWG	0.72	119	ePc	19	08.00	0.1
			eS	19	22.10	
TWF1	0.86	78	eP	19	10.10	-0.1
	S.D. = 0.1	on 4 of 4 obs.				

% MAR 12, 1991 07h 23m 23.81± 2.82s
23.242 N ± 7.9km 120.136 E ±21.4km
DEPTH = 10.0km (geophysicist)
TAIWAN (244)

TWK	0.32	86	iPd	23	30.80	0.2
			eS	23	36.20	
TWM1	0.49	147	ePc	23	33.90	0.1
TWG	0.96	116	ePc	23	41.90	-0.1
			eS	23	55.50	
TWF1	1.07	84	ePc	23	43.80	-0.2
TWO	1.21	32	ePd	23	46.40	0.0
	S.D. = 0.3	on 5 of 5 obs.				

* MAR 12, 1991 07h 34m 19.01± 1.13s
46.014 N ±25.7km 153.074 E ±16.5km
DEPTH = 33.0km (normol)
4.6mb (6 obs.)
KURIL ISLANDS (221)

KUSJ	6.65	247	P	35	54.00	-2.9
			S	37	04.40	
ASAJ	7.63	259	eP	36	11.70	1.1
HOOJ	7.91	246	eP	36	13.80	-0.8
			eS	37	39.70	
CN2	19.66	274	eP	38	46.80	-1.1
			pP	38	52.60	23kmX
XAN	35.43	266	iPd	41	14.20	0.2
FBA	36.76	38	(P)	41	25.90	1.2
LZH	37.89	273	iPc	41	35.50	0.7
	1.5s	28.00nm			4.9mb	
GYA	41.53	258	P	42	06.20	1.2
INK	42.29	32	eP	42	11.00	0.5
YKA	51.53	36	eP	43	22.40	-0.9
	0.8s	0.70nm			3.7mb	
CHTO	51.93	257	P	43	27.80	1.0
GUN	55.04	275	P	43	50.00	-0.2
KK	55.53	276	P	43	54.46	0.9
PT	55.58	275	P	43	54.42	0.4
DMN	55.76	276	P	43	55.94	0.7
	0.5s	11.00nm			5.2mb	
GKN	55.84	276	P	43	56.00	0.3
TNP	63.69	62	P	44	48.60	-0.9
WRA	67.81	199	P	45	30.00	14.3X
	1.3s	1.20nm				
UPP	68.38	338	iP	45	17.40	-1.4
NB2	68.92	341	P	45	20.90	-1.4
	0.7s	2.10nm			4.3mb	
HFS	69.14	340	eP	45	21.70	-1.8
	0.4s	2.70nm			4.7mb	
GBA	70.39	269	P	45	32.00	0.2
KOD	72.72	267	eP	45	46.80	0.7
KBA	80.79	333	iP	46	32.60	2.0
	0.7s	5.20nm			4.6mb	
			i	46	34.90	
	S.D. = 1.2	on 23 of 24 obs.				

? MAR 12, 1991 08h 11m 46.41± 1.73s
15.321 N ±25.1km 94.323 W ±12.4km
DEPTH = 82.1 ± 16.9 km
3.1mb (1 obs.)
NEAR COAST OF OAXACA, MEXICO (66)

TPX	2.03	101	(P)	12	19.50	0.1
SCX	2.15	49	eP	12	20.75	-0.2
			iS	12	56.00	
OXX	2.90	308	eP	12	31.00	-0.4
IISM	4.67	322	(P)	12	56.50	0.5
YKA	49.25	348	eP	20	28.20	-0.1
	0.5s	0.10nm			3.1mb	
	S.D. = 0.7	on 5 of 5 obs.				

* MAR 12, 1991 08h 32m 42.48± 1.49s
23.134 N ± 8.1km 120.289 E ±14.3km
DEPTH = 10.0km (geophysicist)
3.5mb (1 obs.)
TAIWAN (244)

TWK	0.23	54	iPd	32	47.20	-0.2
			eS	32	52.40	
TWM1	0.33	158	ePc	32	50.40	1.1
			eS	32	58.40	
TWG	0.79	113	ePc	32	58.20	0.4
			eS	33	12.50	
TWF1	0.95	77	ePc	33	00.10	-0.5
			eS	33	16.20	
ANP	2.33	29	eP	33	27.50	5.9X
SSE	7.97	6	eP	34	42.00	0.9
Z	12s	0.50um				
			Lg	37	01.50	
WRA	44.96	161	P	40	58.00	-1.7
	0.6s	0.40nm			3.5mb	
	S.D. = 1.3	on 6 of 7 obs.				

* MAR 12, 1991 08h 59m 44.83± 1.54s
36.705 N ±13.7km 20.651 E ± 7.8km
DEPTH = 10.0km (geophysicist)
3.6mb (1 obs.)
MEDITERRANEAN SEA (400)
MD 3.9 (ATH).

VLS	1.47	358	ePb	00	13.00	1.6
VLI	1.84	89	ePb	00	15.50	-1.2
AGG	2.67	29	eP	00	31.30	2.7X
KEK	3.08	348	ePn	00	35.00	0.7
LIT	3.69	23	eP	00	42.20	-0.9
KZN	3.70	13	ePb	00	44.00	0.6
SOI	3.91	292	Pd	00	47.10	1.0
FNA	4.11	8	eP	00	50.00	0.9
LCI	4.20	331	P	00	50.40	0.2
OHR	4.40	1	iPn	00	55.30	2.1
TDS	4.50	312	P	01	00.00	5.4X
SOH	4.62	26	eP	00	57.00	0.7
KNT	4.78	21	eP	00	59.40	0.8
VAY	4.85	17	ePn	01	01.70	2.2
BRT	4.96	328	P	01	01.30	0.2
MGR	5.27	312	P	01	06.00	0.5
SKO	5.30	6	ePn	01	05.00	-0.9
ULC	5.36	349	ePn	01	05.00	-1.8
			eSn	02	06.50	
GIB	5.43	286	P	01	08.60	0.7
BDV	5.75	346	eP	01	10.80	-1.4
			eSn	02	15.00	
TTG	5.82	350	ePn	01	12.00	-1.1
			eSn	02	18.00	
HCY	5.97	344	ePn	01	13.50	-1.8
			eSn	02	20.00	
NKY	6.23	349	ePn	01	18.00	-1.1
			eSn	02	27.00	
BRY	6.40	346	ePn	01	19.50	-2.0
			eSn	02	30.20	
HVAR	7.23	335	ePn	01	33.50	0.5
VBY	9.68	337	ePn	02	06.80	-0.3
			eSn	03	52.10	
KBA	11.70	335	e(P)	02	35.00	0.1
			e(S)	04	43.00	
NUR	23.96	5	eP	05	02.00	2.2
NB2	25.08	349	P	05	08.20	-2.5
	0.9s	1.30nm			3.6mb	
	S.D. = 1.4	on 27 of 29 obs.				

& MAR 12, 1991 09h 04m 10.16s
60.022 N 151.664 W
DEPTH = 54.5km

2.7mb (1 obs.)
KENAI PENINSULA, ALASKA (14)
<AEIC>.

NNL	0.19	84	iPd	04	19.77	0.8
HOM	0.37	178	iPd	04	20.19	-0.2
BRLK	0.47	123	iPc	04	21.05	-0.5
			eS	04	29.46	
CNPM	0.54	156	iPd	04	21.69	-0.6
			eS	04	30.82	
XLV	0.57	183	iPd	04	21.50	-1.1
			eS	04	30.62	
RDT	0.67	327	iPd	04	23.17	-0.7
			eS	04	33.42	
RED	0.68	306	iPd	04	23.38	-0.7
			eS	04	33.67	
REF	0.70	313	iPd	04	23.79	-0.6
RSO	0.70	310	iPd	04	23.84	-0.6
RS2	0.70	310	iPd	04	23.89	-0.6
RDN	0.74	312	iPd	04	24.08	-0.8
			iS	04	35.03	
NKA	0.75	16	eP	04	26.47	1.6
NCT	0.83	311	iPd	04	25.46	-0.6
			S	04	37.66	
SLKM	0.87	55	ePc	04	25.74	-0.7
			eS	04	38.34	
AUE	1.09	233	eP	04	28.50	-0.9
SEW	1.11	85	eP	04	29.63	-0.1
AUH	1.12	235	eP	04	29.52	-0.3
AUI	1.13	233	ePd	04	29.24	-0.7
			eS	04	44.02	
SPU	1.18	351	iPd	04	30.27	-0.4
CKL	1.22	345	iPd	04	30.95	-0.4
CRP	1.27	349	ePd	04	31.94	-0.1
BGL	1.30	344	ePd	04	32.17	-0.2
PDB	1.30	261	iPc	04	31.14	-1.1
			eS	04	47.65	
NCG	1.41	350	ePd	04	33.80	-0.1
SYI	1.46	195	eP	04	34.19	-0.4
CDD	1.49	224	ePc	04	34.24	-0.8
			eS	04	53.00	
SUA	1.52	17	ePd	04	35.83	0.4
MCNL	1.60	239	ePc	04	35.11	-1.4
			eS	04	54.43	
PMS	1.61	39	eP	04	36.91	0.3
PWA	1.85	27	eP	04	40.28	0.3
LTI	1.91	88	eP	04	39.72	-1.1
SKT	1.97	2	ePd	04	42.04	0.4
			eS	05	06.65	
KNIM	1.99	79	eP	04	40.00	-2.0
PLRM	2.01	37	ePd	04	41.61	-0.5
PMR	2.01	37	eP	04	41.40	-0.8
MTU	2.02	89	eP	04	41.09	-1.2
KNK	2.11	47	ePc	04	43.07	-0.5
GHO	2.21	36	eP	04	44.58	-0.5
SVW	2.24	301	eP	04	43.70	-1.8
GLI	2.42	67	eP	04	45.62	-2.4
CUT	2.48	15	eP	04	48.65	-0.3
VZW	2.73	65	eP	04	50.54	-2.0
VLZ	2.86	65	eP	04	51.74	-2.5
KLU	3.18	60	iPc	04	57.33	-1.6
TOA	3.39	50	eP	05	01.20	-0.7
TTA	3.59	326	eP	05	03.00	-1.6
RND	3.65	20	eP	05	05.21	-0.3
SDG	3.88	47	eP	05	08.29	-0.4
GLB	4.11	66	eP	05	09.03	-3.0
FBA	5.21	18	eP	05	25.80	-1.7
YKA	17.83	66	eP	08	13.60	-2.0
	0.6s		0.40nm			2.7mb

51 obs. ossociated

• MAR 12, 1991 09h 43m 10.07± 0.87s
37.852 N ± 7.7km 29.863 E ± 8.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

KHL	0.54	330	iPg	43	20.20	-0.8
			iSg	43	27.20	
BCK	0.70	124	iPg	43	23.50	-0.4
			iSg	43	36.00	
ALT	1.22	9	iPn	43	33.60	0.8
CIN	1.43	260	eP	43	36.00	0.0
YER	1.45	241	ePn	43	36.80	0.5

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

? MAR 12, 1991 09h 46m 28.34± 5.28s
33.261 S ±10.0km 72.284 W ±38.4km
DEPTH = 10.0km (geophysicist)
OFF COAST OF CENTRAL CHILE (134)

IHA	0.59	67	iPc	46	40.60	0.4
			iS	46	48.80	
LCCH	0.63	110	iPd	46	41.50	0.4
			iS	46	50.10	
LNV	1.01	134	iPd	46	47.50	0.2
			iS	47	02.00	
ROCH	1.11	75	iPd	46	49.00	-0.3
			iS	47	03.50	
TACH	1.19	110	iPd	46	50.00	-0.6
			iS	47	06.50	
PEL	1.35	85	iPd	46	53.30	0.2
			iS	47	11.00	
PCH	1.52	104	iP	46	55.60	-0.1
			iS	47	15.60	
			i	47	16.60	
JACH	1.53	68	iPd	46	55.70	-0.2
			iS	47	16.00	

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

MAR 12, 1991 10h 21m 48.98± 0.43s
40.775 N ± 4.5km 27.604 E ± 4.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
Felt at Sarkoy.

EDC	0.47	155	iPg	21	58.00	-0.6
BNT	0.48	150	iPg	21	57.30	-1.5
			iSg	22	05.30	
CTT	0.73	59	iPg	22	03.80	0.5
KCT	0.78	132	iPg	22	04.30	0.1
			iSg	22	16.30	
DMK	1.05	6	iPg	22	08.00	-0.8
			iSg	22	22.00	
ITU	1.12	72	ePg	22	11.00	1.1
			iSg	22	28.00	
ISK	1.14	75	iPn	22	10.80	0.5
YLV	1.36	98	iPn	22	13.40	-0.6
EZN	1.36	226	iPn	22	12.00	-2.0
GBZT	1.40	89	ePn	22	14.50	0.0
			iSg	22	36.50	
DST	1.41	146	ePn	22	15.00	0.3
IZI	1.49	106	iPn	22	15.80	-0.1
HRT	1.57	88	iPn	22	16.80	-0.1
JMB	1.86	336	iPc	22	23.00	1.9
			iSg	22	47.00	
KDZ	1.87	299	eP	22	22.00	0.7
			iSg	22	46.00	
DIM	2.01	310	ePg	22	24.00	0.7
			eSg	22	48.00	
IZM	2.39	186	ePn	22	30.00	1.2
PLD	2.55	302	eP	22	31.00	-0.1
			eS	23	04.00	
ALT	2.58	131	ePn	22	34.00	2.4X
KHL	2.86	148	ePn	22	37.00	1.4
PVL	2.97	326	eP	22	35.00	-1.9
MMB	3.04	287	eP	22	40.00	2.0
			eS	23	21.00	
PGB	3.13	306	iPg	22	44.00	4.7X
			eS	23	22.00	
VTS	3.76	300	eP	22	56.00	7.6X
MLR	4.87	346	eP	23	03.00	-1.1
VRI	5.13	353	eP	23	06.00	-1.7

S.D. = 1.2 on 23 of 26 obs.

? MAR 12, 1991 10h 40m 53.04± 2.01s
27.663 S ± 9.5km 114.303 E ±26.3km
DEPTH = 33.0km (normol)
WESTERN AUSTRALIA (590)

BAL	3.61	145	eP	41	49.00	1.0
			eS	42	27.20	
MEKA	3.91	75	eP	41	52.00	-0.3
	0.3s		4.00nm			
			eS	42	36.50	
MUN	4.61	159	eP	42	01.40	-0.8
			eS	42	50.00	
NANU	5.20	13	eP	42	10.70	0.1
			eS	43	05.70	
WARB	11.11	85	eP	43	27.80	-4.9X
	0.3s		1.00nm			4.5mb
			eS	45	21.00	
MNG	51.32	121	eP	50	07.90	11.7X

S.D. = 1.3 on 4 of 6 obs.

• MAR 12, 1991 11h 22m 13.93± 0.63s
23.230 N ± 7.7km 120.057 E ± 6.1km
DEPTH = 10.0km (geophysicist)
3.6mb (3 obs.)
TAIWAN (244)

TWK	0.40	85	iPc	22	21.80	-0.3
			eS	22	26.50	
TWM1	0.53	140	ePc	22	25.00	0.4
			eS	22	31.50	
TWG	1.02	113	ePc	22	32.80	-0.4
			eS	22	46.10	
TWF1	1.15	84	iPc	22	34.70	-0.7
			eS	22	49.40	
TWQ	1.26	34	iPc	22	37.10	-0.3
			eS	22	53.90	
TWD	1.64	59	ePd	22	43.30	0.3
TWC	2.14	50	eP	22	50.50	0.4
QZH	2.17	322	ePn	22	52.20	1.6
			Pg	22	55.50	
			Sn	23	20.60	
ANP	2.36	34	eP	22	54.30	0.9
GZH	6.18	270	P	23	45.00	-2.4
			eS	25	03.20	
SSE	7.90	7	eP	24	11.30	-0.2
Z	12s		0.50um			
E	10s		0.60um			
			epP	24	15.00	
NJ2	8.85	353	Pc	24	22.00	-2.8
GYA	12.58	288	P	25	13.80	-2.1
			pP	25	21.20	
			sP	25	24.00	
			S	27	37.60	
CD2	16.40	301	eP	26	08.00	2.2
N	10s		0.70um			
LZH	19.01	316	eP	26	52.50	14.1X
	2.0s		29.00nm			
			Lg	32	05.00	
CHTO	20.19	261	P	26	54.00	2.4
WRA	45.12	161	P	30	32.00	-0.4
	1.2s		0.80nm			3.5mb
WB2	45.12	161	iPc	30	32.30	-0.1
	2.1s		1.10nm			3.4mb
FBA	70.12	27	(P)	33	29.50	1.4
INK	74.49	22	eP	33	56.00	2.0
YKA	84.24	22	eP	34	45.00	-1.7
	0.7s		0.40nm			3.8mb

S.D. = 1.6 on 20 of 21 obs.

? MAR 12, 1991 11h 38m 30.84± 0.88s
43.094 N ±10.0km 0.519 W ± 6.5km
DEPTH = 5.0km (geophysicist)
PYRENEES (378)
MD 1.0 (STR).

ESCF	0.04	249	Pg	38	32.41	0.1
			Sg	38	33.58	
OGE	0.08	24	Pg	38	32.80	0.0
			Sg	38	34.28	
JAU	0.12	117	Pg	38	33.50	0.0
			Sg	38	34.87	
ATE	0.14	267	Pg	38	33.51	-0.2
			Sg	38	36.55	

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

• MAR 12, 1991 12h 16m 30.02± 0.73s
17.613 N ±14.9km 94.823 W ± 9.4km
DEPTH = 135.7 ± 14.7 km
3.5mb (1 obs.)
CHIAPAS, MEXICO (61)

OXX	1.89	254	iPd	17	01.50	-2.1
			iS	17	26.00	
SCX	2.27	112	iP	17	07.50	-0.5
			iS	17	35.75	
LVVM	2.62	324	iP	17	11.50	-0.9
			iS	17	45.50	
IISM	2.78	300	iP	17	14.25	-0.4
			(S)	17	57.50	
IIT	3.59	293	iP	17	26.50	0.9
			iS	18	07.00	
TPX	3.65	137	iP	17	27.37	1.4
			(S)	17	56.50	
PPM	3.89	292	iP	17	30.75	1.0
			iS	18	14.87	
IIA	3.95	293	iP	17	31.52	1.5
			(S)	18	04.02	

12d 12h

III	4.48	280	iP	17 36.25	-1.2
			(S)	18 21.50	
ACX	4.87	262	iP	17 42.00	-0.4
			iS	18 41.50	
CRX	4.94	292	eP	17 44.50	0.8
MRX	6.39	290	eP	18 04.00	1.0
GOL	23.84	340	P	21 32.00	-0.1
YKA	46.92	348	eP	24 47.30	-1.0
	0.6s		0.70nm		3.5mb
	S.D. = 1.3		on 14 of 14 obs.		

% MAR 12, 1991 12h 34m 26.62± 1.20s
31.187 S ±20.1km 67.610 W ± 9.9km
DEPTH = 33.0km (normal)
SAN JUAN PROVINCE, ARGENTINA (137)

CFA	0.68	232	eP	34 41.20	1.4
			eS	34 48.60	
RTLL	0.75	259	eP	34 38.90	-1.9
			eS	34 50.00	
RTCB	1.06	253	ePc	34 45.20	-0.1
RTRS	1.89	302	iPd	34 57.90	0.8
TCA	2.59	94	ePd	35 07.00	-0.2
	S.D. = 1.7		on 5 of 5 obs.		

& MAR 12, 1991 12h 43m 51.17s
64.480 N 147.223 W
DEPTH = 17.3km
CENTRAL ALASKA (1)
<AEIC>. ML 3.6 (PMR).

HDA	0.14	122	iPd	43 55.07	-0.2
CCB	0.30	304	iPc	43 57.54	-0.2
WRH	0.38	269	iPc	43 58.83	-0.2
FBA	0.49	330	iPc	44 01.60	0.7
GLM	0.51	352	iPd	44 01.45	0.0
			eS	44 08.56	
RDS	0.53	312	iPc	44 01.61	0.0
			eS	44 08.64	
MDM	0.65	319	iPc	44 03.73	0.1
NEA	0.81	278	iPc	44 06.34	0.0
			eS	44 17.19	
DDM	0.92	139	iPc	44 08.10	-0.2
			eS	44 20.10	
BWN	1.02	253	ePc	44 08.33	-1.7
MCK	1.06	226	ePc	44 10.65	-0.1
			eS	44 24.84	
THY	1.25	148	ePc	44 14.14	0.3
			eS	44 30.20	
RND	1.30	214	ePc	44 14.04	-0.5
			iS	44 31.29	
DOT	1.62	120	ePc	44 17.17	-1.9
			S	44 39.17	
TRF	1.70	234	eP	44 20.12	-0.3
			eS	44 43.16	
PAX	1.70	152	ePc	44 19.54	-0.8
			eS	44 43.32	
HUR	1.85	217	eP	44 24.17	1.7
			eS	44 47.59	
SDG	2.10	158	ePc	44 25.40	-0.7
			eS	44 52.00	
TMW	2.20	120	eP	44 25.09	-2.4
			eS	44 53.69	
TOA	2.43	168	eP	44 32.30	1.5
CUT	2.49	215	eP	44 30.80	-0.8
TZL	2.58	161	eP	44 32.53	-0.3
GHO	2.83	197	eP	44 38.66	2.2
PLRM	3.03	198	eP	44 41.07	2.0
PMR	3.03	198	eP	44 42.20	3.1
KLU	3.06	168	eP	44 40.29	0.6
PWA	3.09	204	eP	44 41.03	1.1
KNK	3.13	191	eP	44 42.29	1.6
IMA	3.15	303	eP	44 41.10	0.1
SKT	3.18	220	eP	44 40.79	-0.5
GLB	3.42	151	eP	44 46.06	1.2
TTA	4.21	252	eP	45 09.00	13.0
SVW	5.13	233	eP	45 19.90	10.9
INK	6.70	49	P	45 29.00	-2.1
	0.4s		2.10nm		4.5mb X
YKA	14.61	83	eP	47 18.20	-0.3
	0.3s		0.10nm		2.8mb
	35 obs. associated				

MAR 12, 1991 13h 15m 21.69± 0.35s
46.283 N ± 3.7km 2.765 E ± 3.2km
DEPTH = 10.0km (geophysicist)
FRANCE (538)

ML 2.2 (LDG). MD 2.2 (STR).

MAF	0.15	246	Pg	15 25.20	0.0
			Sg	15 29.40	
BGF	0.28	12	Pg	15 28.10	0.5
			Sg	15 32.20	
AGO	0.34	132	Pg	15 29.25	0.5
			Sg	15 34.15	
TCF	0.38	271	Pg	15 30.00	0.4
			Sg	15 35.40	
AVF	0.65	38	Pg	15 34.20	-0.5
			Sg	15 42.60	
PLDF	0.67	117	Pg	15 35.00	-0.1
			Sg	15 43.90	
SMF	0.83	64	Pg	15 37.40	-0.3
			Sg	15 48.00	
LSF	0.86	268	Pg	15 37.90	-0.3
			Sg	15 48.80	
SSF	0.93	33	Pg	15 39.20	-0.3
			Sg	15 51.20	
LBF	1.09	50	Pg	15 42.30	0.1
			Sg	15 55.80	
LOR	1.24	37	Pg	15 45.00	0.3
			Sg	16 00.00	
RJF	1.31	222	Pg	15 45.60	-0.3
			Sg	16 02.60	
CAF	1.44	200	Pg	15 48.00	0.1
			Sg	16 06.60	
	S.D. = 0.4		on 13 of 13 obs.		

MAR 12, 1991 13h 41m 29.94± 0.55s
3.337 S ± 5.1km 75.653 W ± 5.0km
DEPTH = 135.0 ± 4.8 km
4.7mb (28 obs.)
NORTHERN PERU (111)
MD 4.9 (QUI).

TUNG	3.38	304	P	42 21 80	-0.9
			S	42 53.40	
ANGL	3.48	327	P	42 38.00	13.9X
VC1	3.84	314	P	42 29.60	0.6
			eS	43 02.30	
CAYA	4.12	326	iP+	42 40.00	7.3X
			eS	43 06.50	
QTO	4.24	317	eP	42 35.10	0.9
			eS	43 10.60	
OUR	4.26	318	eP	42 34.80	0.3
			eS	43 09.70	
YANA	4.33	318	iPd	42 35.70	0.2
COTA	4.53	324	P	42 38.20	0.0
			eS	43 18.00	
SDV	13.13	22	eP	44 33.10	0.4
ARE	13.67	163	eP	44 45.00	5.3X
TOV	14.29	24	eP	44 48.20	0.9
CEOS	14.29	31	iP	44 46.60	-0.8
ZOBO	14.83	151	P	44 53.00	-1.7
LPB	15.07	151	P	44 57.00	-0.6
CNCB	15.36	151	P	45 05.00	3.6X
MORO	15.89	27	iP	45 08.60	1.1
OLLA	15.93	34	iP	45 08.90	0.9
CCH	16.79	147	P	45 19.50	0.7
SIV	19.08	132	P	45 44.80	0.1
SOB1	35.02	101	eP	48 11.60	-0.1
FVM	43.33	343	P	49 17.80	-2.4
	0.6s		44.21nm		5.3mb
RSNY	47.68	1	P	49 52.20	-2.3
	0.8s		20.03nm		4.9mb
ALQ	47.82	325	eP	49 56.00	0.0
	0.8s		12.13nm		4.7mb
			e	50 25.00	
GOL	50.79	330	P	50 17.80	-0.9
	0.7s		2.18nm		4.1mb
TPC	53.23	318	eP	50 37.00	0.3
GSC	54.44	319	eP	50 46.00	0.4
MWC	54.66	317	eP	50 48.00	0.6
SBB	54.76	317	eP	50 48.00	0.0
BW06	55.18	330	P	50 49.80	-1.3
CLC	55.26	319	eP	50 51.00	-0.5
ISA	55.76	318	eP	50 55.00	-0.1
TNP	56.36	321	P	50 59.20	-0.4
	0.6s		2.04nm		4.3mb
SCH	58.42	6	eP	51 12.00	-1.4
LRM	58.82	331	eP	51 16.00	-0.7
SES	61.54	335	iPd	51 33.90	-1.0
PNT	64.75	330	eP	51 56.00	0.1
LKO	70.96	79	Pd	52 34.64	-0.6
	0.5s		10.50nm		4.9mb
LIC	71.15	82	Pd	52 36.00	-0.3
TIC	71.20	82	P	52 36.06	-0.6
KIC	71.45	82	Pd	52 38.02	-0.1
	0.5s		23.00nm		5.2mb
YKA	71.99	342	eP	52 38.80	-1.6
	0.5s		2.60nm		4.2mb
INK	81.74	341	ePd	53 34.70	0.4
EPF	82.08	46	eP	53 37.40	0.7
	0.5s		3.65nm		4.4mb
LPF	82.24	41	eP	53 37.30	-0.1
	0.5s		3.65nm		4.4mb
GRR	82.45	40	eP	53 38.30	-0.1
	0.8s		16.10nm		4.9mb
MFF	82.51	42	eP	53 39.00	0.2
	0.4s		5.75nm		4.7mb
LFF	82.76	44	eP	53 40.40	0.3
	0.5s		13.10nm		5.0mb
FLN	82.78	40	eP	53 40.20	0.1
	0.5s		5.85nm		4.7mb
LDF	82.97	40	eP	53 41.10	0.0
	0.8s		17.45nm		5.0mb
LPO	83.01	44	eP	53 41.70	0.3
	0.5s		8.75nm		4.9mb
MBC	83.30	350	ePd	53 43.00	0.7
	0.6s		11.00nm		4.9mb
RJF	83.37	44	eP	53 43.20	0.0
	0.8s		8.05nm		4.6mb
CAF	83.67	44	eP	53 45.00	0.2
	0.8s		8.05nm		4.6mb
TOA	83.94	334	ePd	53 47.30	1.5
TCF	84.04	43	eP	53 46.60	0.0
	0.6s		4.50nm		4.5mb
MAF	84.27	43	eP	53 47.70	0.0
	0.8s		8.05nm		4.6mb
BGF	84.52	43	eP	53 49.00	0.0
	0.9s		18.00nm		4.9mb
AVF	84.90	43	eP	53 50.80	-0.1
	0.5s		8.75nm		4.9mb
SSF	85.06	42	eP	53 51.30	-0.3
	0.7s		5.50nm		4.5mb
PMR	85.12	333	eP	53 52.30	0.7
SMF	85.21	43	eP	53 52.50	0.1
	0.5s		8.75nm		4.9mb
LOR	85.33	42	eP	53 52.70	-0.3
	0.5s		4.35nm		4.6mb
LBF	85.36	43	eP	53 53.20	0.0
FBA	85.51	336	P	53 54.00	0.5
DOU	86.29	39	P	53 57.80	0.1
CDF	87.78	41	eP	54 04.60	-0.4
	0.7s		5.50nm		4.7mb
SVW	88.06	331	eP	54 06.10	0.1
IMA	88.18	336	ePd	54 07.60	0.9
	0.6s		4.80nm		4.7mb
ASPA	140.64	225	ePKP	00 39.10	-6.9X
	0.4s		4.00nm		
			i	01 16.30	
WB2	142.53	231	iPKPc	00 44.90	-4.5X
	0.4s		4.70nm		
			epP	01 22.30	
WRA	142.54	231	PKP	00 52.00	2.6
	0.4s		2.30nm		
GTA	143.86	6	ePKP	00 48.60	-2.7
TIY	144.99	349	PKPd	00 52.80	-0.4
LZH	147.41	1	iPKPd	01 00.80	3.5X
SSE	148.15	332	PKP	01 01.80	3.4X
NJ2	148.35	336	PKPc	01 02.00	3.3X
GKN	149.10	35	PKP	01 01.60	1.4
XAN	149.16	353	PKPc	01 01.00	1.0
KKN	149.63	35	PKP	01 02.14	1.0
DMN	149.67	35	PKP	01 02.14	0.9
PKI	149.87	35	PKP	01 02.04	0.4
GUN	149.87	34	PKP	01 02.44	0.8
HYB	151.09	59	ePKP	01 04.30	1.0
			e	01 45.50	
GBA	151.53	67	PKP	01 11.30	7.4X
KOD	152.46	74	ePKP	01 14.40	8.6X
	S.D. = 0.9		on 74 of 85 obs.		

MAR 12, 1991 15h 10m 00.29± 0.49s
35.350 N ± 6.3km 31.162 E ± 7.3km
DEPTH = 53.2 ± 17.4 km
CYPRUS (372)
MD 3.8 (HLW).

PPCY	1.08	115	eP	10 20.00	0.7
ELL	1.73	324	iPn	10 31.00	2.5
CSS	1.82	102	eP	10 29.70	0.0

			e(Sn)	10	58.50	
BCK	2.16	348	iPn	10	35.50	1.0
FAM	2.35	98	e(P)	10	43.50	6.3X
YER	2.93	308	iPn	10	45.80	0.3
KHL	3.25	337	ePn	10	47.80	-2.2
CIN	3.34	313	eP	10	51.00	-0.3
ALT	3.79	348	ePn	10	57.80	0.1
ADI	4.06	123	eP	11	02.00	0.6
ATZ	4.24	125	eP	11	04.70	0.7
			eS	11	49.90	
IZM	4.36	315	ePn	11	04.10	-1.6
ZNT	4.47	133	eP	11	07.00	-0.2
			eS	11	55.00	
MML	4.58	128	eP	11	08.70	0.0
DSI	5.16	136	eP	11	16.50	-0.4
GAZ	5.22	68	iPn	11	16.60	-1.1
KOT	5.43	174	ePn	11	20.00	-0.7
			eSn	12	07.50	
HLW	5.48	178	eP	11	21.50	0.2
			e	12	07.00	
PRNI	5.94	146	eP	11	27.90	0.0
KHC	18.89	322	P	14	19.50	0.5
MOX	20.83	323	eP	14	40.00	0.4
S.D. = 1.1			on	20	of 21	obs.

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* MAR 12, 1991 16h 26m 24.81± 1.76s
31.568 S ±13.0km 69.359 W ±10.6km
DEPTH = 129.4 ± 19.1 km
SAN JUAN PROVINCE, ARGENTINA (137)

RTCB	0.48	80	iPd	26	43.80	-0.3
			eS	27	55.80	
ZON	0.58	88	iPd	26	45.00	0.4
			eS	26	59.00	
RTLL	0.80	73	iPc	26	45.80	-0.4
CFA	0.96	93	iPc	26	47.90	0.3
			eS	27	04.50	
RTRS	1.40	356	iPc	26	52.10	0.1
			eS	27	11.80	
JACH	1.53	223	iP	26	53.60	0.0
			iS	27	15.50	
TCA	4.08	88	ePd	27	26.50	-0.1
S.D. = 0.4			on	7	of 7	obs.

? MAR 12, 1991 16h 36m 31.36± 1.16s
40.655 N ±11.4km 29.076 E ± 9.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YLV	0.24	111	iPg	36	36.60	0.0
			iSg	36	41.10	
IZI	0.44	136	iPg	36	40.30	0.0
			eSg	36	46.60	
HRT	0.48	69	iPg	36	41.10	0.0
CTT	0.69	315	iPg	36	45.10	0.0
			eSg	36	55.10	
S.D. = 0.0			on	4	of 4	obs.

? MAR 12, 1991 17h 22m 17.30± 0.82s
60.952 N ±17.0km 166.928 E ±24.7km
DEPTH = 33.0km (normal)
4.3mb (5 obs.)
EASTERN SIBERIA (671)

YKA	35.08	52	eP	29	08.70	0.0
	0.7s		1.30nm			4.0mb
NB2	56.91	346	P	32	01.20	0.3
	0.6s		2.60nm			4.4mb
HFS	57.48	344	eP	32	04.50	-0.3
	0.6s		2.80nm			4.5mb
WB2	84.78	211	iPd	34	49.20	0.1
	0.6s		1.60nm			4.4mb
WRA	84.78	211	P	34	49.00	-0.1
	1.6s		1.10nm			3.8mb
S.D. = 0.3			on	5	of 5	obs.

? MAR 12, 1991 17h 24m 32.11± 1.02s
42.846 N ± 7.7km 13.115 E ±10.0km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ALP	0.35	101	iPg	24	39.16	-0.1
CIO	0.35	3	iPg	24	40.27	0.9
			iSg	24	46.19	
ASS	0.40	304	P	24	37.20	-3.2X
			eSg	24	40.60	
MNS	0.56	215	P	24	43.70	0.2
			eSg	24	50.30	
ARV	0.66	349	P	24	44.40	-0.9
			eSg	24	54.10	
S.D. = 1.3			on	4	of 5	obs.

? MAR 12, 1991 18h 31m 42.60± 0.86s
61.055 N ±18.9km 166.928 E ±22.2km
DEPTH = 33.0km (normal)
4.3mb (5 obs.)
EASTERN SIBERIA (671)

INK	25.48	48	eP	37	10.00	1.2
YKA	35.02	52	eP	38	32.20	-1.3
	0.7s		0.60nm			3.6mb
NB2	56.81	346	P	41	25.80	0.3
	0.7s		2.40nm			4.3mb
HFS	57.38	344	eP	41	29.00	-0.4
	0.8s		3.90nm			4.5mb
WB2	84.87	211	iPd	44	14.80	0.0
	0.6s		1.60nm			4.4mb
WRA	84.87	211	P	44	15.00	0.2
	0.7s		1.60nm			4.3mb
S.D. = 1.1			on	6	of 6	obs.

MAR 12, 1991 19h 16m 47.75± 0.64s
23.051 N ± 8.1km 120.091 E ± 6.2km
DEPTH = 10.0km (geophysicist)
3.9mb (5 obs.)
TAIWAN (244)

TWM1	0.38	126	ePc	16	59.50	3.9X
			eS	17	06.80	
TWK	0.42	60	iPd	16	56.60	0.2
			eS	17	01.50	
TWG	0.93	104	iPd	17	07.60	2.1
TWF1	1.15	75	ePc	17	09.60	0.3
			eS	17	24.60	
TWO	1.40	29	ePc	17	12.30	-1.0
			eS	17	29.20	
TWD	1.72	53	iPc	17	18.10	0.3
			eS	17	39.90	
QZH	2.33	324	ePn	17	28.00	1.3
			Sn	17	57.00	
GZH	6.21	272	P	18	20.00	-1.7
			S	19	29.00	
SSE	8.07	7	Pc	18	46.20	-1.6
Z	12s		1.40um			
E	10s		1.30um			
NJ2	9.03	353	Pd	18	59.60	-1.5
Z	16s		0.60um			
E	10s		1.00um			
			S	20	43.40	
WHN	9.05	327	P	19	01.00	-0.4
E	11s		1.80um			
QIZ	10.37	249	eP	19	21.40	1.7
N	15s		1.10um			
E	14s		0.90um			
GYA	12.66	288	P	19	49.00	-1.9
			pP	19	57.00	
			S	22	13.60	
TIY	16.03	337	eP	20	37.50	2.6
Z	14s		1.10um			
CD2	16.52	302	eP	20	48.00	6.8X
Z	12s		1.00um			
BJI	17.26	350	eP	20	54.00	3.6X
	1.2s		14.00nm			4.0mb
Z	12s		0.36um			4.6MszX
N	10s		0.32um			
HHC	19.14	340	eP	21	17.60	3.8X
N	12s		0.60um			
LZH	19.16	316	eP	21	16.00	1.9
Z	12s		0.50um			
N	10s		0.48um			
CHTO	20.19	262	P	21	27.20	1.7
WRA	44.94	161	iPd	25	03.50	-1.3
	1.3s		2.20nm			3.9mb
			epP	25	16.80	50kmX
WB2	44.94	161	iPd	25	03.50	-1.3
	1.3s		2.20nm			3.9mb
			epP	25	16.80	50kmX
ASPA	48.34	163	iPd	25	31.20	-0.4
	0.9s		3.00nm			4.4mb
YKA	84.40	22	eP	29	20.30	-1.0
	0.6s		0.30nm			3.7mb
S.D. = 1.6			on	19	of 23	obs.

MAR 12, 1991 19h 43m 26.12± 0.17s
60.833 N ± 4.0km 167.077 E ± 2.3km
DEPTH = 33.0km (normal)
5.3mb (72 obs.) 4.5Msz (8 obs.)
EASTERN SIBERIA (671)

KLY	5.57	218	eP	44	53.50	4.7X
SMY	8.99	152	eP	45	32.20	-4.3X
ILT	9.37	35	eP	45	44.50	2.7
	0.7s		68.00nm			6.0mb
Z	12s		13.00um			4.3Msz
E	12s		10.00um			
			eS	47	21.00	
ADK	12.67	128	P	46	25.00	-1.5
ANM	13.13	62	eP	46	30.30	-2.3
TTA	17.37	67	eP	47	28.60	1.3
	1.4s		188.60nm			5.0mb
BRW	17.68	39	eP	47	33.70	2.7
SDN	17.87	93	eP	47	34.70	1.3
SVW	17.95	73	eP	47	35.40	1.0
IMA	18.06	56	ePc	47	36.90	1.0
	1.3s		178.20nm			5.0mb
PDB	19.03	76	P	47	46.00	-1.6
FBA	20.62	59	eP	48	04.60	-0.1
	1.1s		761.88nm			6.0mb
PMR	20.81	69	eP	48	05.20	-1.5
	1.2s		35.80nm			4.6mb
TOA	21.99	66	ePc	48	19.60	0.9
KLU	22.30	68	P	48	21.00	-0.8
INK	25.58	48	eP	48	53.00	-0.2
	1.0s		85.00nm			5.3mb
MDJ	27.40	251	eP	49	05.00	-5.1X
Z	18s		2.30um			4.8Msz
N	10s		1.50um			
MBC	28.40	29	eP	49	18.50	-0.4
	1.0s		9.00nm			4.4mb
SIT	29.12	71	eP	49	26.80	1.3
CN2	29.95	254	Pc	49	33.80	0.7
	1.0s		10.00nm			4.6mb
Z	15s		4.00um			5.2MszX
N	10s		0.80um			
E	10s		0.80um			
			epP	49	45.00	41kmX
			eS	54	30.00	
MAT	30.42	230	eP	49	36.00	-1.3
	1.1s		15.19nm			4.7mb
			eS	54	44.00	
CHJJ	30.57	229	P	49	39.10	0.5
SNY	32.35	254	eP	49	54.60	0.5
Z	18s		1.43um			4.7Msz
N	15s		1.51um			
E	11s		0.97um			
			S	55	05.00	
YKA	35.10	52	eP	50	16.30	-1.4
	1.0s		21.60nm			5.0mb
BJI	37.27	260	eP	50	37.00	0.8
	1.1s		52.00nm			5.3mb
Z	12s		1.44um			5.0MszX
N	11s		1.15um			
HHC	38.88	265	P	50	51.00	1.1
Z	12s		2.00um			5.2MszX
N	10s		0.80um			
			S	56	41.00	
BTO	39.83	266	eP	50	58.00	0.2
N	14s		1.10um			
E	14s		1.40um			
			epP	51	02.10	14kmX
TIY	40.90	261	Pc	51	07.80	1.3
GMW	41.06	76	P	51	08.70	1.0
PNT	41.30	72	iP	51	10.00	0.4
	1.0s		55.00nm			5.2mb
EDM	41.42	63	eP	51	11.50	0.9
RMW	41.59	75	P	51	13.00	0.9
BMW	41.62	77	P	51	13.30	1.0
LON	42.10	76	P	51	17.00	0.8
VGB	43.49	77	P	51	28.30	0.7
SES	44.43	65	ePc	51	35.30	0.2
	1.2s		190.00nm			5.8mb
FFC	45.14	55	iPc	51	40.50	-0.2
	1.1s		72.00nm			5.5mb
XAN	45.54	261	P	51	44.50	0.3
N	12s		1.30um			
E	11s		0.80um			
GTA	45.74	274	P	51	46.00	0.2
	1.0s		20.00nm			5.0mb
Z	10s		2.00um			5.4MszX
LBFM	46.08	81	P	51	49.00	0.4
WDC	46.36	82	eP	51	50.80	0.3

12d 19h

LZH		46.37	268	P	51	51.00	0.1				i	54	14.10			Z	21s	0.22um			4.4Msz
		1.5s		88.00nm			5.5mb				e	56	35.20		VDL		71.50	344	ePc	54	45.50	0.3
	N	10s		0.82um				CLL	66.29	343	iPc	54	12.20	-0.5	VBY		71.57	340	e(P)	54	45.70	0.3
	E	12s		1.07um					1.4s		51.00nm			5.4mb	SSF		71.64	348	eP	54	45.40	-0.4
				pP	51	59.50	28kmX				i	54	14.90				1.2s		44.65nm			5.4mb
				sP	52	02.50		KRA	66.34	338	eP	54	12.40	-0.6	LBF		71.67	348	eP	54	45.80	-0.2
KEV		46.64	342	eP	51	51.00	-1.3		1.2s		58.00nm			5.6mb			1.2s		29.75nm			5.2mb
MIN		46.99	82	eP	51	55.70	0.0				e	54	16.20		AVF		71.92	348	eP	54	46.90	-0.5
LRM		47.16	70	eP	51	57.30	0.2				e	54	22.70				1.2s		71.90nm			5.6mb
ORV		47.65	83	ePc	51	59.80	-1.0	BRG	66.57	342	iP	54	16.40	1.9	SMF		72.02	348	eP	54	47.30	-0.7
WMO		48.18	287	P	52	05.00	0.1		1.4s		36.00nm			5.3mb			1.2s		32.75nm			5.2mb
		2.0s		40.00nm			5.1mb				i	54	24.70		MMK		72.13	345	ePc	54	49.50	0.5
	Z	14s		1.10um			5.0MszX	KHT	66.74	258	eP	54	16.50	0.5	DIX		72.17	345	ePc	54	49.80	0.5
BRK		48.60	85	eP	52	12.00	4.0X	TBR	66.82	46	P	54	14.00	-2.2	BGF		72.20	349	eP	54	48.40	-0.7
FRB		48.87	29	eP	52	08.00	-1.7	SPC	67.11	337	eP	54	17.10	-1.1			1.1s		31.75nm			5.2mb
SOD		48.87	341	iP	52	09.10	-0.7	MOX	67.13	343	eP	54	18.00	-0.1	VAI		72.21	344	P	54	48.80	-0.3
ARN		49.37	84	P	52	14.00	0.0				i	54	21.00		EMS		72.24	346	ePc	54	49.70	0.1
CMB		49.38	83	ePc	52	14.20	0.0				e	54	28.00		MFF		72.42	351	eP	54	50.10	-0.3
				e	52	52.80		PRU	67.34	341	eP	54	19.00	-0.4			1.1s		24.40nm			5.1mb
				e	53	37.00			1.2s		24.80nm			5.2mb	TCF		72.53	349	eP	54	50.80	-0.3
KVN		49.69	80	P	52	16.70	0.0		Z	14s	1.00um			5.2MszX			1.2s		44.65nm			5.3mb
LLA		50.23	84	ePc	52	21.10	0.4		N	14s	0.80um				MAF		72.56	349	eP	54	51.00	-0.3
PRS		50.25	85	ePc	52	20.70	-0.1				i	54	22.00				1.1s		29.30nm			5.2mb
BONR		50.46	81	P	52	23.50	0.8	BNS	67.39	346	eP	54	22.80	3.1X	LSF		72.63	350	eP	54	51.30	-0.4
FRI		50.54	83	ePc	52	22.60	-0.3		1.3s		60.00nm			5.5mb			1.2s		41.65nm			5.3mb
CD2		50.60	264	eP	52	23.40	-0.2	ENN	67.72	347	eP	54	22.00	0.2	RSL		72.65	346	P	54	52.04	0.0
	Z	11s		0.80um			5.0MszX		1.5s		114.00nm			5.7mb	PLDF		72.71	348	P	54	55.50	3.3X
PRI		50.75	85	ePc	52	25.50	0.8	NNT	68.10	256	eP	54	25.80	1.3	LPL		72.81	346	eP	54	53.10	0.1
BW06		50.83	71	P	52	25.20	-0.2	GRF	68.12	343	eP	54	24.60	0.3			1.1s		26.85nm			5.2mb
		1.0s		36.67nm			5.3mb		0.8s		10.00nm			5.0mb	LPG		72.82	346	eP	54	53.40	0.2
TNP		50.88	80	P	52	25.80	0.0		Z	21s	0.20um			4.3Msz			1.1s		36.55nm			5.3mb
DUG		51.33	75	P	52	29.00	-0.1				e	54	27.70		PYM		72.99	348	P	54	54.50	0.7
DAU		51.89	74	P	52	34.00	0.4	SNF	68.15	348	Pc	54	28.00	3.6X	BNI		73.27	346	P	54	57.60	2.0
ISA		52.20	83	eP	52	35.00	-0.6	KHC	68.32	342	iP	54	26.20	0.6	LBL		73.48	348	P	54	57.50	1.0
RSSD		52.29	66	P	52	35.80	-0.6		1.4s		28.00nm			5.2mb	RJF		73.57	349	eP	54	56.90	-0.2
		1.0s		54.23nm			5.5mb		Z	16s	0.90um			5.1MszX			1.1s		22.00nm			5.1mb
CLC		52.50	82	eP	52	38.00	0.1		E	16s	0.60um					Z	21s	0.20um			4.4Msz
MSU		52.96	76	P	52	41.20	-0.3				i	54	29.30		MME		73.57	343	P	54	59.10	1.6
SBB		53.29	83	eP	52	44.00	0.2				e	54	37.50		CKI		73.69	344	P	54	57.60	-0.2
GSC		53.30	82	eP	52	44.00	0.2	PSZ	68.40	337	eP	54	26.60	0.5	BDI		73.72	343	P	54	58.50	0.4
MWC		53.56	84	eP	52	46.00	0.2	WET	68.41	342	eP	54	26.40	0.2	PGD		73.73	342	P	55	00.00	1.7
PAS		53.56	84	eP	52	46.00	0.4	DOU	68.53	348	Pc	54	26.50	-0.3	SKO		73.78	334	eP	54	57.00	-1.4
AKU		53.73	3	iPc	52	48.10	1.7	ZST	68.65	339	eP	54	28.00	0.5	CAF		73.89	349	eP	54	59.30	0.2
		0.8s		17.91nm			5.1mb				i	54	31.00				1.3s		54.15nm			5.4mb
KAF		53.77	338	eP	52	45.00	-1.8	SRO	68.80	338	eP	54	28.70	0.2	ARV		73.91	341	P	55	00.30	1.2
		0.8s		19.00nm			5.2mb	QUE	68.80	294	eP	54	22.00	-7.0X	CRE		73.94	341	P	55	00.70	1.3
TPC		54.63	82	eP	52	53.00	-0.6	CVO	69.06	332	ePc	54	31.20	1.0	LFF		74.00	350	eP	54	59.40	-0.2
PLM		54.84	84	eP	52	56.00	0.7	CFR	69.19	330	eP	54	34.00	3.1X			1.0s		32.00nm			5.3mb
GOL		55.19	70	P	52	58.30	0.4	GWF	69.29	346	P	54	31.25	-0.3	VAY		74.16	333	eP	55	04.60	4.1X
NUR		55.56	339	eP	52	58.00	-1.9	MLR	69.43	332	eP	54	34.00	1.4	LPO		74.21	350	eP	55	00.80	-0.1
KMI		55.92	261	Pc	53	03.00	-0.2	BHG	69.80	342	iPc	54	35.30	0.7			1.3s		5.05nm			4.4mb
		1.0s		30.00nm			5.3mb	CMP	69.85	332	ePc	54	43.00	8.0X	HYB		74.25	277	ePd	55	00.40	-1.1
				pP	53	07.00	13kmX	WLS	69.88	346	P	54	34.69	-0.5			1.0s		45.00nm			5.4mb
				sP	53	13.00		CDF	69.89	346	P	54	34.83	-0.5	SBF		74.35	345	eP	55	02.20	0.4
GLA		56.08	82	eP	53	04.00	0.0	ECH	70.10	346	P	54	35.56	-0.9			1.0s		52.00nm			5.5mb
NB2		57.04	346	P	53	09.60	-1.0	VITF	70.23	347	P	54	36.93	-0.3	OHR		74.74	334	eP	55	04.00	0.0
		1.0s		52.80nm			5.5mb	FLN	70.30	351	eP	54	36.50	-1.1	FRF		74.75	345	eP	55	04.80	0.8
SCH		57.06	34	ePc	53	09.60	-1.2		1.1s		36.05nm			5.4mb	LRG		74.89	346	eP	55	04.60	-0.1
		0.8s		34.00nm			5.4mb		Z	19s	0.25um			4.5Msz	LMR		74.99	345	eP	55	05.00	-0.3
UPP		57.33	342	iP	53	11.20	-1.4	FEL	70.33	345	eP	54	37.18	-0.8			1.1s		14.65nm			4.9mb
HFS		57.62	345	eP	53	12.70	-1.9	KBA	70.36	341	eP	54	38.00	-0.2	PGF		75.43	343	eP	55	07.40	-0.6
		1.6s		110.00nm			5.7mb		1.5s		67.50nm			5.5mb			1.0s		20.00nm			5.1mb
	Z	16s		0.36um			4.6MszX				ic	54	39.20		POO		75.57	282	eP	55	08.00	-1.1
				LR	13	48.00					i	54	42.20		BTH		75.88	350	P	55	13.20	2.7X
ANMO		58.54	74	P	53	20.00	-1.6				i	54	45.70		EPF		75.93	350	eP	55	10.20	-0.6
		1.2s		95.70nm			5.8mb				e	55	06.00				1.0s		16.00nm			5.0mb
ALO		58.54	74	eP	53	21.00	-0.7	SLE	70.38	345	ePc	54	37.90	-0.3	MLS		75.94	349	P	55	11.43	0.6
		0.9s		14.71nm			5.1mb	HAU	70.40	346	eP	54	37.40	-0.9	EMON		75.99	356	eP	55	10.20	-0.9
GUN		61.82	277	P	53	43.40	-0.9		1.1s		34.20nm			5.3mb	ORI		76.63	337	P	55	16.80	2.1
KKN		62.21	278	P	53	45.80	-1.0		Z	20s	0.47um			4.7Msz	MGR		76.72	338	P	55	15.80	0.6
		0.6s		8.00nm			5.0mb	LDF	70.44	351	eP	54	37.40	-1.1	TDS		77.04	337	P	55	18.40	1.4
PKI		62.33	277	P	53	47.40	-0.3		1.1s		29.30nm			5.3mb	GBA		78.07	276	P	55	22.70	-0.2
GKN		62.34	278	P	53	46.40	-1.2	MOF	70.46	346	P	54	38.26	-0.5	EROO		78.11	350	eP	55	23.80	0.9
GAC		62.37	45	eP	53	45.50	-1.8	BSF	70.52	346	P	54	38.40	-0.8	HRI		78.17	320	eP	55	27.50	4.1X
		0.9s		17.00nm			5.2mb	ZLA	70.67	345	ePc	54	39.90	-0.1	ETOR		78.31	352	eP	55	25.00	0.9
DMN		62.44	278	P	53	48.40	0.0	GRR	70.70	352	eP	54	39.40	-0.7	GUD		78.63	353	eP	55	26.50	0.6
TUL		62.63	65	eP	53	47.80	-1.4		1.1s		43.95nm			5.4mb	EPLA		79.30	355	eP	55	30.00	0.6
		1.2s		60.90nm			5.6mb	BBS	70.80	345	P	54	39.97	-0.8	TOL		79.38	353	iPd	55	34.00	4.2X
LOE		62.98	257	eP	53	51.60	-0.1	KVT	70.88	323	eP	54	42.60	1.3			1.2s		62.50nm			5.5mb
CHG		63.11	260	iPc	53	52.90	0.4	FVI	70.92	342	P	54	42.00	0.6	ECHE		79.45	351	eP	55	32.00	1.7
		1.1s		27.85nm			5.3mb	LOMF	70.99	346	P	54	41.30	-0.7	JVI		79.54	320	eP	55	35.00	4.2X
CBM		63.69	39	P	53	53.70	-2.3	LPF	71.07	352	eP	54	41.80	-0.5	EVIA		80.52	352	eP	55	37.50	1.5
EKA		63.92	354	Pc	53	57.30	-0.1		1.1s		34.20nm			5.3mb	PRNI		81.12	320	eP	55	43.00	3.8X
		1.5s		64.70nm			5.5mb	LLS	71.19	344	ePc	54	43.50	0.1	ECOG		81.94	352	eP	55	45.00	1.5
NDI		65.33	285	eP	54	06.00	-0.9	OSS	71.21	343	ePc	54	43.70	0.2	AFC		81.96	352	eP	55	44.50	0.8
KSP		66.23	340	eP	54	11.30	-1.0	LOR	71.40	348	eP	54	43.80	-0.6	OIS		84.09	206	eP	55	54.00	-0.4
		1.2s		43.00nm			5.4mb		1.2s		80.35nm			5.6mb	W82		84.72	211	iPd	55	58.10	0.5

0.8s 16.20nm 5.3mb
iPcP 59 24.80
WRA 84.72 211 P 55 58.00 0.4
0.8s 15.40nm 5.2mb
ASPA 88.40 210 iPd 56 15.70 0.2
1.1s 7.50nm 4.9mb
ZOBO 120.75 67 ePKP 02 15.00 -1.7
Z 20s 0.13um 4.6Msz
i 03 42.00
LR 45 32.00
S.D. = 0.9 on 197 of 213 obs.

MAR 12, 1991 19h 46m 11.81± 0.90s
23.169 N ± 8.9km 120.036 E ± 8.3km
DEPTH = 23.0 ± 8.4 km
4.1mb (3 obs.)
TAIWAN (244)

TWK 0.43 77 iPd 46 19.50 -1.3
eS 46 23.50
TWM1 0.49 134 ePd 46 22.90 1.1
eS 46 29.50
TWG 1.02 110 ePc 46 30.50 -0.1
TWF1 1.17 81 ePc 46 32.50 -0.4
TWO 1.32 34 ePc 46 35.60 0.6
TWD 1.69 57 eP 46 41.20 0.9
QZH 2.21 324 ePn 46 49.00 1.3
Pg 46 53.70
Sn 47 19.50
ANP 2.42 34 eP 46 56.60 5.7X
GZH 6.16 271 eP 47 43.50 -0.2
eS 48 48.20
SSE 7.96 7 eP 48 11.50 2.5
Z 12s 0.90um
E 10s 0.90um
NJ2 8.91 354 Pd 48 19.80 -2.3
Z 14s 0.60um
WHN 8.93 327 Pc 48 20.70 -1 6
Z 10s 0.90um
pP 48 25.00
GYA 12.58 288 iPd 49 12.00 -0.4
pP 49 18.60
S 51 31.60
XAN 14.57 320 eP 49 36.00 -2.5
N 11s 0.70um
TIY 15.90 337 eP 49 57.80 2.0
Z 13s 1.10um
N 12s 0.80um
BJI 17.14 350 eP 50 14.50 3.2X
CHTO 20.16 262 P 50 51.80 4.3X
LSA 26.63 290 P 51 53.20 2.1
WRA 45.07 161 P 54 28.00 0.0
0.7s 1.80nm 4.1mb
WB2 45.07 161 iPd 54 27.20 -0.8
0.8s 1.80nm 4.1mb
NB2 78.62 332 P 58 12.90 -0.3
0.9s 1.60nm 4.1mb
S.D. = 1.6 on 18 of 21 obs.

• MAR 12, 1991 20h 13m 53.46± 2.50s
23.232 N ± 7.0km 120.148 E ±19.5km
DEPTH = 10.0km (geophysicist)
TAIWAN (244)

TWK 0.31 84 iPd 14 00.20 0.2
eS 14 05.80
TWM1 0.48 148 eP 14 03.20 0.0
TWG 0.94 116 ePd 14 11.40 -0.1
eS 14 25.80
TWF1 1.06 83 iPd 14 13.20 -0.3
eS 14 29.40
TWO 1.21 31 ePc 14 16.00 -0.1
eS 14 32.90
TWD 1.57 57 eP 14 21.60 0.2
SSE 7.89 7 eP 16 01.20 10.3X
E 10s 0.50um
esP 16 07.50
eS 17 20.20
eLg 18 17.00
S.D. = 0.2 on 6 of 7 obs.

& MAR 12, 1991 20h 14m 51.40s
35.720 N 118.410 W
DEPTH = 5.0km
CENTRAL CALIFORNIA (39)
<PAS-P>. ML 2.5 (PAS). Felt at Kernville.

CLC 0.67 81 eP 15 03.80 -1.0
ABL 1.09 218 eP 15 10.50 -2.0
BCH 1.47 249 eP 15 16.50 -2.1
3 obs. assocloted

? MAR 12, 1991 21h 46m 40.43± 1.25s
43.046 N ± 7.8km 13.070 E ±12.1km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

CIO 0.16 20 iPg 46 44.24 0.1
iSg 46 47.20
ASS 0.30 275 P 46 46.80 0.1
eSg 46 52.90
ARV 0.46 348 P 46 49.70 -0.1
eSg 46 57.50
MNS 0.72 204 P 46 54.60 0.0
eSg 47 05.60
S.D. = 0.2 on 4 of 4 obs.

• MAR 12, 1991 22h 02m 54.76± 2.50s
23.250 N ± 7.1km 120.146 E ±19.6km
DEPTH = 10.0km (geophysicist)
TAIWAN (244)

TWK 0.31 87 iPd 03 01.60 0.3
eS 03 07.00
TWM1 0.49 149 eP 03 04.90 0.1
TWG 0.95 116 iPd 03 12.70 -0.2
eS 03 26.70
TWF1 1.06 84 iPd 03 14.50 -0.3
eS 03 29.20
TWO 1.20 32 ePd 03 17.00 -0.1
eS 03 33.80
TWD 1.56 58 eP 03 22.90 0.3
SSE 7.87 7 eP 05 01.00 9.0X
eLg 07 10.00
S.D. = 0.3 on 6 of 7 obs.

MAR 12, 1991 23h 12m 09.70± 0.44s
43.028 N ± 3.7km 13.033 E ± 4.3km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)
MD 2.6 (SSO).

CIO 0.19 26 iPgd 12 13.36 -0.5
iSg 12 16.36
ASS 0.28 279 Pd 12 15.50 0.0
eSg 12 20.30
SSO 0.39 47 ePgd 12 18.33 0.7
iSg 12 25.86
ALP 0.47 122 iPg 12 19.16 -0.1
iSg 12 27.07
ARV 0.47 352 P 12 18.80 -0.6
eSg 12 26.60
MNS 0.69 202 P 12 23.20 -0.3
eSg 12 34.80
AOU 0.73 158 P 12 24.10 0.1
eSg 12 36.10
CRE 0.99 308 P 12 28.70 0.1
PGD 1.28 312 P 12 34.00 0.5
SDI 1.44 156 Pd 12 36.00 0.1
S.D. = 0.4 on 10 of 10 obs.

MAR 12, 1991 23h 17m 32.73± 0.69s
15.515 N ± 3.8km 60.797 W ± 9.2km
DEPTH = 60.9 ± 6.0 km
4.3mb (2 obs.)
LEEWARD ISLANDS (92)
MD 4.2 (TRN). Felt (III) on Mortinique.

DBCT 0.59 246 eP 17 46.33 0.5
eS 17 55.48
MDN 0.61 251 eP 17 46.39 0.3
eS 17 55.89
DPMT 0.62 246 eP 17 46.36 0.2
eS 17 55.58
DSVT 0.62 243 eP 17 46.53 0.4
BBL 0.66 271 iPd 17 47.12 0.5
S 17 57.70
CRM 0.77 189 iPc 17 46.49 -1.4
SFG 0.83 332 iPc 17 48.21 -0.5
DEG 0.83 342 iPc 17 47.40 -1.4
FDF 0.85 204 iPc 17 48.53 -0.5
S 18 01.70
DOG 0.94 303 iPc 17 51.38 1.2
S 18 05.70
MVM 0.96 186 iPc 17 49.21 -1.2
PAG 0.99 301 ePc 17 52.06 1.2
S 18 06.60
SEG 1.11 322 iPc 17 53.10 0.6
S 18 08.30
SLB 1.70 188 eP 18 02.00 1.5
eS 18 28.00
BPA 1.83 326 eP 18 02.69 0.3
eS 18 28.26
FCV 2.38 191 eP 18 10.44 0.3
eS 18 40.37
GRW 3.44 194 eP 18 25.00 -0.1
TRN 4.87 187 eP 18 45.05 -0.2
eS 19 40.00
TCE 4.88 191 eP 18 44.50 -0.8
eS 19 39.00
TBH 5.01 183 eP 18 50.00 2.9
LLAV 7.71 230 iP 19 23.10 -1.8
OLLA 8.01 228 iP 19 28.50 -0.5
CEOS 9.78 230 iP 19 51.90 -1.5
TOV 10.46 238 eP 20 03.20 0.6
SDV 11.65 237 eP 20 18.60 -0.2
ZOBO 32.40 193 P 24 00.00 0.4
LPB 32.65 193 P 24 03.00 1.4
CNCB 32.89 193 P 24 04.00 0.1
ANMO 45.16 304 P 25 46.00 0.5
FRB 48.48 355 eP 26 11.00 0.2
SES 53.21 322 eP 26 47.00 0.0
YKA 60.02 334 eP 27 33.70 -1.5
0.5s 1.60nm 4.4mb
MBC 67.76 347 eP 28 26.00 0.4
0.6s 2.00nm 4.3mb
INK 69.32 338 eP 28 35.00 -0.3
S.D. = 1.0 on 34 of 34 obs.

& MAR 13, 1991 01h 04m 33.28s
58.335 N 142.788 W
DEPTH = 10.0km (geophysicist)
GULF OF ALASKA (15)
<AEIC>.

YKU 2.00 51 eP 05 03.43 -4.0
YAH 2.10 14 eP 05 04.18 -5.0
eS 05 29.17
MID 2.15 302 eP 05 05.77 -3.8
PNL 2.21 51 eP 05 05.35 -5.1
S 05 30.86
BCPM 2.30 44 eP 05 06.74 -5.0
S 05 31.54
HON 2.32 59 iP 05 06.83 -5.3
S 05 32.08
TGL 2.43 360 eP 05 08.41 -5.3
BALM 2.72 5 iP 05 12.61 -5.3
CTGM 2.74 15 eP 05 12.94 -5.3
GLB 3.16 351 eP 05 18.43 -5.6
VLZ 3.33 329 eP 05 20.58 -5.8
KLU 3.54 335 eP 05 24.17 -5.3
TOA 4.14 337 eP 05 33.26 -4.7
KNK 4.21 320 eP 05 33.70 -5.2
SLKM 4.38 303 eP 05 36.10 -5.2
GHO 4.62 321 eP 05 39.61 -5.2
SPU 5.48 305 eP 05 51.78 -5.2
CUT 5.52 321 eP 05 52.49 -4.9
YKA 14.46 61 eP 08 10.00 10.3
0.9s 0.50nm
19 obs. assocloted

• MAR 13, 1991 01h 09m 14.33± 1.21s
12.824 N ±18.9km 87.911 W ±10.1km
DEPTH = 33.0km (normal)
4.8mb (17 obs.) 4.6Msz (4 obs.)
NEAR COAST OF NICARAGUA (74)
Felt (IV) at La Union, El Salvador.

QZA 1.27 303 iPc 09 34.00 -1.8
SJAS 1.48 305 iPc 09 38.00 -1.1
LFU 1.49 308 iPc 09 37.30 -1.8
VSS 1.58 305 iPc 09 40.30 -0.3
TME 1.84 310 eP 09 42.00 -2.2
CUSS 2.26 299 eP 09 47.30 -2.8
TPX 4.70 297 (P) 10 26.00 1.1
(S) 11 14.50
SCX 6.00 311 (P) 11 06.50 23.3X
(S) 12 25.00
UPA 9.07 114 ePc 11 32.20 6.2X

13d 01h

	Z 19s	2.08um			
ASM	10.97	305 (P)	11 54.50	2.3	
PPM	12.03	302 (P)	12 09.00	2.0	
III	12.42	298 (P)	12 13.00	1.0	
MRX	14.46	300 (P)	12 42.50	3.8X	
RSCP	22.78	5 P	14 13.30	-1.9	
TUL	24.06	344 eP	14 29.00	1.4	
	2.0s	246.00nm		5.4mb	
	Z 20s	0.63um		4.1Msz	
		LR	21 13.20		
FVM	25.16	355 P	14 38.00	-0.1	
ALQ	27.70	326 eP	15 03.00	1.2	
	1.5s	34.72nm		4.8mb	
ANMO	27.70	326 P	15 01.50	-0.3	
	2.0s	88.24nm		5.1mb	
GLD	30.87	333 P	15 32.00	1.9	
	1.8s	92.31nm		5.3mb	
GOL	30.89	333 P	15 29.00	-1.4	
	1.0s	7.50nm		4.4mb	
PV09	31.77	327 P	15 38.50	0.3	
RSNY	33.63	17 P	15 53.60	-0.3	
	0.7s	13.84nm		5.0mb	
RSSD	34.12	339 P	15 59.00	0.5	
	1.5s	28.80nm		5.0mb	
ZOBO	34.90	145 eP	15 53.00	-12.8X	
	Z 21s	1.02um		4.5Msz	
		S	21 44.00		
		LR	27 00.00		
LPB	35.13	146 eP	16 07.00	-0.6	
	Z 20s	1.42um		4.7Msz	
		LR	27 38.00		
BW06	35.24	332 P	16 08.50	0.4	
	1.2s	14.84nm		4.8mb	
TNP	36.23	319 P	16 16.90	0.4	
	0.8s	4.12nm		4.4mb	
CCH	36.92	144 eP	16 25.00	2.5X	
LRM	38.91	332 eP	16 41.10	2.1	
SES	41.97	338 eP	17 06.00	2.2	
NEW	42.87	331 P	17 14.20	3.0X	
	1.0s	10.00nm		4.5mb	
FFC	43.24	348 eP	17 12.00	-2.1	
	0.9s	15.00nm		4.7mb	
PNT	44.78	331 eP	17 29.00	2.3	
SCH	45.05	17 eP	17 29.00	0.2	
FRB	52.64	11 eP	18 24.00	-3.2X	
YKA	53.14	345 eP	18 28.10	-2.8	
	1.1s	13.10nm		4.8mb	
INK	62.72	343 eP	19 38.50	0.5	
MBC	65.59	352 eP	19 57.00	0.3	
	1.0s	8.00nm		4.8mb	
FBA	65.91	336 P	20 01.80	2.9X	
	0.8s	9.31nm		4.9mb	
EKA	76.59	36 P	21 06.00	2.9X	
	1.0s	6.70nm		4.6mb	
NB2	83.26	29 P	21 39.40	0.6	
	1.0s	4.40nm		4.5mb	
HFS	84.68	29 eP	21 44.20	-1.7	
	0.5s	0.70nm		4.1mb	
	Z 19s	0.24um		4.6Msz	
		LR	51 05.00		
KHC	87.78	40 eP	22 05.20	3.7X	
ASPA	138.99	249 iPKPc	28 46.10	5.9X	
	0.9s	5.40nm			
GBA	149.99	29 PKPc	29 06.80	8.0X	
	0.7s	1.50nm			
	S.D. = 1.6	on 33 of	45 obs.		

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* MAR 13, 1991 01h 15m 18.72± 1.33s
28.174 S ±21.5km 66.842 W ±12.3km
DEPTH = 213.9 ± 19.6 km
CATAMARCA PROVINCE, ARGENTINA (130)

RTRS	3.03	228 iPc	16 09.80	-0.1	
RTLL	3.45	204 iPd	16 14.70	-0.2	
		eS	16 58.20		
CFA	3.63	199 iPd	16 17.20	0.2	
		eS	17 02.00		
TCA	3.71	149 ePc	16 18.00	-0.1	
		S	17 02.20		
RTCB	3.71	207 iPc	16 18.20	0.1	
ZON	3.72	205 eP	16 18.00	-0.2	
		eS	17 04.00		
JACH	5.54	215 eP	16 42.50	1.5	
PEL	5.96	213 eP	16 46.50	0.1	
ROCH	5.98	216 eP	16 46.50	-0.4	
		e	17 54.50		
PCH	6.28	209 eP	16 51.50	1.0	
		e	17 47.00		
		iS	18 05.00		
TACH	6.50	212 eP	16 53.00	-0.3	
		e	18 07.50		
LNV	6.97	213 eP	16 57.50	-1.8	
PPD	15.33	70 eP	18 45.60	-0.1	
VAO	18.65	78 eP	19 22.30	-0.6	
BMA	21.19	80 eP	19 49.10	0.7	
	S.D. = 0.8	on 15 of	15 obs.		

? MAR 13, 1991 01h 45m 45.56± 1.71s
17.993 S ±14.9km 70.582 W ±21.3km
DEPTH = 112.8 ± 18.0 km
4.3mb (1 obs.)
NEAR COAST OF PERU (115)

CNCB	2.75	65 iPc	46 31.00	1.4	
LPB	2.78	59 iPc	46 29.20	-0.7	
	1.0s	396.00nm			
ZOBO	2.91	54 iPc	46 32.00	0.3	
CCH	4.28	83 P	46 53.00	3.0X	
		i	47 05.00		
ANT	5.69	178 eP	47 09.00	0.0	
		iS	48 13.50		
SIV	9.31	79 P	47 56.80	-1.7	
KIC	69.31	76 (P)	56 44.30	1.2	
TNP	70.91	323 (P)	56 52.00	-0.6	
YKA	87.37	341 eP	58 20.70	0.1	
	0.7s	2.50nm		4.3mb	
	S.D. = 1.4	on 8 of	9 obs.		

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* MAR 13, 1991 02h 10m 39.47± 1.19s
52.834 N ±25.0km 168.630 W ±11.6km
DEPTH = 33.0km (normal)
4.7mb (23 obs.) 4.6Msz (1 obs.)
FOX ISLANDS, ALEUTIAN ISLANDS (9)

ADK	5.03	262 eP	11 54.00	-0.5	
SDN	5.41	59 eP	12 00.00	0.2	
PDB	10.61	43 eP	13 13.50	1.4	
TTA	12.12	28 eP	13 39.00	6.4X	
KLU	14.99	46 eP	14 06.60	-3.8X	
TOA	15.15	43 eP	14 11.00	-1.6	
IMA	15.23	24 eP	14 19.80	6.3X	
FBA	16.09	33 eP	14 23.90	-0.5	
	0.9s	17.40nm		4.2mb	
PET	19.64	284 eP	15 07.00	-0.9	
	0.7s	40.00nm		4.8mb	
INK	22.71	34 eP	15 37.00	-2.0	
YKA	29.60	50 eP	16 41.90	-1.3	
	0.5s	0.50nm		3.5mb X	
MBC	29.94	21 eP	16 45.50	-0.6	
	0.5s	2.00nm		4.2mb	
CN2	43.32	286 Pd	18 38.50	-1.1	
	1.0s	10.00nm		4.5mb	
FR8	48.34	36 eP	19 18.00	-1.1	
TIY	54.79	288 eP	20 08.20	0.0	
	Z 20s	0.50um		4.6Msz	
XAN	59.40	287 Pd	20 39.90	-1.0	
SOD	59.57	353 eP	20 42.00	0.4	
LZH	60.83	292 eP	20 50.50	-0.3	
	1.5s	25.00nm		5.1mb	
KAF	64.79	352 iP	21 15.80	-0.6	
	0.5s	3.00nm		4.6mb	
GYA	66.27	283 P	21 25.80	-0.8	
NB2	66.48	0 P	21 27.00	-0.3	
	0.8s	4.10nm		4.6mb	
NUR	66.51	353 eP	21 28.00	0.6	
HFS	67.37	359 eP	21 31.90	-1.0	
	0.8s	6.80nm		4.8mb	
	Z 17s	0.05um		3.8MszX	
		LR	47 24.00		
GUN	76.90	299 P	22 30.40	0.1	
KKN	77.31	299 P	22 32.60	0.1	
PKI	77.42	299 P	22 33.20	0.0	
GKN	77.48	300 P	22 33.00	-0.3	
PRU	77.52	358 eP	22 33.50	0.6	
DMN	77.55	299 P	22 34.20	0.4	
KHC	78.40	359 P	22 39.20	1.4	
LDF	78.48	8 eP	22 37.40	-0.8	
	0.8s	5.35nm		4.6mb	
GRR	78.62	8 eP	22 38.50	-0.5	
	1.0s	10.00nm		4.8mb	
LPF	78.96	8 eP	22 40.50	-0.4	
	1.1s	9.75nm		4.7mb	
ZST	79.23	356 e(P)	22 43.70	1.4	
BSF	79.64	3 eP	22 44.40	-0.3	

LOR	80.07	5 eP	22 46.80	-0.1	
	0.9s	5.75nm		4.6mb	
SSF	80.26	5 eP	22 47.80	-0.1	
	0.8s	4.70nm		4.5mb	
LBF	80.36	5 eP	22 48.30	-0.2	
	0.9s	4.90nm		4.5mb	
KBA	80.45	359 eP	22 50.50	1.4	
	1.0s	14.30nm		4.9mb	
		id	22 51.10		
		e	23 04.00		
MFF	80.45	8 eP	22 49.00	0.1	
	1.0s	12.00nm		4.8mb	
AVF	80.52	6 eP	22 49.20	-0.1	
	0.9s	5.75nm		4.6mb	
SMF	80.69	5 eP	22 50.00	-0.2	
	1.0s	7.00nm		4.6mb	
LSF	80.94	7 eP	22 51.40	-0.1	
	0.9s	6.55nm		4.6mb	
TCF	80.95	6 eP	22 51.10	-0.5	
MAF	81.04	6 eP	22 51.70	-0.3	
	0.7s	2.75nm		4.4mb	
RJF	81.88	7 eP	22 56.70	0.3	
LPL	81.95	3 eP	22 58.00	0.9	
LPG	81.97	3 eP	22 57.70	0.4	
LFF	82.18	8 eP	22 58.00	0.0	
CAF	82.29	7 eP	22 58.70	0.1	
	1.1s	11.00nm		4.8mb	
LPO	82.47	7 eP	22 59.40	-0.1	
	1.0s	10.00nm		4.8mb	
BOB	82.76	1 P	23 03.70	2.6	
ARV	84.04	359 P	23 09.50	1.9	
EPF	84.04	8 eP	23 07.30	-0.4	
	0.8s	4.70nm		4.7mb	
QUE	84.22	314 eP	23 10.30	1.4	
SKO	85.17	352 iP	23 14.50	1.2	
SDI	85.81	358 Pd	23 17.40	0.8	
OHR	86.08	353 eP	23 18.00	0.1	
SLR	150.09	328 iPKPc	30 25.00	2.1X	
	S.D. = 0.9	on 55 of	59 obs.		

? MAR 13, 1991 03h 13m 34.98± 2.24s
40.614 N ±10.6km 29.086 E ±17.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YLV	0.22	102 iPg	13 40.20	0.4	
		iSg	13 44.70		
IZI	0.40	133 iPg	13 43.10	-0.2	
		iSg	13 49.60		
ISK	0.45	357 ePg	13 44.20	0.0	
		eSg	13 49.70		
HRT	0.49	65 iPg	13 44.70	-0.2	
	S.D. = 0.5	on 4 of	4 obs.		

& MAR 13, 1991 04h 08m 07.49s
62.732 N 151.137 W
DEPTH = 98.9km
CENTRAL ALASKA (1)
<AEIC>.

CUT	0.52	129 iPc	08 23.31	-0.2	
HUR	0.73	70 iPd	08 25.00	-0.4	
		eS	08 37.91		
SKT	0.78	194 iPc	08 25.62	-0.2	
		iS	08 38.88		
TRF	0.82	28 ePd	08 26.09	-0.3	
		eS	08 40.23		
PWA	1.24	151 ePc	08 30.91	0.1	
RND	1.24	56 iPd	08 30.59	-0.4	
		eS	08 48.77		
SUA	1.29	172 ePc	08 31.37	-0.2	
GHO	1.41	132 ePc	08 33.20	0.1	
MCK	1.42	44 ePd	08 32.72	-0.3	
NCG	1.42	200 iPc	08 32.88	-0.3	
PLRM	1.48	140 eP	08 33.58	-0.2	
PMR	1.48	140 eP	08 33.70	-0.1	
CRP	1.55	199 ePc	08 34.72	-0.1	
		eS	08 56.11		
BGL	1.59	202 ePc	08 35.52	0.2	
SPU	1.62	196 iPc	08 35.28	-0.3	
		iS	08 57.55		
BWN	1.63	27 eP	08 35.55	-0.1	
CKL	1.64	201 iPc	08 36.10	0.1	
PMS	1.67	153 ePc	08 36.28	0.0	
KNK	1.83	135 iPd	08 37.85	-0.5	
NKA	2.00	181 eP	08 42.60	2.2	
NEA	2.07	25 eP	08 40.40	-1.0	

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WRH     2.21  37 iPd    08 42.63   -0.7
TTA     2.25 277 eP     08 43.50   -0.4
RDT     2.25 196 eP     08 43.95    0.0
SLKM    2.27 169 eP     08 44.18    0.0
NCT     2.34 202 eP     08 45.40    0.2
RDN     2.36 200 eP     08 45.40    0.0
REF     2.37 199 eP     08 45.86    0.2
TOA     2.39 103 eP     08 45.70   -0.1
RS2     2.41 200 eP     08 46.52    0.4
RSO     2.41 199 eP     08 46.51    0.4
CCB     2.43  36 ePd    08 45.36   -0.8
RED     2.45 199 eP     08 47.11    0.5
RDS     2.49  31 ePd    08 46.49   -0.6
HDA     2.51  46 ePc    08 46.63   -0.8
MDM     2.58  29 ePd    08 47.65   -0.7
SDG     2.59  92 ePd    08 48.18   -0.3
DDM     2.61  64 eP     08 49.12    0.4
PAX     2.61  82 ePc    08 48.65   -0.1
FBA     2.63  33 ePd    08 48.50   -0.5
GLI     2.67 132 ePd    08 48.36   -1.2
NNL     2.70 182 eP     08 51.83    1.9
VZW     2.74 126 eP     08 49.03   -1.5
KLU     2.75 115 ePd    08 49.06   -1.6
TZL     2.75 102 eP     08 50.33   -0.2
SEW     2.76 162 eP     08 50.42   -0.2
VLZ     2.78 123 eP     08 48.97   -2.0
GLM     2.81  35 eP     08 50.66   -0.7
KNIM    2.89 144 ePd    08 50.24   -2.3
BRLK    2.98 178 eP     08 53.94    0.2
CNPM    3.22 181 ePc    08 57.11    0.1
PDB     3.30 208 ePc    08 58.32    0.2
IMA     3.53 343 eP     09 00.80   -0.5
GLB     3.68 107 eP     09 01.75   -1.6
TMW     3.76  77 eP     09 03.25   -1.1
CDD     4.01 199 eP     09 08.54    0.7
SYI     4.18 189 eP     09 10.11    0.0
TGL     4.42 113 eP     09 12.06   -1.5
BALM    4.50 108 eP     09 12.25   -2.4
       59 obs. ossociated
-----------------------------------------
   MAR  13, 1991  04h 08m 37.37± 0.67s
   20.076 S ± 8.4km  177.700 W ± 8.7km
   DEPTH = 569.8 ±  8.1 km
   5.0mb ( 16 obs.)
 FIJI ISLANDS REGION                (181)

VUN     4.17 299 eP     10 02.30   -0.2
SGE     4.83 300 ePc    10 08.60    0.9
                eS      11 22.80
AFI     8.35  44 iPd    10 38.50   -1.4
DZM    14.93 260 iPc    11 47.20    1.7
WLZ    18.64 197 P      12 24.50    3.5X
PGZ    21.11 193 P      12 44.00    0.2
MNG    21.29 194 P      12 45.20   -0.2
       0.2s     8.00nm          5.0mb
THZ    23.04 198 eP     13 01.90    0.6
KHZ    23.47 196 P      13 05.10    0.1
LTZ    24.17 198 P      13 10.70   -0.6
BRS    27.95 249 iPc    13 44.70    0.1
COO    29.32 243 iPc    13 57.00    0.5
RMO    31.41 252 iPd    14 14.00   -0.2
       0.5s    28.00nm          5.1mb
CNB    32.70 235 iPc    14 26.60    1.6
       0.8s    51.00nm          5.2mb
CTA    33.81 264 iPd    14 34.20   -0.3
       0.8s    99.25nm          5.5mb
CMS    34.60 243 iPd    14 41.70    0.8
       0.8s    66.00nm          5.3mb
OLP    35.45 252 iPd    14 46.10   -1.9
PMG    35.53 282 eP     14 48.00   -0.7
       1.0s    40.00nm          5.0mb
TOO    36.37 233 iPd    14 57.00    1.6
       0.7s    52.00nm          5.3mb
TAU    37.12 224 eP     15 03.00    1.6
BFD    38.51 235 eP     15 19.00    6.1X
QIS    39.96 262 iPd    15 24.00   -0.8
ASPA   44.89 256 iPd    16 03.10   -0.5
       1.2s   108.30nm          5.3mb
                iPcP    17 32.90
                iS      21 57.50
FORR   49.68 246 eP     16 39.00   -0.6
       0.3s    31.00nm          5.3mb
WARB   51.23 252 iPd    16 50.30   -0.8
       0.5s    15.00nm          4.7mb
MBL    58.13 257 iPd    17 38.20   -1.2
       0.4s    14.00nm          4.6mb
MEKA   58.40 251 iPd    17 40.00   -1.2
       0.4s    11.00nm          4.5mb
KLB    58.49 245 iPd    17 41.00   -0.7
       0.6s    31.00nm          4.8mb
NWAO   58.81 243 eP     17 43.00   -0.8
BAL    59.49 246 eP     17 47.70   -0.6
MUN    59.76 244 iPc    17 50.10    0.0
       0.7s    36.00nm          4.8mb
NANU   61.78 255 eP     18 03.00   -0.4
       0.4s    34.00nm          5.1mb
CSY    64.47 205 eP     18 31.40   11.6X
       0.9s   133.00nm
SPA    70.05 180 iPd    18 51.70   -2.3
       1.0s    27.50nm          4.7mb
TNP    81.03  44 P      19 56.00    1.3
FBA    87.77  12 P      20 26.40   -0.3
CHTO   90.37 290 P      20 41.00    1.4
YKA    96.01  25 eP     21 04.80    0.4
       0.6s     0.30nm          3.7mb X
SOB1  128.48 120 (PKP)  26 43.00    0.8
NB2   138.59 353 PKP    26 53.60   -6.3X
       0.5s     0.70nm
HFS   139.17 351 ePKP   26 52.80   -8.1X
       0.4s     1.20nm
KRA   146.96 339 ePKP   27 15.10    0.6
                  e     27 17.10
KSP   147.37 343 iPKPd  27 19.00    3.9X
                  e     29 30.70
HRI   147.51 301 ePKP   27 20.00    4.0X
CLL   147.71 347 iPKP    27 19.80    4.2X
       0.9s    20.00nm
8RG   147.92 346 iPKP    27 20.70    4.7X
       0.9s    14.00nm
WTS   147.95 355 ePKP   27 21.00    5.1X
       0.9s    10.00nm
DSI   148.22 298 ePKP   27 22.00    4.9X
PRU   148.60 345 PKP    27 22.50    5.4X
       0.8s     6.90nm
RMN   149.08 296 ePKP   27 24.00    5.5X
ENN   149.24 356 ePKP   27 24.00    6.0X
       0.8s     7.00nm
ZST   149.50 340 ePKP   27 24.30    5.8X
GRF   149.60 349 ePKPd  27 25.20    6.6X
KHC   149.63 345 iPKP    27 25.00    6.3X
DOU   149.99 357 PKP    27 25.90    6.8X
FLN   151.29   4 ePKP   27 28.00    6.9X
       0.7s     9.90nm
CDF   151.45 353 ePKP   27 28.60    7.1X
       0.6s     5.40nm
LDF   151.48   3 ePKP   27 28.20    6.8X
       0.4s     3.45nm
GRR   151.64   4 ePKP   27 28.80    7.2X
       0.3s     3.85nm
HAU   151.95 354 ePKP   27 29.50    7.4X
       0.7s     4.40nm
LPF   151.98   5 ePKP   27 29.70    7.6X
       0.5s     9.50nm
BSF   152.07 354 ePKP   27 30.20    7.8X
LOR   152.85 358 ePKP   27 31.90    8.5X
       0.8s     4.70nm
SSF   153.06 358 ePKP   27 32.70    9.0X
LBF   153.12 357 ePKP   27 32.60    8.8X
MFF   153.47   4 ePKP   27 32.90    8.7X
OHR   153.78 327 ePKP   27 33.50    8.6X
8CAO  157.82 228 iPKPc  27 32.10    1.2
       0.5s    30.00nm
                  i     28 08.90
      S.D. = 1.0  on  38 of  68 obs.
-----------------------------------------
?  MAR  13, 1991  04h 50m 05.06± 1.08s
   60.857 N ±19.1km  167.225 E ±21.1km
   DEPTH =  33.0km  (normal)
   4.0mb (  4 obs.)
 EASTERN SIBERIA                    (671)

ILT     9.31  35 iP     52 20.20    0.3
                  e     55 10.00
YKA    35.02  52 eP     56 55.50   -0.5
       0.8s     0.90nm          3.8mb
NB2    57.04 346 P      59 49.60    0.1
       0.7s     3.70nm          4.5mb
HFS    57.61 345 eP     59 52.60   -0.9
       1.0s     2.20nm          4.2mb
EKA    63.90 354 P      00 37.00    0.8
       2.5s   101.50nm          5.5mb X
WB2    84.77 211 iPd    02 37.00    0.2
       1.3s     1.20nm          3.9mb
      S.D. = 0.8  on   6 of   6 obs.
-----------------------------------------
?  MAR  13, 1991  05h 00m 57.34± 0.75s
   45.558 N ±23.6km   26.522 E ±16.2km
   DEPTH = 120.0km  (geophysicist)
 ROMANIA                            (358)

VRI     0.34  24 iPc    01 14.50   -0.2
CVO     0.36 317 iPc    01 14.50   -0.3
MLR     0.41 261 iPc    01 15.00   -0.2
ISR     0.42 178 iPc    01 15.50    0.4
CFR     1.21 107 iPc    01 21.50   -0.3
      S.D. = 0.4  on   5 of   5 obs.
-----------------------------------------
&  MAR  13, 1991  05h 40m 28.87s
   61.342 N          146.809 W
   DEPTH =   4.2km
 SOUTHERN ALASKA                    (  2)
      <AEIC>.

VZW     0.31 156 iPc    40 35.87    0.8
                eS      40 40.92
VLZ     0.31 132 iPc    40 35.68    0.5
                eS      40 40.46
KLU     0.45  70 iPc    40 37.85   -0.1
                eS      40 44.15
GLI     0.48 197 ePd    40 38.66    0.1
                eS      40 46.02
KNK     0.80 276 ePc    40 44.39   -0.4
                eS      40 56.13
TOA     0.82  21 iPd    40 44.60   -0.7
CVA     0.95 147 ePc    40 45.83   -1.7
                eS      41 00.57
HIN     0.96 171 ePc    40 46.44   -1.3
                eS      41 00.02
TZL     0.97  43 iPd    40 46.61   -1.2
KNIM    1.10 205 ePd    40 48.76   -1.2
GHO     1.10 294 iPc    40 49.08   -1.1
PLRM    1.14 284 iPc    40 49.75   -1.0
SGAM    1.15 136 ePc    40 48.81   -2.1
PMS     1.33 267 iPc    40 52.97   -1.1
SDG     1.33  26 ePd    40 51.99   -2.0
RAGM    1.42 132 eP     40 53.77   -1.7
MTU     1.42 197 eP     40 53.66   -1.8
GLB     1.45  85 ePc    40 52.76   -3.2
                eS      41 11.68
PWA     1.50 283 ePc    40 55.46   -1.1
HMT     1.60 128 eP     40 55.90   -2.2
PAX     1.75  20 eP     40 58.12   -2.2
SEW     1.80 227 eP     40 59.68   -1.1
SLKM    1.86 245 iPc    41 01.15   -0.7
SUA     1.90 275 ePc    41 01.19   -1.2
CUT     1.96 305 iPc    41 02.57   -0.5
TGL     2.02 105 eP     41 01.90   -2.3
HUR     2.11 322 eP     41 04.69   -0.7
WAX     2.13 113 eP     41 02.82   -2.9
BALM    2.18  96 ePc    41 03.89   -2.7
NKA     2.24 256 eP     41 07.13   -0.1
RND     2.28 336 eP     41 07.21   -0.7
SKT     2.34 288 ePc    41 07.37   -1.4
                eS      41 37.21
SPU     2.54 269 eP     41 09.79   -1.8
NCG     2.58 274 eP     41 10.72   -1.4
CRP     2.58 271 eP     41 10.72   -1.5
CKL     2.67 269 eP     41 11.94   -1.6
CTGM    2.68  96 eP     41 11.89   -1.8
WRG     2.69 117 eP     41 11.40   -2.3
BGL     2.69 271 eP     41 12.94   -0.9
RDT     2.84 257 ePc    41 13.53   -2.3
REF     3.00 256 eP     41 15.95   -2.3
RDN     3.02 257 eP     41 15.88   -2.6
RSO     3.04 256 eP     41 16.77   -2.0
RS2     3.04 256 eP     41 16.55   -2.2
RED     3.06 255 eP     41 16.80   -2.2
       45 obs. associated
-----------------------------------------
?  MAR  13, 1991  05h 47m 21.09± 0.99s
   43.049 N ± 8.1km   13.059 E ± 7.6km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                      (381)
      MD 2.4 (SSO).

CIO     0.16  23 iPg    47 25.00    0.2
                iSg     47 28.13
ASS     0.29 274 P      47 27.30    0.1
                eSg     47 31.70
ARV     0.46 349 Pd     47 30.20   -0.2
                eSg     47 38.00
```

13d 05h

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ALP      0.46 125 ePg    47 30.52  -0.1
                 iSg    47 38.98
      S.D. = 0.3  an   4 of   4 obs.
-------------------------------------------
   MAR 13, 1991  06h 29m 48.39± 0.46s
   31.971 S ± 8.9km   69.610 W ± 8.7km
   DEPTH = 108.3 ±  7.7 km
 SAN JUAN PROVINCE, ARGENTINA      (137)

RTCB     0.84  55 iPc    30 08.20  -0.1
ZON      0.90  62 iPc    30 09.00   0.2
                 eS     30 25.00
JACH     1.09 229 iPd    30 11.00   0.2
                 iS     30 29.00
RTLL     1.16  57 iPd    30 11.60   0.0
                 eS     30 29.00
CFA      1.22  73 ePd    30 12.80   0.6
                 eS     30 31.70
PEL      1.48 218 iP     30 15.70   0.4
                 iS     30 36.20
ROCH     1.55 230 ePd    30 16.00  -0.3
                 iS     30 37.00
RTRS     1.80   4 iPd    30 19.00  -0.2
PCH      1.81 205 iPd    30 21.00   1.5
                 iS     30 46.50
TACH     2.02 213 iP     30 22.00   0.0
                 iS     30 48.60
LCCH     2.23 227 iPc    30 24.10  -0.7
                 iS     30 51.20
LNV      2.49 217 iP     30 27.00  -1.2
                 i      30 57.00
TCA      4.33  83 ePd    30 52.20  -1.0
III     57.67 326 (P)    39 29.50  -0.4
PPM     57.87 327 (P)    39 45.00  13.3X
GOL     78.65 333 P      41 41.00   1.0
      S.D. = 0.8  an  15 of  16 obs.
-------------------------------------------
   MAR 13, 1991  06h 29m 59.06± 0.32s
   17.263 N ± 6.7km   46.523 W ± 5.4km
   DEPTH =  10.0km  (geophysicist)
   4.8mb ( 33 obs.)  3.8Msz (  4 obs.)
 NORTH ATLANTIC RIDGE              (403)

SOB1    26.88 168 (P)    35 44.00   1.8
CBM     34.55 334 P      36 50.50   0.8
SIV     36.02 204 P      37 01.20  -1.4
PPD     39.33 187 (P)    37 31.00   0.7
ZOBO    39.54 214 Pd     37 32.00  -0.8
        1.0s    21.25nm          4.8mb
     Z  20s     0.18um           3.9Msz
                LR      49 08.00
LPB     39.75 213 P      37 33.00  -1.3
CNCB    39.91 213 P      37 36.00   0.2
SCH     40.59 342 eP     37 42.00   1.6
EPF     47.19  47 eP     38 34.50   0.7
        1.3s    19.85nm          5.0mb
LPF     48.06  40 eP     38 40.30  -0.3
        0.9s    16.40nm          5.1mb
MFF     48.08  42 eP     38 40.60  -0.1
        1.0s    22.00nm          5.2mb
GRR     48.32  40 eP     38 41.90  -0.6
        1.0s    12.00nm          4.9mb
FLN     48.70  39 eP     38 44.80  -0.7
        1.0s    12.00nm          4.9mb
     Z  20s     0.13um           3.9Msz
FRB     48.84 347 eP     38 47.00   0.7
LDF     48.85  40 eP     38 46.00  -0.6
        0.8s     9.40nm          4.9mb
CAF     48.96  45 eP     38 47.20  -0.4
        1.1s    14.65nm          4.9mb
TCF     49.49  43 eP     38 51.50  -0.2
        1.0s    12.00nm          4.8mb
BGF     50.00  43 eP     38 55.10  -0.4
        1.2s    29.75nm          5.1mb
EKA     50.28  31 P      39 05.00   7.5X
        1.2s     9.20nm          4.6mb
AVF     50.40  43 eP     38 58.20  -0.4
        1.2s    17.85nm          4.9mb
SSF     50.59  43 eP     38 59.40  -0.6
        0.7s     4.95nm          4.6mb
SMF     50.68  43 eP     39 00.20  -0.5
        0.8s     6.70nm          4.6mb
LBF     50.87  43 eP     39 01.30  -0.9
        1.1s    11.00nm          4.7mb
LOR     50.88  43 eP     39 01.40  -0.8
        1.3s    19.85nm          4.9mb
     Z  22s     0.10um           3.8Msz

LPL     52.29  45 eP     39 13.10  -0.1
LPG     52.30  45 eP     39 13.70   0.3
        0.8s     4.70nm          4.5mb
HAU     52.71  42 eP     39 14.70  -1.4
     Z  22s     0.05um           3.5Msz
BSF     52.95  43 eP     39 16.40  -1.5
CDF     53.42  42 eP     39 20.00  -1.4
RSSD    54.95 312 P      39 31.80  -1.1
        1.0s     5.42nm          4.5mb
GLD     55.21 307 P      39 35.80   1.0
        0.8s    30.59nm          5.4mb
GOL     55.32 307 P      39 35.50  -0.2
        0.8s     2.98nm          4.4mb
ALQ     55.85 301 eP     39 39.00  -0.5
        1.0s     3.00nm          4.3mb
ANMO    55.84 301 P      39 38.70  -0.7
        1.0s     4.25nm          4.4mb
FFC     56.32 325 eP     39 40.00  -2.3
        1.2s    25.00nm          5.1mb
KBA     57.10  45 e(P)   39 44.00  -4.3X
        1.2s     8.60nm          4.7mb
                 e      39 48.00
KHC     57.64  42 eP     39 52.00   0.2
CLL     57.74  40 eP     39 53.00   0.6
        1.3s    11.00nm          4.7mb
                 i      39 58.60
PV09    58.15 305 P      39 55.00  -0.9
BRG     58.23  40 iP     39 57.40   1.6
        1.2s    13.00nm          4.9mb
PRU     58.42  42 eP     39 58.50   1.3
BW06    58.76 310 P      39 58.50  -1.5
KSP     59.68  41 eP     40 07.60   1.7
SES     60.68 318 eP     40 13.00   0.2
OHR     61.86  52 eP     40 23.70   2.6
SKO     62.36  51 iP     40 26.00   1.7
GLA     62.82 299 eP     40 29.00   1.4
TPC     63.77 300 eP     40 35.00   1.2
GSC     64.32 301 eP     40 38.00   0.6
NEW     64.44 316 P      40 37.10  -0.8
        1.0s    17.50nm          5.2mb
PLM     64.50 299 eP     40 40.00   1.2
TNP     64.51 304 P      40 38.90   0.1
        1.0s     7.50nm          4.8mb
PEC     64.71 300 P      40 39.20  -0.7
YKA     64.73 332 eP     40 37.20  -2.3
        1.2s     2.60nm          4.3mb
BCAO    64.89  93 iPd    40 40.10  -1.2
        1.0s    10.00nm          5.0mb
CLC     64.93 302 eP     40 42.00   0.6
SBB     65.20 301 eP     40 44.00   0.9
MWC     65.43 300 eP     40 45.00   0.3
ISA     65.65 302 eP     40 47.00   1.0
PNT     66.12 317 eP     40 49.00   0.3
        0.7s     6.00nm          4.9mb
MBC     69.28 346 eP     41 09.00   1.0
        1.0s    12.00nm          5.0mb
INK     73.00 337 eP     41 30.00  -0.5
FBA     79.22 335 P      42 05.20  -0.4
        0.8s     7.93nm          4.8mb
ILT     88.27 344 eP     42 53.00   1.4
W82   177.21 197 iPKPc   50 16.90   5.8X
        0.9s     1.40nm
WRA   177.21 197 iPKPc   50 16.90   5.8X
        0.9s     1.40nm
      S.D. = 1.1  an  62 of  66 obs.
-------------------------------------------
?  MAR 13, 1991  06h 58m 43.26± 1.33s
   60.672 N ±27.3km  167.414 E ±31.1km
   DEPTH =  33.0km  (normal)
   4.2mb (  3 obs.)
 EASTERN SIBERIA                   (671)

ILT      9.41  34 eP     00 58.30  -1.2
                 i      01 10.00
                 e      03 44.00
FBA     20.56  59 P      03 25.00   3.7X
INK     25.56  48 eP     04 12.00   1.8
YKA     35.06  52 eP     05 33.90  -0.6
        0.7s     0.50nm          3.6mb
NB2     57.24 346 P      08 29.60   0.4
        0.7s     2.70nm          4.4mb
WB2     84.66 211 iPd    11 14.00  -0.5
        0.8s     2.10nm          4.4mb
      S.D. = 1.7  an   5 of   6 obs.
-------------------------------------------
%  MAR 13, 1991  07h 26m 21.40± 1.43s
   30.368 S ±16.5km   67.523 W ± 8.9km
   DEPTH =  33.0km  (normal)
 SAN JUAN PROVINCE, ARGENTINA      (137)

RTLL     1.26 220 ePd    26 42.00  -0.8
                 eS     26 59.70
CFA      1.38 206 ePd    26 44.90   0.3
                 eS     27 03.00
RTCB     1.56 224 ePc    26 47.80   0.5
                 eS     27 08.10
RTRS     1.69 276 ePd    26 49.00   0.0
                 eS     27 10.40
TCA      2.70 112 ePc    27 03.50   0.0
                 S      27 35.50
      S.D. = 0.7  an   5 of   5 obs.
-------------------------------------------
*  MAR 13, 1991  07h 31m 32.32± 1.24s
   31.392 S ±12.9km   71.516 W ±13.5km
   DEPTH = 114.7 ± 18.9 km
 NEAR COAST OF CENTRAL CHILE       (135)

IHA      1.63 184 iPc    32 01.00  -0.4
                 iS     32 16.50
RTRS     2.15  56 iPd    32 07.00  -0.9
RTCB     2.32  93 iPd    32 11.10   0.8
ZON      2.43  94 eP     32 13.00   1.4
RTLL     2.61  89 iPc    32 13.80  -0.2
CFA      2.81  95 iPc    32 17.30   0.7
                 eS     32 52.00
TCA      5.92  91 ePd    32 57.00  -2.1
CNCB    14.87  13 P      34 58.30  -0.1
LPB     15.12  13 P      35 03.00   1.6
ZOBO    15.37  12 P      35 04.30  -0.5
SIV     18.05  34 iPc    35 36.20  -1.1
PPD     20.29  68 eP     36 01.70   0.7
      S.D. = 1.3  an  12 of  12 obs.
-------------------------------------------
   MAR 13, 1991  08h 01m 52.66± 0.32s
   12.680 N ± 7.1km   44.552 W ± 4.9km
   DEPTH =  10.0km  (geophysicist)
   4.8mb ( 33 obs.)  4.6Msz (  5 obs.)
 NORTH ATLANTIC RIDGE              (403)
      CENTROID, MOMENT TENSOR      (HRV)
      Data Used: GDSN
      L.P.B.: 13S, 22C
      Centroid Location:
      Origin Time        08:01:56.0 0.7
      Lat 12.37N 0.07 Lon  44.27W 0.04
      Dep  15.0 FIX Half-duration  1.9
      Moment Tensor;   Scale 10**16 Nm
        Mrr=-0.81 0.32  Mtt=-0.51 0.54
        Mff= 1.31 0.57  Mrt= 0.00 0.00
        Mrf= 0.00 0.00  Mtf=-8.75 0.34
       Principal Axes:
        T  Val=  9.20  Plg= 0  Azm=228
        N       -0.80       90       180
        P       -8.39        0       138
       Best Double Couple:Mo=8.8*10**16
        NP1:Strike=273 Dip=90 Slip=-180
        NP2:          3     90         0

SLB     16.09 276 eP     05 42.97   2.2
SVV     16.25 274 eP     05 44.36   1.6
TRN     16.63 265 eP     05 48.68   1.2
TCE     16.96 265 eP     05 52.01   0.3
SOB1    22.05 170 eP     06 49.70   0.3
                 e      06 55.10
PDCR    25.62 168 eP     07 20.40  -3.7X
BAO     28.34 187 e(P)   07 50.00   0.9
SIV     32.84 210 P      08 28.80  -0.1
PPD     35.13 191 eP     08 55.50   6.9X
VAO     35.54 184 (P)    09 01.00   8.9X
ZOBO    37.02 220 P      09 06.00   0.7
        1.0s    20.00nm          4.8mb
     Z  24s     1.38um           4.7MszX
                S      15 00.00
                LR     19 48.00
LPB     37.21 219 P      09 04.00  -2.6
     Z  24s     2.33um           4.9MszX
                S      15 02.00
                LR     19 44.00
CNCB    37.34 219 P      09 11.00   3.0X
LKO     38.34  91 P      09 15.46  -0.3
        1.0s    38.00nm          5.1mb
TIC     39.40  95 P      09 24.18  -0.5
LIC     39.48  96 P      09 24.98  -0.3
        1.1s    32.00nm          4.9mb
     Z  20s     0.32um           4.2Msz
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CBM    39.48 334 P     09 30.00   5.1X
KIC    39.73  95 Pd    09 27.12  -0.3
       1.1s    23.50nm          4.8mb
RSCP   43.41 309 P     09 56.00  -1.3
BTH    48.73  43 P     10 41.00   1.6
              sP      10 55.00
EPF    49.06  43 eP    10 43.60   1.6
       1.0s    11.00nm          4.8mb
LFF    50.12  41 eP    10 50.80   0.7
       0.8s    10.75nm          4.9mb
LPO    50.30  42 eP    10 52.20   0.7
       0.9s    16.40nm          5.0mb
MFF    50.31  39 eP    10 52.10   0.7
       1.0s     7.00nm          4.6mb
LPF    50.45  37 eP    10 53.00   0.5
       0.8s     9.40nm          4.8mb
GRR    50.73  36 eP    10 54.80   0.2
       0.7s     8.80nm          4.8mb
RJF    50.77  41 eP    10 55.20   0.1
       0.8s     6.70nm          4.6mb
CAF    50.97  42 eP    10 57.10   0.5
       0.7s     7.15nm          4.7mb
FLN    51.13  36 eP    10 57.90   0.2
LSF    51.19  40 eP    10 58.80   0.6
TUL    51.44 306 e(P)   11 07.20   7.0X
       0.8s     8.20nm          4.7mb
    Z  19s      0.32um          4.4Msz
              LR      26 11.00
TCF    51.63  40 eP    11 02.10   0.5
       1.0s    13.00nm          4.8mb
MAF    51.83  40 eP    11 03.50   0.5
       0.7s     4.40nm          4.5mb
BGF    52.14  40 eP    11 05.70   0.3
       0.7s     7.70nm          4.7mb
AVF    52.56  40 eP    11 08.60   0.1
       0.9s     9.00nm          4.7mb
SSF    52.76  40 eP    11 10.20   0.1
SMF    52.80  40 eP    11 10.50   0.1
       1.7s    33.10nm          5.0mb
LBF    53.03  40 eP    11 12.10   0.0
       0.8s     5.35nm          4.5mb
LOR    53.07  40 eP    11 12.40   0.1
       0.9s     7.85nm          4.6mb
    Z  22s      0.98um          4.8Msz
EKA    53.32  28 P     11 26.00  12.0X
       1.3s    13.00nm
FRB    53.71 347 eP    11 17.00   0.3
HAU    54.90  40 eP    11 25.40  -0.4
    Z  22s      0.88um          4.8Msz
BSF    55.12  40 eP    11 26.90  -0.6
GRF    58.51  39 e(P)  11 46.00  -5.5X
    Z  22s      0.50um          4.6Msz
              e(S)    20 00.00
MOX    59.06  38 eP    11 56.00   0.7
KBA    59.09  42 eP    11 54.00  -1.8
       1.0s     6.30nm          4.7mb
                i      11 55.20
                i      12 15.30
RSSD   59.45 314 P     12 00.00   1.6
GLD    59.50 309 P     12 03.50   4.7X
GOL    59.61 309 P     11 59.30  -0.3
KHC    59.81  40 ePKP  12 00.00  -0.5
                e      12 03.50
ALQ    59.87 303 eP    12 00.00  -1.4
       1.0s     2.50nm          4.3mb
ANMO   59.87 303 P     12 00.00  -1.4
       0.6s     2.67nm          4.5mb
CLL    60.10  38 iP    12 02.50   0.1
PRU    60.65  39 ePKP  12 06.40   0.2
    Z  24s      1.10um          4.9MszX
    E  24s      0.70um
FFC    61.15 326 eP    12 08.00  -1.5
       0.5s     5.00nm          4.9mb
ZST    61.83  42 eP    12 13.90  -0.3
KSP    61.96  39 eP    12 15.60   0.5
PV09   62.36 307 P     12 22.00   3.6X
NB2    62.76  27 P     12 27.60   7.4X
       1.0s     5.00nm          4.7mb
BCAO   62.80  92 iPd   12 21.20   0.0
       1.0s    15.00nm          5.1mb
                ic     12 40.90
BW06   63.18 312 P     12 21.00  -2.6
       1.0s     5.00nm          4.7mb
SKO    63.81  49 eP    12 27.50   0.0
KRA    64.05  40 iPd   12 29.70   0.9
       0.5s    16.00nm          5.5mb
                e      12 40.60

SPC    64.07  41 eP    12 32.60   3.3X
SES    65.37 320 eP    12 37.00  -0.5
MLR    67.40  46 eP    12 48.00  -2.7
PLM    68.43 301 P     12 59.80   2.3
TNP    68.69 306 P     12 57.00  -2.0
       0.7s     2.78nm          4.6mb
NEW    69.05 317 P     12 59.80  -1.0
       1.0s    12.50nm          5.1mb
YKA    69.65 332 eP    13 01.60  -2.5
       0.6s     1.10nm          4.2mb
PNT    70.76 318 eP    13 12.00   0.8
MBC    74.16 346 eP    13 35.50   4.8X
       1.1s     9.00nm          4.7mb
INK    77.94 338 ePd   14 00.30   8.2X
FBA    84.15 335 P     14 26.00   1.0
       0.6s     4.19nm          4.8mb
      S.D. = 1.1  on  60 of  74 obs.
-------------------------------------
%  MAR  13, 1991  08h 41m 36.81± 2.71s
   23.256 N ± 7.8km  120.150 E ±20.7km
   DEPTH =  10.0km  (geophysicist)
 TAIWAN                              (244)

TWK     0.31  88 iPd   41 43.60   0.3
                eS     41 49.70
TWM1    0.50 149 eP    41 47.00   0.1
TWG     0.95 117 ePc   41 54.80  -0.2
TWF1    1.06  85 ePd   41 56.50  -0.3
                eS     42 12.40
TWQ     1.19  32 eP    41 59.10   0.0
      S.D. = 0.3  on   5 of   5 obs.
-------------------------------------
    MAR  13, 1991  08h 42m 29.09± 0.29s
     4.926 N ± 5.5km   82.561 W ± 5.1km
    DEPTH =   9.6km  (  2 depth phases)
    5.0mb ( 43 obs.)  4.9Msz (  9 obs.)
 SOUTH OF PANAMA                     ( 83)
      MD 5.2 (UPA), 4.6 (QUI).
      Mo=5.0*10**17 Nm (PPT).
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 24S, 58C
      Centroid Location:
      Origin Time        08:42:39.4 0.7
      Lat  5.25N 0.06 Lon  82.34W 0.04
      Dep  15.0 FIX Half-duration  2.5
      Moment Tensor;   Scale 10**17 Nm
        Mrr=-0.62 0.14  Mtt= 0.32 0.14
        Mff= 0.30 0.20  Mrt= 0.00 0.00
        Mrf= 0.00 0.00  Mtf= 3.64 0.12
       Principal Axes:
        T  Val=  3.95  Plg= 0  Azm=135
        N       -0.62       90       180
        P       -3.33        0        45
      Best Double Couple:Mo=3.6*10**17
       NP1:Strike=180 Dip=90 Slip=-180
       NP2:        270     90         0

UPA     5.03  37 iPc+  43 45.80  -0.6
       0.5s    56.34nm          5.4mb
                S      44 43.20
ECO     5.25  33 iPd   43 48.90  -0.7
COTA    6.21 137 P     44 01.50  -2.1
QUR     6.47 141 P     44 05.50  -1.7
                eS     45 14.00
OTO     6.50 142 eP    44 06.20  -1.4
CAYA    6.64 136 P     44 09.60  -0.1
TUNG    7.52 147 eP    44 21.80  -0.1
BOG     8.47  92 eP    44 38.00   2.8X
                iS     46 13.00
BMG     9.67  77 eP    44 55.00   3.5X
SDV    12.48  71 eP    45 30.20   0.3
TOV    13.55  68 eP    45 43.80  -0.2
CEOS   14.70  73 iP    45 58.40  -0.7
MORO   15.29  66 iP    46 06.90   0.0
CAR    16.45  69 eP    46 20.00  -1.9
                e(S)   51 00.00
OXX    18.40 312 (P)   46 48.50   2.2
IISM   20.11 315 (P)   47 07.50   1.5
IIT    20.79 314 (P)   47 19.00   5.5X
PPM    21.05 313 (P)   47 17.25   0.8
III    21.25 310 (P)   47 20.00   1.9
MEX    21.63 313 (P)   47 28.00   6.0X
CRX    22.04 312 (P)   47 28.50   2.4
MRX    23.35 311 (P)   47 41.00   2.3
ZOBO   25.45 146 P     48 00.00   0.4
    Z  20s      6.07um          5.1Msz

                S      52 36.00
                LR     55 40.00
LPB    25.67 146 P     48 01.00  -0.5
    Z  17s      8.16um          5.3MszX
                S      52 46.00
                LR     56 18.00
CNCB   25.96 147 P     48 05.00   0.6
SIV    29.74 135 P     48 36.80  -1.3
RSCP   30.65 355 P     48 44.00  -2.0
BLA    32.19   3 P     48 59.00  -0.6
       1.2s    25.76nm          5.0mb
TUL    33.16 340 eP    49 04.80  -3.1X
       1.0s    13.20nm          4.8mb
    Z  19s      0.65um          4.4Msz
FVM    33.68 349 P     49 10.00  -2.4
       1.0s    23.00nm          5.1mb
ALQ    37.16 327 ePc   49 42.20  -0.1
       1.2s    40.23nm          5.1mb
    Z  22s      1.48um          4.7Msz
ANMO   37.16 327 P     49 42.10  -0.2
       1.2s    46.88nm          5.1mb
BAO    39.86 121 ePc   50 05.50   0.4
RSNY   40.09   9 P     50 03.80  -2.7
GLD    40.26 333 P     50 07.80  -0.3
       1.3s    50.57nm          5.0mb
GLA    41.07 317 eP    50 15.00   0.2
GAC    41.08   8 eP    50 13.00  -1.6
TPC    42.52 317 eP    50 27.00   0.4
PLM    42.64 316 eP    50 28.00   0.2
PEC    43.15 316 P     50 30.00  -1.8
RSSD   43.37 337 P     50 32.80  -0.8
       1.5s    77.76nm          5.3mb
GSC    43.72 318 eP    50 36.00  -0.4
SO81   43.84 109 eP    50 39.50   1.9
MWC    43.95 316 eP    50 37.00  -1.5
S8B    44.05 317 eP    50 41.00   1.9
VAO    44.49 130 eP    50 42.50  -0.3
                e      50 45.40  10km
CLC    44.54 318 eP    50 42.00  -1.1
BW06   44.65 332 P     50 42.50  -1.6
ISA    45.04 318 eP    50 47.00  -0.1
TNP    45.64 321 P     50 51.00  -1.0
       1.0s    17.50nm          5.0mb
PDCR   46.52 112 eP    50 53.20  -5.8X
CMB    47.64 319 e(P)  51 06.00  -1.6
LRM    48.31 332 eP    51 12.00  -1.0
ORV    49.21 320 e(P)  51 19.40  -0.3
MIN    49.73 321 e(P)  51 20.60  -3.2X
WDC    50.45 321 eP    51 23.80  -5.3X
SES    51.24 337 eP    51 34.00  -1.1
SCH    51.35  12 eP    51 33.00  -2.8
FFC    52.08 346 eP    51 39.00  -2.3
       1.3s    51.00nm          5.3mb
PNT    54.21 331 eP    51 56.00  -1.1
       1.2s    70.00nm          5.6mb
EDM    54.35 338 iPd   51 56.20  -2.0
FRB    59.58   7 eP    52 31.00  -4.1X
YKA    62.12 344 eP    52 49.20  -3.2X
       1.1s     7.60nm          4.8mb
INK    71.79 342 eP    53 53.00  -0.5
M8C    74.11 351 eP    54 06.00  -0.9
       1.0s    15.00nm          5.0mb
F8A    75.22 336 P     54 12.00  -1.5
       1.0s    14.00nm          5.0mb
LKO    76.37  81 P     54 21.00  -0.1
TIC    77.09  84 P     54 25.34   0.2
LIC    77.11  85 P     54 25.36   0.2
       1.0s    12.00nm          5.0mb
    Z  20s      0.28um          4.6Msz
KIC    77.39  85 P     54 26.86   0.1
       0.9s     9.00nm          4.8mb
EKA    79.94  35 P     54 40.00   0.2
       1.0s    10.60nm          4.8mb
LPF    80.69  42 eP    54 44.70   0.8
       1.4s    34.85nm          5.2mb
GRR    80.83  42 eP    54 45.50   0.8
       0.9s    13.10nm          5.0mb
FLN    81.09  42 eP    54 47.00   0.9
       0.6s     6.30nm          4.8mb
    Z  22s      0.98um          5.1Msz
MFF    81.23  44 eP    54 47.80   0.9
       1.0s    14.00nm          5.0mb
LDF    81.33  42 eP    54 48.10   0.8
       0.9s    13.10nm          5.0mb
EPF    81.47  47 eP    54 48.50   0.2
       1.5s    41.80nm          5.3mb
LPO    82.12  46 eP    54 52.40   0.9
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13d 08h

	0.8s	10.75nm		5.0mb		
RJF	82.36	45 eP	54 53.40	0.6		
	1.2s	17.85nm		5.1mb		
	Z 21s	0.52um		4.9Msz		
CAF	82.74	45 eP	54 55.70	0.9		
	1.2s	14.90nm		5.0mb		
TCF	82.85	44 eP	54 56.10	0.7		
	0.8s	6.05nm		4.8mb		
AVF	83.64	44 eP	54 59.90	0.6		
	0.9s	6.55nm		4.8mb		
SSF	83.74	43 eP	55 00.30	0.4		
	0.6s	4.05nm		4.8mb		
SMF	83.98	44 eP	55 01.70	0.6		
	1.3s	18.05nm		5.1mb		
LOR	83.98	43 eP	55 01.50	0.4		
	0.7s	4.40nm		4.8mb		
	Z 22s	0.70um		5.0Msz		
LBF	84.07	43 eP	55 02.70	1.1		
	0.5s	2.55nm		4.7mb		
ENN	85.26	40 eP	55 10.00	2.7X		
	0.8s	6.00nm		4.9mb		
HAU	85.64	42 eP	55 10.10	0.7		
	Z 22s	0.57um		4.9Msz		
WTS	85.77	38 eP	55 12.00	2.2		
	0.8s	31.00nm		5.5mb		
BSF	85.95	42 eP	55 11.50	0.5		
	0.7s	6.60nm		4.9mb		
LMR	85.98	47 eP	55 12.20	1.1		
	1.3s	25.25nm		5.2mb		
BNI	86.01	45 P	55 16.50	5.1X		
LPL	86.03	45 eP	55 13.10	1.5		
	0.8s	6.05nm		4.8mb		
LPG	86.04	45 eP	55 13.30	1.5		
	0.8s	6.70nm		4.9mb		
BNS	86.05	39 iPc	55 13.10	1.8		
	1.5s	58.00nm		5.5mb		
FRF	86.07	47 eP	55 12.50	0.9		
	0.7s	11.00nm		5.1mb		
CDF	86.24	42 eP	55 13.00	0.5		
SBF	86.62	46 eP	55 15.00	0.6		
	0.7s	13.25nm		5.3mb		
NB2	87.56	29 P	55 19.40	0.9		
	1.5s	19.30nm		5.2mb		
ILT	87.79	338 eP	55 19.00	-0.4		
	Z 20s	1.30um		5.3Msz		
	E 20s	0.60um				
		e	56 02.00	172kmX		
		e	07 12.00			
PGF	87.86	48 eP	55 21.30	0.9		
	1.0s	14.00nm		5.2mb		
MOX	88.88	39 e(P)	55 29.00	4.0X		
CLL	89.67	39 e(P)	55 30.00	1.3		
		i	55 38.30	26kmX		
KHC	90.33	41 eP	55 34.00	2.1		
		e	55 37.10	10km		
PRU	90.82	40 eP	55 37.50	3.4X		
KSP	91.79	39 eP	55 41.00	2.5		
NUR	94.12	28 eP	55 38.00	-11.0X		
SPA	94.89	180 eP	56 06.00	13.4X		
	1.0s	18.50nm				
LZH	138.76	352 e(PKP)	01 51.00	-7.1X		
	Z 24s	0.26um		4.9MszX		
ASPA	140.24	238 ePKP	02 01.10	0.1		
	1.1s	4.90nm				
WB2	141.11	244 iPKPd	01 55.40	-7.2X		
	1.2s	1.60nm				
		e	02 06.50			
WRA	141.12	244 iPKPd	01 55.40	-7.2X		
	1.2s	1.60nm				
		e	02 06.50			
WARB	144.98	230 ePKP	02 07.00	-2.1		
	0.6s	8.00nm				
GKN	145.01	20 PKP	02 09.04	-0.3		
KKN	145.42	19 PKP	02 10.28	0.2		
	0.8s	63.00nm				
GUN	145.50	18 PKP	02 09.02	-1.4		
DMN	145.53	20 PKP	02 10.70	0.4		
	0.9s	60.00nm				
PKI	145.67	19 PKP	02 10.10	-0.6		
POO	147.08	44 ePKP	02 14.00	1.2		
CGP	149.74	296 ePKP	02 23.50	6.5X		
	1.0s	3.80nm				
HYB	151.01	40 ePKP	02 24.50	5.6X		
GBA	152.92	47 PKP	02 30.10	8.5X		
KOD	155.05	53 ePKP	02 29.00	4.0X		
	S.D. = 1.2	on 100 of 123 obs.				

MAR 13, 1991 10h 28m 41.11± 2.32s
26.662 S ±28.2km 176.413 W ±13.1km
DEPTH = 150.5 ± 23.9 km
4.7mb (10 obs.)
SOUTH OF FIJI ISLANDS (171)

RAO	2.90	207 P	29 28.00	0.2		
DZM	16.27	283 iPc	32 21.00	-1.5		
BRS	27.43	261 iPc	34 17.50	2.8		
RMO	31.10	262 iPc	34 48.70	1.4		
	0.9s	63.00nm		5.4mb		
ASPA	44.85	262 iPd	36 41.80	-0.3		
	0.4s	30.70nm		5.3mb		
		i	36 53.00			
		iS	43 17.40			
WB2	45.49	268 iPd	36 45.00	-2.2		
	0.4s	5.60nm		4.5mb		
		e	38 27.50			
		e	38 36.60			
WRA	45.50	268 iPd	36 45.00	-2.3		
	0.4s	5.60nm		4.5mb		
		e	38 27.50			
		e	38 36.60			
FORR	48.41	251 eP	37 10.50	0.7		
WARB	50.62	257 eP	37 27.00	0.2		
	0.4s	2.00nm		4.2mb		
CSY	59.09	207 eP	38 39.20	11.8X		
	0.6s	61.50nm				
CMB	83.05	41 e(P)	40 50.60	-0.3		
TNP	84.98	43 P	41 00.00	-0.8		
	1.0s	6.25nm		4.4mb		
SLKM	89.46	13 P	41 23.00	1.3		
ALQ	90.14	51 eP	41 25.20	-0.4		
	1.0s	5.00nm		4.5mb		
ANMO	90.15	51 P	41 25.00	-0.6		
	1.0s	6.25nm		4.6mb		
PNT	90.96	33 eP	41 29.00	0.2		
BALM	91.66	16 P	41 44.00	12.1X		
GOL	93.42	47 P	41 41.20	0.5		
CHTO	93.67	289 P	41 43.70	1.9		
		e	41 55.90			
FBA	93.93	12 P	41 43.00	0.9		
	0.8s	6.21nm		4.9mb		
ILT	94.29	359 eP	41 46.00	2.4		
RSSD	96.57	44 P	41 54.80	-0.1		
	1.0s	6.24nm		5.0mb		
		pP	42 07.00	40kmX		
NB2	145.24	353 PKP	48 00.40	-1.3		
	1.0s	4.40nm				
UPP	145.43	348 iPKP	48 00.30	-1.7		
HFS	145.82	351 ePKP	48 01.50	-1.2		
	0.9s	9.20nm				
ADI	151.90	291 ePKP	48 26.50	13.5X		
PRNI	152.20	285 ePKP	48 23.00	9.5X		
MBH	152.29	284 ePKP	48 23.50	9.8X		
BBTK	152.42	306 ePKP	48 25.00	11.3X		
MLR	154.08	322 ePKP	48 29.00	13.2X		
	S.D. = 1.5	on 23 of 30 obs.				

& MAR 13, 1991 13h 40m 13.40s
40.643 N 124.877 W
DEPTH = 12.0km
NEAR COAST OF NORTHERN CALIF. (35)
<BRK>. ML 3.3 (BRK).

FHC	0.70	77 iPc	40 26.80	-0.2		
		i	40 33.70			
		iS	40 36.00			
WDC	1.78	91 iPc	40 42.10	-2.1		
LTCM	2.15	101 eP	40 47.00	-2.5		
LBFM	2.37	72 eP	40 51.50	-1.4		
MIN	2.51	96 ePc	40 52.20	-2.6		
ORV	2.81	112 eP	40 55.80	-3.1		
KVN	5.45	105 eP	41 33.50	-3.1		
	7 obs. associated					

% MAR 13, 1991 13h 51m 26.56± 2.26s
43.974 N ±13.7km 7.211 E ±11.2km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
ML 1.4 (GEN).

STV	0.28	17 P	51 32.46	-0.1		
		S	51 37.51			
ENR	0.29	31 P	51 32.51	-0.2		
		S	51 37.61			
IMI	0.49	97 P	51 36.45	-0.2		
		S	51 43.32			
PZZ	0.54	352 P	51 37.78	0.3		
		S	51 45.58			
ROB	0.57	56 P	51 37.99	-0.2		
FIN	0.76	72 P	51 41.48	0.1		
BHB	0.87	2 P	51 43.12	-0.2		
RRL	0.99	342 P	51 45.48	-0.1		
PCP	1.11	59 P	51 48.04	0.5		
	S.D. = 0.3	on 9 of 9 obs.				

MAR 13, 1991 14h 20m 05.28± 0.20s
4.957 N ± 3.2km 125.493 E ± 4.6km
DEPTH = 205.1km (2 depth phases)
5.1mb (28 obs.)
TALAUD ISLANDS (263)

DAV	2.12	2 iPc	20 46.20	0.5		
		iS	21 17.00			
MAP	5.54	344 iPd	21 28.00	0.7		
		iS	22 06.00			
CVP	13.17	344 eP	23 08.00	2.2		
	0.8s	5.00nm		4.0mb X		
PIP	14.11	341 iPc	23 18.00	0.4		
JAY	16.91	116 ePd	23 51.00	-0.8		
	0.7s	327.90nm		5.9mb		
MTN	18.55	162 eP	24 09.00	-0.2		
	0.4s	83.00nm		5.6mb		
QIZ	20.71	314 eP	24 32.30	1.4		
		eS	28 07.00			
PJG	20.94	64 eP	24 34.80	1.5		
QZH	20.95	342 P	24 32.50	-0.8		
	0.6s	90.00nm		5.5mb		
GUA	20.96	65 eP	24 34.70	1.2		
GZH	21.51	328 eP	24 39.00	0.3		
KGM	22.32	263 ePc	24 50.70	4.0X		
	0.9s	603.10nm		6.2mb X		
KLM	23.86	266 eP	25 03.00	1.5		
IPM	24.39	270 ePc	25 07.40	1.0		
	0.9s	82.00nm		5.3mb		
PMG	25.88	123 eP	25 19.00	-1.1		
MBL	26.54	192 eP	25 25.00	-1.1		
PSI	26.60	266 ePd	25 28.20	1.5		
WHN	27.53	339 eP	25 36.00	1.1		
NJ2	27.66	348 Pd	25 36.40	0.3		
QIS	28.90	152 e(P)	25 44.00	-3.2X		
NANU	29.03	199 eP	25 47.00	-1.4		
	0.6s	67.00nm		5.5mb		
CHTO	29.34	300 P	25 51.20	0.0		
ASPA	29.61	164 iPc	25 52.70	-0.8		
	0.7s	18.20nm		4.9mb		
		i	26 48.50	287kmX		
		iS	30 31.10			
TKSJ	29.96	14 eP	25 55.60	-0.8		
WKYJ	30.59	17 eP	26 00.90	-1.2		
YONJ	30.97	13 eP	26 04.70	-0.6		
WARB	30.97	178 iPc	26 05.70	0.3		
	0.6s	83.00nm		5.6mb		
TSRJ	31.93	16 P	26 13.20	-0.4		
MEKA	32.10	192 iPc	26 14.70	-0.5		
	0.6s	35.00nm		5.2mb		
XAN	32.78	334 iPd	26 19.50	-1.6		
	0.4s	20.00nm		5.1mb		
CD2	32.93	324 eP	26 21.50	-0.9		
CHJJ	33.34	20 P	26 23.80	-2.1		
MAT	33.53	19 iPd	26 25.70	-1.8		
	0.9s	42.02nm		5.1mb		
KAKJ	33.90	22 eP	26 27.60	-3.0		
NIIJ	34.43	19 P	26 34.20	-0.9		
TIY	34.72	342 eP	26 37.00	-0.6		
YAMJ	35.62	20 eP	26 45.00	-0.1		
FORR	35.69	176 iPc	26 45.40	-0.3		
	0.4s	44.00nm		5.4mb		
BJI	35.92	348 eP	26 46.50	-1.1		
	1.0s	35.00nm		4.9mb		
BAL	36.35	193 iPc	26 51.00	-0.3		
SNY	36.75	358 Pd	26 53.80	-0.7		
	0.8s	110.00nm		5.5mb		
LZH	36.83	330 iPc	26 55.00	-0.5		
	1.5s	68.00nm		5.0mb		
OFUJ	37.00	21 eP	26 56.20	-0.5		
KLB	37.08	191 iPc	26 57.30	-0.2		
MUN	37.78	193 iPc	27 03.20	-0.1		
HHC	37.86	343 eP	27 03.30	-0.7		
AOMJ	37.89	19 eP	27 04.80	0.7		
NWAO	38.48	191 iPc	27 09.60	0.5		
CN2	38.68	360 iPd	27 09.80	-0.8		
	1.0s	20.00nm		4.7mb		

RKG 39.63 191 eP 27 23.50 4.9X
MDJ 39.66 5 iPd 27 19.00 0.3
MRRJ 39.80 18 eP 27 20.10 0.3
HOOJ 40.49 20 P 27 26.90 1.4
LSA 40.71 311 P 27 29.20 1.2
GTA 41.42 330 iPd 27 33.00 -0.3
0.8s 10.00nm 4.4mb
ScS 37 13.60
BRS 41.58 142 iPc 27 34.20 -0.5
i 28 04.00 132kmX
ADE 41.61 164 iPc 27 36.00 1.1
KUSJ 41.62 21 P 27 35.10 0.4
ASAJ 41.82 19 P 27 36.80 0.4
GUN 44.01 306 P 27 54.52 -0.2
0.4s 34.00nm 5.2mb
PKI 44.26 305 P 27 55.84 -0.9
KKN 44.45 305 P 27 57.62 -0.4
0.3s 12.00nm 4.8mb
DMN 44.52 305 P 27 58.32 -0.4
BFD 44.83 161 eP 28 01.00 0.4
GKN 45.06 305 P 28 02.08 -0.7
0.4s 8.00nm 4.5mb
TOO 46.23 158 eP 28 13.50 1.8
HYB 47.55 289 eP 28 22.00 -0.3
KOD 47.85 279 eP 28 24.90 -0.1
GBA 48.12 284 P 28 26.70 0.0
DZM 48.25 125 iPc 28 28.00 0.3
WMO 51.02 325 P 28 47.60 -0.9
1.0s 10.00nm 4.3mb
PET 55.09 24 eP 29 19.00 1.0
1.0s 60.00nm 5.3mb
KLY 58.40 22 eP 29 41.70 0.4
OUE 60.45 302 eP 29 55.50 -0.6
ILT 73.06 19 eP 31 14.00 -0.2
1.2s 60.00nm 5.2mb
e 32 24.00 305kmX
ANM 76.66 25 eP 31 35.80 1.1
SVW 80.31 29 eP 31 56.30 1.7
TTA 80.37 27 ePd 31 56.50 1.6
0.6s 14.30nm 4.9mb
RSO 81.64 30 P 32 00.80 -0.9
IMA 81.77 24 ePd 32 03.90 1.7
0.7s 18.00nm 4.9mb
SLKM 82.90 30 P 32 07.60 -0.4
PMR 83.47 29 eP 32 11.20 0.5
0.9s 35.80nm 5.1mb
FBA 84.15 25 eP 32 14.80 0.7
0.7s 11.63nm 4.7mb
TOA 84.87 28 eP 32 19.30 1.4
NPA 87.65 255 iP 32 30.10 -2.1
INK 89.48 21 eP 32 39.50 -0.4
pP 33 28.50 198km
MBC 91.03 13 eP 32 47.50 0.6
0.9s 4.00nm 4.4mb
pP 33 40.00 213km
YKA 98.89 24 eP 33 22.40 -0.6
0.9s 2.20nm 4.6mb
TUL 123.89 40 e(PKP)38 55.40 14.6X
KIC 129.06 282 PKP 38 52.00 0.6
0.8s 6.50nm
LKO 129.17 286 PKP 38 52.18 0.6
TIC 129.28 283 PKP 38 52.80 1.0
LIC 129.37 282 PKP 38 52.80 0.9
SIV 167.28 150 PKP 39 47.60 -0.7
S.D. = 1.0 on 90 of 94 obs.

• MAR 13, 1991 15h 29m 04.58± 0.91s
29.996 N ± 8.5km 138.762 E ±12.2km
DEPTH = 442.4 ± 16.0 km
4.6mb (7 obs.)
SOUTH OF HONSHU, JAPAN (211)

MAT 6.54 356 iPc 30 44.40 -0.9
0.8s 78.36nm 4.9mb X
(S) 32 00.00
YAMJ 8.23 7 P 31 03.00 -0.6
eS 32 40.10
OFUJ 9.37 14 P 31 16.00 -0.4
eS 33 03.60
AOMJ 10.62 7 eP 31 31.20 0.9
PJG 17.28 160 eP 32 41.60 1.3
GUA 17.34 160 eP 32 42.20 1.3
CN2 17.38 326 eP 32 42.00 0.9
TIY 23.13 296 eP 33 36.40 0.4
XAN 25.58 287 iPd 33 57.80 -0.4
CHTO 37.76 262 iP 35 42.90 0.6
GUN 45.98 281 P 36 49.26 0.8
PKI 46.48 281 P 36 52.40 0.2
KKN 46.52 281 P 36 52.96 0.5
0.2s 17.00nm 5.1mb
DMN 46.72 281 P 36 54.42 0.4
GKN 47.01 282 P 36 56.50 0.3
0.3s 21.00nm 5.1mb
ASPA 53.56 186 iPd 37 43.20 -1.2
0.3s 5.10nm 4.3mb
MBL 54.02 202 eP 37 46.50 -1.3
0.3s 4.00nm 4.2mb
GBA 58.60 268 P 38 19.60 -0.2
KOD 60.14 265 eP 38 29.00 -1.5
FORR 61.35 190 iPc 38 36.80 -0.9
0.3s 13.00nm 4.9mb
STK 61.60 177 eP 38 58.70 19.4X
0.9s 1.40nm
HFS 79.56 335 eP 40 24.90 -0.1
0.3s 3.30nm 4.5mb
NB2 79.79 337 P 40 26.40 0.2
0.6s 2.20nm 4.0mb
S.D. = 0.9 on 22 of 23 obs.

MAR 13, 1991 15h 53m 06.91± 0.19s
60.780 N ± 4.1km 166.953 E ± 2.8km
DEPTH = 33.0km (normal)
5.1mb (65 obs.)
EASTERN SIBERIA (671)

KLY 5.49 218 eP 54 29.30 0.8
PET 9.00 214 eP 55 17.50 0.0
1.1s 50.00nm 5.6mb
N 17s 2.40um
e 55 32.00
eS 56 50.00
ILT 9.45 35 eP 55 21.80 -1.8
Z 12s 0.90um
N 10s 1.10um
E 10s 1.10um
e 56 09.00
i 57 08.00
e 58 03.00
TTA 17.45 67 eP 57 12.40 3.4X
1.8s 155.30nm 4.8mb
SVW 18.02 73 eP 57 18.20 2.1
IMA 18.14 56 ePd 57 19.60 1.9
1.2s 41.50nm 4.5mb
F8A 20.70 59 eP 57 46.90 0.6
SLKM 20.73 72 P 57 45.50 -1.2
PMR 20.89 68 P 57 47.80 -0.4
1.4s 34.09nm 4.5mb
TOA 22.07 66 eP 58 01.20 0.9
INK 25.66 48 eP 58 35.00 0.3
1.1s 41.00nm 4.9mb
MBC 28.48 29 eP 59 01.00 0.7
1.0s 4.00nm 4.1mb X
CN2 29.88 254 eP 59 13.00 -0.3
1.0s 10.00nm 4.6mb
Z 12s 0.70um 4.5MszX
epP 59 20.00 24kmX
MAT 30.34 230 eP 59 18.00 0.6
1.3s 30.77nm 4.9mb
SNY 32.28 254 eP 59 32.50 -1.8
YKA 35.18 52 eP 59 58.10 -1.0
0.8s 3.00nm 4.3mb
BJI 37.20 260 eP 00 17.00 0.6
1.2s 59.00nm 5.3mb
HHC 38.82 265 eP 00 30.90 0.7
Z 12s 0.60um 4.6MszX
BTO 39.77 266 eP 00 39.00 1.0
TIY 40.83 261 Pd 00 47.90 1.2
Z 14s 0.60um 4.6MszX
E 12s 0.40um
PNT 41.37 72 eP 00 52.00 1.0
0.8s 13.00nm 4.7mb
EDM 41.50 63 eP 00 53.00 1.0
NEW 43.28 71 P 01 07.00 0.3
1.0s 15.00nm 4.7mb
SES 44.51 65 eP 01 17.00 0.4
FFC 45.22 55 ePd 01 22.50 0.4
1.2s 35.00nm 5.1mb
GTA 45.68 274 iPc 01 26.20 0.1
1.0s 20.00nm 5.0mb
Z 14s 0.40um 4.5MszX
E 10s 0.40um
LZH 46.31 268 iPc 01 31.20 0.0
1.5s 71.00nm 5.4mb
Z 15s 0.34um 4.4MszX
E 10s 0.22um
sP 01 42.00
KEV 46.68 342 eP 01 44.00 10.6X
WMO 48.13 287 P 01 46.20 0.9
Z 16s 0.60um 4.7MszX
PP 03 39.00
SOD 48.90 341 eP 01 51.00 0.2
FRB 48.94 29 eP 01 50.00 -1.1
CD2 50.54 264 eP 02 03.00 -0.8
BW06 50.91 70 P 02 06.90 0.1
0.7s 4.19nm 4.5mb
TNP 50.95 80 P 02 06.00 -1.1
0.8s 6.62nm 4.7mb
ISA 52.26 83 eP 02 16.00 -0.9
RSSD 52.37 65 P 02 17.90 0.1
0.7s 8.65nm 4.8mb
CLC 52.57 82 eP 02 19.00 -0.2
SBB 53.36 83 eP 02 25.00 -0.1
GSC 53.36 82 eP 02 26.00 0.9
KAF 53.80 338 iP 02 27.50 -0.3
0.6s 10.10nm 5.0mb
PV09 54.48 73 P 02 31.00 -2.5
PLM 54.91 83 eP 02 35.00 -1.6
NUR 55.59 338 eP 02 41.00 0.1
KMI 55.85 261 Pd 02 43.00 -0.5
1.5s 40.00nm 5.2mb
GLA 56.14 82 eP 02 46.00 0.7
NB2 57.08 346 P 02 51.30 -0.4
0.9s 37.80nm 5.4mb
SCH 57.14 34 eP 02 51.00 -1.2
UPP 57.37 342 iP 02 53.20 -0.4
HFS 57.65 345 eP 02 54.40 -1.2
0.9s 22.10nm 5.2mb
Z 17s 0.14um 4.1MszX
LR 23 46.00
LSA 57.71 274 P 02 57.20 0.2
ANMO 58.61 74 P 03 03.00 0.1
1.0s 7.00nm 4.7mb
ALO 58.62 74 eP 03 03.00 0.0
1.0s 5.00nm 4.6mb
GUN 61.76 277 P 03 23.68 -1.1
1.0s 88.00nm 5.8mb
KKN 62.16 278 P 03 26.26 -1.0
PKI 62.28 277 P 03 26.80 -1.4
1.1s 26.00nm 5.3mb
GKN 62.29 278 P 03 27.08 -1.0
1.2s 124.00nm 5.9mb
DMN 62.39 278 P 03 27.88 -0.9
1.1s 27.00nm 5.3mb
FVM 63.30 60 P 03 32.90 -1.5
0.8s 30.30nm 5.5mb
EKA 63.97 354 Pc 03 38.40 -0.1
1.0s 26.90nm 5.3mb
WIT 65.66 347 eP 03 51.00 1.6
KSP 66.26 340 iPc 03 53.00 -0.3
e 04 24.00
CLL 66.32 342 iPd 03 53.60 -0.1
1.3s 30.00nm 5.2mb
KRA 66.37 337 ePd 03 54.20 0.2
0.8s 24.00nm 5.3mb
e 04 09.70
WTS 66.45 347 eP 03 55.00 0.5
1.0s 50.00nm 5.6mb
BRG 66.60 342 iP 03 55.40 -0.1
1.0s 12.00nm 4.9mb
SPC 67.14 337 eP 04 00.60 1.4
MOX 67.17 343 iP 03 59.00 -0.1
1.0s 26.00nm 5.3mb
PRU 67.37 341 eP 04 00.50 0.1
1.0s 14.50nm 5.0mb
ENN 67.76 347 eP 04 03.00 0.2
1.4s 46.00nm 5.4mb
GRF 68.16 343 ePc 04 05.90 0.6
1.1s 24.00nm 5.2mb
Z 20s 0.10um 4.0Msz
KHC 68.35 342 P 04 07.30 0.7
DOU 68.57 348 Pd 04 08.00 0.2
ZST 68.67 339 iP 04 09.90 1.4
0.8s 18.00nm 5.2mb
QUE 68.77 294 eP 04 09.50 -0.1
GWF 69.33 346 P 04 12.11 -0.5
WLS 69.92 346 P 04 16.23 0.0
CDF 69.93 346 P 04 16.18 -0.1
ECH 70.14 346 P 04 17.30 -0.2
VITF 70.27 347 P 04 18.52 0.3
FLN 70.34 351 eP 04 17.90 -0.8
0.9s 27.85nm 5.3mb

13d 16h

	Z	22s	0.13um			4.1Msz
FEL	70.36	345	P	04	18.73	-0.3
KBA	70.39	341	iPc	04	19.90	0.7
	1.4s	30.20nm				5.2mb
		i		04	23.70	
HAU	70.44	346	eP	04	18.90	-0.4
	1.0s	22.00nm				5.2mb
	Z	22s	0.08um			3.9Msz
WTTA	70.47	342	iPc	04	20.20	0.5
	1.0s	21.20nm				5.2mb
		id		04	20.40	
LDF	70.48	351	eP	04	18.90	-0.6
	0.8s	18.80nm				5.2mb
MOF	70.50	346	P	04	19.62	-0.2
BSF	70.56	346	eP	04	19.50	-0.7
	0.8s	10.75nm				5.0mb
GRR	70.74	351	eP	04	20.70	-0.4
	0.8s	28.20nm				5.4mb
BBS	70.83	345	P	04	21.63	-0.1
LOMF	71.03	346	P	04	22.47	-0.5
LPF	71.11	352	eP	04	23.10	-0.2
	0.8s	18.80nm				5.2mb
LOR	71.44	348	eP	04	25.00	-0.4
	1.0s	49.00nm				5.5mb
	Z	21s	0.17um			4.3Msz
SSF	71.68	348	eP	04	26.60	-0.2
	1.1s	31.85nm				5.3mb
LBF	71.71	348	eP	04	26.90	-0.1
	1.1s	22.00nm				5.1mb
AVF	71.96	348	eP	04	28.30	-0.2
	0.9s	35.20nm				5.4mb
SMF	72.06	348	eP	04	28.70	-0.4
	1.0s	20.00nm				5.1mb
MFF	72.46	351	eP	04	31.50	0.1
	0.8s	10.75nm				4.9mb
TCF	72.57	349	eP	04	31.90	-0.2
	1.0s	22.00nm				5.1mb
MAF	72.60	349	eP	04	32.20	-0.1
	1.0s	18.00nm				5.0mb
LSF	72.67	349	eP	04	32.60	-0.1
	1.0s	30.00nm				5.2mb
PLDF	72.75	348	P	04	34.10	0.9
LPL	72.85	346	eP	04	34.40	0.4
	0.8s	9.40nm				4.8mb
LPG	72.86	346	eP	04	34.60	0.4
	0.9s	16.40nm				5.0mb
PYM	73.03	348	P	04	35.90	1.0
LBL	73.52	348	P	04	38.80	1.3
RJF	73.61	349	eP	04	38.10	-0.1
	Z	21s	0.15um			4.3Msz
CAF	73.93	349	eP	04	40.50	0.4
	1.0s	26.00nm				5.2mb
LFF	74.04	350	eP	04	40.90	0.3
	0.6s	11.70nm				5.1mb
VAY	74.18	333	eP	04	42.60	1.2
HYB	74.20	277	iPd	04	41.70	-0.3
	1.0s	35.00nm				5.3mb
LPO	74.26	349	eP	04	42.20	0.3
	0.8s	18.80nm				5.1mb
SBF	74.38	345	eP	04	42.60	-0.1
	1.0s	40.00nm				5.4mb
OHR	74.76	334	eP	04	45.50	0.5
EPF	75.97	350	eP	04	51.70	-0.1
	0.9s	13.10nm				4.9mb
GBA	78.01	276	P	05	03.30	-0.1
WB2	84.64	211	iPc	05	38.40	0.4
	1.1s	5.90nm				4.7mb
WRA	84.64	211	iPc	05	38.40	0.4
	1.1s	5.90nm				4.7mb
SPA	150.61	180	iPKPc	12	55.10	5.5X
	0.9s	14.09nm				
	S.D. = 0.8	on 115 of 118 obs.				

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* MAR 13, 1991 15h 57m 20.60± 1.23s
11.646 N ±14.2km 124.373 E ±14.0km
DEPTH = 53.4 ± 11.3 km
4.0mb (3 obs.)
LEYTE, PHILIPPINE ISLANDS (256)

PLP	0.76	129	iPc	57	35.50	0.1
			iS	57	48.00	
MAP	1.37	196	iPd	57	44.00	0.3
			iS	58	03.00	
CGP	3.19	174	eP	58	09.00	-0.4
			eS	58	46.00	
PGP	3.82	299	iPc	58	18.20	-0.1
WRA	32.89	163	iPd	03	51.40	-0.5
	1.1s	2.30nm				3.9mb
WB2	32.89	163	iPd	03	51.40	-0.5
	1.1s	2.30nm				3.9mb
ASPA	36.31	165	eP	04	22.30	1.1
	0.9s	3.70nm				4.3mb
	S.D. = 0.8	on 7 of 7 obs.				

% MAR 13, 1991 16h 08m 50.09± 2.72s
23.244 N ± 7.3km 120.113 E ±21.0km
DEPTH = 10.0km (geophysicist)
TAIWAN (244)

TWK	0.35	86	iPd	08	57.40	0.2
			eS	09	03.00	
TWM1	0.51	145	ePc	09	00.40	0.1
TWG	0.98	115	ePc	09	08.50	-0.2
			eS	09	22.20	
TWF1	1.09	84	ePc	09	10.40	-0.2
			eS	09	26.10	
TWO	1.22	33	ePc	09	12.60	-0.2
			eS	09	30.10	
TWD	1.59	58	eP	09	18.80	0.4
	S.D. = 0.3	on 6 of 6 obs.				

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* MAR 13, 1991 16h 24m 42.69± 1.26s
43.239 N ±10.3km 20.847 E ±10.1km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.3 (TTG).

IVA	0.79	242	ePg	24	56.20	-1.9
			eSg	25	06.60	
PVY	0.91	225	ePg	25	01.00	0.8
			eSg	25	11.00	
PLE	1.06	275	ePg	25	01.50	-1.3
			eSg	25	17.00	
SKO	1.34	161	iPn	25	06.20	-1.2
			iSn	25	24.00	
TTG	1.42	236	ePg	25	09.30	0.8
			eSg	25	28.00	
BEO	1.61	350	ePn	25	11.00	-0.1
			eSg	25	33.50	
BDV	1.77	238	ePg	25	15.00	1.5
			eSg	25	40.20	
HCY	1.90	246	ePn	25	17.00	1.6
			eSn	25	43.00	
OHR	2.13	181	ePn	25	16.80	-2.0
VAY	2.30	146	ePn	25	23.00	1.7
	S.D. = 1.7	on 10 of 10 obs.				

MAR 13, 1991 16h 31m 17.99± 0.69s
37.939 N ± 8.1km 121.094 E ± 9.5km
DEPTH = 33.0km (normal)
4.0mb (4 obs.)
NORTHEASTERN CHINA (658)
ML 4.3 (BJI).

DL2	1.05	23	iPgc	31	37.50	1.1
			Sg	31	50.00	
TIA	3.61	243	Pn	32	14.70	1.7
SNY	4.33	25	iPnd	32	23.00	-0.1
			Pg	32	38.00	
			Sg	33	31.40	
BJI	4.37	300	Pn	32	18.00	-5.7X
NJ2	6.15	198	ePn	32	49.00	0.0
			Sg	34	34.00	
CN2	6.72	28	ePn	32	56.20	-0.7
			iSg	34	45.00	
SSE	6.83	179	Pn	32	58.20	-0.2
	Z 18s	0.63um				
TIY	6.86	271	ePn	33	00.10	1.2
	Z 14s	0.60um				
	N 12s	0.50um				
BTO	8.99	291	eP	33	32.00	3.4X
	N 13s	0.30um				
	E 12s	0.30um				
XAN	10.60	252	eP	33	50.00	-0.7
LZH	13.91	268	eP	34	33.00	-2.1
	2.0s	25.00nm				4.6mb
	Z 14s	0.50um				4.7MszX
	E 10s	0.26um				
CD2	15.92	249	eP	35	05.60	4.4X
ILT	44.33	28	eP	39	32.00	5.9X
WRA	58.91	165	P	41	16.00	-0.1
	0.8s	1.30nm				4.1mb
WB2	58.91	165	iPd	41	20.90	4.7X
	1.1s	1.30nm				4.0mb
NB2	66.17	330	P	42	10.70	6.6X
	0.5s	0.40nm				3.8mb
	S.D. = 1.3	on 10 of 16 obs.				

MAR 13, 1991 16h 31m 37.59± 0.47s
36.194 N ± 7.2km 25.287 E ± 5.3km
DEPTH = 125.9 ± 6.9 km
4.2mb (11 obs.)
DODECANESE ISLANDS (369)

NPS	0.97	164	eP	32	01.50	1.4
VLI	1.97	286	eP	32	11.50	0.1
ATH	2.17	325	eP	32	14.00	0.1
YER	2.59	68	ePn	32	21.10	1.8
IZM	2.71	35	iPn	32	20.80	-0.1
ELL	3.77	80	iPg	32	37.00	1.9
KHL	3.99	57	ePn	32	38.00	-0.1
VLS	4.24	299	eP	32	40.00	-1.4
LIT	4.48	331	eP	32	44.60	0.0
SRS	5.09	345	eP	32	52.50	-0.4
KNT	5.30	340	eP	32	56.20	0.5
VAY	5.54	338	eP	32	59.60	0.7
PPCY	5.90	101	eP	33	03.30	-0.6
OHR	6.04	326	eP	33	03.50	-2.3
SKO	6.50	334	eP	33	11.30	-0.8
CSS	6.67	98	eP	33	13.50	-0.9
ADI	8.76	108	eP	33	41.00	-1.7
ZNT	8.98	113	eP	33	45.00	-0.7
			eS	35	19.00	
MKT	9.75	120	eP	33	55.00	-0.9
			eS	35	37.00	
MBH	10.29	126	eP	34	03.50	0.4
LBF	19.18	311	eP	35	52.90	-0.9
	0.6s	5.40nm				4.1mb
AVF	19.48	310	eP	35	56.10	-0.8
	0.5s	3.65nm				4.0mb
SSF	19.50	311	eP	35	56.50	-0.6
	0.5s	8.00nm				4.3mb
CAF	19.63	304	eP	35	58.60	0.1
	0.5s	3.30nm				4.0mb
RJF	20.12	304	eP	36	03.90	0.5
	0.5s	4.35nm				4.1mb
LPO	20.15	302	eP	36	04.60	0.8
	0.6s	7.20nm				4.2mb
MFF	21.64	307	eP	36	19.10	0.5
	0.5s	4.35nm				4.1mb
LDF	22.37	312	eP	36	26.80	1.1
	0.4s	5.15nm				4.3mb
FLN	22.66	312	eP	36	29.30	0.8
	0.4s	9.75nm				4.5mb
LPF	22.71	310	eP	36	29.90	0.8
	0.3s	3.40nm				4.2mb
GRR	22.74	311	eP	36	30.10	0.8
	0.3s	4.25nm				4.3mb
FFC	78.77	332	eP	43	40.00	12.7X
	0.7s	10.00nm				
	S.D. = 1.0	on 31 of 32 obs.				

MAR 13, 1991 16h 39m 01.00± 1.48s
44.222 N ± 4.8km 129.130 W ±12.0km
DEPTH = 10.0km (geophysicist)
OFF COAST OF OREGON (30)

KMOR	4.25	69	P	40	06.80	-0.5
DBO	4.41	102	Pd	40	07.72	-1.9
HSO	4.42	97	Pd	40	08.97	-0.8
NLO	4.43	63	P	40	10.10	0.3
ONR	4.61	53	P	40	12.28	0.0
BMW	4.73	59	P	40	13.18	-1.0
PGO	4.91	73	P	40	17.47	0.9
RVW	4.91	65	P	40	16.57	0.0
GT2	4.98	77	P	40	17.71	0.1
OFK	4.99	40	P	40	17.58	-0.1
CPW	5.03	55	P	40	17.24	-1.0
OTR	5.10	39	P	40	19.08	-0.1
			S	41	20.55	
SMW	5.10	51	P	40	18.94	-0.3
LVP	5.10	66	P	40	19.40	0.0
OSP	5.14	36	P	40	20.07	0.2
CZM	5.17	62	P	40	20.09	-0.2
FL2	5.18	65	P	40	20.76	0.2
OBC	5.18	41	P	40	20.44	-0.1
VLMM	5.21	73	P	40	21.16	0.3
			S	41	23.78	
OSD	5.22	44	P	40	20.63	-0.5
ERK	5.23	64	P	40	20.82	-0.3
SHW	5.25	66	P	40	22.60	1.0

STD	5.28	65	P	40	22.31	0.4
JLK	5.29	66	P	40	22.52	0.4
TDL	5.32	64	P	40	22.97	0.4
SOSW	5.33	65	P	40	23.35	0.6
KOSW	5.38	63	P	40	23.24	-0.1
LMW	5.40	61	Pc	40	23.69	0.1
VLL	5.44	74	P	40	24.65	0.4
VBEM	5.45	79	P	40	24.58	0.2
HDW	5.45	49	P	40	24.11	-0.2
STW	5.46	42	P	40	24.14	-0.2
APM	5.50	71	P	40	25.02	0.0
GMW	5.54	51	P	40	25.10	-0.4
VFP	5.57	76	P	40	26.33	0.3
GHW	5.57	57	P	40	26.44	0.5
GULW	5.60	70	P	40	27.11	0.6
ASR	5.67	67	P	40	27.42	0.0
BLN	5.71	46	P	40	28.05	0.1
RVC	5.71	59	P	40	27.96	-0.1
LON	5.73	61	P	40	28.19	-0.1
REMR	5.74	61	P	40	28.86	0.3
GLK	5.79	64	P	40	29.59	0.5
PGW	5.80	49	P	40	29.52	0.4
CROR	5.86	80	P	40	29.58	-0.5
WPW	5.88	62	P	40	30.43	0.1
FMW	5.89	60	P	40	30.54	-0.1
GSM	5.94	57	P	40	31.89	0.7
RMW	6.05	55	P	40	32.73	-0.1
VGB	6.08	75	P	40	33.00	-0.1
VIPM	6.11	84	P	40	33.53	-0.1
OHW	6.14	46	P	40	34.25	0.4
VTHM	6.18	78	P	40	34.20	-0.4
MCW	6.23	42	P	40	34.74	-0.5
			S	41	47.17	
HTW	6.25	52	P	40	35.59	0.0
JCW	6.38	49	P	40	37.21	-0.2
			S	41	54.10	
JBO	6.72	76	P	40	41.61	-0.6
RPW	6.76	49	P	40	42.57	-0.1
			S	42	01.41	
MBW	6.76	45	Pd	40	43.37	0.5
ETW	7.01	58	P	40	45.45	-0.8
EPH	7.36	61	P	40	50.69	-0.5
CMB	9.04	130	e(P)	41	15.00	0.5
NEW	9.25	60	e(P)	41	17.30	-0.1
PV09	16.05	104	eP	42	49.30	0.7
RSSD	17.99	82	e(P)	43	13.20	0.4

S.D. = 0.5 on 65 of 65 obs.

? MAR 13, 1991 17h 29m 04.87± 3.27s
15.558 N ±11.5km 60.608 W ±33.3km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)
ML 2.5 (FDF).

BBL	0.84	268	eP	29	19.60	-0.7
			S	29	31.30	
DEG	0.87	330	eP	29	20.40	-0.3
			S	29	33.20	
FDF	0.97	213	eP	29	22.40	0.2
			S	29	34.40	
DOG	1.08	296	eP	29	24.60	0.8
			S	29	38.70	

S.D. = 1.1 on 4 of 4 obs.

MAR 13, 1991 17h 38m 44.63± 0.92s
41.140 N ± 7.8km 23.209 E ± 5.9km
DEPTH = 10.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)
MD 2.7 (THE).

KNT	0.24	275	iPd	38	49.34	-0.3
SRS	0.29	94	ePc	38	50.54	-0.2
			eS	38	54.42	
SOH	0.34	161	iPd	38	51.70	0.1
VAY	0.51	291	iPg	38	54.30	-0.8
			iSg	39	01.00	
THE	0.54	200	iPd	38	55.66	0.1
			eS	39	03.66	
GRG	0.64	254	ePd	38	56.66	-0.8
			eS	39	06.14	
LIT	1.17	208	ePc	39	06.46	-0.1
			eS	39	22.34	
PAIG	1.26	163	ePd	39	08.02	-0.1
			eS	39	24.70	
FNA	1.43	256	iPd	39	10.10	-0.6
OHR	1.82	270	ePn	39	19.00	2.7
AGG	2.22	198	iPd	39	22.00	-0.1

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

% MAR 13, 1991 18h 30m 12.43± 2.88s
23.243 N ± 7.9km 120.127 E ±21.8km
DEPTH = 10.0km (geophysicist)
TAIWAN (244)

TWK	0.33	86	iPd	30	19.60	0.3
			eS	30	25.60	
TWM1	0.50	147	ePc	30	22.60	0.1
TWG	0.97	116	ePc	30	30.70	-0.1
			eS	30	45.10	
TWF1	1.08	84	ePd	30	32.50	-0.3
			eS	30	48.60	
TWO	1.22	32	ePd	30	35.10	0.0
			eS	30	52.60	

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

% MAR 13, 1991 18h 30m 48.54± 1.38s
40.679 N ± 9.6km 29.974 E ± 9.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

HRT	0.27	302	iPg	30	54.00	-0.3
			eSg	31	02.00	
GPA	0.47	147	ePg	30	57.80	-0.2
			eSg	31	04.80	
YLV	0.47	256	iPg	30	57.50	-0.6
IZI	0.51	228	iPg	30	59.00	0.0
			eSg	31	05.00	
CTT	1.26	292	iPn	31	12.50	0.5
DST	1.49	224	ePn	31	16.00	0.6

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

MAR 13, 1991 19h 13m 37.34± 0.69s
13.951 N ± 6.1km 145.222 E ± 8.3km
DEPTH = 123.4 ± 6.6 km
4.9mb (19 obs.)
MARIANA ISLANDS (216)

PJG	0.50	224	iPc	13	55.50	-0.4
GUA	0.51	216	iPc	13	55.40	-0.6
			eS	14	07.50	
WKYJ	21.98	338	eP	18	23.70	1.4
TKSJ	22.37	335	eP	18	28.30	2.3
IIDJ	22.42	344	P	18	27.50	1.0
CHJJ	22.70	347	P	18	30.70	1.5
PMG	23.29	175	eP	18	36.00	1.0
MAT	23.36	346	eP	18	35.00	-0.5
	1.0s		70.00nm			5.0mb
MTMJ	23.50	345	P	18	37.10	0.1
YONJ	23.65	335	eP	18	39.20	0.8
OIS	34.73	189	iPc	20	17.70	0.1
WB2	35.34	198	iPc	20	22.40	-0.3
	0.8s		10.10nm			4.7mb
			ipP	20	45.70	99kmX
WRA	35.34	198	iPc	20	22.40	-0.4
	0.8s		10.10nm			4.7mb
			ipP	20	45.70	99kmX
BJI	36.38	321	eP	20	32.00	0.8
ASPA	38.99	197	iPc	20	54.20	0.9
	0.9s		5.50nm			4.3mb
LZH	43.06	308	iPd	21	28.50	1.7
	1.5s		31.00nm			4.8mb
			pP	21	58.50	133kmX
			sP	22	08.00	
KLY	43.96	13	eP	21	33.70	0.2
STK	45.70	184	eP	22	07.70	20.1X
	0.4s		2.00nm			
TOO	51.25	180	eP	22	32.00	1.6
			e	22	56.00	
GUN	56.66	294	P	23	10.26	-0 4
	1.0s		30.00nm			5.2mb
PKI	57.07	294	P	23	12.34	-1.2
KKN	57.18	294	P	23	13.56	-0.6
	1.0s		13.00nm			4.9mb
DMN	57.34	294	P	23	14.66	-0.6
	0.9s		18.00nm			5.0mb
GKN	57.76	294	P	23	17.44	-0.7
ILT	58.76	15	eP	23	22.00	-2.2
ANM	60.73	22	P	23	37.20	-0.6
SVW	63.18	28	P	23	53.90	-0.3
	0.8s		27.59nm			5.2mb
RSO	64.29	29	P	23	59.70	-2.0
SLKM	65.51	29	P	24	08.30	-0.9
PMR	66.31	28	P	24	12.50	-1.7
	0.8s		18.62nm			5.1mb

BALM	69.40	30	P	24	32.10	-1.5
INK	73.90	22	eP	24	59.00	-1.1
MBC	77.84	14	ePd	25	21.50	-0.7
	1.0s		6.00nm			4.3mb
YKA	82.38	27	eP	25	45.20	-1.3
	0.7s		3.70nm			4.3mb
WDC	82.74	50	ePc	25	50.20	1.4
PNT	82.88	41	ePc	25	50.00	0.6
	0.8s		27.00nm			5.2mb
MIN	83.49	50	e(P)	25	51.50	-1.4
BRK	83.53	53	e(P)	25	51.10	-1.8
ORV	83.74	51	e(P)	25	54.10	0.1
MHC	84.13	53	eP	25	57.40	1.3
PRS	84.57	54	eP	25	59.40	1.2
NEW	84.73	42	P	25	59.30	0.5
	1.0s		50.00nm			5.4mb
CMB	84.94	52	ePc	26	01.10	1.1
PRI	85.16	54	eP	26	03.00	1.7
FRI	85.71	53	ePc	26	04.90	1.1
TNP	87.34	52	P	26	12.90	0.9
	0.8s		7.35nm			4.7mb
SES	87.91	38	ePc	26	15.00	0.7
LRM	88.49	43	ePc	26	18.40	0.9
PEC	88.52	56	P	26	17.90	0.4
FFC	91.32	32	iPd	26	30.50	0.4
	0.8s		15.00nm			5.2mb
BW06	91.47	45	P	26	31.60	0.3
	0.8s		3.57nm			4.6mb
PV09	93.26	49	P	26	40.00	0.2
RSSD	94.67	43	P	26	45.40	-0.6
	0.7s		12.11nm			5.4mb
ALQ	96.55	52	eP	26	55.50	0.8
	0.9s		2.52nm			4.7mb
BCAO	124.05	285	iPKPd	32	24.10	0.4
	0.8s		7.00nm			
KIC	144.00	302	PKPd	32	58.88	-1.9
TIC	144.07	303	PKP	32	59.00	-1.9
LIC	144.31	302	PKPd	32	59.96	-1.4
ZOBO	147.74	98	PKP	33	12.00	4.4X
LPB	147.77	99	ePKP	33	14.00	6.5X
CNCB	147.88	99	PKP	33	12.00	4.2X

S.D. = 1.2 on 57 of 61 obs.

MAR 13, 1991 19h 39m 23.35± 0.75s
39.191 N ± 5.3km 27.838 E ±10.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

DST	0.74	56	iPg	39	36.50	-1.4
			eSg	39	48.50	
IZM	0.91	210	iPg	39	39.80	-1.0
			eSg	39	52.90	
KCT	1.13	21	iPn	39	45.00	0.5
EDC	1.15	1	ePn	39	45.50	0.6
BNT	1.17	3	iPn	39	45.50	0.4
KHL	1.58	123	ePn	39	50.00	-1.5
CIN	1.60	173	iPnc	39	52.00	0.3
			iSg	40	12.00	
IZI	1.70	47	iPn	39	53.00	-0.3
ALT	1.77	94	iPn	39	56.70	2.3
YLV	1.81	40	iPn	39	53.50	-1.4
CTT	2.01	13	ePn	39	59.00	1.4
YER	2.08	170	ePn	40	00.00	1.2
HRT	2.15	40	ePn	40	03.50	3.7X
DMK	2.63	359	iPn	40	05.50	-1.0

S.D. = 1.3 on 13 of 14 obs.

MAR 13, 1991 19h 48m 29.69± 0.22s
59.707 S ± 8.5km 26.570 W ± 6.9km
DEPTH = 33.0km (normal)
5.8mb (14 obs.)
SOUTH SANDWICH ISLANDS REGION (153)

TCA	38.02	301	ePc	55	46.20	-0.1
PCH	38.77	292	ePc	55	53.20	0.6
LNV	38.92	291	iPc	55	54.00	0.3
TACH	38.95	292	iPc	55	54.50	0.5
SAN	38.98	292	iP	55	55.50	1.2
BMA	39.02	334	ePc	55	56.10	1.4
			e	56	01.30	
PEL	39.25	293	iPc	55	57.50	1.0
	1.0s		630.00nm			6.3mb
LCCH	39.39	291	ePd	55	58.50	0.9
VAO	39.40	330	iPd	55	59.80	1.9
ROCH	39.54	292	eP	56	00.30	1.1
JACH	39.59	293	eP	56	01.00	1.6
CER	39.89	69	iPc	55	57.50	-4.3X

13d 19h

	1.0s	40.00nm		5.1mb		
PPD	41.52	324 eP	56	16.00	0.7	
		e	56	29.20		
		e	56	49.70		
		e	57	16.60		
FRS	45.76	73 iPc	56	55.50	6.1X	
	1.0s	150.00nm		5.9mb		
BAO	46.72	331 ePd	56	57.50	0.2	
PDCR	48.01	343 iPc	57	02.10	-5.2X	
SIV	50.37	315 iPc	57	24.40	-1.0	
SLR	50.55	73 iPc	57	26.60	-0.3	
	0.9s	42.02nm		5.4mb		
SOB1	51.54	342 iPc	57	39.70	5.4X	
CNCB	52.27	307 iPc	57	41.60	1.1	
LPB	52.57	307 Pc	57	42.00	-0.6	
	1.0s	120.00nm		5.8mb		
ZOBO	52.82	307 ePc	57	43.55	-1.0	
		ed	57	50.66		
		S	05	08.00		
		LR	14	38.00		
ARE	54.04	303 iPc	57	53.60	0.4	
BUL	55.46	69 iPc	58	05.80	2.4	
	1.0s	55.00nm		5.5mb		
		i	58	35.50		
NPA	64.94	77 iPc	59	09.00	0.9	
LIC	67.92	23 Pc	59	27.84	0.9	
	0.6s	117.50nm		6.2mb		
KIC	68.11	23 Pc	59	28.80	0.7	
	0.7s	101.00nm		6.0mb		
TIC	68.33	23 Pc	59	30.36	0.8	
KUK	68.90	28 eP	59	33.50	0.4	
LKO	71.04	22 Pc	59	47.04	0.9	
	0.6s	81.00nm		5.9mb		
BCAO	73.11	48 iPc	00	01.00	2.6	
	0.3s	120.00nm		6.4mb		
NAI	75.75	67 iP	00	23.50	9.6X	
THZ	77.62	195 eP	00	26.50	2.7	
BBL	80.12	326 eP	00	36.00	-1.6	
PAG	80.66	326 eP	00	40.00	-0.5	
TOO	82.85	174 eP	00	53.00	1.3	
		e	01	22.00		
NWAO	82.98	150 eP	00	53.00	0.6	
BFD	83.05	171 iPc	00	54.00	1.3	
		e	01	23.00		
MUN	83.62	149 iPc	00	57.20	1.5	
BAL	85.05	149 eP	01	04.00	1.1	
FORR	87.38	158 iPc	01	17.90	3.6X	
	0.4s	44.00nm		6.1mb		
TIO	91.70	17 iPc	01	37.50	3.0X	
ASPA	95.40	162 iPc	01	52.90	1.0	
	0.6s	30.30nm		5.9mb		
WRA	99.12	162 iPd	02	08.90	0.2	
	1.1s	4.90nm		4.9mb		
WB2	99.12	162 iPd	02	08.90	0.2	
	1.1s	4.90nm		4.9mb		
HYB	112.50	94 ePKP	07	03.10	-0.7	
KHC	113.29	27 ePKP	07	03.50	-0.9	
PRU	114.32	28 ePKP	07	06.40	0.0	
ALO	114.73	297 ePKP	07	06.00	-1.9	
ANMO	114.73	297 PKP	07	06.00	-1.9	
CLL	115.20	26 iPKPc	07	07.00	-1.0	
	0.7s	6.00nm				
		e	08	31.00		
KSP	115.53	29 ePKP	07	08.40	-0.2	
EKA	116.20	15 PKP	07	10.00	0.2	
	0.7s	1.80nm				
QUE	117.27	76 ePKP	07	13.10	0.2	
MSU	120.27	295 PKP	07	17.30	-1.1	
RSSD	121.25	305 PKP	07	18.00	-2.0	
TNP	122.27	291 PKP	07	21.20	-1.0	
PRI	122.37	287 e(PKP)	07	29.40	7.1X	
BW06	122.53	300 PKP	07	20.00	-2.5	
FRI	122.59	288 ePKPd	07	27.70	5.2X	
SUE	122.85	18 iPKP	07	22.00	-0.2	
PRS	122.87	287 ePKPd	07	23.30	0.2	
HYA	123.18	18 iPKP	07	22.40	-0.4	
KVN	123.46	291 PKP	07	24.00	-0.4	
HFS	123.55	23 ePKP	07	21.70	-1.9	
	0.5s	18.50nm				
CHG	123.73	112 PKP	07	25.50	0.2	
CHTO	123.73	112 ePKP	07	24.25	-1.0	
CMB	123.75	289 ePKPd	07	24.70	-0.1	
ARN	123.76	287 PKP	07	25.00	0.2	
MHC	123.80	287 ePKPd	07	25.50	0.4	
NB2	123.92	21 PKP	07	23.90	-0.5	
	0.8s	21.20nm				
UPP	124.11	25 iPKP	07	23.60	-1.1	
DMN	124.30	93 PKP	07	26.10	-0.4	
	0.7s	39.00nm				
GKN	124.38	93 PKP	07	25.78	-0.7	
PKI	124.42	94 PKP	07	26.20	-0.6	
	0.6s	36.00nm				
BRK	124.52	287 e(PKP)	07	26.00	-0.2	
KKN	124.54	93 PKP	07	26.32	-0.5	
	0.6s	40.00nm				
GUN	124.94	94 PKP	07	27.50	-0.3	
LRM	126.21	300 ePKP	07	28.80	-0.8	
NUR	126.30	29 ePKP	07	29.00	0.0	
WDC	126.78	289 ePKP	07	28.90	-1.6	
LBFM	127.06	290 PKP	07	30.30	-1.1	
FRB	127.19	338 ePKPc	07	29.20	-1.3	
KAF	128.09	28 iPKP	07	31.80	-0.5	
	0.6s	45.50nm				
FFC	128.90	314 ePKP	07	32.00	-2.1	
	0.7s	7.00nm				
LSA	129.06	97 PKP	07	36.20	0.4	
KMI	130.93	112 PKPd	07	40.00	0.8	
PNT	132.02	298 ePKP	07	40.00	-0.3	
SOD	132.63	25 iPKP	07	39.30	-1.5	
KEV	134.69	23 ePKP	07	43.00	-1.6	
LZH	140.51	104 e(PKP)	07	46.00	-10.7X	
GTA	141.08	97 PKP	07	52.20	-5.4X	
XAN	141.30	111 iPKPc	07	52.70	-5.4X	
NJ2	144.06	125 PKPc	08	02.50	-0.3	
SSE	144.17	129 iPKPd	08	02.00	-1.0	
TIY	145.95	112 PKPd	08	06.00	0.0	
BTO	147.05	106 ePKP	08	08.00	0.3	
MBC	147.44	334 ePKP	08	04.00	-3.1X	
	1.0s	41.00nm				
HHC	148.00	107 PKPc	08	13.40	4.2X	
INK	148.77	317 iPKPc	08	12.00	2.6	
	0.8s	56.00nm				
BJI	149.56	113 ePKP	08	17.00	5.5X	
KLU	151.10	300 PKP	08	18.90	5.6X	
TOA	151.46	301 PKP	08	19.80	6.0X	
PMR	152.56	299 PKP	08	21.60	6.4X	
FBA	153.09	306 ePKP	08	22.70	6.8X	
	0.8s	106.55nm				
PDB	154.17	293 PKP	08	24.00	6.4X	
MAT	154.82	150 ePKP	08	28.00	8.9X	
SVW	155.31	295 PKP	08	27.00	7.9X	
IMA	155.75	308 ePKP	08	29.50	9.8X	
TTA	156.04	300 ePKP	08	30.20	10.1X	
CN2	156.73	121 ePKP	08	21.50	0.0	
		ePKPab	08	52.70		
ILT	165.34	316 ePKP	08	24.00	-5.6X	

S.D. = 1.1 on 87 of 112 obs.

% MAR 13, 1991 20h 08m 38.37± 0.59s
42.595 N ± 5.5km 19.181 E ± 4.7km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.3 (TTG).

TTG	0.18	160 iPgc	08	42.95	0.6	
		iSg	08	46.50		
NKY	0.26	328 iPgd	08	44.37	0.5	
		iSg	08	49.13		
BDV	0.41	220 iPgd	08	46.52	-0.2	
		iSg	08	53.90		
HCY	0.53	254 iPgc	08	48.65	-0.4	
		iSg	08	57.87		
BRY	0.56	303 iPgc	08	49.78	-0.1	
		iSg	08	58.53		
PVY	0.59	90 iPgc	08	49.95	-0.4	
		iSg	09	00.28		
IVA	0.60	62 iPgc	08	50.30	-0.2	
		iSg	09	00.18		

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

• MAR 13, 1991 20h 26m 02.39± 1.47s
28.218 S ± 8.9km 67.261 W ±14.1km
DEPTH = 202.8 ± 32.1 km
LA RIOJA PROVINCE, ARGENTINA (138)

RTRS	2.74	224 iPd	26	49.50	0.0	
		eS	27	23.70		
RTLL	3.27	198 iPc	26	55.50	-0.4	
CFA	3.48	194 ePc	26	58.30	-0.2	
		eS	27	38.90		
RTCB	3.52	202 iPd	26	59.00	0.0	
		S	27	39.10		
TCA	3.88	144 iPc	27	03.50	0.1	
		S	27	45.80		
JACH	5.30	212 eP	27	22.50	1.1	
ANT	5.32	327 eP	27	21.50	0.0	
PEL	5.73	210 eP	27	27.00	0.1	
		eS	28	31.00		
PCH	6.07	207 eP	27	32.00	0.7	
		iS	28	40.50		
LNV	6.74	211 eP	27	38.50	-1.4	

S.D. = 0.8 on 10 of 10 obs.

• MAR 13, 1991 20h 34m 31.38± 0.91s
37.631 N ± 9.2km 121.449 E ±11.4km
DEPTH = 10.0km (geophysicist)
4.0mb (3 obs.)
NORTHEASTERN CHINA (658)
ML 4.3 (BJI).

DL2	1.28	6 iPgc	34	55.20	0.1	
		Sg	35	07.50		
TIA	3.74	249 Pn	35	33.60	3.1X	
		Pg	35	43.10		
		Sg	36	31.20		
BJI	4.77	302 Pn	35	43.00	-2.0	
NJ2	5.96	202 ePn	36	02.50	0.8	
		Sg	37	49.00		
SSE	6.52	182 ePn	36	16.70	7.0X	
Z	14s	0.40um				
E	10s	0.50um				
CN2	6.87	25 ePn	36	14.80	0.2	
		Sg	38	02.00		
TIY	7.15	273 ePn	36	19.00	0.4	
Z	14s	0.50um				
N	12s	0.40um				
XAN	10.78	254 eP	37	16.30	7.4X	
GTA	17.02	283 eP	38	32.40	1.3	
	1.0s	10.00nm		3.9mb		
GUN	31.28	262 P	41	00.00	5.9X	
W82	58.54	166 iPd	44	28.70	-1.7	
	0.6s	2.60nm		4.5mb		
YKA	70.57	24 eP	45	49.10	0.9	
	0.5s	0.30nm		3.7mb		

S.D. = 1.4 on 8 of 12 obs.

& MAR 13, 1991 20h 40m 40.60s
59.828 N 150.642 W
DEPTH = 52.2km
KENAI PENINSULA, ALASKA (14)
<AEIC>.

BRLK	0.14	243 iPc	40	48.54	1.1	
		eS	40	54.76		
NNL	0.39	303 iPc	40	51.36	0.5	
CNPM	0.43	225 iPc	40	50.53	-0.8	
		eS	40	58.62		
HOM	0.53	252 iPc	40	52.18	-0.3	
SEW	0.66	65 iPd	40	53.15	-0.9	
		eS	41	03.28		
XLV	0.66	236 iPc	40	53.05	-1.0	
		eS	41	03.11		
SLKM	0.71	17 iPd	40	54.55	-0.2	
		eS	41	05.17		
NKA	0.97	342 iPd	40	59.40	1.3	
RDT	1.16	311 ePd	41	00.05	-0.7	
		S	41	15.16		
RED	1.22	300 ePc	41	00.79	-0.9	
		eS	41	16.66		
REF	1.23	304 iPc	41	00.99	-0.9	
RS2	1.24	302 eP	41	01.38	-0.6	
		eS	41	16.95		
RDN	1.26	304 iPc	41	01.28	-1.1	
		eS	41	16.87		
NCT	1.36	304 eP	41	02.85	-0.8	
		eS	41	18.88		
AUE	1.47	252 iPc	41	04.49	-0.5	
AUH	1.50	253 eP	41	05.07	-0.5	
AUI	1.50	252 eP	41	04.90	-0.6	
		eS	41	23.18		
MTU	1.52	83 ePc	41	03.95	-1.8	
SYI	1.52	217 ePc	41	04.54	-1.2	
PMS	1.52	20 ePd	41	05.49	-0.3	
SPU	1.53	333 iPd	41	05.54	-0.4	
KNIM	1.55	69 iPd	41	04.44	-1.8	
CKL	1.61	329 iPd	41	06.74	-0.4	
CRP	1.63	333 eP	41	07.18	-0.3	
SUA	1.64	358 iPd	41	07.18	-0.5	
BGL	1.68	330 ePd	41	07.90	-0.2	
NCG	1.75	335 ePd	41	08.92	-0.2	
CDD	1.78	241 ePc	41	08.35	-1.1	

PDB 1.79 270 ePc 41 08.52 -1.1
PWA 1.87 11 eP 41 10.51 -0.1
PLRM 1.92 22 ePd 41 10.45 -0.9
KNK 1.92 33 ePd 41 10.55 -0.9
MCNL 1.99 253 eP 41 11.88 -0.6
GLI 2.06 58 ePc 41 11.11 -2.2
GHO 2.12 23 eP 41 13.67 -0.7
SKT 2.20 349 eP 41 14.87 -0.6
VLZ 2.50 57 eP 41 17.78 -1.8
KLU 2.86 52 ePd 41 23.43 -1.5
38 obs. associated

% MAR 13, 1991 22h 30m 54.49± 0.59s
39.864 N ± 4.7km 28.946 E ± 5.2km
DEPTH = 5.0km (geophysicist)
TURKEY (366)

DST 0.36 224 iPg 31 00.30 -1.4
eSg 31 05.00
KCT 0.59 311 iPg 31 05.40 -1.0
iSg 31 14.40
IZI 0.62 40 iPg 31 06.90 0.0
iSg 31 15.90
YLV 0.77 25 iPg 31 08.90 -1.2
eSg 31 20.40
BNT 0.93 302 iPg 31 13.80 1.1
eSg 31 26.80
EDC 0.96 301 iPg 31 14.00 0.8
HRT 1.10 30 iPn 31 15.40 -0.3
ISK 1.20 4 ePn 31 17.90 0.5
ALT 1.21 131 ePn 31 17.80 0.2
CTT 1.34 343 iPn 31 20.00 0.3
KHL 1.60 164 ePn 31 24.50 0.9
S.D. = 1.0 on 11 of 11 obs.

• MAR 13, 1991 23h 43m 35.90± 0.76s
31.193 S ±15.1km 68.441 W ±11.6km
DEPTH = 90.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL 0.14 190 iPc 43 49.50 0.3
ZON 0.41 210 iPd 43 49.00 -1.2
eS 44 01.00
RTCB 0.42 226 iPd 43 50.80 0.4
CFA 0.45 157 ePc 43 51.30 0.8
eS 44 03.50
RTRS 1.35 319 iPc 44 00.10 0.1
eS 44 18.90
TCA 3.30 94 ePc 44 26.20 -0.3
S.D. = 0.9 on 6 of 6 obs.

MAR 14, 1991 00h 40m 34.85± 0.64s
42.393 N ± 4.8km 19.799 E ± 4.7km
DEPTH = 5.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.1 (TTG).

PVY 0.24 32 iPgc 40 39.38 -0.4
iSg 40 43.18
TTG 0.40 276 iPgc 40 42.52 -0.4
iSg 40 50.77
IVA 0.48 9 iPgd 40 44.67 0.1
iSg 40 52.27
ULC 0.59 224 iPgc 40 46.73 0.0
iSg 40 58.08
NKY 0.73 306 iPgc 40 49.95 0.6
iSg 41 03.60
BDV 0.73 262 iPgc 40 49.08 -0.3
iSg 41 03.57
HCY 0.96 274 iPgc 40 53.75 0.1
iSg 41 11.33
BRY 1.06 299 iPgd 40 55.40 0.1
iSg 41 14.87
SKO 1.29 108 ePn 41 01.80 2.6X
eSn 41 18.00
LO 41 20.60
OHR 1.48 149 ePn 41 02.50 0.2
S.D. = 0.4 on 9 of 10 obs.

• MAR 14, 1991 01h 01m 40.07± 0.81s
37.360 N ± 8.2km 30.052 E ± 7.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

BCK 0.44 77 iPg 01 49.20 0.1
iSg 01 59.20
ELL 0.62 191 iPn 01 52.50 -0.2

KHL 1.05 337 ePn 01 59.50 -0.4
YER 1.43 261 ePn 02 05.70 -0.4
CIN 1.58 279 eP 02 09.00 0.8
S.D. = 0.7 on 5 of 5 obs.

% MAR 14, 1991 01h 29m 25.99± 2.91s
23.276 N ± 8.0km 120.103 E ±21.8km
DEPTH = 10.0km (geophysicist)
TAIWAN (244)

TWK 0.35 91 iPd 29 33.50 0.2
eS 29 39.20
TWM1 0.54 147 eP 29 36.90 0.0
TWG 1.00 117 ePc 29 44.90 0.0
eS 29 59.00
TWF1 1.10 86 ePc 29 46.40 -0.2
eS 30 01.30
TWO 1.20 34 eP 29 48.40 0.0
S.D. = 0.2 on 5 of 5 obs.

• MAR 14, 1991 02h 49m 39.73± 0.80s
18.049 S ±11.1km 69.165 W ± 8.8km
DEPTH = 146.2 ± 7.8 km
4.6mb (3 obs.)
NORTHERN CHILE (123)

CNCB 1.67 43 iPd 50 13.30 1.5
LPB 1.82 34 iPd 50 13.20 -0.2
ZOBO 2.03 29 iPd 50 16.60 0.6
ARE 2.73 305 iPc 50 23.40 -0.9
iS 50 56.20
CCH 2.96 77 iPc 50 28.30 1.0
ANT 5.75 192 eP 51 03.00 -0.9
SIV 8.01 76 iPc 51 32.40 -2.1
i 52 53.00
PPD 17.23 106 eP 53 34.20 1.1
BAO 20.41 86 eP 54 06.50 -0.7
VAO 21.36 107 eP 54 15.90 -0.7
BMA 23.89 105 (P) 55 08.00 26.8X
SOB1 28.81 76 eP 55 26.10 -0.2
GOL 66.65 330 P 00 15.80 -1.1
KIC 68.02 75 Pc 00 25.00 -0.6
0.4s 5.00nm 4.7mb
LKO 68.48 72 Pc 00 27.90 -0.6
0.4s 9.50nm 5.0mb
YKA 87.87 341 eP 02 13.10 -0.2
0.5s 1.00nm 4.1mb
WB2 135.75 213 iPKPd 08 47.40 2.1
0.3s 2.20nm
WRA 135.75 213 iPKPd 08 47.40 2.1
0.3s 2.20nm
S.D. = 1.3 on 17 of 18 obs.

% MAR 14, 1991 03h 02m 20.55± 1.02s
41.723 N ±14.7km 13.966 E ± 8.0km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SDI 0.11 261 Pc 02 23.50 0.0
eSg 02 25.90
DUI 0.37 99 P 02 28.20 -0.1
eSg 02 33.70
AZI 0.48 304 P 02 29.40 -0.8
eSg 02 36.90
AQU 0.76 327 P 02 35.40 0.0
eSg 02 46.60
MNS 1.16 305 P 02 43.20 0.9
eSn 02 58.40
S.D. = 0.9 on 5 of 5 obs.

MAR 14, 1991 03h 35m 22.64± 1.71s
11.543 S ± 7.8km 166.613 E ± 9.5km
DEPTH = 164.7 ± 14.7 km
4.8mb (10 obs.)
SANTA CRUZ ISLANDS (184)

HNR 6.88 287 eP 37 01.00 -1.2
DZM 10.47 181 iPd 37 51.60 1.9
iS 39 42.00
BRS 20.43 218 iPd 39 49.30 0.5
RMO 22.45 226 iPd 40 09.40 0.8
COO 23.35 214 eP 40 19.00 1.7
CMS 27.61 221 iPc 40 56.30 -0.3
e 41 35.00 191kmX
MNG 30.00 166 P 41 16.80 -1.0
KIW 30.11 167 P 41 18.50 -0.2
PGZ 30.19 165 P 41 18.40 -1.0

TCW 30.31 169 P 41 20.60 0.1
MRW 30.42 168 P 41 20.80 -0.6
WDW 30.51 168 P 41 21.90 -0.3
MTW 30.52 167 P 41 21.20 -1.1
THZ 30.60 171 eP 41 24.40 1.3
LTZ 31.51 172 P 41 31.10 0.1
TOO 32.10 213 eP 41 36.00 -0.2
WB2 32.11 251 iPd 41 34.70 -1.7
0.9s 18.20nm 4.8mb
iPcP 44 22.10
WRA 32.12 251 P 41 48.00 11.5X
0.8s 2.00nm
ASPA 33.34 244 iPc 41 45.10 -2.0
0.7s 28.90nm 5.1mb
i 44 24.90
FORR 40.45 236 iPd 42 46.40 -0.1
0.4s 14.00nm 5.0mb
MBL 45.75 252 iPc 43 29.40 0.0
0.3s 9.00nm 4.8mb
NANU 49.84 250 eP 44 01.50 0.4
KMI 72.11 301 Pc 46 32.50 1.0
1.4s 50.00nm 5.1mb
CHG 73.20 294 iPc 46 38.50 0.8
1.0s 13.75nm 4.6mb
LZH 75.72 312 iPc 46 53.50 1.5
1.5s 42.00nm 4.9mb
pP 47 20.50 105kmX
sP 47 39.50
SPA 78.53 180 iPc 47 06.20 -0.8
1.0s 11.00nm 4.5mb
FBA 83.53 18 P 47 33.00 0.1
e 48 08.00 138kmX
GUN 87.30 299 P 47 53.26 0.6
PKI 87.62 299 P 47 54.42 0.2
DMN 87.89 299 P 47 56.10 0.7
GKN 88.39 299 P 47 57.68 0.0
GBA 91.88 283 Pc 48 13.60 -0.2
0.9s 3.30nm 4.4mb
YKA 95.02 27 eP 48 26.60 -0.7
0.4s 0.40nm 4.1mb
NB2 127.40 345 PKP 54 08.00 -1.0
0.9s 1.80nm
PDCR 145.01 132 ePKP 54 37.20 -5.5X
SOB1 145.75 126 ePKP 54 44.70 0.6
e 54 54.30
S.D. = 1.0 on 34 of 36 obs.

% MAR 14, 1991 04h 01m 34.32± 0.98s
42.446 N ± 7.7km 19.798 E ± 7.1km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.7 (TTG).

PVY 0.20 41 iPgd 01 38.78 0.0
iSg 01 42.79
TTG 0.40 268 iPgc 01 41.94 -0.5
iSg 01 48.99
IVA 0.43 10 iPgd 01 42.99 -0.2
iSg 01 50.48
ULC 0.63 220 iPgd 01 47.11 0.1
iSg 01 57.63
NKY 0.69 302 iPgd 01 47.91 -0.2
iSg 02 00.08
BDV 0.74 258 iPgc 01 48.49 -0.3
iSg 02 01.16
HCY 0.96 271 iPgc 01 53.16 0.5
iSg 02 08.88
BRY 1.03 297 iPgc 01 54.41 0.5
iSg 02 11.36
S.D. = 0.5 on 8 of 8 obs.

• MAR 14, 1991 04h 14m 38.69± 0.77s
54.204 N ±13.3km 161.493 W ±11.7km
DEPTH = 33.0km (normal)
4.6mb (18 obs.)
ALASKA PENINSULA (12)

SDN 1.28 26 iPd 15 02.80 2.5
PDB 6.87 32 eP 16 20.40 0.8
SVW 7.60 22 ePc 16 31.40 1.5
TTA 9.20 16 eP 16 51.30 -0.9
PMS 9.50 37 eP 16 55.70 -0.6
PMR 9.89 37 eP 16 59.90 -1.6
KLU 11.03 42 eP 17 15.70 -1.5
IMA 12.51 15 eP 17 36.60 -0.5
ILT 15.97 336 eP 18 24.00 1.9
INK 19.24 32 ePd 19 00.70 -1.9

14d 04h

YKA 25.43 52 eP 20 06.00 1.5
1.0s 5.40nm 4.1mb
MBC 27.13 21 ePd 20 20.00 0.0
0.8s 5.00nm 4.2mb
FRB 44.65 39 eP 22 52.00 2.7
SOD 58.59 356 iP 24 32.20 -1.8
KAF 63.86 356 iP 25 08.20 -1.4
0.4s 2.90nm 4.7mb
NB2 64.96 4 P 25 15.20 -1.6
0.9s 7.70nm 4.8mb
NUR 65.53 357 eP 25 19.00 -1.4
HFS 65.95 3 eP 25 21.30 -1.7
0.9s 15.40nm 5.1mb
EKA 69.38 13 P 25 45.00 0.4
0.7s 6.50nm 4.8mb
CLL 74.76 4 eP 26 16.00 -0.6
BRG 75.23 3 e(P) 26 19.60 0.3
KSP 75.31 1 eP 26 19.20 -0.6
MOX 75.36 5 eP 26 20.00 -0.1
PRU 76.13 3 eP 26 24.50 0.1
KHC 76.96 3 P 26 29.70 0.6
CDF 77.32 8 eP 26 31.00 -0.2
HAU 77.65 8 eP 26 32.70 -0.2
BSF 77.86 8 eP 26 33.80 -0.4
0.6s 3.60nm 4.6mb
ZST 77.97 1 eP 26 35.30 0.7
LOR 78.14 10 eP 26 35.40 -0.3
0.7s 2.75nm 4.4mb
SSF 78.31 10 eP 26 37.30 0.7
0.6s 1.80nm 4.3mb
LBF 78.44 10 eP 26 37.80 0.5
0.7s 3.30nm 4.5mb
AVF 78.56 11 eP 26 38.50 0.6
0.7s 2.75nm 4.4mb
WTTA 78.74 5 iPc 26 39.90 0.8
0.7s 5.40nm 4.7mb
i 26 58.00
SOTA 78.76 5 iPc 26 39.60 0.4
0.9s 9.80nm 4.8mb
i 26 40.50
KBA 79.00 4 iPc 26 41.50 1.0
0.9s 7.80nm 4.7mb
i 26 52.00
i 26 55.80
GUN 79.82 304 P 26 45.36 -0.2
KKN 80.21 304 P 26 47.48 0.0
0.5s 10.00nm 5.1mb
PKI 80.33 304 P 26 48.06 -0.2
0.5s 5.00nm 4.8mb
GKN 80.34 305 P 26 47.84 -0.2
DMN 80.45 304 P 26 48.74 0.0
0.4s 9.00nm 5.1mb
OHR 85.04 358 eP 27 12.50 0.6
WRA 91.92 238 P 27 45.00 0.2
0.7s 1.00nm 4.3mb
S.D. = 1.1 on 43 of 43 obs.

% MAR 14, 1991 04h 27m 46.82± 2.47s
23.229 N ± 7.0km 120.159 E ±19.3km
DEPTH = 10.0km (geophysicist)
TAIWAN (244)

TWK 0.30 83 iPd 27 53.50 0.3
eS 27 59.00
TWM1 0.47 149 eP 27 56.50 0.1
TWG 0.93 116 iPd 28 04.40 -0.2
eS 28 18.30
TWF1 1.05 83 iPd 28 06.40 -0.3
eS 28 21.70
TWQ 1.21 31 eP 28 09.30 -0.1
eS 28 26.60
TWD 1.57 57 eP 28 14.90 0.2
S.D. = 0.3 on 6 of 6 obs.

? MAR 14, 1991 05h 09m 38.23± 1.71s
40.842 N ±11.6km 139.232 E ±17.6km
DEPTH = 33.0km (normal)
NEAR WEST COAST OF HONSHU, JAPAN(226)

AOMJ 0.91 108 eP 09 54.60 -0.1
S 10 06.50
MRRJ 2.10 40 eP 10 11.70 0.0
eS 10 39.40
OFUJ 2.57 132 eP 10 18.50 0.1
MAT 4.37 191 iPc 10 44.00 0.0
S.D. = 0.1 on 4 of 4 obs.

MAR 14, 1991 05h 31m 27.88± 0.43s
47.978 N ± 6.4km 5.617 E ± 3.7km
DEPTH = 10.1 ± 3.3 km
FRANCE (538)
ML 3.2 (LDG).

VITF 0.34 46 Pg 31 35.41 0.5
Sg 31 39.56
HAU 0.49 86 Pg 31 37.80 -0.1
Sg 31 43.60
BSF 0.80 100 Pg 31 44.07 0.5
Sg 31 53.43
MOF 1.03 96 Pg 31 47.57 0.2
LOMF 1.03 127 Pn 31 48.01 0.6
Pg 31 48.56
Sg 32 02.07
ECH 1.06 76 Pn 31 47.69 -0.2
Pg 31 48.62
Sg 32 01.38
CDF 1.19 68 Pn 31 49.44 -0.7
Pg 31 51.05
WLS 1.24 69 Pn 31 50.02 -0.9
Pg 31 51.94
BBS 1.38 111 Pg 31 54.01 0.9
LOR 1.39 240 Pn 31 54.00 0.8
Pg 31 56.20
Sg 32 14.00
LBF 1.49 229 Pn 31 55.40 0.6
Pg 31 58.00
Sg 32 17.00
FEL 1.61 93 ePn 31 55.32 -1.3
GWF 1.67 52 Pn 31 55.92 -1.4
Pg 31 59.73
Sg 32 20.31
SSF 1.70 238 Pn 31 58.60 0.9
Pg 32 02.20
Sg 32 24.00
SMF 1.80 223 Pn 31 59.40 0.2
Pg 32 03.60
Sg 32 27.00
AVF 1.94 233 Pn 32 01.60 0.4
Pg 32 06.40
Sg 32 31.40
SLE 1.95 95 ePc 32 00.20 -1.1
RUP 1.97 28 ePn 32 04.34 2.6
EMS 2.11 154 ePc 32 09.00 5.2X
DIX 2.26 146 ePc 32 11.80 5.7X
ABH 2.29 33 ePn 32 09.90 3.6X
BGF 2.36 234 Pn 32 07.10 -0.2
Pg 32 14.00
Sg 32 45.40
PLDF 2.43 215 Pg 32 15.52 7.2X
MMK 2.51 139 ePd 32 16.30 6.7X
LPL 2.58 162 Pg 32 17.00 6.4X
LPG 2.60 162 Pg 32 17.20 6.2X
Sg 32 49.80
MAF 2.73 231 Pn 32 12.00 -0.5
Pg 32 20.70
Sg 32 56.00
PYM 2.86 220 Pg 32 23.26 8.9X
TCF 2.88 235 Pn 32 14.20 -0.4
Pg 32 23.40
Sg 33 00.40
LBL 3.20 212 Pn 32 18.34 -0.7
Pg 32 29.68
Sg 33 10.32
LSF 3.28 240 Pg 32 30.80 10.4X
OSS 3.34 111 ePd 32 22.50 1.2
LDF 3.88 281 Pg 32 41.80 13.0X
Sg 33 32.40
RJF 3.89 228 Pg 32 42.40 13.4X
Sg 33 32.40
CAF 3.92 220 Pn 32 28.60 -0.8
Pg 32 42.60
Sg 33 32.60
FLN 4.14 283 Pg 32 47.60 15.1X
Sg 33 41.00
GRR 4.35 278 Pn 32 34.30 -1.2
Pg 32 50.80
Sg 33 47.00
LPO 4.50 225 Pg 32 54.00 16.4X
S.D. = 1.0 on 25 of 38 obs.

& MAR 14, 1991 05h 52m 47.80s
38.525 N 122.268 W
DEPTH = 6.0km
NORTHERN CALIFORNIA (36)

<BRK>. ML 3.1 (BRK).
Mo=6.2•10••13 Nm (BRK).

NWRM 0.49 262 eP 52 57.00 -0.7
ZSP 0.58 179 ePd 52 59.50 0.1
iS 53 11.40
BKS 0.65 178 iPd 53 00.40 -0.4
eS 53 10.40
BRK 0.65 179 ePd 53 00.40 -0.4
eS 53 10.20
PCC 1.03 185 eP 53 06.70 -0.9
e(S) 53 21.80
ORV 1.19 30 e(P) 53 06.70 -3.7
e 53 11.10
MHC 1.28 157 eP 53 10.30 -1.7
ARN 1.31 153 eP 53 10.40 -2.0
GCC 1.51 172 e(P) 53 18.70 3.3
CMB 1.56 108 eP 53 13.80 -2.4
e(S) 53 34.40
SAO 1.87 159 eP 53 17.70 -3.0
WDC 2.06 354 e(P) 53 20.20 -3.2
LLA 2.18 151 e(P) 53 22.60 -2.5
PRS 2.30 162 e(P) 53 24.70 -2.2
FRI 2.54 126 eP 53 28.50 -1.7
LBFM 2.83 6 eP 53 33.50 -1.1
KVN 3.30 80 eP 53 38.50 -2.7
17 obs. associated

MAR 14, 1991 06h 35m 02.84± 0.75s
40.147 N ± 7.0km 19.802 E ± 8.5km
DEPTH = 10.0km (geophysicist)
3.4mb (2 obs.)
ALBANIA (391)
MD 3.4 (ATH).

KEK 0.43 180 ePb 35 11.40 -0.3
OHR 1.23 38 iPn 35 24.90 -0.8
iSn 35 43.30
LQ 35 50.30
LR 35 51.00
LCI 1.43 278 P 35 29.60 0.8
eSn 35 52.50
KZN 1.52 83 ePb 35 30.00 -0.1
VLS 2.06 162 ePn 35 38.00 0.1
SKO 2.20 34 iPn 35 41.50 1.5
iSn 36 06.90
iSg 36 09.20
i 36 11.80
LQ 36 22.50
MGR 3.26 271 P 36 07.50 12.5X
eSn 36 58.00
MMB 3.31 63 ePd 35 57.00 1.3
eSg 36 37.00
KDZ 4.51 69 eP 36 12.00 -0.8
HFS 20.37 351 eP 39 38.60 -3.4X
0.4s 0.80nm 3.4mb
NB2 21.58 349 P 39 52.70 -1.8
0.7s 1.30nm 3.4mb
S.D. = 1.2 on 9 of 11 obs.

& MAR 14, 1991 06h 57m 15.55s
60.116 N 153.574 W
DEPTH = 163.1km
2.5mb (1 obs.)
SOUTHERN ALASKA (2)
<AEIC>.

PDB 0.45 224 iPc 57 37.30 0.5
eS 57 54.09
RED 0.50 52 iPc 57 37.78 -1.0
eS 57 55.30
RS2 0.54 49 iPc 57 38.23 -0.9
RSO 0.54 49 iPc 57 38.22 -0.9
NCT 0.55 35 iPc 57 38.16 -0.9
eS 57 55.73
RDN 0.57 45 iPc 57 38.32 -0.8
REF 0.57 49 iPc 57 38.42 -0.8
RDT 0.74 51 iPc 57 39.04 -1.0
AUE 0.77 172 ePc 57 39.29 -0.8
AUI 0.79 175 eP 57 39.26 -1.0
eS 57 57.92
MCNL 1.01 203 ePd 57 40.83 -1.1
HOM 1.08 114 ePd 57 41.86 -0.6
eS 58 01.34
NNL 1.14 93 ePc 57 42.75 -0.3
XLV 1.15 125 eP 57 41.87 -1.2
CDD 1.19 182 iPd 57 42.30 -1.2

```
                    eS     58 03.18
CKL      1.24  29 iPc     57 43.46   -0.6
BGL      1.29  26 iPc     57 44.15   -0.4
SPU      1.31  34 iPc     57 43.62   -1.0
                    eS     58 06.40
NKA      1.32  60 eP      57 44.68    0.1
CNPM     1.32 116 iPc     57 43.69   -1.0
                    eS     58 05.03
CRP      1.35  31 ePc     57 44.46   -0.7
BRLK     1.40 103 iPc     57 44.63   -0.8
                    eS     58 05.88
NCG      1.47  28 ePc     57 45.65   -0.6
SYI      1.63 158 ePc     57 46.23   -1.5
SLKM     1.71  75 iPc     57 47.24   -1.5
SUA      1.94  45 eP      57 49.79   -1.5
SEW      2.07  89 eP      57 51.42   -1.1
SKT      2.12  27 ePd     57 52.35   -0.9
PMS      2.28  58 eP      57 52.80   -2.3
PWA      2.37  48 eP      57 56.11   -0.1
PLRM     2.63  54 eP      57 56.44   -2.9
GHO      2.81  52 ePc     57 58.92   -2.8
KNK      2.83  60 eP      57 59.01   -2.8
KNIM     2.92  83 eP      58 00.58   -2.4
MTU      2.97  90 eP      58 02.28   -1.3
VZW      3.59  72 eP      58 09.05   -2.5
VLZ      3.71  71 eP      58 10.46   -2.5
YKA     18.67  66 eP      01 20.30   -2.8
        0.4s      0.10nm              2.5mb
        38 obs. associated
-----------------------------------------
%  MAR  14, 1991  07h 31m 16.61± 2.53s
   23.237 N ± 7.1km   120.146 E ±19.7km
   DEPTH =  10.0km  (geophysicist)
 TAIWAN                              (244)

TWK      0.32  85 iPd     31 23.40    0.2
                    eS     31 28.40
TWM1     0.48 148 ePd     31 26.50    0.1
TWG      0.95 116 iPd     31 34.50   -0.2
                    eS     31 48.60
TWF1     1.06  84 ePc     31 36.40   -0.3
                    eS     31 52.10
TWO      1.21  31 ePd     31 39.00   -0.2
TWD      1.57  57 ePc     31 44.90    0.3
      S.D. = 0.3  on   6 of   6 obs.
-----------------------------------------
%  MAR  14, 1991  07h 59m 37.11± 0.96s
   40.687 N ± 6.7km   29.812 E ± 7.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)

HRT      0.17 321 iPg     59 41.10    0.0
GBZT     0.30 290 ePg     59 42.50   -0.8
                 iSg     59 47.20
YLV      0.35 250 iPg     59 44.00   -0.4
                 iSg     59 48.50
IZI      0.43 217 ePg     59 46.00    0.0
GPA      0.55 136 iPg     59 48.00   -0.2
                 eSg     59 55.00
ISK      0.68 304 ePg     59 49.10   -1.6
                 eSg     59 59.60
CTT      1.14 294 iPg     59 59.10    0.6
                 iSg     00 14.10
DST      1.41 220 ePn     00 02.60   -0.3
DMK      1.92 307 ePn     00 11.20    1.1
KGT      1.93 264 ePn     00 11.50    1.3
      S.D. = 1.0  on  10 of  10 obs.
-----------------------------------------
*  MAR  14, 1991  08h 23m 59.25± 0.67s
   3.992 S ±10.2km  135.520 E ±10.4km
   DEPTH =  33.0km  (normal)
   4.8mb (  5 obs.)
 WEST IRIAN REGION                   (196)

AAI      7.32 272 ePd     25 47.50    1.0
MNDI     8.39 105 eP      26 03.00    1.3
MTN      9.81 206 eP      26 22.80    1.7
        0.3s   152.00nm              6.7mb X
                 eS     28 11.00
PMG     12.74 116 eP      27 00.00   -1.0
WB2     15.90 184 eP      27 39.90   -2.4
        0.7s    14.60nm              4.2mb
                 eS     30 29.40
QIS     16.94 167 e(P)    27 53.00   -2.5
                 i      27 57.00
                 i      30 56.00
                 i      33 01.00
CTA     19.12 148 iPd     28 24.20    1.9
        1.1s    56.96nm              4.7mb
ASPA    19.62 184 iPc     28 29.90    1.7
        0.8s   115.20nm              5.2mb
                 iS     31 59.70
WARB    23.65 200 eP      29 12.00    3.4X
        0.4s     6.00nm              4.5mb
RMO     25.71 152 e(P)    29 35.00    6.6X
                 e      29 47.00
                 e      36 40.00
                 e      37 43.00
LZH     49.67 326 eP      32 51.50    1.2
        1.0s    25.00nm              5.2mb
GUN     57.35 307 P       33 46.60   -0.7
PKI     57.58 306 P       33 47.20   -1.7
KKN     57.78 306 P       33 50.20    0.0
DMN     57.84 306 P       33 50.20   -0.5
GKN     58.38 306 P       33 54.20   -0.1
FBA     87.97  25 P       36 47.00    0.1
CNCB   148.91 132 ePKP    43 48.00    5.1X
LPB    149.00 132 PKP     43 48.00    5.2X
ZOBO   149.15 131 PKP     43 50.00    6.7X
CCH    149.86 135 (PKP)   43 50.00    6.0X
      S.D. = 1.6  on  15 of  21 obs.
-----------------------------------------
&  MAR  14, 1991  09h 28m 41.24s
   60.952 N          150.966 W
   DEPTH =  15.4km
 KENAI PENINSULA, ALASKA             ( 14)
      <AEIC>. ML 3.0 (PMR).

NKA      0.25 213 iPd     28 48.74    1.9
SUA      0.52  12 iPc     28 51.56   -0.1
                 iS     28 59.71
SLKM     0.58 140 iPd     28 51.81   -0.7
SPU      0.58 294 iPd     28 51.98   -0.6
CRP      0.66 299 iPd     28 53.62   -0.4
CKL      0.71 291 iPd     28 54.18   -0.7
NCG      0.73 309 iPd     28 54.71   -0.5
PMS      0.74  66 iPd     28 54.60   -0.8
BGL      0.76 295 iPd     28 55.07   -0.6
RDT      0.80 242 iPd     28 55.65   -0.7
                 iS     29 06.51
PWA      0.88  36 iPd     28 57.30   -0.3
NNL      0.93 190 iPc     28 58.96    0.5
REF      0.97 242 iPd     28 58.51   -0.8
RDN      0.99 244 iPd     28 58.37   -1.2
RSO      1.01 242 iPd     28 59.05   -0.9
RS2      1.01 242 iPd     28 59.09   -0.9
RED      1.04 240 iPd     28 59.38   -1.0
                 eS     29 13.07
NCT      1.04 249 iPd     28 59.39   -1.1
                 eS     29 13.00
SKT      1.07 346 iPc     29 00.33   -0.5
                 eS     29 14.46
PLRM     1.09  53 iPd     28 59.67   -1.6
                 eS     29 13.91
PMR      1.09  53 iPd     28 59.70   -1.6
SEW      1.13 138 ePc     29 00.95   -1.0
BRLK     1.19 178 ePc     29 01.74   -1.3
GHO      1.28  49 ePd     29 03.15   -1.4
                 eS     29 21.01
KNK      1.30  68 ePd     29 03.73   -1.0
HOM      1.34 195 ePc     29 04.87   -0.4
CNPM     1.44 185 iPc     29 05.54   -1.1
                 eS     29 24.03
CUT      1.50  13 ePc     29 07.41    0.0
KNIM     1.70 109 eP      29 09.53   -0.9
GLI      1.89  91 ePc     29 12.58   -0.7
MTU      1.91 119 eP      29 12.59   -0.8
PDB      1.98 235 ePc     29 13.72   -0.8
AUE      2.00 218 eP      29 14.41   -0.4
AUH      2.02 219 eP      29 15.62    0.5
AUI      2.04 218 eP      29 14.49   -0.8
VZW      2.15  85 ePc     29 16.94   -0.1
VLZ      2.26  83 eP      29 18.31   -0.2
SVW      2.27 276 iPd     29 17.50   -1.3
CDD      2.44 215 ePc     29 20.64   -0.4
MCNL     2.45 225 eP      29 21.07   -0.1
SYI      2.46 198 eP      29 21.94    0.7
KLU      2.50  75 ePc     29 21.83   -0.2
TOA      2.57  61 ePd     29 24.10    1.1
TZL      2.87  65 eP      29 27.66    0.4
TTA      3.10 312 eP      29 29.90   -0.6
FBA      4.22  19 eP      29 48.00    1.7
IMA      5.28 348 eP      30 01.90    0.4
YKA     17.15  69 eP      32 41.40    0.0
        0.7s     0.20nm              2.4mb
        48 obs. associated
-----------------------------------------
?  MAR  14, 1991  09h 30m 08.93± 2.72s
   17.945 S ±46.1km   69.523 W ±13.8km
   DEPTH = 153.2 ± 15.0 km
   4.3mb (  2 obs.)
 PERU-BOLIVIA BORDER REGION          (118)

CNCB     1.86  53 iPd     30 45.00    1.4
LPB      1.96  44 iPc     30 44.00   -0.6
ZOBO     2.14  39 iPd     30 47.00    0.1
ARE      2.39 308 iPd     30 49.00   -0.6
                 iS     31 16.50
CCH      3.27  81 iPc     31 02.00    1.2
SIV      8.32  78 iPc     32 05.20   -2.6
LIC     68.00  75 P       40 54.00    0.0
KIC     68.32  75 P       40 56.10    0.2
LKO     68.77  72 Pd      40 58.94    0.2
        0.5s     7.00nm              4.8mb
YKA     87.66 341 eP      42 41.20    0.5
        0.5s     0.60nm              3.8mb
      S.D. = 1.4  on  10 of  10 obs.
-----------------------------------------
&  MAR  14, 1991  09h 48m 25.50s
   37.207 N          122.100 W
   DEPTH =  11.0km
 CENTRAL CALIFORNIA                  ( 39)
      <BRK>. ML 1.5 (BRK).

GCC      0.20 155 iPc     48 29.40   -0.5
                 eS     48 32.30
PCC      0.37 323 eP      48 32.90   -0.2
MHC      0.39  70 iPd     48 33.40   -0.2
                 eS     48 39.50
ARN      0.47  72 iPc     48 34.60   -0.6
BKS      0.68 351 e(P)    48 38.10   -0.7
BRK      0.68 349 e(P)    48 38.00   -0.8
                 eS     48 48.00
SAO      0.69 130 iPd     48 37.40   -1.6
ZSP      0.75 350 eP      48 40.20    0.2
                 eS     48 51.00
PRS      1.05 146 eP      48 44.50   -0.8
                 eS     48 58.10
LLA      1.10 122 ePc     48 45.00   -1.1
      10 obs. associated
-----------------------------------------
%  MAR  14, 1991  11h 50m 05.92± 0.80s
   40.393 N ± 7.7km   27.897 E ± 6.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)

BNT      0.04 154 iPg     50 07.40   -0.6
                 eSg    50 08.00
EDC      0.05 209 iPg     50 07.50   -0.6
KGT      0.46 278 iPg     50 15.30    0.1
CTT      0.86  28 ePn     50 22.90    0.5
DST      0.97 144 ePn     50 25.60    1.3
YLV      1.14  81 iPn     50 26.30   -1.0
      S.D. = 1.1  on   6 of   6 obs.
-----------------------------------------
?  MAR  14, 1991  11h 58m 01.55± 1.50s
   16.859 N ±28.0km   94.092 W ±11.1km
   DEPTH = 157.9 ± 16.1 km
 OAXACA, MEXICO                      ( 60)

SCX      1.40  95 iP      58 31.25    0.2
                 iS     58 51.50
OXX      2.53 275 eP      58 43.00   -1.1
                 iS     59 13.50
LVVM     3.63 322 eP      58 57.00   -0.9
                 iS     59 36.50
IISM     3.78 305 eP      58 59.50   -0.2
                 iS     59 41.00
IIT      4.55 299 eP      59 11.50    1.2
PPM      4.84 298 iP      59 15.50    1.2
III      5.34 287 eP      59 20.50   -0.2
YKA     47.80 347 eP      06 24.20   -0.3
        0.4s     0.10nm              2.8mb
      S.D. = 1.1  on   8 of   8 obs.
-----------------------------------------
?  MAR  14, 1991  12h 18m 12.16± 1.25s
   30.653 S ±14.3km  117.195 E ± 7.9km
   DEPTH =  10.0km  (geophysicist)
 WESTERN AUSTRALIA                   (590)

BAL      0.42 276 iPd     18 21.00    0.2
```

14d 12h

			iS	18 26.00		
KLB	1.05	153	iPd	18 32.40	0.4	
			iS	18 45.00		
MUN	1.57	212	eP	18 39.70	-0.4	
			eS	18 58.70		
COOL	3.41	95	eP	19 06.30	-0.1	
			eS	19 45.30		

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

% MAR 14, 1991 12h 55m 14.01± 0.74s
39.231 N ± 5.6km 27.841 E ± 8.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

DST	0.72	58	ePg	55 28.60	0.5	
			eSg	55 42.10		
IZM	0.95	209	ePn	55 32.30	0.2	
EDC	1.11	1	ePn	55 35.00	0.1	
BNT	1.13	3	ePn	55 34.80	-0.3	
KGT	1.29	341	ePn	55 37.80	-0.1	
KHL	1.60	124	ePn	55 42.00	-0.4	

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

& MAR 14, 1991 13h 28m 58.04s
66.685 N 147.139 W
DEPTH = 29.3km
3.1mb (1 obs.)
ALASKA (676)
<AEIC>.

GLM	1.71	184	eP	29 26.17	-0.1	
			S	29 47.81		
MDM	1.79	195	iP	29 27.38	-0.1	
FBA	1.81	189	iPc	29 27.80	0.1	
RDS	1.91	193	eP	29 29.08	-0.1	
			S	29 54.35		
CCB	2.07	188	eP	29 30.87	-0.5	
WRH	2.26	191	eP	29 33.60	-0.5	
			S	30 02.13		
NEA	2.26	202	eP	29 33.75	-0.4	
HDA	2.29	178	eP	29 34.46	-0.1	
			S	30 02.55		
BWN	2.70	202	eP	29 39.84	-0.6	
IMA	2.71	260	ePc	29 40.60	0.0	
DDM	2.96	169	eP	29 43.53	-0.6	
MCK	3.06	195	eP	29 45.36	-0.2	
RND	3.37	193	eP	29 49.62	-0.4	
PAX	3.80	168	eP	29 54.94	-1.1	
TMW	3.80	151	eP	29 53.32	-2.7	
SDG	4.23	170	eP	30 00.91	-1.2	
CUT	4.50	199	eP	30 06.10	0.1	
TOA	4.62	174	eP	30 07.40	-0.3	
TZL	4.72	170	eP	30 07.66	-1.4	
PMR	5.19	191	eP	30 15.40	-0.2	
TTA	5.34	229	eP	30 16.60	-1.3	
INK	5.48	67	P	30 12.00	-7.7	
	0.4s		3.10nm		4.2mb	X
YKA	14.47	92	eP	32 17.40	-4.9	
	0.3s		0.20nm		3.1mb	

23 obs. associated

• MAR 14, 1991 13h 50m 49.05± 0.41s
19.380 S ±17.7km 167.792 E ±14.2km
DEPTH = 33.0km (normal)
5.0mb (3 obs.)
VANUATU ISLANDS REGION (185)

DZM	2.96	205	iPc	51 33.00	-1.9	
			iS	52 07.00		
COO	18.20	229	eP	55 03.00	2.1	
RMQ	18.89	245	eP	55 10.00	0.5	
CTA	20.29	264	iPd	55 25.20	0.4	
	1.1s		75.95nm		5.0mb	
QLP	22.82	247	iPd	55 51.20	0.9	
			i	55 56.00		
CMS	23.16	234	eP	55 54.00	0.4	
			i	56 06.00		
ASPA	31.77	256	iPc	57 10.80	-1.9	
	0.6s		13.70nm		5.0mb	
Z	23s		0.23um		3.8MszX	
PRS	86.81	50	ePc	03 32.30	0.8	
SAO	86.95	49	e(P)	03 32.10	-0.1	
PRI	87.24	50	e(P)	03 38.10	4.4X	
WDC	87.93	46	ePc	03 37.50	0.7	
ORV	88.17	47	ePc	03 38.30	0.3	
CMB	88.27	49	ePc	03 38.90	0.3	
FRI	88.30	50	ePc	03 38.90	0.3	
MIN	88.46	46	ePc	03 39.60	0.1	
ISA	88.63	51	eP	03 41.00	0.6	
SBB	88.71	53	eP	03 41.00	0.2	
PLM	88.89	54	eP	03 42.00	0.2	
CLC	89.34	52	eP	03 44.00	0.2	
TPC	89.81	54	eP	03 46.00	0.0	
GLA	90.34	55	eP	03 37.00	-11.4X	
FBA	90.61	17	ePc	03 46.70	-2.2	
	1.0s		11.00nm		5.1mb	
KHC	143.81	331	ePKP	10 20.40	-2.1	
OHR	144.51	315	ePKP	10 21.80	-2.2	
KBA	145.37	329	ePKP	10 24.00	-1.4	
	0.9s		5.40nm			
			ic	10 25.10		
			i	10 45.00		
VBY	145.44	325	e(PKP)	10 18.60	-6.7X	
LJU	145.48	326	e(PKP)	10 25.50	0.1	
ENN	145.54	340	iPKPc	10 21.00	-4.3X	
	1.0s		22.00nm			
			id	10 36.90		
ABH	145.72	337	ePKP	10 26.01	0.3	
CEY	145.73	326	e(PKP)	10 24.50	-1.4	
VOY	145.82	327	ePKP	10 26.10	0.0	
SNF	146.28	341	PKP	10 29.50	3.0X	
BCAO	146.54	248	iPKPc	10 29.20	1 1	
	0.8s		11.00nm			
			id	10 40.30		
			id	10 50.10		
DOU	146.55	340	PKPc	10 28.80	1.8	
	0.8s		30.00nm			
			e	10 40.10		
CDF	147.03	336	ePKP	10 30.00	2.0	
	1.0s		20.00nm			
BSF	147.69	336	ePKP	10 31.60	2.5X	
HAU	147.72	336	ePKP	10 31.80	2.8X	
	0.9s		9.85nm			
FLN	149.20	345	ePKP	10 35.00	3.7X	
	0.6s		9.00nm			
LOR	149.24	338	ePKP	10 35.80	4.4X	
	0.8s		13.45nm			
LDF	149.26	344	ePKP	10 35.30	3.9X	
	0.6s		6.30nm			
LBF	149.44	338	ePKP	10 36.30	4.5X	
	0.8s		7.40nm			
SSF	149.54	339	ePKP	10 36.50	4.7X	
	0.9s		17.20nm			
LPL	149.58	333	ePKP	10 37.10	4.8X	
	0.6s		4.05nm			
LPG	149.59	333	ePKP	10 37.20	4.8X	
	0.6s		6.30nm			
GRR	149.64	345	ePKP	10 36.50	4.6X	
	1.0s		22.00nm			
AVF	149.83	338	ePKP	10 37.00	4.7X	
	1.0s		6.00nm			
LPF	150.01	345	ePKP	10 37.60	5.1X	
	0.8s		26.85nm			
BGF	150.21	339	ePKP	10 38.00	5.1X	
	0.9s		13.10nm			
MAF	150.59	339	ePKP	10 39.10	5.6X	
	1.1s		9.75nm			
TCF	150.66	339	ePKP	10 39.10	5.5X	
	0.9s		11.45nm			
LSF	150.91	340	ePKP	10 39.40	5.5X	
	0.8s		10.05nm			
MFF	151.10	343	ePKP	10 40.20	6.0X	
	1.0s		14.00nm			
RJF	151.75	339	ePKP	10 41.50	6.3X	
	0.8s		5.35nm			
CAF	151.90	338	ePKP	10 42.20	6.7X	
	1.0s		8.00nm			
LPO	152.41	339	ePKP	10 43.20	7.0X	
	1.1s		9.75nm			

S.D. = 1.2 on 30 of 55 obs.

• MAR 14, 1991 15h 00m 21 47± 1.15s
6.760 N ±16.9km 94.256 E ±14.1km
DEPTH = 33.0km (normal)
4.0mb (4 obs.)
NICOBAR ISLANDS REGION (704)

IPM	7.08	107	ePd	02 05.60	0.2	
			e	03 12.90		
CHTO	12.82	20	P	03 24.00	-0.2	
			pP	03 35.40		
PKI	22.34	339	P	05 19.08	0.7	
DMN	22.48	338	P	05 20.56	0.8	
GUN	22.48	340	P	05 18.82	-1.1	
KKN	22.58	339	P	05 21.38	0.7	
	0.8s		6.00nm		4.1mb	
GKN	23.01	338	P	05 24.32	-0.5	
WB2	47.54	125	eP	09 00.90	4.9X	
	0.8s		2.10nm		4.2mb	
HFS	79.47	330	eP	12 25.70	-0.3	
	0.4s		0.60nm		3.9mb	
NB2	80.75	331	P	12 32.60	-0.3	
	0.7s		1.10nm		4.0mb	

S.D. = 0.7 on 9 of 10 obs.

MAR 14, 1991 15h 57m 52.48± 0.13s
51.794 N ± 3.8km 175.264 W ± 2.0km
DEPTH = 39.4km (11 depth phases)
5.5mb (89 obs.) 5.1Msz (26 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS. (7)
ML 5.5 (PMR). Ms 5.2 (BRK).
Mo=3.0•10••17 Nm (PPT). Felt (IV) on Adok and Atka.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 22S, 50C
Centroid Location:
Origin Time 15:57:54.3 0.2
Lat 51.71N 0.03 Lon 175.10W 0.04
Dep 33.4 2.4 Half-duration 2.6
Moment Tensor; Scale 10••17 Nm
Mrr= 2.23 0.08 Mtt=-1.68 0.12
Mff=-0.55 0.07 Mrt= 2.52 0.23
Mrf= 2.15 0.20 Mtf=-1.15 0.10
Principal Axes:
T Val= 3.97 Plg=62 Azm=314
N 0.13 4 52
P -4.11 28 145
Best Double Couple:Mo=4.0•10••17
NP1:Strike=246 Dip=18 Slip= 105
NP2: 51 73 85

ADK	0.89	276	iPd	58 11.40	2.8	
SMY	6.60	282	eP	59 30.20	0.8	
SDN	9.47	62	eP	00 09.10	-0.3	
ANM	13.80	18	eP	01 11.00	3.5X	
PDB	14.25	48	eP	01 13.90	0.5	
SVW	14.26	42	iPd	01 15.90	2.4	
KLY	14.70	297	eP	01 23.80	4.6X	
TTA	15.17	35	eP	01 27.20	1.8	
RSO	15.19	46	e(P)	01 30.00	4.2X	
PET	15.94	285	eP	01 39.00	3.7X	
	1.5s		350.00nm		5.3mb	
Z	16s		2.10um		6.0Msz	
E	16s		2.80um			
			eS	04 24.00		
ILT	16.25	355	eP	01 43.20	4.2X	
	1.3s		380.00nm		5.4mb	
Z	18s		20.60um		4.7MszX	
N	18s		14.20um			
E	18s		7.10um			
			i	01 44.00		
			e	01 56.00		
			e	02 17.00		
			iS	04 56.00		
			e	04 59.00		
			e	05 10.00		
SLKM	16.36	48	P	01 43.20	2.6X	
PMR	17.26	45	eP	01 51.90	0.1	
Z	18s		5.20um			
IMA	17.98	29	ePc	02 03.50	2.7	
KLU	18.67	47	eP	02 08.00	-1.2	
TOA	18.75	45	eP	02 09.00	-1.3	
FBA	19.28	37	ePc	02 14.80	-1.6	
BALM	20.21	50	eP	02 24.00	-2.5X	
BRW	21.28	16	P	02 39.00	1.8	
SIT	23.57	61	eP	03 01.00	1.2	
INK	25.86	35	eP	03 21.00	-0.6	
	0.9s		72.00nm		5.2mb	
			pP	03 37.50	71kmX	
KUSJ	28.12	268	P	03 40.60	-1.9	
ASAJ	28.88	271	P	03 50.20	0.9	
HOOJ	29.39	268	eP	03 55.40	1.5	
MRRJ	30.75	270	P	04 04.80	-1.1	
OFUJ	32.30	264	P	04 19.40	-0.2	
MBC	32.40	22	iPc	04 20.80	0.7	
	0.7s		36.00nm		5.4mb	
			pP	04 33.50	49km	
PGC	32.73	75	eP	04 24.00	0.9	
MCW	33.08	74	eP	04 27.50	1.1	
GMW	33.62	76	eP	04 32.40	1.4	

BMW 33.85 78 eP 04 34.00 0.9
YAMJ 33.87 264 eP 04 33.30 0.1
RMW 34.25 76 eP 04 37.50 1.0
LON 34.58 77 eP 04 40.00 0.7
PNT 34.72 72 iPc 04 41.50 1.1
0.9s 189.00nm 6.0mb
KAKJ 35.03 261 P 04 43.30 0.1
NIIJ 35.09 264 P 04 44.20 0.5
VGB 35.81 78 eP 04 50.80 1.0
CHJJ 35.86 262 P 04 50.80 0.5
MAT 36.03 264 iPc 04 52.00 0.3
0.9s 70.59nm 5.6mb
Z 20s 1.42um 4.7Msz
eS 10 25.00
DPW 36.21 73 eP 04 54.00 0.8
MTMJ 36.25 264 P 04 55.50 1.9
NEW 36.67 72 eP 04 57.50 0.5
0.9s 245.61nm 6.1mb
MDJ 36.67 281 eP 04 57.00 0.0
Z 25s 4.10um 5 1MszX
E 20s 4.20um
PP 06 20.00
eS 10 30.00
EDM 36.67 63 iPc 04 57.50 0.5
IIDJ 36.90 262 P 05 00.20 1.2
LBFM 37.37 85 eP 05 04.40 1.3
WDC 37.41 86 ePc 05 04.30 1.1
TSRJ 38.05 264 eP 05 09.30 0.7
MIN 38.12 86 eP 05 09.00 -0.4
ORV 38.65 87 eP 05 13.50 -0.2
SES 39.19 66 iPc 05 18.40 0.3
1.2s 298.00nm 6.0mb
CN2 39.62 283 Pc 05 20.00 -1.7
5.0s 700.00nm 5.7mb X
Z 20s 12.00um 5.7Msz
N 20s 1.50um
E 20s 4.00um
pP 05 33.50 51kmX
PP 06 55.00
eS 11 19.00
CMB 40.27 88 eP 05 28.30 1.2
1.2s 43.98nm 5.1mb
LRM 40.65 73 ePc 05 30.80 0.4
PRS 40.73 91 eP 05 32.20 1.4
LLA 40.81 90 e(P) 05 33.20 1.7
PRI 41.28 90 eP 05 34.20 -1.4
FRI 41.34 89 eP 05 35.20 -0.6
BONR 41.61 86 eP 05 39.00 0.6
SHNJ 42.00 267 P 05 42.40 1.2
FFC 42.10 56 ePc 05 41.30 -0.5
0.7s 19.00nm 4.9mb
TNP 42.20 85 eP 05 43.50 0.3
0.9s 41.99nm 5.2mb
PTI 42.33 76 eP 05 45.50 1.4
ISA 42.95 89 eP 05 49.00 -0.2
KUMJ 43.24 265 P 05 52.70 1.3
CLC 43.40 88 eP 05 53.00 0.2
DUG 43.62 80 eP 05 55.30 0.6
1.0s 45.00nm 5.2mb
SBB 43.99 90 eP 05 57.00 -0.6
BW06 44.07 75 eP 05 58.50 0.1
0.9s 135.59nm 5.7mb
KAGJ 44.12 264 eP 05 59.50 0.9
PAS 44.13 91 eP 06 14.00 15.3X
MWC 44.15 90 eP 06 04.00 4.9X
GSC 44.22 88 eP 06 00.00 0.5
DAU 44.44 79 eP 06 02.40 0.9
RVR 44.73 90 eP 06 11.00 7.5X
DL2 44.81 279 Pc 06 04.00 -0.1
3.0s 800.00nm 6.0mb
Z 30s 1.50um 4.7MszX
S 12 36.00
MSU 45.05 81 P 06 07.00 0.7
PLM 45.47 90 eP 06 09.00 -0.6
RSSD 46.55 70 eP 06 17.60 -0.5
1.0s 67.79nm 5.6mb
GLA 46.94 89 eP 06 21.00 0.0
BJI 47.43 284 eP 06 25.00 0.3
5.0s 460.00nm 5.7mb X
Z 24s 4.76um 5.4MszX
N 18s 2.50um
PcP 07 54.00
PcS 11 47.00
eS 13 12.00
ScS 16 12.00
GOL 48.44 76 iPd 06 33.60 0.6
0.9s 102.27nm 5.9mb

Z 20s 1.35um 4.9Msz
GLD 48.50 75 eP 06 34.00 0.6
1.0s 70.00nm 5.6mb
Z 20s 1.50um 5.0Msz
TIA 49.29 279 Pc 06 39.50 0.3
1.4s 400.00nm 6.3mb
Z 38s 2.30um 4.9MszX
E 19s 2.10um
sP 06 55.50
PP 08 36.00
S 13 41.50
KBS 49.48 358 iPc 06 40.60 0.5
HHC 49.68 288 P 06 42.00 -0.3
S 13 46.00
GUA 49.74 235 eP 06 32.10 -10.8X
0.6s 165.33nm
e 06 41.20 30km
SSE 50.20 271 Pd 06 46.70 0.5
4.0s 1300.00nm 6.3mb X
Z 20s 0.90um 4.8Msz
E 12s 0.60um
pP 06 58.70 43km
sP 07 04.50
eS 13 58.00
BTO 50.75 288 P 06 50.00 -0.5
N 17s 1.40um
E 17s 1.10um
PcP 08 05.00
eS 13 55.00
ANMO 50.85 81 eP 06 51.30 -0.1
1.0s 27.50nm 5.2mb
ALQ 50.85 81 iPc 06 51.10 -0.3
1.1s 30.38nm 5.2mb
Z 20s 1.06um 4.9Msz
NJ2 50.99 274 Pc 06 52.30 0.1
6.0s 900.00nm 5.9mb X
Z 26s 1.30um 4.8MszX
sP 07 08.20
TIY 51.16 284 iPc 06 53.50 -0.1
5.0s 900.00nm 6.0mb X
Z 22s 3.00um 5.3Msz
E 16s 1.30um
S 14 12.00
FRB 51.50 33 ePc 06 54.60 -1.0
0.4s 22.00nm 5.5mb
WHN 54.82 276 iPc 07 20.50 -0.2
3.0s 900.00nm 6.3mb
Z 20s 0.75um 4.8Msz
sP 07 36.50
eS 15 00.00
XAN 55.73 283 iPc 07 26.40 -1.0
1.0s 60.00nm 5.6mb
N 20s 2.30um
sP 07 43.60
S 15 08.00
MEO 55.75 76 iPc 07 26.80 -0.6
QZH 56.17 268 Pc 07 30.00 -0.5
1.0s 180.00nm 6.1mb
TUL 56.65 73 ePc 07 32.40 -1.5
0.8s 50.10nm 5.6mb
Z 21s 0.59um 4.7Msz
LZH 57.37 288 iPc 07 38.00 -1.2
5.0s 510.00nm 5.8mb X
Z 22s 3.15um 5.4Msz
E 18s 1.74um
pP 07 49.50 39km
sP 07 56.00
PcP 08 32.00
PP 09 45.00
eS 15 30.00
ScS 17 23.00
GTA 57.44 294 iPc 07 38.00 -1.6
5.0s 490.00nm 5.8mb X
Z 20s 3.30um 5.4Msz
E 15s 2.20um
pP 07 49.40 39km
ScS 17 21.00
KEV 57.68 351 eP 07 53.00 12.3X
SCH 58.32 40 eP 07 44.00 -1.4
FVM 58.37 68 eP 07 44.20 -1.7
UYO 58.64 73 iPd 07 46.50 -1.4
OLY 59.48 70 eP 07 51.60 -2.0
ELC 59.54 67 eP 07 52.50 -1.5
CVP 59.57 260 eP 07 54.00 -0.4
ELF 59.78 58 P 07 55.55 -0.1
DLA 59.88 58 P 07 56.80 0.4
LDN 59.96 58 P 07 56.65 -0.2

SOD 60.02 350 iP 07 55.70 -1.3
SZP 60.53 261 eP 08 01.20 0.3
GZH 60.79 271 iPc 08 03.00 0.3
CLE 60.86 59 iP 08 02.60 -0.5
WMO 60.94 305 P 08 02.20 -1.5
1.0s 30.00nm 5.4mb
Z 24s 2.30um 5.2MszX
PcP 08 46.00
S 16 14.00
GAC 60.98 52 ePd 08 02.50 -1.2
0.9s 21.00nm 5.3mb
CD2 61.03 284 eP 08 03.40 -1.0
4.0s 900.00nm 6.3mb X
Z 22s 2.45um 5.3Msz
BAG 61.32 260 eP 08 04.00 -2.6
WVLY 61.73 57 eP 08 08.40 -0.6
PWLA 61.82 69 eP 08 08.40 -1.2
RSNY 62.28 53 eP 08 10.80 -1.7
Z 20s 2.94um 5.4Msz
QCP 62.38 258 eP 08 24.00 10.5X
GYA 62.46 278 iPc 08 13.80 -0.3
3.0s 1100.00nm 6.5mb
Z 36s 1.10um 4.8MszX
S 16 36.00
RSCP 62.81 66 eP 08 14.40 -1.8
Z 21s 1.63um 5.2Msz
GBTN 63.54 65 eP 08 20.00 -0.9
CBM 63.56 47 eP 08 19.10 -1.8
TKL 63.79 65 eP 08 21.60 -1.0
MAP 64.02 253 ePc 08 24.00 -0.3
NAV 64.25 62 eP 08 25.40 -0.2
BLA 64.53 62 eP 08 27.30 -0.2
1.0s 125.00nm 5.9mb
TBR 64.92 55 eP 08 29.00 -0.9
CVL 65.03 60 eP 08 30.80 0.2
CGP 65.08 251 eP 08 31.00 -0.2
KAF 65.16 349 iP 08 30.20 -0.9
0.9s 15.70nm 5.1mb
NA2 65.30 59 eP 08 32.20 -0.1
CBN 65.45 59 iPd 08 32.00 -1.3
1.1s 160.00nm 6.0mb
DAV 65.67 249 eP 08 27.00 -7.9X
PRM 65.73 65 eP 08 34.50 -0.6
KMI 65.84 280 Pc 08 36.00 -0.2
1.6s 300.00nm 6.1mb
Z 28s 1.50um 5.0MszX
sP 08 52.50
QIZ 65.97 271 Pc 08 37.90 1.0
0.9s 50.00nm 5.6mb
sP 08 56.50
eS 17 20.00
JSC 66.20 65 eP 08 37.80 -0 4
NUR 66.91 349 eP 08 41.00 -1.3
NB2 67.40 357 P 08 44.40 -1.0
0.9s 21.50nm 5.2mb
PPR 67.59 257 iPd 08 48.00 0.8
HFS 68.19 355 eP 08 48.70 -1.6
0.6s 21.70nm 5.4mb
Z 22s 1.36um 5.1Msz
LR 32 02.00
UPP 68.22 353 iP 08 50.70 0 3
PMG 69.00 220 eP 08 54.00 -1.8
LSA 69.36 292 iPc 08 59.40 0.9
KSH 70.04 309 eP 09 01.00 -1.1
PMO 70.65 152 eP 09 15.00 9.2X
1.2s 70.00nm 5.6mb
MNI 70.67 246 eP 09 06.00 -0.1
TPT 70.71 152 eP 09 17.00 10.8X
1.2s 85.00nm
VAH 70.95 152 eP 09 17.00 9.4X
1.2s 70.00nm 5.6mb
RUV 70.97 151 eP 09 18.00 10.2X
1.2s 80.00nm
KKM 72.05 257 eP 09 15.00 0.5
LOE 72.23 276 ePc 09 14.50 -1.0
CHG 72.88 279 iPc 09 19.30 0.0
1.1s 100.95nm 5.7mb
EKA 73.04 5 Pc 09 19.50 -0.1
0.6s 17.60nm 5.2mb
GUN 73.72 294 Pc 09 24.54 0.0
0.3s 130.00nm 6.3mb
BDT 74.03 278 iPc 09 21.80 -4.1X
1.0s 157.30nm 5.9mb
KKN 74.15 295 Pc 09 26.76 -0.1
0.6s 98.00nm 5.9mb
PKI 74.25 294 Pc 09 27.22 -0.3
1.0s 153.00nm 5.9mb

14d 16h

GKN	74.35	295	Pc	09	27.64	-0.3
DMN	74.39	295	Pc	09	28.18	-0.1
NST	74.53	276	eP	09	32.00	3.1X
DZM	75.27	198	iPc	09	32.80	-0.2
WIT	75.75	359	eP	09	31.50	-3.8X
VAL	75.87	9	eP	09	36.00	0.0
WTS	76.57	359	iPc	09	40.00	0.1
	1.0s	13.00nm			4.9mb	
CLL	77.04	355	iPc	09	41.90	-0.6
	1.6s	33.00nm			5.1mb	
		e		09	56.00	49km
NNT	77.14	274	iPc	09	44.20	0.6
KSP	77.27	353	eP	09	42.70	-1.2
		e		10	15.50	130kmX
BRG	77.41	354	iPc	09	44.10	-0.5
	1.2s	32.00nm			5.2mb	
		i		10	35.80	216kmX
		i		11	10.40	
BNS	77.60	358	iPc	09	46.00	0.4
	1.0s	51.00nm			5.5mb	
KRA	77.71	350	eP	09	45.50	-0.7
		e		09	57.50	40km
MOX	77.77	356	iPc	09	46.50	-0.1
	1.2s	32.00nm			5.2mb	
ENN	77.81	359	iPc	09	46.90	0.1
	1.0s	48.00nm			5.5mb	
NDI	77.88	301	eP	09	47.00	-0.6
SNF	78.07	0	Pc	09	48.40	0.2
PRU	78.25	354	eP	09	48.00	-1.3
Z	18s	1.00um			5.2Msz	
N	18s	1.00um				
E	18s	0.60um				
		e		09	49.00	3kmX
		e		10	38.50	
TNS	78.31	358	ePc	09	50.20	0.6
DOU	78.49	0	Pc	09	50.50	0.0
SPC	78.53	350	eP	09	50.10	-0.9
ABH	78.68	358	eP	09	51.19	-0.4
GRF	78.74	356	ePc	09	52.50	0.5
	1.0s	38.00nm			5.3mb	
Z	22s	0.50um			4.8Msz	
		ed		09	55.40	9kmX
		e		10	07.30	
CTA	79.08	217	iPc	09	54.00	-0.1
	1.1s	134.18nm			5.8mb	
		iS		19	49.00	
KHC	79.17	354	iPc	09	54.50	0.1
	1.3s	18.00nm			4.9mb	
Z	18s	1.00um			5.2Msz	
N	18s	0.70um				
E	18s	0.50um				
		e		10	05.80	37km
MTN	79.27	233	iPc	09	55.10	-0.1
	0.5s	85.00nm			6.0mb	
GWF	79.58	358	P	09	56.49	0.0
FLN	79.72	4	eP	09	57.00	-0.3
	1.0s	40.00nm			5.3mb	
Z	22s	0.90um			5.1Msz	
ZST	79.83	352	eP	09	57.60	-0.2
LDF	79.91	3	eP	09	58.00	-0.2
	1.1s	53.70nm			5.4mb	
GRR	80.08	4	eP	09	59.20	0.0
	0.9s	27.85nm			5.2mb	
SRO	80.09	351	eP	10	03.20	4.0X
WLS	80.15	358	P	09	59.59	0.0
CDF	80.15	358	P	09	59.46	-0.2
ECH	80.35	358	P	10	00.54	-0.1
VITF	80.36	359	P	10	00.92	0.3
LPF	80.43	4	eP	10	01.20	0.2
	1.1s	22.00nm			5.0mb	
HAU	80.57	359	eP	10	02.00	0.2
	1.0s	22.00nm			5.1mb	
Z	20s	1.50um			5.3Msz	
FEL	80.67	358	P	10	02.09	-0.4
MOF	80.71	358	P	10	02.53	-0.1
BSF	80.74	359	eP	10	02.80	0.0
	1.0s	18.00nm			5.0mb	
SNG	80.77	270	eP	10	04.20	0.9
	0.9s	75.63nm			5.7mb	
VRI	80.89	345	ePc	10	05.00	1.5
KUPT	80.91	241	ePd	10	21.40	17.4X
WTTA	81.15	355	iPc	10	05.30	0.2
	1.2s	32.80nm			5.2mb	
		i		10	20.40	53kmX
		i		10	34.50	
SOTA	81.21	356	iPc	10	04.90	-0.4
LOMF	81.22	359	P	10	05.49	0.2

KBA	81.23	354	iPc	10	06.00	0.5
	0 9s	35.80nm			5.3mb	
		i		10	18.10	40km
		i		10	30.00	
		i		10	32.10	
LOR	81.32	1	iPc	10	06.10	0.4
	1.1s	43.95nm			5.4mb	
Z	20s	1.67um			5.4Msz	
SSF	81.52	1	iPc	10	07.20	0.4
	1.0s	32.00nm			5.3mb	
LBF	81.60	1	iPc	10	07.20	-0.1
	1.1s	24.40nm			5.1mb	
CMP	81.74	346	ePc	10	11.00	3.0X
AVF	81.79	1	eP	10	08.40	0.2
	1.0s	32.00nm			5.3mb	
QUE	81.87	309	eP	10	09.30	0.2
		eS		20	20.00	
MFF	81.90	3	eP	10	09.20	0.5
	0.9s	13.10nm			5.0mb	
SMF	81.94	1	eP	10	09.10	0.1
	1.1s	56.15nm			5.5mb	
BGF	82.02	1	eP	10	09.60	0.2
	1.1s	85.45nm			5.7mb	
QIS	82.13	222	iPc	10	09.00	-1.2
TCF	82.28	2	iPc	10	11.00	0.2
	1.0s	16.00nm			5.0mb	
LSF	82.30	2	eP	10	11.10	0.2
	0.9s	32.75nm			5.4mb	
MAF	82.35	2	eP	10	11.60	0.5
	0.8s	12.10nm			5.0mb	
AGO	82.53	1	P	10	12.79	0.7
IPM	82.53	268	ePc	10	13.10	0.6
	1.1s	83.50nm			5.7mb	
		e		10	22.90	31km
PLDF	82.61	1	P	10	13.32	0.7
VBY	82.66	353	e(P)	10	12.60	-0.1
BEO	82.81	349	eP	10	13.00	-0.5
PYM	82.83	1	P	10	14.16	0.5
LPL	83.06	359	eP	10	16.30	1.2
LPG	83.07	359	eP	10	16.50	1.2
	1.3s	14.45nm			4.9mb	
KGM	83.11	264	ePd	10	17.10	1.6
RJF	83.24	2	eP	10	15.90	0.1
	1.3s	36.10nm			5.3mb	
Z	20s	1.10um			5.2Msz	
LBL	83.35	1	P	10	17.09	0.9
BNI	83.52	359	P	10	18.80	1.4
LFF	83.59	3	iPc	10	18.00	0.5
	1.3s	90.25nm			5.7mb	
CAF	83.63	2	iPc	10	18.50	0.7
	1.2s	38.70nm			5.4mb	
BOB	83.73	357	Pc	10	19.20	0.8
LPO	83.86	3	iPc	10	19.30	0.4
	1.1s	43.95nm			5.5mb	
WRA	83.87	227	P	10	37.00	17.8X
	1.7s	14.50nm				
RMO	84.10	212	iPc	10	20.00	-0.2
	1.0s	106.00nm			5.9mb	
PGD	84.52	355	P	10	23.80	1.3
TOUF	84.55	358	P	10	22.90	0.3
AUTN	84.56	358	P	10	22.51	-0.2
SAOF	84.57	358	P	10	21.84	-0.7
MVIF	84.67	358	P	10	20.16	-3.0X
AURF	84.67	358	P	10	22.95	-0.2
SBF	84.70	358	eP	10	23.30	0.1
	1.1s	31.75nm			5.4mb	
ARV	84.82	354	P	10	20.00	-3.8X
CDR	84.91	359	ePc	10	24.90	0.7
FRF	85.01	359	eP	10	25.10	0.4
	1.2s	29.75nm			5.3mb	
LRG	85.12	359	eP	10	26.00	0.8
Z	22s	0.85um			5.1Msz	
LMR	85.24	359	eP	10	26.40	0.6
	1.1s	29.30nm			5.4mb	
ASS	85.27	354	P	10	25.80	-0.3
EPF	85.48	3	eP	10	26.90	-0.2
	1.2s	40.05nm			5.5mb	
SKO	85.49	348	iPc	10	27.80	0.6
	1.4s	94.00nm			5.8mb	
Z	18s	1.15um			5.3Msz	
N	19s	1.20um				
E	18s	1.03um				
		i		11	05.00	147kmX
BBTK	85.53	339	eP	10	28.00	0.5
OLP	85.75	216	iPc	10	29.30	0.9
MNS	85.95	354	P	10	29.10	-0.4
PGF	85.97	357	P	10	29.45	-0.2

VAY	85.97	347	iP	10	30.20	0.7
HYB	86.11	293	iPc	10	30.00	-0.6
	1.0s	85.00nm			5.9mb	
		e		10	50.00	73kmX
OHR	86.42	348	iP	10	30.20	-1.6
	1.4s	118.00nm			5.9mb	
		i		11	08.50	151kmX
DUI	86.54	353	P	10	33.10	0.7
UPA	86.54	80	ePc	10	32.40	-0.3
Z	20s	0.43um			4.8Msz	
COO	86.94	208	ePc	10	35.70	1.5
		i		10	46.90	36km
ASPA	87.32	225	iPc	10	36.30	0.1
	1.0s	68.00nm			5.8mb	
		i		10	54.30	64kmX
		i		20	58.70	
		i		21	20.90	
POO	87.85	297	iPc	10	37.20	-1.8
	1.0s	84.00nm			6.0mb	
MGR	87.96	352	P	10	38.60	-0.6
TOL	88.38	7	eP	10	41.50	0.2
		ePP		14	20.00	
CMS	89.68	212	iPc	10	48.20	1.0
GBA	89.79	292	P	10	47.50	-0.7
STK	91.51	216	iPc	11	16.20	20.6X
	1.1s	25.20nm				
TOV	91.77	72	eP	11	00.30	2.8X
SDV	91.99	73	eP	10	59.50	0.9
MBL	92.03	238	eP	10	58.00	-0.3
KOD	92.47	290	eP	11	02.20	1.2
WARB	92.81	230	eP	11	02.50	0.7
	0.4s	5.00nm			5.3mb	
ZOBO	113.20	87	ePKP	16	27.00	-1.1
		e		17	16.00	
		SKS		27	00.00	
		LR		53	14.00	
CNCB	113.70	87	PKP	16	29.00	-0.1
SIV	117.35	81	ePKP	16	34.00	-1.3
		i		17	43.40	
LKO	118.27	12	PKPc	16	36.32	-0.8
TIC	121.19	11	PKPc	16	42.20	-0.5
KIC	121.51	11	PKPc	16	42.84	-0.5
LIC	121.61	11	PKPc	16	43.02	-0.5
Z	20s	0.44um			5.1Msz	
BCAO	122.76	344	iPKPc	16	45.20	-0.5
	0.7s	54.00nm				
		id		17	05.10	
NAI	122.92	321	ePKP	16	49.50	3.2X
SOB1	123.60	58	(PKP)	16	47.00	-0.4
SPA	141.61	180	iPKPc	17	13.50	-6.4X
	1.0s	15.00nm				
		i		17	33.80	
BUL	143.31	320	iPKPd	17	22.00	-2.3
	1.0s	35.00nm				
MAW	148.17	218	ePKP	17	34.40	3.8X
	0.9s	95.00nm				
SLR	148.43	317	iPKPc	17	30.00	-2.6
	1.0s	340.00nm				
		i		17	39.00	
FRS	153.20	317	iPKPc	17	45.50	6.2X
	1.0s	200.00nm				
CER	158.76	325	iPKPc	17	49.00	2.5
	1.0s	30.00nm				

S.D. = 0.9 on 263 of 296 obs.

& MAR 14, 1991 16h 32m 55.38s
60.724 N 151.339 W
DEPTH = 62.2km
KENAI PENINSULA, ALASKA (14)
<AEIC>.

NKA	0.05	69	iPc	33	06.27	3.2
RDT	0.55	254	iPd	33	07.54	-0.7
		iS		33	17.64	
SPU	0.58	323	iPd	33	07.95	-0.6
		eS		33	18.39	
CRP	0.67	324	ePd	33	09.40	-0.3
		eS		33	20.62	
CKL	0.68	315	ePd	33	09.10	-0.7
NNL	0.68	178	iPd	33	10.29	0.6
REF	0.71	251	iPd	33	09.59	-0.6
RDN	0.73	254	iPd	33	09.54	-0.9
		eS		33	20.85	
BGL	0.75	317	iPd	33	09.98	-0.5
		eS		33	22.00	
RSO	0.75	250	iPd	33	10.01	-0.6
		eS		33	21.24	

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RS2      0.75 250 iPd   33 10.04  -0.6
                  iS    33 21.91
RED      0.77 247 iPd   33 10.06  -0.8
                  eS    33 22.07
NCG      0.79 330 iPd   33 10.48  -0.6
                  eS    33 22.48
SUA      0.80  21 iPd   33 10.93  -0.2
                  eS    33 23.65
NCT      0.80 259 ePc   33 10.57  -0.6
                  eS    33 22.86
BRLK     0.99 167 ePd   33 12.88  -0.7
                  eS    33 26.65
PMS      1.01  58 iPc   33 13.64  -0.2
                  iS    33 28.14
HOM      1.08 188 ePd   33 14.46  -0.2
SEW      1.13 123 eP    33 14.72  -0.6
PWA      1.17  37 ePd   33 15.73  -0.1
                  eS    33 32.87
CNPM     1.20 177 iPd   33 15.63  -0.8
                  eS    33 31.71
SKT      1.26 356 iPd   33 16.69  -0.5
                  eS    33 33.39
XLV      1.29 189 eP    33 16.41  -1.1
PLRM     1.38  50 eP    33 17.89  -0.9
                  S     33 34.98
KNK      1.56  63 iPc   33 20.40  -0.9
                  S     33 40.69
GHO      1.57  47 eP    33 20.63  -0.9
                  iS    33 40.39
PDB      1.70 238 ePd   33 21.67  -1.6
                  eS    33 42.19
CUT      1.76  16 iPd   33 23.57  -0.5
KNIM     1.82 100 ePc   33 22.41  -2.5
GLI      2.09  84 ePc   33 25.85  -2.7
CDD      2.14 214 eP    33 28.53  -0.9
SYI      2.19 195 ePd   33 28.96  -1.0
HUR      2.40  19 eP    33 33.15   0.1
VLZ      2.48  78 eP    33 31.98  -2.1
KLU      2.74  71 iPc   33 35.70  -2.2
TOA      2.84  59 eP    33 38.06  -1.3
RND      2.94  22 eP    33 39.29  -1.4
PAX      3.58  48 eP    33 48.44  -1.3
DDM      4.00  37 eP    33 55.33  -0.2
HDA      4.22  27 eP    33 56.84  -1.7
CCB      4.26  21 eP    33 57.07  -2.1
FBA      4.50  20 eP    33 59.67  -2.8
        42 obs. associated
-----------------------------------------
   MAR  14, 1991  17h 09m 45.49± 0.21s
   39.614 N ± 5.2km   73.971 E ± 3.5km
   DEPTH =  33.0km  (normal)
   5.0mb ( 45 obs.)
 TAJIK-XINJIANG BORDER REGION      (719)

KSH      1.56  95 Pnd   10 10.50  -0.9
                  Sg    10 36.50
QUE     11.02 214 eP    12 23.00  -1.1
        0.8s    71.27nm          5.9mb X
                  eS    14 32.00
WMQ     11.08  63 P     12 23.00  -1.8
                  S     14 24.00
NDI     11.23 165 iPc   12 25.00  -1.7
        0.6s   100.00nm          6.2mb X
                  eS    14 26.00
GKN     14.57 139 P     13 06.62  -4.7X
        0.7s   157.00nm          5.6mb
KKN     15.07 138 P     13 12.78  -5.1X
        0.6s    73.00nm          5.1mb
DMN     15.13 139 P     13 13.88  -4.8X
GUN     15.29 136 P     13 15.40  -5.5X
        0.5s    72.00nm          5.2mb
PKI     15.32 138 P     13 15.88  -5.3X
LSA     17.22 120 P     13 46.80   1.3
     N  10s     0.59um
     E  10s     0.46um
GTA     19.92  82 eP    14 16.20  -1.2
        1.0s    10.00nm          4.1mb
     Z  16s     0.60um          4.7MszX
                  pP    14 21.20  19kmX
POO     21.01 180 iPc   14 28.20  -0.4
                  iS    22 34.00
TAB     21.56 275 e(P)  14 35.00   0.8
KER     22.06 265 ePc   14 41.50   2.3
HYB     22.47 168 eP    14 43.50   0.2
        1.0s    50.00nm          4.9mb
                  eS    18 51.00
LZH     23.80  89 eP    14 57.80   1.5
        1.8s    80.00nm          4.9mb
     Z  20s     0.63um          4.1Msz
     N  10s     0.29um
                  pP    15 08.50  41kmX
                  sP    15 14.50
CD2     25.73 100 eP    15 15.00   0.4
GBA     26.09 172 P     15 19.70   1.8X
                  S     20 09.70
BTO     27.47  76 eP    15 33.00   2.4X
KMI     28.12 112 eP    15 36.50  -0.2
XAN     28.41  90 Pc    15 38.40  -0.6
KOD     29.42 173 eP    15 48.50  -0.1
CHG     29.90 127 eP    15 55.00   2.5X
TIY     29.94  81 eP    15 54.60   1.8
BBTK    31.50 284 iPd   16 08.00   1.5
TIA     33.98  82 eP    16 29.50   1.5
WHN     34.03  93 eP    16 31.00   2.6X
VRI     34.84 296 ePc   16 35.50   0.2
NNT     35.24 133 eP    16 34.80  -4.2X
                  e     21 37.00
MLR     35.44 296 iPc   16 42.50   2.0
CMP     36.10 295 ePc   16 50.00   4.0X
KAF     36.38 324 eP    16 38.00 -10.1X
NUR     36.77 321 eP    16 52.00   0.6
BZS     38.42 297 eP    17 07.00   1.6
VAY     38.67 290 eP    17 08.40   0.8
SPC     38.82 302 eP    17 09.40   0.4
SSE     39.06  88 eP    17 11.00   0.0
SKO     39.33 291 eP    17 13.00  -0.1
OHR     40.02 290 eP    17 18.00  -0.9
SRO     40.28 301 eP    17 22.80   1.9
                  e     19 01.00
ZST     41.02 301 eP    17 28.40   1.5
                  e     19 08.50
HFS     42.14 320 eP    17 35.20  -0.8
        0.6s    15.20nm          4.9mb
     Z  17s     0.31um          4.3MszX
                  LR    34 08.00
PRU     42.38 304 P     17 38.60   0.5
                  e     19 13.50
IPM     42.60 138 ePd   17 40.80   0.6
BRG     42.62 306 iP    17 40.60   0.6
        1.4s    36.00nm          4.9mb
                  i     17 43.60
                  i     17 50.00
                  e     19 25.00
VBY     42.81 298 e(P)  17 46.00   4.3X
CLL     43.14 307 eP    17 44.00  -0.2
        1.7s    29.00nm          4.7mb
                  e     19 25.00
KHC     43.15 303 iPd   17 45.20   0.7
        1.2s    11.00nm          4.5mb
LJU     43.18 299 e(P)  17 45.00   0.4
CEY     43.32 298 e(P)  17 46.00   0.2
NB2     43.38 321 P     17 45.20  -0.9
        0.7s    15.00nm          4.9mb
VOY     43.61 299 eP    17 48.10  -0.2
TRI     43.78 298 iPc   17 49.60   0.1
MGR     44.12 290 P     17 55.90   3.6X
MOX     44.12 306 eP    17 53.00   0.8
SGO     44.16 291 P     17 53.70   1.1
GRF     44.55 305 ePc   17 57.00   1.3
        1.0s    19.00nm          4.9mb
     Z  19s     0.30um          4.2Msz
                  ic    18 00.20
                  e     18 04.80
ARV     44.94 296 P     17 59.70   0.8
MNS     45.46 294 P     18 03.50   0.4
CRE     45.59 296 P     18 06.60   2.4X
PGD     45.68 297 Pd    18 06.40   1.5
MME     46.29 297 P     18 11.40   1.6
BDI     46.40 297 P     18 13.10   2.6X
FEL     47.04 303 eP    18 15.21  -0.4
CDF     47.38 304 eP    18 17.70  -0.5
        0.9s     9.85nm          4.8mb
BSF     47.85 303 eP    18 21.40  -0.5
        1.1s    24.40nm          5.1mb
PGF     47.98 296 eP    18 22.60  -0.5
        1.0s    22.00nm          5.1mb
HAU     48.08 303 eP    18 23.10  -0.6
        1.1s    14.65nm          4.9mb
     Z  20s     0.20um          4.1Msz
LPG     48.56 300 eP    18 27.50  -0.2
        0.8s     9.40nm          4.9mb
LPL     48.57 300 eP    18 27.40  -0.3
        0.9s    14.75nm          5.0mb
RSL     48.59 300 P     18 27.37  -0.4
DOU     48.62 307 P     18 26.80  -0.9
SBF     48.62 298 eP    18 27.80  -0.2
        0.8s    25.50nm          5.3mb
BNI     48.75 300 Pd    18 29.10   0.1
FRF     49.26 298 eP    18 32.30  -0.5
        0.8s    12.10nm          5.0mb
LMR     49.44 297 eP    18 33.70  -0.4
        1.3s    25.25nm          5.1mb
LRG     49.50 298 eP    18 34.20  -0.3
     Z  19s     0.20um          4.1Msz
LOR     49.91 303 eP    18 36.40  -1.3
        0.9s     8.20nm          4.8mb
     Z  19s     0.15um          4.0Msz
LBF     49.92 303 eP    18 36.70  -1.2
        1.2s    11.90nm          4.8mb
SMF     50.12 302 eP    18 38.40  -0.9
SSF     50.20 303 eP    18 39.00  -1.0
        1.3s    14.45nm          4.8mb
AVF     50.39 303 eP    18 40.60  -0.8
        1.0s    28.00nm          5.2mb
MAF     51.09 302 eP    18 46.20  -0.5
        1.0s    20.00nm          5.0mb
TCF     51.30 302 eP    18 47.70  -0.7
        1.2s    19.35nm          4.9mb
EKA     51.72 315 P     18 50.00  -1.4
        0.8s     7.30nm          4.7mb
CAF     51.88 301 eP    18 52.40  -0.3
        1.1s    14.65nm          4.9mb
LDF     52.01 306 eP    18 52.50  -1.2
        1.0s    16.00nm          4.9mb
RJF     52.10 301 eP    18 54.10  -0.3
        1.0s    16.00nm          4.9mb
     Z  20s     0.15um          4.0Msz
FLN     52.18 306 eP    18 53.40  -1.5
        1.0s    12.00nm          4.8mb
     Z  21s     0.38um          4.4Msz
GRR     52.54 306 eP    18 56.40  -1.2
        1.0s    20.00nm          5.0mb
LPO     52.55 301 eP    18 57.20  -0.5
MFF     52.72 304 eP    18 57.90  -1.1
LFF     52.75 301 eP    18 58.80  -0.4
        0.9s    14.75nm          4.9mb
ILT     59.95  25 eP    19 51.00   0.7
MBC     64.11   4 eP    20 16.50  -1.5
        0.8s    16.00nm          5.2mb
IMA     68.44  19 eP    20 45.90   0.0
        1.0s     6.90nm          4.7mb
INK     70.44  10 eP    20 56.00  -1.9
FBA     70.81  18 eP    21 01.30   1.0
FRB     72.77 344 eP    21 11.00  -0.9
PMR     73.26  20 eP    21 15.40   0.6
TOA     73.58  18 eP    21 18.50   1.7
LKO     75.96 271 P     21 30.08  -1.1
        0.9s    17.50nm          5.1mb
KIC     77.28 268 Pd    21 38.40  -0.1
        0.9s    20.00nm          5.2mb
TIC     77.32 268 P     21 38.50  -0.2
        0.9s    15.00nm          5.0mb
LIC     77.59 268 Pd    21 40.06  -0.1
        1.0s    21.50nm          5.2mb
WRA     81.72 124 iPc   22 01.70  -0.5
        1.1s    10.50nm          4.8mb
WB2     81.73 124 iPc   22 01.70  -0.5
        1.1s    10.50nm          4.8mb
ASPA    84.18 127 iPd   22 16.10   1.3
        1.2s    12.40nm          5.0mb
FFC     85.97 358 eP    22 23.00  -0.3
        0.8s    15.00nm          5.3mb
PNT     90.64   9 eP    22 48.00   2.2
        0.6s     9.00nm          5.3mb
     S.D. =  1.0  on  94 of 110 obs.
-----------------------------------------
*  MAR  14, 1991  17h 37m 13.65± 3.92s
    1.720 S ±25.3km  100.813 E ±24.5km
    DEPTH = 107.2 ± 34.3 km
    4.7mb (  6 obs.)
 SOUTHERN SUMATERA                 (274)

KGM      4.48  34 ePd   38 20.90   0.4
IPM      6.26   2 ePd   38 44.60  -0.5
GBA     27.73 304 Pc    42 54.30   0.2
        1.0s     6.60nm          4.2mb
PKI     32.68 334 P     43 38.00  -0.1
GUN     32.77 335 P     43 39.20   0.2
DMN     32.84 334 P     43 39.60   0.1
KKN     32.92 334 P     43 40.20   0.0
        0.6s    19.00nm          5.1mb
```

14d 17h

GKN 33.39 333 P 43 44.00 -0.1
0.6s 10.00nm 4.8mb
WRA 37.44 121 P 44 19.00 0.6
0.3s 3.00nm 4.7mb
WB2 37.45 121 iPd 44 17.10 -1.4
0.3s 3.80nm 4.8mb
ASPA 38.76 127 eP 44 30.10 0.6
0.4s 4.40nm 4.6mb
S.D. = 0.7 on 11 of 11 obs.

? MAR 14, 1991 17h 49m 42.91± 2.59s
13.067 S ±21.7km 118.819 E ±22.9km
DEPTH = 33.0km (normal)
4.1mb (8 obs.)
NORTHWEST OF AUSTRALIA (588)

KUPT 5.51 59 eP 51 05.50 0.7
eS 52 11.80
MBL 8.11 173 iPd 51 42.10 0.8
eS 53 20.00
NANU 9.95 198 eP 52 01.50 -5.2X
0.2s 19.00nm 6.0mb X
eS 53 56.00
MEKA 13.48 181 eP 52 54.00 -0.3
0.3s 28.00nm 5.6mb X
eS 55 26.00
WARB 14.98 152 eP 53 16.00 2.0
0.4s 10.00nm 4.5mb
eS 56 07.50
WRA 16.37 117 eP 53 30.00 -2.0
0.3s 1.50nm 3.6mb
WB2 16.38 117 eP 53 30.00 -2.1
0.3s 1.50nm 3.6mb
BAL 17.56 186 eP 53 45.00 -1.9
0.3s 16.00nm 4.6mb
eS 56 58.00
ASPA 17.76 129 iPc 53 51.90 2.5
1.0s 4.60nm 3.6mb
S 57 13.90
COOL 17.86 173 eP 53 50.00 -0.6
0.3s 4.00nm 4.0mb
eS 57 07.00
KLB 18.46 183 eP 53 58.00 0.0
0.3s 10.00nm 4.5mb
eS 57 22.00
MUN 18.97 187 eP 54 04.00 -0.2
eS 57 34.00
FORR 19.66 156 eP 54 15.90 3.8X
eS 58 00.00
NWAO 19.82 184 eP 54 15.00 1.2
0.6s 8.00nm 4.2mb
eS 57 52.00
RKG 20.97 184 eP 54 37.00 11.3X
S.D. = 1.7 on 12 of 15 obs.

? MAR 14, 1991 18h 07m 13.38±10.52s
16.052 N ±77.9km 99.814 W ±54.0km
DEPTH = 33.0km (normal)
NEAR COAST OF GUERRERO, MEXICO (58)

ACX 0.81 357 iP 07 27.75 -0.7
iS 07 37.50
III 2.33 8 iP 07 51.50 1.1
iS 08 21.00
OXX 3.14 71 eP 08 02.00 0.2
eS 08 34.25
IISM 3.73 38 eP 08 09.50 -0.5
S.D. = 1.4 on 4 of 4 obs.

? MAR 14, 1991 18h 56m 48.73± 0.97s
44.304 N ±14.0km 7.583 E ± 6.5km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

ENR 0.14 237 P 56 52.15 0.0
S 56 53.90
STV 0.20 252 P 56 53.07 0.0
S 56 55.64
ROB 0.21 92 P 56 53.28 0.0
S 56 55.95
PZZ 0.40 300 P 56 56.97 0.0
S 57 02.72
S.D. = 0.0 on 4 of 4 obs.

MAR 14, 1991 19h 05m 21.92± 0.69s
38.370 N ± 7.0km 22.054 E ± 5.6km
DEPTH = 10.0km (geophysicist)

3.9mb (2 obs.)
GREECE (364)
MD 3.6 (ATH), 3.4 (THE).

AGG 0.69 18 eP 05 33.80 -1.7
eS 05 44.80
VLS 1.17 261 ePg 05 41.50 -2.3
ATH 1.37 106 ePb 05 48.00 1.0
LIT 1.76 11 iP 05 52.48 -0.2
eS 06 16.80
IGT 1.77 311 ePd 05 55.12 2.3
VLI 1.79 157 ePb 05 53.00 -0.1
KZN 1.95 354 ePn 05 55.50 0.1
PAIG 2.00 39 ePc 05 54.20 -1.9
KEK 2.21 308 ePg 06 05.00 5.8X
THE 2.37 17 eP 06 02.00 0.6
eS 06 31.20
GRG 2.60 6 ePc 06 04.96 0.3
SOH 2.65 22 eP 06 05.00 -0.4
eS 06 38.80
KNT 2.86 13 iPd 06 08.28 -0.2
OHR 2.90 341 iPn 06 11.60 2.5
iSn 06 51.50
LQ 07 12.40
VAY 2.97 8 iPn 06 09.80 -0.2
SRS 2.99 23 ePc 06 09.36 -0.8
SKO 3.63 353 ePn 06 20.20 0.9
i 06 27.70
LCI 3.73 303 P 06 19.50 -1.3
eSn 06 55.50
KGT 4.57 61 ePn 06 31.50 -1.1
TDS 4.63 288 P 06 35.00 1.4
DST 5.27 74 ePn 06 45.00 2.4
MGR 5.34 291 P 06 55.00 11.3X
SGO 5.66 295 P 06 47.50 -0.6
KHL 5.87 88 ePn 06 51.00 -0.1
MLR 7.68 21 eP 07 21.00 4.4X
HFS 22.42 349 eP 10 35.70 13.8X
0.5s 1.20nm
NB2 23.69 347 P 10 33.00 -1.3
0.8s 2.50nm 3.8mb
EKA 23.98 323 P 10 38.00 0.9
0.8s 2.80nm 3.9mb
S.D. = 1.4 on 24 of 28 obs.

• MAR 14, 1991 19h 25m 54.20± 0.67s
10.589 S ±12.0km 162.314 E ±10.8km
DEPTH = 33.0km (normal)
4.6mb (7 obs.)
SOLOMON ISLANDS (193)

HNR 2.60 296 iP 26 35.00 0.2
iS 27 05.00
SVO 2.85 300 iP 26 39.00 0.7
iS 27 06.00
VSG 2.89 297 iP 26 39.00 0.1
iS 27 10.00
PMG 14.98 273 eP 29 27.00 1.7
CTA 18.12 237 iPd 30 07.00 1.8
0.9s 23.53nm 4.3mb
RMQ 20.35 217 eP 30 34.50 3.8X
COO 22.13 204 eP 30 51.00 2.3
CMS 25.80 214 eP 31 26.00 1.9
WB2 28.49 248 iPd 31 46.80 -2.0
0.9s 10.90nm 4.6mb
WRA 28.50 248 iPd 31 46.80 -2.1
0.9s 10.90nm 4.6mb
STK 28.56 219 iPd 32 10.00 20.7X
0.6s 2.60nm
ASPA 30.03 241 iPd 32 00.00 -2.6
0.4s 9.70nm 5.0mb
WARB 37.08 240 iPd 33 02.80 -0.6
0.4s 4.00nm 4.6mb
FORR 37.59 232 eP 33 07.20 -0.4
0.4s 11.00nm 5.1mb
SVA 78.76 19 ePc 37 55.20 0.3
IL 79.47 7 eP 38 01.00 2.5
TTA 80.00 18 eP 38 01.60 0.0
IMA 83.00 17 ePc 38 17.40 0.1
1.0s 5.00nm 4.6mb
FBA 83.97 19 eP 38 21.10 -1.0
TNP 89.06 51 P 38 49.00 1.1
KEV 114.48 344 ePKP 44 28.00 -3.9X
NUR 121.22 337 ePKP 44 44.00 -1.0
HFS 125.32 341 ePKP 44 51.20 -1.7
0.4s 0.80nm
NB2 125.34 343 PKP 44 52.00 -1.0

0.8s 3.20nm
BCAO 143.60 263 iPKPc 45 26.20 -2.2
0.5s 5.00nm
ECRI 145.46 340 ePKP 45 31.00 0.2
ETOR 146.88 338 ePKP 45 35.00 1.7
GUD 147.76 341 iPKPd 45 38.00 3.3X
TOL 148.41 340 ePKP 45 39.50 3.9X
SOB1 149.67 130 (PKP) 45 43.00 4.7X
S.D. = 1.6 on 24 of 30 obs.

? MAR 14, 1991 19h 30m 57.53± 1.40s
3.725 S ±17.8km 139.913 E ±13.4km
DEPTH = 33.0km (normal)
4.7mb (2 obs.) 4.2Msz (1 obs.)
WEST IRIAN (201)

MNDI 4.44 123 eP 32 05.00 0.4
MTN 12.55 223 eP 33 56.50 -0.2
e 34 11.00
eS 36 22.00
QIS 16.73 181 eP 34 49.60 -1.6
i 34 54.80
WB2 17.01 198 eP 34 55.70 1.1
0.5s 22.30nm 4.5mb
eS 38 04.90
ASPA 20.66 196 eP 35 37.90 0.6
0.7s 43.30nm 4.9mb
Z 18s 0.93um 4.2Msz
iS 39 26.90
CNCB 145.71 127 PKP 50 36.00 0.0
ZOBO 145.90 126 PKP 50 36.00 -0.3
S.D. = 1.0 on 7 of 7 obs.

MAR 14, 1991 19h 46m 28.78± 1.02s
38.852 N ±10.6km 25.762 E ± 5.9km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

EZN 1.07 24 iPn 46 49.70 0.9
IZM 1.26 111 iPn 46 52.00 -0.2
PAIG 1.94 304 ePc 47 02.42 0.4
KGT 1.99 36 iPn 47 03.00 0.2
ALN 2.05 6 ePd 47 03.58 -0.1
EDC 2.21 47 ePn 47 06.00 0.0
BNT 2.24 47 iPn 47 05.00 -1.5
DST 2.35 70 ePn 47 09.00 0.9
KCT 2.44 54 ePn 47 16.00 6.6X
LIT 2.82 297 iPd 47 15.34 0.6
KNT 3.19 317 ePc 47 18.86 -1.0
S.D. = 0.9 on 10 of 11 obs.

? MAR 14, 1991 19h 54m 22.24± 0.89s
18.315 S ±21.2km 167.994 E ±36.7km
DEPTH = 33.0km (normal)
4.2mb (1 obs.)
VANUATU ISLANDS (186)

PVC 0.65 28 iPd 54 33.70 -1.2
iS 54 43.00
BKM 0.69 20 iPd 54 35.00 -0.5
iS 54 45.50
DZM 4.01 201 iPc 55 21.90 -1.1
iS 56 04.90
ASPA 32.22 255 iPc 00 49.20 -0.7
1.0s 3.30nm 4.2mb
ABH 144.81 338 ePKP 13 55.61 -1.8
DOU 145.61 341 PKP 13 58.40 -0.3
CDF 146.13 337 ePKP 13 59.90 0.2
0.8s 5.35nm
HAU 146.82 337 ePKP 14 01.80 1.0
FLN 148.22 345 ePKP 14 05.00 2.1
0.7s 7.70nm
LDF 148.29 345 ePKP 14 05.20 2.2
LOR 148.32 339 ePKP 14 05.90 2.7X
0.7s 4.40nm
LBF 148.53 339 ePKP 14 06.60 3.0X
0.9s 2.75nm
SSF 148.62 339 ePKP 14 06.80 3.2X
0.8s 6.05nm
GRR 148.66 346 ePKP 14 06.50 2.9X
0.7s 4.40nm
LPL 148.72 334 ePKP 14 07.50 3.3X
0.7s 2.20nm
LPG 148.73 334 ePKP 14 07.70 3.4X
LPF 149.04 346 ePKP 14 07.60 3.4X
0.9s 9.85nm
BGF 149.28 340 ePKP 14 08.30 3.6X

	0.8s	4.70nm				
TCF	149.73	340	ePKP	14	09.40	4.0X
	1.0s	7.00nm				
LSF	149.98	341	ePKP	14	09.70	4.0X
	0.6s	2.70nm				
MFF	150.14	343	ePKP	14	10.50	4.5X
RJF	150.82	340	ePKP	14	12.00	5.0X
CAF	150.98	339	ePKP	14	12.60	5.3X
LFF	151.40	341	ePKP	14	13.40	5.5X
	0.7s	4.40nm				
LPO	151.48	340	ePKP	14	13.70	5.7X
	0.7s	4.40nm				
	S.D. = 1.5	on	10 of	25 obs.		

? MAR 14, 1991 20h 04m 41.56± 1.43s
36.822 N ±21.6km 29.382 E ± 7.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ELL	0.43	100	iPg	04	50.50	0.2
			eSg	04	58.00	
YER	0.93	290	ePn	04	59.00	-0.4
BCK	1.16	56	ePn	05	03.00	-0.2
CIN	1.29	307	eP	05	06.00	0.5
KHL	1.50	4	ePn	05	03.00	-5.6X
	S.D. = 0.7	on	4 of	5 obs.		

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* MAR 14, 1991 20h 44m 10.94± 0.99s
21.724 S ±10.8km 68.576 W ±16.2km
DEPTH = 158.0 ± 15.1 km
4.9mb (1 obs.)
CHILE-BOLIVIA BORDER REGION (124)

ANT	2.60	220	iPc	44	54.20	0.1
			iS	45	24.30	
CCH	4.89	28	P	45	23.30	-0.9
CNCB	4.92	7	P	45	26.50	1.7
LPB	5.18	5	P	45	28.00	-0.2
ZOBO	5.44	5	P	45	33.00	1.3
ARE	5.91	332	eP	45	36.00	-1.8
			i	46	38.00	
			iS	46	44.50	
PPD	16.03	94	eP	47	49.70	0.7
BAO	20.41	76	ePd	48	35.40	-2.1
SOB1	29.37	69	eP	49	59.80	-1.6
			e	50	02.00	
LIC	68.15	74	Pc	54	57.00	0.7
TIC	68.34	73	Pc	54	58.20	0.7
KIC	68.47	74	Pc	54	59.10	0.8
	0.5s	10.50nm			4.9mb	
LKO	69.15	70	Pc	55	03.10	0.6
GBA	146.68	98	PKP	03	38.00	3.6X
	S.D. = 1.4	on	13 of	14 obs.		

& MAR 14, 1991 22h 37m 35.71s
59.551 N 152.559 W
DEPTH = 75.4km
SOUTHERN ALASKA (2)
<AEIC>.

XLV	0.44	102	iPc	37	47.97	-0.7
			eS	37	57.74	
AUE	0.46	245	iPd	37	48.32	-0.5
HOM	0.48	77	iPc	37	48.57	-0.4
AUH	0.49	248	ePc	37	48.88	-0.3
AUI	0.49	244	ePd	37	48.54	-0.6
			eS	37	58.00	
CNPM	0.67	92	iPc	37	50.19	-0.8
			eS	38	01.34	
NNL	0.81	52	ePc	37	52.60	0.2
CDD	0.84	222	iPd	37	52.02	-0.8
			eS	38	04.52	
PDB	0.86	287	iPc	37	52.02	-1.1
			eS	38	04.68	
BRLK	0.88	75	iPc	37	52.31	-1.0
			eS	38	04.83	
RED	0.88	353	iPd	37	52.53	-0.8
			eS	38	05.57	
RSO	0.92	354	iPd	37	53.28	-0.7
			eS	38	06.47	
RS2	0.92	354	iPd	37	53.30	-0.7
REF	0.94	356	iPd	37	53.55	-0.7
			eS	38	06.89	
SYI	0.95	175	iPd	37	53.60	-0.5
			eS	38	07.79	
RDN	0.97	354	iPd	37	53.88	-0.7
			eS	38	07.54	
MCNL	0.98	249	iPd	37	53.47	-1.1
			eS	38	07.19	
RDT	1.03	4	iPd	37	54.22	-1.0
			eS	38	08.76	
NCT	1.03	350	iPd	37	54.51	-0.7
			eS	38	08.72	
NKA	1.37	28	ePc	38	00.59	1.1
SLKM	1.52	50	eP	38	01.10	-0.4
CKL	1.65	4	iPd	38	02.83	-0.6
SPU	1.66	8	iPd	38	02.70	-0.7
BGL	1.72	3	ePd	38	03.73	-0.6
CRP	1.73	6	ePd	38	04.10	-0.5
NCG	1.87	6	iPd	38	05.80	-0.6
SUA	2.12	24	ePd	38	09.40	-0.4
SVW	2.18	317	eP	38	09.21	-1.4
PMS	2.26	40	iPd	38	10.83	-0.8
PWA	2.49	31	eP	38	13.81	-0.9
SKT	2.49	11	eP	38	12.48	-2.3
KNIM	2.56	70	eP	38	12.96	-2.8
PLRM	2.66	38	eP	38	15.22	-1.9
KNK	2.76	46	eP	38	16.68	-1.9
GHO	2.86	37	eP	38	18.21	-1.8
	35 obs. ossociated					

MAR 14, 1991 23h 18m 29.23± 0.36s
43.302 N ± 2.9km 19.890 E ± 3.7km
DEPTH = 5.0km (geophysicist)
YUGOSLAVIA (383)
ML 3.2 (TTG).

PLE	0.36	275	iPgd	18	36.23	-0.3
			iSg	18	41.33	
IVA	0.43	179	iPgc	18	37.80	-0.1
			iSg	18	43.72	
PVY	0.71	175	iPgc	18	42.75	-0.7
			iSg	18	53.47	
NKY	0.82	234	iPgd	18	44.47	-1.1
			iSg	18	56.07	
TTG	0.99	208	iPgd	18	47.40	-1.0
			iSg	19	02.27	
BRY	1.06	248	iPgd	18	48.40	-1.4
			iSg	19	04.40	
BDV	1.28	218	iPgc	18	53.18	-0.3
			iSg	19	12.83	
HCY	1.33	231	iPgc	18	53.27	-1.0
			iSg	19	13.30	
ULC	1.42	200	iPgc	18	56.02	0.3
			iSg	19	16.83	
BEO	1.57	15	iPn	18	58.00	0.2
			iSg	19	21.00	
SKO	1.75	139	iPn	19	01.10	0.6
			iSn	19	26.20	
			iSg	19	29.70	
			LQ	19	45.50	
OHR	2.29	163	iPn	19	09.60	1.3
			iSn	19	40.30	
			LQ	19	49.20	
HVAR	2.52	268	iPnd	19	13.70	2.2
			iSn	19	47.80	
VTS	2.54	105	iPc	19	12.00	0.1
			iSg	20	49.00	
BZS	2.62	28	ePc	19	12.00	-0.9
VAY	2.80	134	ePn	19	20.50	4.9X
BAI	3.13	227	P	19	20.00	-0.1
BRT	3.14	220	P	19	20.70	0.4
			eSn	19	54.50	
LCI	3.30	207	P	19	22.40	-0.2
			eSn	19	56.90	
UZD	3.42	345	e(P)	19	25.00	0.7
VBY	3.98	305	e(Pn)	19	52.00	19.7X
ORI	4.14	220	P	19	34.60	0.2
BUD	4.23	352	e(P)	19	35.00	-0.7
DUI	4.34	250	P	19	38.40	1.0
SGO	4.38	233	P	19	37.90	0.0
TDS	4.51	217	P	19	40.10	0.3
			eSn	20	26.00	
MGR	4.53	227	P	19	40.50	0.5
CEY	4.60	304	e(Pn)	19	42.00	0.9
PSZ	4.62	0	eP	19	40.00	-1.3
SDI	4.77	253	P	19	44.40	0.9
MLR	4.86	61	eP	19	58.50	13.6X
TRI	5.00	301	e(Pn)	19	59.70	13.0X
			e(Sn)	21	13.30	
ARV	5.07	275	P	19	47.50	-0.2
VOY	5.07	305	e(Pn)	19	48.90	1.1
MNS	5.38	263	P	19	51.20	-1.0
VRI	5.52	60	ePd	20	00.00	6.0X
CRE	5.79	276	P	19	58.20	0.3
KBA	5.97	311	ePn	20	00.00	-0.6
			eSn	21	06.00	
	S.D. = 0.9	on	33 of	38 obs.		

MAR 15, 1991 00h 01m 34.80± 0.39s
35.399 N ± 6.0km 140.227 E ± 5.1km
DEPTH = 65.7km (3 depth phases)
5.0mb (22 obs.)
NEAR EAST COAST OF HONSHU, JAPAN(228)

KAKJ	0.81	357	iP+	01	50.50	-0.3
			S	02	00.90	
CHJJ	1.19	303	iPd	01	56.00	0.1
			S	02	11.40	
IIDJ	1.89	273	iPd	02	06.80	1.3
			S	02	31.60	
MAT	1.99	305	(P)	02	07.00	0.1
			(S)	02	30.00	
MTMJ	2.29	302	iPd	02	11.30	0.2
YAMJ	2.77	357	P	02	19.40	1.6
			eS	02	54.10	
TSRJ	3.47	273	P	02	28.40	0.9
OFUJ	3.85	17	iP+	02	32.10	-0.7
			S	03	14.50	
WKYJ	3.99	254	P	02	35.80	0.9
TKSJ	5.28	256	P	02	53.70	0.7
YONJ	5.54	270	eP	02	56.50	-0.1
SHNJ	7.61	263	P	03	25.90	0.6
KUMJ	8.31	253	P	03	36.90	1.9
KAGJ	8.87	244	P	03	44.50	1.8
MDJ	12.29	322	eP	04	28.00	-0.8
CN2	14.13	311	eP	04	55.40	2.3
SNY	14.50	301	Pd	05	00.00	2.1
	1.2s	50.00nm			4.7mb	
BJI	19.56	291	eP	05	57.50	-2.4
WHN	22.22	265	eP	06	27.50	0.6
TIY	22.42	284	eP	06	25.50	-3.5X
HHC	23.14	292	eP	06	34.50	-1.5
XAN	25.72	276	P	06	59.40	-1.2
GYA	30.02	262	P	07	38.00	-1.7
GTA	32.16	289	P	07	57.00	-1.4
	0.6s	10.00nm			4.8mb	
ILT	39.93	23	eP	09	03.00	-0.6
CHTO	39.97	257	P	09	03.00	-1.6
WMQ	40.74	298	P	09	10.50	-0.3
GUN	46.37	277	P	09	56.00	-0.8
	0.9s	34.00nm			5.3mb	
PKI	46.89	276	P	09	59.80	-1.0
	0.8s	17.00nm			5.0mb	
KKN	46.91	277	P	10	00.20	-0.6
	0.8s	27.00nm			5.2mb	
DMN	47.12	277	P	10	00.20	-2.4
	1.0s	20.00nm			5.0mb	
GKN	47.35	277	P	10	03.20	-1.0
	0.8s	50.00nm			5.5mb	
FBA	51.00	31	P	10	32.00	0.5
WB2	55.32	187	iPc	11	03.90	-0.1
	0.7s	11.30nm			5.0mb	
WRA	55.32	187	iPc	11	03.90	-0.1
	0.7s	11.30nm			5.0mb	
INK	56.28	26	eP	11	10.00	-0.4
HYB	57.20	269	ePc	11	16.50	-1.2
	1.0s	25.00nm			5.3mb	
GBA	60.13	266	P	11	37.00	-1.0
KOD	61.97	262	eP	11	50.00	-0.8
WARB	62.58	194	eP	11	55.00	0.8
	0.6s	11.00nm			5.1mb	
YKA	65.70	29	eP	12	13.60	-0.5
	1.0s	0.70nm			3.6mb X	
SOD	66.10	337	iP	12	16.00	-0.6
KAF	69.32	333	iP	12	35.70	-1.1
	0.5s	3.00nm			4.5mb	
NUR	70.94	332	eP	12	45.00	-1.6
	0.7s	13.30nm			5.0mb	
HFS	75.18	335	eP	13	10.10	-1.4
	1.5s	45.00nm			5.2mb	
Z	15s	0.04um			3.8MszX	
			LR	44	33.00	
NB2	75.32	337	P	13	11.70	-0.6
	0.9s	6.90nm			4.6mb	
FFC	75.60	32	eP	13	15.00	1.0
	0.7s	6.00nm			4.6mb	
LRM	75.99	43	eP	13	18.20	1.5
FRB	78.58	13	eP	13	31.00	0.7
CLL	82.03	330	iPd	13	49.00	0.2
			e	14	06.00	61km

15d 00h

PRU	82.37	328	eP	13 51.00	0.4	
			e	14 09.00	65km	
KHC	83.43	328	P	13 57.00	0.8	
GRF	84.00	330	ePc	14 00.00	1.0	
	1.1s		10.00nm		4.8mb	
			e	14 19.60	71km	
PRNI	84.01	303	eP	14 00.00	0.6	
RMN	84.17	303	eP	14 00.00	-0.4	
MBH	84.44	303	eP	14 02.00	0.3	
VAY	84.62	318	eP	14 03.00	0.7	
SKO	84.79	319	iP	14 04.00	0.9	
OHR	85.73	319	eP	14 07.00	-0.9	
ALQ	86.38	49	eP	14 31.00	19.6X	
CDF	86.61	331	eP	14 12.20	0.1	
AVF	89.47	332	eP	14 25.80	0.1	
GRR	89.65	335	eP	14 26.70	0.1	
LPF	90.02	335	eP	14 28.60	0.3	
	0.6s		3.60nm		4.8mb	
LSF	90.61	333	eP	14 31.20	0.1	
	0.8s		4.05nm		4.8mb	
MFF	90.93	334	eP	14 33.00	0.5	
	0.8s		5.35nm		5.0mb	
RJF	91.41	332	eP	14 35.40	0.6	
CAF	91.52	332	eP	14 36.20	0.9	
	0.8s		4.05nm		4.9mb	
LFF	92.02	333	eP	14 38.30	0.8	
	0.7s		4.40nm		5.0mb	
ZOBO	148.33	60	PKP	21 18.00	5.3X	
LPB	148.53	61	ePKP	21 19.00	6.2X	
CNCB	148.80	61	PKP	21 20.00	6.6X	
SIV	152.87	50	ePKP	21 20.00	1.2	
	S.D. = 1.1		on 68 of 73 obs.			

MAR 15, 1991 01h 31m 49.13± 0.47s
45.874 N ± 3.5km 2.991 E ± 5.1km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 1.8 (LDG).

PYM	0.12	174	Pg	31 52.72	0.5	
			Sg	31 55.51		
AGO	0.20	29	Pg	31 54.15	0.5	
			Sg	31 57.54		
MAF	0.46	320	Pg	31 58.60	0.2	
			Sg	32 05.00		
LBL	0.67	164	Pg	32 01.86	-0.5	
			Sg	32 10.27		
TCF	0.68	308	Pg	32 02.60	-0.1	
			Sg	32 11.80		
BGF	0.69	352	Pg	32 02.60	-0.2	
			Sg	32 11.80		
AVF	0.95	15	Pg	32 07.00	-0.2	
			Sg	32 19.40		
SMF	0.97	37	Pg	32 07.40	-0.2	
			Sg	32 20.20		
LSF	1.08	291	Pg	32 09.40	-0.1	
			Sg	32 23.60		
CAF	1.15	215	Pg	32 10.80	0.1	
			Sg	32 26.00		
	S.D. = 0.4		on 10 of 10 obs.			

MAR 15, 1991 01h 47m 57.66± 0.57s
24.009 S ± 5.4km 66.711 W ± 6.7km
DEPTH = 195.4 ± 6.5 km
4.4mb (5 obs.)
SALTA PROVINCE, ARGENTINA (129)

SLA	1.32	123	iPd	48 17.50	-12.4X	
ANT	3.40	274	iPc	48 51.80	-0.6	
			iS	49 29.30		
CNCB	7.26	350	iPc	49 44.70	2.0	
			S	51 04.00		
TCA	7.54	166	iPd	49 45.30	-0.6	
			(S)	51 07.00		
LPB	7.55	350	Pc	49 46.00	-0.5	
			S	51 11.00		
ZOBO	7.81	350	iPc	49 50.70	0.6	
			S	51 12.00		
ARE	8.75	328	eP	50 00.00	-1.8	
			i	51 32.80		
			iS	51 34.50		
SIV	9.58	35	iPc	50 12.60	0.2	
PEL	9.75	200	eP	50 15.00	0.4	
PCH	10.14	198	eP	50 20.50	0.7	
VAO	18.14	91	iPc	51 58.00	0.1	
			e	52 01.40		
			e	52 19.40		
BAO	19.47	68	ePd	52 11.80	0.0	
BMA	20.75	91	eP	52 24.70	0.2	
			e	52 25.70		
PDCR	28.52	71	eP	53 30.80	-6.3X	
SOB1	28.71	64	eP	53 38.20	-0.6	
RSCP	61.91	343	P	57 56.90	-1.7	
FVM	65.57	340	P	58 20.50	-1.8	
KIC	67.50	72	(P)	58 35.00	0.0	
ALQ	69.70	326	eP	58 48.70	0.4	
	0.9s		7.56nm		4.4mb	
ANMO	69.70	326	P	58 48.80	0.5	
	1.0s		8.75nm		4.5mb	
PV09	73.81	327	P	59 13.00	0.4	
PEC	74.94	318	P	59 19.00	0.1	
RSSD	75.93	333	P	59 24.80	0.3	
	0.7s		5.19nm		4.4mb	
BW06	77.30	329	P	59 32.00	-0.1	
TNP	77.85	321	P	59 36.50	1.3	
	0.6s		2.59nm		4.1mb	
LRM	80.96	330	eP	59 53.30	1.6	
PNT	86.85	328	eP	00 21.00	0.1	
YKA	94.22	340	eP	00 55.00	0.1	
	0.5s		2.70nm		4.7mb	
GBA	144.61	100	PKP	07 12.00	-1.1	
HYB	146.92	95	ePKP	07 20.50	3.6X	
	S.D. = 1.0		on 27 of 30 obs.			

& MAR 15, 1991 02h 06m 21.10s
33.110 N 117.710 W
DEPTH = 6.0km (geophysicist)
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 3.0 (PAS).

CPE	0.56	114	eP	06 31.30	-1.1	
CIS	0.65	297	eP	06 32.80	-1.4	
SCI	0.71	260	eP	06 34.30	-1.1	
PLM	0.75	71	iPc	06 34.80	-1.4	
PEC	0.90	30	eP	06 37.40	-1.4	
BAR	0.97	116	eP	06 38.30	-1.7	
	6 obs. associated					

• MAR 15, 1991 02h 23m 48.76± 0.70s
23.320 S ±19.0km 174.980 W ± 9.6km
DEPTH = 33.0km (normal)
4.8mb (4 obs.) 4.9Msz (3 obs.)
TONGA ISLANDS REGION (174)

SVA	8.03	309	ePc	25 46.40	0.3	
VUN	8.10	310	eP	25 46.40	-0.6	
SGE	8.76	309	eP	25 57.10	0.8	
DZM	17.19	271	iPc	27 49.00	0.9	
CGP	66.88	291	eP	34 37.50	-2.6	
	1.0s		3.50nm		4.4mb	
TNP	81.65	42	P	36 04.00	-1.3	
MDJ	84.43	324	Pd	36 19.50	0.4	
CN2	86.24	321	eP	36 27.00	-1.2	
	Z 20s		0.70um		5.1Msz	
			eS	47 14.00		
WHN	86.36	305	eP	36 29.00	0.0	
ALQ	87.01	50	eP	36 33.80	1.4	
ANMO	87.02	50	P	36 33.00	0.6	
TIA	87.23	311	eP	36 33.20	0.0	
BJI	89.86	314	eP	36 43.50	-2.1	
	1.0s		14.00nm		5.2mb	
			eSKS	47 13.00		
FBA	90.41	11	P	36 48.00	0.4	
GYA	90.46	299	P	36 49.00	0.1	
ILT	90.99	359	eP	36 50.80	0.7	
			eS	47 30.00		
TIY	91.24	311	Pd	36 52.40	0.3	
	Z 20s		0.40um		4.9Msz	
XAN	92.06	306	P	36 55.90	0.0	
KMI	93.11	296	Pd	37 02.00	0.8	
BDT	93.15	287	eP	37 03.00	1.9	
CHTO	93.82	289	P	37 04.10	-0.1	
LZH	96.70	306	eP	37 17.00	-0.3	
	2.0s		21.00nm		5.3mb	
	Z 20s		0.24um		4.7Msz	
			pP	37 23.00	19kmX	
			sP	37 30.00		
YKA	97.91	24	eP	37 22.20	0.3	
	0.6s		0.20nm		3.8mb	
KRA	150.87	340	ePKP	43 38.60	5.3X	
			e	43 50.60		
KSP	151.16	345	ePKP	43 40.00	6.2X	
HRI	151.28	297	ePKP	43 40.00	5.4X	
WTS	151.34	358	ePKP	43 55.50	21.6X	
CLL	151.38	350	iPKPd	43 40.20	6.1X	
	1.1s		14.00nm			
			i	43 54.70		
VRI	151.44	327	ePKP	43 28.50	-5.9X	
BRG	151.63	348	iPKP	43 41.20	6.7X	
	1.2s		17.00nm			
			i	43 56.20		
JVI	151.86	294	iPKPc	43 41.90	6.4X	
MLR	152.10	328	ePKP	43 35.00	-0.5	
MOX	152.24	351	ePKP	43 43.00	7.6X	
PRU	152.35	347	ePKP	43 42.50	7.0X	
RMN	152.70	292	ePKP	43 43.50	6.7X	
KHC	153.37	347	PKP	43 45.50	8.5X	
	S.D. = 1.1		on 24 of 36 obs.			

? MAR 15, 1991 02h 51m 21.32± 1.35s
18.605 S ±17.4km 70.300 W ±11.6km
DEPTH = 90.0km (geophysicist)
4.4mb (2 obs.)
NEAR COAST OF NORTHERN CHILE (122)

ARE	2.42	332	iPc	51 59.50	-0.5	
			iS	52 22.50		
CNCB	2.84	51	iPc	52 08.00	1.9	
LPB	2.94	46	iPc	52 07.00	-0.3	
			S	52 36.00		
ZOBO	3.12	42	iPc	52 09.40	-0.4	
CCH	4.14	74	eP	52 18.00	-5.8X	
SIV	9.19	75	P	53 31.60	-1.5	
LIC	68.88	75	P	02 19.00	0.2	
KIC	69.20	75	P	02 21.10	0.3	
LKO	69.67	72	P	02 23.72	0.0	
	0.6s		8.50nm		4.8mb	
YKA	88.04	341	eP	04 02.50	0.2	
	0.5s		0.60nm		3.9mb	
	S.D. = 1.1		on 9 of 10 obs.			

? MAR 15, 1991 03h 08m 19.03± 2.54s
45.933 N ±18.7km 15.019 E ±16.5km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MD 2.4 (LJU). ML 1.9 (KBA).

LJU	0.36	288	iPgc	08 26.60	0.2	
			iSg	08 31.50		
CEY	0.46	245	ePgc	08 28.40	0.0	
			eSg	08 36.00		
VBY	0.46	159	iPgc	08 28.40	0.0	
			iSg	08 35.50		
VOY	0.79	278	ePg	08 34.20	-0.3	
			eSg	08 46.90		
KBA	1.63	315	ePg	08 51.00	3.0X	
			iSg	09 10.80		
	S.D. = 0.4		on 4 of 5 obs.			

• MAR 15, 1991 03h 10m 34.24± 0.54s
2.070 N ± 9.0km 129.643 E ±11.6km
DEPTH = 28.2km (2 depth phases)
5.0mb (8 obs.)
HALMAHERA (267)

MNI	4.84	263	ePc	11 47.00	-0.1	
CGP	8.03	322	eP	12 33.00	1.0	
PLP	10.15	333	eP	13 01.80	0.5	
PMG	20.84	123	eP	15 14.00	-2.4	
WRA	22.36	168	iPc	15 31.50	-0.2	
	0.6s		30.20nm		4.9mb	
WB2	22.36	168	iPc	15 31.50	-0.2	
	0.6s		30.20nm		4.9mb	
QIS	24.52	157	iPc	15 54.20	1.5	
	0.8s		55.00nm		5.2mb	
			iPcP	16 03.00		
CHTO	34.36	301	P	17 21.00	-0.2	
KMI	34.61	314	Pd	17 25.00	1.5	
MAT	35.20	12	(P)	17 27.00	-1.1	
	0.8s		6.72nm		4.6mb	
BRS	36.80	144	iP	17 43.00	1.3	
XAN	37.23	331	eP	17 45.70	0.4	
BJI	39.72	344	eP	18 06.00	0.0	
BFD	40.84	164	eP	18 16.70	1.5	
			e	18 26.00	31km	
LZH	41.42	328	eP	18 21.00	0.8	
	2.0s		36.00nm		4.8mb	
			pP	18 28.50	25km	
			sP	18 32.00		
GUN	49.05	306	P	19 26.40	4.9X	
	0.7s		26.00nm		5.4mb	

PKI	49.30	305	P	19	28.00	4.6X
KKN	49.49	305	P	19	29.60	4.9X
	1.0s	24.00nm			5.2mb	
DMN	49.56	305	P	19	30.00	4.7X
GKN	50.09	305	P	19	33.80	4.5X
	1.0s	14.00nm			4.9mb	
HYB	52.41	290	iPc	19	46.00	-0.9
KOD	52.44	281	eP	19	46.00	-1.4
GBA	52.85	285	P	19	48.00	-2.1
WMO	55.75	324	eP	20	14.80	3.8X
	S.D. = 1.3	on	18 of	24	obs.	

? MAR 15, 1991 03h 16m 59.15± 1.12s
61.112 N ±20.5km 166.869 E ±18.3km
DEPTH = 33.0km (normal)
4.3mb (5 obs.)
EASTERN SIBERIA (671)

ILT	9.20	36	eP	19	11.20	-1.3
	0.8s	8.00nm			5.0mb	
		e		19	58.80	
		eS		20	41.50	
		e		21	51.00	
FBA	20.57	60	P	21	38.20	1.0
INK	25.47	48	eP	22	26.00	0.8
YKA	35.01	52	eP	23	49.20	-0.7
	0.7s	0.80nm			3.8mb	
NB2	56.75	346	P	26	42.50	0.9
	0.7s	2.40nm			4.3mb	
HFS	57.32	344	eP	26	45.30	-0.2
	0.5s	1.00nm			4.1mb	
WRA	84.91	211	P	29	31.00	-0.6
	0.6s	1.50nm			4.4mb	
	S.D. = 1.1	on	7 of	7	obs.	

MAR 15, 1991 03h 24m 09.00± 0.67s
34.343 N ± 2.9km 26.389 E ± 2.1km
DEPTH = 7.1 ± 4.1 km
5.2mb (81 obs.) 4.4Msz (9 obs.)
CRETE (370)
ML 5.5 (CSS).

NPS	1.12	325	ePg	24	32.20	2.0
YER	3.18	28	iPn	25	02.00	1.5
CIN	3.53	22	eP	25	08.00	2.7
VLI	3.68	311	ePn	25	09.00	1.5
ELL	3.74	49	iP	25	11.00	2.5
IZM	4.11	10	iP	25	15.30	1.7
ATH	4.22	330	ePn	25	16.00	0.9
BCK	4.62	46	iP	25	23.30	2.5
KHL	4.71	32	iP	25	22.40	0.2
PRK	4.89	359	ePn	25	25.80	1.1
PPCY	4.94	82	eP	25	25.00	-0.4
EZN	5.47	359	iP	25	33.30	0.4
DST	5.55	18	iP	25	34.80	0.7
AGG	5.70	326	eP	25	37.50	1.4
			eS	26	30.40	
CSS	5.76	82	eP	25	36.00	-0.9
			eSn	26	41.70	
VLS	6.05	311	ePn	25	42.50	1.5
HLW	6.14	135	eP	25	41.90	-0.3
			eS	26	49.00	
KGT	6.14	7	iP	25	43.20	0.9
FAM	6.31	82	eP	25	46.00	1.3
KOT	6.38	132	ePn	25	44.00	-1.6
			eSn	26	47.50	
LIT	6.53	333	iPc	25	48.80	0.9
			eS	26	51.10	
LV	6.65	20	iP	25	49.20	-0.4
PA	6.71	27	eP	25	50.70	0.4
NDO	6.82	355	ePn	25	52.60	0.7
THE	6.84	338	iPd	25	54.50	2.3
GBZT	6.88	20	eP	25	53.00	0.3
EYL	6.90	25	eP	25	54.70	1.6
SOH	6.90	340	iPc	25	54.70	1.6
HRT	6.97	21	eP	25	53.70	-0.3
CTT	6.98	13	eP	25	54.20	0.0
KZN	7.00	330	ePn	25	56.00	1.6
ITU	7.06	16	eP	26	00.00	4.7X
SRS	7.12	343	iPc	25	57.50	1.5
KDZ	7.34	354	iPd	26	00.00	0.9
KNT	7.35	339	iPc	26	00.80	1.5
ADI	7.47	97	eP	25	59.00	-2.0
BBTK	7.48	41	iPd	26	02.00	0.7
KEK	7.52	317	ePn	26	00.00	-1.6
MMB	7.53	345	iPc	26	03.00	1.1
			iPP	31	53.00	
ZNT	7.54	104	eP	25	59.80	-2.1
			eS	27	21.10	
DMK	7.54	8	iP	26	01.80	-0.2
ATZ	7.57	99	eP	26	00.60	-1.8
			eS	27	22.00	
VAY	7.59	338	iP	26	04.00	1.3
	1.3s	203.00nm			6.2mb X	
			i	26	08.40	
8HL	7.70	91	P	26	01.00	-3.2X
			S	29	25.00	
DIM	7.72	355	iPd	26	06.00	1.5
KKB	7.95	342	iPc	26	02.00	-5.7X
SHMJ	7.99	99	Pd	26	06.57	-1.8
OHR	8.08	328	iPn	26	08.20	-1.3
JMB	8.11	1	iP	26	10.00	0.0
MKT	8.13	112	eP	26	08.30	-1.9
SALJ	8.13	104	Pd	26	08.75	-1.6
BURJ	8.16	102	Pd	26	08.93	-1.8
KFNJ	8.18	105	Pd	26	09.35	-1.5
MASJ	8.26	106	Pd	26	10.48	-1.6
LISJ	8.26	110	Pc	26	10.64	-1.3
MKRJ	8.26	107	Pc	26	10.71	-1.4
JARJ	8.27	102	Pc	26	10.83	-1.5
PGB	8.38	349	iP	26	15.00	1.3
JRSJ	8.52	116	Pc	26	14.91	-0.8
SKO	8.55	334	iP	26	18.10	2.0
	Z 11s	4.73um				
			i	26	24.80	
			i	26	30.20	
			i	26	36.20	
			i	26	43.40	
			i	27	56.00	
			i	28	12.50	
			i	28	31.00	
VTS	8.60	344	iPd	26	20.00	3.0X
QTRJ	8.65	108	P	26	15.67	-1.9
SHWJ	8.66	115	Pc	26	15.95	-1.8
AOBJ	8.67	120	Pd	26	17.54	-0.2
MDSJ	8.72	105	Pd	26	16.49	-2.0
NAOJ	8.86	117	Pc	26	19.18	-1.1
PVL	8.90	355	iPc	26	20.00	-0.9
HOL	8.94	122	ePc	26	21.33	-0.1
			iS	27	57.33	
LCI	8.99	314	P	26	18.20	-3.9X
HSHJ	9.13	118	Pd	26	21.72	-2.5
SOI	9.14	297	Pd	26	24.10	-0.1
GRI	9.17	302	P	26	24.42	-0.3
GHZJ	9.19	111	Pc	26	23.42	-1.7
GAZ	9.24	69	ePn	26	23.50	-2.1
HITJ	9.24	117	Pd	26	24.22	-1.5
BADA	9.37	126	eP	26	25.33	-2.0
			eS	28	10.00	
PSN	9.43	8	eP	26	25.00	-3.2X
ULC	9.46	326	ePn	26	28.20	-0.4
			eSn	28	06.00	
ATN	9.61	296	P	26	30.30	-0.4
			eSn	28	09.30	
TDS	9.63	306	P	26	31.20	0.2
OTFJ	9.64	102	Pd	26	29.02	-2.2
PVY	9.65	331	ePn	26	34.00	2.6
			eSn	28	16.00	
PZI	9.71	289	P	26	31.05	-1.1
MEU	9.71	290	P	26	32.20	-0.1
ORI	9.77	309	P	26	32.40	-0.5
BRT	9.78	315	P	26	30.10	-2.9
TTG	9.82	327	ePn	26	33.00	-0.5
			eSn	28	16.00	
AYN	9.84	121	ePd	26	34.00	0.1
			eS	28	18.00	
BDV	9.90	325	ePn	26	33.30	-1.4
			eSn	28	15.00	
IVA	9.91	331	ePn	26	37.00	2.1
			eSn	28	22.20	
BUC1	9.99	359	ePc	26	40.00	4.0X
BUC	10.06	359	eP	26	40.50	3.6X
MNO	10.11	294	P	26	38.00	0.2
BAI	10.13	315	P	26	33.80	-4.0X
KVT	10.18	46	ePn	26	39.00	0.4
HCY	10.18	325	ePn	26	36.50	-2.1
			eSn	28	21.00	
NKY	10.24	328	ePn	26	38.00	-1.5
			eSn	28	25.00	
MGR	10.39	307	P	26	39.20	-2.2
DRA	10.45	352	eP	26	42.00	-0.3
BRY	10.51	327	ePn	26	41.60	-1.7
			eSn	28	33.50	
GIB	10.63	294	P	26	44.60	-0.3
FAI	10.73	289	P	26	47.50	1.4
SGO	10.77	308	P	26	44.70	-1.9
ISR	10.78	1	eP	26	53.00	6.2X
CFR	10.91	7	ePd	26	48.00	-0.5
CMP	10.96	355	ePc	26	53.00	3.7X
MLR	11.14	358	eP	26	52.00	0.2
TNR	11.41	352	ePc	26	57.00	1.6
CVO	11.47	359	eP	26	59.00	2.8X
VRI	11.52	1	ePc	26	55.00	-1.8
HVAR	11.74	322	ePn	26	55.50	-4.3X
			iSn	29	01.80	
ERC	11.74	292	P	27	00.50	0.5
DEV	11.83	348	ePd	27	05.00	4.0X
BZS	11.84	343	eP	27	01.00	-0.1
DUI	11.91	311	P	27	00.30	-1.9
WAJH	11.98	130	eP	27	03.33	0.3
SDI	12.33	310	P	27	07.40	-0.5
AZI	12.72	311	P	27	13.30	0.3
IAS	12.87	4	eP	27	20.00	5.1X
ALP	13.08	314	eP	27	15.12	-2.9
MNS	13.41	311	P	27	23.90	1.7
CIO	13.58	314	eP	27	21.10	-3.4X
UZD	13.59	337	eP	27	26.50	2.0
ASS	13.80	313	P	27	27.70	0.3
ARV	13.88	315	P	27	28.20	-0.2
VBY	14.03	326	ePc	27	31.60	1.3
BUD	14.25	339	e(P)	27	33.00	-0.1
RIY	14.32	324	eP	27	31.60	-2.5
MAO	14.40	309	P	27	36.00	0.8
PSZ	14.41	342	iP	27	35.20	-0.2
CRE	14.54	314	P	27	39.30	2.1
CEY	14.59	325	eP	27	37.50	-0.2
			e(S)	30	15.50	
SRO	14.76	338	iP	27	37.40	-2.4
LJU	14.77	326	eP	27	40.00	0.1
			e(S)	30	30.00	
PGD	14.82	314	P	27	42.30	1.4
TRI	14.89	323	ePn	27	38.80	-2.7
			i	27	47.00	
			iSn	30	14.00	
			e	31	34.00	
			iLQ	32	40.00	
			i	34	06.00	
FIR	15.04	313	eP	27	47.00	3.4X
VOY	15.06	325	eP	27	42.90	-1.0
			e(S)	30	24.00	
ZST	15.48	336	iP	27	47.90	-1.4
SPC	15.52	345	eP	27	51.10	1.2
BDI	15.60	313	P	27	54.00	3.1X
MME	15.61	314	P	27	52.10	0.9
VVI	15.76	322	P	27	52.80	-0.1
VKA	15.81	335	eP	27	52.00	-1.6
	1.9s	142.00nm			4.8mb	
			id	27	52.90	
			i	27	56.60	
			e	30	28.00	
PGF	15.88	306	eP	27	53.60	-1.0
	1.0s	52.00nm			4.7mb	
FVI	16.00	324	P	27	55.20	-0.7
KBA	16.08	326	iPc	27	56.80	-0.4
	0.6s	59.00nm			4.9mb	
			i	28	01.20	
			i	28	14.80	
			i	29	09.40	
CTI	16.20	321	P	27	57.00	-1.7
KRA	16.40	345	ePd	28	00.60	-0.5
	0.9s	64.00nm			4.8mb	
			e	28	10.40	
			e	28	15.10	
KMR	16.49	330	eP	28	01.00	-1.2
			i	28	05.40	
			i	28	28.30	
			e(S)	31	11.00	
TAB	16.51	71	eP	28	08.00	5.2X
SAL	16.53	318	P	28	06.50	3.8X
BOB	16.67	314	P	28	06.20	1.6
BHG	16.77	327	eP	28	04.90	-0.9
WTTA	17.03	324	iPc	28	09.10	-0.1
			i	28	13.20	
MDI	17.09	317	P	28	12.00	2.2
PCP	17.10	312	P	28	10.30	0.3
WATA	17.11	324	iPc	28	09.30	-0.9
	0.7s	76.60nm			4.9mb	
			i	28	14.40	
			i	28	24.20	
FIN	17.15	310	P	28	11.94	1.3
CKI	17.21	311	P	28	11.90	0.6

15d 03h

IMI 17.21 309 P 28 11.53 0.1
SOTA 17.21 323 iPc 28 10.50 -1.0
0.5s 55.90nm 4.9mb
i 28 14.40
MOTA 17.35 323 iPc 28 10.50 -2.7
0.6s 35.00nm 4.6mb
i 28 13.80
ROB 17.40 310 P 28 14.09 0.3
SBF 17.48 309 eP 28 13.70 -1.1
1.0s 142.00nm 5.1mb
KHC 17.56 331 iPd 28 15.00 -0.7
1.0s 21.00nm 4.2mb
Z 10s 2.00um
N 10s 1.30um
E 10s 2.00um
ENR 17.66 310 P 28 17.48 0.5
VAI 17.68 316 P 28 15.90 -1.2
STV 17.73 310 P 28 17.78 -0.1
FUR 17.84 325 eP 28 18.50 -0.6
0.8s 100.00nm 5.0mb
WET 17.86 330 eP 28 18.40 -1.0
FRF 17.87 307 eP 28 18.30 -1.2
1.0s 58.00nm 4.7mb
LMR 17.87 306 eP 28 18.10 -1.4
1.0s 42.00nm 4.5mb
PRU 17.89 334 Pc 28 18.00 -1.8
0.9s 51.70nm 4.7mb
Z 14s 2.00um
N 10s 1.40um
E 13s 1.80um
e 28 33.70
e 30 30.50
S 31 43.50
DOI 17.90 310 P 28 19.90 -0.1
PZZ 17.99 310 P 28 19.53 -1.6
ORO 18.01 314 P 28 20.40 -1.0
ORX 18.01 314 P 28 19.94 -1.5
LRG 18.01 306 eP 28 20.30 -1.0
1.2s 77.35nm 4.7mb
Z 20s 1.10um 6.1MszX
BHB 18.05 311 P 28 19.32 -2.4
KSP 18.06 339 eP 28 20.50 -1.3
i 28 21.30
SURF 18.16 310 P 28 23.71 0.3
FOUF 18.20 310 ePc 28 23.84 0.2
RSP 18.20 312 P 28 25.89 2.1
RRL 18.38 311 P 28 25.89 -0.3
LSD 18.42 313 P 28 27.53 0.9
BNI 18.51 311 P 28 31.90 4.2X
LPG 18.68 312 eP 28 28.30 -1.6
0.8s 52.45nm 4.8mb
LPL 18.70 312 eP 28 28.50 -1.6
0.8s 43.00nm 4.7mb
BRG 18.84 335 iP 28 29.40 -2.1
1.0s 70.00nm 4.8mb
i 28 39.40
GRF 18.97 328 ePc 28 31.70 -1.4
Z 15s 2.00um
HOF 19.17 331 eP 28 34.00 -1.5
0.9s 33.00nm 4.6mb
GRN 19.18 311 P 28 34.44 -1.4
STU 19.26 324 iPd 28 36.40 -0.2
0.9s 184.87nm 5.3mb
FEL 19.29 320 eP 28 34.33 -2.8
BBS 19.31 318 P 28 35.75 -1.6
MOX 19.54 331 iP 28 38.00 -1.9
1.8s 208.00nm 5.1mb
eS 32 15.00
CLL 19.54 334 iP 28 37.60 -2.3
1.1s 40.00nm 4.6mb
i 28 50.70
LOMF 19.62 317 P 28 39.44 -1.6
MOF 19.74 319 P 28 40.54 -1.8
STR 19.86 321 P 28 42.77 -0.5
BSF 19.92 318 P 28 42.39 -1.7
ECH 19.95 320 P 28 42.84 -1.5
WLS 19.96 320 P 28 43.19 -1.4
CDF 20.00 320 P 28 43.70 -1.3
GWF 20.18 322 P 28 45.99 -0.8
HAU 20.26 318 eP 28 46.00 -1.7
0.6s 56.35nm 5.1mb
Z 21s 1.25um 4.2Msz
BRN 20.39 336 eP 28 47.00 -1.9
id 28 50.00
BRL 20.41 337 eP 28 47.50 -1.5
id 28 50.00
VITF 20.58 318 P 28 50.25 -0.7

TNS 20.60 326 ePc 28 50.00 -1.2
LBL 20.77 308 P 28 52.70 -0.2
PLDF 20.84 311 P 28 52.32 -1.4
SMF 21.01 313 eP 28 53.00 -2.4
0.6s 32.45nm 4.9mb
LBF 21.09 313 eP 28 54.20 -2.0
PYM 21.14 310 P 28 56.08 -0.7
AGO 21.19 310 P 28 56.19 -1.0
LOR 21.30 314 eP 28 56.60 -1.7
0.7s 34.45nm 4.8mb
Z 22s 1.13um 4.2Msz
WLF 21.36 322 iPc 28 58.61 -0.2
AVF 21.38 312 eP 28 57.40 -1.7
0.9s 40.15nm 4.8mb
SSF 21.41 313 eP 28 57.90 -1.5
CAF 21.43 307 eP 28 58.60 -1.1
0.8s 22.85nm 4.6mb
EBR 21.47 295 eP 29 04.00 3.9X
EROO 21.54 295 iPd 29 01.30 0.5
BGF 21.58 311 eP 29 00.00 -1.2
MAF 21.61 310 eP 29 00.30 -1.2
1.2s 87.75nm 5.0mb
ABHA 21.68 134 ePc 29 06.00 3.4X
BNS 21.70 326 iPc 29 02.10 -0.2
1.2s 283.00nm 5.6mb
KMTA 21.81 133 ePc 29 08.67 4.7X
TCF 21.87 310 eP 29 03.10 -1.0
0.9s 36.05nm 4.8mb
ACU 21.93 289 iPd 29 06.10 1.3
RJF 21.93 307 eP 29 03.90 -0.8
1.1s 90.35nm 5.1mb
Z 20s 1.10um 4.3Msz
LPO 21.93 306 eP 29 04.20 -0.5
0.8s 84.60nm 5.2mb
MEM 22.03 324 iPc 29 06.06 0.5
EPF 22.04 301 eP 29 03.80 -2.0
ENN 22.17 324 iPc 29 07.60 0.6
1.0s 121.00nm 5.3mb
LSF 22.28 310 eP 29 06.80 -1.4
LFF 22.32 306 eP 29 08.20 -0.3
1.0s 100.00nm 5.2mb
DOU 22.42 321 iPc 29 09.20 -0.3
e 29 15.00
S 33 15.00
ECHE 22.44 291 iPc 29 11.90 2.1
WTS 22.58 327 iPc 29 10.90 -0.1
0.7s 66.00nm 5.2mb
DHJN 22.58 133 ePc 29 17.00 5.4X
SNF 22.83 322 Pc 29 13.80 0.3
UCC 22.96 322 P 29 15.80 1.0
S 33 32.00
WIT 23.21 329 eP 29 12.50 -4.7X
ENIJ 23.36 285 iPc 29 20.10 1.3
ETOR 23.39 294 eP 29 19.90 0.7
MFF 23.49 309 eP 29 19.60 -0.4
1.1s 95.25nm 5.3mb
EVIA 23.57 289 iPc 29 23.10 2.1
ECRI 24.00 299 eP 29 24.90 -0.1
LDF 24.28 314 eP 29 27.10 -0.6
0.7s 48.50nm 5.2mb
AFC 24.40 286 iPd 29 32.00 2.8X
ECOG 24.42 286 iPc 29 31.30 2.0
FLN 24.57 314 eP 29 29.80 -0.7
0.8s 94.05nm 5.5mb
Z 22s 1.15um 4.3Msz
EBAN 24.58 288 iPc 29 31.60 0.9
LPF 24.60 312 eP 29 30.30 -0.5
1.0s 128.00nm 5.5mb
GRR 24.64 313 eP 29 30.50 -0.6
1.0s 122.00nm 5.5mb
TOL 24.82 292 iPc 29 34.00 1.0
1.3s 134.62nm 5.5mb
eS 34 06.00
GUD 24.96 294 iPc 29 35.20 0.7
MAL 25.13 284 iPd 29 37.80 1.9
LIJA 25.92 285 eP 30 00.00 16.6X
EJIF 26.00 284 iPc 29 44.90 0.8
IFR 26.11 277 iPc 29 47.50 2.1
UPP 26.17 350 iPc 29 43.30 -2.1
NUR 26.20 358 eP 29 44.00 -1.7
1.0s 84.00nm 5.4mb
e 34 24.00
EPLA 26.39 292 iPc 29 49.60 1.8
CNIL 26.47 284 eP 29 49.00 0.6
EVAL 26.94 287 iPc 29 55.50 2.8X
HFS 27.11 346 eP 29 51.10 -2.9
0.5s 26.10nm 5.2mb

Z 19s 0.85um 4.3Msz
LR 40 19.00
KAF 27.79 360 iP 29 58.20 -2.0
0.5s 12.40nm 4.9mb
NB2 28.45 344 P 30 03.90 -2.4
1.0s 33.60nm 5.1mb
EKA 29.29 325 P 30 12.00 -1.8
0.9s 55.40nm 5.4mb
EBL 29.48 326 ePc 30 15.60 0.0
EDI 29.63 326 ePc 30 17.10 0.2
HYA 29.82 340 eP 30 17.40 -1.1
EDU 29.91 327 ePc 30 19.10 -0.3
0.9s 200.00nm 5.9mb
EBH 29.96 326 ePc 30 20.10 0.2
0.7s 82.00nm 5.7mb
SUE 30.14 339 eP 30 20.10 -1.2
EAB 30.32 326 ePc 30 23.20 0.2
0.8s 103.00nm 5.7mb
RGS 30.39 346 eP 30 22.00 -1.5
BCAO 30.64 196 iPd 30 28.20 2.0
0.5s 13.00nm 5.1mb
VAL 31.56 315 eP 30 34.00 0.1
SOD 33.07 0 iP 30 45.60 -1.3
QUE 34.39 85 eP 31 02.00 2.9X
KEV 35.47 0 iP 31 07.00 -0.6
0.9s 25.30nm 5.1mb
TRO 35.59 356 eP 31 08.00 -0.6
KUK 37.37 228 eP 31 25.30 1.1
KOGH 37.38 227 eP 31 25.00 0.7
SHGH 37.38 227 eP 31 25.00 0.8
TEGH 37.58 226 eP 31 27.00 1.1
LEGH 37.68 227 eP 31 28.00 1.2
LKO 38.30 237 P 31 33.14 1.1
KIC 40.02 233 P 31 47.38 1.0
LIC 40.31 233 Pc 31 50.12 1.4
0.7s 20.00nm 4.9mb
Z 20s 0.80um 4.6Msz
AKU 40.93 334 iP 31 55.00 1.8
1.0s 80.00nm 5.4mb
NDI 43.33 83 iP 32 15.00 1.6
POO 44.91 98 iP 32 27.80 1.5
KBS 45.09 356 eP 32 28.00 1.0
WMO 47.54 59 iPc 32 48.00 1.1
1.5s 100.00nm 5.7mb
Z 16s 0.60um 4.7MszX
eS 39 44.00
HYB 49.34 96 iPc 33 02.00 1.0
1.0s 65.00nm 5.6mb
GKN 49.66 81 P 33 04.00 0.4
DMN 50.20 81 P 33 08.60 0.8
KKN 50.27 81 P 33 08.80 0.5
GBA 50.43 101 P 33 08.00 -1.3
PKI 50.46 81 P 33 10.60 0.7
GUN 50.71 80 P 33 12.40 0.5
KOD 52.35 105 eP 33 25.00 0.7
BUL 54.22 177 iPd 33 40.30 2.6
LSA 54.28 76 P 33 39.40 0.8
GTA 57.46 62 iPc 34 01.20 0.2
1.0s 40.00nm 5.4mb
SLR 59.77 178 iPc 34 17.20 0.1
0.9s 16.81nm 5.2mb
LZH 61.65 64 iPc 34 30.50 0.5
2.0s 110.00nm 5.7mb
Z 22s 0.50um 4.6Msz
pP 34 39.50 29kmX
FRB 61.88 330 ePc 34 30.10 -0.8
0.7s 33.00nm 5.6mb
CD2 63.73 69 iPd 34 44.60 0.9
1.0s 50.00nm 5.7mb
BTO 64.28 57 eP 34 47.80 0.5
SCH 64.44 320 ePc 34 47.80 -0.2
0.4s 37.00nm 5.9mb
HHC 65.25 56 iPc 34 54.80 1.2
1.0s 150.00nm 6.1mb
CHG 65.48 83 ePc 34 55.10 -0.1
1.3s 41.83nm 5.5mb
KMI 65.54 75 Pc 34 55.00 -0.8
XAN 66.29 64 iPc 35 00.50 0.3
BDT 66.31 85 eP 35 01.00 0.5
TIY 67.21 59 Pc 35 06.70 0.6
Z 15s 0.70um 5.0MszX
MBC 67.57 352 ePc 35 07.00 -0.7
0.6s 12.00nm 5.3mb
GYA 68.03 72 iPc 35 11.40 -0.1
LOE 68.48 83 eP 35 14.00 -0.2
BJI 68.76 55 eP 35 16.00 0.3
1.2s 73.00nm 5.8mb

Z 24s 0.32um 4.5MszX
eS 44 19.00
NNT 69.32 89 eP 35 14.80 -4.6X
TIA 71.23 59 Pc 35 31.00 0.2
WHN 71.98 65 eP 35 36.50 1.2
SNY 72.80 51 iPc 35 39.80 -0.2
1.1s 30.00nm 5.3mb
Z 20s 0.61um 4.9Msz
CN2 72.96 48 Pc 35 41.00 0.0
5.0s 200.00nm 5.5mb X
Z 20s 0.90um 5.0Msz
GAC 73.66 314 eP 35 46.50 1.6
0.9s 13.00nm 5.0mb
RSNY 73.71 313 P 35 46.00 0.7
1.0s 24.95nm 5.2mb
BRW 74.63 1 eP 35 49.50 -0.6
MDJ 75.04 46 eP 35 54.00 1.0
ILT 76.34 10 eP 35 59.40 -0.5
1.0s 14.00nm 5.0mb
i 36 25.00
i 36 48.00
e 38 40.00
INK 76.56 352 ePc 36 00.50 -0.6
SOB1 76.93 249 eP 36 06.30 2.2
e 36 09.30
PDCR 77.65 245 eP 36 04.30 -3.7X
YKA 78.53 343 eP 36 11.00 -1.1
0.9s 6.20nm 4.7mb
CBN 79.00 309 eP 36 17.00 1.9
IMA 79.91 0 ePc 36 20.50 0.8
0.9s 14.60nm 4.9mb
FFC 80.82 333 ePc 36 24.20 -0.4
0.8s 26.00nm 5.3mb
FBA 80.98 357 ePc 36 25.90 0.7
ANM 80.99 5 P 36 25.30 0.0
TTA 83.04 1 ePc 36 36.90 0.8
TOA 83.70 356 eP 36 40.60 1.1
PMR 84.34 358 ePc 36 43.10 0.5
1.1s 17.20nm 5.2mb
BALM 84.52 355 P 36 44.70 1.0
SVW 84.88 1 ePc 36 46.60 1.2
MAT 85.11 49 iPc 36 47.40 0.4
1.0s 26.00nm 5.4mb
eS 47 36.00
RSCP 85.80 311 P 36 51.00 0.5
EDM 86.04 337 ePc 36 52.00 0.6
BAO 86.32 248 ePd 36 55.00 1.7
FVM 87.18 315 P 36 58.00 0.8
0.9s 50.85nm 5.8mb
SES 87.62 334 ePd 37 00.20 1.0
1.1s 50.00nm 5.7mb
RSSD 89.82 327 P 37 10.30 0.3
1.0s 20.34nm 5.3mb
PNT 91.39 339 eP 37 17.00 0.1
0.5s 6.00nm 5.2mb
NEW 91.53 337 P 37 18.50 0.9
1.0s 22.50nm 5.5mb
LRM 91.96 333 eP 37 20.40 0.6
BW06 93.32 329 P 37 25.50 -0.6
0.7s 3.90nm 4.9mb
PV09 96.61 326 P 37 41.50 0.1
ANMO 98.17 323 P 37 48.80 0.5
0.9s 3.15nm 5.0mb
ALQ 98.17 323 eP 37 48.80 0.5
1.2s 5.08nm 5.1mb
WRA 115.49 97 iPKPd 42 53.60 -0.2
0.6s 3.30nm
WB2 115.50 97 iPKPd 42 53.60 -0.2
0.6s 3.30nm
S.D. = 1.3 on 334 of 366 obs.

MAR 15, 1991 04h 28m 16.30± 1.50s
28.317 N ± 9.3km 87.683 E ± 7.6km
DEPTH = 42.6 ± 16.7 km
4.6mb (7 obs.)
TIBET (306)

LSA 3.33 65 Pg 29 12.80 5.1X
Sn 29 51.10
NDI 9.22 275 iPc 30 29.50 -0.2
0.4s 33.90nm 5.8mb X
HYB 13.72 220 eP 31 29.50 -0.9
eS 33 51.00
WMQ 15.47 0 P 31 55.00 1.8
LZH 15.71 56 iPd 31 55.50 -0.9
1.5s 28.00nm 4.2mb
pP 32 04.50

POO 15.99 235 eP 31 54.50 -5.4X
eS 34 42.00
GYA 16.96 92 P 32 11.60 -0.6
GBA 17.47 215 P 32 20.00 1.5
S 35 20.00
QUE 18.19 281 eP 32 30.20 2.7X
XAN 19.03 67 iPd 32 36.20 -1.4
KOD 20.39 210 eP 32 57.10 4.5X
TIY 22.72 59 eP 33 16.20 0.6
HHC 23.22 51 eP 33 22.20 1.7
HFS 57.98 325 eP 38 05.50 -1.1
0.7s 12.90nm 5.1mb
Z 16s 0.05um 3.7MszX
LR 58 58.00
NB2 59.16 327 P 38 13.20 -1.7
0.5s 2.20nm 4.5mb
WRA 65.84 131 iPd 39 00.20 0.4
0.4s 3.90nm 4.8mb
WB2 65.85 131 iPd 39 00.20 0.4
0.4s 3.90nm 4.8mb
EKA 67.68 322 P 39 11.00 0.0
1.0s 6.50nm 4.6mb
INK 78.96 14 eP 40 17.00 0.3
YKA 87.76 10 eP 41 01.70 0.0
0.8s 0.40nm 3.7mb
S.D. = 1.2 on 16 of 20 obs.

& MAR 15, 1991 06h 54m 08.29s
37.746 N 77.916 W
DEPTH = 17.5km
VIRGINIA (492)
<BLA>. mbLg 3.8 (BLA). Felt (V) at Goochland, Kents Store, Sandy Hook and Troy; (IV) at Bumpass, Crozier, Dillwyn, Fork Union, Hodensville, Oilville and Rockville; (III) at Amherst, Beaverdam, Bremo Bluff, Maidens, Monakin Sobat, Mineral, Mine Run, Scottsville and Somerset.

GHV 0.16 288 P 54 12.36 -0.3
NA12 0.24 7 P 54 13.54 -0.3
NA2 0.40 19 P 54 16.22 -0.4
CVL 0.49 299 P 54 17.81 -0.3
CBN 0.63 43 eP 54 20.10 -0.3
e 54 28.30
CNV 0.63 43 P 54 20.04 -0.4
FRV 0.65 213 P 54 20.38 -0.4
PBV 0.82 158 eP 54 23.39 -0.3
BLA 2.06 256 eP 54 44.80 2.2
NAV 2.33 260 eP 54 48.60 2.2
PNJ 4.30 42 Pn 55 13.00 -1.3
JSC 4.39 219 e(P) 55 15.00 -0.7
CLE 4.67 324 iP 55 08.90 -10.7
SGS 5.01 206 e(P) 55 25.00 0.6
PRM 5.14 226 e(P) 55 27.40 1.2
TKL 5.15 248 eP 55 28.00 1.6
RSNY 7.26 20 P 56 00.00 3.9
FVM 9.90 275 P 56 40.00 7.3
18 obs. associated

• MAR 15, 1991 07h 43m 36.37± 0.60s
25.526 N ±11.1km 141.315 E ±10.6km
DEPTH = 33.0km (normal)
4.9mb (6 obs.)
VOLCANO ISLANDS REGION (213)

BJI 25.50 311 eP 49 03.00 -0.3
LZH 33.68 297 eP 50 17.00 0.4
2.0s 50.00nm 5.1mb
Z 22s 0.30um 4.0Msz
pP 50 25.50 29kmX
sP 50 28.50
i 52 09.20
CHTO 39.68 269 (P) 51 08.00 0.7
WB2 45.70 189 iPd 51 55.90 -0.2
0.7s 22.50nm 5.2mb
WRA 45.70 189 iPd 51 55.90 -0.3
0.7s 22.50nm 5.2mb
ILT 48.80 19 eP 52 20.00 0.1
GUN 49.22 286 P 52 24.86 0.7
PKI 49.69 285 P 52 27.92 0.2
KKN 49.76 286 P 52 28.60 0.4
DMN 49.95 286 P 52 28.86 -0.8
GKN 50.28 286 P 52 32.40 0.4
GBA 60.86 272 P 53 48.00 -0.3

INK 64.78 24 eP 54 13.00 -0.5
YKA 73.89 28 eP 55 04.00 -5.5X
0.8s 2.20nm 4.2mb
SES 81.14 38 eP 55 51.00 1.1
FFC 83.48 31 eP 56 03.00 1.1
0.7s 6.00nm 4.8mb
NB2 84.77 338 P 56 05.80 -2.6
0.8s 1.30nm 4.2mb
S.D. = 0.9 on 16 of 17 obs.

• MAR 15, 1991 07h 56m 42.10± 1.67s
23.259 N ± 7.1km 120.084 E ±13.4km
DEPTH = 10.0km (geophysicist)
TAIWAN (244)

TWK 0.37 89 iPd 56 49.80 0.0
eS 56 55.30
TWM1 0.53 144 ePc 56 53.10 0.2
TWG 1.01 115 ePc 57 01.00 -0.2
TWF1 1.12 85 ePd 57 02.70 -0.4
eS 57 17.40
TWO 1.22 34 iPc 57 05.10 0.2
eS 57 21.90
TWD 1.61 59 eP 57 11.00 0.4
SSE 7.87 7 eP 58 39.00 -0.3
eS 00 09.00
eLg 00 58.50
S.D. = 0.4 on 7 of 7 obs.

• MAR 15, 1991 08h 22m 54.15± 0.51s
5.715 N ± 8.4km 32.301 E ±11.2km
DEPTH = 10.0km (geophysicist)
4.8mb (11 obs.)
SUDAN (557)
mbLg 4.8 (BUL).

NAI 8.27 147 iPd 24 57.50 0.2
1.0s 23.00nm 5.4mb
S 26 50.00
MTD 22.36 182 iP 28 04.00 9.9X
iS 31 50.00
iLg 34 34.40
KRI 22.56 187 iP 27 56.90 0.8
iS 31 47.80
iLg 34 11.00
PRNI 24.63 6 eP 28 20.00 3.9X
BUL 25.95 188 iP 28 29.80 1.0
iS 32 47.80
iLg 36 02.00
TIC 37.11 273 P 30 04.00 -3.0
LKO 37.73 278 P 30 12.06 -0.2
1.1s 19.50nm 4.8mb
SRO 43.62 346 eP 31 06.80 6.5X
ZST 44.27 345 eP 31 08.60 3.0X
SPC 44.51 349 eP 31 09.30 1.5
LPG 45.43 335 eP 31 14.60 -0.7
LPL 45.45 335 eP 31 15.00 -0.4
KHC 46.08 343 iPd 31 21.10 1.0
1.1s 8.00nm 4.6mb
SMF 47.59 334 eP 31 32.00 0.0
0.9s 9.00nm 4.9mb
MAF 47.85 332 eP 31 34.50 0.5
1.0s 10.00nm 4.9mb
AVF 47.92 333 eP 31 34.50 -0.1
1.1s 12.20nm 4.9mb
MOX 48.01 342 e(P) 31 36.00 0.7
LOR 48.06 334 eP 31 35.30 -0.4
1.0s 8.00nm 4.8mb
Z 21s 0.15um 3.9Msz
TCF 48.06 332 eP 31 36.20 0.5
1.2s 13.40nm 4.9mb
CLL 48.20 344 eP 31 39.00 2.3
GKN 54.28 60 PKP 32 24.48 1.3
DMN 54.59 60 PKP 32 25.32 -0.3
KKN 54.78 60 PKP 32 25.36 -1.7
PKI 54.84 60 PKP 32 25.26 -2.3
NUR 54.97 355 eP 32 28.00 0.5
GUN 55.33 60 PKP 32 26.90 -4.2X
APO 56.44 349 eP 32 37.10 -1.1
0.4s 1.60nm 4.4mb
KAF 56.45 357 iP 32 39.10 0.9
0.6s 6.70nm 4.8mb
NB2 57.43 348 P 32 44.30 -1.0
1.1s 10.50nm 4.8mb
S.D. = 1.3 on 24 of 29 obs.

MAR 15, 1991 09h 28m 22.07± 0.72s

15d 09h

56.838 N ± 7.0km 153.083 W ± 6.1km
DEPTH = 33.0km (normal)
4.2mb (5 obs.)
KODIAK ISLAND REGION (13)
ML 4.5 (PMR).

SYI	1.82	12	iP	28 52.87	1.4
			eS	29 21.15	
CDD	2.12	352	iP	28 57.47	1.6
MCNL	2.45	345	eP	29 01.01	0.4
			eS	29 36.07	
AUI	2.51	356	eP	29 02.82	1.4
AUE	2.53	357	eP	29 03.49	1.7
AUH	2.54	356	eP	29 03.47	1.5
XLV	2.72	15	eP	29 05.78	1.4
CNPM	2.87	19	iP	29 07.84	1.3
HOM	2.93	14	eP	29 08.24	0.9
PDB	3.02	349	iP	29 08.70	0.1
BRLK	3.16	21	eP	29 11.30	0.7
NNL	3.35	16	eP	29 14.54	1.2
RED	3.60	2	eP	29 17.20	0.3
RSO	3.64	3	eP	29 18.05	0.4
RS2	3.64	3	eP	29 18.00	0.4
REF	3.67	3	iP	29 18.37	0.4
RDN	3.69	2	eP	29 18.71	0.4
NCT	3.74	1	eP	29 19.20	0.3
RDT	3.76	5	iP	29 19.42	0.2
SEW	3.79	29	eP	29 19.13	-0.4
SLKM	3.97	21	iP	29 22.13	-0.1
NKA	4.03	13	iP	29 24.51	1.5
MTU	4.26	40	eP	29 25.23	-1.0
CKL	4.39	5	eP	29 27.77	-0.5
SPU	4.39	7	eP	29 27.83	-0.3
SDN	4.42	253	eP	29 26.50	-1.9
BGL	4.45	4	eP	29 29.06	-0.1
CRP	4.47	6	eP	29 29.99	0.6
SVW	4.48	344	iPc	29 28.70	-0.8
KNIM	4.50	36	eP	29 28.63	-1.0
NCG	4.61	6	eP	29 30.81	-0.5
PMS	4.78	21	ePc	29 33.20	-0.4
SUA	4.79	14	eP	29 33.25	-0.7
PWA	5.10	17	eP	29 37.81	-0.3
GLI	5.11	35	eP	29 37.20	-1.1
PNK	5.17	26	eP	29 38.15	-1.0
PERM	5.18	21	eP	29 38.14	-1.2
PMR	5.18	21	ePc	29 38.30	-1.0
SKT	5.22	8	eP	29 39.05	-0.8
GHO	5.39	22	eP	29 41.06	-1.2
VZW	5.42	36	eP	29 41.78	-0.9
KLU	5.94	35	eP	29 49.70	-0.5
TTA	6.29	348	eP	29 53.50	-1.5
TOA	6.35	31	iPd	29 55.90	0.1
BALM	6.97	48	eP	30 04.00	-0.5
FBA	8.49	15	eP	30 23.20	-2.4
IMA	9.27	358	eP	30 33.90	-2.6
ANM	9.80	327	eP	30 41.50	-2.1
INK	14.51	30	eP	31 46.00	-0.7
ILT	16.09	324	eP	32 05.50	-1.5
	1.5s		15.00nm		3.9mb
	Z 16s		1.10um		4.7Msz
			i	32 08.00	
			i	32 20.40	
			e	32 31.50	
YKA	20.00	58	eP	32 54.60	0.3
	1.1s		2.50nm		3.5mb
PNT	21.29	96	eP	33 12.00	4.3X
MBC	22.99	20	ePc	33 26.50	2.2
	1.0s		13.00nm		4.4mb
NB2	61.82	9	P	38 39.00	-0.5
	0.8s		2.20nm		4.3mb
NUR	62.98	1	eP	38 47.00	-0.1
MOX	72.14	10	eP	39 46.00	1.3
KHC	73.82	9	eP	39 56.30	1.7
KBA	75.84	10	e(P)	40 07.50	1.1
	0.7s		3.60nm		4.5mb
GUN	82.06	310	P	40 41.20	0.6
KKN	82.41	310	P	40 43.00	0.7
GKN	82.49	311	P	40 43.00	0.4
PKI	82.55	310	P	40 43.60	0.4
DMN	82.64	311	P	40 43.80	0.3
	S.D. = 1.1		on 62 of 63 obs.		

% MAR 15, 1991 09h 48m 51.51± 2.97s
23.267 N ± 8.1km 120.098 E ±22.2km
DEPTH = 10.0km (geophysicist)
TAIWAN (244)

TWK	0.36	90	iPd	48 59.20	0.3
			eS	49 06.30	
TWM1	0.53	146	eP	49 02.40	0.1
TWG	1.00	116	ePc	49 10.30	-0.2
			eS	49 25.30	
TWF1	1.11	85	iPd	49 12.00	-0.3
TWQ	1.21	34	eP	49 14.10	0.1
	S.D. = 0.3		on 5 of 5 obs.		

? MAR 15, 1991 10h 28m 57.84± 0.96s
39.102 N ± 8.4km 27.592 E ±14.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZM	0.75	200	ePg	29 12.50	0.0
			eSg	29 24.50	
DST	0.95	58	ePn	29 16.00	0.1
EDC	1.26	9	ePn	29 21.00	-0.3
KGT	1.37	351	ePn	29 23.10	0.2
	S.D. = 0.3		on 4 of 4 obs.		

? MAR 15, 1991 11h 20m 27.94± 1.08s
42.122 N ± 9.8km 0.420 E ± 9.7km
DEPTH = 10.0km (geophysicist)
PYRENEES (378)
mbLg 2.8 (MDD).

EROQ	1.30	180	iPd	20 52.00	0.0
			eS	21 09.50	
E8R	1.30	178	eP	20 52.00	0.0
			eS	21 11.00	
ETER	1.82	84	eP	20 59.50	0.0
			eS	21 22.50	
ECRI	2.23	284	iPd	21 05.50	0.0
			eS	21 33.00	
ETOR	2.27	236	eP	21 10.00	3.8X
			eS	21 38.00	
	S.D. = 0.0		on 4 of 5 obs.		

MAR 15, 1991 11h 38m 46.74± 0.99s
41.708 N ± 7.4km 22.970 E ± 8.4km
DEPTH = 5.0km (geophysicist)
YUGOSLAVIA (383)
MD 2.9 (THE). ML 2.7 (SKO).

VAY	0.49	218	iPg	38 56.70	0.1
			iSg	39 03.40	
KNT	0.55	186	eP	38 57.80	0.1
SRS	0.75	141	eP	39 01.80	-0.1
GRG	0.86	210	eP	39 03.20	-0.7
			eS	39 04.90	
SOH	0.93	162	eP	39 05.10	0.1
THE	1.08	180	eP	39 07.10	-0.3
PGB	1.22	46	iPd	39 10.00	0.0
			iSg	39 25.00	
LIT	1.65	193	eP	39 17.40	1.0
PAIG	1.86	163	eP	39 19.30	-0.2
			eS	39 46.50	
	S.D. = 0.5		on 9 of 9 obs.		

% MAR 15, 1991 11h 53m 52.47± 2.16s
38.702 N ±14.0km 26.790 E ±20.4km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

IZM	0.48	129	iPg	54 02.10	-0.1
			eSg	54 09.50	
EZN	1.18	342	ePn	54 14.90	0.5
DST	1.69	57	ePn	54 23.00	0.8
KGT	1.79	13	ePn	54 23.00	-0.6
BNT	1.87	28	ePn	54 24.30	-0.5
	S.D. = 0.8		on 5 of 5 obs.		

? MAR 15, 1991 11h 56m 08.39± 1.23s
43.050 N ±13.7km 0.505 W ± 6.8km
DEPTH = 5.0km (geophysicist)
PYRENEES (378)
MD 1.3 (STR).

ESCF	0.06	299	Pg	56 10.18	0.2
			Sg	56 11.22	
JAU	0.10	97	Pg	56 10.70	0.0
			Sg	56 12.22	
OGE	0.12	11	Pg	56 10.92	0.0
			Sg	56 12.98	
ATE	0.15	284	Pg	56 11.38	-0.1
			Sg	56 14.43	
	S.D. = 0.2		on 4 of 4 obs.		

? MAR 15, 1991 12h 00m 16.16± 1.17s
9.228 S ±15.2km 125.984 E ±19.5km
DEPTH = 33.0km (normal)
4.1mb (3 obs.)
TIMOR (289)

MTN	6.20	126	eP	01 52.10	4.3X
	0.3s		154.00nm		6.2mb X
			eS	02 57.00	
MBL	13.26	206	eP	03 23.50	-1.2
WRA	13.37	144	iPc	03 25.10	-1.1
	0.4s		9.10nm		5.1mb X
			eS	05 45.40	
WB2	13.38	144	iPc	03 25.10	-1.2
	0.4s		9.10nm		5.1mb
			eS	05 45.40	
ASPA	16.23	153	eP	04 05.30	1.8
	0.6s		4.90nm		3.8mb
			iS	06 56.80	
WARB	16.88	178	eP	04 13.00	1.4
	0.4s		4.00nm		3.9mb
GUN	53.55	315	P	09 37.20	0.5
GKN	54.48	314	P	09 43.00	-0.3
YKA	111.48	26	ePKP	18 51.40	3.1X
	0.8s		0.40nm		
	S.D. = 1.6		on 7 of 9 obs.		

% MAR 15, 1991 12h 06m 40.74± 2.95s
23.252 N ± 8.0km 120.113 E ±22.2km
DEPTH = 10.0km (geophysicist)
TAIWAN (244)

TWK	0.35	88	iPd	06 48.10	0.2
			eS	06 55.10	
TWM1	0.51	146	ePc	06 51.20	0.1
TWG	0.98	116	ePd	06 59.30	-0.1
			eS	07 14.10	
TWF1	1.09	85	eP	07 01.10	-0.2
TWQ	1.21	33	ePc	07 03.40	0.0
	S.D. = 0.2		on 5 of 5 obs.		

• MAR 15, 1991 12h 33m 57.93± 1.36s
6.717 N ±10.2km 76.866 W ± 8.2km
DEPTH = 27.2 ± 10.2 km
4.5mb (3 obs.)
NORTHERN COLOMBIA (99)

UPA	3.47	311	ePc	34 51.10	-0.4
UAV	5.97	71	ePn	35 29.40	2.3
SDV	6.54	70	iPnc	35 36.70	1.6
TOV	7.64	66	eP	35 50.50	0.2
CEOS	8.76	74	iP	36 03.90	-2.0
MORO	9.40	63	iP	36 12.90	-2.0
ZOBO	24.42	159	P	39 15.70	-0.5
LPB	24.67	159	P	39 19.00	0.5
CNCB	24.97	159	P	39 21.00	-0.5
SIV	27.45	145	P	39 44.40	0.5
GOL	41.64	326	P	41 45.60	-0.3
TNP	48.03	317	P	42 38.50	1.3
			e	42 43.50	
SCH	48.64	8	eP	42 42.00	0.6
YKA	62.12	341	eP	44 16.40	-2.3
	0.6s		1.60nm		4.3mb
LKO	70.51	82	P	45 12.36	-0.6
	0.9s		11.50nm		5.0mb
TIC	71.29	85	P	45 16.80	-0.9
LIC	71.32	86	P	45 17.00	-0.8
KIC	71.59	86	P	45 19.00	-0.5
INK	71.89	341	eP	45 20.00	-0.2
NB2	83.24	29	P	46 24.70	1.5
	1.0s		3.50nm		4.5mb
WB2	146.98	243	ePKP	53 38.20	-0.4
	0.9s		2.30nm		
GBA	147.46	52	PKP	53 42.00	2.6
	S.D. = 1.4		on 22 of 22 obs.		

% MAR 15, 1991 12h 48m 54.99± 0.69s
41.364 N ± 6.3km 28.173 E ± 4.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

CTT	0.29	138	iPg	49 00.80	-0.3
DMK	0.55	326	iPg	49 05.90	-0.3
			iSg	49 13.90	
ISK	0.73	114	iPg	49 08.80	-0.5

			eSg	49	19.00		PLD	4.22	48	eP	31	27.00	1.5	PSZ	8.59	357	iP	32	26.00	-1.1
BNT	1.02	191	iPg	49	13.70	-0.7	PGB	4.24	40	iPd	31	28.00	2.1	SRO	8.62	350	iP	32	27.20	-0.2
EDC	1.04	193	iPg	49	14.50	-0.2				S	32	13.00		BDI	8.78	306	P	32	30.50	0.7
			iSg	49	27.50		RDO	4.25	63	eP	31	25.00	-1.0	MME	8.79	307	P	32	31.50	1.5
GBZT	1.12	120	ePg	49	16.00	0.0	KDZ	4.40	57	iPc	31	28.00	-0.1	VVI	8.91	321	P	32	30.00	-1.5
			iSg	49	31.50		PRK	4.47	89	eP	31	30.00	0.9				eSn	34	04.80	
KGT	1.12	216	iPn	49	15.50	-0.6	EZN	4.52	82	iP	31	30.90	1.1	ZST	9.19	346	eP	32	34.30	-0.9
YLV	1.21	131	iPn	49	17.60	0.1	DIM	4.68	53	iP	31	34.00	1.8	FVI	9.19	325	P	32	33.90	-1.4
HRT	1.25	115	iPn	49	18.90	0.6				Sg	32	46.00					eSn	34	11.50	
EYL	1.70	117	ePn	49	25.30	0.3	MNO	4.76	255	P	31	34.90	1.3	PGF	9.28	294	eP	32	38.20	1.5
EZN	2.08	223	ePn	49	31.90	1.5				eSn	32	30.50			1.3s	57.75nm				5.8mb X
S.D. = 0.7 on 11 of 11 obs.							HVAR	4.90	323	ePn	31	34.20	-1.1	KBA	9.33	328	iPd	32	36.00	-1.4
----------										iSn	32	30.50					i	32	36.50	
MAR 15, 1991 13h 30m 19.80± 0.31s							DUI	5.16	299	P	31	41.00	2.0				i	32	50.50	
39.341 N ± 4.0km 20.508 E ± 2.2km							PVL	5.31	42	iPd	31	39.00	-2.0				i	34	17.10	
DEPTH = 10.0km (geophysicist)										iS	32	38.00					iS	34	19.50	
4.8mb (34 obs.)							KGT	5.34	76	eP	31	41.80	0.3				i	34	40.80	
GREECE-ALBANIA BORDER REGION (392)							IZM	5.35	98	eP	31	41.50	-0.3	CTI	9.35	319	P	32	35.80	-1.8
ML 5.0 (ROM), 4.5 (ATH), 4.5							RFI	5.36	294	P	31	44.27	2.6X				eSn	34	14.90	
(TTG). MD 4.5 (THE).							BEO	5.48	360	iPnc	31	43.60	0.2	VKA	9.42	343	i(P)	32	41.70	3.2X
										i(Pb)	31	58.50					iS	34	19.40	
IGT	0.23	325	ePc	30	27.05	2.2				i(Sg)	33	36.50					LR	37	03.00	
			eS	30	34.10		JMB	5.56	54	P	31	44.00	-0.6	BBTK	9.47	83	iP	32	48.00	8.6X
KEK	0.66	304	eP	30	34.50	1.5				(S)	33	18.00		BOB	9.85	307	P	32	44.20	-0.3
VLS	1.16	177	iP	30	38.00	-3.6X	SDI	5.62	297	P	31	47.60	2.1	SPC	9.85	359	eP	32	43.60	-0.9
KZN	1.37	45	eP	30	47.00	2.0	EDC	5.75	78	iP	31	47.50	0.2	KMR	9.86	334	iPn	32	42.30	-2.2
AGG	1.45	102	iPc	30	45.50	-0.6	NPS	5.75	133	eP	31	43.00	-4.3X				iSn	33	38.80	
FNA	1.59	25	iPd	30	50.50	2.4	BNT	5.79	78	iP	31	47.00	-0.9	BHG	10.04	329	iPc	32	46.50	-0.5
LIT	1.71	63	iPd	30	50.42	0.6	AZI	5.99	298	P	31	52.70	2.1	WTTA	10.22	324	iPd	32	48.60	-1.0
			eS	31	14.22		DRA	6.02	26	eP	31	55.00	4.0X				i	32	48.80	
OHR	1.78	7	iPnc	30	55.40	4.5X	DMK	6.05	64	iP	31	51.00	-0.4				i	33	03.80	
			iSn	31	22.00		AQU	6.17	301	P	31	54.80	1.6				iS	34	37.40	
GRG	2.17	41	ePd	30	58.50	2.0	ALP	6.26	305	iPnd	31	55.50	0.8				i	34	53.00	
			eS	31	28.30					iSn	33	05.35		MDI	10.23	312	P	32	47.40	-2.2
LCI	2.20	298	P	30	57.00	0.1	DST	6.29	85	eP	31	55.80	0.9	CKI	10.43	303	P	32	51.50	-1.0
			eSn	31	25.00		CTT	6.32	71	iP	31	54.80	-0.6	KRA	10.72	358	eP	32	56.30	0.0
THE	2.29	55	iPc	30	59.66	1.5	BZS	6.32	7	ePc	31	55.00	-0.3	SBF	10.78	299	eP	32	55.80	-1.5
			eS	31	29.80		RMP	6.43	295	P	31	59.00	2.1		1.2s	41.65nm				5.7mb
PAIG	2.52	76	ePc	31	01.82	0.4	BUC1	6.48	38	eP	32	00.00	2.5	VAI	10.83	311	P	32	58.20	0.4
			eS	31	33.26		YER	6.50	107	eP	31	58.00	0.0	KHC	10.97	335	iPd	32	58.00	-1.8
VAY	2.53	38	iPnc	31	03.70	2.2	BUC	6.56	38	eP	32	00.00	1.3		1.0s	7.50nm				5.0mb
			i	31	06.70		SSO	6.64	309	ePn	32	01.66	1.9	N	10s	1.30um				
			iSn	31	29.50					eSn	33	16.10		E	10s	1.50um				
			iSg	31	32.40		MNS	6.67	300	P	32	02.40	2.2	ORO	11.17	308	P	33	01.00	-1.7
			LQ	32	02.00		AOI	6.68	311	ePn	32	00.03	-0.3	WET	11.22	333	eP	33	00.30	-2.8
KNT	2.58	44	ePc	31	03.98	1.7				iSn	33	10.00		FRF	11.22	297	eP	33	03.30	0.0
SOH	2.64	55	eP	31	04.80	1.6	ITU	6.74	72	eP	32	00.00	-1.3		0.7s	5.50nm				5.0mb
SKO	2.72	15	iPg	31	18.20	13.8X	CIO	6.75	307	iPn	32	01.15	-0.3	LMR	11.25	295	eP	33	03.40	-0.3
Z	11s	15.74um								iSn	33	15.25			1.1s	17.10nm				5.3mb
N	10s	13.42um					ISK	6.77	73	eP	31	57.00	-4.6X	LRG	11.39	296	eP	33	04.40	-1.1
E	10s	13.42um					DEV	6.77	14	ePc	32	07.50	5.9X		1.1s	39.05nm				5.6mb
			i	31	18.90		YLV	6.92	77	eP	32	02.30	-1.5	PRU	11.46	340	Pd	33	05.40	-0.9
			i	31	46.50		ASS	6.99	305	P	32	06.00	1.2		1.5s	29.00nm				5.4mb
			iSg	31	51.70		ARV	7.04	309	P	32	04.90	-0.5	Z	11s	2.40um				
			i	31	59.00					eSn	33	22.90		E	12s	2.50um				
			LR	32	00.50		KHL	7.11	95	eP	32	06.60	0.1				e	33	21.90	
ULC	2.79	340	iPnc	31	07.27	2.0	HRT	7.18	75	eP	32	17.00	9.6X				e	35	22.00	
			iSn	31	42.19		PSN	7.21	51	eP	32	10.00	2.3	BNI	11.73	304	P	33	10.10	-0.2
ATH	2.86	118	eP	31	07.00	0.7	VBY	7.28	329	iPnc	32	08.10	-0.6	LPG	11.88	306	eP	33	12.00	-0.4
SRS	2.95	52	ePc	31	09.02	1.4				iSn	33	28.90			0.6s	16.25nm				5.5mb
BRT	2.96	302	P	31	09.70	2.0	ISR	7.32	36	ePd	32	11.00	1.7	KSP	11.88	347	eP	33	10.50	-1.6
BDV	3.20	337	iPnc	31	12.47	1.3	UZD	7.38	350	e(P)	32	10.00	-0.2				e	36	58.00	
			iSn	31	52.42		ALT	7.46	89	iP	32	13.30	1.9	LPL	11.90	306	eP	33	11.90	-0.7
ORI	3.21	284	P	31	13.20	1.9	EYL	7.51	78	eP	32	11.30	-0.9		0.6s	6.30nm				5.1mb
TTG	3.23	343	iPnc	31	13.35	1.9	RIY	7.52	325	ePn	32	10.80	-1.2	RSL	12.04	306	P	33	15.59	1.1
			iSn	31	51.95					iSn	33	34.70		GRF	12.28	330	eP	33	13.20	-4.3X
TDS	3.24	277	P	31	14.40	2.7X	GPA	7.60	80	iP	32	10.30	-3.1	Z	14s	0.80um				
			eSn	31	52.40		CVO	7.71	31	eP	32	16.00	1.3				e(S)	35	07.00	
VLI	3.25	143	eP	31	10.00	-1.8	CRE	7.72	306	P	32	15.20	0.2	BRG	12.42	340	eP	33	17.60	-1.8
PVY	3.28	353	iPnc	31	15.42	3.1X				eSn	33	39.10			1.0s	16.00nm				5.2mb
			iSn	31	56.49		MAO	7.73	296	P	32	17.00	2.0				i	36	08.60	
BAI	3.31	304	P	31	14.00	1.4	CEY	7.81	327	ePnc	32	15.20	-1.0	FEL	12.43	317	eP	33	18.27	-1.4
HCY	3.46	335	iPnc	31	15.54	0.8				eSn	33	40.50		LOMF	12.76	313	P	33	24.44	0.4
			iSn	31	55.27		ELL	7.86	106	eP	32	18.50	1.5	MOF	12.88	316	P	33	25.23	-0.4
IVA	3.56	353	iPnc	31	19.19	3.0X	VRI	7.97	33	ePc	32	20.00	1.6	MOX	12.92	334	eP	33	24.00	-2.1
			iSn	32	01.62		PGD	7.99	307	P	32	19.80	0.9		0.9s	27.00nm				5.4mb
NKY	3.65	342	iPnc	31	19.05	1.4	LJU	8.01	329	ePnc	32	17.60	-1.4	BSF	13.06	315	eP	33	26.10	-1.9
			iSn	32	02.54					eSn	33	45.00			0.8s	10.75nm				5.1mb
SOI	3.71	251	P	31	20.00	1.7	TRI	8.08	324	iPnd	32	18.50	-1.4	ECH	13.09	317	P	33	27.89	-0.4
BRY	3.85	338	iPnc	31	21.17	0.7				iSn	33	45.50		WLS	13.11	318	P	33	27.74	-0.9
			iSn	32	07.04					i	34	37.00		CDF	13.15	318	P	33	28.57	-0.6
MGR	3.90	283	P	31	23.20	2.1	CFR	8.14	42	eP	32	21.00	0.3	GWF	13.34	320	P	33	31.51	-0.1
PLE	4.07	348	iPnd	31	25.99	2.5	BUD	8.21	353	e(P)	32	20.00	-1.7	HAU	13.40	315	eP	33	30.80	-1.7
			iSn	32	15.39		FIR	8.23	306	ePn	32	22.00	0.0	HRI	13.69	112	eP	33	32.00	-4.4X
ATN	4.12	255	P	31	24.20	0.1				iSn	33	50.00		VITF	13.72	315	P	33	35.08	-1.5
			eSn	32	13.60		VOY	8.27	326	iPn	32	21.50	-1.2	BRN	14.02	341	ePd	33	50.00	9.5X
SGO	4.18	289	P	31	27.50	2.6X				eSn	33	52.50		BRL	14.05	342	eP	33	50.00	9.1X

15d 13h

SMF	14.20	306	eP	33 44.00	1.0
	1.1s		8.80nm		4.4mb
LBF	14.26	308	eP	33 44.50	0.7
	0.6s		9.45nm		4.7mb
DSI	14.38	118	eP	33 41.00	-4.3X
			eS	36 10.00	
LOR	14.46	309	eP	33 47.00	0.6
	0.5s		6.55nm		4.5mb
AVF	14.57	306	eP	33 49.00	1.3
	1.0s		14.00nm		4.5mb
SSF	14.59	307	eP	33 49.40	1.4
	1.0s		22.00nm		4.7mb
CAF	14.77	298	eP	33 51.50	1.0
	1.1s		14.65nm		4.4mb
BGF	14.79	305	eP	33 50.20	-0.5
	1.1s		22.00nm		4.6mb
MAF	14.84	303	eP	33 50.40	-1.0
	1.0s		9.00nm		4.2mb
MBH	15.19	125	eP	33 52.00	-4.1X
ENN	15.35	323	eP	33 59.00	1.1
	1.1s		32.00nm		4.6mb
DOU	15.57	319	P	34 06.90	6.1X
LPF	17.80	306	eP	34 29.80	0.8
	1.3s		36.10nm		4.3mb
GRR	17.82	307	eP	34 30.20	0.9
	1.0s		16.00nm		4.1mb
TOL	18.92	279	eP	34 45.00	2.1
			eS	38 07.00	
TAB	20.17	85	eP	34 54.00	-3.3X
UPP	20.62	356	iP	34 59.40	-2.1
HFS	21.25	351	eP	35 06.00	-2.1
	0.3s		2.60nm		4.1mb
Z	14s		0.27um		3.8MszX
			LR	42 37.00	
NUR	21.35	6	eP	35 07.00	-2.0
IFR	21.40	262	iP	35 11.50	1.6
NB2	22.48	348	P	35 18.80	-1.6
	0 7s		11.60nm		4.5mb
EKA	22.48	323	Pc	35 19.90	-0.5
	1.0s		48.30nm		4.9mb
KAF	23.08	7	eP	35 24.00	-2.2
TIO	24.14	258	iP	35 41.00	4.0X
SOD	28.29	5	iP	36 14.10	-0.9
BCAO	34.79	183	iPd	37 12.90	0.2
	0.9s		11.00nm		4.7mb
LKO	37.73	225	P	37 35.90	-1.6
KIC	39.95	221	P	37 55.00	-1.0
LIC	40.21	222	P	37 57.60	-0.6
NDI	47.51	85	eP	38 55.00	-2.0
GKN	53.55	82	P	39 39.00	-4.2X
DMN	54.11	82	P	39 44.06	-3.3X
KKN	54.15	81	P	39 43.38	-4.3X
PKI	54.36	82	P	39 44.40	-5.0X
GUN	54.55	81	P	39 46.60	-4.2X
GTA	59.29	62	eP	40 20.80	-3.3X
	1.2s		10.00nm		4.8mb
CD2	66.36	69	eP	41 07.20	-3.8X
HHC	66.39	56	eP	41 08.20	-2.9
XAN	68.31	63	P	41 20.00	-3.3X
CHTO	69.53	82	P	41 25.60	-5.3X
INK	70.92	350	eP	41 37.00	-1.6
ILT	72.10	8	eP	41 45.00	-0.7
	1.4s		12.00nm		4.8mb
			e	42 07.00	
YKA	72.30	340	eP	41 45.00	-1.9
	1.0s		2.70nm		4.3mb
CN2	73.10	47	eP	41 49.80	-2.2
FFC	74.18	329	ePd	41 57.90	-0.1
	1.3s		21.00nm		5.0mb
IMA	74.83	358	eP	42 01.40	-0.4
FBA	75.69	355	P	42 06.40	-0.2
	0.8s		6.21nm		4.7mb
PWA	79.06	355	eP	42 25.50	0.3
SLKM	80.22	355	P	42 31.70	0.2
SES	81.03	331	eP	42 36.00	-0.1
NEW	85.01	333	P	42 55.00	-1.6
	0.8s		8.33nm		5.0mb
PV09	89.82	323	P	43 19.80	-0.6
ANMO	91.32	319	P	43 24.50	-2.7
	0.5s		1.76nm		4.7mb
ALO	91.32	319	eP	43 26.00	-1.2
	1.0s		3.00nm		4.6mb

S.D. = 1.4 on 172 of 205 obs.

% MAR 15, 1991 13h 46m 12.28± 0.67s
39.005 N ± 6.1km 29.669 E ± 6.0km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

ALT	0.35	82	iPg	46 19.30	-0.2
			iSg	46 25.30	
KHL	0.69	190	iPg	46 26.10	0.1
			iSg	46 36.60	
DST	1.01	307	iPn	46 31.50	0.1
GPA	1.37	21	ePn	46 37.30	-0.2
YLV	1.58	352	iPn	46 39.80	-0.6
KCT	1.60	321	ePn	46 40.70	0.0
EYL	1.60	13	ePn	46 41.80	1.0
KGT	2.33	309	ePn	46 51.00	-0.2

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

? MAR 15, 1991 13h 55m 07.34± 1.09s
40.839 N ± 8.9km 29.439 E ± 7.7km
DEPTH = 5.0km (geophysicist)
TURKEY (366)

GBZT	0.05	175	ePg	55 09.00	0.2
			iSg	55 10.00	
HRT	0.17	96	iPg	55 10.90	-0.1
			eSg	55 13.40	
YLV	0.28	191	iPg	55 12.80	-0.2
			iSg	55 15.80	
CTT	0.82	292	iPg	55 23.80	0.0

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

MAR 15, 1991 14h 08m 56.93± 0.70s
43.445 N ± 4.6km 5.438 E ± 5.3km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
MD 2.7 (STR).

GELF	0.06	187	Pg	08 58.77	-0.5
TREF	0.18	348	Pg	09 00.95	-0.1
PUYF	0.21	65	Pg	09 00.95	-0.6
BERF	0.23	126	Pg	09 01.78	-0.1
CDR	0.33	46	ePg	09 02.80	-1.0
			i(Sg)	09 07.10	
PRAF	0.41	332	Pg	09 05.84	0.5
VILF	0.45	26	Pg	09 05.38	-0.8
TAVF	0.48	69	Pg	09 06.14	-0.6
CALN	1.10	73	Pg	09 18.54	0.9
MVIF	1.32	69	Pn	09 22.24	0.8
			Sg	09 39.92	
TOUF	1.43	66	Pn	09 23.78	0.7
REVF	1.43	77	Pn	09 23.74	0.7
AURF	1.44	71	Pn	09 23.41	0.3
			Sg	09 43.41	
AUTN	1.54	68	Pn	09 25.15	0.4
			Sg	09 47.81	
PGF	2.76	108	Pn	09 41.29	-0.9

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

& MAR 15, 1991 14h 16m 22.13s
59.891 N 153.466 W
DEPTH = 135.6km
SOUTHERN ALASKA (2)
<AEIC>.

PDB	0.38	255	iPc	16 40.44	0.5
			eS	16 54.89	
AUH	0.53	179	ePc	16 41.64	-0.7
AUE	0.54	175	iPc	16 41.51	-0.7
			eS	16 56.45	
AUI	0.56	178	ePc	16 41.50	-0.9
			eS	16 56.47	
RED	0.63	33	iPc	16 42.19	-0.8
			eS	16 57.47	
RSO	0.67	32	ePc	16 42.68	-0.7
			eS	16 58.38	
REF	0.71	32	ePc	16 42.81	-0.9
			eS	16 58.72	
RDN	0.72	29	iPc	16 43.05	-0.6
			eS	16 58.80	
NCT	0.72	21	ePd	16 42.77	-0.9
			eS	16 58.44	
MCNL	0.84	212	iPd	16 43.41	-1.0
			eS	16 59.69	
RDT	0.87	37	iPc	16 43.82	-0.9
HOM	0.95	103	iPc	16 44.65	-0.7
			eS	17 02.26	
CDD	0.97	185	ePd	16 44.50	-1.1
			iS	17 01.86	
XLV	0.99	116	eP	16 44.92	-0.8
NNL	1.10	81	iPc	16 46.72	-0.1
CNPM	1.19	107	iPc	16 46.49	-1.2
BRLK	1.31	94	iPc	16 47.79	-1.1
			eS	17 06.80	
SYI	1.40	156	iPc	16 48.42	-1.4
			eS	17 08.54	
NKA	1.40	51	ePc	16 50.65	0.8
CKL	1.42	23	iPd	16 49.58	-0.7
SPU	1.47	28	iPd	16 49.78	-0.9
BGL	1.48	21	iPd	16 50.30	-0.5
CRP	1.52	25	iPd	16 50.83	-0.6
			eS	17 13.12	
SVW	1.62	320	iPd	16 51.20	-1.2
NCG	1.65	22	ePd	16 52.12	-0.7
SLKM	1.73	68	eP	16 52.03	-1.7
SEW	2.03	82	eP	16 55.67	-1.5
SUA	2.07	39	ePd	16 56.68	-1.1
			eS	17 22.98	
SKT	2.30	23	iPd	16 59.35	-1.2
			eS	17 28.73	
PMS	2.36	53	iPc	16 59.60	-1.7
PWA	2.49	43	eP	17 01.10	-1.8
PLRM	2.73	49	eP	17 03.89	-2.1
			S	17 36.09	
PMR	2.73	49	eP	17 04.30	-1.7
LTI	2.83	85	eP	17 06.00	-1.3
KNK	2.90	56	eP	17 05.71	-2.6
KNIM	2.90	78	eP	17 05.59	-2.7
GHO	2.92	48	ePd	17 05.75	-2.8
MTU	2.93	86	iPc	17 07.08	-1.5
CUT	2.96	30	eP	17 07.27	-1.7
TTA	3.29	339	iPd	17 11.50	-1.9
GLI	3.32	70	eP	17 11.13	-2.5
HUR	3.60	29	eP	17 15.85	-1.6
VZW	3.62	68	eP	17 15.49	-2.2
VLZ	3.74	67	eP	17 16.16	-3.1
KLU	4.04	63	ePc	17 20.56	-2.9
RND	4.16	30	ePd	17 22.37	-2.6
TOA	4.19	55	eP	17 23.30	-2.1
MCK	4.41	27	eP	17 26.55	-1.8
TZL	4.47	58	eP	17 27.95	-1.2
SDG	4.65	52	eP	17 29.46	-2.1
BWN	4.69	22	eP	17 30.23	-1.8
PAX	4.93	48	eP	17 32.96	-2.4
GLB	5.00	68	eP	17 33.81	-2.4
NEA	5.13	22	eP	17 35.28	-2.7
WRH	5.24	26	ePc	17 36.63	-2.8
DDM	5.31	39	eP	17 39.90	-0.6
CCB	5.45	27	eP	17 39.32	-3.0
HDA	5.46	31	eP	17 39.41	-3.0
RDS	5.54	24	eP	17 40.58	-2.9
FBA	5.68	25	iPc	17 42.50	-2.8
IMA	6.20	359	ePd	17 50.70	-2.0

61 obs. associoted

MAR 15, 1991 14h 36m 11.72± 0.79s
39.189 N ± 6.6km 20.558 E ± 7.7km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
MD 2.7 (THE).

KEK	0.79	312	eP	36 26.00	-1.0
VLS	1.01	179	eP	36 31.50	0.6
			eS	36 47.50	
AGG	1.39	96	ePd	36 36.50	-0.6
KZN	1.46	40	eP	36 39.00	0.9
			eS	37 01.00	
FNA	1.71	21	eP	36 42.00	0.2
LIT	1.75	58	ePd	36 42.00	-0.3
			eS	37 06.00	
OHR	1.93	5	ePn	36 46.00	1.1
GRG	2.26	38	ePc	36 49.76	0.0
PAIG	2.52	72	ePd	36 52.56	-0.8
			eS	37 23.68	

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

& MAR 15, 1991 14h 37m 42.40s
40.488 N 124.325 W
DEPTH = 25.0km
NEAR COAST OF NORTHERN CALIF. (35)
<BRK>. ML 3.3 (BRK). Felt (III)
at Rio Dell.

FHC	0.41	39	iPd	37 50.40	-0.7
			iS	37 56.60	
WDC	1.36	86	iPc	38 04.00	-1.9
			eS	38 20.30	
LTCM	1.71	99	eP	38 08.90	-2.0

LBFM	2.03	64	eP	38	14.30	-1.6
MIN	2.08	93	iPc	38	14.00	-2.5
ORV	2.36	112	iPd	38	17.70	-2.6
			eS	38	44.50	
BRK	3.06	148	e(P)	38	25.70	-4.6
PCC	3.35	152	e(P)	38	31.20	-3.1
MHC	3.77	145	e(P)	38	41.70	1.2
ARN	3.82	144	eP	38	39.00	-2.0
GCC	3.90	151	e(P)	38	41.10	-1.1
SAO	4.35	148	eP	38	48.20	-0.3
PRS	4.75	150	ePc	38	52.60	-1.7

13 obs. associated

MAR 15, 1991 15h 06m 31.51± 0.84s
23.149 N ± 9.4km 119.872 E ± 6.2km
DEPTH = 10.0km (geophysicist)
TAIWAN REGION (243)

TWK	0.58	78	iPd	06	42.20	-1.1
			eS	06	48.20	
TWM1	0.60	122	ePc	06	45.10	1.4
			eS	06	52.30	
TWG	1.15	106	iPc	06	53.20	0.1
			eS	07	07.40	
TWF1	1.33	81	iPd	06	55.00	-1.0
			eS	07	10.70	
TWO	1.43	38	ePc	06	57.40	-0.1
			eS	07	15.40	
TWD	1.83	59	ePd	07	03.40	0.1
QZH	2.14	327	ePn	07	08.70	1.1
			Pg	07	15.90	
			Sn	07	41.50	
ANP	2.53	36	eP	07	16.20	2.9X
GZH	6.01	271	eP	08	01.60	-1.0
			S	09	11.00	
SSE	8.00	8	eP	08	31.50	0.9
			pP	08	36.00	
WHN	8.86	327	eP	08	42.00	-0.5
NJ2	8.91	354	Pc	08	46.80	3.6X
			S	10	20.40	
GYA	12.44	288	P	09	38.20	6.5X
			S	11	58.20	

S.D. = 1.0 on 10 of 13 obs.

% MAR 15, 1991 15h 16m 17.92± 0.85s
41.147 N ±10.6km 28.442 E ± 7.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

CTT	0.01	270	iPg	16	19.70	-0.1
DMK	0.85	323	iPg	16	35.50	1.2
			iSg	16	47.50	
YLV	0.91	129	ePn	16	36.70	1.3
HRT	0.98	109	iPn	16	37.30	0.7
KGT	1.11	232	ePn	16	40.00	1.3

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

? MAR 15, 1991 15h 30m 19.39± 2.52s
7.018 S ±20.3km 129.398 E ±21.2km
DEPTH = 201.6 ± 24.4 km
4.9mb (5 obs.)
BANDA SEA (280)

MTN	6.04	164	eP	31	47.60	-0.3
	0.3s		144.00nm		5.7mb	
			eS	32	51.00	
KUPT	6.52	241	eP	31	54.50	0.4
			eS	32	51.50	
WB2	13.72	160	iPc	33	26.50	-0.5
	0.2s		20.60nm		5.2mb	
			eS	35	48.70	
QIS	16.70	145	eP	34	10.00	6.5X
	0.6s		16.00nm		4.6mb	
ASPA	17.11	166	eP	34	10.10	1.8
	0.5s		27.00nm		4.9mb	
			eS	37	08.30	
WARB	19.24	188	iPc	34	29.40	-1.2
	0.4s		4.00nm		4.3mb	
GUN	54.52	312	P	39	29.40	0.2
PKI	54.68	311	P	39	30.20	-0.2
KKN	54.90	311	P	39	31.80	0.0
DMN	54.93	311	P	39	32.00	-0.1

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

% MAR 15, 1991 15h 56m 07.65± 1.99s
44.455 N ± 9.9km 6.779 E ±14.6km
DEPTH = 10.0km (geophysicist)

FRANCE (538)
ML 1.9 (GEN).

FOUF	0.07	2	iPgc	56	10.21	0.2
			e(Sg)	56	11.35	
PZZ	0.24	78	P	56	13.31	0.5
			S	56	17.72	
STV	0.44	118	P	56	16.69	0.0
			S	56	22.64	
RRL	0.47	0	P	56	17.10	-0.1
			S	56	23.66	
ENR	0.51	116	P	56	17.92	-0.2
			S	56	25.92	
BHB	0.52	42	P	56	17.82	-0.3
			S	56	25.20	
ROB	0.80	101	P	56	23.15	-0.1
			S	56	34.12	

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

? MAR 15, 1991 16h 40m 22.50± 0.93s
43.443 N ± 7.3km 12.984 E ± 8.1km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ARV	0.06	331	P	40	24.80	0.0
			eSg	40	27.10	
CIO	0.27	155	iPg	40	28.31	0.0
			iSg	40	33.36	
ASS	0.44	212	P	40	31.50	0.0
			eSg	40	38.60	
AOI	0.46	76	e(Pg)	40	31.91	0.0
			iSg	40	40.35	

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

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* MAR 15, 1991 16h 51m 14.42± 1.43s
41.257 N ±10.1km 20.919 E ±11.4km
DEPTH = 10.0km (geophysicist)
ALBANIA (391)
MD 2.3 (THE). ML 2.1 (SKO).

OHR	0.17	212	iPgc	51	18.50	0.1
			iSg	51	22.00	
FNA	0.59	144	eP	51	24.50	-1.8
SKO	0.81	28	ePg	51	29.50	-0.7
			iSg	51	39.40	
GRG	1.16	105	ePc	51	35.48	-0.6
			eS	51	51.32	
VAY	1.25	87	ePn	51	37.00	-0.6
KNT	1.50	93	iPc	51	41.48	0.1
LIT	1.66	134	ePd	51	45.04	1.3
SRS	2.02	93	ePd	51	51.04	2.1

S.D. = 1.5 on 8 of 8 obs.

MAR 15, 1991 18h 51m 00.28± 0.15s
29.132 S ± 3.4km 68.684 W ± 4.1km
DEPTH = 113.8km (18 depth phases)
5.5mb (47 obs.)
SAN JUAN PROVINCE, ARGENTINA (137)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 35C
Centroid Location:
Origin Time 18:51: 8.3 0.5
Lat 28.86S 0.06 Lon 68.61W 0.07
Dep 124.5 3.6 Half-duration 1.5
Moment Tensor; Scale 10**16 Nm
Mrr=-5.79 0.41 Mtt= 0.92 0.77
Mff= 4.87 0.73 Mrt=-4.12 0.42
Mrf= 4.28 0.40 Mtf=-3.05 0.60
Principal Axes:
T Val= 8.82 Plg=22 Azm=238
N -0.49 9 144
P -8.33 66 32
Best Double Couple:Mo=8.6*10**16
NP1:Strike=345 Dip=25 Slip= -68
NP2: 140 67 -100

ZON	2.41	180	iPc	51	40.00	0.7
MDZ	3.74	182	iP	51	56.70	-0.5
			iS	52	29.80	
JACH	3.90	204	iPd	51	59.50	0.1
TCA	4.17	123	iPc	52	02.60	-0.4
ROCH	4.32	207	iPc	52	03.00	-2.2
PEL	4.35	203	iPc	52	04.20	-1.3
			iS	52	54.50	
SAN	4.63	201	iPc	52	07.80	-1.4
			i	52	26.00	
			iS	52	58.00	
IHA	4.64	212	eP	52	04.20	-5.1X
			iS	53	06.00	
PCH	4.74	199	iPc	52	09.60	-1.2
LCCH	4.98	209	iP	52	10.70	-3.4X
			i	52	16.00	
			iS	53	15.70	
SLA	5.23	34	e(P)	52	00.50	-17.1X
LNV	5.34	205	iPc	52	15.00	-3.9X
ANT	5.62	344	eP	52	19.50	-3.3X
			i	52	23.80	
			iS	53	31.70	
CNCB	12.28	3	P	53	47.00	-6.0X
LPB	12.55	3	P	53	52.00	-4.4X
Z	16s		3.03um			
			S	56	20.00	
			LR	58	23.00	
ZOBO	12.81	2	iPc	53	56.00	-3.9X
	1.0s		90.00nm		5.3mb	
Z	20s		1.20um		4.1Msz	
			S	56	24.00	
			LR	59	08.00	
ARE	12.87	348	eP	54	00.00	-0.4
SIV	14.84	30	Pc	54	20.20	-5.3X
PPD	17.18	70	eP	54	54.00	-0.7
			e	55	15.90	
VAO	20.43	78	iPc	55	29.50	-1.0
			e	55	48.70	96kmX
			e	59	08.00	
BMA	22.95	79	eP	55	55.40	0.0
			e	55	56.30	
			e	56	03.80	
			epP	56	19.80	117km
			e	56	33.00	
BAO	23.33	59	ePd	55	58.00	-1.2
JFO	24.03	78	eP	56	05.60	-0.3
			e	56	36.10	151kmX
PDCR	32.06	65	eP	57	17.50	-0.8
SOB1	32.74	58	eP	57	23.50	-0.8
UPA	39.31	343	ePd	58	20.20	0.5
BIM	44.01	11	eP	58	56.10	-2.1
MVM	44.08	11	eP	58	56.70	-2.0
FDF	44.21	10	eP	58	57.80	-2.0
CRM	44.27	11	eP	58	58.10	-2.1
SPA	61.03	180	iPc	01	05.50	1.6
	1.0s		29.00nm		5.2mb	
TKL	65.99	347	P	01	34.60	-1.8
GBTN	66.09	346	P	01	35.00	-2.6
RSCP	66.32	345	P	01	37.10	-1.4
PWLA	66.34	343	P	01	36.40	-2.2
BLA	66.91	350	P	01	41.30	-0.9
	0.7s		13.89nm		5.0mb	
NAV	67.07	350	P	01	42.00	-1.2
UYO	67.51	337	iPc	01	45.00	-1.0
OLY	67.78	340	P	01	45.80	-1.9
ELC	68.82	343	P	01	52.70	-1.4
FVM	69.80	342	P	01	58.80	-1.2
LVNJ	69.81	355	P	01	59.60	-0.4
LIC	70.50	71	Pd	02	04.88	0.1
	0.8s		66.50nm		5.5mb	
TIC	70.74	71	Pd	02	06.22	-0.1
	1.0s		81.50nm		5.5mb	
KIC	70.81	71	Pd	02	06.96	0.3
	0.8s		114.50nm		5.8mb	
CLE	71.26	350	iP	02	07.80	-1.0
WVLY	71.83	352	P	02	11.80	-0.4
LKO	71.90	68	Pd	02	13.32	0.1
	0.8s		238.00nm		6.0mb	
ALQ	73.02	328	iPd	02	20.00	0.4
	0.9s		33.61nm		5.1mb	
			e	02	49.00	115km
ANMO	73.03	328	P	02	20.20	0.6
			pP	02	49.90	118km
BNH	73.40	358	P	02	21.20	-0.1
MIM	74.02	360	P	02	24.50	-0.3
KUK	74.36	74	eP	02	28.00	0.4
GAC	74.73	355	ePd	02	28.50	-0.4
	1.0s		51.00nm		5.3mb	
GLA	75.75	321	eP	02	36.00	0.9
			e	03	07.00	123km
GLD	76.50	332	P	02	40.20	0.8
	1.3s		55.17nm		5.2mb	
GOL	76.52	332	P	02	39.50	-0.1
	1.2s		49.59nm		5.2mb	
			pP	03	08.90	115km
MAW	77.00	163	iPc	02	43.10	1.6
	1.0s		105.00nm		5.6mb	

15d 19h

PLM	77.10	320	eP	02	44.00	1.2
TPC	77.21	321	eP	02	44.00	0.7
PEC	77.66	320	P	02	46.00	0.3
RVR	77.86	320	eP	02	48.00	1.2
			e	03	16.00	109km
MWC	78.41	320	eP	02	50.00	0.0
PAS	78.42	320	eP	02	51.00	1.2
GSC	78.52	322	eP	02	51.00	0.5
			e	03	21.00	118km
MSU	78.60	327	P	02	51.90	0.9
			pP	03	20.60	112km
SBB	78.62	321	eP	02	51.00	0.0
FRS	79.28	118	iPd	02	53.50	-1.2
	1.2s	195.31nm			5.8mb	
CLC	79.33	321	eP	02	55.00	0.2
			e	03	24.00	113km
ABL	79.52	320	P	02	56.50	0.4
DAU	79.68	328	P	02	57.40	0.5
ISA	79.70	321	eP	02	58.00	1.2
			e	03	26.00	108km
SYP	79.72	319	eP	02	58.00	1.0
RSSD	79.75	335	P	02	57.10	0.0
	0.9s	50.53nm			5.3mb	
BCH	80.25	319	P	02	59.80	0.0
TNP	80.81	323	P	03	03.20	0.4
	0.9s	31.25nm			5.1mb	
PRI	81.27	320	ePd	03	06.10	1.0
FRI	81.35	321	eP	03	04.70	-0.6
LLA	81.76	320	eP	03	08.50	0.9
PRS	81.80	320	ePd	03	08.70	0.9
KVN	81.99	323	P	03	09.20	0.3
SAO	82.15	320	e(P)	03	10.00	0.4
CMB	82.47	321	iPd	03	11.50	0.2
			ePcP	03	20.80	
			epP	03	40.80	113km
ARN	82.62	320	P	03	12.60	0.6
GCC	82.65	320	eP	03	12.90	0.8
MHC	82.67	320	ePd	03	13.50	1.1
SLR	83.49	116	iPc	03	14.20	-2.8
	0.9s	84.03nm			5.6mb	
TIO	83.57	49	iPd	03	19.00	1.9
			i	03	48.00	112km
SCH	83.62	1	ePd	03	16.10	-0.5
	1.4s	157.00nm			5.7mb	
ORV	84.17	322	iPd	03	20.50	0.7
LRM	84.51	331	ePd	03	22.20	0.5
MIN	84.79	322	eP	03	22.30	-0.7
AVE	84.98	47	iP	03	25.50	1.6
WDC	85.46	322	ePd	03	25.20	-1.0
			ePcP	03	33.70	
LBFM	85.65	323	P	03	26.90	-0.5
			pP	03	56.80	115km
FHC	86.40	321	ePd	03	32.10	1.3
BUL	86.48	111	iPd	03	33.50	1.6
			i	04	02.10	109km
IFR	86.60	49	iPd	03	33.50	1.3
			i	04	03.00	113km
SES	87.61	334	ePd	03	36.40	-0.1
	1.2s	143.00nm			5.9mb	
			pP	04	06.00	113km
EVAL	88.12	45	e(P)	03	40.50	1.3
FFC	88.30	341	ePd	03	38.30	-1.3
	0.9s	27.00nm			5.3mb	
DPW	88.61	329	P	03	41.50	0.2
			pP	04	11.30	114km
KRI	88.94	109	iPc	03	40.20	-3.6X
BCAO	89.71	85	iPd	03	48.30	1.1
	0.7s	87.00nm			6.0mb	
			id	04	18.10	113km
BMW	89.96	326	P	03	48.10	0.4
PNT	90.31	329	ePd	03	49.00	-0.2
	0.9s	18.00nm			5.2mb	
EDM	90.73	335	ePd	03	49.50	-1.6
PGC	91.59	327	eP	03	55.00	0.0
FRB	92.56	0	eP	04	01.50	2.4
BTH	95.44	43	P	04	14.00	1.1
			sP	04	43.50	
EPF	95.72	43	eP	04	15.00	0.8
LFF	97.04	42	eP	04	20.50	0.5
	0.8s	14.80nm			5.5mb	
LPO	97.16	42	eP	04	21.20	0.6
	0.7s	6.60nm			5.3mb	
MFF	97.47	40	eP	04	22.40	0.4
	0.9s	19.65nm			5.6mb	
RJF	97.70	42	eP	04	23.30	0.3
	1.3s	25.25nm			5.6mb	
Z	20s	0.10um			4.3Msz	

LPF	97.80	39	eP	04	23.10	-0.3
	1.1s	26.85nm			5.7mb	
CAF	97.81	43	eP	04	24.10	0.5
	0.8s	9.40nm			5.4mb	
GRR	98.10	39	eP	04	24.40	-0.3
	1.1s	29.30nm			5.7mb	
LSF	98.23	41	eP	04	25.60	0.2
	1.3s	28.90nm			5.7mb	
FLN	98.52	38	eP	04	26.40	-0.2
	1.0s	14.00nm			5.5mb	
Z	22s	0.10um			4.3Msz	
LDF	98.62	39	eP	04	26.80	-0.3
	1.0s	18.00nm			5.6mb	
TCF	98.65	42	eP	04	27.20	-0.1
	1.1s	18.30nm			5.6mb	
LBL	98.68	43	P	04	28.29	0.9
MAF	98.82	42	eP	04	28.40	0.3
	1.0s	12.00nm			5.4mb	
PYM	98.82	42	P	04	28.51	0.3
AGO	99.06	42	P	04	29.17	0.0
BGF	99.16	42	eP	04	29.80	0.2
	1.1s	26.85nm			5.8mb	
PLDF	99.30	42	P	04	30.87	0.5
AVF	99.58	42	eP	04	31.70	0.2
	0.8s	5.35nm			5.2mb	
LRG	99.64	46	eP	04	32.90	1.0
	1.0s	20.00nm			5.7mb	
LMR	99.67	46	eP	04	32.80	0.8
	1.0s	12.00nm			5.5mb	
SMF	99.79	42	eP	04	32.90	0.4
	1.0s	29.00nm			5.8mb	
SSF	99.82	41	eP	04	32.60	0.0
	0.9s	12.30nm			5.5mb	
FRF	99.88	46	eP	04	33.80	0.8
LBF	100.05	42	ePdiff	04	33.70	-0.2
	1.1s	17.10nm			5.6mb	
LOR	100.13	41	ePdiff	04	34.10	-0.1
	1.0s	17.00nm			5.6mb	
Z	20s	0.08um			4.2Msz	
SBF	100.52	46	ePdiff	04	36.80	0.7
	1.2s	20.85nm			5.6mb	
LPL	100.92	44	ePdiff	04	39.10	1.1
	1.0s	11.00nm			5.4mb	
LPG	100.93	44	ePdiff	04	39.30	1.2
	1.0s	13.00nm			5.5mb	
HAU	101.95	42	ePdiff	04	42.20	-0.1
	1.0s	14.00nm			5.6mb	
Z	22s	0.10um			4.3Msz	
BSF	102.12	42	ePdiff	04	43.00	-0.1
	1.1s	14.65nm			5.6mb	
CDF	102.69	41	ePdiff	04	45.50	-0.1
	1.1s	14.65nm			5.7mb	
KBA	105.70	45	e(PKP)	09	13.00	1.3
	1.2s	5.70nm				
KHC	106.73	43	ePKP	09	25.80	12.4X
INK	108.14	339	ePdiff	05	09.00	-0.2
MBC	109.73	349	ePKP	09	18.00	-0.2
	0.7s	4.00nm				
NB2	110.39	31	PKP	09	19.80	-0.1
	0.5s	0.70nm				
HFS	111.18	32	ePKP	09	19.20	-2.2
	0.4s	0.70nm				
FBA	111.56	333	PKP	09	21.60	-0.4
IMA	114.27	334	PKP	09	27.20	-0.2
NUR	116.49	33	ePKP	09	31.00	-0.5
KAF	117.60	32	iPKP	09	32.90	-0.7
	0.5s	5.50nm				
SOD	118.55	26	iPKP	09	35.00	-0.2
ASPA	123.18	205	iPKPd	09	44.80	-0.7
	1.0s	23.10nm				
QIS	123.56	212	iPKPd	09	46.00	-0.3
ILT	124.17	335	iPKP	09	46.00	0.0
	0.8s	20.00nm				
			e	10	18.00	
			e	10	40.00	
			e	11	24.00	
WB2	126.38	207	iPKPc	09	51.40	-0.4
	0.5s	34.00nm				
			epP	10	21.70	
WRA	126.39	207	iPKPc	09	51.40	-0.4
	0.5s	34.00nm				
			epP	10	21.70	
QUE	141.61	77	ePKP	10	15.50	-4.8X
KOD	143.19	114	ePKP	10	21.30	-2.3
POO	144.28	99	iPKPc	10	22.50	-2.5
GBA	145.03	109	PKP	10	26.00	-0.2
GUA	145.23	251	ePKP	10	27.00	0.4

	1.0s	408.00nm				
PJG	145.29	251	ePKP	10	26.80	0.1
HYB	147.83	104	ePKPd	10	31.50	0.7
	1.0s	225.00nm				
			i	10	34.50	
MNI	149.60	208	ePKP	10	39.00	5.3X
KUSJ	149.86	307	ePKP	10	32.90	-0.3
NDI	150.20	82	iPKPc	10	36.00	1.8
ASAJ	150.96	310	ePKP	10	35.20	0.4
HOOJ	151.06	306	ePKP	10	35.60	0.6
KGM	151.98	163	ePKPd	10	44.70	7.5X
KLM	152.53	159	ePKP	10	45.00	7.0X
OFUJ	153.09	300	PKP	10	45.70	7.7X
IPM	153.70	156	ePKPd	10	48.00	8.3X
	0.9s	162.80nm				
			e	11	18.20	
MAT	156.28	295	ePKP	10	42.00	-0.5
	1.5s	19.44nm				
GKN	156.56	86	PKP	10	43.78	0.5
DMN	156.90	87	PKP	10	44.44	0.5
KKN	157.08	87	PKP	10	44.52	0.4
	1.0s	46.00nm				
PKI	157.16	88	PKP	10	44.40	0.1
	1.1s	27.00nm				
GUN	157.63	87	PKP	10	45.56	0.7
BDT	163.64	134	ePKP	10	53.00	2.1
CHG	164.74	130	ePKPd	10	53.10	1.1
	1.0s	14.50nm				
			e	11	49.20	
BJI	168.41	341	ePKP	10	55.00	0.9
	1.0s	11.00nm				
			e	12	03.00	
SSE	171.23	285	PKP	10	57.00	1.1
	1.0s	12.00nm				
KMI	171.38	116	ePKP	10	56.50	0.0
	S.D. = 1.0	on 168 of 185 obs.				

% MAR 15, 1991 20h 26m 59.82± 0.66s
43.107 N ± 7.4km 0.447 W ± 4.6km
DEPTH = 5.0km (geophysicist)
PYRENEES (378)
MD 1.0 (STR).

OGE	0.06	342	Pg	27	01.50	0.0
			Sg	27	02.61	
JAU	0.09	141	Pg	27	01.91	0.0
ESCF	0.10	253	Pg	27	02.07	0.1
			Sg	27	03.80	
BTH	0.18	85	Pg	27	03.50	0.0
			Sg	27	06.40	
ATE	0.19	264	Pg	27	03.78	0.1
			Sg	27	06.96	
MADF	0.28	278	Pg	27	05.30	-0.1
			Sg	27	10.28	
	S.D. = 0.1	on 6 of 6 obs.				

& MAR 15, 1991 20h 33m 14.72s
39.351 N 111.172 W
DEPTH = 8.5km
UTAH (47B)
<SLC-P>. ML 3.0 (SLC). Felt at the Utah Power and Light Huntington Mine.

DAU	1.06	357	eP	33	34.60	-0.5
MSU	1.14	223	eP	33	35.70	-0.8
DUG	1.52	304	eP	33	42.00	-0.3
PV09	1.80	118	iP	33	48.00	1.4
BW06	3.63	19	eP	34	13.60	1.0
GOL	4.50	84	eP	34	25.80	0.9
TNP	4.90	257	eP	34	30.00	-0.5
KVN	5.39	269	eP	34	39.30	1.8
ANMO	5.79	138	eP	34	41.80	-1.3
	9 abs. associated					

% MAR 15, 1991 20h 37m 03.64± 0.72s
40.628 N ± 6.8km 29.048 E ± 5.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YLV	0.26	104	iPg	37	08.50	-0.6
			iSg	37	12.50	
IZI	0.44	132	iPg	37	13.00	0.4
			iSg	37	19.00	
ISK	0.44	1	ePg	37	13.00	0.5
			eSg	37	19.00	
HRT	0.51	68	iPg	37	14.00	0.0

		eSg	37 22.00		
CTT	0.70	318 iPg	37 17.00	-0.4	
		iSg	37 26.50		
BNT	0.90	253 ePg	37 21.00	0.1	
S.D. = 0.6		on	6 of 6 obs.		

MAR 15, 1991 21h 01m 57.71± 0.56s
38.510 N ± 7.3km 11.696 E ± 6.8km
DEPTH = 10.0km (geophysicist)
SICILY (398)

ERC	0.85	124 P	02 14.20	0.1	
		eSg	02 25.10		
USI	1.18	80 P	02 19.60	-0.1	
		eSn	02 36.00		
PTS	1.72	172 P	02 27.80	0.0	
		eSn	02 48.60		
ATN	2.98	96 P	02 45.80	-0.1	
		eSn	03 17.50		
PGF	4.53	334 Pn	03 10.20	2.3X	
		Sn	04 02.20		
LMR	6.22	322 Pn	03 31.20	-0.5	
		Sn	04 38.40		
SBF	6.24	330 Pn	03 32.60	0.5	
		Sn	04 40.60		
FRF	6.33	324 Pn	03 32.80	-0.5	
		Sn	04 41.00		
LRG	6.38	322 Pn	03 34.10	0.1	
		Sn	04 43.00		
LPG	7.89	334 Pn	03 55.80	0.3	
S.D. = 0.4		on	9 of 10 obs.		

MAR 15, 1991 21h 52m 03.34± 0.28s
17.971 S ±11.1km 172.928 W ± 6.8km
DEPTH = 77.8km (2 depth phases)
5.4mb (20 obs.)
TONGA ISLANDS REGION (174)
Mo=4.0*10**17 Nm (PPT)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 19S, 40C
Centroid Location:
Origin Time 21:52: 0.8 1.4
Lat 17.08S 0.17 Lon 172.93W 0.08
Dep 123.3 4.2 Half-duration 2.0
Moment Tensor; Scale 10**17 Nm
Mrr= 0.30 0.10 Mtt= 0.25 0.19
Mff=-0.55 0.18 Mrt= 0.51 0.11
Mrf= 1.43 0.10 Mtf=-0.26 0.15
Principal Axes:
T Val= 1.42 Plg=53 Azm=292
N 0.33 2 200
P -1.75 37 108
Best Double Couple:Mo=1.6*10**17
NP1:Strike=186 Dip= 9 Slip= 77
NP2: 20 82 92

VUN	8.19	268 eP	54 02.30	0.6	
SVA	8.20	268 eP	54 02.30	0.5	
SGE	8.72	271 ePc	54 11.20	2.1X	
DZM	19.80	255 iPc	56 28.00	-2.3	
NOZ	22.03	199 P	56 55.80	3.2X	
WLZ	22.21	205 P	56 57.80	3.4X	
TVO	22.53	93 eP	56 58.00	0.2	
	0.8s	25.00nm		4.7mb	
WEL	25.52	202 P	57 32.00	5.8X	
KHZ	26.96	202 P	57 43.90	4.6X	
LTZ	27.75	204 P	57 44.30	-2.3	
BRS	32.91	247 iP	58 30.50	-1.9	
		e(S)	04 00.00		
COO	34.29	242 eP	58 43.00	-1.4	
		e	59 22.30	187kmX	
CNB	37.60	235 eP	59 11.00	-1.2	
CTA	38.58	260 iPd	59 18.70	-1.9	
	0.9s	38.66nm		5.3mb	
		iS	05 25.00		
CMS	39.57	242 eP	59 27.00	-1.7	
TOO	41.24	233 eP	59 42.00	-0.4	
QIS	44.76	259 eP	00 09.00	-2.2	
WB2	49.73	259 iPd	00 47.10	-2.9	
	0.6s	24.70nm		5.4mb	
WRA	49.74	259 iPd	00 47.10	-3.0	
	0.6s	24.70nm		5.4mb	
ASPA	49.79	254 iPc	00 48.60	-1.9	
	0.7s	100.80nm		6.0mb	
		iS	07 54 90		
WARB	56.18	250 eP	01 36.00	-1.7	
	0.5s	5.00nm		4.8mb	
NANU	66.70	253 eP	02 47.00	-1.5	
CGP	66.94	288 iPc	02 51.50	1.5	
MAT	71.19	320 eP	03 14.00	-1.9	
		eS	12 34.00		
PRS	72.72	41 e(P)	03 23.90	-1.1	
PRI	73.05	42 e(P)	03 26.80	-0.2	
SBB	74.04	45 eP	03 32.00	-0.7	
ISA	74.18	44 eP	03 33.00	-0.5	
FRI	74.18	42 ePc	03 32.30	-1.1	
CMB	74.40	41 ePc	03 33.80	-0.9	
		e	03 54.00	76km	
ORV	74.67	39 ePc	03 35.00	-1.2	
WDC	74.72	37 ePc	03 35.70	-0.8	
		e	03 57.00	80km	
CLC	74.85	44 eP	03 36.00	-1.4	
TPC	74.91	46 eP	03 37.00	-0.8	
GSC	75.08	45 eP	03 38.00	-0.7	
MIN	75.11	38 ePc	03 37.60	-1.3	
GLA	75.17	48 eP	03 39.00	-0.3	
LBFM	75.59	37 P	03 40.80	-0.9	
BONR	75.65	42 P	03 41.20	-1.1	
TNP	76.42	42 P	03 44.10	-2.3	
	1.0s	18.33nm		5.0mb	
KVN	76.44	41 P	03 45.00	-1.5	
RMW	79.62	32 P	04 02.80	-0.8	
SSE	79.86	307 Pc	04 02.00	-3.1X	
	5.0s	500.00nm		5.7mb X	
Z	20s	0.50um		4.9Msz	
MSU	79.94	44 P	04 05.80	0.0	
SVW	80.02	8 eP	04 02.60	-2.8	
MDJ	81.33	322 eP	04 12.00	-0.6	
Z	20s	0.56um		4.9Msz	
PMR	81.54	11 eP	04 11.20	-2.1	
Z	18s	1.20um		5.3Msz	
TTA	81.72	8 P	04 12.50	-1.8	
	1.2s	24.62nm		5.0mb	
PNT	81.94	32 eP	04 15.00	-0.7	
NJ2	82.07	307 Pd	04 18.50	1.8	
Z	20s	0.30um		4.7Msz	
ALQ	82.11	50 eP	04 16.00	-1.1	
	1.2s	18.36nm		4.9mb	
Z	20s	1.06um		5.2Msz	
ANMO	82.11	49 P	04 16.00	-1.1	
	1.1s	49.05nm		5.3mb	
NEW	82.57	34 P	04 17.80	-1.2	
TOA	82.58	12 P	04 16.50	-2.3	
DL2	83.29	314 Pc	04 23.00	0.2	
	4.0s	700.00nm		6.0mb X	
CN2	83.34	320 Pc	04 23.00	0.0	
	5.0s	700.00nm		5.9mb X	
Z	17s	1.20um		5.3MszX	
SNY	83.47	318 iPc	04 24.00	0.3	
	4.0s	830.00nm		6.1mb X	
Z	20s	0.61um		5.0Msz	
LRM	83.75	38 eP	04 25.00	-0.4	
BW06	83.88	41 P	04 25.00	-1.1	
FBA	84.83	10 eP	04 27.50	-2.5	
WHN	84.90	304 Pd	04 33.00	1.9	
IMA	85.03	8 eP	04 30.00	-1.2	
	1.7s	64.80nm		5.4mb	
GOL	85.11	46 P	04 32.20	-0.1	
	1.0s	10.00nm		4.8mb	
TIA	85.21	310 eP	04 33.80	1.3	
Z	20s	0.70um		5.0Msz	
ILT	85.73	358 iP	04 34.00	-0.4	
	2.0s	110.00nm		5.5mb	
N	18s	0.40um			
		iS	15 12.00		
		eLR	37 30.00		
SES	87.05	34 eP	04 41.00	-0.3	
	1.5s	128.00nm		5.8mb	
		pP	04 50.00	28kmX	
BJI	87.56	313 eP	04 45.00	1.1	
	3.0s	670.00nm		6.2mb	
Z	20s	0.36um		4.8Msz	
IPM	87.64	276 ePc	04 46.70	1.8	
MEO	87.86	52 iPc	04 45.70	0.1	
RSSD	88.04	42 P	04 46.00	-0.5	
SNG	88.84	278 eP	04 52.80	2.2X	
TIY	89.24	310 iPc	04 53.50	1.3	
Z	20s	0.80um		5.1Msz	
E	20s	0.70um			
		S	15 27.00		
GYA	89.64	298 P	04 56.60	2.3X	
		pP	05 26.00	112kmX	
		S	15 32.00		
XAN	90.49	306 Pc	04 59.00	1.0	
		S	15 35.00		
INK	90.64	14 eP	04 56.00	-1.9	
LOE	91.00	288 eP	05 03.00	2.5X	
HHC	91.10	313 P	05 02.00	1.3	
Z	24s	0.80um		5.1MszX	
		S	15 41.00		
BTO	92.09	312 P	05 06.00	0.8	
KMI	92.54	295 Pc	05 10.00	2.2X	
	2.5s	100.00nm		5.8mb	
Z	30s	0.60um		4.9MszX	
BDT	93.42	287 eP	05 15.00	3.4X	
CD2	93.53	301 eP	05 13.00	1.0	
Z	20s	0.60um		5.0Msz	
CHG	93.95	288 ePc	05 16.00	1.9	
	0.9s	11.13nm		5.3mb	
FFC	93.99	33 ePc	05 14.40	0.9	
	1.7s	71.00nm		5.8mb	
LZH	95.10	306 Pc	05 20.20	0.9	
	2.4s	84.00nm		5.8mb	
Z	40s	0.73um		4.8MszX	
LPB	98.45	110 (P)	05 35.00	-0.2	
Z	22s	1.11um		5.3Msz	
		LR	38 10.00		
CNCB	98.45	111 eP	05 38.00	2.6X	
ZOBO	98.52	110 P	05 38.00	2.3X	
		LR	38 00.00		
GTA	99.13	308 eP	05 38.20	0.8	
	1.2s	10.00nm		5.2mb	
Z	20s	0.90um		5.3Msz	
		pP	06 09.00	117kmX	
MBC	99.35	11 eP	05 36.00	-1.5	
QUE	124.54	295 ePKP	10 57.10	1.1	
NUR	135.68	348 ePKP	11 19.00	3.0X	
NB2	136.88	357 PKP	11 11.80	-6.6X	
	1.3s	7.70nm			
HFS	137.62	355 ePKP	11 21.70	2.0X	
	0.5s	0.80nm			
TAB	140.36	308 ePKP	11 27.00	1.4	
ARO	144.86	265 iPKP+	11 35.50	1.6	
NAI	145.04	240 iPKPd	11 38.00	3.5X	
WIT	145.23	0 ePKP	11 34.00	0.7	
WTS	146.05	0 ePKP	11 35.50	0.8	
	2.0s	445.00nm			
KVT	146.12	319 ePKP	11 30.00	-5.3X	
IAS	146.34	334 ePKP	11 35.00	-0.4	
KRA	146.36	345 ePKP	11 36.30	1.0	
	1.5s	18.20nm			
		e	11 38.90		
		e	11 46.80		
KSP	146.39	349 ePKPd	11 36.30	0.9	
	1.2s	188.00nm			
		ic	11 36.80		
CLL	146.40	353 iPKP	11 36.20	0.9	
		e	13 00.00		
BRG	146.72	352 iPKPc	11 37.20	1.3	
	1.6s	220.00nm			
		i	11 47.50		
BNS	147.08	360 ePKPc	11 38.50	2.1X	
	1.3s	136.00nm			
SPC	147.08	344 ePKP	11 37.10	0.3	
UCC	147.18	3 PKP	11 39.40	2.8X	
		e	11 50.00		
MOX	147.20	355 iPKPc	11 38.50	1.8	
	2.0s	265.00nm			
ENN	147.27	1 ePKP	11 38.00	1.3	
	2.0s	392.00nm			
SNF	147.46	3 PKP	11 40.10	3.1X	
PRU	147.50	351 PKP	11 40.00	2.9X	
	1.9s	125.90nm			
Z	18s	0.80um		5.5Msz	
N	18s	0.60um			
E	18s	0.30um			
		e	12 05.30		
CFR	147.66	332 ePKP	11 39.00	1.5	
VRI	147.75	334 ePKPd	11 40.00	2.3X	
TNS	147.81	358 ePKPc	11 40.70	3.0X	
DOU	147.89	3 PKPc	11 40.80	3.0X	
ABH	148.16	359 ePKP	11 40.32	2.1X	
GRF	148.18	355 ePKP	11 39.70	1.4	
Z	18s	0.50um		5.3Msz	
		ic	11 42.30		
		e	11 53.00		
PSZ	148.34	343 ePKP	11 41.80	3.1X	
MLR	148.38	334 ePKP	11 39.00	0.1	
ISR	148.41	333 ePKP	11 44.00	5.2X	
KHC	148.47	352 PKP	11 41.70	2.9X	

15d 22h

	1.4s	61.00nm			
FLN	148.68	10 ePKP	11	38.00	-1.1
	1.3s	101.10nm			
	Z 18s	0.65um		5.5Msz	
ZST	148.76	347 ePKP	11	40.60	1.4
SRO	148.85	345 ePKP	11	39.80	0.5
VKA	148.86	348 e(PKP)	11	41.00	1.6
	3.0s	448.00nm			
		i	11	44.50	
LDF	148.90	9 ePKP	11	38.60	-0.8
	1.4s	130.70nm			
CMP	148.93	335 ePKPc	11	49.00	9.4X
BUD	148.97	344 e(PKP)	11	42.00	2.4X
GRR	148.98	10 ePKP	11	39.10	-0.4
	1.3s	68.60nm			
GWF	149.07	359 PKP	11	41.78	2.1X
BUC	149.18	333 ePKP	11	43.00	3.1X
LPF	149.29	11 ePKP	11	39.90	-0.1
	1.5s	172.35nm			
KMR	149.44	351 ePKP	11	40.00	-0.3
		i	11	45.70	
		i	11	54.30	
WLS	149.64	360 PKP	11	41.16	0.5
CDF	149.64	360 PKP	11	41.42	0.7
VITF	149.82	1 PKP	11	41.72	1.0
ECH	149.83	360 PKP	11	41.60	0.7
BZS	149.89	339 ePKP	11	41.00	0.0
UZD	149.91	344 e(PKP)	11	47.00	6.0X
TIM	149.92	340 iPKPd	11	46.50	5.5X
BHL	149.93	307 PKP	11	46.00	4.4X
HAU	150.04	1 ePKP	11	42.10	0.9
	1.4s	113.25nm			
	Z 19s	0.75um		5.5Msz	
FEL	150.16	359 PKP	11	42.40	0.9
MOF	150.20	360 PKP	11	42.35	0.8
BSF	150.22	0 ePKP	11	42.50	0.9
	1.4s	56.65nm			
KBA	150.52	351 e(PKP)	11	41.00	-1.2
	1.3s	50.00nm			
		i	11	49.10	
		i	11	57.60	
		e	15	20.00	
ADI	150.60	306 ePKP	11	42.50	0.0
LOR	150.66	4 ePKP	11	43.60	1.4
	1.4s	108.90nm			
	Z 18s	0.85um		5.6Msz	
LOMF	150.70	0 PKP	11	43.16	0.9
MFF	150.83	10 ePKP	11	43.90	1.5
	1.5s	109.70nm			
SSF	150.84	5 ePKP	11	44.20	1.8
	1.3s	133.60nm			
JVI	150.94	304 ePKP	11	45.00	1.9
LBF	150.95	4 ePKP	11	44.20	1.6
	1.4s	98.00nm			
BEO	150.98	340 ePKP	11	45.00	2.4X
FVI	151.07	352 PKP	11	44.00	1.3
AVF	151.10	5 ePKP	11	43.90	1.1
	1.3s	55.95nm			
BGF	151.28	6 ePKP	11	44.50	1.4
	1.3s	81.25nm			
SMF	151.28	5 ePKP	11	44.80	1.7
	1.5s	67.90nm			
LJU	151.33	349 ePKP	11	43.00	-0.2
LSF	151.43	8 ePKP	11	44.80	1.5
	1.2s	47.60nm			
VOY	151.45	350 ePKP	11	43.20	-0.3
DST	151.48	324 ePKP	11	49.00	5.3X
TCF	151.48	7 ePKP	11	44.80	1.4
	1.4s	63.15nm			
MAF	151.58	7 ePKP	11	45.60	2.0X
	1.3s	72.20nm			
CEY	151.64	349 ePKP	11	44.50	0.8
VBY	151.71	348 ePKPd	11	47.40	3.7X
CTI	151.75	353 PKP	11	36.80	-7.1X
PRNI	151.78	301 ePKP	11	47.00	2.6X
TRI	151.79	350 ePKPd	11	45.00	1.2
PLDF	151.93	5 PKP	11	45.50	1.3
PYM	152.09	6 PKP	11	45.80	1.4
VAI	152.15	357 PKP	11	45.00	0.7
LPL	152.53	1 ePKP	11	47.20	2.0X
	1.4s	15.20nm			
LPG	152.55	0 ePKP	11	47.50	2.1X
GRN	152.79	2 PKP	11	46.78	1.4
BNI	153.00	1 PKP	11	48.90	3.1X
SKO	153.11	336 ePKP	11	46.00	0.1
VAY	153.20	333 ePKP	11	42.60	-3.4X
BOB	153.21	356 PKP	12	05.50	19.5X
SFI	153.82	352 PKP	11	49.40	2.7X
FIR	154.03	353 ePKP	11	57.00	10.0X
IFR	161.04	33 iPKPd	11	59.00	3.0X
TIO	161.68	43 iPKPd	11	58.50	1.8
BCAO	162.48	221 iPKPd	11	59.10	1.3
	1.0s	25.00nm			
		ic	12	48.50	

S.D. = 1.3 on 134 of 184 obs.

% MAR 15, 1991 22h 33m 57.71± 0.57s
44.309 N ± 6.4km 7.591 E ± 4.4km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.8 (GEN).

ENR	0.15	236	P	34 01.14	-0.1
			S	34 03.22	
ROB	0.20	94	P	34 02.48	0.3
			S	34 05.47	
STV	0.20	251	P	34 02.19	0.0
			S	34 05.02	
PZZ	0.40	299	P	34 06.19	0.2
			S	34 11.80	
IMI	0.45	152	P	34 06.96	0.0
			S	34 12.68	
FIN	0.45	102	P	34 06.72	-0.3
			S	34 12.62	
BHB	0.58	336	P	34 09.31	-0.2
			S	34 17.54	

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

? MAR 15, 1991 23h 59m 02.73± 3.95s
6.128 S ±23.1km 130.459 E ±33.8km
DEPTH = 100.0 ± 42.5 km
5.1mb (5 obs.)
BANDA SEA (280)

MTN	6.71	174	eP	00 41.00	0.6
	0.3s	276.00nm		6.2mb	X
WB2	14.25	165	eP	02 18.90	-2.2
	0.2s	28.10nm		5.1mb	
			eS	04 45.90	
QIS	16.87	149	eP	02 55.00	0.9
			eS	05 49.00	
ASPA	17.75	170	eP	03 05.40	0.4
	0.6s	33.20nm		4.7mb	
			iS	06 11.60	
WARB	20.27	190	eP	03 33.00	0.4
	0.3s	2.00nm		3.9mb	X
GUN	54.73	310	P	08 25.00	0.3
	0.5s	27.00nm		5.5mb	
PKI	54.91	310	P	08 25.60	-0.4
	0.6s	10.00nm		5.0mb	
KKN	55.12	310	P	08 27.36	0.0
	0.6s	13.00nm		5.1mb	
DMN	55.16	310	P	08 27.48	-0.2
GKN	55.72	310	P	08 31.80	0.2
	0.3s	10.00nm		5.4mb	X

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

% MAR 16, 1991 00h 07m 59.01± 0.77s
40.887 N ± 5.8km 27.837 E ± 7.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

CTT	0.52	60	ePg	08 09.80	0.3
			iSg	08 16.80	
BNT	0.53	173	iPg	08 09.00	-0.8
KGT	0.60	223	ePg	08 11.30	0.3
			eSg	08 21.80	
DMK	0.94	356	iPn	08 16.60	-0.3
ISK	0.94	79	ePn	08 16.80	-0.2
IZI	1.36	113	iPn	08 23.80	-0.3
DST	1.42	154	ePn	08 25.80	1.0

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

& MAR 16, 1991 00h 08m 56.14s
60.181 N 152.301 W
DEPTH = 76.3km
SOUTHERN ALASKA (2)
<AEIC>.

RED	0.33	316	ePd	09 07.84	-0.7
			eS	09 17.20	
RSO	0.36	322	iPd	09 08.27	-0.6
			iS	09 17.98	
RS2	0.36	321	iPd	09 08.32	-0.5
REF	0.37	327	iPd	09 08.31	-0.6
			eS	09 17.88	
RDT	0.40	352	iPd	09 08.17	-0.8
			eS	09 17.96	
RDN	0.41	326	iPd	09 08.50	-0.6
			iS	09 18.19	
NCT	0.49	321	ePd	09 09.00	-0.8
			S	09 19.15	
NNL	0.52	105	iPc	09 10.07	0.2
HOM	0.62	147	iPc	09 10.43	-0.4
			eS	09 21.53	
NKA	0.77	43	iPc	09 13.75	1.3
BRLK	0.83	120	ePc	09 12.20	-1.0
			eS	09 24.71	
CNPM	0.85	140	iPc	09 12.64	-0.8
			iS	09 25.79	
SPU	1.01	7	iPd	09 14.92	-0.5
			S	09 29.96	
AUI	1.02	214	eP	09 15.47	0.0
			S	09 29.59	
PDB	1.03	248	iPc	09 14.48	-1.1
			eS	09 28.88	
SLKM	1.09	72	eP	09 15.46	-0.9
BGL	1.09	358	iPd	09 16.01	-0.4
CRP	1.09	4	ePd	09 16.20	-0.4
NCG	1.23	3	iPd	09 17.85	-0.4
CDD	1.43	209	ePc	09 19.78	-1.0
SEW	1.43	92	eP	09 20.17	-0.6
SUA	1.50	30	ePd	09 21.44	-0.4
PMS	1.72	50	ePd	09 24.44	-0.3
SKT	1.84	11	ePd	09 25.46	-0.9
			eS	09 49.03	
PWA	1.89	38	eP	09 26.36	-0.6
KNK	2.25	55	eP	09 30.43	-1.6
KNIM	2.28	84	ePc	09 29.33	-3.0
GHO	2.29	44	eP	09 31.83	-0.8
MTU	2.34	93	eP	09 30.56	-2.6
CUT	2.44	23	eP	09 33.86	-0.6
KLU	3.39	64	ePc	09 45.20	-2.6

31 obs. associated

% MAR 16, 1991 00h 28m 57.74± 0.37s
40.716 N ± 3.7km 29.071 E ± 3.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YLV	0.27	123	iPg	29 03.30	-0.2
			iSg	29 07.30	
GBZT	0.29	75	iPgd	29 04.20	0.3
			iSg	29 08.80	
ISK	0.35	358	iPg	29 05.30	0.4
			iSg	29 10.30	
HRT	0.47	77	iPg	29 06.80	-0.4
			iSg	29 13.80	
IZI	0.49	141	iPg	29 07.70	0.1
			iSg	29 14.30	
CTT	0.65	312	iPg	29 10.30	-0.4
			iSg	29 19.30	
KCT	0.72	230	iPg	29 11.80	-0.1
			iSg	29 21.80	
BNT	0.95	248	iPg	29 15.80	0.0
DST	1.16	197	ePn	29 19.80	0.3
KGT	1.37	259	ePn	29 22.80	-0.1
DMK	1.48	319	iPn	29 24.60	0.1
EZN	2.28	248	ePn	29 36.00	0.0

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

% MAR 16, 1991 00h 44m 24.57± 0.56s
40.810 N ± 3.9km 27.928 E ± 4.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

BNT	0.45	181	iPg	44 33.80	0.0
			iSg	44 40.80	
EDC	0.47	186	iPg	44 33.50	-0.5
			eSg	44 39.50	
CTT	0.51	48	ePg	44 35.00	0.1
			eSg	44 41.80	
KGT	0.60	233	iPg	44 37.00	0.4
KCT	0.65	150	ePg	44 37.30	-0.3
			eSg	44 46.80	
ISK	0.89	73	iPg	44 41.80	0.1
			eSg	44 54.80	
DMK	1.02	353	iPg	44 43.60	-0.2
			iSg	44 57.10	
YLV	1.13	102	iPn	44 45.30	-0.4
IZI	1.27	111	ePn	44 48.80	0.6

DST 1.32 156 ePn 44 49.30 0.4
HRT 1.32 89 ePn 44 48.80 -0.2
S.D. = 0.4 on 11 of 11 obs.

% MAR 16, 1991 00h 55m 16.22± 0.52s
40.829 N ± 4.1km 27.967 E ± 4.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

CTT 0.47 48 iPg 55 25.80 0.0
BNT 0.47 184 iPg 55 25.80 -0.1
EDC 0.49 189 iPg 55 26.50 0.4
iSg 55 32.50
KGT 0.63 233 iPg 55 27.80 -1.1
eSg 55 37.30
KCT 0.65 153 iPg 55 28.80 -0.4
iSg 55 36.80
ISK 0.86 74 iPg 55 33.30 0.5
eSg 55 45.20
DMK 1.00 351 iPg 55 35.10 -0.1
iSg 55 48.60
YLV 1.10 103 iPg 55 36.30 -0.6
GBZT 1.12 92 ePn 55 37.50 0.3
iSg 55 54.60
IZI 1.25 113 ePn 55 39.80 0.3
HRT 1.29 90 iPn 55 39.80 -0.4
DST 1.32 157 iPn 55 40.80 0.1
EZN 1.61 232 iPn 55 45.80 1.1
S.D. = 0.6 on 13 of 13 obs.

? MAR 16, 1991 01h 09m 02.36± 9.12s
38.349 N ±73.1km 26.803 E ±39.4km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

IZM 0.36 82 iPg 09 09.50 -0.4
eSg 09 16.40
EZN 1.52 346 ePn 09 29.80 0.2
DST 1.90 48 ePn 09 36.00 0.9
KGT 2.14 10 ePn 09 37.70 -0.8
S.D. = 1.3 on 4 of 4 obs.

% MAR 16, 1991 01h 26m 55.13± 0.38s
40.705 N ± 3.8km 29.054 E ± 3.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YLV 0.28 120 iPg 27 00.80 -0.2
eSg 27 04.80
GBZT 0.31 74 iPgd 27 01.70 0.1
iSg 27 06.40
ISK 0.36 1 iPg 27 02.30 -0.2
iSg 27 07.30
HRT 0.48 76 iPg 27 04.80 -0.1
eSg 27 11.80
IZI 0.49 139 iPg 27 05.10 0.1
iSg 27 11.90
CTT 0.65 313 iPg 27 07.70 -0.4
iSg 27 16.70
KCT 0.70 230 ePg 27 08.70 -0.3
eSg 27 19.20
BNT 0.93 248 iPg 27 12.70 -0.2
EDC 0.98 249 iPg 27 13.50 -0.2
iSg 27 27.50
DST 1.15 197 ePn 27 17.00 0.4
KGT 1.36 260 ePn 27 20.20 0.2
DMK 1.48 319 ePn 27 22.70 0.9
S.D. = 0.4 on 12 of 12 obs.

MAR 16, 1991 02h 00m 51.62± 0.44s
49.133 N ± 3.8km 6.879 E ± 5.8km
DEPTH = 10.0km (geophysicist)
GERMANY (543)
MD 2.6 (STR), 2.5 (UCC).

GWF 0.51 107 Pg 01 02.02 0.0
WLF 0.71 319 iP 01 04.49 -1.1
iS 01 14.96
CDF 0.77 160 Pg 01 06.48 -0.2
Sg 01 17.58
WLS 0.79 156 Pg 01 06.85 -0.1
ECH 0.94 169 Pg 01 10.34 0.8
Sg 01 23.94
VITF 1.09 213 Pg 01 11.72 -0.4
Sg 01 27.43
MOF 1.29 172 Pn 01 15.52 -0.1
BSF 1.30 183 Pg 01 16.50 0.7
Sg 01 35.26
FEL 1.47 149 Pn 01 17.84 -0.4
TNS 1.49 42 ePn 01 18.10 -0.4
eSn 01 39.50
MEM 1.58 339 iP 01 19.30 -0.4
S 01 39.00
ENN 1.75 340 ePn 01 24.00 1.9
0.7s 15.00nm
eSn 01 47.50
DOU 1.77 304 iP 01 22.70 0.2
iS 01 44.30
LOMF 1.78 181 Pn 01 22.40 -0.4
GRF 2.89 77 ePg 01 48.10 9.6X
eSg 02 23.40
S.D. = 0.8 on 14 of 15 obs.

MAR 16, 1991 02h 09m 59.32± 1.07s
1.993 N ± 3.1km 127.351 E ± 6.8km
DEPTH = 94.3 ± 10.9 km
5.2mb (24 obs.)
HALMAHERA (267)

CGP 6.94 338 iPd 11 40.00 -0.2
MAP 8.93 338 eP 12 07.00 -0.4
PLP 9.41 346 eP 12 14.00 0.1
MTN 15.21 166 eP 13 30.00 -0.3
0.3s 137.00nm 5.7mb
CVP 16.53 341 ePc 13 48.00 1.2
WB2 22.86 163 iPd 14 56.10 0.7
0.6s 363.10nm 5.9mb
eS 19 00.10
eScP 22 12.70
MBL 24.16 197 iPc 15 08.40 0.4
0.4s 13.00nm 4.7mb
QZH 24.33 340 Pc 15 10.30 0.7
QIS 25.43 152 iPd 15 20.80 0.8
0.3s 18.00nm 5.0mb
ASPA 26.29 166 iPc 15 27.60 -0.3
0.4s 105.30nm 5.7mb
i 18 52.30
i 20 07.70
NANU 26.99 205 eP 15 34.50 0.2
0.3s 19.00nm 5.1mb
WARB 28.02 181 eP 15 44.00 0.5
0.4s 12.00nm 4.9mb
SSE 29.53 349 Pd 15 57.20 0.2
0.8s 20.00nm 4.9mb
MEKA 29.69 196 iPd 15 58.00 -0.5
0.5s 40.00nm 5.4mb
CHG 32.46 303 ePc 16 23.00 0.0
0.8s 10.26nm 4.7mb
FORR 32.67 179 eP 16 22.50 -2.0
COOL 33.22 190 eP 16 28.00 -1.4
BAL 33.97 197 eP 16 35.00 -0.8
0.4s 20.00nm 5.3mb
TSRJ 34.32 13 P 16 38.40 -0.4
KLB 34.62 194 eP 16 41.00 -0.4
0.4s 35.00nm 5.6mb
IIDJ 34.73 15 eP 16 42.80 0.4
MUN 35.40 196 iPd 16 48.00 0.0
0.6s 44.00nm 5.6mb
CHJJ 35.56 16 P 16 47.40 -1.9
MTMJ 35.75 14 P 16 50.00 -1.1
MAT 35.81 15 eP 16 50.00 -1.5
NWAO 36.02 195 iPd 16 53.60 0.3
0.6s 28.00nm 5.4mb
KAKJ 36.05 18 eP 16 50.60 -2.8
XAN 36.24 334 Pc 16 55.40 0.3
NIIJ 36.68 16 eP 16 57.00 -1.7
RKG 37.17 194 iPd 17 08.30 5.4X
YAMJ 37.84 16 P 17 08.90 0.4
TIY 38.10 341 iPd 17 11.60 0.9
BRS 38.12 142 iPc 17 11.00 0.0
ADE 38.28 165 iPc 17 12.80 0.6
OFUJ 39.16 18 P 17 19.80 0.4
BJI 39.21 346 eP 17 20.50 0.7
1.2s 71.00nm 5.4mb
sP 17 44.00
SNY 39.80 356 iPd 17 25.00 0.3
0.8s 24.00nm 5.1mb
COO 39.95 146 eP 17 27.50 1.3
LZH 40.31 330 P 17 30.50 1.4
1.5s 71.00nm 5.3mb
pP 17 44.00 51kmX
HHC 41.23 342 P 17 38.00 1.4
SHL 41.41 308 iP 17 38.40 0.0
BFD 41.45 162 eP 17 38.70 0.4
e 19 15.00
BTO 41.51 340 eP 17 39.70 0.8
CN2 41.66 358 P 17 39.60 -0.3
MDJ 42.49 2 Pc 17 47.00 0.3
1.0s 60.00nm 5.4mb
sP 18 14.70
HOOJ 42.67 17 P 17 49.20 1.0
TOO 42.81 159 eP 17 51.00 1.6
KUSJ 43.76 18 P 17 57.40 0.4
ASAJ 44.09 16 P 18 00.00 0.3
GTA 44.90 330 Pd 18 07.40 1.0
1.0s 10.00nm 4.6mb
GUN 47.25 307 P 18 25.56 0.1
0.6s 54.00nm 5.6mb
PKI 47.48 306 P 18 26.72 -0.6
0.8s 9.00nm 4.7mb
KKN 47.68 307 P 18 28.38 -0.3
DMN 47.74 306 P 18 29.08 -0.1
GKN 48.28 307 P 18 32.86 -0.4
0.8s 22.00nm 5.1mb
HYB 50.30 291 eP 18 48.50 -0.1
GBA 50.67 286 Pc 18 49.70 -1.7
0.7s 2.30nm 4.3mb
WMO 54.49 325 P 19 20.00 0.4
1.0s 48.00nm 5.5mb
INK 91.54 22 eP 23 05.00 8.8X
S.D. = 0.9 on 57 of 59 obs.

MAR 16, 1991 02h 45m 39.25± 0.43s
36.037 S ± 5.4km 70.851 W ± 6.3km
DEPTH = 117.6km (7 depth phases)
4.6mb (10 obs.)
CHILE-ARGENTINA BORDER REGION (127)

LNV 2.13 347 iPc 46 14.70 0.1
TACH 2.38 358 iPc 46 18.10 0.1
iS 46 46.00
PCH 2.43 7 iPc 46 19.50 0.8
iS 46 47.50
SAN 2.58 4 iPc 46 21.00 0.3
LCCH 2.62 347 iPc 46 20.30 -0.8
iS 46 50.00
PEL 2.89 3 iPc 46 25.00 0.3
iS 46 57.00
ROCH 3.06 357 iPc 46 26.60 -0.6
i 46 54.50
IHA 3.07 348 iPd 46 26.50 -0.6
iS 47 02.20
JACH 3.35 4 iPd 46 30.60 -0.4
iS 47 08.50
MDZ 3.55 28 eP 46 38.40 4.7X
i 47 22.30
iS 47 39.60
ZON 4.83 23 eP 46 50.00 -1.0
eS 47 47.00
RTCB 4.85 21 ePd 46 51.70 0.4
S 47 45.20
CFA 4.92 27 ePc 46 52.20 -0.1
eS 47 47.40
RTLL 5.10 24 iPd 46 54.30 -0.4
eS 47 50.00
TCA 7.01 50 ePd 47 20.80 -0.1
ITB7 17.99 57 eP 49 43.50 0.3
ITB1 18.16 56 eP 49 45.70 0.6
ITB 18.18 57 eP 49 45.80 0.4
CCH 19.05 14 Pc 49 54.50 -0.7
CNCB 19.32 8 P 49 59.70 1.3
ARE 19.50 358 iPd 50 01.00 1.0
LPB 19.58 8 Pc 50 01.00 0.1
ZOBO 19.84 8 Pd 50 04.00 0.3
1.0s 63.75nm 4.9mb
Z 20s 0.15um 3.8MszX
LR 54 00.00
SIV 21.79 26 P 50 22.00 -0.7
PPD 22.00 56 eP 50 23.80 -0.9
e 50 25.80
i 50 29.50
i 50 32.30
VAO 24.43 64 eP 50 48.80 0.5
e 50 50.70
e 50 54.60
BMA 26.70 67 eP 51 09.10 -0.1
e 51 11.30
BAO 28.78 51 ePc 51 26.20 -2.0
PDCR 36.92 59 eP 52 38.30 -0.1
SOB1 38.15 53 eP 52 49.50 0.8
RSCP 72.58 347 P 56 54.50 -0.7

16d 02h

			pP	57	23.00	112km
LIC	74.52	70	Pd	57	07.38	0.5
TIC	74.79	70	P	57	09.52	1.1
KIC	74.82	70	Pd	57	09.32	0.7
	0.3s	12.50nm			5.1mb	
TUL	75.25	339	ePc	57	09.50	-1.1
	0.8s	17.20nm			4.9mb	
FVM	75.85	344	P	57	13.50	-0.4
			pP	57	43.00	116km
LKO	76.23	67	P	57	17.12	0.5
ALQ	78.03	331	eP	57	27.00	0.7
	1.0s	7.50nm			4.4mb	
			epP	57	57.00	118km
ANMO	78.03	331	P	57	27.00	0.7
	1.0s	8.75nm			4.5mb	
			pP	57	57.50	120km
GAC	81.47	357	eP	57	45.00	0.9
GOL	81.80	334	P	57	47.90	1.5
	0.9s	9.47nm			4.6mb	
			pP	58	17.50	115km
RSSD	85.28	337	P	58	04.00	0.1
	0.8s	10.02nm			4.8mb	
			pP	58	35.50	122km
TNP	85.32	325	P	58	05.50	1.3
	1.0s	6.25nm			4.5mb	
			pP	58	36.50	120km
BUL	85.68	112	iPc	58	08.90	2.5
BW06	86.02	333	P	58	07.50	-0.1
	1.0s	4.17nm			4.4mb	
KRI	88.42	110	iPc	58	16.90	-2.8
YKA	104.30	341	ePdiff	59	29.80	-0.8
	0.5s	0.30nm			4.5mb	
HFS	117.94	34	ePKP	04	11.00	-1.6
	0.4s	1.70nm				
WB2	119.43	207	iPKPd	04	16.60	-0.1
	0.3s	6.20nm				
WRA	119.43	207	PKP	04	16.00	-0.7
	0.6s	3.80nm				
GBA	143.83	120	PKPc	05	00.70	-1.8
	0.7s	10.70nm				
OUE	144.38	87	iPKPc	05	04.20	0.8
HYB	147.17	116	iPKPd	05	11.80	3.7X
	1.0s	40.00nm				
SNG	150.23	163	ePKP	05	15.50	2.6X
	S.D. = 1.0	on	51 of	54	obs.	

MAR 16, 1991 03h 57m 41.26± 0.41s
34.594 N ± 8.5km 72.657 E ± 7.5km
DEPTH = 33.0km (normal)
4.5mb (15 obs.)
PAKISTAN (710)
MD 4.6 (NDI).

OUE	6.53	229	eP	59	18.20	0.6
NDI	7.06	145	ePn	59	24.50	-0.4
			ePg	59	55.00	
			eSn	00	39.00	
			eSg	01	16.00	
GKN	12.17	119	P	00	33.64	-1.7
DMN	12.73	120	P	00	41.44	-1.5
KKN	12.75	119	P	00	41.04	-2.2
PKI	12.97	119	P	00	43.96	-2.3
GUN	13.12	117	P	00	46.36	-1.9
WMO	14.84	47	P	01	11.50	1.1
POO	16.03	176	eP	01	25.00	-0.9
HYB	17.90	161	eP	01	42.00	-7.4X
SHL	18.89	113	eP	02	03.00	1.3
			eS	05	21.00	
GBA	21.34	167	Pd	02	30.50	2.8
	0.7s	4.70nm			4.0mb	
GTA	22.18	70	P	02	44.00	7.9X
	0.6s	10.00nm			4.4mb	
KOD	24.64	169	eP	03	02.20	1.7
CHTO	28.14	117	P	03	34.50	2.0
			e	03	39.00	
MLR	36.91	302	eP	04	52.00	3.2X
HFS	45.40	323	eP	05	58.00	-0.1
	0.5s	3.90nm			4.6mb	
NB2	46.71	324	P	06	08.80	0.2
	0.5s	2.40nm			4.4mb	
CDF	49.43	307	eP	06	29.80	-0.1
BSF	49.84	306	eP	06	32.30	-0.9
	1.0s	10.00nm			4.8mb	
HAU	50.11	307	eP	06	34.50	-0.6
LPG	50.31	303	eP	06	36.90	-0.1
	0.6s	1.80nm			4.3mb	
LPL	50.32	303	eP	06	36.60	-0.4
	1.0s	6.00nm			4.6mb	
SMF	52.05	305	eP	06	49.10	-0.7
	1.2s	13.40nm			4.8mb	
SSF	52.18	306	eP	06	49.90	-0.9
AVF	52.34	306	eP	06	51.30	-0.7
MAF	53.00	305	eP	06	56.40	-0.5
	1.2s	14.90nm			4.8mb	
TCF	53.23	305	eP	06	58.10	-0.5
	1.1s	7.35nm			4.6mb	
LSF	53.69	305	eP	06	59.90	-2.1
BCAO	58.30	252	ePc	07	40.20	4.7X
	0.6s	4.00nm			4.7mb	
MBC	69.17	3	eP	08	57.50	11.6X
	1.0s	6.00nm				
INK	75.56	10	eP	09	25.00	1.2
FBA	75.91	17	P	09	28.00	2.1
WRA	79.83	123	P	09	49.00	0.9
	0.6s	1.70nm			4.2mb	
WB2	79.84	123	iPd	09	49.50	1.3
	0.4s	3.70nm			4.7mb	
ASPA	82.05	126	iPd	10	02.30	2.6
	1.4s	4.50nm			4.3mb	
YKA	83.07	3	eP	10	05.10	0.7
	0.5s	1.00nm			4.2mb	
	S.D. = 1.4	on	32 of	37	obs.	

% MAR 16, 1991 05h 42m 37.65± 0.99s
37.806 N ±12.9km 14.766 E ± 6.9km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO	0.14	336	Pd	42	41.90	0.8
			eSg	42	44.50	
GIB	0.61	288	P	42	49.10	-1.0
			eSg	42	58.50	
ATN	0.65	57	P	42	50.50	-0.2
			eSg	43	01.80	
FAI	1.02	239	P	42	57.30	0.5
			eSn	43	09.80	
SOI	1.05	75	P	42	57.40	-0.1
			eSn	43	12.20	
	S.D. = 1.0	on	5 of	5	obs.	

% MAR 16, 1991 05h 46m 38.01± 0.99s
44.406 N ± 7.7km 6.982 E ± 8.1km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 1.9 (GEN).

PZZ	0.13	41	P	46	41.43	0.1
			S	46	43.31	
FOUF	0.19	311	iPgc	46	41.91	-0.3
			e(Sg)	46	43.83	
STV	0.29	123	P	46	44.17	0.0
			S	46	48.04	
ENR	0.36	120	P	46	45.39	-0.1
			S	46	50.05	
BHB	0.48	25	P	46	47.25	-0.5
			S	46	53.27	
RRL	0.53	345	P	46	49.38	0.5
			S	46	56.49	
ROB	0.65	100	P	46	51.26	0.2
			S	46	59.46	
	S.D. = 0.4	on	7 of	7	obs.	

MAR 16, 1991 05h 51m 17.47± 0.28s
41.411 N ± 3.4km 19.472 E ± 2.8km
DEPTH = 12.5 ± 2.4 km
ALBANIA (391)
ML 3.6 (TTG). MD 3.6 (ATH), 3.4 (THE).

ULC	0.58	343	iPgd	51	29.15	0.2
			iSg	51	38.75	
BDV	1.00	331	iPgd	51	37.22	1.1
			iSg	51	52.08	
TTG	1.03	351	iPgc	51	36.57	-0.1
			iSg	51	53.00	
OHR	1.04	106	iPg	51	36.10	-0.9
			iSg	51	52.50	
			LR	51	58.90	
PVY	1.24	17	iPgd	51	39.68	-0.7
			iSg	51	58.32	
HCY	1.26	325	iPgd	51	41.97	1.2
			iSg	52	01.43	
NKY	1.44	346	iPgd	51	44.68	1.3
			iSg	52	05.88	
IVA	1.49	12	iPgc	51	44.78	0.7
			iSg	52	06.48	
FNA	1.57	113	ePd	51	46.50	1.3
LCI	1.58	227	P	51	47.00	1.8
			eSg	52	08.00	
SKO	1.58	69	iPn	51	46.00	0.8
			iSg	52	08.50	
BRY	1.64	335	iPnc	51	47.90	1.6
			iSn	52	10.93	
KEK	1.71	172	ePb	51	51.50	4.3X
			eSn	52	11.80	
BRT	1.79	253	P	51	52.70	4.3X
			eSn	52	16.50	
PLE	1.92	358	iPnc	51	52.47	2.2
			iSn	52	18.25	
BAI	1.99	262	P	51	51.50	0.4
IGT	1.99	160	ePd	51	52.82	1.6
KZN	2.06	122	ePn	51	53.50	1.1
GRG	2.26	101	ePd	51	55.66	0.5
			eS	52	24.06	
VAY	2.33	91	iPn	51	56.70	0.5
			i	52	01.60	
			iSn	52	24.00	
			LR	52	39.80	
KNT	2.59	94	iPd	52	00.30	0.4
LIT	2.64	119	ePc	52	00.86	0.3
			eS	52	32.62	
ORI	2.66	241	P	52	01.80	0.9
THE	2.76	105	ePc	52	02.06	-0.1
TDS	2.96	235	P	52	04.80	-0.3
SOH	2.99	100	ePd	52	06.02	0.5
SRS	3.12	94	ePc	52	07.18	-0.1
MGR	3.23	248	P	52	09.00	0.0
AGG	3.24	137	ePc	52	09.70	0.7
SGO	3.26	256	P	52	09.90	0.5
			eSg	52	51.00	
VLS	3.34	165	ePn	52	10.00	-0.5
BEO	3.48	12	ePn	52	12.00	-0.4
PAIG	3.53	113	ePc	52	11.74	-1.3
			eS	52	53.26	
DUI	3.77	275	P	52	17.10	0.4
SDI	4.25	276	P	52	24.40	0.9
BZS	4.48	20	ePc	52	25.50	-1.1
AZI	4.56	279	P	52	27.00	-0.7
ALP	4.60	289	ePn	52	27.67	-0.8
ALN	4.99	94	ePd	52	34.06	0.2
CIO	5.02	293	iPn	52	32.25	-2.1
			iSn	53	27.00	
MNS	5.16	283	P	52	36.60	0.3
ARV	5.26	296	P	52	36.50	-1.3
			eSn	53	34.50	
ASS	5.32	290	P	52	38.50	-0.1
CEY	5.67	321	eP	52	45.00	1.5
			e	52	50.50	
			eSn	55	34.65	
LJU	5.85	324	eP	52	53.30	7.3X
			e(Sn)	53	52.00	
CRE	5.98	294	P	52	47.60	-0.4
VOY	6.14	321	ePn	52	49.30	-0.8
			eSn	53	57.20	
SFI	6.15	297	P	52	50.10	-0.1
			eSn	53	55.50	
MLR	6.23	47	eP	52	52.00	0.5
			e	14	26.00	
FVI	7.08	319	P	53	01.50	-1.7
KBA	7.17	324	e(Pn)	53	07.00	2.3
			i	53	15.50	
			iSn	54	22.50	
CTI	7.32	312	P	53	04.40	-2.3
			eSn	54	22.50	
	S.D. = 1.1	on	49 of	52	obs.	

MAR 16, 1991 06h 02m 10.93± 0.16s
10.174 N ± 3.6km 85.184 W ± 2.9km
DEPTH = 33.3km (7 depth phases)
5.3mb (69 obs.) 6.3Msz (42 obs.)
COSTA RICA (78)
Ms 6.2 (BRK). Mo=3.0•10••18 Nm (PPT). Felt in Guanacoste Province.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 27S, 72C
Centroid Location:
Origin Time 06:02:14.4 0.3
Lat 9.76N 0.03 Lon 85.43W 0.03
Dep 15.0 BDY Half-durotion 5.0

16d 06h

Moment Tensor; Scale 10**18 Nm
Mrr= 1.86 0.05 Mtt=-1.37 0.05
Mff=-0.49 0.06 Mrt= 2.16 0.16
Mrf=-1.55 0.12 Mtf= 0.73 0.05
Principal Axes:
T Val= 3.26 Plg=62 Azm= 39
N -0.08 3 304
P -3.18 28 212
Best Double Couple:Mo=3.2*10**18
NP1:Strike=295 Dip=17 Slip= 81
NP2: 124 73 93

JTS	0.26	63	iPd	02	33.80	15.6X
JUD	0.36	268	iPd	02	16.50	-3.1
CAO	0.48	170	iPd	02	18.30	-2.9
EPA	0.61	108	iPd	02	26.80	3.7X
PTCR	0.84	117	iP+	02	29.00	2.5X
POA2	0.92	90	iPd	02	33.40	5.6X
OCM	1.24	103	iP+	02	36.30	4.1X
OPS	1.29	126	iP+	02	32.70	0.0
VTU	1.41	96	iPd	02	40.00	5.1X
CDM	1.53	114	iP+	02	38.50	1.9
QZA	5.00	312	iPc	03	25.10	-0.6
SJAS	5.22	312	eP	03	29.00	0.1
			eS	04	26.50	
LFU	5.23	313	eP	03	31.20	2.1
VSS	5.32	312	iPc	03	31.70	1.4
ECO	5.47	98	ePd	03	35.20	2.9X
TME	5.59	314	eP	03	35.80	1.8
UPA	5.70	102	iPc+	03	37.20	1.7
	0.5s		70.42nm		5.5mb	
			S	05	08.20	
CUSS	5.96	309	iPd	03	39.20	0.0
TPX	8.36	305	(P)	04	13.50	0.7
SCX	9.75	313	(P)	04	37.50	5.6X
SPJ	10.73	43	ePd	04	53.21	7.7X
HOJ	11.29	45	ePc	05	00.11	7.1X
			eS	08	35.00	
STH	11.29	45	ePc	05	00.36	7.2X
			eS	08	43.56	
YHJ	11.40	47	ePc	05	01.10	6.6X
PSO	11.86	138	eP	05	02.50	1.3
COTA	11.91	145	eP	05	02.50	0.5
YANA	12.16	147	Pd	05	05.60	0.3
QUR	12.23	147	eP	05	07.00	0.9
FUQ	12.26	112	eP	05	07.50	1.0
CAYA	12.32	144	eP	05	07.50	0.0
BOG	12.33	116	iPc	05	12.00	4.6X
			eS	07	52.00	
BMG	12.36	103	eP	05	13.00	5.3X
ANGL	12.96	144	eP	05	08.80	-7.1X
OXX	13.15	303	(P)	05	19.00	0.8
SDV	14.41	94	eP	05	39.20	4.4X
LVVM	14.44	312	(P)	05	33.00	-2.0
IISM	14.69	308	(P)	05	35.50	-2.7
TOV	15.17	90	eP	05	49.40	4.9X
IIT	15.44	306	(P)	05	50.00	1.7
PPM	15.72	306	(P)	05	52.00	-0.1
ACX	15.74	297	(P)	05	54.50	2.6X
III	16.06	302	(P)	05	58.00	1.8
UNM	16.30	306	(P)	06	01.00	1.6
CEOS	16.65	92	iP	06	04.90	1.3
CRX	16.74	305	(P)	06	07.00	2.0
CAR	17.96	87	iPc	06	23.00	2.9X
			iS	09	48.00	
LLAV	18.08	87	iP	06	24.60	3.1X
MRX	18.12	303	(P)	06	24.00	2.1
MGP	19.19	64	P	06	36.50	1.7
GUAN	19.24	89	iP	06	37.00	1.4
MCP	19.32	63	P	06	36.00	-0.5
SJG	20.06	65	e(P)	06	46.00	1.6
CPD	20.24	65	P	06	47.00	0.7
LPR	20.38	64	P	06	49.00	1.2
VNM	21.36	319	(P)	07	09.00	11.4X
HBF	23.08	10	P	07	18.40	3.8X
SGS	23.31	10	P	07	20.30	3.4X
TRN	23.39	87	eP	07	20.00	2.2
BBL	23.71	75	eP	07	24.00	3.1X
SEG	23.85	72	eP	07	26.00	3.7X
PRM	23.94	6	P	07	25.30	2.3
MZX	24.07	305	(P)	07	27.00	2.6X
DEG	24.25	73	eP	07	24.50	-1.7
JSC	24.26	8	P	07	28.70	2.6X
PWLA	24.83	354	P	07	32.10	0.5
RSCP	25.31	359	P	07	38.10	1.9
	Z 22s		30.69um		5.8Msz	
UYO	25.35	342	iPd	07	34.50	-2.0

GBTN	25.39	2	P	07	38.20	1.3
TKL	25.40	3	P	07	38.20	1.2
OLY	25.85	348	P	07	40.80	-0.4
ELC	27.24	353	P	07	53.50	-0.4
BLA	27.26	8	iPc	07	55.40	1.2
	1.0s		190.00nm		5.7mb	
	Z 20s		78.72um		6.3Msz	
TUL	27.37	341	ePc	07	53.00	-2.2
	0.8s		68.70nm		5.4mb	
	Z 22s		43.09um		6.0Msz	
			LR	17	39.30	
FVM	28.09	351	iPc	08	00.20	-1.4
	0.7s		51.02nm		5.3mb	
			ePcP	11	15.90	
CBN	28.78	13	eP	08	10.00	2.2
ARE	29.73	153	eP	08	17.00	0.0
			e	12	52.00	
ZOBO	31.23	147	eP	08	26.00	-4.5X
	1.0s		23.75nm		5.0mb	
			S	13	44.00	
CLE	31.36	5	iP	08	30.50	-0.2
ALQ	31.38	325	iPc+	08	30.30	-0.9
	1.0s		73.00nm		5.5mb	
	Z 20s		19.33um		5.8Msz	
			e	08	40.00	34km
ANMO	31.38	325	iP	08	30.40	-0.8
	1.0s		82.50nm		5.5mb	
	Z 22s		19.44um		5.7Msz	
			e	10	11.00	
			iPcP	11	26.00	
			e	12	04.00	
			iS	13	44.50	
LPB	31.46	147	P	08	30.00	-2.4
	Z 16s		67.34um		6.4MszX	
			S	13	39.00	
			LR	18	10.00	
LVNJ	31.87	15	P	08	37.80	2.6X
GMTN	32.09	16	eP	08	39.00	1.8
PNJ	32.13	16	iP	08	34.00	-3.4X
WVLY	32.69	9	P	08	43.60	1.2
DLA	32.71	5	P	08	42.20	-0.3
LDN	32.93	5	P	08	43.90	-0.5
ELF	33.07	5	P	08	44.95	-0.7
CCH	33.22	145	P	08	47.80	0.2
GLD	34.43	332	ePc	08	57.10	-0.6
	1.0s		150.00nm		5.9mb	
	Z 22s		31.29um		6.0Msz	
			i	10	33.80	
GOL	34.46	332	P	08	57.30	-0.7
	Z 22s		22.35um		5.9Msz	
SIV	35.29	137	iPd	09	05.00	-0.1
PV09	35.44	327	ePc	09	05.60	-0.9
			e(PP)	10	46.00	
			ePcP	11	37.70	
RSNY	35.46	13	iPc	09	06.40	0.1
	1.3s		298.42nm		6.1mb	
	Z 20s		96.05um		6.6Msz	
GLA	35.52	314	eP	09	08.00	1.0
IKP	36.22	313	eP	09	15.50	2.6X
GAC	36.37	11	eP	09	15.00	1.2
	0.8s		35.00nm		5.3mb	
ANT	36.64	157	eP	09	20.00	3.7X
BAR	36.65	312	eP	09	17.00	0.6
TPC	36.95	315	eP	09	19.00	0.0
CPE	37.06	312	eP	09	22.10	2.3
PLM	37.13	313	eP	09	21.00	0.4
RSSD	37.56	338	ePc	09	23.00	-1.1
	1.0s		75.92nm		5.5mb	
	Z 22s		33.86um		6.1Msz	
			ePP	10	59.80	
			e	11	12.80	
			ePcP	11	43.00	
			i	13	22.50	
MIM	37.60	19	P	09	25.60	1.4
PEC	37.62	314	ePc	09	25.70	1.1
			ePcP	11	43.80	
RVR	37.83	314	eP	09	27.00	0.7
MWC	38.43	314	eP	09	33.00	1.4
			e	11	22.00	
PAS	38.47	313	eP+	09	31.00	-0.7
			epP	09	42.00	39km
			ePP	11	12.00	
			ePPP	11	35.00	
			eS	15	31.00	
			eLg	18	26.00	
			eScS	19	34.00	
			eLR	20	00.00	

SBB	38.50	314	eP	09	33.00	0.9
DUG	38.65	325	P	09	33.80	0.5
	0.9s		30.08nm		5.1mb	
BW06	38.83	331	eP	09	33.00	-1.9
	1.1s		79.37nm		5.4mb	
			i	11	44.30	
			iScP	15	35.20	
CLC	38.95	316	eP	09	36.00	0.3
CBM	39.40	18	ePc	09	40.00	0.8
ISA	39.47	315	eP	09	41.00	0.9
			e	11	50.00	
ABL	39.57	314	P	09	42.50	1.3
SYP	39.96	313	eP	09	45.00	0.8
TNP	39.97	319	ePd	09	44.60	0.2
	1.0s		160.00nm		5.7mb	
			e	11	15.30	492kmX
BLP	40.28	313	P	09	48.40	1.7
BCH	40.36	314	P	09	49.40	2.0
BONR	40.60	318	P	09	50.50	0.9
PKEM	40.81	315	P	09	53.00	2.0
FRI	41.01	316	iPc	09	52.20	-0.4
KVN	41.09	320	P	09	54.10	0.5
PRI	41.24	315	ePc	09	55.40	0.7
HPI	41.26	329	P	09	55.90	0.9
LLA	41.67	315	iPc	09	58.60	0.5
PRS	41.83	314	ePc	10	00.10	0.7
CMB	42.02	317	iPc	10	01.30	0.3
			i	10	12.50	40km
			ePcP	11	40.70	
			eScP	15	48.10	
SAO	42.09	315	e(P)	10	01.20	-0.4
ARN	42.45	316	P	10	05.80	1.3
LRM	42.49	332	eP	10	04.20	-0.8
MHC	42.52	316	ePc	10	05.10	-0.1
GCC	42.61	315	ePc	10	06.90	1.2
PCC	43.11	315	ePc	10	10.80	1.0
BKS	43.19	316	ePc	10	11.40	0.9
	0.8s		391.00nm		6.2mb	
BKS	43.19	316	eP	10	12.00	1.5
	Z 20s		24.00um		6.1Msz	
	N 20s		22.00um			
	E 20s		29.00um			
			eS	16	00.00	
			e	20	10.00	
			eLQ	20	32.00	
			eLR	21	56.00	
			e	23	00.00	
BRK	43.21	316	iPc	10	11.50	0.9
	Z 20s		22.00um		6.1Msz	
			ePP	12	04.00	
			e	15	13.00	
			e(S)	16	15.00	
			eScS	20	20.00	
			eLQ	23	03.00	
			eLR	25	18.00	
ORV	43.57	318	ePc	10	14.10	0.6
NWRM	43.93	316	P	10	17.00	0.6
MIN	44.06	319	ePc	10	17.00	-0.7
LTCM	44.32	319	P	10	20.00	0.4
LBFM	44.79	320	P	10	23.00	-0.6
WDC	44.79	319	ePc	10	21.00	-2.4
			ePcP	12	04.80	
BAO	44.88	124	ePc	10	25.50	0.9
ROCH	44.98	163	eP	10	24.00	-1.3
PEL	45.24	163	eP	10	20.00	-7.1X
SES	45.42	337	ePc	10	27.00	-1.4
	2.0s		405.00nm		6.0mb	
MDZ	45.56	161	eP	10	38.40	8.7X
			e	20	38.90	
PCH	45.73	163	eP	10	24.00	-7.0X
TCA	45.75	155	eP	10	29.50	-1.7
LNV	45.80	164	ePc	10	30.00	-1.4
FHC	45.84	318	ePc	10	32.30	0.5
PPD	46.13	134	eP	10	33.80	-0.5
			e	10	40.70	23km
			e	10	53.70	
FFC	46.39	347	ePc	10	34.60	-1.3
	0.8s		70.00nm		5.7mb	
NEW	46.46	331	iPc	10	34.30	-2.3
	0.9s		37.28nm		5.3mb	
			e	11	06.40	142kmX
			ePcP	12	12.00	
DPW	46.72	330	P	10	37.60	-1.1
SCH	46.86	15	ePc	10	38.90	-0.7
	0.8s		153.00nm		6.0mb	
SOB1	48.10	112	eP	10	49.90	0.0
RMW	48.31	327	P	10	50.20	-1.0

16d 06h

PNT		48.39	330	ePc	10	51.00	-0.7	EPF		79.88	48	eP	14	18.20	0.1	NB2		84.27	29	P	14	38.10	-2.4
		0.9s	132.00nm			6.0mb				0.8s	8.75nm			4.8mb				0.9s	18.00nm			5.2mb	
EDM		48.54	338	ePc	10	51.00	-1.8	LFF		80.02	46	eP	14	18.40	-0.3	TEGH		84.30	85	eP	14	43.00	1.5
GMW		48.89	327	P	10	54.20	-1.4			0.9s	14.75nm			5.0mb		LMR		84.33	47	eP	14	40.90	-0.2
MCW		49.61	328	P	11	00.20	-0.9	EROQ		80.11	50	eP	14	19.50	0.2			1.0s	16.00nm			5.1mb	
VAO		49.87	132	eP	11	03.50	0.0	EBR		80.18	50	iPc	14	20.00	0.4	FRF		84.40	47	eP	14	41.30	-0.1
				e	11	05.60	7kmX					eS	24	32.00				1.0s	16.00nm			5.2mb	
				e	11	16.40		LPO		80.36	46	eP	14	19.60	-1.0	TNS		84.58	40	ePc	14	41.50	-0.8
PGC		49.91	328	eP	11	02.00	-1.3			1.0s	18.00nm			5.0mb		FEL		84.67	42	P	14	41.40	-1.5
PDCR		51.01	115	eP	11	12.00	-0.1	RJF		80.54	46	eP	14	21.00	-0.5	SBF		84.91	47	eP	14	43.70	-0.4
				e	11	22.70	37km			1.2s	26.80nm			5.1mb				0.9s	18.00nm			5.3mb	
LPA		51.73	151	eP-	11	20.00	2.7X		Z	20s	27.50um			6.6Msz		CKI		85.42	46	P	14	46.30	-0.3
	Z	20s	12.77um			5.9Msz		TCF		80.94	45	eP	14	22.80	-0.8	HFS		85.65	30	eP	14	45.80	-1.5
			iS		18	37.20				0.8s	10.75nm			4.9mb				0.6s	14.00nm			5.4mb	
FRB		54.78	9	eP	11	37.00	-2.5	CAF		80.96	46	eP	14	23.40	-0.4		Z	19s	8.98um			6.2Msz	
		0.4s	20.00nm			5.5mb		MAF		81.19	45	eP	14	24.10	-0.8				LR		44	20.00	
YKA		56.39	344	eP	11	48.50	-2.7			0.9s	12.30nm			4.9mb		BOB		86.19	45	P	14	50.50	0.1
		0.6s	24.70nm			5.4mb		BGF		81.35	44	eP	14	25.00	-0.7	PGF		86.26	48	eP	14	49.90	-1.0
SIT		60.55	331	eP	12	17.60	-2.5			0.8s	18.80nm			5.1mb				1.1s	26.85nm			5.4mb	
	Z	18s	19.00um			6.3Msz		KBS		81.45	11	iPd	14	27.00	1.3	GRF		86.44	40	ePc	14	51.40	-0.1
INK		66.03	342	ePc	12	53.30	-2.9	AVF		81.68	44	eP	14	26.40	-1.0			2.1s	70.00nm			5.5mb	
		0.8s	87.00nm			5.9mb				0.9s	6.55nm			4.7mb			Z	19s	10.00um			6.2Msz	
KLU		67.36	333	P	13	04.50	-0.4	SSF		81.75	44	eP	14	26.90	-0.9				e		14	53.70	
TOA		67.70	334	eP	13	07.10	0.1			0.8s	6.05nm			4.7mb					e(pP)		15	01.50	32km
MBC		68.57	352	ePc	13	10.50	-1.6	UCC		81.92	40	P+	14	27.00	-1.5				e(sP)		15	07.70	
		1.0s	59.00nm			5.6mb		LOR		81.97	43	eP	14	28.10	-0.8	MOX		86.50	39	ePc	14	52.00	0.2
			pP		13	41.00	123kmX			1.2s	22.30nm			5.1mb				1.9s	69.00nm			5.6mb	
PMR		68.84	333	ePc	13	13.40	-0.5		Z	18s	22.50um			6.6Msz			Z	18s	11.00um			6.3Msz	
		0.9s	50.40nm			5.6mb		ILT		81.98	338	iPc	14	28.40	-0.1		N	18s	7.70um				
	Z	22s	19.40um			6.3Msz				1.4s	92.00nm			5.6mb			E	18s	7.30um				
SLKM		69.02	331	eP	13	14.10	-1.0		Z	18s	15.00um			6.4Msz					eS		25	30.00	
FBA		69.40	336	eP	13	16.80	-0.5		N	18s	11.00um					BRN		87.09	37	eP	14	54.00	-0.5
		0.8s	43.20nm			5.6mb					i		14	29.00	2kmX	CLL		87.21	38	iP	14	54.80	-0.4
RSO		70.21	331	iP	13	22.00	-0.6				ePP		17	24.00				1.4s	31.00nm			5.4mb	
SVW		71.73	331	ePc	13	30.80	-0.8				e		19	28.00			Z	17s	8.00um			6.2MszX	
IMA		72.09	336	ePc	13	33.00	-0.8				i		21	24.00					e		15	04.00	29km
		0.9s	16.20nm			5.0mb					iS		24	44.00					eSKS		25	26.00	
TTA		72.30	333	ePc	13	33.70	-1.3				e		25	32.00		CTI		87.46	44	P	14	56.10	-0.5
		1.1s	77.10nm			5.6mb					eSS		30	50.00		WET		87.61	41	eP	14	57.10	-0.1
VAL		72.77	39	eP	13	37.00	-0.8				e		36	24.00			Z	18s	7.00um			6.1Msz	
			S		23	09.00		SMF		82.03	44	eP	14	28.20	-1.0	UPP		87.63	30	iP	14	55.80	-1.2
PTO		73.29	50	e(P)	13	41.00	-0.1			1.0s	10.00nm			4.8mb					iPP		18	22.00	
			e(S)		23	05.00		LBF		82.08	44	eP	14	28.30	-1.3				iS		25	22.00	
SDN		73.34	325	eP	13	42.00	0.9	DOU		82.14	41	P	14	29.00	-0.7	FIR		87.65	46	iPc	14	57.00	-0.4
AVE		74.30	58	iP	13	48.00	0.8		Z	18s	4.70um			5.9Msz					eS		25	28.00	
			i		14	16.50	112kmX				SKS		24	46.00		BRG		87.89	39	iPc	14	58.20	-0.2
TIO		74.53	61	iP	13	49.50	0.8				e		25	36.00				2.0s	66.00nm			5.6mb	
BRW		74.54	341	eP	13	47.60	-0.2	DBN		82.28	38	eP	14	28.00	-2.4				e		18	30.00	
EJIF		75.79	55	eP	13	56.50	0.9		Z	20s	6.70um			6.0Msz		BHG		87.92	42	eP	14	55.06	-3.7X
IFR		76.20	58	iPc	13	58.00	-0.3				ePP		17	36.00			Z	19s	16.00um			6.5Msz	
MAL		76.63	55	iPd	14	02.00	1.7				eS		24	56.00		SFI		88.04	46	P	14	59.70	0.4
			iS		23	50.00					ePS		25	52.00		KHC		88.06	41	iPc	14	59.50	0.1
			iSS		29	16.00					eSS		30	22.00			N	19s	3.50um				
ANM		76.66	334	eP	14	00.70	0.7				eSSS		34	00.00			E	19s	5.00um				
GUD		76.66	51	eP	14	01.00	0.3	ENN		82.91	40	eP	14	32.50	-1.2				S		25	30.00	
TOL		76.77	51	iP+	14	02.00	0.9			0.9s	15.00nm			5.1mb		FVI		88.11	43	P	14	59.40	-0.1
			iPP		17	03.00		ADK		83.01	321	ePc	14	36.10	1.9	KBA		88.38	43	iPc	15	00.50	-0.6
			ePPP		19	21.00				0.8s	359.60nm			6.5mb X				1.4s	27.10nm			5.4mb	
			iS		23	58.00		WIT		83.10	38	eP	14	43.00	8.4X				e		18	27.00	
			iPS		24	40.00		VITF		83.28	42	P	14	35.04	-0.6	PRU		88.47	40	Pc	15	01.00	-0.3
			iSS		29	00.00		WTS		83.30	38	eP	14	35.00	-0.6		Z	15s	12.40um			6.4MszX	
EKA		77.17	35	P	14	02.00	-0.9			0.7s	14.00nm			5.2mb			N	16s	5.90um				
		1.1s	30.20nm			5.2mb		HAU		83.55	42	eP	14	36.60	-0.5		E	16s	8.40um				
ECOG		77.27	54	eP	14	05.00	0.9			1.0s	16.00nm			5.1mb					e		18	44.00	
AFC		77.29	54	eP	14	04.50	0.3		Z	19s	30.00um			6.7Msz					e		23	26.00	
ECRI		77.82	49	eP	14	07.00	0.1	BNS		83.67	39	ePc	14	26.80	-10.8X				S		25	30.00	
LKO		78.21	82	Pc	14	09.98	0.5			1.2s	49.00nm								PPS		26	53.00	
		0.9s	111.50nm			5.9mb		KUK		83.84	85	eP	14	40.00	0.8	KMR		88.67	41	iP+	15	02.20	-0.1
ETOR		78.25	50	eP	14	09.50	0.2	BSF		83.87	43	eP	14	38.00	-0.8				iPP		18	32.20	
LPF		78.61	43	eP	14	10.40	-0.6			1.3s	28.90nm			5.3mb		SOD		88.84	21	iP	15	01.70	-1.0
GRR		78.71	43	eP	14	10.90	-0.7	LOMF		83.96	43	P	14	38.23	-1.1	TRI		88.97	44	iPc	15	02.50	-1.2
		0.8s	25.50nm			5.3mb		KOGH		83.98	85	eP	14	41.00	1.0				iPP		18	28.00	
FLN		78.95	42	eP	14	12.30	-0.5	ECH		84.06	42	P	14	38.85	-0.8				iS		25	40.00	
		0.8s	16.10nm			5.1mb		ABH		84.06	41	eP	14	38.93	-0.7				eSP		26	42.00	
	Z	20s	15.00um			6.3Msz		MOF		84.09	43	P	14	39.08	-0.9				iSS		32	00.00	
ECHE		79.16	52	eP	14	15.00	0.7	CDF		84.10	42	P	14	38.47	-1.5				iLR		44	20.00	
LDF		79.19	42	eP	14	13.80	-0.4	LEGH		84.12	85	eP	14	42.00	1.4	VOY		88.99	43	e(P)	15	05.60	1.7
		0.8s	25.50nm			5.3mb		WLS		84.16	42	P	14	38.87	-1.3	KSP		89.34	38	ePc	15	04.80	-0.6
TIC		79.21	85	P	14	15.96	1.0	LPL		84.17	45	eP	14	40.30	-0.2				e		19	18.40	
LIC		79.27	86	P	14	15.88	0.6			0.9s	5.75nm			4.7mb		LJU		89.42	43	e(P)	15	05.50	-0.4
		0.9s	187.50nm			6.1mb		LPG		84.18	45	eP	14	41.00	0.3				eS		25	28.00	
	Z	20s	6.00um			5.9Msz				1.4s	23.95nm			5.2mb		CEY		89.42	44	eP	15	05.80	-0.1
			S		24	16.00		BNI		84.19	45	P	14	42.20	1.6	VKA		90.03	41	iPc	15	08.40	-0.3
MFF		79.29	44	eP	14	14.50	-0.3	LRG		84.21	47	eP	14	40.50	0.1			5.0s	896.00nm			6.3mb X	
		0.8s	12.10nm			4.9mb				0.7s	4.40nm			4.7mb			Z	18s	6.00um			6.1Msz	
KIC		79.53	85	P	14	17.30	0.6	SHGH		84.21	85	eP	14	42.50	1.5				LR		55	07.00	
		1.0s	140.50nm			5.9mb		GWF		84.25	41	P	14	39.99	-0.6	VBY		90.04	44	e(P)	15	09.70	0.9

ZST	90.56	41	eP	15	11.20	0.1	
			e	16	18.00	277kmX	
NUR	90.73	28	eP	15	11.00	-0.6	
	0.8s		17.60nm			5.4mb	
	Z 18s		14.40um			6.5Msz	
			e	19	48.00		
			e	25	48.00		
			e	27	22.00		
			LR	53	22.00		
KAF	90.84	26	iP	15	11.60	-0.5	
	0.7s		3.60nm			4.8mb	
SRO	91.45	41	eP	15	14.50	-0.7	
			e	16	16.60	256kmX	
			e	19	03.30		
			e	19	38.80		
KRA	91.80	39	eP	15	16.80	0.1	
			e	15	39.50	83kmX	
SPC	92.26	39	eP	15	12.60	-6.6X	
			e	15	18.40	18kmX	
PUL	93.62	27	eP	15	24.00	-0.9	
			eS	26	11.00		
UZH	93.72	39	ePc	15	33.00	7.4X	
MNK	94.81	33	eP	15	28.00	-2.5	
TIK	95.29	350	eP	15	31.50	-0.9	
			eS	26	47.00		
PET	97.03	327	eP	15	26.00	-14.6X	
	Z 24s		7.60um			6.1MszX	
			eSS	27	00.00		
			e	29	30.00		
			e	38	30.00		
			eLR	52	00.00		
OBN	98.88	30	iPc	15	45.00	-3.9X	
	Z 16s		12.60um			6.5MszX	
SIM	102.62	39	ePdiff	16	08.00	2.1	
BCAO	102.67	83	iPdiff	16	09.00	2.1	
	1.0s		10.00nm			5.5mb	
			id	20	16.00		
BBTK	104.08	45	iPdiff	16	20.00	7.3X	
SNZO	104.22	230	ePdiff	16	24.00	10.9X	
			PP	20	36.00		
			(SP)	29	44.00		
			(SS)	35	36.00		
HLW	107.16	54	ePKP	20	55.00	19.1X	
BUL	115.68	107	iPKPd	20	54.40	1.8	
KRI	116.48	104	iPKPd	20	49.00	-5.2X	
MAT	118.17	321	ePKP	20	56.00	-0.7	
	Z 20s		3.90um			6.0Msz	
CN2	119.49	335	PKPc	20	59.00	0.0	
	9.0s		1000.00nm				
	Z 17s		20.00um			6.8MszX	
	N 17s		2.40um				
	E 17s		4.50um				
			sPKP	21	09.00		
SNY	121.90	335	ePKP	20	59.20	-4.4X	
	8.0s		900.00nm				
	Z 21s		6.70um			6.3Msz	
	N 20s		6.00um				
	E 17s		2.80um				
			SKS	28	06.00		
SHI	123.20	44	ePKP	21	07.00	0.3	
FRU	124.11	18	ePKP	21	09.00	1.1	
GUA	124.99	294	ePKP	21	20.00	9.7X	
WMQ	125.87	6	PKP	21	12.00	0.6	
	Z 24s		14.50um			6.6MszX	
	N 20s		21.70um				
	E 18s		6.60um				
			PP	23	05.00		
			PKS	24	47.00		
			SKS	28	18.00		
BJI	126.26	340	ePKP	21	11.50	-0.6	
	9.0s		1050.00nm				
	Z 20s		12.80um			6.6Msz	
	N 19s		6.84um				
			ePP	23	05.00		
			eSKS	28	22.00		
RMQ	126.67	245	ePKPc	21	13.40	0.0	
HHC	126.93	344	ePKP	21	11.00	-2.6	
	Z 22s		13.70um			6.6Msz	
	N 19s		6.10um				
	E 19s		5.00um				
			PP	23	10.00		
			SKS	28	24.00		
TOO	127.03	230	ePKP	21	14.00	0.2	
BTO	127.56	345	PKP	21	15.00	0.2	
	N 17s		6.30um				
	E 17s		1.90um				
			PP	23	14.00		
KSH	127.61	18	PKP	21	16.00	1.1	
	E 16s		10.80um				
			PP	23	15.00		
CMS	128.34	238	ePKP	21	16.80	0.4	
TIA	129.30	337	PKPc	21	18.70	0.6	
	9.0s		1700.00nm				
	Z 20s		6.70um			6.3Msz	
	N 17s		6.20um				
	E 17s		3.40um				
			PP	23	28.00		
			SS	40	46.00		
CTA	129.55	252	iPKPd	21	19.00	0.0	
	1.2s		36.72nm				
TIY	129.59	342	PKPd	21	19.20	0.6	
	Z 20s		8.80um			6.5Msz	
	N 18s		5.30um				
			PKS	24	55.50		
GTA	130.45	355	ePKP	21	20.40	0.1	
	Z 20s		20.10um			6.8Msz	
	N 19s		12.10um				
			SKKS	30	32.00		
QUE	131.74	33	ePKP	21	23.80	0.7	
			e	24	50.80		
SSE	131.79	329	PKPd	21	23.00	0.1	
	8.0s		800.00nm				
	Z 20s		8.40um			6.4Msz	
	N 16s		2.50um				
	E 16s		2.60um				
			sPKP	21	40.50		
			iPKS	24	50.00		
NJ2	132.13	332	PKPc	21	24.00	0.5	
	Z 24s		3.80um			6.0MszX	
	N 16s		1.80um				
	E 16s		3.20um				
			PKS	24	52.00		
LZH	133.21	350	PKPc	21	26.50	0.8	
	6.0s		1780.00nm				
	Z 22s		12.70um			6.6Msz	
	N 21s		15.80um				
XAN	134.03	344	PKP	21	27.50	0.3	
	N 18s		10.20um				
	E 18s		4.80um				
			PKS	24	58.00		
ANP	136.27	324	ePKP	21	32.00	0.3	
NDI	137.79	23	iPKPc	21	35.00	0.6	
			ePP	24	24.00		
			ePKS	25	10.00		
			ePPP	27	28.00		
			ePPS	36	42.00		
CD2	138.26	348	ePKP	21	35.00	-0.3	
	6.5s		1000.00nm				
	Z 20s		12.10um			6.6Msz	
	N 20s		10.60um				
			iPKS	25	11.00		
LSA	140.20	5	PKP	21	40.80	1.5	
	Z 20s		12.50um			6.7Msz	
	N 15s		2.17um				
	E 16s		4.10um				
ASPA	140.42	245	ePKP	21	31.70	-7.6X	
			iSKP	25	14.90		
WB2	140.69	251	iPKPc	21	33.10	-6.8X	
	0.7s		9.90nm				
WRA	140.70	251	PKP	21	31.00	-8.9X	
	1.6s		6.10nm				
GKN	140.79	14	PKP	21	33.46	-6.6X	
KKN	141.15	14	PKP	21	34.72	-6.1X	
GUN	141.16	13	PKP	21	34.54	-6.4X	
DMN	141.28	14	PKP	21	36.46	-4.6X	
PKI	141.39	13	PKP	21	36.42	-4.9X	
GYA	141.81	343	PKPd	21	38.00	-3.9X	
	Z 36s		3.10um			5.8MszX	
	N 20s		6.60um				
	E 20s		3.00um				
			PKS	25	20.00		
GZH	142.29	331	PKPd	21	39.00	-3.6X	
	9.0s		2200.00nm				
	Z 24s		2.90um			6.0MszX	
	E 18s		9.30um				
			PP	24	49.00		
HKC	142.56	330	ePKP	21	38.00	-5.1X	
BAG	143.29	316	ePKP	21	39.00	-5.7X	
BOM	143.87	37	ePKP	21	43.50	-1.9	
			ePP	25	20.00		
KMI	144.08	348	PKPc	21	42.00	-3.9X	
	5.0s		1100.00nm				
			PP	25	06.00		
QCP	144.15	313	ePKP	21	42.00	-3.9X	
SHL	144.36	5	iPKP	21	42.50	-3.8X	
POO	144.76	36	iPKPd	21	45.00	-2.0	
DAV	144.90	298	ePKP	21	47.00	-0.3	
CGP	144.97	301	ePKPc	21	48.00	0.6	
	1.0s		13.50nm				
PGP	144.98	312	ePKPd	21	47.00	-0.4	
	1.0s		23.00nm				
WARB	145.96	238	ePKP	21	49.00	0.2	
	0.6s		25.00nm				
QIZ	147.42	333	PKP	21	52.50	1.2	
	N 22s		8.10um				
	E 18s		2.30um				
			PP	25	21.00		
			PKS	25	23.00		
HYB	148.22	31	ePKPc	21	52.00	-0.7	
	1.0s		90.00nm				
PPR	149.03	309	ePKPd	22	00.00	6.0X	
	1.0s		10.00nm				
NWAO	149.36	219	ePKP	21	55.00	1.0	
	Z 20s		4.00um			6.2Msz	
	N 20s		2.10um				
	E 20s		3.50um				
KLB	149.90	222	ePKP	21	53.00	-1.9	
MUN	150.63	219	ePKP	21	56.00	0.1	
	0.7s		128.00nm				
	Z 20s		3.70um			6.2Msz	
GBA	150.75	36	PKPd	21	57.50	1.0	
	1.0s		56.90nm				
CHG	150.91	352	iPKPc	21	57.00	0.3	
	1.1s		56.96nm				
LOE	151.76	346	ePKP	21	59.20	1.2	
BDT	152.44	351	ePKP	22	00.00	1.1	
	1.0s		88.30nm				
KOD	153.38	41	ePKP	22	03.00	2.2	
			ePP	25	46.00		
NST	153.79	348	ePKP	22	06.00	5.1X	
NNT	156.86	348	ePKP	22	07.00	2.0	
	S.D. = 1.1		on 300 of 366 obs.				

? MAR 16, 1991 06h 11m 55.38± 0.96s
42.690 N ± 7.4km 13.027 E ± 7.7km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)
MD 2.3 (SSO).

MNS	0.40	220	P	12	03.50	-0.1
			eSg	12	09.00	
ALP	0.41	77	ePg	12	03.97	0.1
			iSg	12	09.91	
ASS	0.47	325	P	12	05.00	0.1
			eSg	12	12.00	
CIO	0.51	10	ePg	12	05.61	-0.2
			iSg	12	14.04	
	S.D. = 0.2		on 4 of 4 obs.			

MAR 16, 1991 06h 41m 07.07± 0.80s
41.528 N ± 9.4km 19.672 E ± 9.0km
DEPTH = 10.0km (geophysicist)
ALBANIA (391)
ML 3.1 (TTG). MD 2.9 (THE).

ULC	0.54	324	iPgd	41	17.05	-0.9
			iSg	41	25.50	
OHR	0.95	116	iPg	41	24.30	-0.8
			iSg	41	40.10	
			LR	41	45.00	
TTG	0.95	341	iPgd	41	24.37	-0.8
			iSg	41	40.63	
BDV	0.98	320	iPgd	41	25.23	-0.5
			iSg	41	39.77	
PVY	1.09	12	iPgd	41	20.22	-7.4X
			iSg	41	46.72	
HCY	1.27	317	iPgc	41	29.83	-0.8
			iSg	41	49.17	
IVA	1.35	7	iPgc	41	32.55	0.5
			iSg	41	55.72	
NKY	1.38	339	iPgd	41	33.06	0.7
			iSg	41	54.35	
SKO	1.40	71	iPn	41	34.50	1.9
			iSg	41	56.40	
BRY	1.61	329	iPnd	41	35.87	0.2
			iSn	41	59.57	
PLE	1.81	354	iPnd	41	40.53	1.9
			iSn	42	06.17	
IGT	2.06	166	iPc	41	43.82	1.7
VAY	2.19	94	ePn	41	41.00	-3.0
KNT	2.46	97	ePd	41	48.26	0.4

16d 06h

```
LIT      2.57 123 iPd    41 48.74   -0.7
                  iS     42 21.66
THE      2.65 109 iPc    41 49.98   -0.5
SRS      2.98  97 ePd    41 55.30    0.0
PAIG     3.44 116 iPc    42 02.50    0.7
      S.D. = 1.3  on  17 of  18 obs.
-------------------------------------------
   MAR  16, 1991  06h 44m 53.59± 0.82s
   41.565 N ± 8.1km   19.660 E ± 8.9km
   DEPTH =  10.0km  (geophysicist)
 ALBANIA                            (391)
      ML 2.9 (TTG).

ULC      0.50 322 iPgd   45 02.44   -1.3
                  iSg    45 11.89
TTG      0.91 341 iPgd   45 11.14    0.1
                  iSg    45 26.24
BDV      0.95 319 iPgc   45 10.69   -1.0
                  iSg    45 24.86
OHR      0.97 117 iPgc   45 09.80   -2.3
                  iSg    45 25.50
PVY      1.06  13 iPgd   45 14.88    1.3
                  iSg    45 33.11
HCY      1.24 316 iPgc   45 15.58   -1.0
                  iSg    45 34.53
IVA      1.32   8 iPgd   45 18.68    0.7
                  iSg    45 41.71
NKY      1.34 339 iPgd   45 18.66    0.3
                  iSg    45 39.91
SKO      1.39  72 iPn    45 20.00    1.0
                  iSg    45 41.50
BRY      1.57 329 iPnd   45 21.58   -0.1
                  iSn    45 45.14
PLE      1.77 354 iPnc   45 25.81    1.2
                  iSn    45 51.73
KEK      1.85 177 ePn    45 28.50    2.8
KZN      2.03 127 ePn    45 27.30   -1.1
                  eSn    45 54.20
VAY      2.20  95 ePn    45 30.00   -0.7
      S.D. = 1.5  on  14 of  14 obs.
-------------------------------------------
%  MAR  16, 1991  06h 51m 52.07± 0.43s
   40.334 N ± 5.7km   28.203 E ± 3.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)

KCT      0.15 126 iPg    51 55.50    0.0
BNT      0.22 276 iPg    51 56.00   -0.8
                  iSg    51 59.50
EDC      0.26 273 iPg    51 57.50   -0.1
KGT      0.70 280 iPg    52 06.00    0.2
DST      0.80 156 iPg    52 07.00   -0.6
                  iSg    52 18.80
YLV      0.92  75 iPg    52 09.50   -0.2
IZI      0.97  89 iPg    52 11.00    0.4
                  iSg    52 24.00
ISK      0.98  41 ePg    52 10.50   -0.1
                  eSg    52 24.50
HRT      1.22  66 iPn    52 15.00    0.2
DMK      1.52 347 iPn    52 19.20   -0.1
EZN      1.53 251 ePn    52 20.50    1.1
      S.D. = 0.6  on  11 of  11 obs.
-------------------------------------------
%  MAR  16, 1991  06h 54m 27.31± 0.67s
   40.344 N ± 9.2km   28.216 E ± 4.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)

KCT      0.14 131 iPg    54 30.40   -0.3
BNT      0.23 273 iPg    54 32.50    0.3
                  iSg    54 36.50
EDC      0.27 271 ePg    54 33.00    0.0
                  eSg    54 37.50
KGT      0.71 279 iPg    54 41.00   -0.2
CTT      0.82  11 ePg    54 43.00   -0.2
                  iSg    54 54.00
IZI      0.96  90 ePg    54 46.00    0.4
                  eSg    54 58.00
      S.D. = 0.4  on   6 of   6 obs.
-------------------------------------------
*  MAR  16, 1991  08h 22m 04.81± 0.99s
   64.053 N ± 8.3km  148.815 W ±14.5km
   DEPTH =  33.0km  (normal)
 CENTRAL ALASKA                     (  1)
      ML 3.0 (PMR).

FBA      0.96  27 eP     22 22.90    1.0
TOA      2.30 147 eP     22 42.60    1.4
PMR      2.47 184 eP     22 42.20   -1.4
IMA      2.89 317 eP     22 50.00    0.4
KLU      2.89 151 eP     22 50.00    0.3
TTA      3.42 254 eP     23 07.50   10.4X
SVW      4.32 230 eP     23 19.90   10.1X
INK      7.51  49 eP     23 53.00   -1.6
      S.D. = 1.6  on   6 of   8 obs.
-------------------------------------------
*  MAR  16, 1991  08h 28m 02.17± 0.53s
   10.140 S ± 8.0km  119.192 E ±10.0km
   DEPTH =  33.0km  (normal)
   3.8mb (  4 obs.)
 SUMBA ISLAND REGION                (287)

MBL     10.97 177 eP     30 40.20    0.2
        0.3s      4.00nm          5.1mb X
                  eS     32 30.00
MTN     12.01 104 eP     30 53.00   -1.0
                  eS     32 58.00
NANU    12.84 195 eP     31 04.00   -1.1
                  eS     33 18.00
WARB    17.45 157 eP     32 06.00    1.3
        0.4s      2.00nm          3.6mb
                  eS     35 12.00
WB2     17.57 125 eP     32 06.80    0.4
        0.4s      2.90nm          3.8mb
                  eS     35 08.80
ASPA    19.44 136 eP     32 32.60    3.5X
        1.1s      5.90nm          3.8mb
GUN     49.70 320 P      36 54.00    0.3
        0.7s     17.00nm          5.2mb X
PKI     49.76 320 P      36 53.80   -0.4
DMN     49.98 320 P      36 56.00    0.2
KKN     50.00 320 P      36 56.20    0.4
GKN     50.56 320 P      36 59.80   -0.2
        0.5s      7.00nm          4.9mb
      S.D. = 0.8  on  10 of  11 obs.
-------------------------------------------
   MAR  16, 1991  08h 39m 16.93± 0.54s
   41.088 N ± 4.9km   22.491 E ± 4.9km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                         (383)
      ML 2.4 (SKO). MD 2.3 (THE).

GRG      0.15 207 iPg    39 20.17   -0.2
                  eS     39 23.00
VAY      0.24  14 iPg    39 21.50   -0.5
                  iSg    39 24.60
KNT      0.32  76 iPd    39 23.64    0.1
THE      0.58 142 ePg    39 28.08   -0.6
SRS      0.83  88 ePg    39 32.88   -0.2
LIT      0.99 180 ePg    39 36.00    0.3
                  iS     39 50.16
SKO      1.18 319 ePg    39 40.00    1.0
                  eSg    39 55.00
OHR      1.28 272 ePg    39 40.00   -0.7
                  eSg    39 57.00
PAIG     1.47 142 ePg    39 44.20    0.7
                  eS     40 03.60
      S.D. = 0.7  on   9 of   9 obs.
-------------------------------------------
%  MAR  16, 1991  09h 25m 48.73± 0.87s
   39.108 N ± 7.2km   27.607 E ± 9.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)

IZM      0.76 201 iPg    26 03.50   -0.1
                  eSg    26 14.50
DST      0.93  58 ePn    26 06.80    0.2
EZN      1.22 306 ePn    26 11.60    0.1
BNT      1.27  11 iPn    26 11.90   -0.4
KGT      1.36 350 ePn    26 13.90    0.2
      S.D. = 0.4  on   5 of   5 obs.
-------------------------------------------
?  MAR  16, 1991  09h 37m 40.25± 3.72s
   39.578 N ±27.2km   29.491 E ±19.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)

DST      0.67 273 ePg    37 52.80   -0.8
                  eSg    38 03.80
IZI      0.76 359 iPg    37 54.40   -0.7
YLV      0.99 355 iPn    37 58.90   -0.2
EYL      1.11  27 iPn    38 01.40    0.2
BNT      1.44 303 iPn    38 07.40    1.1
CTT      1.77 333 ePn    38 11.40    0.4
      S.D. = 0.9  on   6 of   6 obs.
-------------------------------------------
%  MAR  16, 1991  09h 59m 45.38± 3.18s
   40.810 N ±10.5km   30.285 E ±23.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)

EYL      0.26 202 iPg    59 50.90   -0.1
HRT      0.47 272 iPg    59 54.90    0.0
                  eSg    00 03.40
YLV      0.74 251 iPn    59 59.40   -0.5
IZI      0.78 233 iPg    00 00.90    0.3
CTT      1.44 284 iPn    00 12.40    0.8
DMK      2.16 299 ePn    00 21.30   -0.5
      S.D. = 0.7  on   6 of   6 obs.
-------------------------------------------
?  MAR  16, 1991  11h 58m 08.02± 5.41s
   23.216 N ±17.8km  120.071 E ±36.2km
   DEPTH =  10.0km  (geophysicist)
 TAIWAN                             (244)

TWK      0.39  82 iPd    58 16.20    0.2
                  eS     58 22.60
TWG      1.00 113 ePc    58 27.10    0.1
                  eS     58 42.70
TWF1     1.14  83 ePd    58 28.90   -0.4
TWO      1.27  33 eP     58 31.60    0.1
      S.D. = 0.5  on   4 of   4 obs.
-------------------------------------------
?  MAR  16, 1991  12h 00m 41.93± 7.06s
   16.441 N ±83.1km  100.138 W ±48.8km
   DEPTH =  33.0km  (normal)
   3.2mb (  1 obs.)
 NEAR COAST OF GUERRERO, MEXICO     (.58)

ACX      0.50  32 iP     00 51.00   -1.6
                  iS     00 59.00
III      2.03  18 iP     01 15.00    0.3
                  iS     01 40.00
CRX      2.98   8 (P)    01 35.00    6.7X
PPM      2.98  29 iP     01 28.50    0.0
                  iS     02 05.00
IIT      3.10  34 iP     01 31.00    1.0
MRX      3.40 343 (P)    01 47.00   13.1X
                  (S)    02 20.00
YKA     47.11 351 eP     09 12.30   -0.2
        0.4s      0.10nm          3.2mb
      S.D. = 1.4  on   5 of   7 obs.
-------------------------------------------
*  MAR  16, 1991  12h 14m 40.59± 0.63s
    7.169 S ±12.8km   67.909 E ±11.2km
   DEPTH =  10.0km  (geophysicist)
   4.6mb (  7 obs.)
 MID-INDIAN RISE                    (429)

KOD     19.73  29 eP     19 13.40   -0.6
                  eS     23 00.00
GBA     22.70  25 Pd     19 44.00    0.2
        1.4s     16.60nm          4.3mb
HYB     26.60  23 eP     20 22.00    0.9
QUE     37.15 359 eP     21 57.50    3.8X
DMN     38.37  25 P      22 05.60    1.5
PKI     38.46  25 P      22 03.80   -1.2
GKN     38.52  24 P      22 06.60    1.4
KKN     38.60  25 P      22 03.40   -2.6
GUN     38.96  26 P      22 09.80    0.6
CHTO    40.04  49 P      22 18.50    0.7
BCAO    50.60 282 iPc     23 42.40    0.2
        1.0s     15.00nm          4.9mb
                  id     23 49.70
VRI     64.34 329 ePd     25 18.00   -0.7
WRA     65.46 109 P       25 26.00   -0.5
        0.8s      2.70nm          4.5mb
WB2     65.47 109 iPc     25 26.40   -0.2
        0.7s      3.10nm          4.6m
                  iPP     25 33.20
SPC     69.82 329 eP      25 57.10    3.6X
SRO     70.00 327 eP      25 54.80    0.4
ZST     70.89 327 eP      26 05.40    5.6X
KHC     73.35 326 eP      26 14.50    0.1
BRG     74.10 328 eP      26 18.40   -0.3
        1.0s     10.00nm          4.8mb
CLL     74.84 328 iPd     26 31.20    8.2X
        1.5s     20.00nm          4.9mb
GRF     74.95 326 eP      26 24.30    0.6
     Z  23s      0.05um          3.7MszX
                  e      26 32.00
```

NUR	75.53	340	eP	26 26.00	-0.8
KAF	76.14	341	eP	26 30.00	-0.2
HFS	79.45	336	ePKP	26 48.10	-0.4
	0.5s		1.50nm	4.3mb	
SOD	79.97	345	eP	26 48.00	-3.1X
INK	117.29	9	ePKP	33 25.00	-2.4
YKA	124.76	1	ePKP	33 40.90	-0.9
	0.6s		0.70nm		
WDC	145.45	14	ePKPc	34 21.00	0.1
MIN	145.89	13	ePKP	34 22.40	0.6
ORV	146.66	13	e(PKP)	34 24.10	1.2
TUL	147.73	335	e(PKP)	34 26.80	2.1
CMB	148.37	13	ePKP	34 30.40	4.6X
FRI	149.51	12	ePKPc	34 33.50	6.0X
PRI	150.12	14	e(PKP)	34 35.80	7.2X
	S.D. = 1.1		on 26 of 34 obs.		

? MAR 16, 1991 12h 41m 11.48± 4.31s
31.180 S ±76.1km 69.010 W ±46.9km
DEPTH = 100.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTCB	0.35	150	iPd	41 26.90	0.2
			eS	41 38.00	
ZON	0.46	142	iPd	41 27.00	-0.3
			eS	41 39.00	
RTLL	0.49	108	iPc	41 27.40	0.0
			eS	41 39.00	
CFA	0.78	123	ePd	41 30.10	0.1
			eS	41 44.80	
	S.D. = 0.4		on 4 of 4 obs.		

• MAR 16, 1991 12h 51m 44.96± 1.33s
16.421 S ±10.6km 175.947 W ±13.6km
DEPTH = 388.9 ± 12.0 km
4.8mb (6 obs.)
TONGA ISLANDS (173)

VUN	5.57	253	iPd	53 13.60	0.5
SVA	5.60	252	ePd	53 14.00	0.6
SGE	5.98	258	iPc	53 17.80	0.1
DZM	17.54	249	iPc	55 25.60	-0.9
PUZ	22.17	192	eP	56 12.20	1.1
WLZ	22.61	198	P	56 17.00	1.8
NOZ	22.74	192	eP	56 16.70	0.3
MNG	25.23	195	eP	56 37.00	-2.1
	0.3s		7.00nm	4.5mb	
THZ	27.02	199	eP	56 54.60	-0.6
KHZ	27.43	197	eP	56 57.90	-0.8
LTZ	28.14	199	P	57 03.40	-1.6
BRS	30.92	244	iPc	57 29.00	-0.4
COO	32.55	239	iPc	57 44.30	0.9
CNB	36.19	232	iPc	58 15.10	1.1
	0.5s		36.00nm	5.0mb	
CMS	37.80	240	iPc	58 28.00	0.8
TOO	39.93	231	iPc	58 46.00	1.4
	0.8s		46.00nm	4.8mb	
WB2	47.22	258	iPc	59 41.50	-1.0
	0.6s		68.30nm	5.1mb	
FORR	52.74	244	iPc	00 23.00	-0.7
WARB	54.00	249	iPd	00 32.70	-0.2
	0.5s		30.00nm	4.9mb	
COOL	58.72	244	eP	01 04.70	-1.1
MBL	60.63	255	eP	01 18.10	-0.6
MEKA	61.23	248	eP	01 21.50	-1.2
KLB	61.59	243	eP	01 24.30	-0.7
BAL	62.55	244	eP	01 30.50	-0.7
MUN	62.89	242	eP	01 33.60	0.2
TNP	77.26	44	P	02 57.20	-1.9
PNT	82.20	33	eP	03 24.00	-0.6
	0.7s		6.00nm	4.5mb	
ANMO	83.34	51	P	03 30.50	-0.4
FBA	83.87	12	iP	03 31.00	-1.6
ILT	84.11	359	eP	03 32.50	-1.1
SES	87.44	35	ePc	03 49.40	-1.0
CHTO	90.72	289	P	04 06.80	0.6
KSP	144.28	347	iPKPc	10 34.80	-1.8
CLL	144.47	350	iPKPd	10 35.30	-1.6
	0.9s		13.00nm		
MOX	145.32	352	iPKPd	10 38.50	0.1
PRU	145.46	348	PKPc	10 38.80	0.2
DOU	146.41	359	PKP	10 41.20	1.1
KHC	146.46	349	ePKP	10 42.00	1.7
FLN	147.53	6	ePKP	10 44.40	2.4
	0.5s		7.30nm		
LDF	147.73	5	ePKP	10 44.70	2.4
	0.5s		5.10nm		
GRR	147.87	6	ePKP	10 45.30	2.8
	0.6s		12.65nm		
CDF	147.99	356	ePKP	10 46.00	3.2X
	0.8s		10.75nm		
LPF	148.20	6	ePKP	10 46.40	3.4X
	0.6s		11.70nm		
HAU	148.45	357	ePKP	10 47.20	3.7X
	0.8s		5.35nm		
KBA	148.47	348	ePKP	10 46.50	2.7
	0.6s		2.90nm		
BSF	148.60	356	ePKP	10 47.30	3.5X
LOR	149.24	0	ePKP	10 49.10	4.4X
	0.7s		6.60nm		
SSF	149.44	1	ePKP	10 49.80	4.8X
	0.8s		6.70nm		
LBF	149.52	0	ePKP	10 49.90	4.7X
	0.6s		6.30nm		
AVF	149.71	1	ePKP	10 50.10	4.7X
	0.5s		2.20nm		
SMF	149.86	0	ePKP	10 50.80	5.1X
	0.6s		4.05nm		
BGF	149.93	2	ePKP	10 50.70	4.9X
	0.5s		4.75nm		
TCF	150.18	3	ePKP	10 51.20	5.0X
LSF	150.18	4	ePKP	10 50.90	4.7X
	1.0s		18.00nm		
MAF	150.26	2	ePKP	10 51.70	5.4X
	0.8s		6.70nm		
LPL	150.91	356	ePKP	10 54.00	6.4X
	1.0s		9.00nm		
LPG	150.92	356	ePKP	10 54.10	6.4X
	1.0s		10.00nm		
CAF	151.53	3	ePKP	10 54.70	6.5X
	0.6s		9.00nm		
LPO	151.72	4	ePKP	10 55.00	6.5X
	0.7s		6.60nm		
	S.D. = 1.4		on 42 of 59 obs.		

MAR 16, 1991 13h 42m 45.43± 0.55s
41.096 N ± 5.6km 22.433 E ± 4.5km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 3.2 (SKO). MD 3.0 (THE). Felt (IV) in the Gevgelija oreo.

GRG	0.14	190	iPc	42 49.60	0.8
			eS	42 55.80	
VAY	0.25	25	iPg	42 50.60	-0.1
			iSg	42 53.70	
KNT	0.36	79	iPc	42 52.96	0.2
THE	0.61	139	iPd	42 57.24	-0.6
SOH	0.75	111	iP	42 59.74	-0.4
FNA	0.86	249	ePc	43 02.40	0.4
SRS	0.88	88	ePc	43 02.00	-0.3
LIT	1.00	177	ePc	43 05.08	0.8
			eS	43 18.72	
SKO	1.15	320	iPgd	43 07.20	0.3
			iSg	43 22.00	
OHR	1.24	271	ePg	43 09.00	0.6
			iSg	43 25.80	
			LR	43 33.20	
PAIG	1.51	140	ePd	43 13.36	0.9
			eS	43 34.00	
AGG	2.07	182	iP	43 26.60	5.9X
IGT	2.24	226	iPc	43 20.56	-2.6
	S.D. = 1.0		on 12 of 13 obs.		

& MAR 16, 1991 14h 15m 29.30s
60.016 N 153.528 W
DEPTH = 149.3km
SOUTHERN ALASKA (2)
<AEIC>.

PDB	0.41	236	eP	15 49.37	0.6
RED	0.55	43	eP	15 50.52	-0.7
RS2	0.59	40	eP	15 50.89	-0.7
RSO	0.59	40	eP	15 51.27	-0.3
			eS	16 06.43	
NCT	0.62	28	eP	15 50.76	-0.9
			S	16 06.98	
RDN	0.63	37	eP	15 51.03	-0.7
REF	0.63	41	eP	15 51.00	-0.8
AUE	0.66	173	iP	15 50.78	-0.9
AUI	0.68	176	eP	15 50.99	-0.9
			eS	16 07.28	
RDT	0.79	44	eP	15 51.78	-0.9
HOM	1.02	110	eP	15 53.66	-0.7
			eS	16 12.59	
XLV	1.07	121	eP	15 53.51	-1.4
CDD	1.09	183	eP	15 53.85	-1.3
			eS	16 12.89	
NNL	1.12	88	eP	15 55.49	0.1
CNPM	1.26	112	iP	15 55.40	-1.3
			eS	16 15.17	
CKL	1.32	26	iP	15 56.85	-0.6
NKA	1.35	56	iP	15 58.21	0.7
BRLK	1.36	100	iP	15 56.51	-1.2
			eS	16 16.41	
BGL	1.37	24	eP	15 57.54	-0.4
SPU	1.38	31	iP	15 56.98	-0.9
SYI	1.53	157	eP	15 57.16	-2.2
			eS	16 19.24	
NCG	1.55	25	eP	15 59.36	-0.4
SLKM	1.72	72	eP	16 00.21	-1.4
SUA	2.00	42	eP	16 03.52	-1.3
SEW	2.05	86	eP	16 03.75	-1.5
SKT	2.20	25	eP	16 06.03	-1.1
PMS	2.31	56	eP	16 06.72	-1.8
GHO	2.86	50	eP	16 12.21	-3.2
KNK	2.86	58	eP	16 12.74	-2.7
CUT	2.87	32	eP	16 13.82	-1.6
KNIM	2.91	81	eP	16 13.56	-2.5
MTU	2.95	88	eP	16 14.96	-1.6
VZW	3.60	70	eP	16 23.08	-1.9
VLZ	3.72	69	eP	16 25.10	-1.4
KLU	4.02	65	eP	16 27.49	-3.0
	35 obs. associated				

% MAR 16, 1991 14h 27m 42.43± 1.24s
40.758 N ±11.9km 28.933 E ± 9.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ISK	0.32	17	iPg	27 48.80	-0.3
			iSg	27 51.80	
YLV	0.39	120	ePn	27 50.00	-0.4
CTT	0.54	316	ePg	27 53.00	-0.4
HRT	0.56	83	iPg	27 54.30	0.4
			eSg	28 02.30	
DMK	1.38	321	ePn	28 08.40	0.7
	S.D. = 0.7		on 5 of 5 obs.		

& MAR 16, 1991 14h 42m 55.26s
60.898 N 150.557 W
DEPTH = 52.6km
KENAI PENINSULA, ALASKA (14)
<AEIC>.

NKA	0.37	245	iPc	43 06.54	1.2
SLKM	0.42	157	iPd	43 05.63	-0.3
			eS	43 13.78	
SUA	0.58	351	iPd	43 07.31	-0.5
			eS	43 17.35	
PMS	0.60	54	ePd	43 07.72	-0.3
SPU	0.78	292	iPc	43 09.73	-0.6
			iS	43 21.38	
PWA	0.82	23	iPc	43 10.55	-0.3
CRP	0.86	296	iPc	43 11.07	-0.4
			eS	43 23.68	
CKL	0.92	290	iPc	43 11.60	-0.6
NCG	0.93	304	iPc	43 11.82	-0.5
			eS	43 25.08	
NNL	0.93	203	iPc	43 12.76	0.4
BGL	0.96	293	iPc	43 12.18	-0.7
			eS	43 25.85	
RDT	0.97	251	iPc	43 11.93	-0.9
			eS	43 25.44	
SEW	0.97	145	eP	43 11.49	-1.3
PLRM	0.98	44	iPc	43 12.11	-0.8
			eS	43 25.20	
REF	1.13	250	iPc	43 14.37	-0.9
KNK	1.14	62	iPc	43 14.44	-0.8
			eS	43 29.29	
BRLK	1.15	188	ePd	43 14.41	-0.9
			eS	43 29.72	
RDN	1.15	251	iPc	43 14.36	-1.1
			eS	43 30.05	
RSO	1.17	249	iPc	43 14.85	-0.9
			eS	43 29.74	
RS2	1.17	249	iPc	43 14.93	-0.8
			eS	43 30.52	
GHO	1.18	41	iPc	43 14.95	-0.8
SKT	1.18	337	iPd	43 15.27	-0.5
			eS	43 31.28	

16d 14h

RED	1.19	247	iPc	43 15.10	-0.9
			eS	43 30.94	
NCT	1.21	255	iPc	43 15.43	-0.9
HOM	1.36	204	eP	43 18.45	0.3
CNPM	1.42	194	ePd	43 18.10	-1.0
			eS	43 35.50	
KNIM	1.50	110	iPc	43 17.69	-2.4
CUT	1.52	5	eP	43 20.06	-0.4
GLI	1.69	89	iPc	43 20.45	-2.5
MTU	1.71	121	ePc	43 21.19	-1.9
VZW	1.96	84	ePc	43 24.50	-2.2
VLZ	2.07	82	ePc	43 26.33	-1.8
PDB	2.12	240	eP	43 27.60	-1.3
KLU	2.32	73	iPc	43 29.89	-2.0
CDD	2.51	220	eP	43 33.54	-0.9
RND	2.64	17	eP	43 37.37	1.0
TZL	2.72	63	ePc	43 35.87	-1.5
PAX	3.18	47	eP	43 42.63	-1.4
GLB	3.31	78	ePc	43 43.24	-2.7
TGL	3.79	89	eP	43 49.00	-3.6

40 obs. ossociated

MAR 16, 1991 15h 26m 38.10± 0.80s
35.313 N ± 7.3km 23.402 E ± 4.6km
DEPTH = 40.2 ± 8.7 km
3.8mb (15 obs.)
CRETE (370)
MD 4.2 (HLW), 3.7 (THE).

VLI	1.45	345	eP	27 04.00	1.8
NPS	1.81	91	eP	27 14.50	7.2X
ATH	2.67	5	eP	27 20.50	1.0
			eS	27 46.20	
VLS	3.64	323	eP	27 34.00	0.5
AGG	3.80	347	ePd	27 36.80	1.1
YER	4.34	64	ePn	27 45.00	1.5
PAIG	4.61	3	iP	27 46.80	-0.4
LIT	4.83	352	iP	27 49.56	-0.8
			eS	28 35.60	
IGT	4.87	331	ePd	27 50.30	-0.5
			eS	28 41.30	
KZN	5.15	346	iPc	27 55.00	0.2
KEK	5.24	328	eP	27 55.00	-1.1
THE	5.32	356	ePd	27 57.10	0.0
ELL	5.46	73	iPn	28 01.50	2.2
GRG	5.69	352	ePd	28 01.76	-0.6
			eS	28 59.24	
FNA	5.69	344	ePd	28 01.20	-1.2
KHL	5.76	57	ePn	28 04.70	1.3
SRS	5.80	1	ePc	28 03.76	-0.1
KNT	5.85	356	ePd	28 04.68	0.0
KGT	5.99	30	ePn	28 04.60	-1.9
VAY	6.03	354	ePn	28 07.40	0.2
OHR	6.14	341	ePn	28 05.20	-3.6X
SOI	6.51	297	P	28 14.80	0.9
			eSn	29 20.00	
LCI	6.61	321	P	28 12.70	-2.6
TDS	7.09	310	P	28 22.10	0.0
ORI	7.27	313	P	28 24.30	-0.2
BRT	7.40	321	P	28 24.70	-1.6
			eSn	29 38.30	
MGR	7.86	310	P	28 32.30	-0.5
SGO	8.26	312	P	28 37.90	-0.4
KOT	8.90	125	ePn	28 48.50	1.3
			eSn	30 13.00	
MML	10.39	103	eP	29 06.20	-1.5
JVI	10.52	105	eP	29 08.10	-1.3
RMN	10.58	114	eP	29 09.80	-0.6
ALP	10.67	317	eP	29 10.72	-0.8
PRNI	10.94	114	eP	29 14.50	-0.6
ASS	11.37	316	P	29 21.00	0.0
ARV	11.49	318	P	29 21.10	-1.5
SFI	12.37	317	P	29 35.50	1.2
LPG	16.23	314	eP	30 27.80	2.8X
BSF	17.58	320	eP	30 42.20	0.4
	0.5s		1.45nm		3.4mb
CDF	17.72	323	eP	30 45.50	2.2
	0.5s		1.45nm		3.4mb
HAU	17.93	320	eP	30 46.40	0.5
	0.5s		1.45nm		3.4mb
SMF	18.55	314	eP	30 54.20	0.6
	0.5s		2.20nm		3.6mb
LBF	18.65	315	eP	30 54.70	-0.1
	0.6s		4.50nm		3.8mb
LOR	18.87	315	eP	31 01.10	3.6X
	0.6s		1.80nm		3.5mb
SSF	18.97	314	eP	30 58.00	-0.6
	0.6s		2.70nm		3.6mb
EPF	19.43	300	eP	31 10.80	6.8X
	0.8s		4.05nm		3.7mb
DOU	20.15	323	P	31 11.80	0.4
	0.4s		18.60nm		4.8mb
MFF	20.98	310	eP	31 21.30	1.3
	0.5s		5.10nm		4.1mb
LDF	21.85	315	eP	31 29.10	0.3
	0.5s		4.35nm		4.1mb
LPF	22.13	313	eP	31 32.40	0.8
	0.5s		5.85nm		4.3mb
FLN	22.14	315	eP	31 32.30	0.6
	0.5s		7.30nm		4.4mb
GRR	22.18	314	eP	31 33.40	1.3
	0.5s		4.35nm		4.1mb
HFS	25.62	349	eP	32 03.20	-2.0
	0.4s		0.50nm		3.4mb
GKN	51.92	80	P	35 45.02	-0.3
	0.4s		6.00nm		4.9mb X
DMN	52.46	80	P	35 49.56	0.0
KKN	52.53	80	P	35 49.46	-0.5
PKI	52.72	80	P	35 51.06	-0.5
GUN	52.96	79	P	35 53.14	-0.2
	0.3s		7.00nm		5.1mb X

S.D. = 1.1 on 53 of 58 obs.

• MAR 16, 1991 17h 02m 04.37± 0.67s
3.114 S ± 9.0km 133.844 E ±17.9km
DEPTH = 33.0km (normal)
4.5mb (7 obs.)
WEST IRIAN REGION (196)

MTN	10.04	195	eP	04 28.00	-1.4
	0.3s		205.00nm		6.9mb X
WB2	16.73	178	eP	05 56.20	-1.8
	0.5s		11.70nm		4.3mb
			i	06 01.60	
QIS	18.22	162	iPc	06 18.30	1.7
ASPA	20 43	180	iPd	06 42.70	0.9
	0.5s		115.60nm		5.5mb
			iS	10 25.60	
CTA	20.77	145	iPd	06 46.10	0.9
			iS	10 41.00	
QCP	21.70	325	eP	06 58.00	3.3X
MBL	22.53	216	iPd	07 05.00	2.1
	0.4s		7.00nm		4.5mb
BAG	23.41	326	eP	07 13.00	1.3
WARB	23.96	196	eP	07 20.00	3.3X
	0.4s		4.00nm		4.3mb
STK	29.53	167	eP	08 27.00	18.9X
	0.7s		2.50nm		
NNT	37.30	295	eP	09 15.00	-0.5
CHG	40.67	304	eP	09 44.00	0.4
XAN	43.79	330	P	10 07.50	-1.4
TIY	45.22	336	eP	10 23.00	2.6
BJI	45.90	341	eP	10 24.00	-1.6
	1.3s		14.00nm		4.7mb
CN2	47.31	352	eP	10 38.50	1.8
LZH	48.02	327	e(P)	10 48.50	5.8X
	1.5s		17.00nm		4.9mb
HYB	58.21	293	eP	11 57.50	-0.7
GBA	58.36	288	Pc	11 58.10	-1.1
	0.6s		2.00nm		4.4mb
WMQ	62.39	324	P	12 26.00	-0.4
QUE	71.80	303	eP	13 27.40	1.1
FBA	87.87	25	(P)	14 52.00	0.5
			e	14 56.20	
INK	93.85	22	eP	15 17.00	-2.3
CNCB	150.73	133	PKP	21 58.00	7.3X
LPB	150.83	133	ePKP	21 57.00	6.3X
ZOBO	150.97	132	ePKP	21 49.00	-2.1

S.D. = 1.6 on 20 of 26 obs.

% MAR 16, 1991 18h 07m 15.37± 0.92s
18.251 N ± 7.2km 100.215 W ± 8.6km
DEPTH = 33.0km (normal)
GUERRERO, MEXICO (59)

III	0.72	80	iP	07 29.00	-0.3
			iS	07 40.00	
CRX	1.26	24	eP	07 38.00	1.0
ACX	1.42	166	eP	07 39.00	0.0
			iS	07 55.00	
UNM	1.45	42	(P)	07 40.00	0.2
PPM	1.71	61	iP	07 43.00	-0.8
			iS	08 05.00	
MRX	1.72	328	iP	07 43.00	-0.4
			iS	08 04.00	
IIT	1.96	67	iP	07 46.50	-0.7
IISM	2.79	74	iP	07 59.00	0.4
			iS	08 31.00	
OXX	3.53	109	iP	08 10.00	0.6
			iS	08 49.00	

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

MAR 16, 1991 19h 32m 26.81± 0.44s
24.765 N ± 4.2km 121.836 E ± 5.6km
DEPTH = 89.2 ± 4.3 km
4.6mb (13 obs.)
TAIWAN (244)

TWC	0.16	176	iPc	32 40.50	0.2
			eS	32 50.80	
TWZ	0.41	325	iPd	32 41.00	0.0
			eS	32 51.40	
ANP	0.51	326	iP	32 52.50	10.7X
TWD	0.72	198	iPc	32 44.70	1.1
TWO	1.03	242	iPc	32 47.20	0.0
			eS	33 01.80	
TWK	1.93	220	ePc	32 58.50	-0.2
			eS	33 23.10	
TWM1	2.32	214	ePc	33 04.90	1.0
SSE	6.33	355	Pc	33 58.00	-1.3
	1.0s		74.00nm		5.0mb
			S	35 07.00	
PIP	6.51	190	iPd	34 00.50	-1.2
CVP	7.03	180	eP	34 10.00	1.1
HKC	7.45	252	eP	34 10.50	-4.2X
NJ2	7.72	341	Pd	34 16.50	-1.9
			pP	34 21.60	
			S	35 41.50	
GZH	7.95	260	Pd	34 20.80	-0.7
WHN	8.78	313	P	34 31.00	-2.0
			pP	34 37.00	
			S	36 05.80	
GYA	13.79	280	iPc	35 41.00	1.2
			pP	35 47.80	
XAN	14.55	312	P	35 48.80	-0.7
TIY	15.19	330	eP	36 01.50	3.8X
BJI	15.96	344	eP	36 08.50	1.3
	1.5s		19.00nm		4.1mb
CD2	17.11	295	eP	36 21.20	-0.6
	0.8s		40.00nm		4.7mb
HHC	18.19	334	P	36 37.40	2.4
	1.5s		50.00nm		4.5mb
BTO	18.63	331	eP	36 41.00	0.8
LZH	19.15	310	eP	36 45.50	-0.5
	2.0s		61.00nm		4.5mb
CN2	19.22	8	P	36 46.60	0.2
MDJ	20.79	16	eP	37 02.50	-0.1
CHTO	22.05	259	P	37 17.00	1.6
GTA	23.61	314	eP	37 32.00	1.5
	1.4s		10.00nm		4.0mb
GUN	32.31	284	P	38 49.78	0.0
PKI	32.74	283	P	38 53.64	0.1
KKN	32.84	283	P	38 53.94	-0.4
DMN	33.01	283	P	38 55.88	0.1
GKN	33.40	284	P	38 58.66	-0.4
GBA	43.21	264	Pc	40 21.40	0.6
	0.9s		2.60nm		4.1mb
WRA	46.08	164	P	40 42.00	-1.6
	0.6s		13.70nm		5.0mb
WB2	46.08	164	iPc	40 42.20	-1.4
	0.7s		17.40nm		5.0mb
QIS	48.25	157	eP	41 00.00	-0.7
ASPA	49.54	165	eP	41 09.20	-1.4
	0.8s		13.40nm		5.0mb
STK	59.41	160	eP	42 40.90	18.7X
KEV	68.66	338	eP	43 18.00	-4.1X
SOD	69.38	336	eP	43 26.20	-0.3
KAF	70.95	330	iP	43 35.40	-0.7
	0.6s		3.70nm		4.4mb
NUR	72.20	329	eP	43 43.00	-0.6
INK	72.47	22	eP	43 35.00	-10.1X
MBC	72.57	13	eP	43 44.00	-1.6
NB2	77.99	332	P	44 15.70	-0.9
	1.0s		3.20nm		4.1mb
PNT	88.24	35	eP	45 11.00	1.7
WDC	91.69	43	eP	45 26.40	0.9
SES	91.78	31	eP	45 26.00	0.2
FFC	92.36	24	eP	45 27.00	-1.3
	1.3s		17.00nm		5.3mb
MIN	92.41	43	ePd	45 29.50	0.5
ORV	92.93	44	ePd	45 31.60	0.4

MHC	94.13	46	eP	45	37.60	0.7
CMB	94.53	44	ePd	45	39.40	0.7
PRS	94.89	46	e(P)	45	41.00	0.7
PRI	95.46	46	ePd	45	42.50	-0.6
FRI	95.58	45	ePd	45	43.80	0.4
TNP	96.49	43	P	45	48.20	0.4
ZOBO	167.42	50	PKP	52	26.00	1.4
LPB	167.61	50	ePKP	52	36.00	11.5X
CNCB	167.88	51	PKP	52	30.00	5.1X
			e	53	32.00	
SIV	170.86	18	(PKP)	52	26.00	0.1
S.D. = 1.0			on	52 of	60 obs.	

MAR 16, 1991 19h 39m 54.86± 0.34s
44.469 N ± 2.5km 6.922 E ± 3.2km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.2 (GEN).

FOUF	0.12	301	iPgd	39	57.51	-0.3
			e	39	58.39	
PZZ	0.13	74	P	39	58.69	0.5
			S	40	01.00	
DOI	0.23	82	P	40	00.30	0.4
			eSg	40	03.40	
STV	0.37	128	P	40	02.53	0.1
			S	40	07.25	
ENR	0.43	124	P	40	03.83	0.1
			S	40	09.18	
BHB	0.44	33	P	40	03.83	-0.1
			S	40	09.85	
RRL	0.46	348	P	40	04.58	0.3
			S	40	10.67	
ROB	0.70	104	P	40	08.37	-0.4
SBF	0.71	148	Pg	40	08.80	-0.1
			Sg	40	18.60	
RSP	0.72	19	P	40	08.58	-0.6
IMI	0.89	128	P	40	11.76	-0.3
FRF	0.93	192	Pg	40	12.40	-0.2
			Sg	40	24.40	
FIN	0.96	105	P	40	12.68	-0.5
LPL	1.06	353	Pg	40	15.20	0.3
			Sg	40	30.00	
LRG	1.09	202	Pg	40	15.20	-0.2
			Sg	40	30.40	
LMR	1.17	195	Pg	40	17.20	0.4
			Sg	40	32.20	
PGF	2.44	141	Pn	40	36.00	0.5
			Sn	41	05.00	
S.D. = 0.4			on	17 of	17 obs.	

• MAR 16, 1991 20h 00m 21.02± 2.04s
34.121 S ±17.1km 70.313 W ±10.1km
DEPTH = 142.3 ± 19.2 km
CHILE-ARGENTINA BORDER REGION (127)

PCH	0.53	341	iPc	00	42.00	0.0
TACH	0.70	312	iPc	00	43.00	0.0
			iS	00	57.50	
SAN	0.73	336	iPc	00	42.60	-0.6
			iS	00	54.60	
LNV	0.93	280	iPc	00	45.00	0.3
			i	00	55.20	
PEL	1.02	342	iPc	00	45.30	-0.3
			iS	01	01.00	
LCCH	1.23	301	iPc	00	47.50	0.0
			iS	01	06.00	
ROCH	1.29	333	iPc	00	48.10	-0.2
			iS	01	05.30	
JACH	1.45	351	iPc	00	49.60	-0.4
			iS	01	09.00	
IHA	1.56	314	iPd	00	51.30	0.4
			iS	01	11.50	
MDZ	1.74	45	iP	00	53.90	0.8
			iS	01	15.90	
RTCB	2.92	26	ePd	01	08.50	0.8
			eS	01	41.20	
CFA	3.05	35	ePc	01	09.30	-0.1
			eS	01	44.00	
RTLL	3.19	30	ePd	01	11.00	-0.1
			eS	01	47.40	
TCA	5.56	62	ePc	01	42.20	-0.6
S.D. = 0.5			on	14 of	14 obs.	

• MAR 16, 1991 21h 10m 35.48± 0.79s
37.053 N ± 8.6km 29.502 E ± 6.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ELL	0.45	133	iPg	10	44.50	-0.1
BCK	0.96	65	iPn	10	54.00	0.2
YER	0.98	275	ePn	10	54.00	-0.1
CIN	1.25	296	eP	10	59.00	0.2
KHL	1.27	1	iPn	10	58.80	-0.3
S.D. = 0.3			on	5 of	5 obs.	

MAR 16, 1991 21h 43m 56.73± 0.65s
34.925 N ± 7.7km 26.874 E ± 5.9km
DEPTH = 10.0km (geophysicist)
3.9mb (5 obs.)
CRETE (370)

YER	2.48	27	ePn	44	37.00	-0.9
CIN	2.84	20	eP	44	44.00	1.0
ELL	3.06	53	iPn	44	47.50	1.3
IZM	3.48	5	ePn	44	52.40	0.4
VLI	3.67	300	eP	44	56.20	1.5
BCK	3.93	49	iPn	45	00.00	1.6
ATH	3.97	321	eP	45	03.20	4.3X
KHL	4.00	31	ePn	44	59.30	-0.2
ALT	4.87	31	eP	45	10.20	-1.6
DST	4.88	16	eP	45	10.00	-1.9
EZN	4.91	355	eP	45	13.60	1.3
BNT	5.48	8	eP	45	19.00	-1.5
YLV	5.97	19	eP	45	26.00	-1.3
KZN	6.73	324	eP	45	39.50	1.5
BBTK	6.78	42	eP	45	41.00	2.1
			e	46	24.00	
VAY	7.23	333	ePn	45	48.70	3.8X
OHR	7.82	324	ePn	45	55.00	1.8
DSI	7.87	113	eP	45	52.00	-2.0
			eS	47	21.00	
PRNI	8.23	121	eP	46	01.00	2.0
MBH	8.50	125	e(P)	46	03.00	0.1
			eS	47	34.00	
MLR	10.58	356	eP	46	34.00	2.5X
KHC	17.25	329	P	48	02.70	3.5X
SBF	17.44	307	eP	48	03.40	1.7
	0.8s		10.75nm		4.0mb	
LPG	18.60	311	eP	48	17.60	1.4
	0.7s		3.30nm		3.6mb	
SMF	20.92	311	eP	48	40.30	-1.5
LBF	20.99	312	eP	48	41.00	-1.5
	0.9s		9.00nm		4.1mb	
LOR	21.19	313	eP	48	42.50	-2.0
	Z 20s		0.05um		2.9MszX	
AVF	21.29	311	eP	48	45.50	0.0
SSF	21.31	312	eP	48	44.50	-1.2
	1.0s		18.00nm		4.4mb	
GKN	49.17	81	P	52	47.00	-0.1
DMN	49.71	82	P	52	51.80	0.4
KKN	49.78	81	P	52	52.00	0.1
PKI	49.97	81	P	52	53.80	0.3
GUN	50.22	81	P	52	55.00	-0.4
FRB	61.58	330	eP	54	15.00	-1.1
YKA	78.10	343	eP	55	55.50	-1.5
	1.0s		0.50nm		3.6mb	
S.D. = 1.4			on	32 of	36 obs.	

MAR 16, 1991 21h 58m 06.09± 0.69s
41.050 N ± 6.9km 22.487 E ± 5.7km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.5 (SKO). MD 2.4 (THE).

GRG	0.11	215	iPc	58	09.34	0.3
			eS	58	12.22	
VAY	0.28	13	iPg	58	10.80	-1.1
			iSg	58	14.20	
KNT	0.33	70	iPd	58	12.90	0.0
THE	0.55	139	ePc	58	17.14	-0.2
SOH	0.70	109	eP	58	20.00	0.1
SRS	0.84	85	ePc	58	21.98	-0.3
FNA	0.88	253	eP	58	22.30	-0.8
LIT	0.95	180	ePd	58	25.06	0.9
			eS	58	40.38	
SKO	1.21	320	ePg	58	31.50	2.9
			eSg	58	43.50	
OHR	1.28	273	ePn	58	28.00	-1.8
S.D. = 1.4			on	10 of	10 obs.	

MAR 16, 1991 22h 10m 19.24± 1.28s
12.002 N ± 4.7km 60.033 W ±16.1km
DEPTH = 10.0km (geophysicist)
3.6mb (1 obs.)
WINDWARD ISLANDS (95)
MD 3.7 (TRN).

BOT	1.07	219	eP	10	39.13	-0.2
			eS	10	56.76	
GRW	1.60	276	eP	10	47.24	-0.5
			eS	11	07.85	
FCV	1.65	314	eP	10	48.38	0.0
			eS	11	10.41	
SVV	1.74	319	eP	10	49.60	-0.2
TBH	1.82	214	eP	10	51.47	0.7
TRN	1.90	225	eP	10	52.24	0.2
			eS	11	17.22	
SLB	2.06	332	eP	10	54.76	0.4
			eS	11	20.82	
TCE	2.13	233	eP	10	54.75	-0.6
			eS	11	23.00	
TPP	2.18	220	eP	10	56.56	0.5
SLW	2.19	336	eP	10	55.79	-0.5
MVM	2.67	342	eP	11	03.30	0.2
BIM	2.70	338	eP	11	03.94	0.5
CRM	2.87	343	eP	11	06.10	0.3
FDF	2.92	338	eP	11	07.48	0.8
			S	11	49.20	
YKA	63.49	335	eP	20	49.90	-1.7
	0.5s		0.20nm		3.6mb	
S.D. = 0.7			on	15 of	15 obs.	

? MAR 16, 1991 23h 15m 01.50± 1.20s
40.828 N ± 6.7km 27.890 E ±11.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

BNT	0.47	177	ePg	15	11.00	-0.1
CTT	0.52	52	iPg	15	11.80	-0.2
			iSg	15	18.80	
DMK	1.00	354	iPn	15	20.50	0.1
YLV	1.16	103	ePn	15	23.40	0.2
S.D. = 0.3			on	4 of	4 obs.	

? MAR 16, 1991 23h 22m 25.66± 0.91s
15.767 N ± 9.4km 119.128 E ±14.8km
DEPTH = 33.0km (normal)
4.0mb (2 obs.)
LUZON, PHILIPPINE ISLANDS (249)

SZP	2.18	35	eP	23	00.00	-0.3
			eS	23	30.50	
PGP	2.86	142	ePc	23	09.00	-1.0
			iS	23	32.00	
PIP	2.92	29	iPc	23	11.00	0.2
			eS	23	44.00	
GUN	33.03	297	P	29	00.00	-0.7
ASPA	41.77	159	iPd	30	15.00	1.3
	1.3s		5.20nm		4.1mb	
YKA	91.45	22	eP	35	30.20	0.5
	0.7s		0.40nm		3.9mb	
S.D. = 1.1			on	6 of	6 obs.	

• MAR 16, 1991 23h 34m 27.05± 0.85s
37.041 N ± 9.4km 29.441 E ± 6.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ELL	0.48	128	iPg	34	36.50	-0.2
YER	0.93	276	ePn	34	45.50	0.6
BCK	1.01	65	iPn	34	46.50	0.3
CIN	1.22	298	eP	34	49.00	-0.7
KHL	1.28	3	ePn	34	50.80	-0.1
S.D. = 0.7			on	5 of	5 obs.	

• MAR 16, 1991 23h 41m 05.27± 1.08s
31.007 S ±13.0km 69.447 W ±10.9km
DEPTH = 100.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTCB	0.73	131	iPd	41	25.80	2.5
ZON	0.85	129	eP	41	25.00	0.6
			eS	41	37.00	
RTLL	0.90	111	iPc	41	26.90	2.0
			(S)	41	39.20	
CFA	1.19	120	iPc	41	27.90	-0.3
			eS	41	41.20	
JACH	1.93	210	iPd	41	39.50	1.9
			iS	42	03.00	
ROCH	2.37	214	iPc	41	44.30	0.8

16d 23h

		iS	42 12.00		
PEL	2.38	206 iPc	41 43.40	0.0	
		iS	42 10.00		
SAN	2.65	203 eP	41 46.50	-0.5	
		iS	42 15.00		
IHA	2.74	222 eP	41 49.00	0.7	
		iS	42 19.00		
PCH	2.76	199 iPd	41 47.60	-1.0	
		iS	42 18.60		
TACH	2.92	205 iP	41 49.50	-1.3	
		i	42 19.90		
LCCH	3.05	216 iPd	41 52.60	0.2	
		e	42 22.00		
LNV	3.38	209 iPd	41 54.60	-2.3	
		e	42 30.00		
TCA	4.18	96 iPc	42 05.00	-3.0	
		(S)	42 37.20		
ZOBO	14.72	5 P	44 30.00	-0.2	
S.D. = 1.6		an 15 af 15 abs.			

& MAR 17, 1991 00h 11m 12.25s
61.874 N 151.035 W
DEPTH = 64.8km
SOUTHERN ALASKA (2)
<AEIC>.

SKT	0.26	295 iPd	11 22.01	-0.8	
		iS	11 30.21		
SUA	0.43	161 iPd	11 23.80	-0.5	
		iS	11 33.42		
PWA	0.59	112 iPc	11 25.20	-0.6	
		eS	11 35.70		
CUT	0.64	34 iPd	11 25.55	-0.8	
NCG	0.71	229 iPd	11 26.54	-0.8	
		eS	11 38.20		
CRP	0.81	222 ePd	11 27.93	-0.6	
		S	11 40.71		
SPU	0.85	216 ePd	11 28.12	-0.8	
		eS	11 41.13		
BGL	0.89	227 eP	11 29.06	-0.4	
CKL	0.92	223 ePd	11 29.26	-0.6	
		iS	11 42.54		
PMS	0.95	131 iPc	11 29.15	-1.0	
		eS	11 42.78		
PLRM	0.95	106 iPc	11 28.96	-1.1	
		iS	11 43.57		
GHO	1.01	95 iPc	11 30.23	-0.7	
		eS	11 44.81		
NKA	1.14	185 eP	11 34.10	1.5	
HUR	1.28	30 eP	11 33.62	-0.9	
		eS	11 50.29		
KNK	1.32	109 iPc	11 34.15	-0.8	
		eS	11 51.69		
SLKM	1.43	164 iPd	11 35.77	-0.7	
RDT	1.46	208 ePc	11 36.34	-0.7	
RDN	1.60	212 iPc	11 38.24	-0.7	
NCT	1.60	216 iPc	11 38.52	-0.5	
REF	1.61	211 eP	11 38.49	-0.6	
TRF	1.62	12 eP	11 38.29	-1.0	
RS2	1.64	211 eP	11 39.13	-0.5	
		eS	12 00.38		
RSO	1.64	211 ePc	11 39.06	-0.6	
		eS	12 00.47		
RED	1.69	211 eP	11 39.70	-0.4	
SCM	1.76	90 ePc	11 39.92	-1.2	
		S	12 01.62		
RND	1.84	32 ePd	11 41.13	-1.1	
		S	12 04.15		
NNL	1.84	184 ePc	11 43.14	0.9	
SEW	1.94	156 eP	11 43.08	-0.4	
		S	12 05.67		
MCK	2.10	26 eP	11 45.55	-0.3	
GLI	2.14	116 ePc	11 43.97	-2.4	
		iS	12 10.24		
KNIM	2.22	132 eP	11 44.48	-2.9	
VZW	2.30	109 eP	11 46.90	-1.7	
		eS	12 13.84		
TOA	2.31	82 eP	11 48.00	-0.7	
SVW	2.33	253 ePc	11 47.37	-1.7	
		eS	12 14.95		
CNPM	2.36	182 eP	11 49.40	0.0	
VLZ	2.37	106 eP	11 47.32	-2.2	
		eS	12 14.57		
LTI	2.41	138 eP	11 44.21	-5.8	
KLU	2.47	97 iPc	11 49.15	-1.8	
MTU	2.51	137 eP	11 50.36	-1.2	
TTA	2.55	297 ePc	11 50.37	-1.7	
PDB	2.60	218 eP	11 52.05	-0.7	
SDG	2.66	73 eP	11 52.90	-0.7	
PAX	2.81	65 eP	11 54.71	-1.2	
WRH	2.93	26 eP	11 55.31	-2.1	
DDM	3.05	49 eP	11 58.72	-0.5	
SGAM	3.14	113 eP	11 59.34	-1.0	
CCB	3.14	26 eP	11 58.18	-2.2	
HDA	3.14	34 eP	11 59.31	-1.1	
RDS	3.24	22 eP	11 59.72	-2.0	
MDM	3.34	21 eP	12 01.33	-1.9	
SYI	3.34	192 eP	12 02.98	-0.2	
FBA	3.37	24 eP	12 01.59	-2.0	
GLM	3.53	26 eP	12 03.86	-2.0	
HMT	3.63	112 eP	12 06.23	-1.1	
WAX	4.21	106 eP	12 14.51	-1.0	
CTGM	4.75	97 eP	12 20.97	-2.1	
56 obs. associated					

? MAR 17, 1991 00h 54m 41.56± 3.35s
32.038 S ±17.7km 71.704 W ±27.9km
DEPTH = 33.0km (normal)
NEAR COAST OF CENTRAL CHILE (135)

IHA	0.99	177 eP	54 58.50	-0.6	
		i(S)	55 19.50		
ROCH	1.10	148 eP	55 00.50	-0.4	
		iS	55 19.50		
JACH	1.14	125 iPd	55 01.00	-0.3	
		iS	55 19.50		
PEL	1.40	142 iP	55 05.00	0.0	
		iS	55 27.50		
SAN	1.66	148 eP	55 10.00	1.2	
TACH	1.73	158 eP	55 10.00	0.1	
		iS	55 38.00		
PCH	1.87	148 eP	55 12.00	0.1	
LNV	1.93	173 eP	55 12.70	0.1	
		e	55 45.00		
RTCB	2.53	78 eP	55 20.90	-0.5	
		S	55 51.00		
ZON	2.62	80 eP	55 24.00	1.4	
RTLL	2.85	76 eP	55 26.70	1.0	
CFA	2.98	83 e(P)	55 27.90	0.2	
TCA	6.10	85 eP	56 09.50	-2.4	
		(S)	57 22.70		
S.D. = 1.1		an 13 af 13 obs.			

MAR 17, 1991 02h 03m 34.63± 1.34s
18.977 N ±13.6km 64.720 W ± 6.2km
DEPTH = 45.7 ± 16.6 km
VIRGIN ISLANDS (91)
MD 4.9 (TRN). Felt at Raad Tawn, Tartala.

LPR	1.28	239 P	03 56.30	-0.1	
CPD	1.47	231 P	03 59.40	0.3	
SJG	1.61	238 iP	04 00.80	-0.3	
MCP	2.33	257 P	04 11.20	-0.1	
MGP	2.45	247 P	04 13.10	0.1	
BPA	3.33	125 eP	04 26.24	0.6	
		eS	05 02.99		
MDN	4.83	138 eP	04 47.29	0.6	
		eS	05 38.12		
FDF	5.43	140 eP	04 55.20	-0.1	
CRM	5.56	139 eP	04 57.28	0.2	
BIM	5.65	141 eP	04 57.93	-0.4	
MVM	5.72	140 eP	04 59.80	0.4	
SLW	6.12	143 eP	05 04.45	-0.5	
SLB	6.22	145 eP	05 05.66	-0.7	
		eS	06 13.91		
SOA	6.54	148 eP	05 09.68	-1.1	
SVV	6.56	149 eP	05 10.23	-0.8	
TCE	8.72	160 eP	05 40.07	-1.0	
TRN	8.88	158 eP	05 44.07	0.8	
TBH	9.15	157 eP	05 48.27	1.2	
TPP	9.17	159 eP	05 48.22	0.9	
SIV	34.93	174 P	10 21.00	-3.4X	
PPD	42.81	162 (P)	11 45.00	15.1X	
KIC	59.59	94 (P)	13 36.40	-0.2	
INK	64.70	337 eP	14 10.00	0.1	
S.D. = 0.7		on 21 of 23 obs.			

• MAR 17, 1991 02h 46m 19.48± 1.49s
31.828 S ±23.9km 70.069 W ±19.0km
DEPTH = 120.0km (geophysicist)
CHILE-ARGENTINA BORDER REGION (127)

JACH	0.96	207 iPd	46 42.10	0.6	
		iS	46 58.70		
RTCB	1.13	73 ePd	46 43.70	0.4	
ZON	1.22	77 eP	46 44.00	-0.1	
		eS	47 02.00		
ROCH	1.39	215 iPd	46 46.00	-0.3	
		iS	47 06.00		
PEL	1.41	201 iPd	46 48.50	2.2X	
		iS	47 06.40		
RTLL	1.45	70 iPc	46 47.00	0.2	
		eS	47 06.10		
CFA	1.57	82 ePc	46 48.90	0.7	
		eS	47 10.10		
SAN	1.70	197 iPc	46 50.40	0.7	
		eS	47 13.00		
PCH	1.83	192 iPd	46 52.00	0.7	
		iS	47 16.60		
TACH	1.96	202 iP	46 52.70	-0.2	
		iS	47 18.50		
LCCH	2.07	217 iPc	46 54.00	-0.3	
		e	47 20.00		
LNV	2.40	208 iPd	46 57.50	-1.0	
		iS	47 26.00		
TCA	4.70	85 ePd	47 28.20	-1.3	
		S	48 18.60		
S.D. = 0.7		an 12 of 13 abs.			

% MAR 17, 1991 02h 56m 51.37± 0.60s
40.073 N ± 5.3km 29.236 E ± 5.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YLV	0.50	12 iPg	57 01.20	-0.4	
DST	0.66	225 iPg	57 03.90	-0.7	
		iSg	57 13.40		
EYL	0.86	55 ePg	57 08.20	0.2	
BNT	1.05	286 ePn	57 11.70	0.6	
EDC	1.09	285 ePn	57 12.00	0.2	
ALT	1.22	146 ePn	57 14.40	0.3	
CTT	1.24	330 iPg	57 14.20	-0.2	
KGT	1.53	285 ePn	57 18.70	0.0	
S.D. = 0.5		on 8 af 8 obs.			

? MAR 17, 1991 02h 59m 58.36± 8.31s
58.016 N ±74.4km 7.331 E ±14.9km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 2.6 (BER).

KMY	1.62	319 iPc	00 27.18	0.2	
		iS	00 48.32		
ODD1	1.94	349 eP	00 34.00	2.3X	
		eS	01 00.00		
HYA	3.21	350 eP	00 50.20	0.4	
SUE	3.32	338 eP	00 50.80	-0.5	
		eS	01 30.50		
NRA0	3.48	37 Pn	00 53.50	0.0	
		Lg	01 58.60		
S.D. = 0.7		an 4 af 5 obs.			

? MAR 17, 1991 03h 34m 33.95± 1.05s
39.276 N ±10.9km 27.812 E ±15.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

DST	0.71	62 iPg	34 47.50	-0.5	
		iSg	34 59.90		
IZM	0.98	206 ePg	34 52.50	0.0	
		iSg	35 06.50		
BNT	1.08	4 ePn	34 54.00	-0.3	
YLV	1.76	42 iPn	35 05.60	0.8	
S.D. = 1.0		on 4 af 4 obs.			

MAR 17, 1991 04h 24m 09.19± 0.40s
39.273 N ± 4.3km 20.484 E ± 2.6km
DEPTH = 10.0km (geophysicist)
3.8mb (4 obs.)
GREECE-ALBANIA BORDER REGION (392)

IGT	0.28	336 iPc	24 16.18	1.0	
KEK	0.69	310 iPc	24 23.40	0.6	
SRN	0.71	328 iPg	24 24.10	0.9	
TPE	1.08	340 ePn	24 30.00	0.4	
VLS	1.10	176 eP	24 29.50	-0.3	
KBN	1.37	11 ePn	24 39.70	5.4X	
KZN	1.43	43 eP	24 35.50	0.2	
AGG	1.46	99 iPd	24 35.58	0.0	
FNA	1.66	24 iPd	24 39.60	1.1	

LIT	1.75	61	iPd	24	40.62	0.8	VBY	7.33	330	e(Pn)	25	57.10	-1.7	CD2	16.36	302	eP	40	59.20	2.9X
			eS	25	04.20					e(Sn)	27	18.70					eS	44	03.00	
OHR	1.85	7	iPnc	24	44.10	2.8X	MLR	7.41	31	eP	26	03.00	2.9X	BJI	17.11	350	eP	41	07.00	1.4
			iSn	25	12.50		CRE	7.74	307	P	26	04.20	-0.6		1.4s		66.00nm			4.6mb
			LR	25	16.80		CEY	7.86	327	ePn	26	04.40	-1.8		Z 16s		0.70um			3.8MszX
TIR	2.12	347	ePn	24	48.50	3.3X				e(Sn)	27	32.00		SNY	18.83	8	eP	41	31.60	4.7X
LCI	2.22	299	P	24	46.00	-0.5	SFI	7.96	308	P	26	07.80	0.2		1.4s		26.00nm			4.3mb
			eSn	25	15.00		PGD	8.02	308	P	26	09.19	0.6		Z 13s		1.10um			3.8Msz
GRG	2.23	41	ePd	24	47.66	0.9	VRI	8.04	33	ePd	26	08.60	-0.1		E 11s		1.20um			
			eS	25	16.22		LJU	8.06	329	e(Pn)	26	03.50	-5.5X	HHC	18.98	340	Pc	41	35.00	6.1X
THE	2.34	54	ePd	24	49.18	0.9				e	26	07.00			Z 16s		1.40um			
PHP	2.41	359	iPnc	24	50.00	0.7				eSn	27	37.00			N 12s		0.80um			
PAIG	2.55	74	eP	24	57.74	6.4X	TRI	8.12	325	ePnd	26	06.80	-3.1X				sS	45	12.00	
			eS	25	23.74					iSn	27	34.90		LZH	18.99	316	P	41	34.50	5.4X
VAY	2.59	37	iPn	24	53.00	1.1	VOY	8.32	326	iPn	26	10.30	-2.4		5.0s		370.00nm			4.9mb X
			i	24	58.00					iSn	27	43.90			Z 15s		1.83um			4.5MszX
			iSn	25	27.30		MME	8.81	307	P	26	19.80	0.1		N 11s		1.33um			
			LQ	25	40.70		FVI	9.24	325	P	26	24.80	-0.5		E 11s		0.88um			
KNT	2.64	44	eP	24	53.70	1.1	KBA	9.38	329	eP	26	26.00	-1.5				pP	41	42.00	
SOH	2.69	54	iPd	24	54.20	0.8				eS	28	09.00					eS	45	03.50	
SKO	2.79	15	iPnc	24	55.90	1.2	CTI	9.39	319	P	26	24.20	-3.3X	BTO	19.28	336	eP	41	35.00	2.3
			iPg	25	03.80					eSn	28	06.50			N 15s		1.30um			
			iSg	25	34.80		BOB	9.87	307	P	26	33.60	-0.7		E 14s		0.70um			
			LQ	25	47.00		HFS	21.32	351	eP	28	55.50	-2.6	CHG	20.11	261	eP	41	43.00	1.2
KKS	2.80	359	iPn	24	57.00	2.2		0.5s		2.20nm			3.8mb	CN2	21.05	11	eP	41	55.00	3.7X
ATH	2.85	116	eP	24	56.50	1.0		Z 16s		0.05um			3.0MszX		1.0s		10.00nm			4.1mb
ULC	2.85	341	iPnd	24	56.14	0.6				LR	37	58.00			Z 13s		2.60um			4.8MszX
			iSn	25	36.54		NUR	21.42	6	eP	28	58.00	-1.1		N 11s		0.70um			
BRT	2.98	304	P	24	58.30	0.9	EKA	22.53	323	Pc	29	09.50	-0.7		E 11s		0.80um			
			eSn	25	36.00			1.0s		10.80nm			4.3mb				epP	42	00.00	18kmX
SRS	3.01	51	eP	24	57.82	0.0	NB2	22.54	348	P	29	08.00	-2.4				eS	45	40.00	
VLI	3.20	142	eP	25	00.00	-0.5		0.6s		2.00nm			3.8mb	MDJ	22.78	18	eP	42	09.00	0.4
ORI	3.21	285	P	25	01.30	0.6	KAF	23.14	7	eP	29	16.00	-0.2		Z 10s		0.95um			4.5MszX
			eSn	25	39.50		YKA	72.35	340	eP	35	34.20	-2.5		N 12s		1.04um			
TDS	3.23	278	P	25	03.00	2.0		0.6s		0.30nm			3.6mb		E 12s		1.30um			
			eSn	25	39.40			S.D. = 1.2		on 79 of 87 obs.				GTA	23.55	318	eP	42	23.00	6.7X
BDV	3.26	338	iPnc	25	01.27	-0.1	----------								0.9s		10.00nm			4.4mb
			iSn	25	46.50			MAR 17, 1991 04h 37m 04.89± 0.36s							Z 16s		1.20um			4.5MszX
TTG	3.29	344	iPnc	25	02.10	0.4		23.189 N ± 4.9km 119.982 E ± 3.8km							E 11s		0.70um			
			iSn	25	47.07			DEPTH = 10.0km (geophysicist)									sS	46	38.00	
BAI	3.33	305	P	25	02.50	0.2		4.3mb (7 obs.)						GUN	31.06	286	P	43	26.60	0.8
PVY	3.34	354	iPnc	25	04.74	2.1		TAIWAN REGION					(243)	PKI	31.48	285	P	43	30.40	1.0
			iSn	25	51.95									KKN	31.59	286	P	43	30.60	0.3
MMB	3.39	46	eP	25	04.00	0.8	TWK	0.47	81	iPd	37	14.30	-0.2	DMN	31.75	285	P	43	32.00	0.3
HCY	3.51	335	iPnc	25	04.24	-0.6				eS	37	20.20		GKN	32.16	286	P	43	35.00	-0.3
			iSn	25	51.00		TWM1	0.55	132	iPc	37	17.30	1.4	GBA	41.35	264	Pd	44	51.60	-1.2
SOI	3.67	252	P	25	07.90	0.8				eS	37	24.70			0.7s		3.00nm			4.1mb
			eSn	25	47.90		TWG	1.07	110	iPc	37	25.20	0.2	WB2	45.11	161	eP	45	21.40	-1.9
NKY	3.71	343	iPnc	25	08.55	0.7				eS	37	38.60			0.8s		4.00nm			4.4mb
			iSn	25	57.54		TWF1	1.22	82	iPd	37	27.40	-0.2	OIS	47.51	155	iPd	45	40.70	-1.5
MGR	3.90	284	P	25	11.80	1.4				eS	37	42.50		ILT	58.03	23	eP	47	09.00	9.1X
			eSn	25	55.00		TWQ	1.33	36	ePc	37	30.00	0.5	INK	74.56	22	eP	48	44.00	-1.3
VTS	3.90	31	iP	25	10.00	-0.6	TWD	1.73	59	eP	37	35.40	0.3	KSP	80.52	321	eP	49	20.40	1.8
			iSg	26	00.00		OZH	2.16	324	Pnc	37	41.30	-0.1	YKA	84.31	22	eP	49	37.40	-0.6
BRY	3.91	339	iPnd	25	10.07	-0.6		Z 12s		7.20um					0.8s		0.60nm			3.9mb
			iSn	26	02.29					Pg	37	47.60			S.D. = 1.1		on 33 of 43 obs.			
PLE	4.14	349	iPnd	25	14.59	0.8				Sn	38	13.50		----------						
SGO	4.18	290	P	25	16.30	1.9	ANP	2.43	35	eP	37	46.00	0.6	&	MAR 17, 1991 04h 59m 17.41s					
PLD	4.28	47	eP	25	17.00	1.2				eS	38	07.00			61.184 N 151.647 W					
			eSg	26	26.00		HKC	5.43	262	iP	38	28.10	0.2		DEPTH = 73.2km					
RDO	4.30	63	eP	25	16.00	-0.1				iS	39	31.30			2.6mb (1 obs.)					
PGB	4.30	39	iPc	25	17.00	0.8	CVP	5.72	162	eP	38	32.00	0.0		SOUTHERN ALASKA					(2)
			(S)	26	13.00					eS	39	35.00			<AEIC>.					
KDZ	4.45	56	iPd	25	18.00	-0.2	MCO	6.03	261	eP	38	36.00	-0.3							
			iS	26	08.00		GZH	6.11	270	Pd	38	37.00	-0.4	SPU	0.20	270	iPd	59	28.20	-0.4
ALN	4.56	67	eP	25	19.46	-0.4		Z 12s		3.40um							eS	59	37.23	
DIM	4.74	53	eP	25	24.00	1.7				S	39	42.80		CRP	0.26	289	iPd	59	28.72	-0.4
MEU	4.88	245	P	25	23.00	-1.5	BAG	6.77	175	eP	38	36.00	-10.9X				eS	59	38.15	
			eSg	26	17.50		WHN	8.88	327	Pd	39	14.50	-1.7	NCG	0.33	312	iPd	59	29.00	-0.4
HVAR	4.95	323	ePn	25	23.70	-1.6		0.6s		60.00nm			6.1mb X	CKL	0.33	272	iPd	59	28.92	-0.6
DUI	5.18	299	P	25	29.70	1.1		Z 16s		1.80um			3.7MszX	BGL	0.37	283	iPd	59	29.18	-0.5
RFI	5.37	294	P	25	32.95	1.7				pP	39	18.50		NKA	0.49	156	iPd	59	32.02	1.5
PVL	5.37	41	eP	25	29.00	-2.3				S	41	01.50		SUA	0.52	57	iPc	59	30.79	-0.2
BEO	5.54	360	eP	25	31.50	-2.2	NJ2	8.88	354	eP	39	13.20	-3.0				eS	59	41.74	
JMB	5.62	53	eP	25	34.00	-0.8		0.6s		100.00nm			6.3mb X	RDT	0.72	212	iPd	59	32.27	-0.7
			e	27	21.00		QIZ	10.33	248	P	39	36.80	0.6				iS	59	44.59	
SDI	5.63	298	P	25	35.80	0.7		N 15s		3.00um				SKT	0.80	4	iPc	59	32.96	-1.0
DMK	6.10	63	eP	25	40.60	-0.9		E 14s		1.60um							eS	59	45.31	
AQU	6.19	302	P	25	43.80	0.9				eS	41	36.80		RDN	0.87	220	iPd	59	33.85	-1.0
ALP	6.29	306	iPn	25	43.70	-0.7	GYA	12.52	288	P	40	06.20	0.0	REF	0.87	217	ePd	59	34.10	-0.8
DST	6.31	84	eP	25	45.00	0.3				S	42	25.60		NCT	0.89	226	iPd	59	34.17	-0.9
CTT	6.36	70	eP	25	43.60	-1.7	TIA	13.21	350	eP	40	15.40	0.3				eS	59	47.97	
BZS	6.39	7	eP	25	44.00	-1.7		Z 15s		1.00um				RS2	0.91	217	eP	59	34.50	-0.9
MNS	6.68	300	P	25	51.00	1.1	XAN	14.52	321	P	40	31.50	-0.9	RSO	0.90	217	eP	59	34.89	-0.5
CIO	6.78	308	ePn	25	49.70	-1.5	KMI	15.86	280	Pc	40	54.50	4.4X	RED	0.95	216	ePd	59	34.84	-0.9
ASS	7.01	305	P	25	55.10	0.6	TIY	15.86	338	eP	40	52.50	2.6X				eS	59	49.44	
ARV	7.07	309	P	25	53.50	-1.7		Z 15s		1.90um			3.7MszX	PWA	0.97	60	iPc	59	36.04	0.1

17d 04h

SLKM	0.97	134	ePc	59	35.71	-0.3
PMS	1.01	86	ePc	59	36.19	-0.3
NNL	1.16	171	eP	59	39.18	0.8
PLRM	1.28	70	ePc	59	39.00	-0.9
			eS	59	56.47	
CUT	1.39	28	eP	59	40.60	-0.8
GHO	1.43	65	ePc	59	41.26	-0.8
			eS	59	59.76	
BRLK	1.47	165	eP	59	41.93	-0.6
			eS	00	01.30	
HOM	1.53	180	eP	59	43.43	0.2
SEW	1.53	134	eP	59	42.46	-0.8
KNK	1.56	80	iPd	59	42.54	-1.1
			eS	00	03.09	
CNPM	1.68	173	ePc	59	44.33	-1.0
PDB	1.88	223	ePc	59	46.56	-1.5
HUR	2.03	27	eP	59	49.84	-0.3
KNIM	2.09	112	ePc	59	48.08	-2.9
GLI	2.24	96	ePc	59	49.97	-3.0
MTU	2.31	120	ePc	59	51.98	-2.0
TRF	2.36	15	eP	59	53.94	-0.9
MCNL	2.41	215	eP	59	54.67	-0.8
CDD	2.47	205	ePc	59	55.25	-1.0
VZW	2.47	91	ePc	59	53.77	-2.6
VLZ	2.58	89	ePc	59	55.24	-2.4
RND	2.58	29	eP	59	57.16	-0.7
SYI	2.61	189	eP	59	57.16	-0.9
TOA	2.77	68	eP	59	59.50	-1.0
KLU	2.78	81	ePc	59	58.03	-2.5
TZL	3.10	71	eP	00	03.93	-1.0
YKA	17.38	69	eP	03	13.70	-2.4
	0.5s		0.20nm			2.6mb
	43 obs. associated					

% MAR 17, 1991 05h 19m 21.65± 1.36s
37.367 N ± 7.0km 2.184 W ±12.5km
DEPTH = 10.0km (geophysicist)
SPAIN (377)
mbLg 2.6 (MDD).

ENIJ	0.40	184	iP	19	29.80	0.0
			eS	19	35.00	
AFC	1.09	264	eP	19	42.50	0.2
ECOG	1.11	266	eP	19	42.00	-0.5
EVIA	1.29	349	eP	19	45.50	-0.2
			eS	20	03.00	
EBAN	1.50	303	eP	19	49.00	0.4
			eS	20	09.20	
S.D. = 0.5			on 5 of 5 obs.			

MAR 17, 1991 05h 22m 22.66± 0.62s
38.758 N ± 7.0km 141.325 E ± 9.5km
DEPTH = 25.5 ± 5.3 km
4.9mb (2 obs.)
NEAR EAST COAST OF HONSHU, JAPAN(228)

OFUJ	0.42	40	iP+	22	30.90	-0.6
			S	22	37.30	
YAMJ	1.17	240	iP+	22	41.80	-1.6
			S	22	56.90	
AOMJ	1.94	338	P	22	55.30	0.8
			S	23	22.00	
NIIJ	2.38	231	P	23	01.00	0.2
			S	23	33.80	
KAKJ	2.71	200	P	23	05.90	0.5
			S	23	42.40	
CHJJ	3.28	215	P	23	14.60	1.0
			S	24	05.00	
MAT	3.32	229	eP	23	15.00	0.9
			eS	24	02.00	
MTMJ	3.54	233	P	23	18.20	0.9
MRRJ	3.67	357	P	23	19.80	0.8
			S	24	03.70	
HOOJ	3.92	22	P	23	23.50	1.0
			S	24	10.60	
IIDJ	4.26	221	P	23	31.10	3.6X
KUSJ	5.04	30	P	23	36.70	-1.7
			eS	24	36.20	
TSRJ	5.34	235	P	23	47.40	4.6X
ASAJ	5.45	10	eP	23	43.70	-0.5
KKN	47.46	274	P	30	57.00	-0.5
PKI	47.47	274	P	30	57.40	-0.3
GKN	47.87	275	P	30	59.40	-1.2
INK	52.89	28	eP	31	38.00	-0.2
WB2	58.76	188	iPc	32	19.90	-0.9
	0.6s		8.00nm			5.0mb
WRA	58.76	188	P	32	19.00	-1.8
	0.6s		5.10nm			4.8mb
TNP	74.91	53	P	34	05.00	1.6
ZOBO	145.84	57	PKP	42	02.90	1.1
LPB	146.05	58	PKP	42	03.00	1.1
CNCB	146.33	58	PKP	42	06.00	3.4X
SIV	149.99	47	PKP	42	13.00	5.4X
S.D. = 1.1			on 21 of 25 obs.			

MAR 17, 1991 06h 26m 52.05± 0.15s
60.851 N ± 3.5km 166.956 E ± 2.3km
DEPTH = 33.0km (normal)
5.2mb (66 obs.)
EASTERN SIBERIA (671)

KLY	5.55	218	eP	28	14.50	0.1
PET	9.06	214	eP	29	04.00	0.5
	0.5s		60.00nm			6.0mb
	Z 15s		5.00um			4.0Msz
	E 12s		11.00um			
			eS	30	22.00	
			e	31	01.00	
ILT	9.39	35	iPc	29	05.80	-2.2
	1.0s		90.00nm			5.9mb
	Z 12s		8.10um			4.3Msz
	N 12s		5.70um			
	E 12s		5.70um			
			e	30	17.00	
			i	30	53.00	
			i	31	55.00	
ANM	13.17	62	eP	29	59.50	0.4
TTA	17.42	67	ePc	30	55.90	2.1
	1.8s		216.80nm			5.0mb
SVW	18.00	73	ePc	31	02.30	1.3
IMA	18.10	56	ePc	31	03.10	0.8
	1.9s		143.60nm			4.8mb
FBA	20.66	59	ePc	31	31.00	-0.1
	0.9s		32.60nm			4.7mb
PMR	20.86	69	ePc	31	34.50	1.4
TOA	22.04	66	ePc	31	45.60	0.5
KLU	22.35	68	P	31	48.10	-0.1
INK	25.61	48	eP	32	19.00	-0.4
	0.9s		37.00nm			5.0mb
MDJ	27.35	251	eP	32	34.50	-1.1
	Z 16s		0.89um			4.4MszX
	N 16s		1.93um			
	E 16s		1.80um			
MBC	28.41	29	eP	32	44.50	-0.4
	1.0s		8.00nm			4.4mb
CN2	29.90	254	eP	32	57.60	-1.0
	1.8s		100.00nm			5.3mb
	Z 14s		2.20um			4.9MszX
			epP	33	10.80	52kmX
MAT	30.39	230	iPc	33	02.40	-0.6
	1.0s		67.00nm			5.4mb
			(S)	38	08.00	
SNY	32.30	254	Pd	33	20.60	1.0
	1.6s		100.00nm			5.5mb
	Z 16s		0.90um			4.6MszX
	E 13s		0.60um			
YKA	35.13	52	eP	33	42.70	-1.2
	0.8s		10.40nm			4.8mb
DL2	35.52	253	eP	33	47.40	0.0
	1.0s		100.00nm			5.7mb
	N 16s		4.50um			
	E 16s		1.30um			
BJI	37.21	260	eP	34	02.00	0.4
	1.3s		110.00nm			5.6mb
	Z 14s		0.59um			4.5MszX
			eS	39	44.00	
HHC	38.83	265	P	34	16.00	0.6
	N 12s		0.50um			
	E 10s		0.90um			
BTO	39.77	266	eP	34	24.00	0.8
	N 13s		0.90um			
	E 13s		1.20um			
			eS	40	30.00	
PGC	40.02	75	eP	34	25.00	0.0
TIY	40.84	261	Pd	34	32.50	0.5
	Z 15s		1.10um			4.8MszX
	N 14s		1.10um			
GMW	41.11	76	P	34	35.00	1.0
PNT	41.35	72	eP	34	37.00	1.1
	0.9s		18.00nm			4.8mb
EDM	41.46	63	ePc	34	37.20	0.3
RMW	41.64	75	P	34	39.50	1.1
LON	42.15	76	P	34	43.20	0.6
SSE	42.18	246	P	34	43.60	0.8
	1.0s		25.00nm			4.9mb
	Z 20s		0.50um			4.4Msz
	N 14s		0.70um			
			pP	34	47.20	12kmX
			eS	41	04.00	
NJ2	42.43	250	Pc	34	45.60	0.7
	Z 14s		0.60um			4.6MszX
	N 12s		0.80um			
NEW	43.26	71	P	34	51.00	-0.6
	1.1s		18.52nm			4.7mb
SES	44.47	65	eP	35	02.00	0.6
	1.1s		57.00nm			5.3mb
FFC	45.17	55	iPc	35	06.60	-0.3
	1.1s		40.00nm			5.2mb
XAN	45.49	261	P	35	09.50	-0.2
GTA	45.68	274	Pc	35	11.60	0.4
	1.2s		40.00nm			5.2mb
	Z 16s		1.20um			4.9MszX
			pP	35	20.80	31kmX
WHN	45.78	253	Pd	35	12.60	0.7
			pP	35	16.50	13kmX
LZH	46.32	267	iPc	35	16.70	0.4
	1.2s		99.00nm			5.6mb
	Z 20s		0.58um			4.5Msz
	N 13s		0.90um			
	E 13s		0.91um			
			pP	35	26.00	31kmX
			eS	42	04.00	
KEV	46.61	342	eP	35	17.00	-1.0
			i	35	32.80	
MIN	47.05	82	ePd	35	29.80	7.7X
LRM	47.21	70	eP	35	23.20	-0.3
WMO	48.11	287	P	35	31.00	0.7
	1.5s		40.00nm			5.2mb
	Z 16s		0.80um			4.8MszX
SOD	48.84	341	iP	35	36.30	0.9
FRB	48.88	29	eP	35	34.00	-1.7
CMB	49.44	83	e(P)	35	49.70	9.1X
KVN	49.75	80	P	35	43.00	-0.1
BONR	50.51	81	P	35	49.60	0.5
CD2	50.55	263	Pc	35	48.50	-0.6
BW06	50.88	71	P	35	51.50	-0.2
	1.1s		12.40nm			4.8mb
TNP	50.94	80	P	35	51.70	-0.5
	0.9s		7.81nm			4.7mb
ISA	52.25	83	eP	36	01.00	-1.0
RSSD	52.34	65	P	36	02.00	-0.7
	1.1s		27.95nm			5.1mb
SYP	52.43	85	eP	36	16.00	12.6X
CLC	52.56	82	eP	36	04.00	-0.2
GYA	52.85	258	P	36	06.80	0.2
MSU	53.01	76	P	36	08.10	0.3
SBB	53.35	83	eP	36	10.00	-0.1
GSC	53.35	82	eP	36	10.00	-0.2
PAS	53.62	84	eP	36	11.00	-1.0
KAF	53.73	338	eP	36	11.00	-1.4
TPC	54.68	82	eP	36	19.00	-0.9
PLM	54.90	83	P	36	21.30	-0.4
NUR	55.53	338	eP	36	26.00	0.4
KMI	55.86	260	Pc	36	28.00	-0.7
GLA	56.13	82	eP	36	31.00	0.6
NB2	57.01	346	P	36	35.60	-0.7
	0.9s		40.80nm			5.5mb
SCH	57.08	34	eP	36	35.00	-1.9
	0.8s		34.00nm			5.4mb
UPP	57.30	342	iP	36	37.10	-1.2
			i	36	40.60	
HFS	57.59	345	eP	36	39.00	-1.3
	0.9s		28.60nm			5.3mb
	Z 16s		0.25um			4.4MszX
			LR	57	58.00	
ANMO	58.59	74	P	36	47.70	-0.2
ALQ	58.59	74	eP	36	47.50	-0.4
	1.0s		7.00nm			4.7mb
GUN	61.76	277	P	37	08.84	-1.0
	0.9s		56.00nm			5.7mb
KKN	62.15	277	P	37	11.34	-1.3
PKI	62.27	277	P	37	11.90	-1.3
GKN	62.28	278	P	37	12.18	-0.9
MEO	62.37	68	iPd	37	12.70	-0.7
DMN	62.38	278	P	37	13.12	-0.8
GAC	62.40	45	ePd	37	11.80	-1.6
	0.6s		8.00nm			5.0mb
LOE	62.93	257	eP	37	16.00	-1.2
CHG	63.05	260	ePc	37	17.90	-0.2
	1.2s		62.89nm			5.6mb
CBM	63.71	39	P	37	20.80	-1.3

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EKA     63.90 354 Pd     37 23.40    0.2
        0.8s     14.90nm          5.1mb
BDT     64.37 259 eP     37 27.50    0.8
UYO     64.73  65 iPc    37 28.20   -0.7
WIT     65.60 347 eP     37 36.00    1.9
KSP     66.19 340 ePc    37 38.00    0.0
CLL     66.25 342 iP     37 38.20   -0.2
        1.7s     71.00nm          5.5mb
KRA     66.30 337 ePd    37 39.40    0.7
        1.1s     72.00nm          5.7mb
                   e      37 41.40
WTS     66.39 347 iP     37 39.50    0.3
        0.8s     17.00nm          5.2mb
BRG     66.54 342 eP     37 39.60   -0.6
        1.6s     42.00nm          5.3mb
                   i      37 41.90
SPC     67.07 337 eP     37 43.10   -0.8
PRU     67.30 341 P      37 45.00   -0.1
        1.5s     35.70nm          5.2mb
                   e      37 47.80
ENN     67.69 347 eP     37 47.50    0.0
        1.7s    230.00nm          6.0mb
GRF     68.09 343 ePc    37 50.40    0.4
        1.7s     80.00nm          5.5mb
      Z  28s      0.20um          4.2MszX
                   ec     37 53.10
                   ed     37 54.10
SNF     68.12 348 P      37 50.60    0.4
KHC     68.29 342 iPc    37 51.30    0.0
PSZ     68.36 337 eP     37 52.90    1.1
WET     68.38 342 eP     37 52.20    0.3
ABH     68.38 346 eP     37 52.59    0.7
DOU     68.50 348 P      37 52.40   -0.1
ZST     68.61 339 eP     37 54.00    0.8
SRO     68.76 338 eP     37 56.10    2.0
GWF     69.26 346 P      37 57.25    0.0
MLR     69.39 332 eP     38 00.00    1.8
BHG     69.77 342 eP     38 01.00    0.6
WLS     69.85 346 P      38 00.48   -0.4
CDF     69.86 346 P      38 00.66   -0.4
UZD     69.88 337 e(P)   38 04.00    3.0X
ECH     70.07 346 P      38 01.76   -0.4
VITF    70.20 347 P      38 02.17   -0.8
FLN     70.27 351 eP     38 03.20   -0.2
        0.7s     13.25nm          5.1mb
      Z  20s      0.22um          4.4Msz
FEL     70.30 345 P      38 03.12   -0.6
KBA     70.32 341 iPc    38 04.60    0.6
        1.4s     79.70nm          5.6mb
                   i      38 07.20
                   i      38 12.10
                   e      38 44.00
HAU     70.37 346 iPc    38 04.00   -0.1
        1.0s     22.00nm          5.2mb
      Z  21s      0.25um          4.4Msz
WTTA    70.40 342 iPc    38 04.70    0.2
        1.1s     31.20nm          5.3mb
                   i      38 07.00
LDF     70.41 351 eP     38 04.00   -0.3
        0.7s     14.35nm          5.1mb
MOF     70.43 346 P      38 04.08   -0.4
BSF     70.49 346 eP     38 04.70   -0.2
        0.9s     18.00nm          5.1mb
GRR     70.67 351 eP     38 05.60   -0.2
        0.7s      2.05nm          4.3mb
FVI     70.88 341 P      38 06.30   -0.8
LOMF    70.96 346 P      38 07.49   -0.2
LOR     71.37 348 iPc    38 10.20    0.1
        1.2s     61.00nm          5.5mb
      Z  22s      0.13um          4.1Msz
VBY     71.53 339 e(P)   38 11.90    0.8
                   e      38 15.10
CTI     71.59 342 P      38 11.00   -0.5
SSF     71.61 348 iPc    38 11.60    0.1
        1.1s     28.10nm          5.2mb
LBF     71.64 348 iPc    38 11.40   -0.4
        1.0s     26.00nm          5.2mb
AVF     71.89 348 eP     38 13.30    0.1
        1.2s     62.50nm          5.5mb
SMF     71.99 348 eP     38 13.70   -0.1
        1.2s     41.65nm          5.3mb
BGF     72.17 349 eP     38 14.80   -0.1
        1.1s     30.50nm          5.2mb
SNG     72.35 253 eP     38 17.60    1.3
MFF     72.39 351 eP     38 16.80    0.6
TCF     72.50 349 iPc    38 16.90    0.0
        1.0s     22.00nm          5.1mb

MAF     72.53 349 eP     38 17.20    0.2
        1.1s     24.40nm          5.1mb
LSF     72.60 349 iPc    38 17.70    0.3
        1.0s     28.00nm          5.2mb
LPL     72.78 346 eP     38 19.20    0.5
        0.7s      9.90nm          4.9mb
LPG     72.79 346 eP     38 19.50    0.6
        1.4s     65.35nm          5.4mb
BOB     73.16 343 P      38 21.60    0.8
MME     73.54 342 P      38 24.40    1.2
RJF     73.54 349 eP     38 23.40    0.5
      Z  20s      0.15um          4.3Msz
SFI     73.63 342 P      38 24.10    0.7
CKI     73.65 344 P      38 22.80   -0.8
BDI     73.68 342 P      38 22.70   -1.1
PGD     73.70 342 P      38 26.00    2.0
FIR     73.86 342 e(P)   38 25.00    0.3
CAF     73.87 349 eP     38 25.70    0.9
        1.0s     28.00nm          5.2mb
ARV     73.87 341 P      38 24.40   -0.5
LFF     73.97 350 eP     38 26.10    0.7
SRS     74.08 332 eP     38 26.50    0.5
VAY     74.11 333 eP     38 30.00    3.8X
LPO     74.19 349 eP     38 27.40    0.8
        1.3s     68.60nm          5.5mb
HYB     74.19 277 ePc    38 26.00   -1.1
        1.0s     35.00nm          5.3mb
KNT     74.19 333 eP     38 27.70    1.0
SBF     74.32 345 eP     38 27.80    0.3
        0.9s     26.20nm          5.2mb
OHR     74.70 334 eP     38 29.50   -0.2
LMR     74.95 345 eP     38 31.40    0.3
PGF     75.40 343 eP     38 33.90    0.1
        1.0s     18.00nm          5.0mb
POO     75.50 282 iPd    38 33.60   -1.0
RFI     75.84 339 P      38 39.60    3.5X
EPF     75.90 350 eP     38 36.90    0.3
        1.1s     28.10nm          5.2mb
MLS     75.91 349 P      38 37.28    0.7
IGT     76.31 334 iPc    38 39.70    0.8
MGR     76.68 338 P      38 41.00    0.1
GBA     78.01 276 Pc     38 47.00   -1.5
        1.0s     18.00nm          5.1mb
KOD     80.90 275 eP     39 04.00   -0.5
QIS     84.08 206 eP     39 20.00   -0.3
WB2     84.70 211 iPc    39 23.80    0.4
        0.9s     14.10nm          5.2mb
ASPA    88.38 210 iPc    39 41.50    0.1
        2.0s     14.40nm          4.9mb
ZOBO   120.79  66 ePKP   45 33.00   -9.7X
      Z  24s      0.08um          4.3MszX
                   e      47 11.50
                   eLR    29 20.00
CNCB   121.33  67 PKP    45 44.00    0.3
SIV    123.62  59 PKP    45 47.00   -0.4
SPA    150.69 180 iPKPc  46 40.50    5.6X
         1.0s     20.00nm
       S.D. = 0.8  on 163 of 171 obs.
-----------------------------------------
*  MAR  17, 1991  07h 17m 59.59± 1.21s
   32.630 S ±10.7km  177.764 W ±17.3km
   DEPTH =  41.0km  (  2 depth phases)
   5.2mb (  5 obs.)
 SOUTH OF KERMADEC ISLANDS          (179)

HBZ      5.91 212 eP     19 28.40    1.4
                   S      20 37.30
PUZ      6.33 210 P      19 31.40   -1.4
                   eS     20 47.20
NOZ      6.88 209 eP     19 40.20   -0.4
WEL     10.50 213 e(P)   20 49.00   18.5X
                   S      22 20.00
KHZ     11.95 213 eP     20 45.50   -4.7X
                   eS     22 53.10
DZM     17.51 303 iPc    22 02.90    0.5
COO     25.89 266 eP     23 31.00    1.6
RMQ     29.68 273 eP     24 04.00    0.2
CMS     30.79 262 eP     24 15.00    1.5
                   i      24 26.60   44km
BFD     32.70 251 eP     24 31.70    1.5
STK     34.23 260 eP     25 04.70   21.1X
        0.7s      6.40nm
CTA     34.41 282 iPc    24 44.90   -0.3
        0.8s     38.06nm          5.4mb
ASPA    43.24 269 iPc    25 57.60   -1.2
        0.6s     20.60nm          5.0mb
                   eS     32 23.60

WB2     44.41 274 iPd    26 06.80   -1.5
        0.4s     33.30nm          5.5mb
                   e      29 37.10
WRA     44.42 274 P      26 06.00   -2.4
        0.5s     23.10nm          5.2mb
FORR    45.66 257 iPd    26 18.00    0.0
                   e      26 29.00   38km
SPA     57.54 180 iPd    28 01.80   14.6X
        1.0s     17.50nm
TNP     90.12  43 ePc    30 57.20    0.4
        1.2s     10.08nm          5.0mb
KAF    146.71 340 iPKP   37 36.20    0.2
        0.6s      3.80nm
BCAO   148.07 212 iPKPd  37 45.50    5.8X
        0.5s     15.00nm
                   ic     37 54.00
                   ic     38 07.50
                   ic     38 19.40
NUR    148.46 339 ePKP   37 42.00    3.1X
NB2    150.98 351 PKP    37 47.80    5.0X
        0.8s      3.90nm
HFS    151.46 348 ePKP   37 50.70    7.3X
        0.5s      1.80nm
HRI    151.94 281 iPKPd  37 53.30    8.1X
PRNI   152.03 274 iPKPd  37 53.60    8.3X
MML    152.09 279 iPKPd  37 54.00    8.7X
LIC    152.87 164 (PKP)  38 08.40   21.5X
KIC    153.07 165 (PKP)  38 09.40   22.2X
      S.D. = 1.3  on  15 of  28 obs.
-----------------------------------------
   MAR  17, 1991  07h 54m 39.24± 0.34s
    3.638 S ± 7.5km  128.316 E ± 9.7km
   DEPTH =  80.0km  (geophysicist)
   5.2mb ( 14 obs.)
 CERAM                              (272)

MTN      9.56 163 eP     56 59.00    2.7
                   eS     58 53.00
WB2     17.24 161 iPd    58 36.10   -0.3
        0.4s    339.80nm          5.9mb
MBL     19.27 205 iPd    59 00.30   -0.1
PMG     19.57 108 eP     59 04.00    0.5
QIS     20.09 148 eP     59 03.00   -6.0X
                   i      59 08.70
ASPA    20.63 165 iPc    59 14.50    0.0
        0.9s    437.30nm          5.8mb
                   eS     02 55.00
                   iScS   10 26.60
WARB    22.47 184 eP     59 34.00    1.1
CTA     23.94 134 iPd    59 49.10    1.9
        0.9s     50.42nm          4.9mb
MEKA    24.69 201 eP     59 53.90   -0.4
        0.4s     13.00nm          4.7mb
FORR    27.07 180 iPc    00 15.20   -0.9
CMS     32.23 151 eP     01 02.00   -0.1
BRS     33.22 138 iPd    01 09.50   -1.3
COO     34.84 143 eP     01 25.00    0.3
BDT     35.61 307 eP     01 33.00    1.7
BFD     35.84 160 iPc    01 33.40    0.3
        0.8s    100.00nm          5.8mb
CHG     36.52 309 ePd    01 41.00    2.0
        1.0s     25.75nm          5.1mb
GYA     36.52 326 Pd     01 40.60    1.6
TOO     37.26 157 eP     01 46.50    1.5
        0.6s     34.00nm          5.5mb
DZM     41.26 120 iPd    02 19.10    0.7
CD2     41.58 327 P      02 21.40    0.5
TIY     43.71 342 Pc     02 38.80    0.7
LZH     45.67 332 eP     02 54.00    0.0
        1.2s     16.00nm          4.8mb
GTA     50.24 331 P      03 30.00    0.6
        1.0s     10.00nm          4.8mb
GUN     51.50 310 P      03 39.30   -0.2
        0.6s     28.00nm          5.5mb
PKI     51.69 310 P      03 40.36   -0.5
KKN     51.90 310 P      03 41.86   -0.5
        0.7s     17.00nm          5.2mb
DMN     51.94 309 P      03 42.44   -0.3
        0.8s     20.00nm          5.2mb
GKN     52.50 310 P      03 46.30   -0.4
        0.7s     29.00nm          5.4mb
GBA     53.31 290 Pd     03 50.40   -2.2
        0.9s      5.60nm          4.6mb
HYB     53.36 295 eP     03 51.50   -1.5
LTZ     55.14 141 P      04 05.10   -0.6
KHZ     55.74 141 P      04 09.00   -1.0
MNG     56.13 138 P      04 11.10   -1.7
```

17d 08h

PGZ	56.66	137	eP	04	14.80	-1.8
PUZ	56.93	134	eP	04	17.70	-0.9
NOZ	57.00	135	P	04	18.80	-0.2
WMO	59.68	327	P	04	37.40	-0.3
YKA	105.47	25	ePKP	12	53.10	-1.0
	0.8s		0.30nm			
CNCB	154.08	142	PKP	14	34.00	9.6X
LPB	154.21	141	ePKP	14	37.00	12.6X
ZOBO	154.40	141	PKP	14	34.00	9.1X
PPD	154.49	181	(PKP)	14	33.00	8.9X
CCH	154.70	146	(PKP)	14	35.00	10.1X
S.D. = 1.2			on 37 of 43 obs.			

? MAR 17, 1991 08h 21m 38.23± 1.06s
43.441 N ±10.2km 12.627 E ± 7.6km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ARV	0.24	76	P	21	43.90	0.6
			eSg	21	49.40	
ASS	0.37	176	P	21	46.50	0.6
			eSg	21	54.40	
CIO	0.45	123	iPg	21	46.35	-1.1
			eSg	21	53.85	
CRE	0.53	291	P	21	48.70	-0.2
			eSg	21	59.00	
S.D. = 1.4			on 4 of 4 obs.			

MAR 17, 1991 08h 29m 39.01± 0.68s
41.894 N ± 6.2km 23.228 E ± 7.6km
DEPTH = 10.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)
MD 2.7 (THE). ML 2.3 (SKO).

VTS	0.70	359	iPg	29	52.00	-0.9
			iSg	30	01.00	
VAY	0.76	221	iPg	29	54.00	0.2
			iSg	30	04.40	
KNT	0.77	199	iPc	29	53.80	-0.3
SRS	0.82	160	ePc	29	54.88	-0.1
PGB	0.96	46	Pg	29	58.00	0.7
			Sg	30	10.00	
PLD	1.12	79	ePg	30	01.00	1.0
			eSg	30	17.00	
GRG	1.12	214	ePd	30	00.36	0.3
			eS	30	15.04	
THE	1.28	189	ePd	30	02.96	0.3
KDZ	1.66	98	eP	30	08.00	-0.2
			iS	30	32.00	
DIM	1.73	84	eP	30	07.00	-2.2
			Sg	30	37.00	
PVL	2.04	49	iPd	30	15.00	1.2
S.D. = 1.1			on 11 of 11 obs.			

% MAR 17, 1991 09h 20m 50.04± 0.68s
44.537 N ± 5.4km 7.293 E ± 6.6km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.8 (GEN).

PZZ	0.14	257	P	20	53.46	0.0
			S	20	55.33	
STV	0.29	176	P	20	56.43	0.2
			S	21	00.15	
BHB	0.30	356	P	20	56.43	0.0
			S	21	00.15	
ENR	0.32	164	P	20	56.82	0.0
			S	21	01.39	
ROB	0.48	120	P	21	00.03	0.2
			S	21	06.75	
FIN	0.73	116	P	21	04.41	-0.1
IMI	0.76	145	P	21	04.54	-0.4
S.D. = 0.3			on 7 of 7 obs.			

* MAR 17, 1991 09h 38m 25.51± 1.90s
28.077 S ± 7.5km 114.077 E ±20.9km
DEPTH = 33.0km (normal)
3.8mb (1 obs.)
WESTERN AUSTRALIA (590)

BAL	3.41	138	eP	39	19.20	1.5
			iS	39	58.60	
MEKA	4.22	71	eP	39	30.70	1.5
			eS	40	19.00	
MUN	4.30	155	iPc	39	30.70	0.4
			iS	40	18.50	
KLB	4.74	138	eP	39	36.30	-0.3
			eS	40	28.30	
NWAO	5.55	151	eP	39	46.70	-1.2
	0.4s		2.00nm		4.0mb X	
			eS	40	47.00	
NANU	5.65	14	eP	39	49.50	0.2
	0.2s		3.00nm		4.5mb X	
			eS	40	50.60	
RKG	6.48	158	eP	40	05.00	3.9X
	0.3s		4.00nm		4.8mb X	
			eS	41	20.00	
COOL	6.77	116	eP	40	06.00	0.9
	0.2s		2.00nm		4.6mb X	
			eS	41	17.00	
MBL	8.65	38	eP	40	31.00	-0.3
			eS	42	03.00	
WARB	11.35	83	eP	41	07.00	-1.5
			eS	43	05.00	
FORR	12.53	106	eP	41	23.00	-1.2
			eS	43	35.00	
ASPA	18.37	81	eP	42	43.10	3.7X
	0.5s		3.70nm		3.8mb	
S.D. = 1.2			on 10 of 12 obs.			

MAR 17, 1991 10h 22m 32.82± 0.23s
44.101 N ± 1.8km 6.970 E ± 2.2km
DEPTH = 12.9 ± 2.3 km
FRANCE (538)
ML 2.8 (LDG), 2.6 (GEN).

TOUF	0.22	113	Pg	22	37.73	-0.2
MVIF	0.24	147	Pg	22	38.21	-0.1
			Sg	22	42.80	
STV	0.29	61	Pc	22	39.04	-0.1
			S	22	43.31	
AURF	0.33	129	Pg	22	39.99	0.0
			Sg	22	45.17	
AUTN	0.35	107	Pg	22	39.71	-0.5
ENR	0.35	69	Pc	22	40.10	-0.1
			S	22	44.60	
CALN	0.35	190	Pg	22	40.42	0.1
SBF	0.41	125	Pg	22	42.00	0.6
			Sg	22	47.60	
PZZ	0.42	13	P	22	41.20	-0.3
			S	22	47.55	
DOI	0.45	26	P	22	41.70	-0.4
			eSg	22	47.90	
FOUF	0.45	343	iPgd	22	41.62	-0.4
			e(Sg)	22	46.26	
REVF	0.46	141	Pg	22	42.63	0.3
			Sg	22	50.22	
FRF	0.59	204	Pg	22	44.40	-0.1
			Sg	22	52.00	
ROB	0.68	73	Pd	22	46.37	0.3
			S	22	55.52	
IMI	0.69	106	P	22	46.44	0.2
			S	22	55.72	
BHB	0.77	16	P	22	47.50	-0.1
			S	22	57.81	
LRG	0.78	215	Pg	22	47.90	0.1
			Sg	22	58.00	
RRL	0.83	351	P	22	48.65	-0.1
			S	22	59.72	
LMR	0.84	204	Pg	22	49.00	0.3
			Sg	23	00.60	
FIN	0.90	83	P	22	49.93	0.1
			S	23	02.17	
CDR	0.97	244	ePg	22	51.20	0.2
			iSg	23	04.60	
BNI	0.98	348	P	22	51.70	0.5
			eSg	23	04.60	
CKI	1.00	71	P	22	51.20	-0.2
			eSg	23	04.30	
RSP	1.07	11	P	22	52.85	0.1
			S	23	07.24	
PCP	1.21	68	P	22	55.84	0.7
			S	23	10.55	
LSD	1.36	6	P	22	58.69	1.0
			S	23	15.73	
LPG	1.41	354	Pn	22	58.60	0.2
			Sg	23	19.40	
LPL	1.43	353	Pn	22	58.80	0.2
			Sg	23	20.20	
PGF	2.14	136	Pn	23	07.42	-1.4
BGF	3.81	312	Pn	23	31.40	-1.0
S.D. = 0.5			on 30 of 30 obs.			

? MAR 17, 1991 10h 23m 18.70± 1.02s
39.140 N ± 8.3km 27.525 E ±13.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZM	0.77	196	ePg	23	33.70	0.0
			eSg	23	44.70	
DST	0.97	61	ePn	23	37.50	0.3
KCT	1.28	30	ePn	23	42.00	-0.4
KGT	1.32	353	ePn	23	43.30	0.2
S.D. = 0.6			on 4 of 4 obs.			

? MAR 17, 1991 10h 45m 26.61± 3.65s
15.856 N ±42.0km 96.646 W ±18.5km
DEPTH = 84.2 ± 19.6 km
3.1mb (1 obs.)
NEAR COAST OF OAXACA, MEXICO (66)

OXX	1.22	357	iP	45	47.50	-1.6
			iS	46	09.00	
IISM	3.19	347	iP	46	16.50	1.0
			iS	46	58.00	
IIT	3.52	333	(P)	46	21.00	0.6
III	3.68	313	eP	46	22.50	-0.1
PPM	3.71	330	iP	46	23.50	0.3
			(S)	47	05.00	
SCX	3.95	77	(P)	46	26.50	0.4
YKA	48.27	349	eP	54	00.10	-0.6
	0.4s		0.10nm		3.1mb	
S.D. = 1.2			on 7 of 7 obs.			

? MAR 17, 1991 12h 43m 38.46± 5.65s
32.686 S ±28.5km 70.917 W ±12.3km
DEPTH = 81.4 ± 44.8 km
CHILE-ARGENTINA BORDER REGION (127)

JACH	0.27	89	iPd	43	51.00	-0.1
			iS	44	00.00	
ROCH	0.30	195	iPc	43	51.20	-0.1
			iS	43	59.80	
PEL	0.50	157	iPd	43	52.50	0.0
			iS	44	02.10	
IHA	0.70	241	iPc	43	54.50	0.1
			iS	44	05.80	
SAN	0.79	164	iPd	43	55.60	0.1
			iS	44	07.70	
LCCH	0.96	215	iP	43	57.50	0.2
			iS	44	11.50	
TACH	0.96	181	iPd	43	57.50	0.1
			iS	44	11.40	
PCH	0.99	160	iPd	43	58.00	0.1
			iS	44	12.40	
LNV	1.33	198	iP	44	01.60	-0.4
			i	44	18.40	
			i	15	32.70	
S.D. = 0.2			on 9 of 9 obs.			

& MAR 17, 1991 12h 54m 23.49s
59.563 N 153.223 W
DEPTH = 111.8km
SOUTHERN ALASKA (2)
<AEIC>.

AUE	0.22	200	eP	54	38.62	0.8
AUH	0.23	209	eP	54	38.98	1 0
AUI	0.25	205	ePd	54	38.79	0.9
			eS	54	50.55	
PDB	0.54	295	ePc	54	40.23	-0.8
CDD	0.67	199	iPd	54	41.16	-0.9
			eS	54	55.36	
MCNL	0.68	237	iPd	54	41.38	-0.8
			eS	54	54.84	
XLV	0.77	97	eP	54	42.14	-0.8
			eS	54	56.75	
HOM	0.81	83	ePc	54	42.75	-0.5
			eS	54	57.77	
RED	0.89	15	iPc	54	43.15	-0.9
			eS	54	57.96	
RSO	0.93	14	ePc	54	43.79	-0.9
RS2	0.93	14	iPc	54	43.85	-0.8
			eS	54	59.47	
REF	0.97	16	ePc	54	44.07	-0.9
			eS	55	00.05	
RDN	0.98	13	iPc	54	44.32	-0.8
			eS	54	59.95	
CNPM	1.01	91	iPc	54	44.29	-1.0
			eS	54	59.88	
NCT	1.01	8	eP	54	44.54	-0.8

		eS	55 00.62		
SYI	1.05 155	iPd	54 44.45	-1.1	
		eS	55 00.73		
NNL	1.09 63	eP	54 45.93	-0.1	
RDT	1.09 22	iPc	54 45.12	-1.1	
		iS	55 01.53		
BRLK	1.20 79	iPc	54 46.07	-1.3	
		eS	55 03.27		
NKA	1.55 39	ePc	54 51.98	0.7	
CKL	1.70 15	ePd	54 52.34	-1.0	
		eS	55 15.32		
SPU	1.72 19	ePd	54 52.45	-1.2	
		eS	55 14.35		
BGL	1.76 13	eP	54 53.03	-1.0	
SLKM	1.78 57	iPc	54 52.76	-1.5	
CRP	1.79 17	eP	54 53.74	-0.8	
NCG	1.92 15	eP	54 55.33	-0.8	
SVW	1.96 323	ePd	54 55.19	-1.3	
SEW	1.98 72	ePd	54 55.09	-1.7	
SUA	2.27 32	ePc	55 00.01	-0.6	
PMS	2.48 46	ePc	55 01.96	-1.4	
SKT	2.56 18	eP	55 02.95	-1.5	
MTU	2.85 79	iPc	55 06.52	-1.7	
PLRM	2.87 43	eP	55 06.73	-1.7	
KNIM	2.87 72	iPc	55 06.13	-2.4	
KNK	3.00 50	eP	55 08.73	-1.6	
GHO	3.06 42	eP	55 09.38	-1.8	
CUT	3.19 26	eP	55 11.56	-1.3	
GLI	3.33 64	eP	55 12.17	-2.5	
VZW	3.64 63	eP	55 16.48	-2.5	
	39 obs. associated				

? MAR 17, 1991 13h 13m 54.67± 2.25s
28.266 S ±36.2km 66.741 W ±14.0km
DEPTH = 206.5 ± 33.4 km
CATAMARCA PROVINCE, ARGENTINA (130)

RTLL	3.40 206	iPd	14 49.90	0.0	
		eS	15 32.00		
CFA	3.57 201	ePd	14 52.10	0.1	
		eS	15 35.20		
TCA	3.59 149	iPd	14 52.00	-0.2	
		(S)	15 35.20		
RTCB	3.67 209	iPc	14 53.60	0.3	
		S	15 39.00		
ZON	3.68 207	eP	14 53.00	-0.3	
		eS	15 38.00		
JACH	5.52 216	eP	15 17.50	0.9	
PEL	5.93 214	iPd	15 21.60	-0.2	
		e	16 30.50		
ROCH	5.96 217	eP	15 22.00	-0.4	
		e	16 39.50		
PCH	6.24 210	eP	15 27.00	1.1	
TACH	6.47 213	eP	15 28.00	-0.8	
		e	16 43.50		
LCCH	6.65 217	eP	15 30.50	-0.6	
VAO	18.58 78	eP	17 58.90	0.2	
BAO	21.42 58	eP	18 27.10	-0.2	
	S.D. = 0.6 on 13 of 13 obs.				

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* MAR 17, 1991 13h 16m 29.94± 0.83s
37.968 N ± 8.1km 28.701 E ± 8.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

CIN	0.61 233	ePg	16 42.00	-0.2	
		iSg	16 47.00		
KHL	0.74 61	iPg	16 44.10	-0.4	
		iSg	16 55.60		
YER	0.90 202	iPg	16 47.50	0.4	
IZM	1.21 291	ePg	16 52.20	-0.3	
		iSg	17 07.20		
DST	1.64 358	ePn	16 59.50	0.6	
YLV	2.65 11	ePn	17 17.70	4.2X	
	S.D. = 0.6 on 5 of 6 obs.				

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* MAR 17, 1991 13h 36m 10.37± 1.33s
42.986 N ± 5.9km 13.710 E ±12.8km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)
MD 2.5 (SSO).

ALP	0.23 206	iPgd	36 14.43	-0.9	
		iSg	36 18.05		
SSO	0.37 325	e(Pg)	36 17.53	-0.5	
		eSg	36 23.24		
CIO	0.46 297	iPg	36 18.00	-1.8	
		iSg	36 25.00		
AOI	0.57 352	iPg	36 21.54	-0.4	
		iSg	36 32.05		
ARV	0.76 313	P	36 24.70	-0.5	
		eSg	36 35.70		
ASS	0.77 277	P	36 26.80	1.3	
		eSg	36 35.50		
MNS	0.97 232	P	36 28.50	-0.3	
		eSg	36 42.60		
SDI	1.28 176	P	36 34.50	0.3	
		eSn	36 52.90		
CRE	1.43 297	P	36 38.00	1.5	
SFI	1.64 305	P	36 40.70	1.3	
	S.D. = 1.2 on 10 of 10 obs.				

? MAR 17, 1991 14h 12m 56.78± 0.99s
42.857 N ± 7.4km 7.427 W ± 9.2km
DEPTH = 10.0km (geophysicist)
SPAIN (377)
mbLg 2.9 (MDD).

ERUA	0.51 156	iP	13 07.00	-0.1	
		eS	13 14.00		
EMON	0.58 7	eP	13 08.70	0.1	
		eS	13 17.00		
STS	0.83 272	eP	13 12.50	-0.3	
		eS	13 23.00		
EZAM	1.17 233	eP	13 19.00	0.3	
		eS	13 34.50		
GUD	3.30 131	eP	13 59.00	9.3X	
		eS	14 40.00		
	S.D. = 0.4 on 4 of 5 obs.				

MAR 17, 1991 15h 11m 51.07± 0.90s
39.175 N ± 5.6km 20.614 E ± 9.7km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
MD 3.2 (ATH).

VLS	1.00 181	ePn	12 10.00	0.0	
AGG	1.34 96	iPc	12 15.60	-0.2	
FNA	1.71 20	iPc	12 20.24	-0.9	
LIT	1.72 57	iPc	12 21.18	0.0	
		i	12 45.80		
OHR	1.94 4	iPn	12 24.70	0.3	
		iSg	12 51.20		
		LQ	13 03.20		
GRG	2.25 37	ePd	12 30.06	1.2	
THE	2.32 50	eP	12 30.74	0.8	
PAIG	2.49 71	ePc	12 32.30	0.1	
VAY	2.61 34	ePn	12 33.80	-0.2	
KNT	2.65 41	eP	12 34.02	-0.5	
SOH	2.67 51	eP	12 34.70	-0.3	
SKO	2.86 12	ePn	12 32.70	-4.9X	
SRS	3.00 49	eP	12 39.30	-0.2	
	S.D. = 0.6 on 12 of 13 obs.				

MAR 17, 1991 16h 55m 30.32± 0.94s
12.606 N ± 4.5km 60.696 W ±13.8km
DEPTH = 33.0km (normal)
WINDWARD ISLANDS (95)
MD 3.3 (TRN). ML 3.3 (FDF).

FCV	0.77 316	eP	55 44.54	-0.1	
		eS	55 52.62		
SVV	0.87 324	eP	55 46.11	-0.1	
		eS	55 56.75		
SOA	0.88 330	eP	55 46.14	-0.2	
		eS	55 57.01		
GRW	1.04 245	eP	55 49.15	0.4	
		eS	56 02.81		
SLB	1.26 345	eP	55 51.13	-0.6	
		eS	56 07.80		
BIM	1.93 349	iPd	56 01.73	0.2	
		S	56 24.20		
MVM	1.95 354	iPd	56 01.67	0.0	
		S	56 23.80		
TRN	2.07 200	eP	56 03.50	0.1	
		eS	56 27.00		
CRM	2.15 354	iPd	56 04.74	0.2	
FDF	2.16 348	iPd	56 05.21	0.5	
		S	56 30.40		
TCE	2.16 209	eP	56 04.30	-0.4	
		eS	56 28.60		
	S.D. = 0.4 on 11 of 11 obs.				

& MAR 17, 1991 17h 15m 16.17s
56.059 N 160.639 W
DEPTH = 152.2km
3.4mb (1 obs.)
ALASKA PENINSULA (12)
<PAL>.

SDN	0.72 174	iPd	15 39.10	-0.2	
YKA	23.93 55	eP	20 20.40	3.6	
	0.6s 0.70nm			3.4mb	
	2 obs. associated				

MAR 17, 1991 18h 06m 25.23± 1.18s
6.773 S ± 6.3km 146.902 E ± 9.2km
DEPTH = 114.2 ± 10.3 km
5.1mb (10 obs.)
EAST PAPUA NEW GUINEA REGION (207)

PMG	2.63 175	iPc	07 06.00	-1.1	
MNDI	3.28 281	eP	07 17.80	1.7	
QIS	15.42 207	eP	09 57.00	-0.8	
		eS	12 41.00		
W82	17.88 222	eP	10 27.00	-1.3	
	0.2s 47.70nm			5.4mb	
		i	10 27.70		
		eS	13 40.20		
RMO	19.69 175	eP	10 48.00	0.1	
ASPA	20.93 215	iPc	11 00.90	0.3	
	0.3s 45.50nm			5.3mb X	
		eS	14 52.20		
BRS	21.25 165	iPc	11 04.00	0.2	
CDO	24.14 169	iPc	11 33.80	1.9	
WARB	27.31 223	eP	12 01.20	0.0	
	0.3s 5.00nm			4.6mb	
FORR	29.74 214	eP	12 22.00	-0.9	
COOL	34.02 222	eP	13 00.00	-0.3	
	0.3s 5.00nm			4.8mb	
KLB	36.75 224	iPc	13 23.10	-0.2	
	0.3s 16.00nm			5.4mb	
BAL	36.93 226	eP	13 25.00	0.2	
	0.3s 3.00nm			4.6mb	
NWAO	37.90 223	eP	13 33.00	0.0	
MUN	38.05 225	eP	13 35.00	0.8	
RKG	38.74 221	iPd	13 43.60	3.6X	
	0.3s 12.00nm			5.2mb	
MNG	42.28 147	P	14 10.20	1.2	
CHG	53.67 299	eP	15 38.80	1.2	
CHTO	53.67 299	P	15 38.00	0.4	
		epP	16 03.40	105kmX	
XAN	54.21 321	P	15 40.00	-1.4	
CD2	55.74 315	P	15 51.70	-0.8	
GTA	63.27 321	Pd	16 43.80	-0.3	
	0.6s 4.00nm			4.5mb	
LSA	64.63 307	eP	16 51.60	-2.0	
GUN	68.21 304	P	17 16.70	0.5	
	0.4s 40.00nm			5.6mb	
PKI	68.48 303	Pd	17 18.00	0.1	
	0.8s 25.00nm			5.1mb	
KKN	68.66 303	Pd	17 19.24	0.4	
DMN	68.75 303	Pd	17 20.06	0.7	
	0.6s 41.00nm			5.5mb	
GKN	69.27 303	Pd	17 22.80	0.3	
ILT	78.37 13	iP	18 14.00	-0.1	
FBA	85.93 23	P	18 52.20	-1.1	
INK	92.40 21	eP	19 24.00	0.3	
	S.D. = 1.0 on 30 of 31 obs.				

? MAR 17, 1991 19h 08m 11.57± 1.58s
39.051 N ±22.1km 28.174 E ±29.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

DST	0.66 32	iPg	08 23.80	-0.9	
IZM	0.97 228	ePg	08 29.90	-0.1	
		iSg	08 43.40		
KCT	1.20 7	ePn	08 34.00	0.0	
YLV	1.77 31	ePn	08 43.50	1.0	
	S.D. = 1.3 on 4 of 4 obs.				

MAR 17, 1991 19h 20m 58.26± 0.82s
39.252 N ± 8.3km 20.527 E ± 3.7km
DEPTH = 10.0km (geophysicist)
3.5mb (2 obs.)
GREECE-ALBANIA BORDER REGION (392)
MD 3.1 (THE).

IGT	0.32 332	iPc	21 04.38	-0.5	
KEK	0.73 309	ePb	21 11.20	-1.4	

17d 19h

SRN	0.75	327	iPg	21	12.50	-0.4	SKO	2.75	15	iPnd	22	58.30	2.6	YLV	6.95	77	eP	23	57.50	2.3
LSK	0.90	4	ePg	21	14.10	-1.4				i	23	08.60		ASS	6.98	305	P	23	55.80	0.1
KBN	1.39	9	iPnc	21	24.60	1.0				i	23	32.50		ARV	7.03	309	P	23	55.70	-0.7
AGG	1.42	99	iP	21	23.20	-0.9				i	23	36.00		KHL	7.13	95	eP	23	59.00	1.2
VLO	1.45	327	iPn	21	25.30	0.8				LR	53	52.20		VBY	7.29	330	ePnc	23	58.90	-0.9
FNA	1.66	23	iP	21	28.30	0.7	ULC	2.80	341	iPnc	22	57.83	1.3	UZD	7.40	350	e(P)	24	04.00	2.6
LIT	1.74	60	iPc	21	28.74	0.1				iSn	23	37.23		ALT	7.49	89	iP	24	04.00	1.2
			iS	21	51.78		ATH	2.87	117	eP	22	58.10	0.6	RIY	7.52	325	ePn	24	01.60	-1.5
OHR	1.87	6	ePn	21	32.20	1.6	BRT	2.95	303	P	23	02.30	3.7X	EYL	7.54	77	eP	24	03.00	-0.6
			iSn	21	58.00					eSn	23	40.40		RSM	7.57	310	P	24	03.50	-0.3
			LR	22	09.60		SRS	2.98	52	iPd	23	00.50	1.5	GPA	7.63	80	iP	24	12.90	8.2X
TIR	2.15	347	ePn	21	38.00	3.4X	ORI	3.20	285	P	23	04.30	2.2	CRE	7.71	307	P	24	06.00	0.0
GRG	2.23	40	ePc	21	36.54	0.7	BDV	3.21	338	iPnc	23	03.18	0.9	CEY	7.81	327	ePnc	24	05.90	-1.4
			eS	22	05.86					iSn	23	45.00					eSn	25	33.50	
LCI	2.26	299	P	21	36.70	0.5	TDS	3.22	277	P	23	04.40	1.9	ELL	7.87	106	iP	24	11.00	2.8X
			eSn	22	06.50					eSn	23	47.40		SFI	7.93	308	P	24	09.60	0.8
THE	2.33	53	ePd	21	37.10	-0.1	TTG	3.24	344	iPnd	23	04.27	1.6	PGD	7.98	308	P	24	11.20	1.4
PHP	2.43	358	iPnc	21	39.70	1.1				iSn	23	48.85		VRI	8.00	33	ePd	24	10.00	0.2
LACI	2.46	346	iPnd	21	38.80	-0.2	VLI	3.24	142	eP	23	02.20	-0.6	LJU	8.02	329	ePnc	24	08.40	-1.7
PAIG	2.53	74	eP	21	39.90	-0.1	PVY	3.29	353	iPnc	23	07.22	3.7X				eSn	25	36.50	
			eS	22	09.42					iSn	23	52.23		TRI	8.08	324	ePnc	24	08.50	-2.4
VAY	2.59	36	iPn	21	41.00	0.1	MMB	3.36	47	eP	23	08.00	3.6X				iSn	25	36.00	
KNT	2.63	43	eP	21	41.62	0.1	HCY	3.46	335	iPnc	23	06.22	0.4	BCK	8.15	100	eP	24	13.10	1.0
SOH	2.68	53	eP	21	42.50	0.3				iSn	23	51.88		CFR	8.17	42	eP	24	12.00	-0.1
SKO	2.80	14	iPn	21	44.00	0.0	IVA	3.57	353	iPnd	23	10.22	2.7X	FIR	8.22	306	ePn	24	12.00	-1.0
			i	22	10.80					iSn	23	58.47					iSn	25	40.00	
KKS	2.82	358	ePn	21	45.00	0.8	NKY	3.66	343	iPnd	23	10.08	1.3	BUD	8.23	353	e(P)	24	12.00	-1.0
SRS	3.00	51	eP	21	46.30	-0.4				iSn	23	58.68		VOY	8.27	326	ePn	24	11.70	-2.1
BRT	3.02	304	P	21	47.80	0.8	SOI	3.68	252	P	23	10.50	1.5				eSn	25	45.20	
ORI	3.25	286	P	21	51.60	1.3				eSn	23	54.00		PSZ	8.61	357	eP	24	17.60	-0.7
			eSn	22	30.70		GMB	3.79	254	P	23	12.26	1.6	SRO	8.63	350	iP	24	17.90	-0.7
TDS	3.27	278	P	21	51.40	0.8	BRY	3.86	338	iPnd	23	12.15	0.5				i	24	29.50	
VTS	3.91	30	eP	21	59.00	-0.7				iSn	24	02.63					i	27	21.00	
			iS	22	46.00		VTS	3.87	31	iPc	23	13.00	1.3	BDI	8.78	306	P	24	19.60	-1.2
SGO	4.22	290	P	22	03.40	-0.6				iS	24	00.00		MME	8.78	307	P	24	22.60	1.7
HVAR	4.98	323	i(Pn)	22	13.00	-1.8	MGR	3.88	284	P	23	13.30	1.4	VVI	8.91	321	P	24	21.10	-1.5
			iSn	23	09.00		PLE	4.09	349	iPnc	23	16.42	1.6	FVI	9.20	325	P	24	24.90	-1.5
PVL	5.37	41	eP	22	16.00	-4.3X				iSn	24	09.63		ZST	9.20	346	eP	24	24.80	-1.6
SDI	5.67	298	P	22	25.30	0.6	ATN	4.09	255	P	23	15.70	0.9	PGF	9.27	294	eP	24	28.60	1.0
ALP	6.33	306	eP	22	32.16	-1.9				eSn	24	03.00		KBA	9.34	328	iPd	24	26.80	-1.7
MLR	7.41	31	eP	22	51.00	1.8	SGO	4.16	289	P	23	17.90	2.1				i	24	27.20	
			e	24	02.00		PGB	4.27	40	eP	23	18.00	0.7				i	26	02.70	
VRI	8.04	33	ePd	22	55.00	-2.8				eS	24	25.00					iS	26	08.70	
HFS	21.34	351	eP	25	44.20	-3.2X	RDO	4.28	63	eP	23	17.00	-0.5				i	26	12.20	
	0.4s		1.10nm			3.6mb	KDZ	4.42	57	eP	23	19.00	-0.5				i	26	16.80	
NB2	22.57	348	P	25	56.60	-3.1X				eS	24	27.00		CTI	9.35	319	P	24	26.40	-2.2
	0.7s		0.90nm			3.4mb	PRK	4.50	89	eP	23	21.20	0.7	VKA	9.43	343	e(P)	24	29.00	-0.6
S.D. = 1.1 on 32 of 36 obs.							EZN	4.55	82	eP	23	20.30	-0.9				LR	28	53.00	
							ALN	4.55	68	iPc	23	21.58	0.3	BBTK	9.50	83	eP	24	38.00	7.2X
MAR 17, 1991 19h 22m 10.83± 0.26s							DIM	4.71	53	iPc	23	24.00	0.4				e	25	04.00	
39.322 N ± 3.2km 20.479 E ± 2.2km										Sg	24	34.00		SAL	9.67	314	P	24	31.50	-1.4
DEPTH = 10.0km (geophysicist)							MNO	4.74	255	P	23	25.20	1.0	BOB	9.84	307	P	24	35.90	0.5
4.8mb (21 obs.)										eSn	24	19.70		SPC	9.87	359	eP	24	35.80	0.0
GREECE-ALBANIA BORDER REGION (392)							MEU	4.90	245	P	23	24.80	-1.6	BHG	10.04	329	iPc	24	37.10	-1.0
ML 4.6 (ATH). MD 4.4 (TTG).										eSn	24	20.60			0.9s		16.00nm			5.5mb
							HVAR	4.91	323	i(Pn)	23	26.30	0.0	WTTA	10.22	324	iPd	24	39.10	-1.6
										i(Sn)	24	21.80					i	24	39.50	
IGT	0.24	332	iP	22	18.18	2.2											iS	26	29.90	
KEK	0.66	307	eP	22	25.40	1.5	DUI	5.15	299	P	23	31.90	2.0							
SRN	0.67	327	iPg	22	26.00	1.9	GIB	5.22	257	P	23	32.00	1.1	SBF	10.77	299	eP	24	48.40	0.2
LSK	0.83	6	iPg	22	27.50	0.5	PVL	5.34	42	eP	23	31.00	-1.5	VAI	10.82	311	P	24	47.90	-0.9
TPE	1.04	340	iPnd	22	32.30	1.9	RFI	5.34	294	P	23	35.08	2.5	KHC	10.98	336	iP	24	49.00	-1.9
VLS	1.15	176	eP	22	30.50	-1.8	IZM	5.37	98	eP	23	33.40	0.3		1.0s		7.00nm			5.0mb X
KBN	1.33	11	iPnc	22	39.20	3.9X	JMB	5.59	54	eP	23	36.00	0.0	PRU	11.47	340	eP	24	56.50	-1.0
VLO	1.37	327	iPn	22	39.30	3.4X				(S)	25	10.00		Z	11s		0.90um			
KZN	1.40	45	eP	22	37.40	1.0	SDI	5.61	297	P	23	37.50	1.1	N	12s		0.70um			
AGG	1.47	101	iPc	22	37.10	-0.3	USI	5.72	266	P	23	38.70	0.9	E	12s		1.30um			
FNA	1.61	25	iPc	22	42.60	3.1X	FAI	5.73	251	P	23	38.00	0.0				e	25	07.60	
LIT	1.74	63	iPc	22	42.42	1.2	NPS	5.76	133	eP	23	36.60	-1.8	LPG	11.87	306	eP	25	02.60	-0.8
			eS	23	07.38		EDC	5.78	77	eP	23	38.50	-0.1		0.6s		5.40nm			5.0mb
OHR	1.80	8	iPnc	22	45.90	3.7X	BNT	5.82	77	eP	23	38.00	-1.3	LPL	11.89	306	eP	25	02.50	-1.1
			iSn	23	11.60		BLY	5.95	337	eP	23	39.40	-1.6		0.6s		5.40nm			5.0mb
			LR	23	20.50					eS	24	51.40		KSP	11.89	347	eP	25	01.30	-2.0
TIR	2.08	347	iPn	22	51.00	4.9X	DMK	6.08	63	iP	23	41.90	-1.0	GRF	12.28	331	eP	25	06.50	-2.1
LCI	2.19	298	P	22	50.00	2.2	KCT	6.14	79	eP	23	42.90	-0.9	Z	20s		0.10um			
			eSn	23	20.00		AQU	6.16	302	P	23	46.20	2.1	MOX	12.93	334	eP	25	16.00	-1.2
GRG	2.20	41	ePc	22	49.14	1.2	ALP	6.26	306	ePn	23	46.00	0.4	BSF	13.05	315	eP	25	17.50	-1.5
			eS	23	19.16		DST	6.31	85	eP	23	46.00	-0.3		0.9s		9.85nm			5.0mb
THE	2.32	55	ePc	22	50.38	0.8	BZS	6.35	7	eP	23	45.50	-1.1	CLL	13.08	339	eP	25	29.00	9.8X
PHP	2.36	359	ePn	22	55.70	5.5X	RMP	6.42	295	P	23	48.00	0.2		1.5s		37.00nm			5.3mb
LACI	2.39	346	iPn	22	53.00	2.5	YER	6.52	107	eP	23	51.00	1.8	CDF	13.15	318	eP	25	19.60	-0.6
PAIG	2.54	75	ePd	22	53.18	0.4	BUC	6.59	38	ePd	23	50.00	-0.1		0.9s		8.20nm			4.9mb
VAY	2.56	38	iPn	22	55.00	2.0	MNS	6.66	300	P	23	53.00	1.9	KOT	13.22	132	ePn	25	13.50	-7.7X
			i	23	01.70		AOI	6.67	311	ePn	23	49.90	-1.4	HAU	13.40	315	eP	25	21.90	-1.6
			iSn	23	25.20		CIO	6.75	307	iPn	23	52.00	-0.4		0.5s		4.35nm			4.7mb
			LQ	23	46.70		ITU	6.77	72	eP	23	52.00	-0.7	Z	22s		0.13um			
KNT	2.61	44	ePc	22	55.90	2.1	DEV	6.80	14	ePd	24	01.00	8.0X	ABH	13.99	323	eP	25	13.35	-17.9X
SOH	2.67	55	iPc	22	57.10	2.5	TNR	6.92	23	ePc	24	00.00	5.3X	SMF	14.19	306	eP	25	33.10	-0.8

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LBF      14.26 308 eP      25 33.40  -1.4
         1.0s     14.00nm          4.6mb
DSI      14.39 118 eP      25 33.00  -3.5X
LOR      14.46 309 eP      25 37.50   0.1
         0.6s      2.70nm          4.1mb
       Z 20s       0.08um          6.0Msz
AVF      14.56 306 eP      25 37.70  -1.0
SSF      14.58 308 eP      25 38.10  -0.9
         0.9s      9.00nm          4.4mb
BGF      14.78 305 eP      25 41.70   0.1
PRNI     14.90 123 eP      25 41.00  -2.2
MBH      15.20 124 eP      25 42.00  -5.2X
ENN      15.36 323 eP      25 50.00   1.0
         1.0s     14.00nm          4.3mb
DOU      15.57 319 P       25 57.70   5.9X
WTS      15.84 328 eP      26 01.00   5.8X
TOL      18.90 280 eP      26 34.00   0.3
UPP      20.64 356 iP      26 49.80  -3.0X
HFS      21.27 351 eP      26 56.90  -2.3
         0.4s      6.40nm          4.4mb
       Z 15s       0.17um          3.6MszX
                  LR      35 18.00
IFR      21.37 262 iPc     27 03.00   2.3
NUR      21.37   6 eP      26 57.00  -3.3X
EKA      22.49 323 Pc      27 10.60  -0.8
         1.0s     28.70nm          4.7mb
NB2      22.49 348 P       27 09.90  -1.7
         0.7s      7.90nm          4.3mb
KAF      23.10   7 iP      27 16.30  -1.1
TIO      24.12 258 iP      27 30.00   2.3
BCAO     34.77 183 iPc     29 02.90  -0.6
         0.2s     12.00nm          5.4mb
LKO      37.70 225 P       29 26.98  -1.3
         0.9s     21.00nm          4.9mb
TIC      39.82 222 P       29 44.88  -1.1
KIC      39.92 221 P       29 45.64  -1.2
LIC      40.18 222 P       29 47.96  -1.0
WMO      49.24  62 eP      30 58.00  -3.3X
GKN      53.58  81 P       31 29.76  -4.7X
DMN      54.13  82 P       31 34.10  -4.5X
KKN      54.18  81 P       31 34.16  -4.7X
         0.6s     11.00nm          5.0mb
PKI      54.38  82 P       31 35.48  -5.1X
GUN      54.58  81 P       31 37.38  -4.6X
GTA      59.32  62 Pd      32 11.60  -3.7X
         1.6s     10.00nm          4.7mb
XAN      68.34  63 P       33 11.00  -3.5X
CHTO     69.56  82 P       33 18.00  -4.1X
INK      70.93 350 eP      33 28.00  -1.7
ILT      72.12   8 eP      33 36.00  -0.8
YKA      72.31 340 eP      33 35.50  -2.5
         1.0s      2.50nm          4.3mb
CN2      73.13  47 Pd      33 40.00  -3.2X
FFC      74.18 329 eP      33 48.50  -0.6
         0.8s      8.00nm          4.8mb
FBA      75.71 355 P       33 57.00  -0.7
TUL      84.85 313 e(P)    34 46.50  -0.4
         0.8s      6.90nm          4.9mb
      S.D. = 1.4  on 148 of 182 obs.
-------------------------------------
&  MAR  17, 1991  19h 34m 42.28s
   47.623 N          121.945 W
   DEPTH =  22.4km
 WASHINGTON                          ( 29)
      <SEA>. CL 2.7 (SEA).

RMW      0.19 150 Pd       34 47.43  -0.2
HTW      0.22  33 Pc       34 47.52  -0.5
BLH      0.22 345 Pc       34 47.58  -0.4
                  S       34 50.84
SEA      0.25 278 P        34 48.93   0.6
GSM      0.43 166 Pd       34 50.61  -0.7
                  S       34 57.15
PGW      0.48 294 P        34 51.77  -0.3
JCW      0.57   1 Pd       34 52.70  -0.9
GMW      0.57 263 P        34 52.83  -0.8
GHW      0.62 201 P        34 53.54  -0.9
MEW      0.64 229 P        34 54.63   0.0
RVC      0.68 182 Pd       34 54.53  -0.9
FMW      0.72 165 Pd       34 55.02  -1.1
                  S       35 00.02
HDW      0.75 272 Pc       34 55.37  -1.3
RPW      0.88  19 Pd       34 57.74  -1.0
                  S       35 09.33
WPW      0.96 163 Pd       34 59.12  -1.2
                  S       35 12.30
LMW      0.98 194 Pd       34 59.69  -0.9
                  S       35 13.40
TBM      1.02 116 Pd       35 00.85  -0.4
                  S       35 15.08
GLK      1.08 168 Pd       35 01.55  -0.7
                  S       35 16.63
WAH2     1.84 117 Pd       35 13.02   0.1
                  S       35 36.35
ET3      2.31 116 P        35 18.62  -1.0
DPW      2.54  83 P        35 21.02  -2.0
LNOR     3.07 124 P        35 29.85  -0.6
VIPM     3.25 163 P        35 38.08   4.9
      23 obs. ossociated
-------------------------------------
?  MAR  17, 1991  20h 39m 20.29± 0.95s
   42.085 N ± 6.3km   12.771 E ±11.9km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                       (381)

RMP      0.28 191 P        39 26.00  -0.2
                 eSg      39 31.00
MNS      0.31 347 P        39 26.70   0.0
                 eSg      39 32.40
RDP      0.33 187 P        39 27.30   0.2
SDI      0.87 116 P        39 37.00   0.0
      S.D. = 0.2  on   4 of   4 obs.
-------------------------------------
?  MAR  17, 1991  20h 58m 12.43± 2.80s
    2.272 N ±20.3km  127.586 E ±31.3km
   DEPTH =  98.5 ± 31.2 km
   4.6mb (  4 obs.)
 MOLUCCA PASSAGE                     (266)

CGP      6.78 335 eP       59 51.00  -0.1
WB2     23.06 164 iPc      03 10.80   0.7
         0.5s     23.50nm          4.8mb
QIS     25.57 153 iPc      03 33.10  -0.9
ASPA    26.51 167 iPd      03 42.60   0.0
         0.5s      8.20nm          4.5mb
CHG     32.51 302 eP       04 37.00   0.9
CHTO    32.51 302 P        04 36.20   0.1
BJI     39.00 346 (P)      05 33.00   2.3
LZH     40.18 330 eP       05 38.50  -2.3
         1.2s     20.00nm          4.8mb
                  i       06 03.50
GUN     47.27 307 P        06 37.80  -0.5
PKI     47.51 306 P        06 41.40   1.2
KKN     47.70 306 P        06 41.20  -0.3
DMN     47.77 306 P        06 42.60   0.5
GKN     48.31 306 P        06 43.20  -2.9
HYB     50.42 291 eP       07 03.50   1.3
GBA     50.82 286 Pd       07 05.20   0.0
         0.5s      0.80nm          4.0mb
      S.D. = 1.5  on  15 of  15 obs.
-------------------------------------
   MAR  17, 1991  21h 01m 45.78± 0.91s
   23.246 N ± 8.2km  121.032 E ± 8.5km
   DEPTH =  10.0km  (geophysicist)
 TAIWAN                              (244)

TWF1     0.27  67 iPc      01 51.90   0.5
                 eS       01 55.60
TWG      0.43 175 iPc      01 54.00  -0.5
                 eS       02 00.40
TWK      0.50 272 iPd      01 56.80   0.8
                 eS       02 04.90
TWD      0.98  32 ePc      02 04.70   0.4
TWC      1.55  29 eP       02 14.20   0.8
ANP      1.98  13 eP       02 25.00   5.2X
SSE      7.82   1 P        03 40.20  -2.1
                 pP       03 48.00
                 S        05 04.50
      S.D. = 1.4  on   6 of   7 obs.
-------------------------------------
&  MAR  17, 1991  21h 25m 49.00s
   32.150 N          115.780 W
   DEPTH =   6.0km  (geophysicist)
 CALIFORNIA-MEXICO BORDER REGION ( 45)
      <PAS-P>. ML 3.4 (PAS).

IKP      0.57 331 iPd      25 59.80  -0.6
                 eS       26 07.20
BAR      0.92 305 iPc      26 05.80  -1.2
GLA      1.21  42 iPc      26 10.10  -1.8
CPE      1.33 303 iPc      26 12.80  -1.2
PLM      1.51 323 eP       26 15.50  -1.2
PEC      2.09 327 eP       26 23.40  -1.6
CIS      2.54 300 eP       26 30.40  -1.1
      7 obs. ossociated
-------------------------------------
&  MAR  17, 1991  22h 43m 48.58s
   61.654 N          149.925 W
   DEPTH =  43.4km
 SOUTHERN ALASKA                     (  2)
      <AEIC>.

PWA      0.02  98 iP       43 55.15   1.4
                 iS       44 01.70
PLRM     0.38  99 iP       43 57.17  -0.9
                 eS       44 04.56
SUA      0.44 244 eP       43 58.29  -0.5
                 eS       44 06.68
PMS      0.45 157 iP       43 58.29  -0.6
                 iS       44 06.29
GHO      0.49  76 eP       43 58.71  -0.8
KNK      0.74 108 iP       44 02.15  -0.7
                 iS       44 13.18
CUT      0.77 348 iP       44 02.51  -0.6
                 eS       44 12.90
SKT      0.83 294 iP       44 03.10  -0.9
                 eS       44 14.84
NCG      1.10 258 iP       44 07.43  -0.4
NKA      1.11 215 eP       44 09.43   1.5
SPU      1.13 246 eP       44 07.74  -0.5
                 eS       44 22.46
CRP      1.14 251 eP       44 08.64   0.2
SLKM     1.16 187 eP       44 07.55  -1.1
BGL      1.25 253 iP       44 09.91   0.0
CKL      1.25 249 iP       44 09.71  -0.3
SCM      1.25  81 eP       44 09.26  -0.7
HUR      1.34   6 iP       44 11.04  -0.1
                 eS       44 28.50
SEW      1.57 171 eP       44 14.63   0.2
RDT      1.62 229 eP       44 14.43  -0.8
KNIM     1.69 140 eP       44 14.37  -1.7
RDN      1.79 232 eP       44 16.26  -1.4
TRF      1.81 355 eP       44 17.38  -0.6
NCT      1.82 234 eP       44 18.11   0.0
RND      1.83  15 eP       44 18.02  -0.1
TOA      1.83  74 eP       44 18.75   0.5
RED      1.86 229 eP       44 18.15  -0.5
KLU      1.92  93 eP       44 18.72  -0.8
SDG      2.24  65 eP       44 24.74   0.8
      28 obs. ossociated
-------------------------------------
%  MAR  17, 1991  23h 39m 34.66± 0.50s
   40.035 N ± 4.1km   28.754 E ± 4.4km
   DEPTH =   5.0km  (geophysicist)
 TURKEY                              (366)

KCT      0.37 305 iPg      39 41.80  -0.3
                 eSg      39 47.30
DST      0.44 193 iPg      39 43.00  -0.5
                 eSg      39 50.00
YLV      0.71  42 iPg      39 47.80  -1.1
                 iSg      39 57.30
BNT      0.71 297 ePg      39 49.10   0.1
EDC      0.75 295 iPg      39 49.50  -0.1
GBZT     0.92  35 iPgd     39 53.70   1.0
                 iSg      40 07.20
HRT      1.05  41 iPn      39 54.40  -0.6
ISK      1.06  13 ePn      39 55.00   0.0
ALT      1.43 133 ePn      40 02.00   0.5
KHL      1.81 160 ePn      40 07.00   0.2
DMK      1.94 337 iPn      40 09.40   0.8
      S.D. = 0.7  on  11 of  11 obs.
-------------------------------------
&  MAR  17, 1991  23h 47m 33.80s
   38.823 N          122.813 W
   DEPTH =   4.0km
 NORTHERN CALIFORNIA                 ( 36)
      <BRK>. ML 3.7 (BRK).
      Mo=4.4•10••14 Nm (BRK).

NWRM     0.37 189 eP       47 41.40   0.2
ZSP      0.98 153 iPd      47 52.30  -0.6
                 iS       48 05.40
BRK      1.04 155 ePd      47 52.80  -1.2
BKS      1.05 154 ePc      47 53.20  -0.9
                 iS       48 09.40
ORV      1.26  54 ePc      47 55.40  -2.3
PCC      1.36 165 ePc      47 57.80  -1.7
LTCM     1.48  21 eP       48 00.00  -1.3
MHC      1.74 148 eP       48 04.00  -1.1
WDC      1.77   7 e(P)     48 04.00  -1.4
```

17d 23h

MIN	1.78	31	iPd	48	04.70	-1.0
GCC	1.90	160	e(P)	48	06.20	-1.1
CMB	2.06	112	ePc	48	08.10	-1.6
			eS	48	34.60	
FHC	2.17	336	ePc	48	19.00	7.7
SAO	2.32	152	ePc	48	10.90	-2.5
LBFM	2.62	15	eP	48	19.00	1.2
LLA	2.65	145	ePd	48	15.50	-2.7
PRS	2.74	155	e(P)	48	16.70	-2.7
FRI	3.06	126	eP	48	23.00	-0.9
MEO	19.80	94	e(P)	52	08.30	0.2
FFC	21.24	35	eP	52	20.00	-2.9
	0.7s		6.00nm			4.1mb
	20 obs. ossocioted					

MAR 18, 1991 01h 07m 03.33± 0.52s
43.983 N ± 8.5km 9.951 E ± 4.1km
DEPTH = 10.0km (geophysicist)
CORSICA (380)
ML 2.4 (LDG).

BDI	0.47	80	P	07	11.60	-1.4
			eSg	07	17.60	
MME	0.58	68	P	07	14.10	-1.1
			eSg	07	21.00	
BO8	0.86	335	P	07	21.60	1.6
CKI	1.28	291	P	07	28.00	0.9
			eSn	07	46.00	
PGD	1.28	94	P	07	27.40	0.2
SFI	1.37	92	P	07	29.10	0.6
CRE	1.49	103	P	07	31.70	1.4
PGF	1.59	206	Pn	07	32.80	1.1
			Sn	07	52.40	
SBF	1.82	267	Pn	07	34.50	-0.5
			Sn	07	56.40	
FRF	2.43	261	Pn	07	43.00	-0.7
			Sn	08	11.00	
LMR	2.58	257	Pn	07	44.90	-0.9
			Sn	08	14.00	
LRG	2.66	260	Pn	07	46.40	-0.5
			Sn	08	15.20	
LPL	2.76	305	Pn	07	48.00	-0.6
S.D. = 1.1			on 13 of 13 obs.			

% MAR 18, 1991 01h 18m 13.38± 0.50s
40.049 N ± 4.6km 28.740 E ± 4.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

KCT	0.36	304	iPg	18	20.80	0.1
			eSg	18	25.80	
DST	0.45	191	iPg	18	21.50	-1.1
			iSg	18	28.50	
BNT	0.70	296	iPg	18	26.70	-0.5
			eSg	18	36.70	
YLV	0.71	43	iPg	18	26.20	-1.2
			iSg	18	36.00	
EDC	0.73	294	iPg	18	28.50	0.7
ISK	1.04	13	iPn	18	32.90	-0.2
			iSg	18	47.40	
HRT	1.05	42	iPn	18	32.90	-0.3
GPA	1.23	78	ePn	18	37.10	0.9
ALT	1.45	133	ePn	18	40.10	0.4
KHL	1.83	160	ePn	18	45.80	0.6
DMK	1.92	338	ePn	18	47.00	0.6
S.D. = 0.8			on 11 of 11 obs.			

MAR 18, 1991 01h 19m 13.20± 0.34s
44.034 N ± 7.1km 148.834 E ± 5.0km
DEPTH = 55.2km (6 depth phases)
4.7mb (34 obs.)
KURIL ISLANDS (221)

KUSJ	3.14	254	P	19	59.40	-1.9
			S	20	35.10	
HOOJ	4.38	250	P	20	18.90	0.2
			S	21	09.80	
ASAJ	4.46	273	eP	20	20.70	0.8
MRRJ	5.89	257	eP	20	39.00	-1.0
			eS	21	45.70	
MAT	11.03	231	eP	21	49.00	-1.8
	0.7s		65.07nm			5.8mb X
			eS	23	52.00	
CN2	16.84	277	eP	23	06.00	-0.6
	1.0s		10.00nm			3.9mb
	Z 15s		0.90um			
SNY	18.61	272	iPc	23	28.20	-0.1
	0.8s		17.00nm			4.3mb
	Z 18s		0.50um			3.8MszX
			sP	23	42.30	
8JI	24.49	272	eP	24	28.50	0.3
	0.8s		15.00nm			4.6mb
SSE	25.30	249	P	24	37.00	1.0
	0.8s		12.00nm			4.5mb
	Z 20s		0.46um			4.0Msz
			sS	29	17.00	
NJ2	26.32	253	Pc	24	47.00	1.6
HHC	27.54	276	eP	24	57.80	1.2
TIY	28.08	270	iPd	25	02.10	0.7
BTO	28.73	277	eP	25	07.70	0.4
ILT	29.38	24	eP	25	12.00	-0.7
			e	25	34.00	98kmX
XAN	32.29	266	Pd	25	38.00	-0.8
LZH	34.98	273	Pc	26	02.50	0.3
	Z 17s		0.34um			4.2MszX
SVW	36.52	42	P	26	16.20	1.5
	0.8s		20.69nm			5.1mb
CD2	37.64	265	Pc	26	28.60	4.1X
RSO	37.92	43	P	26	29.70	3.0X
GYA	38.17	257	Pc	26	29.00	-0.1
SLKM	39.17	43	P	26	36.40	-0.6
FBA	40.15	36	P	26	44.80	-0.1
			pP	26	57.20	46km
WMO	43.12	292	eP	27	10.00	0.4
INK	45.54	31	eP	27	28.50	-0.1
MBC	48.16	19	eP	27	58.00	8.9X
CHTO	48.53	255	P	27	52.80	0.1
GUN	52.21	274	P	28	20.84	-0.2
KKN	52.71	274	P	28	24.44	-0.2
	0.8s		46.00nm			5.6mb
PKI	52.75	274	P	28	24.50	-0.6
	0.8s		30.00nm			5.4mb
DMN	52.94	274	P	28	26.04	-0.4
	0.7s		60.00nm			5.8mb
GKN	53.05	275	P	28	26.70	-0.4
YKA	54.89	34	eP	28	38.50	-1.4
	0.6s		1.10nm			4.1mb
KEV	58.87	340	eP	29	28.00	19.9X
SES	63.19	45	eP	29	37.00	-0.6
HYB	64.00	269	iPc	29	42.50	-0.8
	1.0s		35.00nm			5.3mb
KAF	64.60	334	eP	29	44.00	-2.5
FFC	64.74	37	iPc	29	47.10	-0.5
	0.6s		8.00nm			4.9mb
WB2	65.03	195	iPc	29	50.70	1.0
	0.7s		12.20nm			5.0mb
			i	30	14.90	96kmX
WRA	65.03	195	P	29	50.00	0.3
	0.6s		9.30nm			5.0mb
LRM	65.25	50	eP	29	51.50	0.2
NUR	66.33	333	eP	29	54.00	-3.6X
TNP	67.28	59	P	30	04.20	-0.1
			pP	30	18.80	52km
GBA	67.32	267	Pc	30	03.20	-1.3
	0.6s		10.00nm			5.0mb
FRB	68.56	17	eP	30	10.00	-1.6
ASPA	68.75	195	eP	30	14.00	0.8
	1.0s		12.20nm			4.8mb
8W06	68.79	51	P	30	13.50	-0.2
	1.0s		7.50nm			4.6mb
NB2	69.77	340	P	30	16.70	-2.4
	0.8s		3.90nm			4.4mb
HFS	69.89	338	eP	30	17.00	-2.8
	0.3s		1.50nm			4.4mb
	Z 15s		0.06um			4.0MszX
			LR	01	37.00	
PV09	71.86	54	P	30	35.50	3.1X
ANMO	75.85	55	P	30	55.50	0.1
			pP	31	10.50	53km
ALO	75.85	55	eP	30	54.00	-1.5
SPC	76.85	328	eP	31	01.40	0.6
KSP	76.91	331	ePc	31	00.80	0.0
CLL	77.61	333	iP	31	04.40	-0.3
	0.8s		13.00nm			5.0mb
EKA	78.20	344	P	31	08.00	0.2
	0.7s		4.10nm			4.5mb
PRU	78.23	332	P	31	08.50	0.4
MOX	78.63	334	eP	31	11.00	0.7
ZST	78.84	329	eP	31	12.20	0.7
WTS	78.88	337	eP	31	13.00	1.4
KHC	79.29	332	iP	31	14.30	0.3
GRF	79.59	334	ePd	31	16.20	0.7
	0.7s		10.00nm			4.9mb
	Z 21s		0.06um			3.9Msz
			ec	31	18.90	
			e(pP)	31	34.10	65km
ENN	80.23	337	eP	31	19.00	0.1
	0.6s		6.00nm			4.7mb
			e	31	34.50	55km
KBA	81.14	331	iPd	31	24.80	0.8
	0.8s		9.00nm			4.8mb
			i	31	41.80	61km
CDF	81.94	335	eP	31	28.00	-0.1
	0.7s		4.40nm			4.6mb
SKO	82.25	323	eP	31	30.00	0.3
BSF	82.61	335	eP	31	31.20	-0.4
	0.6s		2.70nm			4.4mb
OHR	83.23	323	eP	31	34.50	-0.3
FLN	83.75	340	eP	31	38.10	0.9
	Z 20s		0.10um			4.2Msz
LDF	83.82	340	eP	31	38.40	0.8
LOR	83.98	337	eP	31	38.20	-0.2
	0.7s		4.40nm			4.6mb
	Z 20s		0.08um			4.1Msz
GRR	84.19	340	eP	31	39.70	0.3
LBF	84.20	337	eP	31	40.10	0.5
	0.7s		4.40nm			4.6mb
SSF	84.26	337	eP	31	40.30	0.4
	0.7s		4.40nm			4.6mb
AVF	84.55	337	eP	31	41.80	0.5
	0.6s		3.60nm			4.6mb
LPL	84.70	334	eP	31	42.70	0.3
	0.7s		4.40nm			4.7mb
LPG	84.71	334	eP	31	43.00	0.5
	0.7s		7.70nm			4.9mb
MAF	85.29	337	eP	31	46.00	0.9
	1.2s		26.80nm			5.3mb
TCF	85.33	337	eP	31	45.60	0.3
LSF	85.55	338	eP	31	46.90	0.5
MFF	85.67	339	eP	31	46.70	-0.2
SBF	85.95	333	eP	31	49.40	0.9
CAF	86.62	337	eP	31	52.90	1.2
LMR	86.73	333	eP	31	52.30	0.1
LFF	86.98	338	eP	31	54.10	0.8
	1.0s		12.00nm			5.1mb
LPO	87.09	338	eP	31	58.90	5.0X
	0.6s		3.60nm			4.8mb
S.D. = 0.9			on 78 of 85 obs.			

& MAR 18, 1991 02h 21m 53.29s
59.736 N 152.222 W
DEPTH = 68.7km
SOUTHERN ALASKA (2)
<AEIC>.

HOM	0.30	105	eP	22	04.22	-0.3
XLV	0.38	138	ePd	22	04.24	-0.9
			eS	22	12.97	
CNPM	0.54	112	iPc	22	06.09	-0.5
			eS	22	16.03	
NNL	0.56	56	iPc	22	07.02	0.3
BRLK	0.68	87	iPc	22	07.51	-0.6
			eS	22	18.57	
AUE	0.70	238	iPd	22	07.49	-0.8
AUH	0.73	240	ePc	22	08.12	-0.6
AUI	0.73	237	ePc	22	07.91	-0.8
			eS	22	18.89	
RED	0.74	338	iPd	22	08.14	-0.7
			eS	22	19.73	
RSO	0.78	340	iPd	22	08.80	-0.6
			eS	22	20.60	
RS2	0.78	340	iPd	22	08.84	-0.6
			eS	22	20.72	
REF	0.79	343	iPd	22	08.96	-0.7
RDN	0.83	341	iPd	22	09.32	-0.6
			eS	22	21.77	
RDT	0.85	354	iPd	22	09.26	-0.9
			eS	22	21.67	
NCT	0.90	337	ePd	22	10.27	-0.6
			eS	22	23.45	
PDB	1.00	274	iPc	22	10.62	-1.3
CDD	1.09	223	ePc	22	12.30	-0.9
NKA	1.12	25	eP	22	14.24	0.7
SYI	1.13	184	ePd	22	13.24	-0.4
MCNL	1.21	244	ePc	22	13.19	-1.6
			eS	22	29.02	
SLKM	1.27	51	eP	22	14.81	-0.7
SEW	1.44	74	eP	22	18.02	0.2
SPU	1.45	3	ePc	22	17.50	-0.5
CKL	1.47	358	ePc	22	17.92	-0.4
BGL	1.54	357	eP	22	18.90	-0.3

CRP	1.54	1	eP	22	19.22	-0.1
NCG	1.67	1	ePd	22	20.82	-0.3
SUA	1.88	22	eP	22	23.94	0.0
PMS	2.01	40	eP	22	25.20	-0.4
SKT	2.28	8	ePc	22	28.88	-0.5
MTU	2.32	82	eP	22	29.23	-0.7
KNIM	2.33	73	ePc	22	27.78	-2.3
PLRM	2.41	38	eP	22	30.46	-0.6
KNK	2.51	46	eP	22	31.62	-0.9
GHO	2.61	37	eP	22	32.93	-1.1
CUT	2.84	19	eP	22	35.10	-2.1

36 obs. associated

? MAR 18, 1991 04h 12m 57.26±10.15s
51.342 N ±70.9km 16.060 E ±50.3km
DEPTH = 10.0km (geophysicist)
POLAND (548)

KSP	0.52	163	iP	13	07.80	0.0
	0.3s	43.00nm				
			iS	13	16.40	
BRG	1.41	251	iPg	13	23.00	0.0
			iSg	13	42.80	
PRU	1.66	216	ePg	13	27.50	0.9
			eSn	13	45.50	
			Sg	13	52.00	
KHC	2.73	217	ePn	13	41.00	-0.9
			Pg	13	48.00	
			Sn	14	15.80	
			Sg	14	28.00	
MOX	2.89	258	ePg	13	50.50	6.3X
			eSg	14	30.00	

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

& MAR 18, 1991 04h 33m 03.99s
63.127 N 150.845 W
DEPTH = 131.9km
CENTRAL ALASKA (1)
<AEIC>.

TRF	0.41	38	iPd	33	22.79	-0.5
			eS	33	37.21	
HUR	0.57	105	ePd	33	23.31	-0.6
			eS	33	38.89	
CUT	0.77	160	ePd	33	24.99	-0.4
			eS	33	41.80	
RND	0.94	72	iPd	33	26.29	-0.6
			eS	33	43.85	
MCK	1.05	54	ePd	33	27.41	-0.5
			eS	33	46.18	
SKT	1.19	196	ePd	33	28.73	-0.6
			eS	33	47.36	
BWN	1.22	30	iPd	33	29.36	-0.1
PWA	1.55	163	iPc	33	33.14	0.1
GHO	1.63	146	iPc	33	33.97	-0.1
			eS	33	57.13	
NEA	1.65	27	iPd	33	33.15	-1.2
SUA	1.67	178	eP	33	34.84	0.2
PLRM	1.74	152	ePc	33	34.57	-0.7
WRH	1.82	41	iPd	33	35.41	-0.9
NCG	1.84	200	eP	33	36.17	-0.4
PMS	1.98	162	ePc	33	37.84	-0.5
BGL	2.01	202	eP	33	38.50	-0.2
CCB	2.03	40	iPd	33	37.86	-1.0
KNK	2.05	146	ePc	33	38.46	-0.7
CKL	2.06	201	eP	33	39.06	-0.3
RDS	2.08	34	iPd	33	38.50	-1.0
MDM	2.17	31	iPd	33	39.53	-1.1
FBA	2.23	36	iPd	33	40.36	-1.0
TOA	2.39	113	eP	33	43.19	-0.3
NKA	2.40	185	eP	33	45.31	1.8
GLM	2.41	38	iPd	33	42.74	-0.9
PAX	2.45	91	ePc	33	44.03	-0.3
SDG	2.51	102	eP	33	44.58	-0.3
SLKM	2.65	173	eP	33	46.08	-0.6
RDT	2.67	197	eP	33	46.54	-0.5
RDN	2.78	200	eP	33	48.18	-0.3
KLU	2.82	123	ePc	33	47.72	-1.3
GLI	2.87	140	eP	33	48.32	-1.2
VZW	2.89	134	eP	33	48.34	-1.6
VLZ	2.92	131	eP	33	48.42	-1.7
SEW	3.11	167	eP	33	51.98	-0.7
KNIM	3.16	151	ePc	33	51.54	-1.8
MTU	3.50	153	eP	33	56.57	-1.3
CNPM	3.62	183	ePc	33	58.85	-0.6
GLB	3.70	114	ePc	33	59.40	-1.2

39 obs. associated

? MAR 18, 1991 04h 50m 36.49± 0.94s
16.241 N ± 9.5km 61.365 W ± 7.4km
DEPTH = 10.0km (geophysicist)
LEEWARD ISLANDS (92)
ML 1.3 (FDF).

SEG	0.21	320	eP	50	41.06	0.0
			S	50	44.10	
DEG	0.30	76	eP	50	42.80	0.0
			S	50	47.40	
DOG	0.32	230	eP	50	43.30	0.2
PAG	0.37	235	eP	50	43.90	-0.2
			S	50	50.20	

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

? MAR 18, 1991 05h 36m 43.73± 4.94s
23.168 N ±15.9km 120.320 E ±37.8km
DEPTH = 10.0km (geophysicist)
TAIWAN (244)

TWK	0.18	58	iPd	36	48.00	0.1
			eS	36	53.80	
TWM1	0.35	164	ePc	36	51.00	0.0
TWG	0.77	116	ePd	36	59.00	0.2
			eS	37	13.30	
TWF1	0.92	78	ePd	37	01.00	-0.3

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

? MAR 18, 1991 08h 56m 20.66± 3.37s
53.249 N ±32.3km 164.751 W ±12.8km
DEPTH = 33.0km (normol)
4.3mb (3 obs.)
UNIMAK ISLAND REGION (10)

SDN	3.26	48	ePc	57	13.10	2.6
MCNL	8.30	40	eP	58	22.50	0.8
CDD	8.42	43	eP	58	23.81	0.5
PDB	8.77	37	eP	58	29.21	1.2
SYI	8.77	47	eP	58	28.87	0.8
SVW	9.30	28	eP	58	34.00	-1.4
RED	9.72	38	eP	58	42.49	1.2
RS2	9.75	37	eP	58	42.76	0.9
RSO	9.76	37	eP	58	41.81	-0.1
NCT	9.76	37	eP	58	42.14	0.3
CNPM	9.77	45	eP	58	40.57	-1.3
RDN	9.79	37	eP	58	43.48	1.3
REF	9.79	37	eP	58	43.44	1.1
NNL	10.05	42	eP	58	46.10	0.4
CKL	10.41	35	eP	58	51.05	0.3
BGL	10.44	35	eP	58	51.71	0.6
SPU	10.50	36	eP	58	51.19	-0.7
CRP	10.52	35	eP	58	52.80	0.5
NCG	10.62	35	eP	58	54.24	0.7
TTA	10.74	22	ePc	58	53.20	-2.0
SLKM	10.76	42	eP	58	53.72	-1.6
SEW	10.84	45	eP	58	54.74	-1.8
SUA	11.16	37	eP	58	59.39	-1.5
SKT	11.24	34	eP	59	01.57	-0.4
ANM	11.36	359	eP	59	02.50	-1.0
PMS	11.46	40	eP	59	02.39	-2.5X
PWA	11.59	38	eP	59	05.23	-1.4
KNIM	11.70	46	eP	59	05.21	-3.0X
PMR	11.83	39	eP	59	11.20	1.3
CUT	11.96	34	eP	59	10.09	-1.5
KNK	11.99	41	eP	59	08.81	-3.2X
GHO	12.02	38	eP	59	09.42	-3.1X
GLI	12.25	44	eP	59	11.87	-3.6X
KLU	13.05	43	eP	59	23.00	-3.2X
TOA	13.27	41	eP	59	27.30	-1.8
IMA	13.99	19	eP	59	40.20	1.6
	1.0s	7.50nm			4.4mb	
FBA	14.51	30	eP	59	45.00	-0.2
ILT	16.15	341	eP	00	08.00	1.7
INK	21.08	32	eP	01	00.50	-3.5X
YKA	27.54	50	eP	02	11.30	5.5X
	0.7s	2.70nm			4.0mb	
MBC	28.71	21	eP	02	15.00	-1.2
HFS	66.96	1	eP	07	11.60	0.1
	0.4s	1.40nm			4.4mb	

S.D. = 1.3 on 34 of 42 obs.

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* MAR 18, 1991 09h 36m 07.17± 1.31s
1.452 N ± 9.1km 123.603 E ±13.5km
DEPTH = 74.3 ± 16.8 km
4.4mb (4 obs.)
MINAHASSA PENINSULA (265)

MNI	1.24	90	eP	36	28.50	-0.7
			eS	36	46.50	
DAV	5.93	19	eP	37	35.00	0.6
MKS	7.81	212	iPd	38	01.20	0.9
IPM	22.76	278	ePc	41	08.20	4.1X
WB2	23.73	154	eP	41	13.40	-0.2
	0.7s	14.20nm			4.5mb	
NANU	25.13	198	eP	41	24.50	-2.4
ASPA	26.90	159	eP	41	44.30	1.0
	1.2s	5.80nm			4.0mb	
QIS	26.91	145	eP	41	44.00	0.7
CHTO	29.70	307	(P)	42	06.00	-2.5
LZH	39.03	334	e(P)	43	39.00	10.5X
	1.3s	27.00nm				
	Z 18s	0.29um			4.1Msz	
GUN	44.64	310	P	44	14.40	-0.4
	0.6s	10.00nm			4.8mb	
PKI	44.84	309	P	44	16.40	0.1
KKN	45.05	309	P	44	18.20	0.4
DMN	45.10	309	P	44	18.60	0.3
GKN	45.65	309	P	44	22.60	0.1
HYB	47.02	293	eP	44	36.00	2.7X
GBA	47.23	287	P	44	37.00	2.1
	0.4s	1.30nm			4.2mb	

S.D. = 1.4 on 14 of 17 obs.

MAR 18, 1991 09h 55m 43.99± 0.52s
3.284 S ± 6.7km 139.833 E ± 8.3km
DEPTH = 33.0km (normol)
4.7mb (2 obs.)
WEST IRIAN (201)

JAY	1.16	49	iPc	56	03.50	-0.5
			i(S)	56	15.00	
PMG	9.48	130	eP	58	02.00	0.6
KNA	16.50	221	eP	59	35.00	0.4
QIS	17.17	181	eP	59	41.00	-2.1
			eS	02	45.00	
			i	04	57.20	
WB2	17.40	197	iPd	59	45.60	-0.4
	0.6s	27.70nm			4.6mb	
			iS	02	49.80	
CTA	17.84	160	eP	59	53.00	1.5
ASPA	21.06	195	iPd	00	27.70	-0.1
	0.7s	32.20nm			4.8mb	
			i	00	36.60	
			iS	04	18.70	
			iPcS	06	59.60	
WARB	26.05	208	eP	01	16.20	-0.1
PPI	39.51	273	ePd	03	15.00	1.3
GUN	60.43	305	P	05	53.60	0.1
PKI	60.70	304	P	05	55.00	-0.2
KKN	60.88	304	P	05	56.60	0.2
DMN	60.96	304	P	05	56.80	-0.2
GKN	61.49	304	P	05	59.80	-0.6
KIC	144.57	276	(PKP)	15	32.30	12.4X
SIV	151.82	133	ePKP	15	44.00	12.7X

S.D. = 1.0 on 14 of 16 obs.

MAR 18, 1991 12h 16m 54.76± 0.64s
38.720 N ± 5.2km 27.848 E ± 8.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZM	0.56	235	iPg	17	06.90	0.7
			eSg	17	16.90	
DST	1.07	34	ePn	17	15.00	0.0
CIN	1.13	170	ePg	17	16.00	0.0
			iSg	17	31.00	
KHL	1.37	106	iPn	17	19.60	-0.4
KCT	1.58	14	ePn	17	22.30	-0.5
YER	1.62	168	ePn	17	23.00	-0.5
EDC	1.63	0	iPn	17	22.50	-1.0
BNT	1.64	2	iPn	17	23.30	-0.4
ALT	1.80	79	ePn	17	25.50	-0.6
YLV	2.19	32	iPn	17	31.70	-0.1
GPA	2.47	50	ePn	17	35.60	-0.1
ISK	2.52	21	ePn	17	35.00	-1.4
HRT	2.52	33	ePn	17	39.00	2.5
EYL	2.56	43	ePn	17	38.80	1.7

S.D. = 1.1 on 14 of 14 obs.

% MAR 18, 1991 12h 30m 22.79± 0.66s
40.057 N ± 5.7km 28.685 E ± 5.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

18d 12h

KCT	0.32	307	ePg	30 29.30	-0.1	
DST	0.45	186	iPg	30 32.00	0.0	
			eSg	30 38.00		
BNT	0.66	297	ePg	30 36.00	0.1	
			eSg	30 45.30		
YLV	0.73	46	iPg	30 36.70	-0.5	
			iSg	30 45.70		
ISK	1.05	16	ePg	30 42.50	0.0	
HRT	1.07	44	iPn	30 43.30	0.3	
EYL	1.24	65	ePn	30 46.00	0.2	

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

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* MAR 18, 1991 12h 43m 57.74± 0.70s
17.571 N ± 8.7km 120.786 E ± 9.8km
DEPTH = 33.0km (normal)
4.1mb (2 obs.)
LUZON, PHILIPPINE ISLANDS (249)

SZP	0.32	267	iPd	44 05.00	-0.7	
			iS	44 20.00		
PIP	0.77	348	ePd	44 12.20	0.1	
			eS	44 27.00		
CVP	1.00	82	ePd	44 14.60	-0.8	
			eS	44 27.00		
PGP	4.05	178	ePd	44 59.00	0.0	
WB2	39.59	160	iPc	51 28.40	0.5	
	0.3s		2.10nm		4.4mb	
YKA	89.19	22	eP	56 52.10	0.8	
	0.6s		0.30nm		3.8mb	

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

% MAR 18, 1991 13h 06m 16.34± 0.73s
42.749 N ± 6.7km 19.172 E ± 6.5km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.6 (TTG).

NKY	0.14	297	iPgd	06 19.59	-0.2	
			iSg	06 22.39		
TTG	0.33	168	iPgd	06 23.12	0.0	
			iSn	06 28.49		
IVA	0.55	77	iPgd	06 27.39	-0.1	
			iSg	06 35.91		
HCY	0.58	239	iPgc	06 28.19	0.1	
			iSg	06 36.47		
PLE	0.60	16	iPgc	06 28.81	0.2	
			iSn	06 37.52		

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

MAR 18, 1991 13h 18m 37.50± 0.81s
42.993 N ± 7.2km 18.729 E ± 5.3km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.4 (TTG).

BRY	0.16	236	iPgd	18 40.83	-0.5	
			iSg	18 43.68		
NKY	0.27	132	iPgc	18 43.93	0.7	
			iSg	18 49.25		
HCY	0.57	197	iPgd	18 49.00	-0.1	
			iSg	18 57.45		
PLE	0.59	55	iPgd	18 49.28	-0.3	
			iSg	19 00.10		
TTG	0.69	145	iPgc	18 50.67	-0.4	
			iSg	19 01.88		
BDV	0.71	174	iPgc	18 51.32	-0.2	
			iSg	19 03.32		
IVA	0.87	98	iPgd	18 52.80	-1.4	
			iSg	19 09.18		
PVY	1.00	113	iPgd	18 58.12	1.6	
			iSg	19 13.83		
ULC	1.10	159	iPgc	18 57.97	-0.2	
			iSg	19 15.75		
HVAR	1.68	277	iPnd	19 07.80	0.7	
			iSn	19 31.30		
OHR	2.43	140	ePn	19 21.50	3.6X	

S.D. = 1.0 on 10 of 11 obs.

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* MAR 18, 1991 13h 33m 50.92± 0.97s
31.580 S ±10.3km 69.097 W ±18.5km
DEPTH = 100.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTCB	0.27	70	iPd	34 05.90	0.0	
			eS	34 16.20		
ZON	0.36	85	eP	34 06.00	-0.1	
			eS	34 19.00		
RTLL	0.59	65	iPc	34 07.70	0.0	
			(S)	34 20.00		
CFA	0.73	92	ePc	34 09.00	0.1	
			eS	34 23.80		
MDZ	1.32	171	eP	34 15.40	0.0	
			iS	34 35.60		
RTRS	1.44	347	iPc	34 16.80	0.0	
			eS	34 37.70		

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

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* MAR 18, 1991 13h 49m 34.61± 0.75s
54.184 N ±14.5km 167.893 E ±10.1km
DEPTH = 33.0km (normal)
4.4mb (11 obs.)
KOMANDORSKY ISLANDS REGION (4)

KLY	4.55	301	eP	50 44.70	1.8	
PET	5.63	262	eP	50 58.00	-0.1	
			eS	51 59.00		
ILT	15.16	20	iP	53 09.00	1.5	
	1.2s		20.00nm		4.3mb	
			i	53 13.40		
ANM	16.98	42	eP	53 32.50	1.6	
SVW	20.49	56	eP	54 12.00	0.0	
IMA	22.11	42	eP	54 29.90	1.5	
	1.1s		17.60nm		4.4mb	
PMR	23.63	54	eP	54 44.70	1.6	
FBA	24.34	46	eP	54 50.30	0.3	
	0.8s		37.00nm		5.0mb	
TOA	25.01	53	eP	54 56.80	0.2	
MAT	27.02	241	eP	55 16.00	0.6	
	0.7s		5.48nm		4.3mb	
INK	30.13	39	eP	55 41.50	-1.4	
MBC	34.18	24	ePc	56 17.00	-1.3	
	0.5s		2.00nm		4.3mb	
YKA	39.14	46	eP	56 59.40	-0.8	
	0.5s		1.70nm		4.1mb	
FRB	54.54	27	eP	58 59.00	-2.0	
NB2	63.64	348	P	00 02.30	-1.9	
	0.5s		3.10nm		4.7mb	
HFS	64.18	346	ePc	00 05.20	-2.4	
	0.4s		3.50nm		4.8mb	
KBA	76.83	342	iPc	01 24.90	0.3	
	0.5s		2.50nm		4.5mb	
			id	01 25.30		
			i	01 49.40		
WRA	79.25	212	P	01 38.00	0.1	
	0.9s		2.10nm		4.1mb	
ASPA	82.88	211	eP	01 57.30	0.4	
	0.6s		1.70nm		4.3mb	

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

? MAR 18, 1991 14h 18m 16.44± 1.04s
61.104 S ±12.9km 153.566 E ±25.5km
DEPTH = 10.0km (geophysicist)
4.8mb (5 obs.)
BALLENY ISLANDS REGION (702)

DRV	8.17	221	eP	20 17.80	0.1	
TOO	24.10	344	iPc	23 35.00	2.3	
	0.7s		26.00nm		4.9mb	
BFD	24.94	339	eP	23 42.00	1.2	
OLP	35.09	345	eP	25 11.50	0.0	
ASPA	39.80	331	iPc	25 50.80	-0.3	
	0.9s		18.30nm		4.7mb	
			i	27 53.00		
DZM	40.02	19	iPc	25 52.00	-1.0	
CTA	41.30	350	iPd	26 03.80	0.4	
	1.0s		36.00nm		5.1mb	
			iS	32 16.00		
QIS	41.68	340	iPc	26 05.80	-0.7	
WB2	43.29	333	iPd	26 18.90	-0.8	
	0.7s		14.40nm		4.8mb	
			i	27 26.00		
			i	28 06.90		
WRA	43.29	333	P	26 18.00	-1.7	
	1.3s		14.70nm		4.6mb	
YKA	141.39	48	ePKP	37 48.50	0.9	
	0.8s		0.30nm			
VAY	144.58	259	ePKP	37 51.50	-2.3	
OHR	145.26	257	ePKP	37 57.00	2.0	
MBC	147.43	26	ePKP	37 57.50	0.1	
	1.2s		9.00nm			

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

MAR 18, 1991 14h 26m 02.04± 0.33s
77.602 N ± 6.1km 7.971 E ± 6.6km
DEPTH = 10.0km (geophysicist)
4.8mb (16 obs.) 4.6Msz (1 obs.)
SVALBARD REGION (643)

KBS	1.55	30	iPc	26 27.00	-2.7	
			eS	26 42.50		
TRO	8.56	153	eP	28 06.78	-2.0	
KEV	9.45	136	eP	28 19.00	-2.1	
KTK1	9.63	145	eP	28 22.06	-1.5	
LOF	9.65	167	iPc	28 22.58	-1.3	
NSS	13.20	172	eP	29 13.68	1.9	
NB2	16.68	174	P	30 00.00	3.0X	
	1.4s		34.50nm		4.3mb	
HFS	17.66	171	eP	30 14.00	4.8X	
	1.0s		18.50nm		4.2mb	
Z	17s		0.25um		4.0Msz	
			LR	35 06.00		
UPP	18.12	164	iP	30 18.90	4.0X	
BSD	22.73	170	eP	31 11.00	6.3X	
	0.8s		5.60nm		4.1mb	
MBC	23.56	332	eP	31 14.50	1.8	
	1.5s		36.00nm		4.7mb	
FRB	26.25	282	eP	31 39.00	0.7	
KHC	28.66	172	eP	32 13.00	12.5X	
INK	32.49	334	ePc	32 33.30	-0.8	
ILT	34.66	4	eP	32 53.00	0.1	
			e	54 37.00		
YKA	35.83	318	eP	33 01.50	-1.4	
	1.3s		2.90nm		4.0mb	
FBA	36.96	343	eP	33 12.00	-0.4	
ANM	38.01	355	eP	33 22.00	0.9	
FFC	41.19	304	eP	33 48.00	0.4	
	1.4s		45.00nm		5.0mb	
CBM	41.70	270	e(P)	34 00.20	8.3X	
SES	46.91	310	ePc	34 34.50	0.6	
NEW	49.95	314	eP	34 57.60	0.1	
	1.4s		32.61nm		5.1mb	
LRM	51.58	310	eP	35 10.10	-0.1	
RSSD	51.75	302	eP	35 10.00	-1.5	
GTA	52.27	78	iPc	35 16.20	0.9	
Z	16s		0.30um		4.4MszX	
HHC	53.30	67	eP	35 22.80	-0.1	
BW06	54.04	306	eP	35 26.30	-2.2	
	0.9s		3.95nm		4.4mb	
GOL	56.28	302	eP	35 44.30	-0.6	
	0.8s		3.72nm		4.5mb	
LZH	56.31	76	eP	35 45.50	0.5	
	1.5s		25.00nm		5.0mb	
Z	25s		0.26um		4.2MszX	
TIY	56.50	67	eP	35 46.70	0.5	
Z	22s		0.50um		4.6Msz	
PV09	58.13	305	eP	35 57.90	-0.1	
XAN	59.34	71	Pc	36 06.00	-0.2	
MEO	59.75	294	iPc	36 09.20	0.3	
GKN	59.99	97	P	36 11.66	0.8	
	0.9s		25.00nm		5.3mb	
KKN	60.34	96	P	36 14.36	1.1	
	0.9s		54.00nm		5.7mb	
GUN	60.35	95	P	36 14.56	1.0	
	0.9s		23.00nm		5.3mb	
DMN	60.48	96	P	36 15.10	0.8	
	0.9s		22.00nm		5.3mb	
PKI	60.58	96	P	36 15.98	0.9	
ANMO	61.10	301	ePc	36 18.20	-0.1	
	1.2s		7.03nm		4.7mb	
GYA	66.21	76	P	36 52.60	0.7	
LKO	68.41	194	P	37 06.76	1.1	
HYB	68.96	105	eP	37 09.50	0.4	
KIC	71.52	193	(P)	37 26.00	1.4	
BCAO	73.34	169	ePc	37 40.00	4.7X	
	0.9s		9.00nm		4.8mb	
			id	37 53.90		

S.D. = 1.2 on 37 of 44 obs.

? MAR 18, 1991 14h 42m 07.24± 4.28s
16.069 N ±54.9km 85.484 W ±24.4km
DEPTH = 10.0km (geophysicist)
4.3mb (4 obs.)
CARIBBEAN SEA (94)

TPX	6.64	261	(P)	44 04.00	16.7X
OXX	10.82	277	(P)	44 45.50	-0.1
LVVM	11.06	291	(P)	44 43.00	-5.5X
IISM	11.71	286	(P)	44 55.50	-1.9
IIT	12.58	285	(P)	45 10.00	0.6
PPM	12.88	285	(P)	45 14.00	0.3
III	13.56	282	(P)	45 22.00	-0.3

```
CRX     13.93 286 (P)     45 28.00    0.7
MRX     15.38 286 (P)     45 55.00    9.0X
MEO     22.03 330 iPd     47 03.30   -0.4
ALO     26.58 319 eP      47 48.00    0.4
        1.0s      6.50nm            4.3mb
ANMO    26.58 319 eP      47 48.40    0.8
        1.0s      7.50nm            4.3mb
TNP     35.49 314 eP      49 07.80    1.4
SIV     39.94 142 (P)     50 00.00   16.4X
YKA     50.68 343 eP      51 07.10   -1.6
        0.6s      0.40nm            3.5mb
INK     60.37 341 eP      52 18.00   -0.6
MBC     62.73 351 eP      52 35.00    0.6
        1.0s      5.00nm            4.7mb
      S.D. = 1.0  on  13 of  17 obs.
-------------------------------------------
&  MAR  18, 1991   14h 46m 19.34s
   60.042 N            152.973 W
   DEPTH = 116.0km
   2.8mb (  1 obs.)
 SOUTHERN ALASKA                    (  2)
      <AEIC>.

RED     0.39  15 eP      46 36.03   -0.6
RS2     0.44  14 ePc     46 36.28   -0.7
                eS      46 49.11
RSO     0.44  14 iPc     46 36.19   -0.8
                eS      46 49.20
REF     0.47  17 iPc     46 36.41   -0.7
                eS      46 49.89
RDN     0.48  12 ePc     46 36.49   -0.7
                eS      46 48.93
NCT     0.52   2 eP      46 36.59   -0.8
                eS      46 49.87
RDT     0.60  28 ePc     46 37.01   -0.9
PDB     0.67 248 iPd     46 37.28   -1.0
AUE     0.71 197 eP      46 37.76   -0.9
AUH     0.72 200 eP      46 38.08   -0.7
AUI     0.75 198 ePd     46 37.99   -0.9
                eS      46 52.27
HOM     0.77 119 ePc     46 38.74   -0.4
                eS      46 53.54
NNL     0.84  89 ePc     46 39.82    0.0
XLV     0.87 132 eP      46 39.02   -1.0
CNPM    1.02 120 iPc     46 40.75   -0.8
                eS      46 56.92
BRLK    1.09 104 iPd     46 41.61   -0.7
                eS      46 58.11
MCNL    1.10 219 iPd     46 41.26   -1.2
NKA     1.11  50 ePc     46 43.46    1.0
CDD     1.17 197 iPd     46 41.78   -1.3
                eS      47 00.13
CKL     1.20  15 iPd     46 42.88   -0.7
                S       47 01.57
SPU     1.23  21 iPd     46 42.97   -0.9
BGL     1.26  13 iPd     46 43.74   -0.5
CRP     1.29  18 iPd     46 44.10   -0.6
                eS      47 03.14
NCG     1.42  16 ePd     46 45.44   -0.7
SLKM    1.45  70 ePc     46 44.95   -1.4
SYI     1.47 168 ePc     46 45.19   -1.3
SEW     1.77  86 ePc     46 48.40   -1.7
SUA     1.80  37 ePd     46 49.91   -0.7
                eS      47 14.23
SKT     2.07  19 iPd     46 52.89   -1.1
                eS      47 19.01
PMS     2.07  53 ePc     46 52.74   -1.3
PWA     2.21  42 ePc     46 54.50   -1.3
PLRM    2.44  49 eP      46 56.71   -2.0
KNK     2.61  56 eP      46 58.69   -2.4
GHO     2.63  47 eP      46 59.08   -2.3
KNIM    2.63  81 ePc     46 58.49   -2.8
MTU     2.67  89 eP      47 00.29   -1.6
CUT     2.71  28 eP      47 00.89   -1.4
GLI     3.03  71 eP      47 04.11   -2.5
VZW     3.33  69 eP      47 08.74   -1.9
HUR     3.35  27 eP      47 09.84   -1.1
TRF     3.65  19 eP      47 13.20   -1.9
KLU     3.75  64 ePc     47 13.71   -2.7
TOA     3.90  55 eP      47 16.21   -2.2
RND     3.90  28 eP      47 16.48   -2.0
BWN     4.46  20 eP      47 24.54   -1.4
PAX     4.64  48 eP      47 26.12   -2.4
GLB     4.71  69 eP      47 27.32   -2.1
NEA     4.90  20 eP      47 29.50   -2.5
WRH     5.00  25 eP      47 30.41   -2.8
HDA     5.20  30 eP      47 33.59   -2.5

CCB     5.21  25 eP      47 33.04   -3.1
RDS     5.30  23 eP      47 34.58   -2.8
BALM    5.34  75 eP      47 35.44   -2.7
MDM     5.40  22 ePd     47 36.29   -2.5
FBA     5.43  24 eP      47 36.61   -2.6
GLM     5.59  25 eP      47 38.91   -2.6
YKA    18.42  66 eP      50 24.70   -3.2
       0.4s      0.20nm            2.8mb
       57 obs. associated
-------------------------------------------
%  MAR  18, 1991   14h 55m 35.65± 0.94s
   43.761 N ± 8.2km     6.942 E ± 5.2km
   DEPTH =  10.0km  (geophysicist)
 NEAR SOUTH COAST OF FRANCE         (379)
      ML 2.4 (GEN).

STV     0.56  30 P       55 46.40   -0.6
                S       55 53.43
ENR     0.58  36 P       55 46.73   -0.7
                S       55 54.26
IMI     0.70  77 P       55 49.89    0.3
                S       55 57.68
PZZ     0.75   9 P       55 50.25   -0.2
                S       56 00.51
ROB     0.86  51 P       55 51.93   -0.3
                S       56 03.45
CDR     0.86 265 ePg      55 51.80   -0.4
                e(Sg)   56 03.70
FIN     1.02  63 P       55 54.96    0.0
                S       56 07.93
BHB     1.10  12 P       55 56.32   -0.1
                S       56 09.94
RRL     1.16 354 P       55 57.91    0.3
                S       56 12.30
PCP     1.39  55 P       56 01.45    0.3
                S       56 18.31
RSP     1.41   9 P       56 01.10   -0.3
                S       56 17.37
LSD     1.70   5 P       56 07.11    1.3
      S.D. = 0.6  on  12 of  12 obs.
-------------------------------------------
&  MAR  18, 1991   15h 09m 09.36s
   60.791 N            150.762 W
   DEPTH =  51.0km
 KENAI PENINSULA, ALASKA            ( 14)
      <AEIC>.

NKA     0.24 259 iPc     09 19.43    1.3
SLKM    0.39 137 iPc     09 19.05   -0.5
                iS      09 27.10
SUA     0.68   1 iPd     09 22.37   -0.7
PMS     0.74  52 ePc     09 23.34   -0.5
                iS      09 34.35
SPU     0.74 302 iPc     09 23.23   -0.6
                iS      09 34.32
NNL     0.80 200 iPd     09 24.88    0.3
CRP     0.83 306 ePc     09 24.75   -0.4
                eS      09 36.83
RDT     0.84 256 iPc     09 24.28   -0.9
                iS      09 36.10
CKL     0.87 299 iPc     09 24.89   -0.7
NCG     0.91 313 iPc     09 25.80   -0.5
                eS      09 38.66
BGL     0.92 302 iPc     09 25.87   -0.5
                eS      09 39.32
SEW     0.95 136 ePc     09 25.60   -1.0
                eS      09 39.08
PWA     0.96  26 iPd     09 26.64   -0.1
REF     1.00 253 ePc     09 26.69   -0.8
RDN     1.02 255 iPc     09 26.69   -1.1
                iS      09 40.72
BRLK    1.03 183 ePd     09 26.75   -1.0
                eS      09 41.17
RSO     1.04 252 ePc     09 27.19   -0.8
                eS      09 41.42
RS2     1.04 252 ePc     09 27.23   -0.8
RED     1.06 250 iPc     09 27.38   -0.8
                eS      09 41.65
NCT     1.09 259 iPc     09 27.79   -0.9
                eS      09 42.45
PLRM    1.13  44 iPd     09 28.39   -0.6
HOM     1.22 202 eP      09 30.20   -0.1
SKT     1.25 343 ePd     09 30.31   -0.5
                iS      09 47.09
KNK     1.28  60 ePc     09 30.70   -0.6
CNPM    1.29 191 iPd     09 30.62   -0.8
GHO     1.33  41 iPd     09 31.23   -0.7

KNIM    1.56 105 ePc     09 32.83   -2.3
CUT     1.64   8 eP      09 35.70   -0.5
MTU     1.74 116 eP      09 36.26   -1.4
GLI     1.80  86 ePc     09 36.06   -2.4
PDB     1.98 241 eP      09 40.44   -0.6
VZW     2.07  81 eP      09 40.48   -1.9
VLZ     2.19  79 eP      09 41.88   -2.0
HUR     2.26  13 eP      09 45.28    0.3
SYI     2.34 201 ePc     09 45.39   -0.7
CDD     2.37 219 ePc     09 46.09   -0.4
KLU     2.45  71 ePc     09 46.00   -1.8
TRF     2.68   5 eP      09 51.58    0.5
RND     2.77  18 eP      09 52.93    0.5
TZL     2.86  62 eP      09 51.80   -1.7
GLB     3.44  76 ePc     09 59.15   -2.6
       41 obs. associated
-------------------------------------------
&  MAR  18, 1991   15h 15m 36.48s
   62.890 N            150.536 W
   DEPTH = 100.3km
 CENTRAL ALASKA                     (  1)
      <AEIC>.

HUR     0.42  78 ePd     15 51.71   -0.3
                eS      16 02.44
CUT     0.50 166 iPc     15 52.43   -0.1
TRF     0.57  11 ePc     15 53.07   -0.2
                iS      16 05.77
RND     0.92  55 iPd     15 56.09   -0.4
                eS      16 10.35
SKT     1.02 207 ePd     15 57.12   -0.4
                eS      16 12.45
MCK     1.11  40 ePd     15 58.12   -0.4
PWA     1.28 166 iPc     16 00.52    0.1
                eS      16 18.80
GHO     1.35 145 iPc     16 01.40    0.0
                eS      16 20.35
BWN     1.37  20 ePc     16 01.46   -0.1
SUA     1.43 184 ePc     16 02.36   -0.1
PLRM    1.46 153 iPc     16 02.01   -0.6
NCG     1.67 208 ePc     16 04.96   -0.5
PMS     1.71 164 ePd     16 05.43   -0.5
KNK     1.78 146 iPc     16 06.03   -0.6
CRP     1.80 206 ePc     16 06.93   -0.2
NEA     1.81  20 iPc     16 06.32   -0.8
                eS      16 27.75
BGL     1.85 209 ePc     16 07.85    0.1
SPU     1.86 203 ePc     16 07.28   -0.5
CKL     1.90 207 eP      16 08.04   -0.3
WRH     1.93  33 ePc     16 07.75   -0.8
CCB     2.14  33 ePc     16 10.40   -1.0
TOA     2.17 109 ePc     16 11.59   -0.3
NKA     2.18 189 eP      16 14.32    2.4
HDA     2.21  45 ePd     16 11.53   -0.8
RDS     2.21  28 ePc     16 11.60   -0.8
DDM     2.29  65 eP      16 13.36   -0.1
MDM     2.31  25 ePc     16 12.92   -0.8
PAX     2.32  86 ePd     16 13.49   -0.4
SDG     2.33  97 ePd     16 13.60   -0.4
FBA     2.35  30 ePc     16 13.46   -0.8
SLKM    2.40 176 eP      16 14.31   -0.6
RDT     2.49 202 ePc     16 15.67   -0.5
TTA     2.51 273 ePd     16 15.79   -0.6
TZL     2.52 107 eP      16 16.20   -0.3
GLM     2.52  32 ePc     16 15.81   -0.8
KLU     2.58 121 ePc     16 15.68   -1.7
GLI     2.59 140 eP      16 16.35   -1.1
NCT     2.60 207 eP      16 17.73    0.1
RDN     2.61 205 eP      16 16.88   -1.0
REF     2.62 204 eP      16 18.17    0.1
VZW     2.63 133 eP      16 16.63   -1.4
VLZ     2.65 130 eP      16 16.73   -1.5
RS2     2.66 204 eP      16 19.42    0.9
RSO     2.66 204 eP      16 19.18    0.6
SEW     2.84 169 eP      16 19.84   -1.0
KNIM    2.88 151 ePc     16 19.10   -2.3
BRLK    3.14 183 ePc     16 24.61   -0.3
MTU     3.22 153 ePc     16 24.09   -2.0
CNPM    3.39 186 ePc     16 27.98   -0.4
TMW     3.45  79 ePd     16 27.81   -1.4
GLB     3.47 112 eP      16 27.65   -1.9
PDB     3.58 211 eP      16 30.23   -0.6
TGL     4.24 117 eP      16 37.78   -2.2
CDD     4.25 202 eP      16 39.80   -0.4
BALM    4.29 112 eP      16 38.58   -2.2
SYI     4.39 193 eP      16 41.37   -0.6
INK     8.87  45 eP      17 43.00   -0.4
```

18d 14h

57 obs. associated

• MAR 18, 1991 15h 17m 49.71± 0.86s
34.353 N ± 8.2km 86.200 E ±14.8km
DEPTH = 33.0km (normal)
4.0mb (3 obs.)
TIBET (306)

LSA	6.26	136	P	19	29.40	6.8X
			eS	20	41.00	
GUN	6.43	183	P	19	24.66	-0.2
GKN	6.47	192	P	19	24.08	-1.2
	0.6s		20.00nm			5.1mb X
KKN	6.59	187	P	19	28.20	1.2
	0.5s		23.00nm			5.3mb X
DMN	6.79	188	P	19	29.20	-0.6
	0.4s		19.00nm			5.3mb X
PKI	6.79	186	P	19	29.98	0.0
	0.4s		16.00nm			5.3mb X
WMO	9.53	7	eP	20	07.50	-0.2
	Z 10s		0.40um			
			eS	21	55.00	
HYB	18.20	204	eP	21	54.00	-7.6X
XAN	18.80	85	eP	22	08.00	-0.8
HHC	21.08	65	eP	22	33.70	0.2
TIY	21.46	73	eP	22	37.00	-0.3
GBA	22.13	203	Pc	22	39.60	-4.5X
	0.9s		2.70nm			3.7mb
WB2	70.80	132	iPd	29	06.10	1.0
	0.5s		3.70nm			4.7mb
ASPA	73.36	135	eP	29	21.30	1.0
	1.9s		2.70nm			3.9mb

S.D. = 0.9 on 11 of 14 obs.

MAR 18, 1991 16h 07m 55.98± 0.61s
42.373 N ± 5.2km 19.822 E ± 4.1km
DEPTH = 5.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.9 (TTG).

PVY	0.25	27	iPgc	08	00.92	-0.1
			iSg	08	04.72	
TTG	0.42	278	iPgc	08	03.92	-0.5
			iSg	08	12.37	
IVA	0.50	6	iPgc	08	06.05	0.0
			iSg	08	13.50	
ULC	0.59	226	iPgd	08	07.94	0.1
			iSg	08	18.52	
BDV	0.74	263	iPgd	08	10.75	-0.1
			iSg	08	23.29	
NKY	0.75	306	iPgc	08	11.44	0.3
			iSg	08	22.95	
HCY	0.98	275	iPgc	08	15.19	0.1
			iSg	08	31.87	
BRY	1.08	300	iPgd	08	16.84	0.0
			iSg	08	34.05	
SKO	1.27	108	ePn	08	20.00	0.0

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

& MAR 18, 1991 17h 03m 18.41s
60.331 N 153.413 W
DEPTH = 1.8km
SOUTHERN ALASKA (2)
<AEIC>. ML 3.2 (PMR).

RED	0.33	74	iPd	03	25.58	0.6
			iS	03	30.37	
NCT	0.33	46	iPc	03	25.70	0.6
			iS	03	30.37	
RS2	0.35	68	ePc	03	26.06	0.6
RSO	0.35	68	iPd	03	26.12	0.6
RDN	0.37	60	iPd	03	26.61	0.8
REF	0.39	65	iPd	03	26.60	0.4
RDT	0.56	64	iPd	03	29.43	-0.1
			iS	03	37.09	
PDB	0.67	216	iPc	03	31.00	-0.8
			eS	03	40.20	
AUH	0.97	181	ePc	03	37.15	-0.5
AUE	0.98	179	ePd	03	36.86	-0.8
AUI	1.00	180	ePd	03	37.68	-0.4
			eS	03	51.33	
CKL	1.02	31	iPc	03	37.73	-0.8
BGL	1.06	28	iPc	03	38.62	-0.6
			iS	03	53.18	
SPU	1.08	37	iPc	03	38.61	-1.0
			eS	03	53.20	
NNL	1.10	104	iPd	03	40.32	0.6
HOM	1.12	126	eP	03	40.07	0.0
			iS	03	55.71	
CRP	1.12	33	iPc	03	39.87	-0.5
			iS	03	55.52	
NKA	1.15	68	ePd	03	41.72	1.0
XLV	1.22	135	eP	03	41.38	-0.6
			iS	03	57.91	
NCG	1.24	29	iPc	03	41.69	-0.6
			eS	03	58.77	
MCNL	1.24	203	iPc	03	40.69	-1.5
			iS	03	56.70	
SVW	1.34	307	ePd	03	43.80	-0.1
CNPM	1.36	125	ePd	03	43.09	-1.2
			eS	04	00.94	
BRLK	1.39	113	ePd	03	43.61	-1.2
			iS	04	01.88	
CDD	1.41	185	ePd	03	44.24	-0.9
			eS	04	02.45	
SLKM	1.59	82	iPd	03	46.78	-1.0
			iS	04	07.56	
SUA	1.73	48	ePc	03	49.49	-0.3
			eS	04	12.27	
SYI	1.80	163	eP	03	49.35	-1.4
SKT	1.89	28	ePc	03	52.44	0.4
			eS	04	18.00	
SEW	1.99	95	eP	03	53.47	0.0
			eS	04	19.15	
PMS	2.10	62	eP	03	55.31	0.2
			eS	04	20.83	
PWA	2.17	51	eP	03	57.28	1.2
			eS	04	24.85	
PLRM	2.44	57	eP	04	00.32	0.4
PMR	2.44	57	eP	04	01.20	1.2
CUT	2.57	35	eP	04	02.54	0.7
GHO	2.62	55	iPc	04	03.71	1.2
KNK	2.66	64	iPc	04	03.98	0.9
LTI	2.79	94	eP	04	05.18	0.2
KNIM	2.82	87	eP	04	04.82	-0.6
TTA	2.89	336	eP	04	05.60	-0.8
MTU	2.90	94	iPc	04	06.67	0.1
GLI	3.16	77	ePc	04	09.19	-1.0
TRF	3.46	24	eP	04	15.49	0.8
VLZ	3.57	74	eP	04	15.57	-0.3
RND	3.77	33	eP	04	21.07	2.2
KLU	3.84	69	ePc	04	19.35	-0.6
TOA	3.93	60	eP	04	22.00	0.9
IMA	5.76	359	eP	04	46.10	-1.0

48 obs. associated

% MAR 18, 1991 17h 11m 04.74± 0.79s
42.134 N ± 6.6km 19.092 E ± 6.1km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.7 (TTG).

ULC	0.21	145	iPgc	11	09.15	-0.1
			iSg	11	12.53	
BDV	0.25	307	iPgd	11	10.57	0.6
			iSg	11	14.28	
TTG	0.32	23	iPgd	11	11.40	0.0
			iSg	11	17.33	
HCY	0.54	306	iPgc	11	15.38	-0.3
			iSg	11	24.28	
NKY	0.68	354	iPgc	11	17.90	-0.4
			iSg	11	29.10	
PVY	0.80	54	iPgc	11	20.62	0.3
			iSg	11	33.10	
BRY	0.87	332	iPgd	11	21.50	0.0
			iSg	11	35.07	

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

? MAR 18, 1991 18h 21m 15.83± 5.32s
23.253 N ±17.4km 120.102 E ±36.2km
DEPTH = 10.0km (geophysicist)
TAIWAN (244)

TWK	0.36	88	iPd	21	23.40	0.2
			eS	21	30.80	
TWG	0.99	116	eP	21	34.70	0.1
			eS	21	49.60	
TWF1	1.10	85	eP	21	36.20	-0.4
TWO	1.22	33	eP	21	38.60	0.1

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

• MAR 18, 1991 18h 40m 45.02± 2.01s
16.936 N ±22.4km 101.094 W ± 9.4km
DEPTH = 33.0km (normal)
4.1mb (1 obs.)
NEAR COAST OF GUERRERO, MEXICO (58)

III	2.11	47	iP	41	18.76	-0.1
			iS	41	43.55	
MRX	2.76	358	iP	41	29.34	1.5
			(S)	41	58.00	
UNM	3.00	37	(P)	41	35.00	3.4X
PPM	3.16	48	iP	41	32.33	-1.8
			iS	42	08.65	
IIT	3.37	52	(P)	41	36.47	-0.4
			(S)	42	19.00	
CGX	3.55	321	(P)	41	39.00	-0.4
SMMM	3.57	38	(P)	41	19.10	-20.4X
IISM	4.08	59	iP	41	47.61	0.9
			(S)	42	36.77	
OXX	4.18	87	iP	41	49.37	1.0
			(S)	42	35.51	
LVVM	5.22	57	(P)	42	20.00	17.2X
ANMO	18.57	346	P	45	02.00	0.5
			pP	45	09.00	
TNP	25.38	329	P	46	12.20	1.0
			e	46	19.80	27kmX
YKA	46.49	351	eP	49	09.30	-1.3
	0.8s		1.70nm			4.1mb
INK	55.31	346	eP	50	16.50	-0.9

S.D. = 1.2 on 11 of 14 obs.

% MAR 18, 1991 20h 35m 48.15± 0.97s
40.675 N ± 6.2km 23.475 E ± 8.4km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 2.2 (THE).

THE	0.39	264	ePd	35	55.50	-0.6
			eS	36	00.18	
SRS	0.45	11	ePc	35	57.58	0.2
			iS	36	04.53	
KNT	0.65	318	ePc	36	01.06	-0.1
PAIG	0.76	168	ePc	36	02.58	-0.5
			eS	36	13.34	
GRG	0.86	289	ePd	36	04.70	-0.1
			eS	36	15.54	
LIT	0.95	233	ePc	36	07.30	1.1
			eS	36	19.62	

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

? MAR 18, 1991 20h 49m 43.96± 3.70s
6.196 S ±21.4km 130.756 E ±21.0km
DEPTH = 145.1 ± 40.4 km
4.6mb (7 obs.)
BANDA SEA (280)

MTN	6.62	177	eP	51	20.60	0.6
	0.3s		203.00nm			6.0mb X
			eS	52	32.00	
KNA	9.69	191	iPc	52	00.10	-1.0
	0.2s		20.00nm			5.4mb
			eS	53	41.00	
WB2	14.11	166	eP	52	57.10	-1.5
	0.2s		4.00nm			4.4mb
			iS	55	27.80	
ASPA	17.63	170	iPd	53	44.50	2.3
	0.3s		10.00nm			4.6mb
			iS	56	49.40	
MBL	18.25	214	eP	53	49.00	-0.1
	0.4s		4.00nm			4.1mb
CHTO	40.01	309	P	57	07.20	0.9
GUN	55.00	310	P	59	03.40	0.3
	0.5s		8.00nm			4.8mb
PKI	55.18	310	P	59	04.20	-0.2
KKN	55.39	310	P	59	06.00	0.2
DMN	55.44	310	P	59	06.60	0.5
GKN	55.99	310	P	59	10.00	0.0
	0.5s		7.00nm			4.9mb
GBA	56.47	291	Pd	59	12.10	-1.2
	0.6s		1.30nm			4.0mb
FBA	91.94	25	(P)	02	36.00	-0.8

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

MAR 18, 1991 21h 25m 56.45± 0.36s
38.737 N ± 3.0km 27.916 E ± 3.9km
DEPTH = 11.8 ± 2.7 km
TURKEY (366)
Felt in the Burhaniye area.

IZM	0.61	237	iPg	26	07.80	-0.9

			eSg	26	19.60	
DST	1.03	32	iPn	26	15.60	-0.2
CIN	1.14	173	ePg	26	17.00	-0.7
			iSg	26	32.00	
KHL	1.33	108	iPn	26	20.30	-0.5
KCT	1.55	13	iPn	26	23.90	0.0
EDC	1.61	359	iPn	26	25.00	0.3
BNT	1.62	0	iPn	26	24.90	0.0
YER	1.63	170	ePn	26	25.00	0.0
EZN	1.65	312	iPn	26	25.60	0.4
ALT	1.74	79	iPn	26	26.80	0.0
YLV	2.15	31	iPn	26	32.40	-0.2
GBZT	2.36	29	ePn	26	41.20	5.6X
			iSg	27	13.50	
GPA	2.41	49	iPn	26	37.10	0.7
CTT	2.44	9	ePn	26	35.90	-0.8
BCK	2.46	120	iPn	26	37.90	0.8
HRT	2.48	32	ePn	26	37.50	0.2
ISK	2.49	20	ePn	26	37.00	-0.3
ITU	2.51	19	ePn	26	46.00	8.3X
			iSg	27	16.00	
EYL	2.52	43	ePn	26	37.00	-0.9
ELL	2.54	141	ePn	26	39.40	1.2
DMK	3.08	358	ePn	26	45.10	-0.7
KDZ	3.48	327	iP	26	52.00	0.5
RZN	3.83	321	iP	26	57.00	0.3
PLD	4.16	325	eP	27	02.00	0.9
PGB	4.76	324	eP	27	04.00	-5.7X
VAY	4.85	304	eP	27	17.00	6.1X

S.D. = 0.6 on 22 of 26 obs.

% MAR 18, 1991 21h 52m 05.85± 0.61s
46.297 N ± 7.6km 2.554 E ± 5.6km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 1.6 (LDG).

MAF	0.08	173	Pg	52	08.40	0.1
			Sg	52	10.60	
TCF	0.24	268	Pg	52	11.20	0.2
			Sg	52	14.70	
BGF	0.33	38	Pg	52	12.90	0.2
LSF	0.71	267	Pg	52	19.60	-0.3
			Sg	52	29.10	
AVF	0.74	48	Pg	52	20.00	-0.4
			Sg	52	30.30	
SMF	0.96	68	Pg	52	24.00	-0.1
			Sg	52	36.00	
SSF	1.01	40	Pg	52	25.10	0.2
			Sg	52	38.00	

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

? MAR 18, 1991 21h 56m 32.19± 1.10s
36.179 N ±11.3km 137.288 E ±29.9km
DEPTH = 281.5 ± 11.2 km
4.3mb (5 obs.)
HONSHU, JAPAN (227)

MAT	0.83	64	iPc	57	11.00	1.0
			eS	57	40.00	
MRRJ	6.89	24	P	58	12.60	0.1
HOOJ	7.75	35	P	58	22.90	-0.2
			eS	59	46.70	
ASAJ	8.92	26	P	58	36.70	-1.1
KUSJ	8.97	37	P	58	37.50	-0.9
			eS	00	11.70	
W82	55.89	183	iPd	05	42.90	-0.3
	0.2s		11.20nm		5.0mb	
WRA	55.89	183	P	05	42.00	-1.2
	0.3s		4.40nm		4.4mb	
INK	56.64	26	eP	05	49.50	1.5
M8C	58.27	16	eP	06	00.50	1.2
ASPA	59.61	184	eP	06	09.50	0.6
	0.4s		4.50nm		4.4mb	
HFS	73.46	334	eP	07	34.20	-1.0
	0.4s		0.90nm		3.9mb	
NB2	73.65	336	P	07	36.50	0.1
	0.7s		1.90nm		3.9mb	

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

& MAR 18, 1991 22h 30m 14.53s
60.638 N 150.998 W
DEPTH = 61.8km
2.9mb (1 obs.)
KENAI PENINSULA, ALASKA (14)
<AEIC>. Felt (II) at Anchorage.

NKA	0.16	312	iPd	30	25.54	1.5
SLKM	0.41	108	iPc	30	25.72	-0.1
NNL	0.62	194	ePd	30	28.61	0.6
RDT	0.70	265	iPc	30	28.23	-0.8
			iS	30	39.81	
SPU	0.75	317	iPd	30	29.09	-0.6
			iS	30	40.99	
CGLM	0.83	324	eP	30	30.55	-0.2
SUA	0.84	8	iPd	30	30.19	-0.6
			iS	30	43.26	
CRP	0.85	319	iPd	30	30.67	-0.3
REF	0.85	261	iPc	30	30.33	-0.8
			iS	30	42.76	
CKL	0.86	311	iPd	30	30.48	-0.6
BRLK	0.88	176	ePd	30	30.59	-0.6
			eS	30	43.05	
RDN	0.88	263	iPc	30	30.42	-0.9
			iS	30	43.26	
RSO	0.89	259	iPc	30	30.75	-0.7
RS2	0.89	259	iPc	30	30.79	-0.7
RED	0.90	257	iPc	30	30.71	-0.9
			iS	30	43.75	
BGL	0.93	313	iPd	30	31.44	-0.5
			eS	30	44.91	
PMS	0.93	48	iPc	30	31.62	-0.3
SEW	0.94	124	iPc	30	30.91	-1.0
			eS	30	43.73	
NCG	0.95	324	iPd	30	31.77	-0.5
			eS	30	44.85	
NCT	0.96	266	iPc	30	31.56	-0.7
			iS	30	44.75	
HOM	1.03	198	iPd	30	33.04	-0.2
			eS	30	47.94	
CNPM	1.12	186	iPd	30	33.71	-0.7
			iS	30	48.72	
PWA	1.15	28	ePc	30	34.34	-0.5
			iS	30	50.79	
XLV	1.24	197	eP	30	33.80	-2.2
PLRM	1.32	43	iPc	30	35.97	-1.1
			S	30	52.35	
PMR	1.32	43	iPc	30	36.50	-0.6
SKT	1.37	349	iPd	30	36.97	-0.9
			eS	30	54.74	
KNK	1.46	57	iPc	30	38.01	-1.1
			eS	30	56.10	
GHO	1.52	41	iPc	30	38.83	-1.1
			eS	30	58.47	
KNIM	1.64	99	iPc	30	39.10	-2.4
			eS	30	59.47	
AUE	1.75	224	eP	30	42.36	-0.7
AUH	1.77	225	eP	30	43.39	0.0
AUI	1.79	224	eP	30	43.47	-0.1
MTU	1.79	110	iPc	30	41.57	-2.0
CUT	1.81	11	eP	30	42.78	-1.0
PDB	1.81	243	eP	30	42.19	-1.7
GLI	1.93	81	ePc	30	42.79	-2.8
SCM	2.14	54	ePc	30	47.13	-1.5
SYI	2.15	200	ePd	30	47.47	-1.2
			eS	31	13.01	
CDD	2.17	219	ePd	30	47.89	-1.1
			iS	31	15.03	
VZW	2.22	77	ePc	30	47.22	-2.4
MCNL	2.23	231	eP	30	48.42	-1.3
			eS	31	14.27	
SVW	2.31	284	iPc	30	48.70	-2.2
VLZ	2.33	76	ePc	30	48.78	-2.4
KLU	2.61	69	iPc	30	53.12	-2.1
TOA	2.75	56	ePc	30	56.50	-0.6
SDG	3.22	52	eP	31	01.97	-1.8
MCK	3.25	16	eP	31	04.13	-0.1
TTA	3.31	316	eP	31	03.80	-1.3
PAX	3.52	46	iPc	31	06.59	-1.4
GLB	3.59	74	iPc	31	06.04	-2.9
BWN	3.62	11	eP	31	08.64	-0.7
DDM	3.97	35	eP	31	13.36	-1.0
TGL	4.02	85	eP	31	11.19	-3.8
NEA	4.05	12	eP	31	13.87	-1.5
WRH	4.08	18	eP	31	14.01	-1.7
HDA	4.22	25	eP	31	16.45	-1.3
BALM	4.25	81	ePc	31	14.63	-3.7
CCB	4.28	19	ePd	31	16.59	-2.1
RDS	4.40	16	ePd	31	18.60	-1.7
MDM	4.52	15	eP	31	20.23	-1.7
FBA	4.52	18	iPc	31	20.80	-1.2
GLM	4.67	19	eP	31	22.06	-2.0
CTGM	4.75	82	eP	31	22.60	-2.7
IMA	5.58	349	eP	31	37.40	0.4

YKA	17.28	68	eP	34	08.80	-3.9
	0.6s		0.60nm		2.9mb	
	66 obs. associated					

? MAR 18, 1991 23h 02m 02.77± 3.63s
15.237 N ±39.0km 61.235 W ±45.8km
DEPTH = 110.0km (geophysicist)
LEEWARD ISLANDS (92)

BBL	0.37	321	eP	02	19.00	-0.1
PAG	0.90	332	eP	02	23.50	0.2
			S	02	41.00	
DEG	1.08	9	eP	02	25.30	0.1
			S	02	43.80	
SEG	1.19	347	eP	02	26.00	-0.3

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

% MAR 18, 1991 23h 10m 54.94± 0.67s
16.178 N ± 7.1km 61.394 W ± 6.0km
DEPTH = 10.0km (geophysicist)
LEEWARD ISLANDS (92)
ML 1.7 (FDF).

SFG	0.20	69	iPd	11	00.01	0.6
SEG	0.25	335	iPc	10	59.88	-0.3
			S	11	03.80	
DOG	0.26	236	ePd	11	00.85	0.4
			S	11	04.70	
PAG	0.31	242	eP	11	01.60	0.1
			S	11	06.40	
DEG	0.35	67	ePd	11	01.82	-0.3
			S	11	06.80	
BBL	0.66	187	eP	11	07.40	-0.6

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

MAR 18, 1991 23h 28m 53.26± 0.41s
39.288 N ± 4.5km 20.454 E ± 2.5km
DEPTH = 10.0km (geophysicist)
4.4mb (10 obs.)
GREECE-ALBANIA BORDER REGION (392)
ML 4.7 (ROM). MD 4.1 (TTG).

IGT	0.26	339	ePc	29	00.00	1.2
LSK	0.87	7	iPgc	29	10.90	0.9
TPE	1.06	341	iPnd	29	14.50	1.2
KBN	1.36	12	ePn	29	18.80	0.6
VLO	1.39	328	iPnd	29	21.40	2.8
AGG	1.48	100	eP	29	19.00	-1.0
FNA	1.65	25	eP	29	23.10	0.6
LIT	1.77	62	ePc	29	24.04	-0.1
			eS	29	49.80	
OHR	1.84	8	iPnc	29	28.00	2.8
			iSn	29	54.40	
TIR	2.10	348	ePn	29	31.30	2.4
LCI	2.19	299	P	29	30.30	0.1
			eSn	30	00.00	
GRG	2.24	41	iPd	29	32.06	1.1
			eS	30	00.60	
THE	2.35	54	iPd	29	33.72	1.2
			eS	30	03.40	
PHP	2.40	360	iPnd	29	35.30	2.2
LACI	2.41	347	ePn	29	34.60	1.3
PAIG	2.57	75	ePd	29	35.64	0.0
VAY	2.60	38	iPn	29	36.80	0.8
			iSn	30	06.50	
			LQ	30	28.60	
KNT	2.65	44	ePc	29	37.96	1.2
			eS	30	11.92	
SOH	2.70	55	eP	29	37.60	0.0
SKO	2.78	15	iPn	29	39.70	1.0
			iPg	29	46.10	
			i	29	51.00	
			iSn	30	17.00	
			iSg	30	22.70	
			i	30	24.00	
			LQ	30	34.00	
			LR	30	42.00	
KKS	2.78	359	ePn	29	41.30	2.7
ULC	2.83	341	iPnd	29	39.84	0.6
			iSn	30	18.19	
BRT	2.96	304	P	29	43.50	2.4
SRS	3.02	52	ePc	29	42.00	0.0
			eS	30	18.72	
BCI	3.09	355	iPnd	29	45.10	2.2
GRI	3.18	263	P	29	45.59	1.4
ORI	3.19	285	P	29	45.30	0.9
			eSn	30	27.10	

18d 23h

TDS	3.21	278	P	29	47.20	2.5	MME	8.78	307	P	31	02.50	-0.9	FDF	1.89	225	eP	42	28.27	0.3
			eSn	30	26.70		VVI	8.93	321	P	31	03.20	-2.0				S	42	52.70	
BDV	3.24	338	iPnc	29	44.76	-0.3				eSn	32	41.50		BIM	2.00	220	iPc	42	29.44	-0.1
			iSn	30	26.99		FVI	9.21	325	P	31	06.70	-2.3				S	42	54.50	
BAI	3.30	305	P	29	46.00	0.0				eSn	32	46.60		SLW	2.33	209	eP	42	34.18	-0.2
PVY	3.32	354	iPnc	29	47.89	1.5	ZST	9.23	346	e(P)	31	07.60	-1.7				eS	43	03.40	
			iSn	30	32.31		PGF	9.26	294	eP	31	11.00	1.1	SLB	2.55	209	eP	42	37.68	0.2
MMB	3.39	46	eP	29	48.00	0.6		1.3s		39.70nm			5.6mb X				eS	43	07.48	
			iSg	30	32.00		KBA	9.35	329	iPc	31	09.30	-1.9	SVV	3.08	207	eP	42	45.36	0.4
HCY	3.49	335	iPnc	29	48.01	-0.6				i	31	23.10					eS	43	21.98	
			iSn	30	31.94					iS	32	51.20			S.D. = 0.5		on 14 of 14 obs.			
IVA	3.60	353	iPnd	29	51.53	1.2				i	32	54.60		----------						
			iSn	30	37.91		CTI	9.36	319	P	31	10.00	-1.2	* MAR 19, 1991 00h 07m 56.39± 0.77s						
SOI	3.65	252	P	29	52.00	1.0				eSn	32	50.00		38.710 N ± 7.4km 27.950 E ±12.4km						
			eSn	30	36.80		BBTK	9.52	83	eP	31	32.00	18.5X	DEPTH = 10.0km (geophysicist)						
NKY	3.69	343	iPnc	29	51.61	0.0	BOB	9.85	307	P	31	18.70	0.8	TURKEY					(366)	
			iSn	30	38.26		SPC	9.90	359	eP	31	17.00	-1.7							
GMB	3.76	254	P	29	54.11	1.4	BHG	10.06	329	iPd	31	20.20	-0.6	IZM	0.62	240	ePg	08	09.20	0.2
MGR	3.87	284	P	29	56.60	2.5	SQTA	10.40	323	iPc	31	24.30	-1.3				eSg	08	17.20	
BRY	3.89	339	iPnd	29	53.91	-0.5				ic	31	24.80		DST	1.04	30	ePn	08	15.50	-0.5
			iSn	30	42.63					iS	33	17.20		CIN	1.11	174	ePg	08	17.00	-0.3
RZN	4.04	52	iPd	29	58.00	1.4				i	33	18.90					iSg	08	32.00	
ATN	4.06	255	P	29	58.20	1.4				i	33	23.70		KCT	1.57	11	ePn	08	24.00	-0.3
PLE	4.12	349	iPnd	29	58.16	0.5	VAI	10.83	311	P	31	30.30	-1.0	BNT	1.64	359	ePn	08	25.00	-0.4
			iSn	30	50.31		KHC	11.00	336	P	31	31.50	-2.2	YLV	2.16	30	ePn	08	34.20	1.3
SGO	4.15	289	P	30	00.60	2.5	PRU	11.49	341	eP	31	39.50	-0.8		S.D. = 0.9		on 6 of 6 obs.			
PGB	4.30	40	iP	30	01.00	0.7	N	11s		0.50um				----------						
KDZ	4.46	56	eP	30	01.00	-1.5	E	11s		0.80um				& MAR 19, 1991 02h 35m 28.68s						
ALN	4.58	68	ePd	30	03.08	-1.1				e	32	05.70		46.625 N 122.132 W						
MNO	4.71	255	P	30	07.00	0.7				e	34	14.50		DEPTH = 15.9km						
			eSn	31	02.30		LPG	11.87	306	eP	31	45.10	-0.7	WASHINGTON					(29)	
MEU	4.87	245	P	30	07.00	-1.4		0.8s		9.40nm			5.1mb	<SEA>. CL 2.4 (SEA).						
PZI	4.91	244	P	30	06.71	-2.2	LPL	11.89	306	eP	31	44.80	-1.2							
HVAR	4.92	323	ePn	30	07.90	-1.1		0.6s		3.60nm			4.8mb	LMW	0.12	291	Pd	35	32.28	-0.2
			iSn	31	04.10		MOX	12.95	334	e(P)	31	59.00	-0.9				S	35	35.39	
DUI	5.15	299	P	30	13.00	0.7	BSF	13.06	315	eP	31	59.10	-2.5	KOSW	0.17	194	Pd	35	32.85	-0.3
GIB	5.20	258	P	30	14.00	1.0	HAU	13.41	315	eP	32	03.80	-2.2	LON	0.25	60	P	35	36.18	1.7
RFI	5.34	294	P	30	16.76	1.9		0.5s		2.90nm			4.6mb	REMR	0.28	46	Pc	35	34.36	-0.7
IZM	5.39	97	ePn	30	15.00	-0.7	Z	20s		0.08um			4.5Msz				S	35	38.79	
BEO	5.53	0	ePn	30	16.50	-1.1	SMF	14.20	307	eP	32	15.50	-0.9	TDL	0.28	192	Pd	35	34.32	-0.7
SDI	5.61	298	P	30	19.10	0.3		0.6s		5.40nm			4.4mb				S	35	38.97	
JMB	5.63	54	eP	30	19.00	0.0	LBF	14.26	308	eP	32	16.10	-1.2	CZM	0.32	234	P	35	35.09	-0.5
USI	5.70	266	P	30	19.60	-0.4	LOR	14.46	309	eP	32	18.60	-1.3				S	35	40.27	
AZI	5.98	299	P	30	26.40	2.5	Z	20s		0.08um				RVC	0.34	19	Pd	35	35.26	-0.7
DMK	6.11	63	ePn	30	24.30	-1.5	BGF	14.79	305	eP	32	22.20	-1.9				S	35	40.32	
AQU	6.16	302	P	30	28.70	2.1		0.6s		2.70nm			3.9mb	ERK	0.35	204	Pd	35	35.40	-0.8
KCT	6.16	79	ePn	30	29.80	3.3X	UPP	20.67	356	iP	33	32.10	-3.4X				S	35	40.35	
ALP	6.26	306	iPn	30	28.03	0.0	HFS	21.30	351	eP	33	39.20	-2.8	APW	0.36	274	Pc	35	35.76	-0.4
			eSn	31	37.60			0.5s		3.80nm			4.0mb				S	35	41.35	
DST	6.33	85	ePn	30	29.00	0.0	Z	15s		0.09um			3.3MszX	GLK	0.37	99	Pc	35	35.75	-0.7
CTT	6.38	71	iPn	30	27.80	-1.8				LR	41	30.00					S	35	41.46	
BZS	6.38	7	eP	30	29.50	-0.1	EKA	22.50	323	Pd	33	53.30	-0.7	SOSW	0.39	180	Pc	35	35.89	-0.9
YER	6.53	107	ePn	30	31.00	-0.8		1.1s		17.90nm			4.5mb	STD	0.39	189	Pd	35	36.14	-0.8
SSO	6.64	309	e(Pn)	30	32.36	-0.9	NB2	22.52	348	P	33	52.40	-1.9	WPW	0.41	79	Pc	35	36.45	-0.7
MNS	6.66	300	P	30	35.60	2.0		0.9s		6.20nm			4.1mb	GHW	0.43	347	Pd	35	36.53	-0.9
AOI	6.68	312	ePn	30	33.25	-0.6	GKN	53.60	81	P	38	11.96	-5.1X	SHW	0.44	190	Pd	35	37.07	-0.6
			eSn	31	48.00			0.6s		6.00nm			4.7mb	FMW	0.44	46	Pc	35	37.03	-0.7
CIO	6.75	308	iPn	30	34.64	-0.3	DMN	54.16	82	P	38	16.12	-5.1X				S	35	43.33	
			iSn	31	48.75		KKN	54.20	81	P	38	16.30	-5.2X	FL2	0.45	199	Pd	35	37.12	-0.8
YLV	6.97	77	eP	30	40.30	2.3	PKI	54.41	81	P	38	17.46	-5.7X				S	35	43.45	
ASS	6.99	305	P	30	39.70	1.5	GUN	54.60	81	P	38	21.06	-3.6X	JLK	0.48	182	Pd	35	37.61	-0.7
ARV	7.04	309	P	30	37.70	-1.2	YKA	72.33	340	eP	40	18.80	-1.8	LVP	0.59	199	Pd	35	39.44	-0.8
KHL	7.15	95	ePn	30	40.00	-0.5		0.8s		0.80nm			3.9mb	ASR	0.60	142	Pd	35	39.61	-0.9
VBY	7.30	330	ePnd	30	41.40	-1.1	PV09	89.83	323	eP	41	53.50	-0.4	GSM	0.62	22	P	35	39.87	-1.0
			eSn	32	03.10		S.D. = 1.4			on 119 of 128 obs.				RVW	0.64	222	Pd	35	40.03	-1.0
ISR	7.39	36	ePd	30	44.50	0.8	----------							MEW	0.68	329	P	35	41.46	-0.2
MLR	7.41	31	ePd	30	44.50	0.4	* MAR 18, 1991 23h 41m 56.80± 4.73s							BMW	0.77	259	Pc	35	42.44	-0.9
ALT	7.51	89	iP	30	45.80	0.3	16.070 N ±18.6km 59.758 W ±37.9km							CPW	0.77	297	Pd	35	42.50	-0.8
RIY	7.54	325	ePn	30	43.90	-1.8	DEPTH = 25.1 ± 4.4 km							GULW	0.79	152	P	35	42.95	-0.8
RSM	7.58	310	P	30	46.40	0.1	LEEWARD ISLANDS						(92)	RMW	0.86	15	P	35	43.95	-1.0
CRE	7.72	307	P	30	47.00	-1.4	MD 3.7 (TRN). ML 3.5 (FDF).							NAC	0.91	83	P	35	45.54	-0.1
CVO	7.77	31	ePd	30	50.00	0.9								APM	0.94	160	P	35	45.40	-0.8
CEY	7.83	327	ePnd	30	48.80	-1.1	DEG	1.27	281	eP	42	18.74	-0.4	TWW	1.01	59	P	35	47.14	-0.2
			eSn	32	17.00					S	42	37.00		GMW	1.03	334	Pd	35	46.21	-1.4
SFI	7.93	308	P	30	51.30	0.0	SFG	1.39	278	eP	42	20.00	-0.8	NLO	1.06	240	Pc	35	47.50	-0.7
PGD	7.99	308	P	30	53.02	0.7	SEG	1.71	281	eP	42	25.73	0.4	SMW	1.08	310	Pd	35	47.58	-1.0
LJU	8.04	329	ePn	30	51.00	-1.8				S	42	47.80		VLMM	1.09	177	P	35	48.17	-0.6
			eSn	32	21.00		CRM	1.72	221	eP	42	25.18	-0.3	YAKW	1.11	95	P	35	49.34	0.3
VRI	8.04	33	ePd	30	53.00	0.2	BBL	1.74	252	eP	42	25.31	-0.6	EBG	1.11	75	Pc	35	49.00	-0.1
TRI	8.10	325	iPnd	30	51.50	-2.1				S	42	46.50		GL2	1.13	126	P	35	49.20	-0.2
			iSn	32	20.50		MDN	1.75	245	eP	42	26.16	0.2	PGO	1.18	191	P	35	49.89	-0.4
CFR	8.20	42	ePd	30	54.40	-0.7				eS	42	49.90		TBM	1.18	62	P	35	50.32	-0.1
VOY	8.29	326	ePn	30	54.70	-1.7	DOG	1.79	269	eP	42	27.10	0.6	HDW	1.20	329	P	35	48.88	-1.8
			eSn	32	26.00					S	42	51.00		VLL	1.20	165	P	35	50.12	-0.6
PSZ	8.64	357	eP	31	07.30	6.1X	PAG	1.85	269	eP	42	28.00	0.6	HTW	1.20	12	P	35	49.57	-1.1
BDI	8.78	306	P	31	03.70	0.4				S	42	52.10		MXC	1.27	91	P	35	51.67	0.0
			eSn	32	38.00		MVM	1.86	216	iPc	42	27.24	-0.4	KMOR	1.37	224	P	35	51.89	-1.3

19d 02h

GT2	1.47	184	P	35	54.30	-0.3			iSn	39	05.01		KBA	9.40	329	iPd	39	20.70	-2.1
BLN	1.50	338	Pc	35	53.79	-1.1	SGO	4.18	290	P	38	11.00	1.7			ic	39	21.20	
ETW	1.57	51	P	35	56.66	0.5	PLD	4.31	47	ePg	38	13.00	1.7			i	39	29.50	
JCW	1.58	5	Pd	35	55.76	-0.3	PGB	4.34	39	iPc	38	13.00	1.3			iS	41	03.30	
VBEM	1.61	166	P	35	57.24	0.5	KDZ	4.48	56	iP	38	13.00	-0.7			i	41	07.70	
RPW	1.87	13	P	36	00.80	0.4	MNO	4.70	256	P	38	18.70	1.6	CTI	9.40	319	P	39	20.00	-2.7
MCW	2.11	347	P	36	04.25	0.4				eSn	39	12.80					eSn	41	02.00	
MBW	2.17	4	P	36	05.40	0.6	MEU	4.85	246	P	38	18.20	-0.9	VKA	9.50	343	e(P)	39	23.00	-1.0
52 obs. associoted										eSn	39	15.30					LR	43	47.00	
							PZI	4.90	245	P	38	17.70	-2.0				e	53	49.00	
MAR 19, 1991 02h 37m 04.23± 0.31s							HVAR	4.96	324	ePn	38	19.60	-0.9	BBTK	9.52	82	eP	39	16.00	-8.5X
39.242 N ± 3.6km 20.461 E ± 2.4km							DUI	5.18	300	P	38	25.70	2.0				e	39	33.00	
DEPTH = 10.0km (geophysicist)							GIB	5.19	258	P	38	24.00	0.1	SAL	9.71	314	P	39	26.81	-0.1
4.9mb (32 obs.)							RFI	5.36	295	P	38	28.28	2.1	BOB	9.88	308	P	39	27.30	-2.1
GREECE-ALBANIA BORDER REGION (392)							IZM	5.38	97	eP	38	27.70	1.2	KMR	9.93	335	iPn+	39	27.90	-2.0
ML 4.8 (ROM), 4.5 (TTG).							PVL	5.41	41	iPd	38	26.00	-0.8				iSn	41	22.30	
							SDI	5.63	298	P	38	32.00	1.9	SPC	9.95	359	eP	39	29.50	-0.8
IGT	0.31	341	iPd	37	12.04	1.4	JMB	5.65	53	eP	38	30.00	-0.3	BHG	10.10	329	eP	39	31.10	-1.2
			eS	37	21.16		FAI	5.69	252	P	38	31.60	0.8	SOTA	10.44	323	iPd	39	36.00	-1.1
SRN	0.73	331	iPg	37	19.60	1.1	USI	5.70	267	P	38	30.30	-0.7				ic	39	36.50	
LSK	0.91	7	iPgc	37	21.10	-0.7	AZI	6.01	299	P	38	37.60	2.3				i	39	50.10	
TPE	1.11	342	iPnc	37	25.60	0.6	BLY	6.02	337	eP	38	35.10	-0.3				iS	41	28.20	
KBN	1.41	11	ePn	37	30.60	0.8				eS	39	26.10		CKI	10.46	304	P	39	37.80	0.6
VLO	1.43	329	iPnc	37	33.00	2.8	DRA	6.12	26	ePd	38	42.00	5.1X	SBF	10.80	299	eP	39	44.10	2.2
LIT	1.79	61	ePc	37	35.92	0.6	DMK	6.13	63	iP	38	36.40	-0.6		0.8s		18.80nm			5.5mb
OHR	1.89	8	iPnc	37	40.20	3.4X	KCT	6.17	78	eP	38	38.60	1.0	VAI	10.86	311	P	39	40.80	-1.9
			iSn	38	08.60		AQU	6.19	302	P	38	38.70	0.8	KHC	11.05	336	Pd	39	42.40	-2.8
			LQ	38	21.80		CIN	6.21	103	eP	38	40.00	1.9		1.0s		7.00nm			5.0mb
TIR	2.15	348	iPnc	37	42.70	2.1	ALP	6.29	306	iPn	38	40.06	0.6	ORO	11.21	309	P	39	47.70	0.1
LCI	2.22	300	Pc	37	42.00	0.4				iSn	39	46.80		WET	11.29	334	eP	39	44.80	-3.8X
			eSn	38	11.00		DST	6.33	84	eP	38	40.00	0.0	PRU	11.54	341	eP	39	50.00	-1.9
GRG	2.27	40	ePd	37	43.62	1.3	CTT	6.39	70	iP	38	40.10	-0.7		1.5s		22.30nm			5.3mb
THE	2.37	53	ePc	37	44.68	0.9	BZS	6.43	7	eP	38	40.00	-1.2		Z 13s		1.50um			4.3Msz
PHP	2.44	360	iPnc	37	46.90	2.2				e	53	01.00			N 12s		1.00um			
LACI	2.46	347	iPnc	37	46.60	1.6	YER	6.51	106	ePn	38	43.00	0.5		E 12s		1.80um			
PAIG	2.58	74	iPc	37	47.32	0.6	BUC	6.66	37	ePd	38	40.50	-4.0X	LPG	11.90	306	eP	39	56.60	-0.6
			eS	38	17.48		SSO	6.67	310	e(Pn)	38	45.11	0.4		0.6s		11.70nm			5.4mb
VAY	2.63	37	iPnc	37	48.70	1.3	MNS	6.68	300	P	38	46.00	1.1	LPL	11.93	306	eP	39	56.40	-1.0
			iSn	38	14.30		AOI	6.72	312	ePn	38	44.15	-1.2		0.6s		9.90nm			5.3mb
			i	38	16.00					eSn	39	54.00		KSP	11.97	347	eP	40	00.00	2.3
			LQ	38	16.00		COZ	6.72	24	ePd	38	47.00	1.5				e	44	23.50	
KNT	2.68	43	ePc	37	49.12	1.0	CIO	6.78	308	iPnc	38	45.75	-0.6	RSL	12.07	307	P	39	59.02	-0.3
			eS	38	22.96		CMP	6.91	28	ePd	38	50.00	2.0	GRF	12.35	331	eP	40	00.60	-2.2
SKO	2.83	15	iPnc	37	51.80	1.5	YLV	6.98	76	eP	38	47.60	-1.5		Z 13s		0.60um			
			iPg	37	57.50		TNR	7.00	23	ePc	38	55.00	5.8X	FEL	12.48	318	eP	40	01.14	-3.6X
			i	38	28.00		ASS	7.02	306	P	38	50.80	1.2	BRG	12.50	341	eP	40	02.80	-2.1
			iSg	38	36.10		ARV	7.07	309	P	38	49.70	-0.6		1.6s		23.00nm			5.2mb
			LQ	38	47.00		KHL	7.14	95	ePn	38	51.00	-0.3				i	40	32.10	
			LR	38	58.00		VBY	7.35	330	iPnc	38	52.90	-1.2				e	44	12.40	
KKS	2.83	359	iPn	37	53.00	2.7	ISR	7.42	36	ePd	38	56.00	0.8	MOX	13.00	334	eP	40	09.00	-2.5
ULC	2.87	342	iPnc	37	51.87	1.0	MLR	7.45	31	ePd	38	56.00	0.4		1.0s		24.00nm			5.3mb
			iSn	38	32.57		ALT	7.50	88	iPn	38	57.80	1.4	BSF	13.10	315	eP	40	11.80	-1.2
BRT	2.99	304	P	37	53.10	0.6	RIY	7.58	326	ePn	38	55.60	-1.7		0.5s		5.85nm			5.0mb
SRS	3.04	51	ePd	37	54.16	0.9	RSM	7.61	311	P	38	57.50	-0.3	CLL	13.15	339	iP	40	23.40	9.9X
			iS	38	31.80		MAO	7.74	297	P	38	59.30	-0.3		1.4s		37.00nm			5.3mb
BCI	3.14	355	iPnc	37	56.40	1.9	CRE	7.75	307	P	38	59.80	-0.1	KOT	13.18	131	ePn	40	07.75	-6.2X
GRI	3.18	264	P	37	57.40	2.2	CVO	7.81	31	ePd	39	03.00	2.4	CDF	13.20	318	eP	40	12.00	-2.3
ORI	3.20	286	P	37	56.70	1.1	ELL	7.86	106	eP	39	04.90	3.4X		1.2s		29.75nm			5.3mb
TDS	3.22	279	P	37	57.00	1.2	CEY	7.87	327	ePnd	39	00.20	-1.3	HAU	13.45	315	eP	40	15.60	-1.9
BDV	3.28	338	iPnc	37	57.12	0.4				eSn	40	27.50			0.5s		5.85nm			4.9mb
			iSn	38	41.46		SFI	7.97	309	P	39	01.70	-1.1		Z 22s		0.10um			4.3Msz
TTG	3.31	344	iPnc	37	58.02	0.9	PGD	8.02	308	P	39	03.30	-0.4	HRI	13.69	111	eP	40	19.00	-1.8
			iSn	38	43.84		LJU	8.08	329	ePn	39	02.30	-2.0	SMF	14.23	307	eP	40	28.00	0.2
BAI	3.33	305	P	37	58.00	0.6				eSn	40	27.00			1.2s		29.75nm			4.9mb
PVY	3.37	354	iPnd	38	00.04	2.0	TRI	8.14	325	iPnc	39	02.50	-2.6	LBF	14.29	308	eP	40	30.00	1.3
			iSn	38	46.82					iSn	40	30.30			0.9s		21.30nm			4.8mb
MMB	3.42	46	ePc	37	59.00	0.3				iSgSg	41	23.70		DSI	14.36	118	eP	40	27.00	-2.6
			eS	38	43.00		CFR	8.23	41	ePd	39	04.00	-2.5	LOR	14.50	309	eP	40	31.60	0.3
HCY	3.53	336	iPnc	38	00.19	0.0	FIR	8.26	306	ePn	39	09.00	2.1		1.0s		12.00nm			4.5mb
			iSn	38	46.24		BUD	8.30	353	e(P)	39	07.00	-0.5		Z 20s		0.17um			4.2Msz
SOI	3.64	253	P	38	03.10	1.3	VOY	8.33	327	ePn	39	06.10	-1.9	AVF	14.60	307	eP	40	34.00	1.5
			eSn	38	46.10					eSn	40	38.50			0.7s		13.25nm			4.6mb
IVA	3.65	353	iPnc	38	03.91	1.9	PSZ	8.68	357	iP	39	11.10	-1.7	SSF	14.62	308	eP	40	33.20	0.3
			iSn	38	53.06		SRO	8.71	350	eP	39	11.40	-1.7		1.0s		18.00nm			4.6mb
NKY	3.74	343	iPnc	38	03.76	0.5				i	39	39.70		PRNI	14.86	122	eP	40	34.00	-2.2
			iSn	38	53.67					i	42	16.00		MEM	15.26	323	Pc	40	47.70	6.5X
GMB	3.75	255	P	38	05.21	1.6	BDI	8.81	306	P	39	13.30	-1.4	DOU	15.62	319	Pc	40	52.40	6.5X
MGR	3.89	285	P	38	07.00	1.7				eSn	40	49.40			0.8s		16.70nm			4.3mb
			eSn	38	55.30		MME	8.82	307	P	39	15.10	0.3				Rg	47	16.00	
BRY	3.93	339	iPnc	38	05.81	-0.2	VVI	8.97	321	P	39	13.50	-3.2X	MFF	16.76	303	eP	41	02.40	1.9
			iSn	38	56.79		FVI	9.25	325	P	39	18.30	-2.3		1.0s		24.00nm			4.3mb
VTS	3.94	31	iPc	38	08.00	1.8				eSn	40	58.20		TOL	18.90	280	eP	41	28.00	0.9
			iS	38	52.00		ZST	9.27	346	eP	39	18.80	-2.1	GUD	18.91	282	eP	41	28.50	1.1
ATN	4.06	256	P	38	09.00	1.3				e	39	46.10		TAB	20.22	85	eP	41	38.00	-4.2X
			eSn	38	57.00					e	53	39.80		UPP	20.72	356	iPc	41	43.80	-3.2X
RZN	4.06	52	iPc	38	09.00	1.1	PGF	9.29	294	eP	39	22.20	1.0	HFS	21.34	351	eP	41	50.50	-2.9X
PLE	4.16	349	iPnc	38	10.51	1.2		1.0s		26.00nm			5.6mb		0.9s		18.80nm			4.5mb

19d 02h

	Z	17s		0.24um			3.7MszX				eSn	52	46.50					eSn	54	51.40		
				LR	50	10.00		BRT	2.96	304	P	52	15.20	1.8	VRI	8.07	33	ePd	53	26.00	0.4
IFR	21.35	262	iP	41	50.00	-3.9X	SRS	3.05	52	ePc	52	15.14	0.4	TRI	8.11	325	ePnc	53	23.50	-2.6X
			i	41	59.00		BCI	3.12	355	iPnc	52	18.60	3.0				iSn	54	50.70	
EKA	22.54	323	Pd	42	05.20	-0.2	GRI	3.15	263	P	52	18.26	2.0	CFR	8.24	42	ePd	53	19.00	-8.9X
	1.2s		70.90nm			5.0mb	ORI	3.17	286	P	52	18.40	1.9	VOY	8.30	327	ePnd	53	27.00	-1.9
NB2	22.57	348	P	42	03.90	-1.8				eSn	52	55.20					eSn	54	57.80	
	1.0s		29.60nm			4.7mb	TDS	3.19	278	P	52	20.20	3.4X	PSZ	8.66	358	iP	53	33.60	-0.3
TIO	24.09	258	iP	42	23.00	2.2	BDV	3.26	339	ePn	52	17.60	-0.1	SRO	8.69	351	iP	53	43.90	9.8X
SOD	28.39	5	eP	42	57.00	-3.3X				eSn	52	55.00		BDI	8.78	306	P	53	35.00	-0.6
			e	43	10.00		TTG	3.29	345	ePn	52	18.70	0.6				eSn	55	07.20	
BCAO	34.69	183	iPd	43	56.10	-0.1				eSn	52	58.00		VVI	8.94	321	P	53	35.20	-2.4
	0.3s		5.00nm			4.9mb	BAI	3.30	305	P	52	21.00	2.7	FVI	9.23	325	P	53	40.00	-1.5
LKO	37.63	225	P	44	20.56	-0.6	PVY	3.35	354	ePn	52	20.80	1.7				eSn	55	18.00	
KIC	39.85	221	P	44	39.64	0.0	MMB	3.43	46	ePc	52	20.00	-0.2	PGF	9.26	294	eP	53	43.40	1.2
	0.9s		7.50nm			4.4mb				eS	53	03.00			0.9s		13.10nm			5.3mb
LIC	40.11	222	P	44	41.46	-0.3	HCY	3.50	336	iPnc	52	21.00	-0.2	CTI	9.37	319	P	53	42.10	-1.6
GKN	53.60	81	P	46	23.90	-4.1X				eSn	53	01.00					eSn	55	21.00	
DMN	54.16	82	P	46	28.20	-4.0X	SOI	3.62	252	P	52	23.80	0.9	KBA	9.37	329	iPd	53	41.60	-2.1
KKN	54.20	81	P	46	27.80	-4.7X				eSn	53	05.20					ic	53	42.10	
PKI	54.41	81	P	46	29.60	-4.6X	IVA	3.63	354	ePn	52	24.70	1.6				i	53	50.50	
GUN	54.60	81	P	46	31.60	-4.0X				eSn	53	08.00					iS	55	24.40	
FRB	55.23	327	eP	46	44.00	4.8X	NKY	3.71	344	ePn	52	24.80	0.5	BBTK	9.54	83	eP	53	46.00	-0.2
CBM	61.84	309	P	47	25.00	-0.6				eSn	53	07.20		BOB	9.85	308	P	53	48.90	-1.4
MBC	61.98	350	eP	47	25.00	-1.2	GMB	3.73	254	P	52	26.28	1.6	SOTA	10.41	323	iPc	53	56.30	-1.7
INK	71.01	350	eP	48	21.50	-2.1	MGR	3.86	285	P	52	28.60	2.3				ic	53	57.30	
ILT	72.21	7	eP	48	30.00	-0.7				(Sn)	53	12.20					i	54	11.80	
			e	48	36.00		BRY	3.91	339	ePn	52	26.70	-0.3				iS	55	50.30	
YKA	72.38	340	eP	48	30.00	-1.8				eSn	53	12.00		VAI	10.83	311	P	54	01.80	-1.9
	1.0s		2.30nm			4.2mb	VTS	3.94	31	iPc	52	28.00	0.5	PRU	11.51	341	eP	54	12.20	-0.7
FFC	74.24	329	eP	48	42.00	-0.8				iS	53	14.00		LPG	11.87	306	eP	54	16.90	-1.3
	1.0s		12.00nm			4.9mb				iSg	53	32.00			0.6s		5.40nm			5.0mb
FBA	75.79	355	P	48	49.70	-1.8	ATN	4.04	256	P	52	30.10	1.3	LPL	11.89	306	eP	54	17.10	-1.3
	0.6s		3.69nm			4.6mb				eSn	53	17.50			0.6s		4.50nm			4.9mb
FVM	80.37	312	P	49	17.20	0.0	RZN	4.07	52	iPc	52	30.00	0.6	MOX	12.97	334	e(P)	54	30.50	-2.0
	0.6s		11.05nm			5.0mb	PLE	4.14	349	ePn	52	31.00	0.7	BSF	13.07	315	eP	54	32.40	-1.6
RSSD	83.09	323	P	49	30.50	-1.1				eSn	53	19.00			0.5s		2.90nm			4.7mb
	0.8s		5.61nm			4.8mb	SGO	4.15	290	P	52	31.30	1.0	CLL	13.12	339	iPd	54	45.00	10.5X
TUL	84.89	313	eP	49	40.70	0.2	PLD	4.32	47	iPc	52	34.00	1.2		1.4s		19.00nm			
	1.0s		12.20nm			5.1mb	PGB	4.34	40	iPc	52	34.00	0.9	CDF	13.17	318	eP	54	34.50	-0.7
PNT	85.03	335	eP	49	48.00	7.0X	KDZ	4.49	56	iP	52	34.00	-1.2	HAU	13.41	315	eP	54	36.80	-1.6
NEW	85.09	333	P	49	40.00	-1.4	EZN	4.59	81	iP	52	36.80	0.1		0.6s		3.60nm			4.6mb
	0.8s		7.08nm			4.9mb	ALN	4.61	67	ePd	52	36.14	-0.7	JVI	14.16	117	eP	54	47.00	-1.4
PV09	89.87	323	P	50	04.00	-1.1	MEU	4.84	245	P	52	38.90	-1.4	SMF	14.20	307	eP	54	47.90	-0.8
ANMO	91.37	319	P	50	10.00	-1.9				eSn	53	33.40			0.7s		3.85nm			4.2mb
	1.5s		10.42nm			5.0mb	PZI	4.88	245	P	52	39.20	-1.7	LBF	14.26	308	eP	54	49.60	0.0
ALQ	91.38	319	e(P)	50	10.00	-1.9	HVAR	4.93	324	ePn	52	40.80	-0.7		0.9s		9.85nm			4.5mb
	S.D. = 1.4		on 161 of 186 obs.							iSn	53	38.30		LOR	14.47	309	eP	54	52.50	0.3
							DUI	5.15	300	P	52	45.30	0.7	RMN	14.55	123	eP	54	58.00	4.5X
	MAR 19, 1991		02h 51m 25.59± 0.37s				RFI	5.33	295	P	52	49.88	2.7	SSF	14.59	308	eP	54	52.40	-1.4
	39.260 N ± 4.1km			20.429 E ± 2.5km			IZM	5.41	97	eP	52	48.70	0.4		0.9s		11.45nm			4.5mb
	DEPTH = 10.0km (geophysicist)						PVL	5.41	42	iPd	52	46.00	-2.2	PRNI	14.90	122	eP	55	02.00	4.1X
	4.5mb (16 obs.)						BEO	5.56	0	eP	52	48.00	-2.3	MFF	16.73	303	eP	55	24.70	3.2X
	GREECE-ALBANIA BORDER REGION					(392)	SDI	5.60	298	P	52	52.70	1.7		0.7s		8.80nm			4.0mb
	ML 4.5 (ROM). MD 4.0 (THE).						JMB	5.66	54	eP	52	47.00	-4.8X	GUD	18.89	282	e(P)	55	50.00	1.5
							USI	5.68	267	P	52	53.27	1.3	UPP	20.70	356	iP	56	05.10	-3.0X
IGT	0.28	345	iPc	51	32.90	1.4	BNT	5.87	77	eP	52	52.60	-2.1	HFS	21.32	351	eP	56	11.50	-3.1X
SRN	0.70	332	iPg	51	40.30	0.9	DMK	6.14	63	iP	52	57.40	-1.1		1.0s		16.10nm			4.4mb
LSK	0.90	8	iPgc	51	42.90	0.0	ALP	6.26	306	iPn	53	01.00	0.6	IFR	21.32	262	iP	56	17.00	2.0
TPE	1.08	343	iPnc	51	46.90	1.0				eSn	54	07.50		EKA	22.51	323	P	56	26.00	-0.5
KBN	1.39	12	ePn	51	51.60	0.6	DST	6.36	84	eP	53	02.00	0.3		0.7s		10.90nm			4.4mb
LIT	1.80	62	ePd	51	57.78	0.9	CTT	6.41	70	iP	53	01.10	-1.3	NB2	22.55	348	P	56	24.90	-1.9
			eS	52	20.62		YER	6.54	106	eP	53	04.00	-0.3		0.7s		5.50nm			4.1mb
OHR	1.87	9	iPnc	52	00.10	2.1	SSO	6.64	310	e(Pn)	53	05.60	0.0	BCAO	34.71	183	ePd	58	19.00	1.2
			iSn	52	28.00		MNS	6.65	300	P	53	07.00	1.1		0.4s		8.00nm			5.0mb
			LR	52	41.30		AOI	6.69	312	ePn	53	05.00	-1.3				ic	58	22.10	
TIR	2.13	349	iPnc	52	03.50	1.9	CIO	6.75	308	iPn	53	06.78	-0.5	LKO	37.63	225	P	58	42.04	-0.4
LCI	2.19	300	P	52	03.30	0.8	CMP	6.91	28	ePc	53	06.00	-3.3X	KIC	39.85	221	(P)	59	00.60	-0.4
			eSn	52	30.00		ASS	6.99	305	P	53	10.90	0.4	MBC	61.96	350	eP	01	45.00	-2.4
GRG	2.27	41	ePd	52	04.86	1.1	YLV	7.00	76	eP	53	10.10	-0.6	INK	70.99	350	eP	02	42.50	-2.3
			iS	52	36.46		ARV	7.04	309	P	53	09.40	-1.9	YKA	72.35	340	eP	02	51.10	-2.0
THE	2.38	54	ePc	52	06.14	0.9				eSn	54	26.20			0.7s		1.10nm			4.1mb
PHP	2.43	0	iPnc	52	08.00	2.2	KHL	7.17	95	eP	53	17.00	4.0X	RSSD	83.06	323	eP	03	53.00	0.2
LACI	2.44	347	iPnc	52	07.40	1.4	VBY	7.32	330	ePnc	53	13.50	-1.6		1.0s		5.97nm			4.7mb
PAIG	2.60	74	ePd	52	08.66	0.3	ISR	7.42	36	ePd	53	16.50	-0.1	BW06	86.61	326	e(P)	04	16.50	5.9X
			eS	52	38.54		MLR	7.44	31	ePd	53	17.00	0.1		1.2s		4.57nm			4.6mb
KNT	2.68	44	ePd	52	10.30	0.7	ALT	7.53	89	eP	53	18.80	0.7		S.D. = 1.4		on 116 of 131 obs.			
SOH	2.73	54	eP	52	11.30	0.9	RIY	7.55	326	ePn	53	16.60	-1.6							
KKS	2.81	360	ePn	52	14.00	2.6	RSM	7.58	311	P	53	18.50	-0.2		MAR 19, 1991		02h 59m 35.98± 0.79s			
SKO	2.82	16	iPnc	52	12.90	1.4	CRE	7.72	307	P	53	18.80	-2.0		39.278 N ± 7.7km			20.533 E ± 5.4km		
			iPg	52	17.60		TLB	7.78	44	ePd	53	28.00	6.6X		DEPTH = 10.0km (geophysicist)					
			i	52	23.50		CVO	7.81	31	ePd	53	24.00	2.1		GREECE-ALBANIA BORDER REGION					(392)
			iSn	52	50.50		CEY	7.85	328	ePnd	53	21.00	-1.5		MD 3.0 (THE).					
			iSg	52	56.50					eSn	54	49.40								
			LQ	53	07.00		SFI	7.94	309	P	53	23.40	-0.3	IGT	0.30	329	ePd	59	40.96	-1.2
			LR	53	15.00					eSn	54	48.00					eS	59	46.72	
ULC	2.85	342	ePn	52	12.60	0.7	LJU	8.05	329	ePnc	53	23.20	-2.1	AGG	1.42	100	eP	00	01.00	-0.9

FNA	1.64	23	eP	00	05.80	0.8
LIT	1.72	61	ePd	00	05.60	-0.5
			eS	00	30.52	
OHR	1.84	6	ePn	00	08.80	0.9
GRG	2.21	40	ePd	00	14.00	0.8
			iS	00	44.24	
THE	2.31	53	ePc	00	14.92	0.3
PAIG	2.52	74	ePd	00	17.72	0.2
VAY	2.57	37	ePn	00	17.40	-0.9
KNT	2.61	43	ePd	00	18.96	0.0
SOH	2.66	54	eP	00	19.50	-0.2
SKO	2.78	14	ePn	00	21.00	-0.3
			iSn	00	54.00	
SRS	2.98	51	ePc	00	24.48	0.4
SOI	3.71	252	P	00	35.00	0.5

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

% MAR 19, 1991 03h 05m 36.28± 0.76s
42.503 N ± 7.3km 19.139 E ± 6.0km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.2 (TTG).

TTG	0.12	129	iPgc	05	40.00	0.8
			eSg	05	43.50	
BDV	0.32	227	ePg	05	42.90	0.0
			eSg	05	49.20	
NKY	0.33	341	ePg	05	44.00	0.9
			eSg	05	48.70	
HCY	0.48	264	ePg	05	45.70	-0.3
			iSg	05	54.00	
BRY	0.59	312	ePg	05	47.80	-0.6
			eSg	05	57.60	
PVY	0.62	81	ePg	05	48.00	-0.9
			eSg	05	58.60	

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

% MAR 19, 1991 04h 18m 08.93± 2.55s
40.339 N ±11.7km 27.103 E ±18.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

EDC	0.58	89	iPg	18	20.50	-0.2
			iSg	18	29.50	
BNT	0.62	88	iPg	18	21.00	-0.5
			eSg	18	30.50	
KCT	0.96	95	ePg	18	27.50	0.2
CTT	1.29	51	iPn	18	33.50	0.6
			eSg	18	41.00	
DST	1.38	122	ePn	18	34.50	0.2
DMK	1.56	18	iPn	18	36.40	-0.4
YLV	1.75	82	iPn	18	39.00	-0.5
HRT	2.01	75	ePn	18	43.00	-0.4

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

% MAR 19, 1991 04h 30m 01.33± 0.76s
44.362 N ± 6.6km 7.318 E ± 8.7km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.4 (GEN).

STV	0.12	178	P	30	04.22	-0.2
			S	30	05.97	
ENR	0.15	151	P	30	05.04	0.1
			S	30	07.00	
PZZ	0.21	313	P	30	06.19	0.2
			S	30	09.25	
ROB	0.40	99	P	30	09.67	0.1
BHB	0.48	355	P	30	10.95	-0.2
			S	30	17.14	

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

% MAR 19, 1991 04h 32m 18.44± 1.03s
37.756 N ± 9.8km 15.040 E ± 7.9km
DEPTH = 10.0km (geophysicist)
SICILY (398)

MNO	0.32	303	P	32	25.20	0.0
			eSg	32	31.40	
ATN	0.52	39	P	32	27.50	-1.6
			eSg	32	34.80	
MEU	0.66	188	P	32	31.00	-0.6
GIB	0.83	287	P	32	35.20	0.6
SOI	0.86	68	P	32	36.70	1.7
			eSn	32	47.80	

S.D. = 1.7 on 5 of 5 obs.

MAR 19, 1991 05h 19m 20.12± 0.28s
46.395 N ± 2.5km 6.849 E ± 3.6km
DEPTH = 10.0km (geophysicist)
SWITZERLAND (544)
ML 3.0 (LDG). MD 2.6 (STR).

EMS	0.33	170	ePc	19	25.40	-1.6
DIX	0.50	129	ePd	19	28.00	-2.4
RSL	0.72	192	Pg	19	32.88	-1.6
LPL	0.88	185	Pg	19	36.10	-1.1
			Sg	19	50.40	
LPG	0.90	184	Pg	19	36.40	-1.2
LOMF	0.96	359	Pg	19	39.17	0.8
			Sg	19	51.93	
LSD	0.96	167	P	19	39.02	0.4
			S	19	48.91	
ORX	1.10	134	P	19	42.71	1.9
			S	19	55.12	
BBS	1.16	23	Pg	19	41.53	-0.3
RSP	1.28	167	P	19	44.46	0.6
			S	19	57.83	
BNI	1.35	185	P	19	45.20	0.2
			eSn	20	03.90	
VAI	1.44	111	P	19	45.30	-0.9
BSF	1.44	358	Pg	19	47.27	1.0
			Sg	20	06.95	
MOF	1.47	7	Pn	19	45.82	-0.9
			Pg	19	47.80	
			Sg	20	07.33	
RRL	1.48	182	P	19	47.82	0.8
			S	30	02.52	
ZLA	1.52	44	ePc	19	48.20	0.9
BHB	1.58	169	P	19	48.65	0.4
			S	20	03.62	
HAU	1.65	348	Pn	19	49.30	0.1
			Sg	20	13.80	
FEL	1.68	28	ePn	19	47.70	-2.1
SLE	1.77	39	ePc	19	52.60	1.5
VDL	1.81	86	ePc	19	52.60	0.8
ECH	1.83	6	Pn	19	50.50	-1.4
PZZ	1.90	175	P	19	54.10	1.1
			S	20	13.47	
SAX	1.92	63	ePd	19	55.30	1.9
VITF	1.91	342	Pn	19	53.19	0.2
CDF	2.04	8	Pn	19	53.21	-1.7
WLS	2.05	9	Pn	19	53.43	-1.6
			Pg	19	58.31	
LBF	2.06	288	Pn	19	55.60	0.3
			Pg	19	59.90	
			Sg	20	28.00	
SMF	2.09	278	Pn	19	56.70	1.0
			Pg	20	00.60	
			Sg	20	28.30	
STV	2.18	171	P	19	56.58	-0.4
			S	20	18.79	
PCP	2.20	147	P	19	58.81	1.5
			S	20	22.39	
ENR	2.21	169	P	19	57.20	-0.2
ROB	2.22	161	P	19	57.89	0.3
			S	20	20.82	
LOR	2.23	294	Pn	19	58.20	0.5
			Sg	20	32.40	
OSS	2.29	82	ePd	20	01.80	3.1X
FIN	2.39	156	P	20	01.07	1.1
SSF	2.39	287	Pn	20	00.30	0.3
AVF	2.44	281	Pn	20	01.10	0.4
			Sg	20	39.50	
SBF	2.57	170	Pn	20	02.00	-0.5
			Pg	20	08.50	
			Sn	20	32.00	
IMI	2.59	163	P	20	03.22	0.4
BGF	2.77	275	Pn	20	05.60	0.2
			Pg	20	14.00	
			Sn	20	39.60	
			Sg	20	50.00	
FRF	2.84	183	Pg	20	13.00	6.7X
			Sn	20	38.80	
MAF	2.97	268	Pn	20	08.20	0.0
			Pg	20	17.80	
			Sg	20	57.20	
TCF	3.22	270	Pn	20	11.60	-0.1
			Pg	20	21.20	
CAF	3.66	248	Pn	20	17.60	-0.5

S.D. = 1.1 on 43 of 45 obs.

? MAR 19, 1991 05h 45m 14.58± 0.89s
15.912 N ±19.8km 61.619 W ±28.0km
DEPTH = 110.0km (geophysicist)
LEEWARD ISLANDS (92)

DOG	0.12	1	ePd	45	30.74	-0.3
PAG	0.13	333	eP	45	30.93	-0.2
			S	45	45.70	
BBL	0.41	161	ePd	45	31.30	0.2
SEG	0.50	13	ePd	45	31.98	0.4
			S	45	47.50	
SFG	0.53	50	ePd	45	32.14	0.3
DEG	0.67	53	iPd	45	32.57	-0.4
			S	45	48.50	

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

MAR 19, 1991 06h 19m 06.87± 0.51s
38.671 N ± 4.8km 26.752 E ± 4.6km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
MD 3.0 (THE).

IZM	0.48	124	iPg	19	16.80	0.1
EZN	1.20	344	iPn	19	29.40	0.2
CIN	1.50	135	eP	19	33.00	-0.8
DST	1.73	57	ePn	19	38.00	0.8
EDC	1.88	27	iPn	19	39.50	0.2
BNT	1.91	28	iPn	19	39.40	-0.4
YER	1.95	141	iPn	19	39.50	-1.0
KCT	2.01	38	iPn	19	40.90	-0.3
KHL	2.20	98	iPn	19	44.90	0.8
ALN	2.29	346	ePc	19	47.50	2.3
ALT	2.65	81	ePn	19	51.00	0.5
PAIG	2.69	299	ePd	19	56.58	5.6X
			eS	20	33.90	
YLV	2.77	46	ePn	19	52.40	0.2
CTT	2.79	27	iPn	19	52.90	0.5
GBZT	2.96	44	ePn	20	04.50	9.7X
ISK	2.98	36	ePn	19	54.50	-0.5
HRT	3.11	45	ePn	19	56.00	-0.9
KDZ	3.15	341	iP	19	57.00	-0.4
ELL	3.15	127	ePn	19	58.00	0.4
GPA	3.19	58	ePn	19	58.60	0.5
DMK	3.24	13	iPn	19	58.00	-0.7
RZN	3.39	333	iP	20	01.00	-0.1
SRS	3.45	316	ePc	20	01.30	-0.4
LIT	3.60	295	iPd	20	05.90	2.0
MMB	3.72	322	eP	20	02.00	-3.7X
			eS	20	45.00	
PLD	3.77	336	eP	20	06.00	-0.3
			iSg	21	12.00	
JMB	3.79	358	eP	20	10.00	3.4X
GRG	4.05	306	ePd	20	09.86	-0.4
VAY	4.16	311	ePn	20	25.00	13.2X
PGB	4.35	334	eP	20	13.00	-1.5
PVL	4.67	347	eP	20	18.00	-1.0

S.D. = 0.9 on 26 of 31 obs.

• MAR 19, 1991 06h 23m 23.93± 0.58s
37.237 N ± 9.3km 71.013 E ± 8.6km
DEPTH = 33.0km (normal)
3.8mb (4 obs.)
AFGHANISTAN-USSR BORDER REGION (717)

QUE	7.80	207	iPc	25	18.00	-0.2
			eS	26	35.80	
GKN	14.70	125	P	26	52.10	0.7
KKN	15.27	124	P	26	59.18	0.3
DMN	15.27	125	P	26	59.16	0.2
PKI	15.50	124	P	27	02.00	0.0
GUN	15.59	122	P	27	02.34	-0.8
GBA	24.22	165	Pc	28	29.20	-9.5X
	0.6s		1.70nm			3.8mb
HFS	42.50	321	eP	31	17.60	0.2
	0.4s		0.90nm			3.9mb
NB2	43.80	323	P	31	28.40	0.4
	0.5s		0.80nm			3.8mb
INK	73.18	9	eP	34	52.00	-0.7
YKA	80.51	3	eP	35	29.60	-4.0X
	0.5s		0.30nm			3.5mb

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

• MAR 19, 1991 08h 33m 29.08± 0.77s
24.385 S ± 9.5km 67.076 W ± 9.7km
DEPTH = 182.4 ± 8.3 km
4.0mb (1 obs.)
CHILE-ARGENTINA BORDER REGION (127)

SLA	1.48	104	iPc	34	04.20	2.6

19d 08h

			S	34	28.20	
ANT	3.13	282	iPc	34	18.70	-1.2
			iS	34	53.40	
TCA	7.27	163	iPd	35	12.20	-1.5
			(S)	36	30.60	
LPB	7.87	353	P	35	22.00	-0.1
ZOBO	8.13	353	P	35	25.90	0.2
			S	36	50.80	
SIV	10.07	35	P	35	48.80	-1.7
VAO	18.47	90	eP	37	32.90	-0.8
			e	37	34.30	
BAO	19.92	68	ePd	37	48.50	-0.2
BMA	21.08	90	eP	38	00.70	0.5
LIC	67.62	72	P	44	07.90	-0.6
KIC	67.94	72	P	44	10.00	-0.5
ANMO	69.82	326	P	44	23.40	1.5
YKA	94.46	340	eP	46	29.50	0.6
	0.6s		0.70nm			4.0mb
WB2	131.25	207	ePKP	52	22.20	0.6
WRA	131.25	207	PKP	52	22.00	0.4
	0.6s		1.20nm			

S.D. = 1.3 on 15 of 15 obs.

? MAR 19, 1991 08h 43m 07.30± 3.51s
31.953 S ±22.3km 71.739 W ±23.8km
DEPTH = 33.0km (normal)
NEAR COAST OF CENTRAL CHILE (135)

IHA	1.07	176	iPd	43	26.70	0.7
			iS	43	38.00	
ROCH	1.19	149	eP	43	27.80	-0.1
			iS	43	41.50	
JACH	1.21	127	iPd	43	28.00	-0.1
			iS	43	41.50	
PEL	1.48	143	iPc	43	32.00	0.0
			iS	43	48.50	
LCCH	1.52	175	iPc	43	32.50	0.0
			iS	43	49.50	
TACH	1.82	159	eP	43	37.00	0.1
			iS	43	57.70	
PCH	1.96	149	eP	43	39.20	0.3
			iS	44	02.00	
LNV	2.02	172	eP	43	38.80	-0.8
			iS	44	03.80	
			i	44	05.00	
MDZ	2.61	112	e(P)	43	51.20	3.0X
TCA	6.13	86	ePc	44	38.00	0.0

S.D. = 0.5 on 9 of 10 obs.

& MAR 19, 1991 08h 50m 54.88s
61.310 N 147.518 W
DEPTH = 27.3km
SOUTHERN ALASKA (2)
<AEIC>.

KNK	0.46	283	iPc	51	03.93	-0.7
			iS	51	11.14	
GLI	0.48	154	iPc	51	03.86	-1.0
			eS	51	11.66	
VZW	0.53	118	iPc	51	04.63	-1.1
			eS	51	13.16	
VLZ	0.60	107	iPc	51	05.45	-1.3
			eS	51	14.16	
KLU	0.79	76	iPc	51	08.35	-1.7
			eS	51	18.85	
GHO	0.82	305	iPc	51	09.03	-1.4
PLRM	0.82	291	iPc	51	08.95	-1.5
			eS	51	20.04	
PMR	0.82	291	iPc	51	09.50	-1.0
KNIM	0.97	186	ePd	51	10.77	-1.9
			S	51	24.13	
PMS	0.99	267	iPc	51	11.70	-1.3
TOA	1.02	38	eP	51	13.20	-0.3
HIN	1.04	151	iPc	51	12.88	-0.8
			S	51	27.43	
CVA	1.15	131	ePc	51	14.65	-0.6
			eS	51	28.81	
PWA	1.18	288	iPc	51	14.50	-1.2
TZL	1.24	53	iPc	51	16.06	-0.4
MTU	1.33	183	ePd	51	17.19	-0.5
SGAM	1.39	125	ePc	51	17.63	-1.0
			S	51	36.07	
SDG	1.54	37	ePd	51	20.56	-0.2
			eS	51	40.83	
SEW	1.54	219	eP	51	19.56	-1.2
SLKM	1.55	240	iPc	51	20.21	-0.7
SUA	1.56	277	iPc	51	20.48	-0.7
RAGM	1.67	122	eP	51	22.47	-0.3
CUT	1.71	311	iPc	51	22.60	-0.6
GLB	1.79	84	iPc	51	23.61	-0.9
			eS	51	46.22	
HMT	1.87	120	eP	51	24.39	-1.2
NKA	1.90	254	ePd	51	26.57	0.6
PAX	1.92	29	eP	51	26.24	-0.2
HUR	1.95	330	ePc	51	26.45	-0.3
MID	1.98	162	eP	51	20.30	-6.8
SKT	2.03	291	iPc	51	26.84	-1.1
			eS	51	52.74	
RND	2.19	344	eP	51	30.22	-0.1
SPU	2.20	269	iPc	51	29.04	-1.3
NCG	2.24	274	ePc	51	29.68	-1.2
CRP	2.24	271	eP	51	30.34	-0.7
NNL	2.25	237	eP	51	30.80	-0.2
BRLK	2.27	228	eP	51	30.06	-1.3
CKL	2.33	269	eP	51	30.78	-1.5
TGL	2.35	102	eP	51	32.09	-0.4
BGL	2.35	271	eP	51	31.15	-1.4
WAX	2.44	109	eP	51	32.25	-1.6
RDT	2.50	255	ePc	51	32.75	-1.9
TRF	2.51	330	eP	51	34.31	-0.6
MCK	2.52	346	eP	51	34.91	0.0
BALM	2.52	94	ePc	51	33.42	-1.6
CNPM	2.57	227	eP	51	34.28	-1.3
DDM	2.60	16	eP	51	36.60	0.5
REF	2.66	254	eP	51	35.27	-1.8
RDN	2.68	255	eP	51	35.51	-1.8
RSO	2.70	254	eP	51	35.74	-1.8
RS2	2.70	254	eP	51	35.63	-1.9
RED	2.72	253	eP	51	35.77	-2.0
NCT	2.75	257	eP	51	36.40	-1.7
WRG	2.99	113	eP	51	42.61	1.1
CTGM	3.02	94	eP	51	40.78	-1.3
HDA	3.12	5	eP	51	43.23	-0.1
RDS	3.54	356	eP	51	48.47	-0.9
FBA	3.61	358	eP	51	49.80	-0.5
PDB	3.63	248	eP	51	48.02	-2.6
MDM	3.68	355	ePc	51	49.68	-1.6
GLM	3.69	1	eP	51	51.35	-0.2
TTA	4.31	296	eP	51	58.50	-1.8
IMA	5.50	333	iPd	52	16.50	-0.8

62 obs. associated

MAR 19, 1991 10h 56m 17.18± 0.18s
4.643 N ± 3.3km 75.759 W ± 4.2km
DEPTH = 151.6km (2 depth phases)
4.8mb (48 obs.)
COLOMBIA (103)
MD 4.9 (UPA), 4.6 (QUI). Felt in the Armenia-Pereira area.

HOBC	0.47	233	iPd	56	37.80	-1.2
BUGC	0.89	214	iPd	56	41.23	-0.4
CLMC	1.10	227	iPd	56	43.30	-0.2
HOQC	1.46	217	iPd	56	46.74	-0.3
ANCC	1.57	225	iPd	56	47.97	0.0
BOG	1.69	91	iPd	56	51.00	1.4
			iS	57	13.50	
SILC	2.03	197	iPd	56	54.31	0.8
PURC	2.38	195	iPd	56	59.13	1.2
CUMC	4.22	210	eP	57	22.04	0.4
COTA	4.99	211	P	57	33.00	1.1
CAYA	5.05	206	P	57	34.50	1.9
QUR	5.52	210	eP	57	41.00	2.1
UPA	5.71	319	iPc	57	39.20	-1.8
	1.0s		340.00nm			5.5mb
			i	58	44.50	
			S	58	48.00	
VC1	5.88	207	eP	57	41.80	-1.9
ECO	6.10	320	iPd	57	45.00	-1.3
			i	58	54.50	
ARE	21.39	169	eP	00	58.00	3.7X
ZOBO	22.11	160	P	01	00.00	-1.6
			i	05	00.00	
LPB	22.36	160	P	01	02.00	-1.9
			i	08	13.00	
SIV	25.13	145	(P)	01	35.00	5.1X
RSCP	32.11	345	P	02	32.20	0.1
BLA	32.69	353	P	02	38.20	1.1
	0.7s		13.89nm			4.8mb
BAO	34.08	127	ePd	02	49.00	-0.4
UYO	34.13	332	iPd	02	49.50	0.0
PPD	35.71	139	eP	03	01.50	-1.5
FVM	35.78	340	P	03	02.80	-0.6
	0.9s		72.03nm			5.4mb
TUL	36.18	332	ePd	03	06.10	-0.7
	1.0s		69.10nm			5.3mb
MEO	36.69	328	eP	03	10.80	-0.3
RSNY	39.76	1	ePd	03	37.70	1.2
	0.2s		120.48nm			6.3mb X
			e	04	22.60	212kmX
PDCR	40.21	115	eP	03	38.90	-1.7
GAC	40.90	0	eP	03	47.00	1.2
ALQ	41.41	321	iPd	03	51.70	1.2
	1.0s		23.75nm			4.8mb
ANMO	41.41	321	iPc	03	51.60	1.1
	1.2s		35.16nm			4.9mb
			e	04	25.00	150km
			e	04	40.00	
GLD	43.92	327	P	04	11.20	0.4
	1.0s		60.00nm			5.2mb
GOL	43.97	327	P	04	11.40	0.2
	1.0s		30.00nm			4.9mb
PV09	45.33	323	P	04	23.30	1.2
RSSD	46.53	332	eP	04	30.90	-0.5
	1.0s		31.18nm			4.9mb
			e	05	14.00	197kmX
			e	05	21.80	
BW06	48.37	327	iP	04	45.00	-0.8
	0.8s		9.52nm			4.6mb
TNP	50.29	317	ePc	05	00.80	0.3
	1.0s		17.50nm			4.7mb
SCH	50.55	7	eP	05	02.00	0.1
FRI	51.48	315	ePd	05	28.20	19.0X
LRM	51.95	328	eP	05	12.90	0.0
ORV	53.93	317	ePd	05	27.90	0.6
FFC	54.25	342	iPd	05	28.20	-1.2
	0.6s		11.00nm			4.9mb
SES	54.37	333	eP	05	29.00	-1.4
MIN	54.37	318	ePd	05	31.40	0.7
WDC	55.11	317	eP	05	33.70	-2.1
NEW	55.96	328	P	05	40.70	-1.2
	0.8s		12.50nm			4.9mb
EDM	57.37	334	ePd	05	50.00	-1.7
PNT	57.92	328	eP	05	56.00	0.4
	1.0s		29.00nm			5.2mb
FRB	59.22	4	ePd	06	02.90	-1.3
YKA	64.43	341	eP	06	36.50	-2.5
	0.7s		10.30nm			4.9mb
AVE	69.39	56	eP	07	11.50	0.8
LKO	69.71	82	P	07	11.24	-1.8
	0.9s		17.50nm			4.9mb
TIC	70.37	85	P	07	15.52	-1.6
	0.9s		15.50nm			4.8mb
LIC	70.39	85	P	07	15.74	-1.4
	0.7s		10.50nm			4.8mb
KIC	70.66	85	P	07	17.56	-1.3
	0.8s		18.00nm			4.9mb
IFR	71.32	56	iPd	07	23.00	0.4
INK	74.20	341	ePd	07	38.20	-0.3
BALM	74.75	332	P	07	42.50	0.5
MBC	75.47	350	ePd	07	45.30	-0.4
	1.0s		29.00nm			5.0mb
			pP	08	23.00	153km
LPF	76.35	42	eP	07	50.90	-0.2
GRR	76.53	41	eP	07	52.30	0.2
	0.8s		18.80nm			4.9mb
EPF	76.69	47	eP	07	53.90	0.7
	0.9s		11.45nm			4.6mb
MFF	76.76	43	eP	07	53.90	0.5
	0.7s		13.25nm			4.8mb
TOA	76.81	333	ePd	07	54.80	1.3
FLN	76.83	41	eP	07	54.20	0.4
	0.8s		21.50nm			4.9mb
LDF	77.04	41	eP	07	55.20	0.3
	0.9s		22.95nm			4.9mb
LFF	77.18	45	eP	07	56.00	0.2
	1.0s		20.00nm			4.8mb
LPO	77.47	45	eP	07	57.60	0.2
	1.0s		32.00nm			5.0mb
RJF	77.77	45	eP	07	59.10	0.1
	1.0s		20.00nm			4.8mb
CAF	78.12	45	eP	08	01.20	0.2
FBA	78.24	336	ePd	08	01.50	0.3
	1.1s		26.50nm			4.9mb
TCF	78.35	44	eP	08	02.10	-0.1
SLKM	78.35	331	P	08	01.90	0.0
MAF	78.59	44	eP	08	03.30	-0.2
	1.0s		20.00nm			4.8mb
BGF	78.81	44	eP	08	04.60	-0.1
SSF	79.30	43	eP	08	07.20	-0.2
	1.0s		16.00nm			4.7mb

19d 11h

SMF	79.50	44	eP	08	08.50	0.1											JMB	7.63	1	iP	11	17.00	-0.4
	0.9s	16.40nm			4.8mb												OHR	7.65	327	iPn	11	16.50	-1.2
LOR	79.56	43	eP	08	08.50	-0.3														iSn	12	42.50	
	1.0s	12.00nm			4.6mb												ZNT	7.71	107	eP	11	15.60	-2.9
LBF	79.62	43	eP	08	08.60	-0.5														eS	12	34.60	
DOU	80.27	40	Pd	08	13.30	0.9											8HL	7.76	94	Pn	11	14.00	-5.3X
IMA	80.88	336	ePd	08	16.10	0.6														Sn	12	38.00	
	1.2s	20.40nm			4.7mb												PGB	7.90	348	iPd	11	22.00	0.8
SVW	81.06	331	ePd	08	16.40	0.0											JVI	8.07	108	eP	11	20.40	-3.3X
	0.7s	17.10nm			4.9mb												SKO	8.10	333	iPn	11	23.90	-0.1
LMR	81.21	47	eP	08	18.10	0.6												1.0s		400.00nm			6.6mb X
	0.9s	8.20nm			4.5mb													Z	14s	38.08um			5.0Msz
FRF	81.32	47	eP	08	18.50	0.5												N	13s	53.03um			
	0.9s	13.10nm			4.7mb													E	13s	63.15um			
LPL	81.45	45	eP	08	20.10	1.1														i	11	28.20	
	1.0s	10.00nm			4.5mb															i	11	33.40	
LPG	81.46	45	eP	08	20.20	1.1														iSn	12	45.50	
	1.0s	10.00nm			4.5mb															iSb	13	08.50	
BSF	81.58	42	eP	08	19.30	-0.1														iSg	13	27.00	
	0.9s	13.10nm			4.7mb												SHMJ	8.12	102	Pd	11	22.29	-2.0
SBF	81.90	47	eP	08	22.30	1.2											VTS	8.13	343	iPg	11	25.00	0.5
	0.9s	13.10nm			4.7mb															iS	13	56.00	
CDF	81.92	42	eP	08	21.30	0.1											TIR	8.27	324	eP	11	26.50	0.2
	0.9s	13.10nm			4.7mb												PHP	8.27	328	iPd	11	29.20	2.9X
PGF	83.02	48	eP	08	27.40	0.4											SALJ	8.30	107	Pd	11	25.05	-1.8
	0.9s	13.10nm			4.8mb												BURJ	8.31	105	Pd	11	24.97	-2.1
NB2	84.50	29	P	08	34.90	0.9											KFNJ	8.36	108	Pd	11	25.78	-1.7
	1.1s	24.20nm			4.9mb												MKT	8.36	115	eP	11	23.90	-3.7X
CLL	85.64	39	iPc	08	40.90	1.1											PVL	8.42	355	iPd	11	28.00	-0.3
	1.9s	42.00nm			4.9mb												JARJ	8.43	105	Pd	11	26.62	-2.0
ANM	85.67	334	ePd	08	41.10	1.4											MASJ	8.44	109	Pd	11	27.02	-1.8
HFS	85.74	30	eP	08	40.00	-0.1											MKRJ	8.45	110	Pc	11	27.71	-1.3
	0.8s	1.80nm			4.0mb												LISJ	8.47	112	Pd	11	27.32	-1.7
KBA	86.02	43	eP	08	42.00	0.0											PRNI	8.56	119	eP	11	26.40	-4.0X
	1.0s	5.40nm			4.3mb												LACI	8.57	325	eP	11	29.10	-1.3
		e	09	11.00	111kmX												LCI	8.63	312	P	11	28.50	-2.8
		e	09	35.00																eSn	13	01.00	
		e	40	49.00													KAS	8.77	40	iPc	11	34.90	1.5
		e	41	00.00													MBH	8.81	123	eP	11	31.30	-2.6
		e	41	05.00													SOI	8.89	294	P	11	34.90	0.0
KHC	86.09	41	eP	08	43.00	0.9														eSn	13	10.20	
BRG	86.25	39	iP	08	44.20	1.4											MDSJ	8.90	108	Pd	11	32.81	-2.3
	1.0s	16.00nm			4.8mb												SHWJ	8.91	117	P	11	33.13	-2.2
PRU	86.67	40	eP	08	45.50	0.6											PSN	8.96	9	eP	11	36.00	0.2
GKN	142.44	29	PKP	15	29.44	-5.0X											BCI	8.98	329	iPc	11	39.00	2.9X
KKN	142.93	29	PKP	15	31.26	-4.1X											ULC	9.04	324	iPnd	11	33.10	-3.8X
DMN	143.00	29	PKP	15	31.22	-4.3X														iSn	13	07.49	
GUN	143.11	28	PKP	15	32.02	-3.8X											GAZ	9.12	72	eP	11	36.30	-1.8
PKI	143.17	29	PKP	15	31.20	-4.7X											NAOJ	9.12	119	Pc	11	36.85	-1.2
ASPA	145.72	234	iPKPd	15	40.10	0.1											PVY	9.21	329	iPnc	11	39.00	-0.4
	1.0s	11.90nm																		iSn	13	19.40	
		i	16	23.00													HOL	9.24	124	ePc	11	38.30	-1.4
		i	19	06.00													TDS	9.31	304	P	11	39.80	-1.0
HYB	146.48	49	ePKP	15	41.50	0.2											ATN	9.36	294	P	11	41.60	0.1
WB2	146.97	240	iPKPc	15	41.80	-0.3														eSn	13	22.90	
	1.2s	3.30nm															TTG	9.39	326	iPnc	11	38.29	-3.5X
		eSKP	19	08.70																iSn	13	18.54	
WRA	146.98	240	PKP	15	42.00	-0.1											HSHJ	9.41	120	Pd	11	39.70	-2.4
	0.9s	6.50nm															BRT	9.41	313	P	11	40.20	-1.9
S.D. = 1.0 on 100 of 108 obs.																	GHZJ	9.42	114	P	11	39.77	-2.6
																	CSTJ	9.44	110	Pc	11	39.99	-2.5
MAR 19, 1991 11h 52m 02.68± 0.47s																	ORI	9.44	307	P	11	40.30	-2.2
39.796 N ± 5.5km 20.680 E ± 5.3km																	IVA	9.47	330	iPnc	11	42.20	-0.8
DEPTH = 10.0km (geophysicist)																				iSn	13	25.12	
GREECE-ALBANIA BORDER REGION (392)																	8DV	9.48	324	iPnc	11	38.82	-4.3X
MD 3.1 (ATH), 3.0 (THE).																				iSn	13	17.80	
																	HITJ	9.51	120	Pd	11	42.11	-1.4
IGT	0.38	226	ePd	52	10.44	0.0											8UC1	9.51	359	iPd	11	46.00	2.6
KEK	0.68	263	ePb	52	15.60	-0.6											MEU	9.52	287	P	11	43.50	-0.2
KZN	0.98	58	ePb	52	20.60	-0.8											SHBJ	9.71	102	Pc	11	46.47	0.1
FNA	1.12	28	eP	52	24.00	0.3											BAI	9.76	313	P	11	45.00	-1.9
OHR	1.32	4	iPg	52	28.00	0.9											HCY	9.77	323	iPnd	11	41.77	-5.2X
		iSg	52	45.40																iSn	13	23.55	
		LR	52	51.20													OTFJ	9.79	105	Pc	11	49.13	1.7
LIT	1.42	77	ePd	52	28.40	-0.2											NKY	9.81	327	iPnd	11	44.42	-3.3X
		eS	52	48.32																iSn	13	28.25	
AGG	1.49	121	eP	52	40.00	10.4X											MNO	9.88	292	P	11	49.50	0.7
VLS	1.62	183	ePb	52	32.00	0.7											KVT	9.89	48	eP	11	47.80	-0.9
GRG	1.75	48	iP	52	33.16	-0.2											DRA	9.97	351	ePd	11	49.00	-0.8
		eS	52	58.20													PLE	10.06	330	iPnd	11	49.40	-1.7
KNT	2.17	50	ePc	52	39.20	-0.2														iSn	13	38.09	
SKO	2.25	15	ePn	52	40.00	-0.5											MGR	10.07	305	P	11	49.20	-2.0
		iSn	53	08.30													BRY	10.09	325	iPnd	11	47.09	-4.5X
PAIG	2.31	86	ePc	52	41.08	-0.3														iSn	13	32.82	
		eS	53	08.56													ISR	10.30	1	ePd	11	56.00	1.6
SRS	2.58	58	ePd	52	46.20	0.9											GIB	10.41	291	P	11	56.00	0.1
S.D. = 0.6 on 12 of 13 obs.																	CFR	10.44	7	ePd	11	56.00	-0.2

19d 12h

SGO	10.44	306	P	11	54.10	-2.1				eS	16	25.50		GRN	18.84	310	P	13	44.06	-1.4
FAI	10.54	287	P	11	59.10	1.5	TAB	16.41	73	eP	13	16.00	0.6	FEL	18.89	319	eP	13	45.18	-1.0
COZ	10.59	352	ePd	12	00.00	1.5	WTTA	16.62	323	iPd	13	20.20	2.2	BBS	18.92	318	P	13	44.34	-2.1
MCT	10.64	289	P	11	59.20	0.1				ic	13	20.90		CLL	19.09	334	iP	13	46.00	-2.3
MLR	10.66	359	ePd	12	00.00	0.7				i	13	33.90			1.8s	155.00nm			4.9mb	
RUWJ	10.67	99	Pc	11	59.09	-0.5				i	14	00.20					i	14	06.20	107kmX
TNR	10.93	352	ePd	12	04.00	1.1				i	14	40.40					eS	17	23.00	
BEO	10.96	337	ePn	12	03.00	-0.2	PCP	16.75	311	P	13	18.05	-1.5	MOX	19.10	330	eP	13	47.00	-1.5
CVO	10.99	359	iPd	12	05.50	1.8	FIN	16.81	309	P	13	18.97	-1.3		2.0s	349.00nm			5.3mb	
VRI	11.04	1	ePd	12	05.00	0.6	CKI	16.86	310	P	13	21.00	0.1	Z	14s	15.10um				
USI	11.24	294	P	12	06.20	-0.9	IMI	16.88	308	P	13	20.30	-0.8	N	13s	16.60um				
DEV	11.35	348	eP	12	14.00	5.4X	OSS	17.02	319	eP	13	22.50	-0.5	E	16s	4.60um				
BZS	11.36	343	eP	12	09.00	0.2	ROB	17.06	309	P	13	22.76	-0.7	LOMF	19.24	316	P	13	48.47	-1.8
ERC	11.53	290	P	12	12.20	1.1	KER	17.11	86	ePc	13	25.50	1.2	MOF	19.36	318	P	13	49.43	-2.3
TIM	11.57	342	iPd	12	14.00	2.4	KHC	17.12	330	iP	13	23.00	-1.1	STR	19.45	321	P	13	51.69	-1.0
SDI	11.99	309	P	12	17.30	-0.1		1.2s	100.00nm			4.8mb		BSF	19.53	318	P	13	51.32	-2.4
BLY	12.15	327	eP	12	22.00	2.6	Z	13s	12.20um					ECH	19.55	319	P	13	51.83	-2.1
			eS	14	52.00		N	14s	13.00um					WLS	19.57	320	P	13	52.05	-2.0
AZI	12.38	309	P	12	22.00	-0.5	E	14s	16.40um					CDF	19.61	320	P	13	52.45	-2.1
IAS	12.39	4	eP	12	24.00	1.4				e	13	47.40		GWF	19.77	321	P	13	54.67	-1.5
AKRL	12.43	152	iPc	12	24.00	0.7				S	16	42.00		ETER	19.78	299	iPc	13	56.00	-0.3
AGMR	12.48	153	iPc	12	25.00	1.1	SAOF	17.13	308	P	13	23.00	-1.2	HAU	19.88	318	eP	13	55.90	-1.4
AGRW	12.49	151	iPc	12	26.00	2.0	REVF	17.14	307	P	13	24.99	0.5		0.7s	86.15nm			5.2mb	
AKSR	12.58	151	iPc	12	26.00	0.8	SBF	17.15	307	eP	13	23.00	-1.6	Z	19s	9.75um				
AOU	12.59	310	P	12	25.50	0.0	AUTN	17.21	308	P	13	24.58	-1.0	TNS	20.18	325	ePd	13	58.40	-2.1
AGAL	12.69	152	iPc	12	23.00	-3.7X	AURF	17.23	307	P	13	24.21	-1.4	VITF	20.20	318	P	13	59.60	-1.0
ALP	12.72	312	eP	12	26.00	-1.2	VDL	17.26	318	ePc	13	28.40	2.3	RYD	20.24	114	ePc	14	04.00	2.7
MNS	13.07	309	P	12	32.00	0.3	VAI	17.31	315	P	13	26.00	-0.4	LBL	20.44	307	P	14	02.97	-0.2
UZD	13.13	336	eP	12	35.00	2.5	ENR	17.32	308	P	13	26.97	0.2	TEH	20.46	80	eP	14	05.00	1.3
AOI	13.16	315	eP	12	34.79	1.9	TOUF	17.34	308	P	13	26.35	-0.7	PLDF	20.50	310	P	14	02.60	-1.3
CEI	13.17	348	eP	12	43.00	10.0X	MVIF	17.35	307	P	13	25.68	-1.5	SMF	20.66	312	eP	14	03.10	-2.3
CIO	13.22	313	eP	12	32.75	-1.0	STV	17.39	308	P	13	27.38	-0.2	LBF	20.73	313	eP	14	04.10	-2.1
ASS	13.44	312	P	12	35.00	-1.7	FUR	17.42	324	eP	13	27.10	-0.8	PYM	20.80	309	P	14	06.53	-0.5
ARV	13.51	314	P	12	37.40	-0.2	Z	10s	12.00um					AGO	20.84	310	P	14	06.77	-0.6
VBY	13.61	325	eP	12	38.10	-0.6	WET	17.42	329	iPc	13	26.80	-1.1	LOR	20.93	313	eP	14	06.50	-1.8
BUD	13.78	339	e(P)	12	41.00	-0.1	PRU	17.44	334	P	13	26.20	-1.9		0.6s	105.70nm			5.4mb	
PSZ	13.94	342	iP	12	42.30	-0.9		0.8s	69.10nm			4.8mb		Z	19s	10.50um			5.2Msz	
MAO	14.07	307	P	12	46.00	1.1	Z	13s	11.30um					AVF	21.02	312	eP	14	07.20	-1.9
CEY	14.17	324	eP	12	46.50	0.2	N	11s	13.10um					SSF	21.05	312	eP	14	07.70	-1.7
			e	12	52.50		E	11s	9.00um					CAF	21.11	306	eP	14	09.50	-0.6
			eS	15	19.30					i	13	28.00		MLS	21.21	300	P	14	09.61	-1.5
CRE	14.18	313	P	12	46.00	-0.4				e	14	03.00		BGF	21.23	311	eP	14	09.90	-1.4
SRO	14.30	338	eP	12	47.10	-0.7				S	16	42.00		MAF	21.27	310	eP	14	10.30	-1.4
			i	12	56.90		CALN	17.46	306	P	13	27.76	-0.8	BNS	21.28	325	ePd	14	10.50	-1.2
			i	13	08.50		FRF	17.55	306	eP	13	28.70	-0.8		0.8s	137.00nm			5.4mb	
LJU	14.35	325	eP	12	48.30	-0.2		1.1s	185.60nm			5.1mb		EROO	21.30	294	iPc	14	12.90	0.9
			e(S)	15	43.00		LMR	17.55	305	eP	13	28.70	-0.8	TCF	21.52	309	eP	14	13.50	-0.8
SFI	14.40	313	P	12	50.50	1.3		1.2s	154.70nm			5.0mb		RJF	21.61	306	eP	14	15.30	0.2
TRI	14.48	322	P	12	49.00	-1.2	DOI	17.55	309	P	13	30.40	0.7	Z	19s	8.25um			5.2Msz	
VOY	14.64	324	e(P)	12	53.00	0.5	KSP	17.59	339	ePd	13	23.50	-6.5X	MEM	21.61	323	iPd	14	14.75	-0.3
			e	12	59.50			1.1s	130.00nm			5.0mb					i	14	20.50	21km
			e(S)	15	33.10					ic	13	24.50		LPO	21.62	305	eP	14	15.40	0.2
FIR	14.69	312	ePn	12	56.00	3.1X				i	13	38.00			0.8s	85.95nm			5.2mb	
			iSn	15	38.00		ORO	17.64	313	P	13	31.10	0.3	ACU	21.74	288	iPd	14	17.20	0.7
ZST	15.03	336	eP	12	56.40	-0.9	PZZ	17.65	309	P	13	31.27	0.4	ENN	21.76	323	iPd	14	16.20	-0.3
	6.0s	5.00nm				3.0mb X	ORX	17.65	313	P	13	29.12	-1.7		0.9s	239.00nm			5.6mb	
			i	13	23.60		LRG	17.70	305	eP	13	30.50	-0.8	EPF	21.76	300	eP	14	16.60	-0.1
SPC	15.04	344	eP	13	02.90	5.2X		1.1s	175.80nm			5.1mb			0.9s	45.85nm			4.9mb	
BDI	15.24	312	P	13	02.50	2.3	BHB	17.70	310	P	13	29.22	-2.2	BSD	21.78	342	iP	14	14.00	-2.7
MME	15.25	313	P	13	03.00	2.5	LLS	17.75	318	ePc	13	33.50	1.3		0.7s	44.00nm			5.0mb	
VVI	15.35	321	P	13	02.30	0.7	SAX	17.79	319	ePc	13	33.40	0.6				i	14	44.50	158kmX
VKA	15.36	334	iPc	13	05.00	3.3X	SURF	17.82	309	P	13	30.40	-2.7	LSF	21.94	309	eP	14	18.40	-0.1
			i	13	16.60		RSP	17.85	311	P	13	33.22	-0.1	LFF	22.00	305	eP	14	19.40	0.4
			iS	16	00.30		FOUF	17.86	309	ePc	13	33.35	0.0		0.9s	95.00nm			5.2mb	
			i	16	03.70					i	13	36.55		DOU	22.02	320	Pd	14	18.20	-1.0
			LR	19	57.00					i	13	39.60					S	18	24.00	
PGF	15.56	305	eP	13	03.20	-1.3	MMK	17.88	314	ePc	13	33.30	-0.5	ABHA	22.04	134	ePc	14	24.30	4.4X
FVI	15.59	323	P	13	04.90	0.3	RRL	18.04	310	P	13	34.15	-1.6	WTS	22.15	327	ePd	14	19.20	-1.2
KBA	15.66	325	iPd	13	02.30	-3.5X	LSD	18.06	312	P	13	34.86	-1.2		1.0s	129.00nm			5.3mb	
	1.2s	196.00nm				5.2mb	BNI	18.17	310	P	13	39.80	2.5	BTH	22.17	300	P	14	23.00	2.3
			i	13	05.50		CDR	18.18	305	ePc	13	37.50	0.2				sP	14	37.00	
			i	13	09.00		DIX	18.22	314	ePc	13	38.70	0.6				S	18	33.00	
			i	13	17.50		LPG	18.33	311	eP	13	39.50	0.0				(sS)	18	58.00	
			i	13	47.20			0.8s	125.95nm			5.1mb					SSSS	19	38.00	
			i	13	52.00		LPL	18.35	311	eP	13	39.60	0.0	ECHE	22.22	290	eP	14	22.90	1.6
			i	14	05.70		BRG	18.39	334	iP	13	37.60	-2.2	SNF	22.43	321	Pc	14	22.90	-0.3
			i	14	29.90			1.0s	70.00nm			4.8mb		BBU	22.44	106	iP	14	25.90	2.4
			i	16	41.20					i	13	45.20			0.7s	346.00nm			5.9mb	
CTI	15.80	320	P	13	08.60	1.1				i	14	04.60		UCC	22.56	322	P	14	25.00	0.6
KRA	15.93	345	eP	13	09.40	0.4				i	17	04.00					S	18	38.00	
			e	13	15.20		ZLA	18.45	319	ePc	13	40.30	-0.4	BEE	22.59	106	iP	14	28.30	3.4X
			i	13	21.40		EMS	18.50	313	ePc	13	41.00	-0.5	DHJN	22.94	134	ePc	14	34.70	5.9X
KMR	16.05	329	iP+	13	14.30	3.7X	GRF	18.54	328	ePd	13	40.80	-0.9	COP	22.96	340	iP	14	30.00	1.7
SAL	16.15	317	P	13	13.00	1.2	Z	21s	7.00um						0.7s	84.93nm			5.4mb	
BOB	16.31	313	P	13	14.50	0.5				eScS	17	10.00		ETOR	23.15	293	iPc	14	31.00	0.5
BHG	16.35	326	eP	13	17.40	3.0X	SLE	18.57	320	ePc	13	41.10	-1.0	ENIJ	23.19	284	iPc	14	31.90	1.0
RAC	16.37	341	eP	13	16.00	1.4	HOF	18.73	330	iPc	13	42.90	-1.2	EVIA	23.38	288	iPc	14	34.20	1.4

ECRI		23.73	298	iPc	14	36.70	0.6			0.6s	59.50nm		5.5mb				pP	20	09.00	8kmX
LDF		23.92	313	eP	14	38.20	0.4	KIC		40.28	233	P	17 02.96	1.0			S	28	49.00	
FLN		24.21	313	eP	14	40.40	-0.2			0.6s	67.50nm		5.6mb		KMI		65.46	76	Pc	20	08.50	-0.2
		0.9s	281.50nm				5.8mb				S	23	02.00			Z	28s	1.50um			5.0MszX
	Z	20s	8.25um				5.2Msz	AKU		40.48	333	eP	17 04.20	1.2			S	28	50.00	
AFC		24.24	284	iPd	14	44.30	3.1X			1.2s	118.75nm		5.5mb		CHG		65.47	84	ePc	20	08.50	-0.1
LPF		24.25	311	eP	14	40.40	-0.6	LIC		40.57	233	P	17 05.42	1.1			1.0s	65.75nm				5.7mb
ECOG		24.25	285	eP	14	43.70	2.4			0.8s	56.50nm		5.4mb					eS	28	48.00	
GRR		24.28	312	eP	14	40.80	-0.5		Z	20s	2.50um		5.1Msz		XAN		66.12	64	Pc	20	12.60	0.1
EBAN		24.39	287	iPd	14	43.50	1.0	NDI		43.32	83	iPd	17 18.00	-8.8X			1.0s	30.00nm				5.4mb
MUD		24.61	337	iPc	14	43.30	-1.0			1.0s	110.00nm		5.6mb			N	14s	0.80um				
		0.7s	24.00nm				4.9mb	KBS		44.61	356	iPc	17 36.30	-0.3		E	12s	0.90um				
			i		15	53.00		POO		45.03	98	iPc	17 41.30	0.6				S	29	00.00	
TOL		24.61	291	iPd	14	45.80	1.2			1.0s	70.00nm		5.5mb		BDT		66.32	85	eP	20	14.00	0.1
		1.7s	769.23nm				6.0mb	DAG		46.61	347	iPc	17 51.00	-1.5			0.8s	82.30nm				5.9mb
			ePP		15	29.00				0.6s	12.67nm		5.1mb		TIY		67.00	59	Pc	20	18.40	0.2
			iS		19	09.00		WMQ		47.34	60	iPd	18 00.00	1.2		Z	22s	1.80um				5.2Msz
			iSS		20	09.00				1.5s	200.00nm		5.9mb			N	15s	1.10um				
GUD		24.73	293	iPd	14	46.60	0.7		Z	28s	3.50um		5.2MszX					S	29	12.50		
MAL		24.97	283	iPc	14	49.50	1.5		N	12s	2.90um				MBC		67.09	352	ePc	20	17.40	-0.6
			iS		19	20.00			E	12s	2.60um						0.9s	25.00nm				5.4mb
			iPS		20	08.00					PP	19	52.40		GYA		67.93	72	P	20	25.00	0.8
EPRU		25.60	284	eP	14	54.90	0.8				S	24	52.50				1.4s	100.00nm				5.8mb
UPP		25.69	350	iP	14	52.30	-2.2	HYB		49.43	97	iPc	18 16.00	0.7		Z	36s	0.90um				4.7MszX
			iS		19	18.00				1.0s	145.00nm		6.0mb					S	29	20.00		
NUR		25.72	358	eP	14	53.00	-1.9				eS	25	21.50					sS	29	29.00		
		0.7s	17.40nm				4.8mb	GKN		49.63	81	P	18 17.04	0.2				ScS	30	19.00		
	Z	16s	7.70um				5.3MszX			1.0s	492.00nm		6.5mb	X	NST		68.05	86	eP	20	27.80	2.8X
			i		14	59.00	21km	DMN		50.17	81	P	18 21.88	0.8	CBM		68.27	313	P	20	26.00	0.1
			e		19	24.00				1.0s	74.00nm		5.7mb		BJI		68.53	56	eP	20	28.00	0.4
			LR		25	26.00		KKN		50.24	81	P	18 21.46	-0.1			1.0s	44.00nm				5.6mb
EJIF		25.84	283	iPc	14	57.10	0.9	PKI		50.43	81	P	18 23.24	0.1		Z	20s	2.39um				5.4Msz
IFR		26.01	276	iPd	15	00.00	1.9			1.0s	417.00nm		6.4mb			N	12s	0.64um				
			i		15	08.50	30km	GBA		50.57	102	Pc	18 23.30	-0.6				sP	20	34.00		
EPLA		26.17	291	iPc	14	59.40	0.1			0.9s	131.00nm		5.9mb					eS	29	30.00		
HFS		26.63	346	eP	15	01.30	-2.0	GUN		50.67	80	P	18 25.22	0.2	NNT		69.35	89	eP	20	31.30	-1.7
		0.4s	1.90nm				4.1mb X			0.9s	875.00nm		6.7mb	X	TIA		71.02	59	eP	20	43.10	0.2
	Z	16s	5.47um				5.2MszX	NPA		51.13	164	eP	18 30.30	2.2			1.0s	38.00nm				5.5mb
			LR		22	29.00		KRI		51.46	176	iPc	18 33.80	3.1X		Z	27s	1.40um				5.1MszX
EVAL		26.76	286	eP	15	06.80	2.1	KOD		52.52	105	eP	18 40.30	1.3		N	15s	0.90um				
ERUA		27.10	296	iPc	15	08.60	0.8	LSA		54.21	76	iPc	18 51.20	-0.3		E	15s	0.60um				
KAF		27.31	360	iP	15	07.50	-1.9		Z	25s	6.20um		5.6MszX					eS	29	57.40		
EMON		27.35	298	iPc	15	09.90	-0.1				PP	20	49.50		WHN		71.82	65	eP	20	49.50	1.8
AVE		27.93	277	iP	15	15.00	-0.4				S	26	27.50				2.2s	200.00nm				5.8mb
			i		15	33.00	78kmX	GDH		54.36	334	iPc	18 50.90	-0.6		Z	24s	0.70um				4.8MszX
			i		15	47.00				0.8s	119.40nm		6.0mb			N	18s	1.50um				
			i		16	40.00					e	36	10.00					pP	20	59.00	30km	
NB2		27.98	344	P	15	13.00	-2.6	BUL		54.71	177	iPc	18 56.50	1.8				S	30	04.00		
		0.8s	15.50nm				4.8mb	GTA		57.27	62	iPc	19 13.40	0.3	SNY		72.53	51	Pd	20	51.00	-0.8
AAE		28.09	153	eP	15	21.00	3.7X			1.0s	40.00nm		5.4mb				1.2s	35.00nm				5.3mb
PTO		28.12	293	eP	15	17.00	0.0		Z	10s	2.40um		5.6MszX			Z	24s	3.30um				5.5MszX
			eS		19	50.00			N	16s	1.70um					N	14s	1.56um				
STS		28.18	297	eP	15	18.10	0.6				pP	19	18.00	15km		E	15s	1.00um				
EZAM		28.23	296	iPd	15	19.80	1.8				sP	19	20.40					pP	21	00.00	29km	
TIO		28.41	272	iP	15	21.00	1.1				S	27	09.00		CN2		72.68	48	Pc	20	52.20	-0.5
			i		15	42.00	94kmX				sS	27	18.00				5.0s	700.00nm				6.0mb X
EKA		28.87	324	Pc	15	22.70	-0.9	SLR		60.26	178	iPc	19 33.50	-0.3		Z	18s	5.90um				5.9Msz
		0.9s	41.30nm				5.2mb			1.0s	45.00nm		5.6mb			N	15s	0.70um				
ESK		28.88	324	eP	15	23.00	-0.7		Z	18s	3.44um		5.5Msz			E	15s	1.00um				
		0.8s	80.00nm				5.5mb	FRB		61.44	330	eP	19 40.00	-1.4				pP	20	55.50	11kmX	
EBL		29.06	325	ePc	15	34.90	9.6X			0.8s	76.00nm		5.9mb		GAC		73.29	314	eP	20	58.00	1.8
		0.9s	65.00nm				5.4mb	LZH		61.48	64	P	19 42.50	0.3			0.6s	13.00nm				5.1mb
ELO		29.76	326	ePc	15	31.00	-0.6			4.0s	530.00nm		6.0mb	X	RSNY		73.35	313	P	21	00.00	3.4X
		0.7s	71.00nm				5.6mb		Z	21s	2.65um		5.4Msz			Z	20s	3.62um				5.7Msz
EAB		29.90	325	ePc	15	32.70	-0.1		N	13s	1.16um				BRW		74.15	1	ePd	21	01.70	1.1
		0.8s	121.00nm				5.8mb				pP	19	47.00	15km	QIZ		74.20	78	eP	20	58.00	-3.9X
VAL		31.19	315	eP	15	52.00	7.8X				sP	19	48.50		NJ2		74.37	62	Pd	21	03.80	1.2
			S		21	45.00					PP	22	05.00			Z	20s	0.70um				5.0Msz
SOD		32.59	0	iP	15	54.90	-1.4				eS	28	02.00			E	16s	0.90um				
OUE		34.40	86	eP	16	13.40	0.7				sS	28	12.00					S	30	32.00		
		1.1s	60.13nm				5.4mb				ScS	29	30.00		MDJ		74.74	46	eP	21	06.50	1.9
			eS		21	45.10					SS	32	04.00			Z	16s	1.80um				5.5MszX
KEV		34.99	0	iP	16	15.70	-1.3	CD2		63.61	69	P	19 56.40	0.1		N	12s	1.30um				
	Z	18s	4.80um				5.3Msz			0.7s	100.00nm		6.1mb			E	13s	1.90um				
			LR		29	30.00					S	28	29.00					iS	30	38.00		
TRO		35.10	355	eP	16	17.50	-0.5	SCH		64.04	320	ePd	19 58.10	-0.7	IPM		74.83	95	ePd	21	06.00	0.4
NAI		37.23	163	iPc	16	28.00	-8.7X			0.6s	53.00nm		5.9mb		GZH		74.86	72	eP	21	07.60	2.0
KUK		37.66	227	eP	16	42.00	1.8	BTO		64.06	57	eP	19 59.00	-0.2	ILT		75.87	10	iP	21	09.50	-1.1
KOGH		37.67	227	eP	16	41.00	0.7		N	17s	1.20um						1.4s	69.00nm				5.5mb
SHGH		37.68	226	eP	16	40.00	-0.2		E	17s	1.00um							e	21	16.00	21km	
TEGH		37.88	226	eP	16	43.00	1.0				sP	20	06.00					i	21	23.00		
LEGH		37.98	226	eP	16	44.00	1.2				S	28	31.00					i	21	45.00		
LKO		38.52	237	Pd	16	48.70	1.3	HHC		65.02	57	Pc	20 06.40	0.9				e	23	29.00		
		0.8s	69.00nm				5.5mb			4.0s	500.00nm		6.0mb	X				i	24	07.40		
KSH		39.45	68	P	16	58.00	2.9X		Z	16s	1.80um		5.4MszX					e	26	03.00		
	E	11s	3.40um						N	14s	0.40um							e	27	37.50		
TIC		40.25	233	P	17	02.70	1.0		E	14s	1.10um							eS	30	47.00		

19d 12h

		e	31	04.00		
		e	41	08.00		
INK	76.08	352 ePd	21	11.10	-0.7	
	0.7s	33.00nm			5.5mb	
		pP	22	12.50	262kmX	
SSE	76.56	62 P	21	16.00	0.8	
	1.0s	25.00nm			5.2mb	
	Z 20s	1.40um			5.3Msz	
	E 14s	1.10um				
		S	30	58.00		
		ScS	31	28.00		
PDCR	77.81	245 eP	21	23.90	1.7	
YKA	78.06	343 eP	21	21.80	-1.1	
	1.0s	19.00nm			5.1mb	
CLE	79.31	313 iP	21	43.80	13.7X	
IMA	79.43	0 ePd	21	31.80	1.4	
	0.8s	15.00nm			5.1mb	
FFC	80.38	333 ePd	21	36.10	0.5	
	0.6s	24.00nm			5.4mb	
FBA	80.50	357 ePd	21	37.10	1.1	
	0.8s	18.60nm			5.2mb	
ANM	80.51	5 ePd	21	36.90	0.8	
BLA	81.20	309 P	21	56.50	16.2X	
ASAJ	82.43	41 eP	21	52.50	6.0X	
TTA	82.56	1 ePd	21	48.60	1.7	
	1.4s	38.90nm			5.3mb	
TOA	83.22	356 ePd	21	52.20	1.8	
	0.7s	26.30nm			5.5mb	
PMR	83.85	358 ePd	21	54.50	1.0	
	1.0s	42.40nm			5.6mb	
HOOJ	83.94	42 eP	22	00.40	6.1X	
BALM	84.04	354 P	21	55.60	1.0	
TSRJ	84.07	51 P	21	57.20	2.1	
BAG	84.19	74 eP	21	57.00	0.8	
KUSJ	84.22	40 eP	21	56.20	0.5	
SVW	84.40	1 ePd	21	58.20	1.9	
	0.9s	36.30nm			5.6mb	
MTMJ	84.55	49 P	21	59.00	1.4	
MAT	84.83	49 eP	21	59.00	0.1	
	1.0s	30.00nm			5.5mb	
	Z 20s	1.77um			5.4Msz	
		eS	32	24.00		
NIIJ	84.86	48 P	21	59.70	0.7	
YAMJ	84.88	46 P	22	00.30	1.2	
SLKM	84.97	358 P	21	58.50	-0.7	
OFUJ	85.24	45 eP	22	02.10	1.2	
RSCP	85.45	311 P	22	03.00	0.9	
	Z 19s	1.56um			5.4Msz	
EDM	85.58	337 eP	22	03.50	1.1	
CHJJ	85.63	49 P	22	03.50	0.6	
KAKJ	86.25	48 P	22	06.30	0.4	
FVM	86.81	315 P	22	09.60	0.9	
	0.7s	54.42nm			5.9mb	
SES	87.17	334 eP	22	11.00	0.7	
	1.3s	223.00nm			6.3mb	
RSSD	89.39	327 P	22	21.60	0.3	
	1.0s	43.38nm			5.7mb	
	Z 22s	2.33um			5.6Msz	
VAO	90.18	242 (P)	22	25.00	0.1	
PNT	90.93	339 eP	22	29.00	1.0	
	0.8s	24.00nm			5.6mb	
NEW	91.07	337 P	22	29.50	0.7	
	0.9s	57.02nm			5.9mb	
TUL	91.33	317 ePd	22	30.40	0.3	
	1.0s	35.80nm			5.7mb	
	Z 20s	0.87um			5.2Msz	
		LR	57	10.80		
LRM	91.51	333 ePc	22	32.20	1.1	
UYO	91.80	315 iPc	22	33.60	1.3	
BW06	92.88	329 P	22	36.00	-1.4	
	0.8s	10.71nm			5.3mb	
GLD	93.36	325 P	22	40.00	0.4	
	Z 18s	1.84um			5.6Msz	
GOL	93.47	325 P	22	39.90	-0.3	
MEO	93.72	317 iPc	22	42.30	1.2	
PV09	96.19	326 P	22	53.20	0.4	
SIV	96.88	255 eP	22	58.00	2.3	
ANMO	97.76	323 P	22	59.00	-0.8	
	Z 20s	2.13um			5.6Msz	
ALQ	97.76	323 eP	23	00.00	0.2	
	1.0s	3.00nm			4.8mb	
	Z 22s	1.30um			5.4Msz	
FRI	101.88	333 ePdiff	23	10.90	-6.9X	
WRA	115.59	97 PKP	28	08.00	0.8	
	0.9s	2.90nm				
WB2	115.60	97 ePKP	28	07.20	0.0	
		i	29	11.00		

ASPA	117.04	101 iPKPd	28	11.20	1.3	
	1.0s	6.90nm				
SPA	124.64	180 iPKPc	28	24.80	1.6	
	1.2s	42.25nm				
		i	30	20.00		
LTZ	152.43	117 PKP	29	21.70	8.4X	
KHZ	153.40	116 ePKP	29	23.20	8.7X	
TVO	162.58	346 ePKP	29	37.00	10.9X	
	0.8s	15.00nm				
	S.D. = 1.3	on 394 of 441 obs.				
	MAR 19, 1991	12h 10m 27.47± 0.43s				
	42.931 N ± 3.6km	12.799 E ± 5.2km				
	DEPTH = 10.0km	(geophysicist)				
	CENTRAL ITALY				(381)	
	MD 2.9 (SSO).					
ASS	0.17	324 P	10	32.00	0.6	
		eSg	10	35.00		
CIO	0.37	44 iPg	10	35.23	0.2	
		iSg	10	41.18		
MNS	0.55	189 P	10	38.60	-0.1	
		eSg	10	48.10		
ARV	0.58	10 P	10	39.20	0.0	
		eSg	10	47.50		
ALP	0.59	105 iPg	10	38.92	-0.6	
		iSg	10	48.43		
AOU	0.73	142 P	10	40.60	-1.2	
		eSn	10	53.70		
AOI	0.85	43 ePg	10	44.76	0.8	
		iSg	10	58.41		
CRE	0.93	319 P	10	45.00	-0.3	
		eSn	11	01.00		
RSM	1.03	346 P	10	47.00	0.1	
AZI	1.05	153 P	10	49.00	1.7	
RMP	1.12	184 P	10	50.00	1.5	
RDP	1.17	183 P	10	49.50	0.1	
SFI	1.21	325 P	10	50.10	0.2	
SDI	1.44	148 P	10	52.00	-1.6	
BDI	1.96	306 P	11	00.00	-1.2	
MME	1.98	310 P	11	01.40	-0.2	
	S.D. = 1.0	on 16 of 16 obs.				
	? MAR 19, 1991	12h 41m 54.33± 2.31s				
	31.135 S ±50.0km	68.306 W ±15.8km				
	DEPTH = 90.0km	(geophysicist)				
	SAN JUAN PROVINCE, ARGENTINA				(137)	
RTLL	0.24	216 iPc	42	08.50	0.5	
		eS	42	19.90		
CFA	0.47	173 iPc	42	09.40	0.3	
		eS	42	21.30		
ZON	0.52	218 iPd	42	09.20	-0.3	
		eS	42	19.20		
RTCB	0.55	230 iPd	42	09.50	-0.3	
TCA	3.19	95 ePc	42	43.20	-0.2	
		S	43	20.00		
	S.D. = 0.5	on 5 of 5 obs.				
	MAR 19, 1991	13h 24m 53.06± 1.60s				
	15.133 N ± 4.4km	60.309 W ±17.2km				
	DEPTH = 33.0km	(normal)				
	LEEWARD ISLANDS				(92)	
	MD 3.4 (TRN). ML 3.2 (FDF).					
CRM	0.70	237 iPd	25	06.55	0.1	
MVM	0.81	225 iPd	25	08.34	0.3	
		S	25	19.10		
FDF	0.91	244 iPd	25	09.53	0.1	
		S	25	21.50		
BIM	0.96	230 iPd	25	10.61	0.4	
		S	25	23.50		
BBL	1.19	289 eP	25	13.68	0.2	
		S	25	29.60		
MGG	1.25	309 eP	25	14.61	0.4	
		S	25	31.00		
SLW	1.26	209 eP	25	14.96	0.4	
		eS	25	31.05		
DEG	1.38	328 eP	25	15.52	-0.7	
		S	25	33.50		
SLB	1.48	209 iP	25	18.22	0.5	
		eS	25	34.81		
DOG	1.55	305 eP	25	19.00	0.4	
		S	25	39.00		
PAG	1.59	304 eP	25	19.70	0.3	
		S	25	40.00		
SEG	1.71	318 eP	25	22.48	1.5	

		S	25	44.40		
SVV	2.01	206 eP	25	25.99	0.7	
		eS	25	47.79		
FCV	2.16	205 eP	25	27.44	-0.1	
		iS	25	52.83		
	S.D. = 0.5	on 14 of 14 obs.				
	? MAR 19, 1991	13h 30m 51.26± 5.01s				
	44.140 N ±30.8km	7.493 E ±14.7km				
	DEPTH = 10.0km	(geophysicist)				
	NORTHERN ITALY				(545)	
	ML 2.4 (LDG).					
AUTN	0.15	198 Pg	30	54.70	-0.3	
		Sg	30	59.03		
SAOF	0.16	164 Pg	30	55.00	0.0	
		Sg	30	59.23		
AURF	0.28	205 Pg	30	57.04	-0.1	
		Sg	31	03.17		
SBF	0.28	189 Pg	30	57.40	0.2	
		Sg	31	03.80		
MVIF	0.35	225 Pg	30	58.60	0.1	
		Sg	31	04.89		
FRF	0.84	227 Pg	31	07.80	0.3	
		Sg	31	19.80		
LRG	1.07	230 Pg	31	11.10	-0.3	
		Sg	31	26.60		
LMR	1.08	222 Pg	31	11.50	0.0	
		Sg	31	27.20		
	S.D. = 0.2	on 8 of 8 obs.				
	MAR 19, 1991	13h 33m 46.81± 0.39s				
	53.883 N ± 7.6km	161.476 E ± 7.5km				
	DEPTH = 45.1km	(4 depth phases)				
	4.6mb (21 obs.)					
	OFF EAST COAST OF KAMCHATKA				(219)	
PET	1.90	244 eP	34	17.00	-0.3	
	0.5s	1800.00nm				
	Z 16s	3.00um				
		eS	34	40.00		
KUSJ	15.45	232 eP	37	17.40	-5.6X	
ASAJ	15.71	239 P	37	25.70	-0.7	
HOOJ	16.67	234 eP	37	33.10	-5.4X	
ILT	16.91	26 eP	37	41.80	0.4	
	1.0s	10.00nm			3.9mb	
		e	38	04.00		
		e	38	55.00		
NIIJ	22.75	232 P	38	47.40	1.6	
MAT	23.68	232 eP	38	57.00	2.0	
	0.7s	22.60nm			4.8mb	
TSRJ	25.56	234 P	39	16.10	3.3X	
FBA	27.28	46 P	39	27.80	-0.6	
INK	32.74	39 ePc	40	15.90	-0.9	
MBC	35.99	24 eP	40	44.50	-0.1	
		pP	41	18.00	151kmX	
YKA	42.02	44 eP	41	34.50	-0.3	
	0.6s	1.80nm			4.0mb	
PNT	46.85	62 eP	42	14.00	0.2	
SOD	54.44	340 eP	43	10.00	-1.1	
TNP	55.55	71 P	43	19.80	-0.1	
		pP	43	32.20	44km	
FRB	56.45	24 eP	43	25.00	-0.7	
CHTO	58.87	259 P	43	43.30	0.0	
		pP	43	56.30	46km	
KAF	59.08	337 iP	43	43.70	-0.5	
	0.7s	6.70nm			4.9mb	
GUN	59.63	277 P	43	48.40	-0.5	
KKN	60.07	277 P	43	50.80	-0.9	
PKI	60.16	277 P	43	52.20	-0.3	
GKN	60.29	278 P	43	52.20	-1.0	
DMN	60.31	277 P	43	52.60	-0.8	
NB2	63.01	344 P	44	09.90	-0.9	
	0.8s	15.20nm			5.2mb	
HFS	63.45	343 eP	44	11.90	-1.8	
	0.5s	2.20nm			4.5mb	
CLL	71.90	340 iPc	45	06.40	-0.2	
	1.3s	24.00nm			5.0mb	
HYB	71.98	275 eP	45	07.00	-0.6	
PRU	72.83	338 P	45	13.00	0.9	
KHC	73.84	339 iPd	45	19.60	1.5	
ZST	73.92	336 eP	45	19.00	0.5	
GBA	75.63	273 Pd	45	27.60	-1.2	
	0.9s	6.00nm			4.5mb	
CDF	75.77	343 eP	45	29.20	0.0	
	0.4s	1.15nm			4.2mb	
KBA	75.84	338 iPc	45	31.00	1.2	

	1.0s	17.00nm		4.9mb		
		i	45	44.20	45km	
GRR	77.01	348 eP	45	36.10	0.0	
	0.5s	5.85nm		4.9mb		
WB2	77.15	206 iPc	45	36.30	-0.8	
	0.7s	4.70nm		4.6mb		
		i	45	49.50	45km	
WRA	77.15	206 P	45	36.00	-1.1	
	0.7s	4.50nm		4.6mb		
LPF	77.39	348 eP	45	38.50	0.4	
LOR	77.45	345 eP	45	38.60	0.1	
	0.6s	4.05nm		4.6mb		
SSF	77.70	345 eP	45	39.40	-0.5	
LBF	77.71	344 eP	45	39.20	-0.8	
	0.7s	4.40nm		4.6mb		
AVF	77.99	345 eP	45	41.90	0.4	
	0.5s	2.90nm		4.6mb		
TCF	78.66	345 eP	45	45.20	0.0	
LPL	78.66	342 eP	45	46.80	1.3	
	0.8s	6.70nm		4.7mb		
MAF	78.67	345 eP	45	45.30	0.1	
LPG	78.68	342 eP	45	47.00	1.3	
	0.8s	6.70nm		4.7mb		
OHR	79.52	331 eP	45	50.50	0.5	
SBF	80.13	341 eP	45	54.00	0.8	
FRF	80.57	342 eP	45	56.80	1.3	
	0.7s	6.60nm		4.7mb		
LMR	80.81	342 eP	45	57.40	0.7	
ASPA	80.82	205 iPc	45	57.70	0.7	
	0.9s	4.80nm		4.4mb		
PGF	81.08	340 eP	45	59.10	0.8	
	0.6s	5.40nm		4.7mb		
	S.D. = 0.9	on 48 of 51 obs.				

? MAR 19, 1991 14h 09m 01.65± 4.43s
44.049 N ±17.6km 8.714 E ±26.6km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.0 (GEN).

FIN	0.40	294 P	09	10.37	0.6	
		S	09	15.90		
PCP	0.51	346 P	09	12.06	0.1	
		S	09	19.11		
IMI	0.61	257 P	09	14.29	0.3	
		S	09	22.67		
ROB	0.65	292 P	09	14.54	-0.2	
		S	09	23.30		
ENR	0.95	281 P	09	19.85	0.1	
		S	09	31.47		
STV	1.02	281 P	09	20.86	-0.1	
		S	09	33.50		
PZZ	1.24	292 P	09	24.25	-0.6	
		S	09	40.49		
	S.D. = 0.5	on 7 of 7 obs.				

? MAR 19, 1991 14h 26m 04.80± 3.31s
37.091 N ±21.1km 27.547 E ±22.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YER	0.59	86 iPg	26	16.00	-0.8	
		iSg	26	24.00		
CIN	0.67	40 eP	26	18.00	0.0	
IZM	1.32	350 iPn	26	28.70	-0.6	
ELL	1.92	100 iPn	26	38.40	0.4	
KHL	1.99	51 ePn	26	35.00	-4.0X	
DST	2.65	18 ePn	26	49.00	0.6	
	S.D. = 0.9	on 5 of 6 obs.				

MAR 19, 1991 14h 27m 56.08± 0.85s
36.849 N ± 8.6km 27.383 E ± 6.8km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)
MD 3.8 (ATH).

YER	0.77	68 iPg	28	09.50	-1.7	
		iSg	28	18.50		
CIN	0.94	37 iPgd	28	12.00	-1.9	
		iSg	28	27.00		
IZM	1.55	356 iPn	28	24.50	0.7	
ELL	2.03	92 iPn	28	31.90	1.1	
NPS	2.14	223 ePn	28	32.90	0.6	
KHL	2.25	48 ePn	28	34.50	0.5	
PRK	2.55	340 ePn	28	37.00	-1.1	
BCK	2.63	76 ePn	28	39.00	-0.4	
DST	2.92	19 ePn	28	45.00	1.5	
ALT	3.08	44 ePn	28	46.30	0.5	
EZN	3.09	345 ePn	28	46.60	0.9	
KCT	3.48	12 ePn	28	57.00	5.7X	
EDC	3.51	6 ePn	28	53.50	1.7	
VLI	3.57	269 ePn	28	51.50	-1.2	
ISK	4.41	17 ePn	29	13.10	8.6X	
RDO	4.53	342 ePn	29	04.90	-1.2	
	S.D. = 1.3	on 14 of 16 obs.				

? MAR 19, 1991 14h 36m 12.17± 6.84s
31.714 S ±70.9km 69.284 W ±70.8km
DEPTH = 110.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTC8	0.47	61 eP	36	29.00	-0.2	
		eS	36	42.90		
RTLL	0.79	61 eP	36	31.40	-0.3	
		eS	36	49.50		
CFA	0.90	83 ePc	36	33.00	0.4	
		S	36	51.00		
RTRS	1.55	354 iPc	36	40.00	0.1	
	S.D. = 0.5	on 4 of 4 obs.				

MAR 19, 1991 14h 57m 14.82± 0.64s
43.077 N ± 5.6km 12.925 E ± 5.5km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)
MD 2.5 (SSO).

ASS	0.19	268 P	57	18.80	-0.3	
		eSg	57	22.90		
CIO	0.20	54 iPg	57	19.30	0.1	
		iSg	57	22.64		
ARV	0.42	2 P	57	23.00	-0.4	
		eSg	57	29.00		
ALP	0.56	122 ePg	57	26.36	0.0	
		iSg	57	36.35		
MNS	0.72	195 P	57	29.00	0.1	
		eSg	57	41.50		
CRE	0.90	308 P	57	31.70	-0.4	
		eSg	57	45.50		
SFI	1.15	318 P	57	37.30	1.0	
		eSg	57	53.70		
	S.D. = 0.6	on 7 of 7 obs.				

? MAR 19, 1991 15h 11m 27.38± 0.78s
31.236 S ±20.6km 68.664 W ±29.2km
DEPTH = 90.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.19	119 iPc	11	40.50	-0.3	
RTCB	0.28	205 iPd	11	40.90	-0.1	
		eS	11	51.00		
ZON	0.31	182 iPd	11	41.20	0.1	
		eS	11	52.20		
CFA	0.52	136 eP	11	42.80	0.3	
		eS	11	55.70		
RTRS	1.26	327 iPc	11	50.60	0.1	
		eS	12	08.80		
	S.D. = 0.3	on 5 of 5 obs.				

? MAR 19, 1991 15h 21m 13.44± 0.89s
31.202 S ±25.4km 68.670 W ±34.6km
DEPTH = 90.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.21	127 iPd	21	26.90	-0.1	
		eS	21	38.00		
RTCB	0.30	201 ePd	21	27.20	0.0	
		eS	21	38.10		
CFA	0.55	138 ePd	21	28.90	0.1	
		S	21	42.00		
RTRS	1.23	326 iPd	21	36.20	0.0	
	S.D. = 0.1	on 4 of 4 obs.				

? MAR 19, 1991 15h 44m 10.61± 1.31s
32.653 N ±13.5km 88.987 E ±23.9km
DEPTH = 33.0km (normol)
4.4mb (4 obs.)
TIBET (306)

GUN	5.44	210 P	45	34.62	2.8X	
	0.7s	61.00nm		5.2mb		
KKN	5.81	214 P	45	37.52	0.5	
PKI	5.94	212 P	45	40.56	1.7	
GKN	5.97	220 P	45	36.34	-2.8	
DMN	6.05	215 P	45	40.70	0.4	
HYB	17.86	214 eP	48	18.50	0.3	
HFS	55.11	324 eP	53	41.00	-0.5	
	0.7s	2.10nm		4.3mb		
NB2	56.22	325 P	53	50.40	0.8	
	0.9s	4.40nm		4.5mb		
WRA	67.94	134 P	55	08.00	-0.4	
	0.5s	1.60nm		4.4mb		
YKA	83.30	11 eP	56	45.70	10.7X	
	0.7s	0.80nm				
	S.D. = 1.6	on 8 of 10 obs.				

• MAR 19, 1991 16h 04m 04.64± 1.57s
31.329 S ±11.4km 68.558 W ±12.5km
DEPTH = 102.7 ± 16.6 km
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.08	91 iPc	04	19.20	-0.2	
ZON	0.24	205 iPd	04	19.20	-0.6	
		eS	04	31.20		
RTCB	0.26	233 iPd	04	20.00	0.0	
CFA	0.39	136 ePc	04	21.00	0.7	
		eS	04	33.20		
RTRS	1.39	326 iPc	04	30.20	0.2	
		eS	04	49.00		
MDZ	1.57	189 iP	04	32.40	0.0	
		iS	04	53.60		
TCA	3.39	91 iPc	04	56.50	-0.2	
		S	05	26.60		
	S.D. = 0.6	on 7 of 7 obs.				

? MAR 19, 1991 16h 35m 59.60± 0.94s
43.337 N ± 8.6km 13.210 E ± 8.2km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

CIO	0.15	199 iPg	36	03.01	-0.1	
		iSg	36	06.61		
ARV	0.25	310 P	36	04.90	-0.1	
		eSg	36	09.10		
AOI	0.36	53 iPg	36	07.01	0.1	
		iSg	36	14.27		
ASS	0.48	237 P	36	09.60	0.2	
		eSg	36	17.50		
	S.D. = 0.3	on 4 of 4 obs.				

• MAR 19, 1991 16h 43m 44.19± 3.14s
37.093 N ±19.9km 27.588 E ±20.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YER	0.56	85 iPg	43	54.50	-1.0	
		iSg	44	06.00		
CIN	0.64	38 eP	43	57.00	-0.1	
IZM	1.33	349 ePn	44	08.10	-0.6	
ELL	1.89	100 iPn	44	17.40	0.5	
KHL	1.97	51 ePn	44	18.60	0.6	
DST	2.64	18 ePn	44	28.00	0.4	
		eSg	06	59.50		
	S.D. = 0.9	on 6 of 6 obs.				

MAR 19, 1991 17h 08m 11.07± 0.92s
31.974 S ± 7.6km 68.228 W ±10.1km
DEPTH = 33.0km (normol)
SAN JUAN PROVINCE, ARGENTINA (137)

CFA	0.37	358 iPc	08	19.10	-0.7	
		eS	08	26.10		
ZON	0.57	318 eP	08	21.20	-1.6	
RTLL	0.67	342 iPd	08	23.90	-0.3	
RTCB	0.69	315 ePd	08	23.10	-1.3	
RTRS	2.09	329 iPc	08	47.00	2.6	
		eS	09	15.00		
JACH	2.12	250 iPd	08	45.00	0.0	
PEL	2.38	240 iPd	08	48.00	-0.7	
		i	09	18.00		
SAN	2.53	234 iP	08	52.30	1.6	
		iS	09	24.20		
PCH	2.53	229 iP	08	51.50	0.7	
		iS	09	24.10		
ROCH	2.55	246 eP	08	52.00	0.7	
		iS	09	23.60		
TACH	2.83	233 iPc	08	53.80	-1.2	
		iS	09	33.00		
IHA	3.07	249 iPc	09	00.30	2.0	
		iS	09	39.50		
TCA	3.17	79 ePc	08	59.70	-0.1	
		(S)	09	49.50		

19d 17h

LCCH	3.19	241	eP	08 59.50	-0.5
LNV	3.33	233	eP	09 00.00	-2.0
			i	09 05.00	
			iS	09 47.50	
ANT	8.46	346	eP	10 23.50	9.2X
ZOBO	15.64	0	P	11 52.00	0.8

S.D. = 1.4 on 16 of 17 obs.

? MAR 19, 1991 17h 34m 06.58± 3.10s
37.037 N ±20.5km 27.491 E ±19.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YER	0.64	81	iPg	34 18.50	-1.0
			iSg	34 30.50	
CIN	0.74	40	ePg	34 21.00	0.0
			iSg	34 33.00	
IZM	1.37	352	ePn	34 31.00	-0.7
ELL	1.96	98	iPn	34 40.90	0.6
KHL	2.06	51	ePn	34 42.00	0.2
DST	2.72	19	ePn	34 52.00	0.9

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

MAR 19, 1991 17h 45m 04.16± 0.69s
42.987 N ± 6.1km 18.712 E ± 4.5km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.4 (TTG).

BRY	0.15	235	iPgc	45 07.38	-0.4
			iSg	45 10.53	
NKY	0.27	130	iPgc	45 10.36	0.4
			iSg	45 14.76	
HCY	0.56	196	iPgd	45 15.40	-0.2
			iSg	45 24.56	
PLE	0.61	55	iPgd	45 15.65	-0.8
			iSg	45 26.70	
TTG	0.69	144	iPgd	45 17.26	-0.5
			iSg	45 28.66	
BDV	0.71	173	iPgd	45 17.90	-0.2
			iSg	45 29.78	
IVA	0.88	97	iPgc	45 21.38	0.3
			iSg	45 36.03	
PVY	1.01	112	iPgc	45 23.91	0.6
			iSg	45 40.23	
ULC	1.10	159	iPgc	45 24.93	0.1
			iSg	45 43.60	
HVAR	1.67	277	iPn	45 34.30	0.7
			iSn	45 58.10	

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

• MAR 19, 1991 18h 01m 37.07± 0.95s
22.520 S ±14.0km 66.375 W ±17.1km
DEPTH = 257.1 ± 13.1 km
4.1mb (1 obs.)
JUJUY PROVINCE, ARGENTINA (128)

SLA	2.34	160	iPd	02 24.00	0.2
CNCB	5.88	345	iPc	03 06.20	1.2
			S	04 14.00	
LPB	6.17	344	Pc	03 08.00	-0.6
ZOBO	6.43	345	iPc	03 12.10	0.1
ARE	7.72	320	iPc	03 27.00	-0.9
			iS	04 50.00	
SIV	8.20	39	P	03 29.80	-3.9X
PPD	13.95	91	eP	04 45.30	-0.4
YKA	92.94	340	eP	14 21.90	0.3
	0.5s		1.00nm		4.1mb

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

? MAR 19, 1991 18h 07m 00.39±11.19s
51.610 N ±57.9km 16.538 E ±72.7km
DEPTH = 12.9 ± 4.7 km
POLAND (548)
ML 3.1 (VKA).

KSP	0.78	191	iP	07 15.50	0.1
	0.5s		38.00nm		
			iS	07 24.00	
			iLR	07 30.00	
BRG	1.79	247	iPg	07 31.60	0.4
			iSg	07 51.50	
PRU	2.06	219	ePn	07 35.00	-0.1
			Pg	07 36.50	
			e	07 40.20	
			Sn	07 54.00	
			Sg	07 59.20	
CLL	2.23	264	iPn	07 37.20	-0.4
			iPg	07 39.70	
			eSg	08 07.00	
KHC	3.12	219	iPn	07 50.00	-0.2
			iPg	07 56.40	
			Sn	08 28.40	
			Sg	08 34.00	
MOX	3.25	255	ePn	07 52.50	0.5
VKA	3.35	183	iPgc	08 03.20	9.7X
			iSg	08 46.70	
WET	3.40	225	iPnc	07 54.10	-0.1
ZST	3.44	174	eP	08 05.60	10.9X
			e	08 25.30	
GRF	3.89	242	ePn	08 00.80	-0.3
			ePg	08 13.60	
			iSg	08 58.10	
KBA	4.99	206	eP	08 17.00	0.1
			e	08 32.00	
			e(Sn)	09 29.00	
			e	09 36.50	

S.D. = 0.4 on 9 of 11 obs.

? MAR 19, 1991 18h 38m 55.40± 3.63s
6.980 S ±19.7km 130.510 E ±18.1km
DEPTH = 108.7 ± 40.9 km
4.6mb (7 obs.)
BANDA SEA (280)

MTN	5.86	174	eP	40 22.70	1.4
	0.3s		228.00nm		5.9mb X
KNA	8.88	191	eP	41 01.70	-0.8
	0.4s		117.00nm		6.0mb X
			eS	42 34.00	
WB2	13.42	164	eP	42 00.60	-2.0
	0.4s		14.90nm		4.8mb
OIS	16.12	148	eP	42 38.00	1.0
			eS	45 26.00	
ASPA	16.91	169	iPc	42 47.00	0.2
	0.6s		24.30nm		4.6mb
			eS	45 41.70	
MBL	17.48	215	eP	42 53.00	-0.8
	0.4s		13.00nm		4.5mb
			eS	45 55.00	
WARB	19.45	190	eP	43 18.50	2.4X
	0.4s		6.00nm		4.3mb
			eS	46 41.00	
NANU	21.18	221	eP	43 35.20	1.6
CHTO	40.32	310	P	46 25.00	1.2
GUN	55.32	311	P	48 20.50	-0.2
PKI	55.50	310	P	48 21.40	-0.5
KKN	55.71	310	P	48 22.96	-0.3
	0.7s		5.00nm		4.6mb
DMN	55.75	310	P	48 23.30	-0.3
	0.9s		7.00nm		4.7mb
GKN	56.31	310	P	48 27.28	-0.2
	0.4s		7.00nm		5.0mb
ILT	82.78	17	eP	51 18.00	9.8X
CNCB	150.11	142	PKPc	58 41.80	10.6X
ZOBO	150.44	142	PKP	58 42.00	10.3X

S.D. = 1.2 on 13 of 17 obs.

• MAR 19, 1991 18h 51m 30.01± 1.40s
41.135 N ± 7.9km 22.449 E ±12.1km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.9 (SKO). MD 1.8 (THE).

GRG	0.18	191	iPc	51 33.76	-0.3
			eS	51 36.48	
VAY	0.21	26	iPg	51 34.50	0.0
			iSg	51 38.00	
KNT	0.34	85	ePd	51 36.96	-0.1
			eS	51 41.92	
THE	0.64	142	ePd	51 41.76	-1.0
SRS	0.86	91	ePd	51 46.36	-0.3
LIT	1.03	178	ePc	51 49.48	-0.1
PAIG	1.53	142	ePd	51 59.16	1.8

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

MAR 19, 1991 19h 17m 32.48± 0.91s
43.000 N ± 9.0km 18.726 E ± 6.2km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.5 (TTG).

BRY	0.17	233	iPgd	17 35.78	-0.6
			iSg	17 38.38	
NKY	0.27	133	iPgc	17 38.88	0.6
			iSg	17 44.28	
HCY	0.58	197	iPgd	17 43.95	-0.2
			iSg	17 53.92	
PLE	0.59	56	iPgd	17 43.27	-1.2
			iSg	17 54.63	
TTG	0.69	145	iPgc	17 45.40	-0.8
			iSg	17 57.57	
IVA	0.87	98	iPgd	17 50.50	1.2
			iSg	18 04.58	
HVAR	1.68	277	ePn	18 03.00	1.0
			iSn	18 27.00	

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

& MAR 19, 1991 19h 21m 48.80s
36.440 N 89.540 W
DEPTH = 7.1km
NEW MADRID, MISSOURI REGION (486)
<SLM-P>. MD 2.6 (SLM). Felt in southeastern Missouri.

LDMO	0.03	213	iPc	21 50.55	0.2
			S	21 51.27	
OGTN	0.05	115	iPd	21 50.66	0.1
NRMS	0.06	320	iPc	21 50.92	0.3
NMMO	0.15	356	iP	21 52.31	0.4
CBD	0.15	216	iPc	21 52.29	0.2
ACTN	0.21	117	iPd	21 53.16	0.0
HATI	0.28	203	eP	21 54.19	-0.4
OHTN	0.29	177	iPc	21 54.67	-0.1
MFTN	0.30	157	iPd	21 54.86	-0.1
DWM	0.37	6	eP	21 55.85	-0.4
ELC	0.88	16	eP	22 04.74	-1.2
GOIL	1.15	42	eP	22 09.56	-0.9
CSIL	1.33	27	eP	22 12.86	-0.8
FVM	1.70	336	eP	22 19.26	0.3
NHIL	1.84	36	ePd	22 21.16	0.1
BPIL	1.91	23	ePd	22 22.66	0.6

16 obs. associated

MAR 19, 1991 19h 25m 16.80± 1.10s
1.728 N ± 5.0km 126.376 E ± 7.5km
DEPTH = 99.8 ± 11.4 km
4.8mb (7 obs.)
MOLUCCA PASSAGE (266)

MAP	8.86	345	eP	27 21.00	-2.9
MKS	9.76	225	iPc	27 36.20	0.2
KKM	11.01	293	ePd	27 52.50	-0.3
	0.7s		55.20nm		5.5mb
PPR	11.03	317	ePc	27 54.00	1.0
JAY	14.93	106	e(P)	28 45.00	1.0
BAG	15.67	339	eP	28 55.60	2.2
WB2	22.92	160	iPd	30 11.30	-1.7
	0.7s		32.60nm		4.8mb
			iS	34 17.10	
QIZ	23.62	318	P	30 20.60	0.8
IPM	25.47	277	ePd	30 38.10	0.7
OIS	25.66	150	eP	30 38.50	-0.6
ASPA	26.28	164	eP	30 43.70	-1.1
	0.7s		14.00nm		4.6mb
			iS	35 14.50	
NANU	26.36	203	eP	30 46.00	0.6
WARB	27.75	179	eP	30 59.00	0.9
WHN	30.84	339	eP	31 28.00	2.5X
GYA	31.04	324	P	31 27.40	-0.1
CHTO	31.79	304	P	31 34.60	0.5
BAL	33.45	195	eP	31 48.50	0.2
KLB	34.13	193	eP	31 54.50	0.3
MUN	34.88	195	eP	32 01.00	0.5
XAN	36.05	335	P	32 09.10	-1.4
CD2	36.07	326	P	32 09.60	-1.0
TIY	38.04	342	eP	32 26.80	-0.3
BJI	39.25	348	eP	32 37.50	0.4
	1.0s		18.00nm		4.9mb
SNY	40.00	357	Pd	32 44.20	1.0
LZH	40.06	331	P	32 44.00	0.0
	1.2s		52.00nm		5.2mb
	Z 24s		0.51um		4.3MszX
CN2	41.90	359	eP	33 02.00	3.2X
LSA	43.52	313	P	33 13.80	1.1
GTA	44.64	330	P	33 21.60	0.4
	1.2s		10.00nm		4.5mb
GUN	46.64	308	P	33 37.36	-0.2
PKI	46.86	307	P	33 38.56	-0.7
KKN	47.06	307	P	33 40.18	-0.5
DMN	47.12	307	P	33 40.94	-0.3

GKN	47.66	307	P	33	45.08	-0.3
KOD	49.31	282	eP	33	57.00	-1.4
HYB	49.48	291	eP	34	00.50	1.1
GBA	49.81	286	Pc	34	00.70	-1.1
	0.8s		6.30nm			4.7mb
WMQ	54.16	326	P	34	34.00	-0.1
QUE	62.92	303	eP	35	35.20	-0.1
ILT	75.81	19	eP	36	54.00	0.8
ZOBO	159.68	136	PKP	45	10.00	3.6X
	S.D. = 1.0		on 37 of 40 obs.			

MAR 19, 1991 19h 39m 50.33± 0.58s
41.742 N ± 4.5km 22.904 E ± 5.1km
DEPTH = 5.0km (geophysicist)
YUGOSLAVIA (383)
MD 2.5 (THE).

VAY	0.49	211	iPg	40	01.00	0.9
			iSg	40	07.00	
KNT	0.58	180	iPc	40	01.60	-0.3
MMB	0.64	104	iPgd	40	03.00	-0.1
			Sg	40	12.00	
SRS	0.81	140	ePc	40	05.76	-0.8
GRG	0.87	206	ePc	40	06.88	-0.7
			eS	40	18.68	
VTS	0.88	15	iPgd	40	07.00	-0.8
			iSg	40	18.00	
SOH	0.98	160	ePc	40	08.52	-0.9
THE	1.11	178	ePc	40	11.52	-0.1
PGB	1.24	49	iP	40	14.00	0.1
			iSg	40	28.00	
RZN	1.36	92	iPc	40	16.00	0.0
PLD	1.39	74	eP	40	17.00	0.6
			iSg	40	36.00	
OHR	1.70	249	ePn	40	21.00	0.1
KDZ	1.88	92	iPd	40	24.00	0.5
PAIG	1.91	162	ePc	40	25.20	1.4
			eS	40	47.44	
	S.D. = 0.7		on 14 of 14 obs.			

MAR 19, 1991 19h 44m 12.30± 0.96s
37.040 N ± 9.8km 28.727 E ± 5.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YER	0.37	285	iPg	44	20.00	0.1
			iSg	44	28.50	
CIN	0.76	318	iPgd	44	27.00	-0.1
			iSg	44	35.00	
ELL	0.99	107	iPn	44	30.40	-0.8
KHL	1.43	26	iPn	44	38.20	-0.1
BCK	1.54	74	iPn	44	41.00	1.0
IZM	1.78	320	ePn	44	43.70	0.3
ALT	2.29	28	iPn	44	50.40	-0.4
DST	2.56	358	ePn	44	54.50	-0.1
YLV	3.56	8	ePn	45	08.00	-0.7
BBTK	4.23	47	iPc	45	19.00	0.7
	S.D. = 0.7		on 10 of 10 obs.			

MAR 19, 1991 19h 53m 30.70± 0.50s
11.280 S ± 6.9km 118.503 E ± 9.5km
DEPTH = 33.0km (normal)
4.8mb (10 obs.)
SOUTH OF SUMBAWA ISLAND (291)

MKS	6.10	9	iPc	55	03.20	2.2
TRT	6.79	301	iPd	55	05.50	-5.2X
			iS	56	19.20	
MBL	9.91	173	iPd	55	52.10	-1.8
	0.3s		34.00nm			6.1mb X
			eS	57	34.00	
KNA	10.92	115	eP	56	07.00	-0.9
			eS	58	01.00	
NANU	11.57	194	eP	56	15.50	-1.2
			eS	58	15.00	
MTN	12.45	98	eP	56	28.00	-0.5
	0.4s		29.00nm			5.8mb
			eS	58	39.00	
MEKA	15.25	180	eP	57	06.00	0.6
			eS	59	39.00	
WARB	16.70	154	eP	57	23.20	-0.7
	0.3s		18.00nm			4.7mb
			eS	00	17.00	
WB2	17.52	121	iPd	57	32.90	-1.3
	0.9s		12.00nm			4.0mb
			i	57	36.90	
			eS	00	38.10	

ASPA	19.15	132	eP	57	55.90	1.7
	0.8s		19.20nm			4.4mb
			i	00	05.40	
BAL	19.30	185	eP	57	56.80	0.9
	0.3s		30.00nm			5.1mb
			eS	01	15.00	
COOL	19.66	173	eP	58	00.00	0.1
			eS	01	22.00	
KLB	20.23	182	eP	58	08.00	2.2
	0.3s		15.00nm			4.8mb
			eS	01	34.00	
MUN	20.71	186	eP	58	15.00	4.2X
			eS	01	46.00	
NWAO	21.58	183	eP	58	22.00	2.4
	0.4s		21.00nm			4.9mb
			eS	02	08.00	
GBA	47.65	300	Pd	02	05.70	-0.4
	0.7s		4.90nm			4.6mb
HYB	48.69	305	eP	02	14.50	0.3
GUN	50.16	322	P	02	25.08	-0.7
PKI	50.20	321	P	02	25.54	-0.5
	0.5s		5.00nm			4.8mb
DMN	50.42	321	P	02	27.58	0.0
KKN	50.44	321	P	02	27.56	-0.1
GKN	50.99	321	P	02	31.94	0.1
	0.4s		10.00nm			5.2mb
BBTK	93.90	310	eP	06	44.00	-2.5
			e	08	36.00	
	S.D. = 1.4		on 21 of 23 obs.			

MAR 19, 1991 20h 06m 50.11± 0.38s
34.777 N ± 5.1km 26.357 E ± 3.8km
DEPTH = 33.0km (normal)
4.2mb (22 obs.)
CRETE (370)
ML 4.2 (ATH).

NPS	0.78	309	ePg	07	02.90	-1.8
YER	2.82	33	iPn	07	34.50	0.6
VLI	3.39	306	ePn	07	42.30	0.3
ELL	3.49	55	iPn	07	34.90	-8.7X
IZM	3.69	11	ePn	07	45.20	-1.0
ATH	3.83	327	ePn	07	50.50	2.3
BCK	4.35	51	iPn	07	57.50	1.9
KHL	4.36	35	ePn	07	55.20	-0.6
PRK	4.46	359	ePn	07	55.70	-1.5
EZN	5.04	360	iPn	08	03.80	-1.5
DST	5.15	20	eP	08	07.00	0.0
ALT	5.22	34	ePn	08	07.40	-0.6
AGG	5.33	324	ePd	08	10.70	1.3
PAIG	5.57	338	iPc	08	12.40	-0.3
KCT	5.69	16	ePn	08	09.00	-5.5X
CSS	5.74	86	e(P)	08	15.00	-0.2
VLS	5.75	308	ePn	08	18.50	3.0X
ALN	6.11	358	ePd	08	19.60	-0.9
LIT	6.14	331	ePc	08	21.96	1.1
YLV	6.25	22	eP	08	24.30	1.7
RDO	6.39	354	ePn	08	23.50	-0.9
THE	6.43	336	ePc	08	25.80	0.8
EYL	6.52	26	eP	08	33.70	7.4X
KZN	6.61	328	ePn	08	29.00	1.4
SRS	6.70	342	ePc	08	30.76	2.1
GRG	6.92	334	ePc	08	33.56	1.8
KNT	6.93	338	ePc	08	33.40	1.4
FNA	7.18	328	ePd	08	36.80	1.4
VAY	7.18	337	eP	08	38.50	3.0X
ATZ	7.67	102	iP	08	42.40	0.0
			eS	10	03.00	
ZNT	7.67	107	iP	08	41.90	-0.5
			eS	10	04.00	
OHR	7.70	327	eP	08	41.00	-1.7
HRI	7.93	98	eP	08	46.00	-0.1
			eS	10	13.00	
SKO	8.15	333	iP	08	50.40	1.3
DSI	8.21	110	eP	08	49.00	-0.9
			eS	10	15.00	
LCI	8.67	312	P	08	53.50	-2.7
MBH	8.77	122	eP	08	56.00	-1.7
			eS	10	32.00	
SOI	8.93	295	P	09	00.00	0.2
HOL	9.20	124	ePc	09	03.70	0.3
TDS	9.36	304	P	09	05.00	-0.7
ATN	9.40	294	P	09	07.00	0.7
BRT	9.46	313	P	09	04.70	-2.4
ORI	9.48	307	P	09	07.00	-0.4
MEU	9.55	287	P	09	10.00	1.5
BADA	9.65	128	eP	09	11.00	1.3

MGR	10.11	305	P	09	16.00	-0.1
SGO	10.48	307	P	09	21.00	-0.1
FAI	10.57	287	P	09	26.40	4.1X
MLR	10.71	358	ePd	09	25.00	0.7
VRI	11.08	1	ePd	09	33.00	3.7X
DUI	11.60	310	P	09	37.00	0.5
ASS	13.49	312	P	10	03.00	1.4
ARV	13.56	314	P	10	03.40	0.9
PGF	15.60	305	eP	10	29.40	0.1
	0.7s		6.60nm			3.9mb
KBA	15.71	325	e(P)	10	36.00	5.3X
			e	11	03.00	
KHC	17.17	331	eP	10	50.90	1.9
SBF	17.19	307	eP	10	49.80	0.5
	0.8s		12.10nm			4.1mb
PRU	17.49	334	eP	10	52.00	-0.9
LPG	18.37	312	eP	11	03.80	-0.4
	0.6s		4.95nm			3.9mb
LPL	18.39	312	eP	11	03.60	-0.8
	0.6s		3.60nm			3.7mb
CLL	19.14	334	eP	11	12.00	-1.1
BSF	19.58	318	eP	11	12.60	-5.7X
	0.6s		3.60nm			3.8mb
CDF	19.66	320	eP	11	16.90	-2.2
	0.6s		5.40nm			4.0mb
HAU	19.92	318	eP	11	19.80	-2.0
	0.6s		3.60nm			3.9mb
Z	20s		0.10um			4.3Msz
SMF	20.70	312	eP	11	26.30	-3.6X
	0.6s		4.50nm			4.0mb
LBF	20.77	313	eP	11	27.80	-2.9
	0.8s		8.05nm			4.2mb
LOR	20.98	313	eP	11	30.00	-2.8
	0.6s		6.30nm			4.2mb
Z	21s		0.15um			3.3Msz
AVF	21.07	312	eP	11	32.10	-1.5
	0.8s		5.35nm			4.0mb
SSF	21.10	312	eP	11	31.30	-2.6
	0.8s		24.20nm			4.7mb
MEM	21.66	323	P	11	44.30	4.8X
DOU	22.07	321	P	11	44.50	0.9
	0.4s		10.00nm			4.6mb
MFF	23.19	309	eP	11	57.70	3.0X
	0.8s		10.75nm			4.4mb
LDF	23.97	313	eP	12	03.90	1.7
FLN	24.25	313	eP	12	06.60	1.6
Z	22s		0.10um			3.3Msz
LPF	24.30	311	eP	12	07.10	1.7
GRR	24.33	312	eP	12	07.00	1.3
HFS	26.68	346	eP	12	31.00	3.3X
	0.6s		4.40nm			4.3mb
EKA	28.92	324	P	12	51.00	3.0X
	2.5s		311.80nm			5.6mb X
TIC	40.24	233	P	14	26.50	1.0
	0.6s		4.00nm			4.3mb
KIC	40.26	233	P	14	26.80	1.1
	0.6s		5.50nm			4.5mb
LIC	40.55	233	P	14	29.00	0.9
HYB	49.41	97	eP	15	39.50	0.6
GKN	49.62	81	P	15	40.84	0.2
	0.7s		15.00nm			5.1mb
DMN	50.16	81	P	15	45.28	0.4
KKN	50.22	81	P	15	45.32	0.0
	0.6s		12.00nm			5.1mb
PKI	50.42	81	P	15	46.82	-0.1
	0.8s		14.00nm			5.0mb
GUN	50.66	80	P	15	48.82	0.0
FRB	61.49	330	eP	17	04.00	-1.5
SCH	64.09	320	eP	17	22.00	-1.0
CHTO	65.46	84	P	17	32.90	0.6
			e	17	38.20	
YKA	78.11	343	eP	18	45.70	-1.2
	0.5s		0.60nm			3.9mb
FFC	80.43	333	iPd	18	59.60	0.0
	0.6s		5.00nm			4.7mb
	S.D. = 1.3		on 78 of 92 obs.			

• MAR 19, 1991 20h 29m 34.87± 0.62s
5.754 S ± 8.7km 35.629 E ±16.3km
DEPTH = 33.0km (normal)
4.7mb (3 obs.)
TAÑZANIA (573)
mbLg 4.6 (BUL).

NAI	4.60	15	iPd	30	42.60	-1.6
	0.8s		33.58nm			
			S	30	56.00	

19d 20h

NPA	9.94	159	eP	31	57.00	-1.5
			e	33	41.80	
			e	33	59.30	
			eSg	34	44.30	
KRI	12.48	208	iPn	32	33.90	0.6
			iSn	34	47.40	
			iLg	36	07.00	
BUL	15.85	205	iPn	33	17.20	-0.2
SLR	21.08	199	iPc	34	19.00	0.0
	1.0s	25.00nm			4.6mb	
			S	38	43.00	
GKN	57.95	52	P	39	27.00	0.1
DMN	58.14	53	P	39	28.74	0.4
KKN	58.36	52	P	39	30.12	0.3
PKI	58.36	53	P	39	32.42	2.4X
GUN	58.89	53	P	39	34.02	0.3
	0.9s	20.00nm			5.2mb	
CHTO	66.96	67	P	40	28.70	1.8
NB2	69.27	348	P	40	40.40	-0.2
	1.0s	4.90nm			4.5mb	
S.D. = 1.0 on 11 of 12 obs.						

? MAR 19, 1991 20h 34m 08.16± 0.90s
13.244 N ±11.6km 70.900 W ±15.6km
DEPTH = 33.0km (normal)
4.4mb (2 obs.)
CARIBBEAN SEA (94)

MORO	3.46	133	iP	35	01.70	0.6
			iS	35	45.00	
TOV	3.60	162	ePn	35	05.30	2.2
			eSn	35	50.00	
SDV	4.34	177	ePn	35	13.50	-0.2
			iSn	36	08.80	
LLAV	4.86	124	iP	35	20.20	-0.8
			iS	36	16.70	
CEOS	4.89	149	iP	35	21.10	-0.3
			eS	36	22.90	
OLLA	5.14	128	iP	35	24.90	0.0
			eS	36	26.70	
ZOBO	29.45	175	P	40	11.80	-0.2
Z	20s	0.18um			3.7Msz	
			S	45	28.00	
			LR	51	12.00	
LPB	29.72	175	eP	40	17.00	2.8X
CNCB	30.00	174	P	40	15.00	-1.9
SIV	30.63	161	P	40	19.00	-2.8X
FFC	47.99	336	eP	42	47.00	1.2
	0.7s	6.00nm			4.7mb	
YKA	58.10	338	eP	43	59.80	-0.7
	0.6s	0.90nm			4.0mb	
S.D. = 1.3 on 10 of 12 obs.						

% MAR 19, 1991 20h 41m 05.96± 0.67s
42.291 N ± 6.3km 13.200 E ± 6.6km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

AQU	0.16	67	P	41	09.60	-0.1
			eSg	41	11.60	
AZI	0.35	150	P	41	13.60	0.4
			eSg	41	16.60	
MNS	0.40	284	P	41	13.90	-0.2
			eSg	41	19.00	
SDI	0.74	142	P	41	20.20	-0.4
ASS	0.87	333	P	41	23.00	0.2
ARV	1.22	351	P	41	28.80	0.1
S.D. = 0.4 on 6 of 6 obs.						

MAR 19, 1991 20h 51m 09.64± 0.89s
51.555 N ± 7.8km 6.363 E ± 7.9km
DEPTH = 10.0km (geophysicist)
GERMANY (543)
ML 2.9 (LDG).

WTS	0.52	32	ePg	51	20.00	-0.2
BNS	0.78	139	iPd	51	24.60	-0.3
	0.2s	60.00nm				
			iS	51	34.50	
ENN	0.84	199	iPgc	51	28.00	2.2
	0.5s	16.00nm				
			eSg	51	39.50	
MEM	0.97	193	iP	51	28.80	0.7
			iS	51	42.30	
SNF	1.68	232	iP	51	41.40	2.3
ABH	1.84	155	ePn	51	41.55	0.0
TNS	1.88	134	ePnd	51	43.40	1.3
			eSn	52	08.20	
RUP	1.91	166	ePn	51	43.02	0.5
CDF	3.20	169	Pn	52	00.60	-0.4
			Pg	52	11.00	
			Sg	52	51.20	
HAU	3.55	180	Pg	52	16.60	10.6X
			Sg	53	02.00	
LOR	4.59	202	Pn	52	20.10	-0.6
			Sn	53	10.80	
			Sg	53	35.00	
LBF	4.83	200	Pn	52	23.20	-1.0
			Sg	53	44.40	
SSF	4.87	204	Pn	52	23.70	-1.0
AVF	5.16	204	Pn	52	27.40	-1.3
SMF	5.19	200	Pn	52	28.00	-1.1
FLN	5.21	240	Pn	52	29.60	0.2
BGF	5.51	206	Pn	52	32.40	-1.3
			Sn	53	32.80	
			Sg	54	03.80	
S.D. = 1.2 on 16 of 17 obs.						

MAR 19, 1991 21h 06m 07.69± 1.37s
36.932 N ±14.1km 27.410 E ± 6.1km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)

YER	0.73	74	iPg	06	20.50	-1.5
			eSg	06	28.50	
IZM	1.47	355	iPn	06	33.70	-0.5
ELL	2.01	94	iPn	06	43.40	1.2
KHL	2.18	50	ePn	06	43.70	-0.9
BCK	2.59	77	iPn	06	50.50	0.0
DST	2.84	19	ePn	06	55.00	1.1
ALT	3.01	44	ePn	06	56.00	-0.3
EZN	3.01	344	ePn	06	55.80	-0.5
YLV	3.94	22	ePn	07	11.80	2.2
ALN	4.10	345	ePc	07	11.24	-0.4
PAIG	4.19	317	iPd	07	13.16	0.2
LIT	4.99	311	ePd	07	24.20	-0.2
BBTK	5.11	54	eP	07	26.00	-0.2
SRS	5.13	326	ePd	07	25.88	-0.5
KNT	5.49	322	ePc	07	31.44	-0.1
GRG	5.60	317	ePc	07	33.44	0.3
S.D. = 1.0 on 16 of 16 obs.						

MAR 19, 1991 21h 23m 26.53± 0.82s
36.269 N ± 7.7km 29.129 E ± 8.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ELL	0.79	52	iPg	23	42.90	0.9
			iSg	23	53.90	
YER	1.10	322	iPg	23	47.50	0.3
			iSg	23	59.50	
CIN	1.57	328	ePg	23	56.00	1.6
			iSg	24	03.00	
BCK	1.67	44	iPn	23	57.00	1.0
KHL	2.07	9	iPn	24	00.20	-1.7
IZM	2.59	326	iPn	24	09.20	-0.1
ALT	2.89	15	ePn	24	13.00	-0.5
DST	3.35	353	ePn	24	19.00	-1.1
ADI	5.95	121	eP	24	57.00	0.3
ATZ	6.12	122	eP	24	59.00	-0.3
			eS	26	04.00	
MML	6.45	125	eP	25	04.00	0.1
DSI	7.00	130	eP	25	11.00	-0.5
S.D. = 1.0 on 12 of 12 obs.						

MAR 19, 1991 21h 29m 26.55± 0.20s
34.833 N ± 2.9km 26.375 E ± 2.1km
DEPTH = 22.0km (3 depth phases)
4.8mb (58 obs.) 4.2Msz (4 obs.)
CRETE (370)
MD 4.8 (ATH), 4.8 (THE), 4.5 (HLW).

NPS	0.76	305	ePg	29	41.70	0.7
YER	2.77	33	iPg	30	12.50	1.9
CIN	3.09	26	eP	30	17.00	2.0
VLI	3.37	305	ePn	30	20.70	1.7
ELL	3.45	55	iPn	30	22.40	2.1
IZM	3.63	11	iPn	30	23.20	0.4
ATH	3.80	326	ePn	30	34.00	8.9X
BCK	4.30	51	iPn	30	34.00	1.7
KHL	4.31	35	iPn	30	30.20	-2.2
PPCY	4.91	88	eP	30	39.50	-1.3
EZN	4.98	360	iPn	30	42.20	0.3
DST	5.09	20	iPn	30	44.60	1.1
ALT	5.17	34	iPn	30	45.50	0.9
AGG	5.29	323	eP	30	47.80	1.5
PAIG	5.52	338	iPc	30	50.34	0.9
			eS	31	54.80	
EDC	5.63	12	iPn	30	51.50	0.4
KCT	5.63	16	ePn	30	50.70	-0.4
BNT	5.65	12	iPn	30	50.70	-0.6
CSS	5.72	87	eP	30	51.00	-1.3
			eSn	31	59.80	
VLS	5.73	307	ePn	30	54.00	1.5
LIT	6.10	331	eP	30	59.26	1.6
			eS	32	09.80	
YLV	6.20	22	iPn	30	59.70	0.6
FAM	6.27	86	e(P)	31	05.50	5.4X
RDO	6.34	354	ePn	31	00.70	-0.3
THE	6.39	336	eP	31	04.06	2.3
GBZT	6.42	21	eP	31	03.50	1.3
SOH	6.44	339	eP	31	04.00	1.5
EYL	6.46	27	eP	31	05.20	2.3
HLW	6.50	138	ePc	31	04.00	0.7
			eS	32	12.50	
CTT	6.51	14	ePn	31	04.20	0.7
HRT	6.52	23	eP	31	04.70	1.0
ISK	6.57	18	eP	31	04.70	0.4
KZN	6.57	328	ePn	31	08.10	3.7X
SRS	6.65	342	eP	31	07.42	2.0
KOT	6.72	135	ePn	31	06.00	-0.4
			eSn	32	08.50	
IGT	6.73	316	eP	31	06.70	0.2
KDZ	6.85	354	eP	31	08.00	-0.2
GRG	6.87	334	iP	31	10.10	1.5
KNT	6.89	338	eP	31	11.10	2.3
RZN	6.97	350	iPc	31	10.00	-0.1
MMB	7.06	344	eP	31	12.00	0.8
BBTK	7.13	44	iPd	31	13.00	0.7
FNA	7.14	328	eP	31	12.00	-0.3
VAY	7.14	336	iPn	31	16.70	4.5X
KEK	7.16	315	ePn	31	11.20	-1.3
PLD	7.38	350	eP	31	16.00	0.4
ADI	7.56	101	eP	31	18.00	-0.2
JMB	7.62	1	eP	31	21.00	1.9
OHR	7.66	327	ePn	31	18.00	-1.6
			LQ	32	53.30	
ATZ	7.67	103	eP	31	20.00	0.3
			eS	32	42.00	
ZNT	7.68	107	eP	31	19.00	-0.8
			eS	32	41.00	
BHL	7.73	94	P	31	26.00	5.4X
PGB	7.90	348	eP	31	23.00	0.1
			i	33	23.00	
JVI	8.04	109	eP	31	23.00	-2.0
SKO	8.11	333	iPn	31	26.00	0.1
	1.1s	160.00nm			6.2mb X	
Z	13s	3.57um				
N	12s	3.79um				
E	11s	4.32um				
			iPb	31	39.70	
			iSn	32	57.00	
			i	33	04.00	
			iSg	33	32.00	
			LQ	34	57.00	
			LR	35	02.00	
VTS	8.13	343	iPc	31	28.00	1.7
SALJ	8.28	107	Pd	31	27.69	-0.6
MKT	8.33	115	eP	31	28.00	-1.1
			eS	32	56.00	
JARJ	8.40	105	Pd	31	28.81	-1.2
PVL	8.41	355	iPc	31	30.00	0.0
MASJ	8.41	109	Pc	31	27.76	-2.4
MKRJ	8.43	110	Pd	31	30.44	0.1
LCI	8.65	312	P	31	29.60	-3.7X
			eSn	33	00.60	
KAS	8.75	40	eP	31	38.50	3.7X
MBH	8.79	123	eP	31	35.00	-0.4
JRDJ	8.83	115	P	31	37.35	1.4
SOI	8.92	294	P	31	36.40	-0.7
			eSn	33	11.50	
PSN	8.95	8	iPd	31	37.00	-0.4
ULC	9.05	324	ePn	31	36.00	-2.9
			eSn	33	15.00	
GAZ	9.09	72	eP	31	36.90	-2.5
GMB	9.09	295	P	31	39.65	0.0
HOL	9.21	125	ePc	31	41.10	0.0
TDS	9.34	304	P	31	42.80	-0.1
			eSn	33	20.30	
ATN	9.39	294	P	31	43.70	0.1

19d 21h

			eSn	33	19.10		TAB		16.37	73	eP	33	22.00	5.3X	LOR		20.95	313	eP	34	08.50	-1.8
TTG	9.40	326	ePn	31	40.00	-3.7X	WTTA		16.63	323	iPc	33	20.80	0.9		Z	21s		1.35um			4.3Msz
			eSn	33	21.50						i	33	22.50		AVF		21.04	312	eP	34	09.50	-1.6
CSTJ	9.41	110	P	31	41.01	-2.9					i	33	30.30				1.0s		48.00nm			4.9mb
BRT	9.43	312	P	31	41.30	-2.8					i	34	12.80		SSF		21.07	312	iPc	34	10.10	-1.3
ORI	9.46	306	P	31	43.90	-0.7	PCP		16.77	311	P	33	21.70	0.1	CAF		21.13	306	eP	34	12.40	0.2
IVA	9.48	330	ePn	31	48.00	3.1X	FIN		16.83	309	P	33	22.11	-0.2			0.6s		14.45nm			4.6mb
			eSn	33	37.00		CKI		16.88	310	P	33	25.00	2.1	BGF		21.25	311	eP	34	12.20	-1.1
BDV	9.50	324	ePn	31	44.50	-0.5	IMI		16.90	308	P	33	23.96	0.8			0.5s		16.40nm			4.7mb
			eSn	33	28.00		ROB		17.08	309	P	33	25.60	0.1	EBR		21.26	294	eP	34	13.50	0.1
BUC1	9.51	359	ePd	31	48.00	2.9X	KHC		17.13	330	P	33	24.90	-1.1	MAF		21.29	309	eP	34	12.50	-1.2
MEU	9.55	287	P	31	45.40	-0.5			1.2s		15.00nm			4.0mb			0.7s		9.90nm			4.3mb
BUC	9.57	359	ePd	31	50.00	4.0X		Z	14s		1.50um			4.7Msz	EROO		21.32	294	iPc	34	14.00	-0.1
BADA	9.67	128	ePc	31	46.70	-0.7		N	14s		1.50um				TCF		21.54	309	eP	34	15.30	-1.0
BAI	9.78	313	P	31	47.00	-1.9		E	14s		1.50um						0.8s		8.05nm			4.2mb
HCY	9.78	323	ePn	31	48.00	-1.0					e	33	47.50		MEM		21.63	323	iPc	34	16.20	-0.8
			eSn	33	36.00		SBF		17.17	307	eP	33	26.50	-0.2	RJF		21.63	306	eP	34	16.60	-0.5
NKY	9.82	326	ePn	31	48.20	-1.5			0.8s		71.20nm			4.8mb			0.8s		20.15nm			4.6mb
			eSn	33	36.00		VDL		17.28	317	eP	33	31.00	2.9X		Z	21s		0.85um			4.1Msz
MNO	9.91	292	P	31	51.50	0.5	VAI		17.32	315	P	33	29.10	0.7	LPO		21.64	305	eP	34	16.90	-0.4
DRA	9.97	351	eP	31	52.00	0.5	ENR		17.34	308	P	33	29.50	0.7			0.8s		28.20nm			4.7mb
PLE	10.07	330	ePn	31	56.00	3.0X	STV		17.41	308	P	33	30.32	0.7	ACU		21.77	288	eP	34	19.00	0.4
			eSn	33	46.00		WET		17.43	329	eP	33	29.10	-0.7	ENN		21.77	323	eP	34	17.50	-0.9
MGR	10.09	305	P	31	53.00	-0.3	FUR		17.43	324	eP	33	30.20	0.4			1.0s		30.00nm			4.7mb
BRY	10.10	325	ePn	31	53.50	0.0	PRU		17.45	334	Pd	33	28.70	-1.3	EPF		21.78	300	eP	34	17.20	-1.5
			eSn	33	46.00				0.8s		27.60nm			4.4mb			0.6s		9.00nm			4.4mb
CFR	10.43	7	ePd	32	03.00	5.2X		Z	11s		2.00um			3.7MszX	LSF		21.96	309	eP	34	19.60	-0.9
SGO	10.46	306	P	31	56.60	-1.7		N	12s		1.40um						1.3s		63.20nm			4.9mb
CMP	10.47	355	ePc	31	58.00	-0.5		E	13s		1.30um				LFF		22.03	305	eP	34	20.80	-0.3
FAI	10.57	287	P	32	00.70	1.0					i	33	30.20				0.6s		21.65nm			4.8mb
COZ	10.59	352	ePd	32	10.00	9.8X					e	34	20.20		DOU		22.04	320	Pc	34	20.10	-1.0
MLR	10.65	358	ePd	32	03.00	2.0	FRF		17.57	306	eP	33	32.30	0.8			0.5s		66.10nm			5.3mb
MCT	10.66	289	P	32	03.90	2.6			0.5s		9.50nm			4.2mb	WTS		22.16	327	eP	34	21.00	-1.3
TNR	10.93	352	ePc	32	09.00	4.4X	LMR		17.57	305	eP	33	32.60	1.0			1.0s		24.00nm			4.6mb
BEO	10.96	337	eP	32	06.50	1.4			0.9s		14.75nm			4.1mb	BTH		22.19	300	P	34	30.50	7.7X
CVO	10.98	359	ePd	32	07.50	2.1	KSP		17.60	338	ePd	33	21.00	-10.8X	ECHE		22.25	290	eP	34	25.00	1.6
VRI	11.03	1	ePd	32	07.50	1.5	ORO		17.66	313	P	33	32.50	-0.3	SRAT		22.43	134	ePc	34	32.00	6.4X
HVAR	11.35	320	ePn	32	06.50	-3.9X	ORX		17.67	313	P	33	31.44	-1.4	SNF		22.44	321	Pd	34	24.80	-0.3
			iSn	34	08.70		PZZ		17.67	309	P	33	33.39	0.5	UCC		22.57	322	P	34	26.20	-0.2
BZS	11.37	343	eP	32	11.50	0.9	BHB		17.72	310	P	33	33.08	-0.3	MFF		23.17	309	eP	34	32.90	0.6
DUI	11.58	310	P	32	12.10	-1.5	LRG		17.72	305	eP	33	34.60	1.2			0.7s		30.85nm			4.9mb
SDI	12.01	309	P	32	18.80	-0.7			1.2s		59.50nm			4.6mb	ETOR		23.18	293	iPd	34	32.80	0.2
AZI	12.40	309	P	32	25.00	0.4		Z	20s		1.23um			5.6Msz	ENIJ		23.22	284	iPd	34	33.80	0.8
AQU	12.61	310	P	32	25.50	-2.0	SAX		17.81	319	ePd	33	36.70	1.9	EVIA		23.41	288	iP+	34	35.70	0.8
ALP	12.74	312	eP	32	28.58	-0.7	RSP		17.87	311	P	33	36.57	1.2	ECRI		23.76	298	eP	34	37.70	-0.4
MNS	13.09	309	P	32	33.00	-0.8	MMK		17.90	314	ePd	33	35.50	-0.4	LDF		23.94	313	eP	34	39.20	-0.6
UZD	13.14	336	e(P)	32	38.00	3.6X	RRL		18.06	310	P	33	38.42	0.6			0.5s		10.20nm			4.6mb
AOI	13.17	315	e(P)	32	37.75	2.8X	LSD		18.08	312	P	33	39.03	0.9	FLN		24.23	313	eP	34	42.30	-0.2
CIO	13.24	313	eP	32	35.85	0.1	BNI		18.19	310	P	33	42.00	2.7			0.8s		44.35nm			5.1mb
ASS	13.46	312	P	32	37.50	-1.2	CDR		18.20	305	ePc	33	39.50	0.1	AFC		24.27	284	eP	34	45.00	1.7
ARV	13.53	314	P	32	38.70	-0.9	DIX		18.24	314	ePd	33	40.50	0.4	LPF		24.27	311	eP	34	42.50	-0.5
VBY	13.62	325	eP	32	44.90	4.2X	LPG		18.35	311	eP	33	41.80	0.3			0.7s		22.05nm			4.8mb
RIY	13.93	323	eP	32	45.30	0.6			0.8s		28.20nm			4.5mb	GRR		24.30	312	eP	34	42.80	-0.5
PSZ	13.94	342	eP	32	47.00	2.0	LPL		18.37	311	eP	33	41.90	0.2			0.6s		48.70nm			5.3mb
RSM	14.07	314	P	32	47.40	0.8			0.4s		13.20nm			4.5mb	EBAN		24.42	287	iPd	34	45.70	1.1
CEY	14.19	324	e(P)	32	48.00	-0.2	BRG		18.40	334	iP	33	39.80	-1.9	TOL		24.64	291	eP	34	47.50	0.9
			e(S)	35	20.00				1.0s		30.00nm			4.4mb					eS	39	15.00	
CRE	14.20	312	P	32	48.00	-0.5	ZLA		18.47	319	ePd	33	41.80	-0.9	GUD		24.76	293	iPd	34	49.10	1.2
SRO	14.30	338	eP	32	48.90	-0.7	RSL		18.52	312	P	33	42.66	-0.8	MAL		25.00	283	eP	34	52.00	1.9
			i	33	20.70		EMS		18.52	313	ePd	33	42.60	-0.9					iS	39	26.00	
LJU	14.36	325	e(P)	32	54.00	3.6X	GRF		18.55	328	eP	33	42.30	-1.4	EPRU		25.63	284	iP+	34	57.70	1.5
			e(S)	35	28.00			Z	20s		1.00um				NUR		25.72	358	eP	34	55.00	-1.6
PGD	14.48	313	P	32	54.91	2.8X					eScS	37	11.00		EJIF		25.87	283	iP+	34	58.20	-0.1
TRI	14.49	322	P	32	52.00	-0.2	SLE		18.58	319	ePd	33	42.90	-1.2	IFR		26.04	276	iPd	35	02.50	2.3
VOY	14.66	323	e(P)	32	53.20	-1.2	FEL		18.91	319	P	33	47.23	-0.9	HFS		26.63	346	eP	35	03.90	-1.2
			e	33	00.90		BBS		18.94	317	P	33	47.74	-0.7			0.9s		13.00nm			4.6mb
FIR	14.70	312	e(Pn)	32	55.00	0.1	CLL		19.10	334	eP	33	48.00	-2.2		Z	17s		0.96um			4.4MszX
ZST	15.03	335	e(P)	32	58.00	-1.2	MOX		19.11	330	eP	33	49.00	-1.4					LR	45	24.00	
			e	33	01.80				2.0s		49.00nm			4.4mb	EVAL		26.79	286	eP	35	09.50	2.7
			e	33	12.40			Z	16s		2.60um			5.5Msz	ERUA		27.13	296	eP	35	10.20	0.4
			i	33	25.60		LOMF		19.26	316	P	33	50.00	-2.4	KAF		27.30	360	eP	35	08.00	-3.2X
SPC	15.04	344	eP	33	04.50	5.0X	MOF		19.37	318	P	33	50.74	-3.0X	EMON		27.37	298	eP	35	11.70	-0.4
BDI	15.26	312	P	33	04.00	1.7	BSF		19.55	318	eP	33	53.40	-2.3	AVE		27.96	277	eP	35	18.00	0.5
MME	15.27	312	P	33	05.50	3.0X			0.7s		18.75nm			4.5mb					i	35	35.00	73kmX
VKA	15.37	334	eP	33	07.00	3.4X	ECH		19.57	319	P	33	54.31	-1.5	NB2		27.98	344	P	35	14.90	-2.5
PGF	15.58	305	eP	33	10.40	3.9X	WLS		19.58	320	P	33	54.29	-1.7			0.8s		3.50nm			4.2mb
	0.8s		29.55nm			4.6mb	CDF		19.62	320	P	33	54.86	-1.7	AAE		28.08	153	eP	35	24.00	5.0X
FVI	15.60	323	P	33	10.60	4.0X	GWF		19.79	321	P	33	56.13	-2.0	TIO		28.44	272	eP	35	20.00	-2.0
KBA	15.67	325	e(P)	33	09.00	1.3	ETER		19.81	299	iPd	33	57.30	-1.1					e	35	32.00	46kmX
			ic	33	11.80		HAU		19.89	317	eP	33	57.30	-2.0	EKA		28.88	324	Pc	35	24.40	-1.1
			i	34	08.20			Z	22s		1.00um						0.6s		7.40nm			4.6mb
			i	36	26.30		TNS		20.19	325	ePd	34	00.90	-1.5	SOD		32.58	0	iP	35	56.40	-1.6
CTI	15.82	320	P	33	13.20	3.7X	VITF		20.21	318	P	34	01.08	-1.5	KEV		34.98	0	eP	36	18.00	-0.7
KRA	15.93	345	eP	33	10.70	-0.1	RYD		20.22	114	ePc	34	07.00	4.2X	KOGH		37.70	227	eP	36	44.00	1.7
			e	33	21.90		SMF		20.68	312	eP	34	05.40	-2.0	SHGH		37.70	226	eP	36	44.00	1.7
SAL	16.17	316	P	33	15.00	1.2			0.5s		27.35nm			4.9mb	LEGH		38.01	226	eP	36	46.00	1.1
BHG	16.36	326	eP	33	18.90	2.6	LBF		20.75	313	iPc	34	06.40	-1.8	TIC		40.28	233	P	37	04.90	1.1

19d 21h

	0.6s	17.00nm			4.9mb	
KIC	40.31	233 P	37	05.54	1.5	
	0.6s	22.00nm			5.1mb	
LIC	40.60	233 P	37	08.02	1.6	
	0.6s	19.00nm			5.0mb	
Z	20s	0.21um			4.0Msz	
NDI	43.29	84 eP	37	31.00	2.6	
WMO	47.31	60 P	38	02.00	1.6	
	1.0s	21.00nm			5.1mb	
Z	12s	0.40um			4.6MszX	
		eS	44	52.00		
HYB	49.40	97 iPc	38	18.00	1.2	
		e	38	25.20	24km	
GKN	49.59	81 P	38	17.00	-1.4	
	0.6s	30.00nm			5.5mb	
DMN	50.13	81 P	38	21.00	-1.6	
	0.8s	61.00nm			5.7mb	
KKN	50.20	81 P	38	21.80	-1.3	
	0.6s	33.00nm			5.5mb	
PKI	50.39	81 P	38	23.40	-1.3	
	0.9s	54.00nm			5.5mb	
GBA	50.54	102 P	38	25.00	-0.4	
	0.7s	7.80nm			4.8mb	
GUN	50.64	80 P	38	27.40	0.8	
	0.8s	44.00nm			5.5mb	
KRI	51.47	176 iPc	38	35.90	3.3X	
KOD	52.49	105 eP	38	42.10	1.5	
LSA	54.18	76 P	38	54.00	0.9	
GDH	54.36	334 iPd	38	52.20	-1.2	
	0.5s	28.17nm			5.6mb	
BUL	54.71	177 iPc	38	58.20	1.6	
GTA	57.24	62 P	39	15.00	0.3	
	1.0s	10.00nm			4.8mb	
		sP	39	23.20		
LZH	61.45	64 eP	39	43.50	-0.3	
	1.5s	17.00nm			5.0mb	
Z	18s	0.39um			4.6Msz	
		pP	39	49.50	20km	
		sP	39	52.50		
FRB	61.45	330 eP	39	41.00	-2.3	
CD2	63.57	69 P	39	58.60	0.7	
BTO	64.03	57 eP	40	02.00	1.2	
SCH	64.06	320 eP	40	00.00	-0.7	
	0.5s	21.00nm			5.5mb	
HHC	64.99	57 Pc	40	08.40	1.3	
	1.2s	30.00nm			5.3mb	
CHTO	65.44	84 ePc	40	10.90	0.8	
XAN	66.08	64 eP	40	14.80	0.7	
BDT	66.28	85 eP	40	16.00	0.5	
TIY	66.97	59 Pc	40	20.60	0.8	
Z	16s	0.50um			4.8MszX	
MBC	67.09	352 eP	40	19.50	-0.3	
	0.5s	4.00nm			4.8mb	
GYA	67.89	73 P	40	26.40	0.6	
BJI	68.50	56 eP	40	33.00	3.8X	
NNT	69.32	89 eP	40	34.00	-0.6	
CN2	72.65	49 eP	40	54.00	-0.3	
	1.0s	10.00nm			4.8mb	
Z	14s	0.60um			5.0MszX	
		epP	41	01.00	23km	
INK	76.08	352 eP	41	13.00	-0.6	
SOB1	77.09	249 eP	41	22.40	2.3	
PDCR	77.84	245 (P)	41	25.00	0.8	
YKA	78.06	343 eP	41	24.00	-0.7	
	0.7s	2.10nm			4.3mb	
FFC	80.38	333 iPc	41	37.90	0.5	
	0.7s	7.00nm			4.8mb	
FBA	80.49	357 P	41	38.50	0.7	
	0.7s	7.27nm			4.8mb	
PMR	83.85	358 P	41	56.30	1.1	
	0.8s	17.24nm			5.3mb	
BALM	84.03	355 P	41	56.80	0.4	
MAT	84.80	49 eP	42	01.00	0.4	
	1.4s	30.23nm			5.3mb	
SLKM	84.97	358 P	42	00.80	-0.2	
SES	87.18	334 eP	42	13.00	0.8	
RSSD	89.41	327 P	42	22.80	-0.3	
	0.7s	6.92nm			5.0mb	
NEW	91.08	337 P	42	31.50	0.9	
	0.7s	14.00nm			5.4mb	
BW06	92.89	329 P	42	37.00	-2.3	
S.D. = 1.3 on 264 of 302 obs.						

MAR 19, 1991 21h 37m 03.07± 0.92s
39.238 N ± 7.9km 20.542 E ± 7.9km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)

MD 3.0 (ATH), 2.8 (THE).

IGT	0.34	331 ePd	37	08.14	-1.9	
KEK	0.75	310 ePb	37	18.70	1.0	
VLS	1.06	178 ePb	37	23.10	0.1	
KZN	1.43	41 ePb	37	29.40	0.3	
FNA	1.67	22 eP	37	32.60	0.0	
LIT	1.73	60 ePd	37	33.34	-0.1	
		eS	37	57.74		
OHR	1.88	6 ePn	37	36.00	0.4	
PAIG	2.52	73 ePd	37	43.74	-1.0	
VAY	2.60	36 ePn	37	48.20	2.4	
KNT	2.64	42 ePd	37	45.90	-0.5	
SOH	2.68	53 eP	37	45.50	-1.5	
SRS	3.00	50 ePc	37	52.18	0.7	
S.D. = 1.3 on 12 of 12 obs.						

MAR 19, 1991 22h 43m 02.22± 0.40s
45.929 N ± 3.8km 7.990 E ± 3.5km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.5 (LDG).

MMK	0.12	352 ePd	43	05.20	-0.3	
ORO	0.30	181 Pc	43	08.60	0.0	
		eSg	43	12.80		
DIX	0.43	291 ePd	43	10.50	-0.6	
VAI	0.55	96 Pc	43	12.40	-0.9	
		eSg	43	19.10		
EMS	0.75	281 ePc	43	16.60	-0.5	
LPG	0.97	244 Pg	43	20.40	-0.5	
		Sg	43	32.40		
LPL	0.97	245 Pg	43	20.20	-0.7	
LLS	1.17	36 ePc	43	23.40	-0.8	
BNI	1.27	227 P	43	26.20	0.2	
OSS	1.67	62 ePd	43	32.20	0.3	
SLE	1.87	10 ePd	43	34.90	0.3	
BSF	2.07	337 Pg	43	44.60	7.0X	
		Sg	44	10.40		
SBF	2.10	191 Pg	43	39.60	1.6	
		Sg	44	05.20		
HAU	2.36	332 Pn	43	42.20	0.5	
		Pg	43	47.80		
		Sg	44	20.00		
CDF	2.53	349 Pn	43	45.00	0.9	
SMF	2.96	285 Pn	43	50.80	0.6	
LOR	3.15	297 Pn	43	52.80	0.0	
SSF	3.30	292 Pn	43	56.00	1.1	
AVF	3.32	287 Pn	43	55.80	0.5	
BGF	3.62	282 Pn	43	58.50	-1.1	
CAF	4.29	259 Pn	44	08.20	-0.9	
S.D. = 0.8 on 20 of 21 obs.						

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* MAR 19, 1991 23h 04m 04.17± 1.16s
51.001 N ±11.9km 156.191 E ± 9.4km
DEPTH = 130.4 ± 10.9 km
4.4mb (7 obs.)
KAMCHATKA (217)

PET	2.53	36 eP	04	45.00	-0.2	
	0.6s	80.00nm				
		eS	05	13.00		
MAT	19.35	229 (P)	08	22.00	0.2	
	0.7s	8.90nm			4.2mb	
ILT	20.94	27 eP	08	39.00	1.5	
FBA	31.60	42 P	10	15.40	-0.6	
INK	36.99	36 eP	11	02.00	0.1	
YKA	46.33	40 eP	12	17.60	-0.4	
	0.6s	1.60nm			3.9mb	
CHTO	55.09	256 P	13	24.80	0.1	
FFC	56.21	43 eP	13	32.00	-0.3	
	1.0s	10.00nm			4.7mb	
GUN	56.68	274 P	13	36.06	-0.4	
KKN	57.14	275 P	13	39.80	0.3	
	0.6s	10.00nm			5.0mb	
PKI	57.22	274 P	13	39.58	-0.6	
DMN	57.38	275 P	13	41.32	0.1	
GKN	57.40	275 P	13	41.06	-0.2	
	0.5s	7.00nm			4.9mb	
TNP	59.62	66 P	13	56.50	-0.1	
WRA	73.21	201 P	15	22.00	-0.2	
	0.5s	1.40nm			4.0mb	
ASPA	76.90	201 iPd	15	43.80	0.6	
	0.6s	3.80nm			4.3mb	
S.D. = 0.6 on 16 of 16 obs.						

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* MAR 19, 1991 23h 58m 10.24± 0.68s
13.306 N ± 6.1km 70.758 W ±12.6km
DEPTH = 33.0km (normal)
4.3mb (3 obs.)
CARIBBEAN SEA (94)

TOV	3.62	165 ePn	59	07.90	2.4	
		iSn	59	49.60		
SDV	4.39	178 ePn	59	16.50	-0.1	
LLAV	4.78	126 iP	59	22.50	0.6	
		iS	00	17.60		
MGP	5.86	37 eP	59	37.80	0.7	
MCP	6.18	34 eP	59	40.00	-1.6	
SJG	6.52	42 e(P)	59	47.00	0.6	
CPD	6.63	44 eP	59	47.00	-0.9	
LPR	6.85	43 eP	59	51.00	0.0	
ZOBO	29.50	175 P	04	14.00	-0.5	
Z	22s	0.18um			3.7MszX	
		LR	14	20.00		
LPB	29.76	175 P	04	16.00	-0.7	
CNCB	30.05	175 P	04	17.00	-2.4	
SIV	30.64	161 P	04	21.80	-2.2	
PPD	39.96	151 eP	05	44.10	0.6	
PDCR	40.53	128 (P)	05	49.00	0.7	
VAO	42.95	147 eP	06	08.80	0.7	
FFC	47.99	336 eP	06	49.00	1.2	
	0.7s	9.00nm			4.9mb	
YKA	58.09	338 eP	08	02.20	-0.3	
	0.6s	1.50nm			4.2mb	
INK	67.79	339 eP	09	08.00	1.3	
NB2	74.58	30 P	09	51.40	3.8X	
	0.8s	2.10nm			4.2mb	
KHC	76.38	42 eP	10	02.20	4.1X	
S.D. = 1.3 on 18 of 20 obs.						

? MAR 20, 1991 01h 15m 46.34± 3.68s
7.808 S ±53.6km 158.260 E ±14.9km
DEPTH = 33.0km (normal)
4.6mb (3 obs.)
SOLOMON ISLANDS (193)

SVO	2.04	131 eP	16	19.00	0.0	
		eS	16	44.00		
HNR	2.32	134 iP	16	23.00	0.0	
		iS	16	50.00		
RMO	20.66	205 eP	20	26.00	0.0	
WB2	26.11	240 iPc	21	19.60	0.3	
	0.7s	14.30nm			4.7mb	
		iScP	27	34.00		
WRA	26.12	240 P	21	19.00	-0.3	
	0.7s	14.30nm			4.7mb	
ASPA	28.18	233 eP	21	38.10	0.0	
	0.5s	2.70nm			4.2mb	
S.D. = 0.3 on 6 of 6 obs.						

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* MAR 20, 1991 01h 55m 10.34± 0.85s
21.342 S ± 8.5km 68.638 W ±12.5km
DEPTH = 144.5 ± 12.4 km
4.6mb (2 obs.)
CHILE-BOLIVIA BORDER REGION (124)

ANT	2.87	215 iPd	55	56.20	-0.1	
SLA	4.44	140 iPc	56	18.50	1.3	
CNCB	4.55	8 iPc	56	21.00	1.9	
CCH	4.59	31 P	56	20.00	0.6	
LPB	4.81	6 Pd	56	22.00	-0.4	
	1.0s	70.00nm				
ZOBO	5.07	6 P	56	26.00	0.0	
ARE	5.55	330 eP	56	30.00	-2.3	
		iS	57	33.50		
SIV	8.93	55 iPc	57	13.20	-4.2X	
ITB1	13.53	107 eP	58	23.00	5.4X	
ITB	13.72	107 eP	58	25.20	5.2X	
PPD	16.12	96 eP	58	49.10	-1.0	
		e	58	50.80		
		e	58	58.30		
VAO	20.14	99 eP	59	33.50	-1.7	
		e	59	35.50		
BMA	22.73	98 eP	00	00.70	-0.1	
SOB1	29.30	70 eP	01	01.10	-0.3	
KIC	68.42	74 P	05	59.10	0.2	
	0.6s	6.50nm			4.6mb	
YKA	91.12	340 eP	08	01.20	2.0	
	0.6s	2.20nm			4.5mb	
S.D. = 1.5 on 13 of 16 obs.						

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* MAR 20, 1991 01h 55m 48.42± 1.42s
35.458 N ±17.7km 27.564 E ± 9.2km

DEPTH = 33.0km (normal)
DODECANESE ISLANDS (369)

NPS	1.61	264	ePn	56 15.20	0.3
			eSn	56 39.40	
YER	1.77	19	iPn	56 17.50	0.2
CIN	2.18	11	eP	56 23.00	0.0
ELL	2.29	55	iPn	56 24.90	0.1
BCK	3.15	50	iPn	56 36.50	-0.5
KHL	3.26	28	ePn	56 38.80	0.3
VLI	3.95	290	ePn	56 47.80	-0.5

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

MAR 20, 1991 01h 57m 28.28± 0.59s
39.240 N ± 5.5km 20.487 E ± 4.3km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
MD 3.2 (THE).

IGT	0.32	338	ePc	57 34.18	-0.7
KEK	0.71	312	ePb	57 41.50	-0.8
LSK	0.91	5	ePg	57 42.20	-3.6X
VLS	1.06	176	ePb	57 48.60	0.3
TPE	1.12	341	ePn	57 48.50	-0.7
KZN	1.45	42	ePb	57 45.00	-9.7X
FNA	1.69	24	ePc	57 58.20	0.2
LIT	1.77	60	ePd	57 58.50	-0.7
OHR	1.88	7	ePn	58 02.20	1.4
TIR	2.16	347	ePn	58 06.20	1.5
LCI	2.24	300	P	58 04.50	-1.4
			eSn	58 46.00	
GRG	2.26	40	ePc	58 06.62	0.4
			eS	58 42.50	
PHP	2.45	359	ePn	58 08.50	-0.3
LACI	2.47	346	ePn	58 09.00	-0.1
PAIG	2.56	73	ePd	58 09.38	-1.1
VAY	2.62	37	ePn	58 12.30	1.0
KNT	2.66	43	ePc	58 12.26	0.3
SOH	2.71	53	ePc	58 12.20	-0.5
SKO	2.82	15	ePn	58 14.00	-0.3
BRT	3.00	304	P	58 17.00	0.2
SRS	3.03	51	ePc	58 17.10	0.0
ORI	3.22	286	P	58 28.00	8.1X
TDS	3.24	279	P	58 24.00	3.8X
MGR	3.91	285	P	58 40.50	10.8X
SGO	4.19	290	P	58 35.00	1.3

S.D. = 0.9 on 20 of 25 obs.

MAR 20, 1991 04h 45m 37.67± 0.55s
39.248 N ± 5.5km 20.567 E ± 4.1km
DEPTH = 10.0km (geophysicist)
3.5mb (1 obs.)
GREECE-ALBANIA BORDER REGION (392)
MD 3.4 (ATH), 3.2 (THE).

IGT	0.34	327	ePd	45 43.38	-1.3
KEK	0.75	308	ePb	45 52.50	0.1
LSK	0.90	2	ePg	45 53.80	-1.2
VLS	1.07	179	ePb	45 57.80	0.0
AGG	1.39	99	eP	46 03.00	-0.1
KZN	1.41	41	ePb	46 03.20	-0.2
FNA	1.65	22	eP	46 07.50	0.6
LIT	1.71	60	ePc	46 07.90	0.2
			eS	46 33.26	
OHR	1.87	5	iPn	46 11.50	1.5
			iSn	46 36.90	
			LR	46 49.80	
TIR	2.16	346	ePn	46 15.00	0.8
GRG	2.21	39	ePc	46 16.46	1.5
			eS	46 43.46	
LCI	2.29	299	P	46 16.30	0.3
PHP	2.44	358	iPnc	46 17.60	-0.5
LACI	2.47	345	ePn	46 20.40	1.8
PAIG	2.50	73	ePc	46 19.02	0.0
VAY	2.58	36	ePn	46 20.40	0.3
KNT	2.62	42	ePc	46 20.30	-0.4
SOH	2.65	53	eP	46 21.70	0.4
SKO	2.80	13	ePn	46 22.50	-0.8
			eSn	47 06.50	
SRS	2.98	50	ePd	46 26.62	0.8
BRT	3.05	303	P	46 27.70	0.9
TDS	3.30	278	P	46 31.00	0.6
SOI	3.72	253	P	46 35.00	-1.4
MGR	3.97	285	P	46 40.80	0.9
MLR	7.40	31	ePd	47 26.00	-2.4
VRI	8.03	32	ePd	47 37.00	0.0
HFS	21.35	351	eP	50 24.60	-2.3
	0.5s		1.00nm		3.5mb
	Z 16s		0.03um		2.8MszX
			LR	57 22.00	

S.D. = 1.1 on 27 of 27 obs.

& MAR 20, 1991 04h 47m 58.70s
40.370 N 124.837 W
DEPTH = 3.0km
NEAR COAST OF NORTHERN CALIF. (35)
<BRK>. ML 3.2 (BRK).

FHC	0.78	56	iPc	48 14.20	-0.1
			iS	48 25.00	
WDC	1.76	82	ePc	48 27.50	-2.9
			eS	48 46.30	
LBFM	2.44	65	eP	48 38.60	-1.7
MIN	2.47	90	eP	48 37.30	-3.4
			e(S)	49 04.50	
ORV	2.69	107	e(P)	48 38.60	-5.1
			e(S)	49 08.80	
SAO	4.47	142	eP	49 07.40	-1.6

6 obs. associated

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* MAR 20, 1991 04h 55m 11.30± 1.45s
9.122 S ±11.0km 123.698 E ±12.2km
DEPTH = 110.7 ± 18.4 km
4.8mb (5 obs.)
TIMOR (289)

KUPT	1.03	185	ePd	55 52.70	19.6X
			eS	56 05.50	
MKS	5.71	312	e(P)	56 36.50	1.4
MTN	8.18	118	eP	57 08.00	-0.9
KNA	8.24	144	eP	57 07.90	-1.8
	0.3s		25.00nm		5.4mb
			eS	58 33.00	
MBL	12.53	197	iPd	58 05.70	-1.2
	0.4s		22.00nm		5.1mb X
WB2	14.89	137	eP	58 33.70	-3.7X
	0.2s		21.60nm		5.1mb
NANU	15.49	209	eP	58 45.00	0.0
WARB	17.20	171	eP	59 07.80	1.6
	0.3s		4.00nm		4.1mb
			eS	02 07.00	
ASPA	17.45	147	iPc	59 10.30	1.1
	0.4s		8.30nm		4.3mb
			iS	02 14.20	
QIS	19.10	128	iPd	59 29.90	1.7
			eS	02 48.00	
GUN	51.90	316	P	04 11.18	-0.1
PKI	52.01	316	P	04 11.10	-0.9
	0.4s		8.00nm		5.0mb
KKN	52.23	316	P	04 12.66	-0.9
DMN	52.24	316	P	04 14.56	0.9
GKN	52.81	316	P	04 16.92	-0.8

S.D. = 1.4 on 13 of 15 obs.

& MAR 20, 1991 05h 01m 25.52s
59.972 N 152.687 W
DEPTH = 92.2km
SOUTHERN ALASKA (2)
<AEIC>.

RED	0.45	355	ePd	01 39.69	-0.8
			eS	01 50.75	
RSO	0.49	356	iPd	01 40.31	-0.6
			eS	01 51.94	
RS2	0.49	356	iPd	01 40.34	-0.6
			eS	01 51.95	
REF	0.52	359	iPd	01 40.48	-0.6
			eS	01 52.34	
RDN	0.55	356	iPd	01 40.63	-0.6
			eS	01 52.19	
NCT	0.60	349	ePd	01 40.96	-0.7
			eS	01 52.81	
HOM	0.61	120	ePc	01 41.33	-0.3
			eS	01 53.40	
RDT	0.62	13	iPd	01 41.00	-0.8
			eS	01 53.41	
NNL	0.70	84	iPc	01 42.77	0.3
AUE	0.71	210	ePd	01 41.74	-0.8
XLV	0.71	136	ePc	01 41.66	-0.9
			eS	01 54.87	
AUH	0.72	212	eP	01 42.36	-0.4
AUI	0.74	211	eP	01 42.05	-0.8
			S	01 53.95	
CNPM	0.86	121	iPc	01 43.38	-0.8
BRLK	0.93	102	eP	01 44.26	-0.7
			eS	01 58.74	
NKA	1.06	42	eP	01 47.46	1.2
MCNL	1.15	227	iPd	01 46.30	-1.2
			eS	02 01.79	
CDD	1.15	205	ePd	01 46.26	-1.2
CKL	1.24	8	iPd	01 48.15	-0.5
SPU	1.25	14	iPd	01 48.18	-0.6
			eS	02 05.76	
BGL	1.30	6	iPd	01 49.05	-0.4
CRP	1.33	11	ePd	01 49.34	-0.4
SLKM	1.34	65	ePc	01 49.40	-0.4
SYI	1.37	174	iPd	01 49.43	-0.7
NCG	1.46	10	iPd	01 51.01	-0.4
SEW	1.63	84	eP	01 52.26	-1.1
SUA	1.78	32	ePd	01 55.12	-0.4
PMS	2.00	49	ePc	01 57.75	-0.6
SKT	2.09	15	ePd	01 58.79	-0.8
PLRM	2.38	45	eP	02 02.13	-1.3
KNIM	2.50	79	ePc	02 02.58	-2.6
MTU	2.53	87	eP	02 04.13	-1.4
KNK	2.53	53	eP	02 04.06	-1.5
GHO	2.58	44	eP	02 04.85	-1.4
CUT	2.71	25	eP	02 07.30	-0.6

35 obs. associated

MAR 20, 1991 06h 23m 19.51± 1.31s
41.754 N ±10.2km 19.223 E ± 9.8km
DEPTH = 10.0km (geophysicist)
ALBANIA (391)
ML 2.5 (TTG).

ULC	0.21	6	iPgc	23 24.00	-0.1
			eSg	23 27.50	
BDV	0.61	331	iPgc	23 31.10	-0.6
			iSg	23 42.00	
TTG	0.68	2	ePg	23 31.50	-1.4
			eSg	23 41.50	
HCY	0.88	322	ePg	23 36.50	0.1
			eSg	23 50.00	
PVY	1.01	33	ePg	23 38.10	-0.6
			eSg	23 51.00	
NKY	1.07	351	ePg	23 39.20	-0.5
			eSg	23 56.00	
IVA	1.22	24	ePg	23 42.00	-0.3
			eSg	24 00.00	
BRY	1.25	337	ePg	23 43.50	0.6
			eSg	24 02.60	
OHR	1.35	118	ePn	23 43.30	-1.1
PLE	1.58	5	ePg	23 49.30	1.6
			eSg	24 10.00	
SKO	1.67	82	iPn	23 50.70	1.8
			e	24 08.50	
			i	24 11.50	
VAY	2.55	99	ePn	24 01.30	-0.3

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

? MAR 20, 1991 06h 55m 03.16± 1.06s
40.626 N ±10.1km 29.287 E ±12.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YLV	0.09	132	iPg	55 05.80	0.0
			iSg	55 07.80	
CTT	0.83	309	iPn	55 19.30	0.0
DST	1.14	207	iPn	55 24.50	0.0
DMK	1.66	316	ePn	55 32.40	0.0

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

? MAR 20, 1991 06h 55m 18.34± 4.58s
15.341 N ±40.6km 97.699 W ±21.8km
DEPTH = 33.0km (normal)
3.7mb (2 obs.)
NEAR COAST OF OAXACA, MEXICO (66)

OXX	1.97	28	iP	55 51.00	0.8
			iS	56 17.00	
III	3.46	331	iP	56 12.50	1.1
			iS	56 51.02	
IISM	3.64	5	iP	56 13.16	-0.6
			iS	56 59.44	
IIT	3.71	351	iP	56 16.00	1.1
			iS	56 59.50	
PPM	3.81	347	iP	56 15.00	-1.6
			(S)	57 03.00	
IIA	3.90	347	(P)	56 19.79	2.4X
			iS	57 04.24	

20d 06h

UNM	4.21	341	eP	56	20.00	-2.2
			iS	57	11.00	
CRX	4.46	335	(P)	56	28.00	2.2
			(S)	57	10.00	
LVVM	4.53	15	(P)	56	37.82	11.4X
			(S)	57	37.82	
MRX	5.47	323	(P)	56	28.86	-10.8X
ANMO	21.05	340	P	00	01.40	-0.7
	1.0s		4.50nm			3.8mb
YKA	48.59	350	eP	04	00.30	-0.1
	0.6s		0.30nm			3.5mb
	S.D. = 1.6		on	9 of	12 obs.	

? MAR 20, 1991 08h 27m 32.42± 2.23s
41.062 N ±18.2km 22.471 E ±15.4km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MD 1.8 (THE).

GRG	0.12	207	iP	27	35.40	0.0
			eS	27	37.80	
KNT	0.34	73	iPd	27	39.56	0.1
THE	0.57	139	ePd	27	44.00	0.0
SRS	0.85	86	ePd	27	48.60	-0.2
	S.D. = 0.3		on	4 of	4 obs.	

% MAR 20, 1991 10h 48m 56.43± 0.80s
39.218 N ± 7.4km 27.775 E ± 7.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

DST	0.77	59	ePg	49	11.50	0.1
IZM	0.91	206	iPn	49	14.00	0.1
KCT	1.12	23	ePn	49	18.00	0.5
EDC	1.13	3	iPn	49	17.50	-0.1
EZN	1.27	299	ePn	49	20.00	-0.1
YLV	1.82	42	iPn	49	27.60	-0.5
	S.D. = 0.4		on	6 of	6 obs.	

% MAR 20, 1991 11h 40m 53.15± 1.11s
15.898 N ±18.4km 93.854 W ±10.2km
DEPTH = 33.0km (normal)
NEAR COAST OF CHIAPAS, MEXICO (69)

SCX	1.44	54	iP	41	17.50	0.4
			iS	41	34.50	
TPX	1.83	122	iP	41	22.50	-0.3
			iS	41	46.50	
OXX	2.99	294	iP	41	41.00	1.4
			(S)	42	16.00	
IISM	4.56	313	eP	42	01.00	-0.6
			(S)	42	51.00	
PPM	5.54	305	iP	42	15.00	-0.9
			(S)	43	09.50	
III	5.91	295	(P)	42	04.00	-16.9X
	S.D. = 1.3		on	5 of	6 obs.	

MAR 20, 1991 12h 05m 12.27± 0.56s
41.065 N ± 4.9km 22.393 E ± 5.0km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MD 2.3 (THE). ML 1.8 (SKO).

GRG	0.11	177	iPc	05	15.38	0.2
			eS	05	16.10	
VAY	0.29	28	iPg	05	18.80	0.5
			iSg	05	23.30	
KNT	0.39	76	iP	05	20.56	0.2
THE	0.61	135	iP	05	23.48	-1.1
SRS	0.91	86	ePc	05	29.64	0.0
LIT	0.97	176	ePc	05	30.94	0.3
			iS	05	44.10	
SKO	1.15	322	ePg	05	33.00	-0.9
			eSg	05	52.00	
OHR	1.21	273	ePg	05	35.20	0.4
			eSg	05	52.00	
PAIG	1.50	139	ePc	05	39.58	0.4
			eS	05	59.14	
	S.D. = 0.7		on	9 of	9 obs.	

• MAR 20, 1991 12h 33m 34.47± 0.89s
61.629 N ±11.7km 149.800 W ± 6.6km
DEPTH = 33.0km (normal)
SOUTHERN ALASKA (2)

PMR	0.32	96	iPc	33	42.00	-0.5
TOA	1.78	73	iPc	34	04.20	0.7
SVW	2.85	262	ePc	34	18.70	0.0
TTA	3.18	297	ePc	34	23.50	0.1
FBA	3.41	15	ePd	34	26.20	-0.4
IMA	4.78	341	eP	34	46.10	0.1
	S.D. = 0.5		on	6 of	6 obs.	

MAR 20, 1991 12h 47m 25.44± 0.47s
41.237 N ± 8.5km 14.717 E ± 8.2km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

SGO	0.81	146	P	47	41.00	-0.2
			eSg	47	54.20	
SDI	0.82	305	P	47	42.10	0.7
AZI	1.22	308	P	47	48.70	0.6
MGR	1.27	150	P	47	48.30	-0.7
			eSg	48	08.00	
MNS	1.91	308	P	47	57.00	-1.3
BRT	1.91	100	P	47	58.00	-0.4
			eSn	48	22.00	
TDS	2.00	141	P	48	01.00	1.3
CIO	2.28	330	ePn	48	04.35	0.6
ASS	2.39	321	P	48	05.00	-0.2
ARV	2.61	330	P	48	08.50	0.0
CRE	3.15	320	P	48	15.50	-0.5
OHR	4.59	90	eP	48	36.70	0.1
	S.D. = 0.8		on	12 of	12 obs.	

MAR 20, 1991 13h 08m 57.89± 0.22s
5.791 S ± 3.8km 80.897 W ± 4.8km
DEPTH = 35.1km (4 depth phases)
5.3mb (34 obs.) 5.5Msz (20 obs.)
NEAR COAST OF NORTHERN PERU (109)
MD 5.2 (QUI). Mo=1.3•10••18 Nm
(PPT).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 22S, 54C
Centroid Location:
Origin Time 13:09: 2.5 0.3
Lat 5.94S 0.04 Lon 80.94W 0.04
Dep 18.4 2.3 Half-duration 3.6
Moment Tensor; Scale 10••17 Nm
Mrr= 4.47 0.21 Mtt= 0.73 0.17
Mff=-5.20 0.29 Mrt= 2.13 0.41
Mrf=-9.62 1.33 Mtf= 0.06 0.20
Principal Axes:
T Val= 10.72 Plg=57 Azm= 71
N 0.52 6 170
P -11.25 32 263
Best Double Couple:Mo=1.1•10••18
NP1:Strike= 13 Dip=14 Slip= 114
NP2: 168 77 84

TUNG	4.99	29	P	10	14.50	1.8
QUIL	5.37	22	eP	10	28.20	9.9X
VC1	5.69	26	eP	10	23.40	0.6
QTO	6.03	23	eP	10	28.20	0.7
OUR	6.06	23	eP	10	29.80	1.8
CAYA	6.52	27	eP	10	34.00	-0.5
COTA	6.60	23	eP	10	36.50	0.9
ARE	14.05	140	eP	12	18.00	1.0
			e	15	08.00	
UPA	14.74	5	ePc+	12	27.00	1.3
	Z 18s		21.99um			
BMG	14.97	32	eP	12	27.50	-1.4
ZOBO	16.28	131	Pc	12	46.00	-0.3
			eLR	18	48.00	
LPB	16.47	131	P	12	48.00	-0.5
	1.0s		660.00nm			5.7mb
	Z 15s		41.00um			5.0Msz
			S	16	02.00	
			LR	18	16.00	
CNCB	16.73	132	Pc	12	52.20	0.3
SDV	17.81	35	eP	13	04.30	-0.8
TOV	19.02	36	eP	13	18.30	-1.5
ANT	20.47	152	eP	13	36.00	0.6
			iS	17	21.20	
MORO	20.76	37	iP	13	37.00	-1.5
OLLA	21.07	42	iP	13	41.80	0.1
CAR	21.35	41	iPd	13	44.00	-0.5
			iS	17	40.00	
SIV	21.92	119	iPc	13	50.00	-0.3
TRN	25.37	50	eP	14	24.00	0.4
MGP	27.29	30	eP	14	49.00	7.7X
MCP	27.63	29	e(P)	14	46.00	1.5
SJG	27.85	31	eP	14	46.50	0.0
CPD	27.92	32	eP	14	47.00	0.0
FDF	28.27	44	eP	14	50.00	-0.3
			S	19	52.00	
ROCH	28.57	162	eP	14	53.00	-0.1
BBL	28.61	42	eP	14	52.00	-1.3
PEL	28.83	162	eP	14	53.00	-2.2
PAG	28.84	41	eP	14	56.00	0.5
MDZ	29.20	159	eP	14	48.90	-9.7X
LNV	29.37	164	eP	15	00.20	0.2
DEG	29.46	42	eP	14	59.70	-1.3
TCA	29.66	151	ePd	15	01.60	-1.1
ITB1	31.60	129	eP	15	19.80	0.0
ITB	31.81	129	eP	15	22.50	0.8
PPD	32.84	122	eP	15	30.40	-0.3
VAO	36.90	121	eP	16	04.30	-1.2
			e	16	13.50	31km
BMA	39.22	119	eP	16	24.40	-0.5
SOB1	39.79	97	eP	16	29.50	-0.2
RSCP	41.40	354	P	16	41.00	-1.7
	Z 22s		6.35um			5.4Msz
PDCR	41.74	102	eP	16	44.60	-1.1
BLA	42.78	1	P	16	52.00	-1.9
MEO	43.67	339	iPc	17	01.30	0.1
TUL	43.78	342	iPc	17	01.80	-0.2
	0.8s		57.10nm			5.4mb
	Z 21s		2.25um			5.1Msz
			LR	31	37.60	
FVM	44.44	349	P	17	06.30	-1.1
	0.7s		23.81nm			5.1mb
ALQ	47.14	331	eP	17	28.00	-1.0
	1.0s		24.25nm			5.1mb
	Z 18s		4.00um			5.4Msz
ANMO	47.14	331	P	17	28.30	-0.7
	1.0s		25.00nm			5.2mb
	Z 18s		4.12um			5.4Msz
GLA	50.29	322	eP	17	54.00	0.7
RSNY	50.43	6	P	17	51.70	-2.4
	Z 18s		4.26um			5.5Msz
PV09	51.27	332	P	17	59.40	-1.5
GAC	51.49	5	eP	18	02.00	-0.1
TPC	51.75	323	eP	18	09.00	4.6X
RVR	52.49	321	eP	18	11.00	1.1
SBB	53.23	322	eP	18	18.00	2.6
CBM	53.70	11	P	18	17.40	-1.1
CLC	53.84	323	eP	18	21.00	1.1
RSSD	53.89	339	P	18	19.90	-0.3
			e	18	26.00	20kmX
ISA	54.27	322	eP	18	25.00	2.0
BW06	54.90	334	P	18	26.60	-1.2
			pP	18	33.10	21kmX
TNP	55.18	325	P	18	29.40	-0.4
	1.0s		16.25nm			5.0mb
FRI	55.90	323	e(P)	18	38.20	3.5X
PRI	55.93	321	eP	18	36.40	1.2
LLA	56.41	322	ePc	18	38.30	-0.2
PRS	56.49	321	e(P)	18	41.10	2.0
LRM	58.58	335	iPc	18	53.30	-0.6
ORV	58.64	324	ePc	18	53.90	-0.2
MIN	59.21	325	eP	19	02.10	3.8X
WDC	59.91	324	e(P)	19	01.00	-1.9
SCH	61.53	9	eP	19	12.00	-1.7
SES	61.73	339	ePc	19	14.50	-0.6
	1.2s		58.00nm			5.6mb
NEW	62.50	334	P	19	19.20	-1.1
	1.3s		47.17nm			5.5mb
FFC	62.81	346	eP	19	22.00	-0.2
	0.7s		10.00nm			5.1mb
PNT	64.39	333	ePc	19	33.00	0.3
	0.7s		22.00nm			5.4mb
EDM	64.86	339	ePc	19	34.50	-1.2
MBO	66.50	72	iPc	19	48.70	2.0
LIC	76.66	82	P	20	48.30	0.6
	Z 20s		16.00um			6.3Msz
			S	30	42.00	
TIC	76.72	82	P	20	48.62	0.6
KIC	76.96	82	Pc	20	50.00	0.7
	0.6s		21.00nm			5.3mb
GDH	77.22	10	eP	20	46.00	-3.6X
			e	30	45.00	
TIO	79.07	57	iPd	21	03.50	2.7
			i	21	16.50	44km
AVE	79.51	55	iP	21	04.50	1.5
			i	21	26.50	82kmX
KOGH	81.36	83	eP	21	00.00	-13.2X
LEGH	81.38	83	eP	21	12.50	-0.7
SHGH	81.55	83	eP	21	09.00	-5.1X
TEGH	81.55	83	eP	21	14.50	0.4

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BALM    81.73 334 P      21 14.20   0.0
EJIF    81.81  52 eP     21 18.50   3.5X
INK     82.44 343 ePc    21 17.30  -0.4
         1.0s    32.00nm          5.3mb
MAL     82.70  52 iPc    21 21.50   1.9
                  iS     32 02.00
                  iPS    32 38.00
ECOG    83.48  52 eP     21 25.00   1.2
AFC     83.49  52 eP     21 25.00   1.1
TOL     83.67  49 iPd    21 25.50   0.9
                  ePP    24 45.00
                  eS     31 50.00
                  ePS    32 53.00
                  eSS    37 07.00
GUD     83.77  48 eP     21 26.60   1.4
TOA     83.84 335 ePc    21 26.20   1.1
         0.8s    22.60nm          5.4mb
SPA     84.25 180 iPc    21 27.70   0.5
         1.0s    70.00nm          5.8mb
      Z  20s     2.03um          5.5Msz
                  i      22 00.00 126kmX
AKU     84.43  22 iP     21 30.00   2.2
         1.0s    44.00nm          5.6mb
EVIA    84.58  50 eP     21 31.00   1.7
MBC     84.89 351 ePc    21 30.30   0.4
         1.3s    65.00nm          5.7mb
PMR     84.93 334 ePc    21 30.50   0.1
         0.6s     3.30nm          4.7mb
SLKM    85.02 332 P      21 30.00  -1.0
ETOR    85.36  48 eP     21 34.60   1.4
FBA     85.65 337 eP     21 34.30   0.3
RSO     86.19 332 P      21 36.70  -0.3
EBR     87.26  49 eP     21 44.00   1.7
EPF     87.54  47 eP     21 42.80  -0.9
         1.1s     9.75nm          5.0mb
SVW     87.73 332 ePc    21 43.90  -0.3
         0.8s    12.90nm          5.3mb
EKA     87.79  34 Pd     21 45.20   0.6
         1.3s    64.70nm          5.7mb
MFF     87.84  43 eP     21 44.30  -0.7
FLN     88.02  41 eP     21 45.50  -0.3
         1.3s    54.15nm          5.7mb
      Z  22s     2.03um          5.5Msz
LFF     88.15  45 eP     21 45.50  -1.0
LDF     88.23  41 eP     21 46.10  -0.7
         0.8s    13.45nm          5.3mb
IMA     88.36 337 ePc    21 47.50   0.2
         0.9s     6.60nm          4.9mb
TTA     88.41 334 ePc    21 48.60   1.1
LPO     88.42  45 eP     21 46.70  -1.1
RJF     88.76  44 eP     21 48.20  -1.2
         0.7s     8.80nm          5.2mb
      Z  22s     2.03um          5.5Msz
LSF     88.92  43 eP     21 49.00  -1.2
CAF     89.08  45 eP     21 49.90  -1.1
         1.2s    26.80nm          5.4mb
TCF     89.39  44 eP     21 51.10  -1.4
         1.0s    10.00nm          5.1mb
DAG     89.45  12 iPd    21 52.10   0.0
MAF     89.63  44 eP     21 52.50  -1.0
         1.3s    30.70nm          5.4mb
BGF     89.87  43 eP     21 53.50  -1.2
         1.2s    35.70nm          5.5mb
AVF     90.25  43 eP     21 55.00  -1.4
         0.9s    11.45nm          5.2mb
SSF     90.39  43 eP     21 55.60  -1.4
SMF     90.56  43 eP     21 56.60  -1.3
         1.2s    19.35nm          5.3mb
LOR     90.66  43 eP     21 56.90  -1.4
      Z  21s     1.95um          5.5Msz
DOU     91.51  40 P      22 03.00   0.9
ANM     92.81 335 eP     22 08.40   0.6
GRF     95.75  41 ePDIF  22 24.00   2.3
      Z  21s     1.00um          5.3Msz
                  ePP    26 08.00
                  e(S)   33 06.00
NB2     96.05  29 P      22 22.80   0.0
         1.1s     7.30nm          5.1mb
CLL     96.92  39 e(P)   22 29.00   2.1
KHC     97.27  41 P      22 30.20   1.6
      Z  20s     0.70um          5.1Msz
      N  20s     0.70um
      E  20s     0.50um
                  e      22 39.50  29km
HFS     97.28  30 eP     22 27.20  -1.1
         0.5s     0.90nm          4.6mb
      Z  19s     1.24um          5.4Msz

                  LR     57 12.00
BRG     97.51  40 eP     22 32.80   3.2X
         2.0s    40.00nm          5.6mb
                  e      22 44.20  36km
ZST     99.62  42 eP     22 49.60  10.4X
BCAO    99.80  87 iPd    22 42.00   1.2
         1.1s    10.00nm          5.3mb
BBTK   111.80  49 ePdiff23 40.00   6.2X
STK    124.85 224 ePKP   27 47.40  -9.0X
         0.9s     1.40nm
CTA    127.00 240 ePKP   28 01.00   0.1
QIS    132.37 235 ePKP   28 10.00  -1.1
CN2    135.62 333 ePKP   28 15.00  -1.6
      Z  22s     2.70um          5.9Msz
WB2    136.92 233 ePKP   28 12.40  -7.4X
         0.7s     1.30nm
                  e      28 18.70
                  i      28 27.00
                  e      30 13.60
WRA    136.93 233 PKP    28 15.00  -4.8X
         0.8s    12.90nm
WMQ    140.82  13 PKP    28 19.50  -6.8X
         8.0s   700.00nm
      Z  30s     1.10um          5.4MszX
                  PP     31 26.00
BJI    142.60 338 ePKP   28 23.00  -6.4X
      Z  24s     0.95um          5.5MszX
HHC    143.35 344 ePKP   28 28.50  -2.4
BTO    143.99 346 PKP    28 27.80  -4.1X
TIA    145.50 334 ePKP   28 31.00  -3.5X
      Z  21s     1.30um          5.7Msz
                  PP     31 58.00
TIY    145.98 341 iPKPc  28 35.00  -0.4
      Z  21s     1.40um          5.7Msz
      E  20s     1.70um
MBL    146.37 217 ePKP   28 37.00   0.7
         0.6s    36.00nm
GTA    146.53 359 iPKPc  28 36.80   0.5
      Z  22s     1.60um          5.8Msz
      N  18s     1.00um
                  PP     31 58.00
                  SS     50 56.00
SSE    147.40 323 PKPc   28 39.00   1.3
      Z  20s     1.00um          5.6Msz
NANU   147.56 209 ePKP   28 38.00  -0.2
NJ2    148.01 327 PKPc   28 41.00   2.4
      Z  20s     0.70um          5.4Msz
NDI    149.21  40 ePKP   28 41.00   0.3
AAI    149.46 253 ePKP   28 44.40   2.9X
LZH    149.54 352 ePKP   28 41.00  -0.2
      Z  20s     2.28um          6.0Msz
      E  18s     1.34um
                  pPKP   28 52.50
                  PKS    32 13.00
                  SS     51 30.00
XAN    150.45 343 PKPc   28 46.60   4.2X
POO    152.31  61 ePKP   28 44.50  -1.1
DAV    153.67 274 ePKP   28 56.00   8.4X
GKN    153.99  30 PKP    28 47.70  -0.2
CGP    154.47 277 ePKP   28 58.00   9.4X
KKN    154.48  29 PKP    28 48.80   0.2
GUN    154.67  28 PKP    28 50.00   1.0
PKI    154.73  29 PKP    28 49.80   0.7
LSA    155.06  17 PKP    28 50.40   0.8
BAG    156.46 298 ePKP   28 43.00  -8.5X
GBA    157.29  68 PKPd   28 51.90  -0.4
         1.5s    26.30nm
KMI    160.46 350 ePKP   28 54.00  -1.9
      Z  20s     1.00um
QIZ    163.19 322 ePKP   29 00.00   1.5
      N  23s     2.60um
      E  23s     2.20um
                  ePKPab 29 53.00
                  PP     33 40.00
                  eSKKS  40 19.00
CHG    167.06   1 ePKP   29 03.00   1.1
      S.D. = 1.2  on 146 of 171 obs.
-------------------------------------
   MAR 20, 1991  13h 35m 28.53± 0.65s
   42.544 N ± 7.1km   24.079 E ± 7.8km
   DEPTH =  10.0km  (geophysicist)
 BULGARIA                          (359)
     MD 3.0 (THE).

SRS     1.47 194 ePc    35 54.98  -0.1
KNT     1.64 213 ePc    35 57.58   0.1
VAY     1.66 223 iPn    35 58.00   0.2

GRG     2.02 219 ePd    36 02.34  -0.8
SKO     2.04 255 ePn    36 04.00   0.7
                  eSn    36 32.00
THE     2.08 204 ePc    36 02.98  -1.0
ALN     2.21 138 eP     36 07.80   2.1
PAIG    2.63 187 ePc    36 11.90   0.1
                  eS     36 51.78
DMK     2.83 104 eP     36 13.00  -1.6
MLR     3.24  24 eP     36 20.50   0.0
BZS     3.55 331 ePc    36 34.50   9.8X
VRI     3.83  29 iPd    36 29.00   0.2
      S.D. = 1.0  on  11 of  12 obs.
-------------------------------------
   MAR  20, 1991  14h 07m 16.92± 0.31s
   51.365 N ± 8.4km  178.525 W ± 3.4km
   DEPTH =  33.0km  (normal)
   5.1mb ( 41 obs.)  5.0Msz (  5 obs.)
 ANDREANOF ISLANDS, ALEUTIAN IS. (  7)

ADK     1.26  65 iPc    07 41.00   2.7
SMY     4.75 290 eP     08 32.30   4.3X
SDN    11.48  63 eP     10 01.90   0.5
ANM    14.91  22 ePc    10 52.20   5.4X
SVW    15.95  43 ePc    11 04.30   4.1X
         1.4s   115.10nm          4.8mb
TTA    16.72  38 ePc    11 13.90   3.9X
         0.6s     6.70nm          3.9mb X
RSO    16.97  48 eP     11 15.60   2.3
SLKM   18.17  49 eP     11 28.00   0.0
PMR    19.02  46 ePc    11 39.90   1.7
         0.5s     2.40nm          3.7mb X
IMA    19.37  31 iPc    11 43.50   1.0
         0.7s     5.50nm          3.9mb X
FBA    20.85  38 eP     11 58.20   0.3
BALM   22.05  50 eP     12 11.60   1.4
INK    27.37  35 ePd    13 00.50   0.0
MBC    33.56  22 ePc    13 55.60   0.4
         0.5s     9.00nm          4.9mb
MAT    33.95 261 iPc    14 00.00   0.9
         1.0s    27.00nm          5.1mb
MDJ    34.74 280 eP     14 05.00  -0.8
YKA    35.12  46 eP     14 07.50  -1.3
         0.4s     2.40nm          4.5mb
PNT    36.78  69 ePc    14 23.00   0.0
         0.6s    26.00nm          5.3mb
CN2    37.72 281 eP     14 30.00  -0.9
EDM    38.67  61 eP     14 38.50  -0.3
NEW    38.73  70 eP     14 39.80   0.4
         0.8s    50.00nm          5.4mb
LBFM   39.44  82 eP     14 47.00   1.4
SNY    39.95 280 Pc     14 50.60   1.1
         1.0s    40.00nm          5.1mb
SES    41.21  64 eP     15 00.00   0.2
LRM    42.72  70 eP     15 22.80  10.3X
KVN    43.13  82 eP     15 16.20   0.3
TNP    44.27  83 eP     15 25.50   0.4
         0.7s     5.00nm          4.4mb
BJI    45.55 282 eP     15 36.00   1.0
      Z  20s     1.49um          4.9Msz
BW06   46.14  72 eP     15 39.80  -0.2
         0.7s    21.44nm          5.2mb
MSU    47.12  79 eP     15 48.50   0.7
HHC    47.86 286 eP     15 54.00   0.6
      Z  21s     2.30um          5.1Msz
RSSD   48.61  68 eP     15 58.00  -1.3
         0.7s    13.84nm          5.1mb
BTO    48.94 287 P      16 03.00   1.2
      N  20s     1.00um
      E  20s     1.80um
                  sP     16 14.00
NJ2    48.98 272 Pc     16 00.70  -1.3
PV09   49.00  77 eP     16 02.00  -0.5
TIY    49.28 282 iPc    16 05.70   1.4
GOL    50.52  73 eP     16 14.30   0.3
GLD    50.58  73 eP     16 17.50   3.1X
WHN    52.83 274 Pd     16 32.00   0.8
                  pP     16 40.00  26kmX
ANMO   52.93  78 eP     16 31.70  -0.5
         1.5s    20.83nm          4.9mb
ALQ    52.93  78 eP     16 31.20  -1.0
         1.0s     5.00nm          4.4mb
                  e      16 40.60
FRB    52.95  32 eP     16 31.00  -0.7
XAN    53.83 281 Pc     16 38.20  -0.4
LZH    55.55 286 P      16 52.00   0.6
         1.5s    99.00nm          5.6mb
      Z  20s     1.17um          5.0Msz
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20d 14h

GTA 55.73 292 iPc 16 52.60 0.0
0.8s 30.00nm 5.4mb
Z 21s 1.50um 5.1Msz
E 19s 1.10um
TUL 58.71 70 eP 17 12.20 -1.3
0.6s 65.80nm 5.9mb
WMO 59.49 303 P 17 19.00 0.0
1.0s 14.00nm 5.0mb
SOD 60.08 349 eP 17 22.00 -0.5
FVM 60.40 65 eP 17 23.60 -1.5
0.6s 29.26nm 5.6mb
GYA 60.50 276 P 17 26.00 0.0
KMI 63.90 278 Pd 17 49.00 0.1
RSCP 64.84 64 eP 17 53.50 -1.2
GBTN 65.55 63 eP 17 58.60 -0.6
LSA 67.61 290 P 18 14.80 1.9
Z 20s 4.40um 5.7Msz
NB2 67.68 355 P 18 11.20 -1.2
0.9s 3.50nm 4.5mb
JSC 68.22 62 eP 18 15.90 -0.2
HFS 68.42 353 eP 18 15.00 -1.9
0.3s 1.70nm 4.6mb
Z 14s 0.09um 4.1MszX
SGS 69.44 62 eP 18 24.00 0.4
SHL 70.22 286 iP 18 28.50 -0.2
CHG 70.92 276 eP 18 32.80 0.0
GUN 72.02 292 Pc 18 41.20 1.4
0.4s 710.00nm 7.0mb X
KKN 72.46 293 Pc 18 43.44 1.3
0.5s 248.00nm 6.5mb X
PKI 72.55 292 Pc 18 43.74 0.9
0.6s 143.00nm 6.2mb X
GKN 72.67 293 Pc 18 44.42 1.1
0.5s 184.00nm 6.3mb X
DMN 72.70 293 Pc 18 44.88 1.2
SPC 78.55 348 eP 19 15.30 -1.1
ZST 79.92 349 eP 19 24.10 0.6
LDF 80.41 1 eP 19 25.40 -0.7
0.4s 6.85nm 5.0mb
GRR 80.61 2 eP 19 26.20 -1.0
0.5s 7.30nm 4.9mb
LPF 80.96 2 eP 19 28.80 -0.2
1.1s 26.85nm 5.2mb
KBA 81.41 352 iPc 19 32.40 0.7
0.5s 17.40nm 5.3mb
i 19 36.10
i 19 44.50
LOR 81.73 358 eP 19 32.80 -0.3
0.9s 8.20nm 4.8mb
SSF 81.94 359 eP 19 33.70 -0.5
0.9s 9.00nm 4.8mb
LBF 82.01 358 eP 19 33.80 -0.8
AVF 82.21 359 eP 19 35.00 -0.6
0.9s 7.35nm 4.7mb
SMF 82.35 358 eP 19 35.80 -0.5
0.7s 10.45nm 5.0mb
MFF 82.40 1 eP 19 36.40 -0.2
1.2s 23.80nm 5.1mb
BGF 82.45 359 eP 19 36.20 -0.7
0.8s 8.75nm 4.9mb
TCF 82.73 359 eP 19 37.70 -0.6
0.8s 5.35nm 4.7mb
LSF 82.77 360 eP 19 38.00 -0.5
0.8s 15.45nm 5.1mb
MAF 82.79 359 eP 19 38.40 -0.2
0.8s 9.40nm 4.9mb
RJF 83.71 360 eP 19 42.90 -0.5
LFF 84.08 1 eP 19 45.00 -0.2
0.6s 13.55nm 5.3mb
CAF 84.09 360 eP 19 45.10 -0.2
1.1s 20.75nm 5.2mb
LPO 84.33 0 eP 19 46.10 -0.4
0.8s 17.45nm 5.3mb
HYB 84.38 291 iP 19 47.50 0.3
1.0s 50.00nm 5.6mb
SBF 85.01 356 eP 19 49.40 -0.6
1.0s 44.00nm 5.6mb
FRF 85.35 356 eP 19 51.30 -0.3
1.0s 20.00nm 5.3mb
LMR 85.58 356 eP 19 52.50 -0.3
ASPA 85.59 223 iPd 19 53.20 0.2
0.5s 9.00nm 5.2mb
POO 86.21 295 iPc 19 55.30 -1.0
0.8s 35.82nm 5.7mb
GBA 88.04 289 Pd 20 03.50 -1.6
0.6s 11.90nm 5.4mb
TIC 121.95 8 PKP 26 09.20 -0.2
KIC 122.26 7 PKP 26 09.50 -0.5
LIC 122.37 8 PKP 26 09.90 -0.3
SLR 147.26 311 iPKPc 26 55.50 -0.5
0.9s 37.82nm
Z 20s 6.38um 6.4MszX
S.D. = 0.9 on 90 of 96 obs.

* MAR 20, 1991 15h 04m 41.18± 1.55s
24.638 N ± 9.5km 120.434 E ±16.4km
DEPTH = 33.0km (normol)
3.6mb (1 obs.)
TAIWAN (244)

ANP 1.13 61 eP 05 01.41 0.6
TWD 1.20 117 eP 05 01.70 0.1
eS 05 16.30
TWC 1.29 91 ePc 05 02.30 -0.6
TWF1 1.50 148 ePd 05 06.10 0.0
eS 05 25.00
TWG 1.90 162 eP 05 12.10 0.2
YKA 82.82 23 eP 17 02.90 -0.3
0.6s 0.30nm 3.6mb
S.D. = 0.6 on 6 of 6 obs.

* MAR 20, 1991 16h 29m 07.64± 0.87s
2.918 N ±14.5km 97.233 E ±11.4km
DEPTH = 33.0km (normol)
4.8mb (9 obs.)
NORTHERN SUMATERA (706)

IPM 4.13 66 ePd 30 10.60 0.6
0.4s 222.00nm
e 30 43.20
SNG 5.41 38 eP 30 27.30 -0.8
1.1s 116.46nm 5.3mb
NNT 9.92 14 eP 31 33.20 2.1X
CHTO 15.89 6 P 32 50.80 0.3
KOD 20.93 291 eP 34 06.10 15.7X
GBA 22.26 300 Pd 34 14.60 11.1X
0.7s 5.30nm
GUN 27.12 338 P 34 50.20 0.1
KKN 27.24 336 P 34 51.10 0.0
GKN 27.69 335 P 34 55.00 -0.1
ASPA 44.41 129 eP 37 17.20 -0.2
0.4s 4.30nm 4.6mb
ZST 81.25 318 e(P) 41 22.20 0.3
HFS 84.26 330 eP 41 36.70 -0.4
0.5s 2.40nm 4.6mb
LPG 88.28 315 eP 41 55.30 -2.3
0.6s 2.70nm 4.7mb
LPL 88.29 315 eP 41 54.80 -2.8
0.7s 2.20nm 4.6mb
LBF 90.11 317 eP 42 07.00 1.1
0.6s 2.70nm 4.7mb
LOR 90.17 317 eP 42 07.50 1.4
0.6s 5.40nm 5.0mb
SMF 90.23 317 eP 42 07.70 1.3
0.7s 5.50nm 5.0mb
AVF 90.56 317 eP 42 09.10 1.3
LPO 92.27 315 eP 42 18.10 2.3X
0.9s 11.45nm 5.3mb
S.D. = 1.3 on 15 of 19 obs.

MAR 20, 1991 17h 36m 12.83± 0.56s
7.333 S ± 4.4km 128.434 E ± 7.5km
DEPTH = 176.0 ± 6.4 km
5.0mb (19 obs.)
BANDA SEA (280)

AAI 3.63 356 ePd 37 11.00 1.3
MTN 6.09 154 iPd 37 41.20 -0.6
KNA 8.37 178 eP 38 10.40 -1.6
0.3s 140.00nm 5.9mb
eS 39 25.00
MBL 16.07 210 iPc 39 50.30 -0.1
0.3s 5.00nm 4.4mb
eS 42 38.00
QIS 17.02 142 iPd 40 01.10 -1.0
eS 42 56.00
ASPA 17.07 163 iPd 40 03.00 0.3
0.6s 393.80nm 6.0mb
iS 43 05.50
KKM 18.03 317 eP 40 18.00 4.5X
PMG 18.63 98 eP 40 18.00 -1.7
WARB 18.82 185 eP 40 22.10 0.4
0.3s 15.00nm 4.9mb
eS 43 48.00
NANU 19.59 218 eP 40 30.00 0.5
CTA 21.43 128 iPd 40 49.30 1.3
0.8s 55.97nm 5.1mb
FORR 23.40 181 eP 41 07.00 0.0
BAL 25.63 204 eP 41 27.50 -0.3
KLB 26.11 201 eP 41 33.00 0.8
NWAO 27.51 201 eP 41 41.00 -3.8X
ADE 29.08 162 eP 41 59.20 0.2
BRS 30.50 134 iPd 42 11.50 -0.1
COO 31.90 139 eP 42 24.00 0.3
BFD 32.36 159 eP 42 28.50 0.9
OZH 33.48 344 P 42 36.20 -1.1
0.6s 40.00nm 5.3mb
TOO 33.85 155 eP 42 42.70 2.2
CHG 38.99 312 iPc 43 24.90 1.1
1.0s 32.50nm 5.0mb
CHTO 38.99 312 P 43 24.80 1.0
GYA 39.68 329 P 43 30.20 0.7
WHN 40.01 341 iPd 43 34.00 2.0
0.8s 40.00nm 5.1mb
NJ2 40.22 347 Pc 43 34.80 1.2
1.0s 50.00nm 5.1mb
KMI 40.82 323 Pc 43 40.00 1.0
MAT 44.60 11 iPc 44 07.30 -1.8
1.1s 25.32nm 4.7mb
CD2 44.77 329 P 44 10.40 -0.3
0.6s 36.00nm 5.1mb
TIY 47.24 343 Pd 44 29.00 -1.0
0.7s 30.00nm 4.9mb
SHL 48.29 314 iP 44 37.50 -1.0
eS 51 14.50
BJI 48.48 347 eP 44 39.00 -0.4
1.0s 44.00nm 5.0mb
LZH 48.98 333 iPc 44 44.00 0.4
1.2s 100.00nm 5.3mb
pP 45 12.00 120kmX
HHC 50.39 343 eP 44 54.70 0.5
LSA 51.38 318 P 45 01.60 -0.7
GTA 53.53 333 iPc 45 17.80 0.2
1.0s 50.00nm 5.2mb
KOD 53.67 288 eP 45 19.10 -0.1
GUN 54.01 312 P 45 21.50 -0.1
PKI 54.17 312 P 45 22.30 -0.5
0.6s 17.00nm 5.0mb
KKN 54.39 312 P 45 24.00 -0.2
DMN 54.42 312 P 45 24.40 -0.1
GBA 54.74 292 Pc 45 24.60 -2.0
0.9s 6.90nm 4.4mb
GKN 54.98 312 P 45 27.80 -0.6
0.6s 32.00nm 5.3mb
HYB 55.07 297 eP 45 28.00 -1.0
1.0s 25.00nm 4.9mb
YKA 108.73 26 ePKP 54 21.80 -0.2
0.6s 0.80nm
FRB 122.38 9 ePKP 54 42.00 -5.9X
S.D. = 1.0 on 43 of 46 obs.

MAR 20, 1991 17h 43m 17.78± 0.35s
38.146 N ± 6.1km 73.533 E ± 8.4km
DEPTH = 120.0km (geophysicist)
4.8mb (11 obs.)
TAJIK-XINJIANG BORDER REGION (719)

NDI 9.93 161 iPc 45 40.50 1.9
0.4s 29.66nm 5.4mb
GKN 13.73 134 P 46 28.10 -0.6
KKN 14.26 133 P 46 35.60 0.0
DMN 14.30 134 P 46 35.80 -0.3
0.5s 32.00nm 4.8mb
PKI 14.50 133 P 46 38.60 -0.1
GUN 14.53 131 P 46 38.60 -0.4
POO 19.54 179 iPd 47 37.80 -0.6
0.8s 29.85nm 4.7mb
HYB 21.12 167 iP 47 55.00 0.6
LZH 24.21 85 eP 48 25.00 0.4
1.5s 17.00nm 4.3mb
GBA 24.69 171 Pd 48 28.50 -0.4
0.4s 11.40nm 4.7mb
KOD 28.02 172 eP 49 00.20 0.5
KAF 37.38 325 iP 50 21.10 1.1
NUR 37.71 322 eP 50 23.90 1.1
HFS 43.05 321 eP 51 06.50 -0.2
0.4s 10.50nm 4.9mb
NB2 44.31 322 P 51 17.00 0.0
0.6s 5.30nm 4.5mb
BCAO 60.12 250 iPd 53 13.20 -1.7
0.4s 5.00nm 4.9mb

MBC	65.59	3 iPd	53	50.00	-0.1
	0.6s	34.00nm			5.5mb
INK	71.95	10 iPd	54	29.10	-0.2
		pP	55	11.50	176kmX
FBA	72.32	17 P	54	31.40	-0.2
YKA	79.49	4 eP	55	11.30	-0.6
	0.6s	4.00nm			4.4mb
FFC	87.42	357 eP	55	52.00	-0.3
	0.9s	10.00nm			4.8mb

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

MAR 20, 1991 18h 04m 51.63± 0.32s
55.536 N ± 6.1km 158.161 W ± 4.3km
DEPTH = 40.4km (7 depth phases)
4.9mb (37 obs.) 4.0Msz (1 obs.)
ALASKA PENINSULA (12)
Felt (III) at Chignik and Sand Point.

SDN	1.35	263 P	05	15.50	1.3
RSO	5.71	28 P	06	17.00	0.6
SVW	5.75	12 P	06	18.00	1.3
SLKM	6.53	37 P	06	26.00	-1.7
TTA	7.50	8 P	06	41.90	0.6
PMR	7.69	34 P	06	43.00	-0.8
KLU	8.75	42 P	06	55.90	-2.7X
TOA	9.05	38 P	07	01.00	-1.7X
FBA	10.70	24 P	07	21.40	-3.8X
IMA	10.79	10 P	07	26.60	0.0
INK	17.09	32 eP	08	47.00	-1.7
YKA	23.09	55 eP	09	55.30	1.1
	0.8s	3.60nm			3.9mb
GMW	23.20	95 eP	10	04.50	9.1X
BMW	23.55	98 eP	10	05.50	6.6X
LON	24.19	96 eP	10	06.50	1.4
MBC	25.20	21 ePc	10	15.40	1.0
	0.8s	13.00nm			4.5mb
NEW	26.03	89 eP	10	27.30	4.8X
	1.0s	11.25nm			4.4mb
KVN	31.24	105 e(P)	11	10.00	0.4
		e	11	17.00	24kmX
BONR	31.92	107 e(P)	11	16.20	0.6
		e	11	24.00	27kmX
TNP	32.42	105 e(P)	11	27.00	7.1X
MSU	34.91	100 eP	11	46.50	5.0X
ANMO	40.67	98 eP	12	36.50	6.9X
	1.0s	15.00nm			4.7mb
ALO	40.67	98 eP	12	37.00	7.4X
	1.0s	3.50nm			4.1mb
DAG	45.48	12 iPd	13	08.20	0.3
	0.5s	30.28nm			5.5mb
TUL	46.02	88 e(P)	13	10.40	-2.3
MAT	46.29	273 eP	13	14.00	-0.8
	1.0s	22.00nm			5.1mb
CN2	48.37	290 Pc	13	30.00	-1.0
	1.0s	40.00nm			5.4mb
SCH	48.47	51 eP	13	30.00	-1.7
SNY	50.73	289 iPc	13	48.80	-0.3
	0.8s	52.00nm			5.6mb
BJI	55.93	292 eP	14	26.50	-1.1
	0.8s	9.00nm			4.9mb
SOD	57.36	358 iP	14	37.40	0.0
		i	14	49.80	44km
HHC	57.73	296 eP	14	40.00	-0.5
BTO	58.70	297 P	14	46.90	-0.4
TIY	59.62	293 eP	14	52.40	-1.3
KAF	62.64	358 iP	15	13.10	-0.5
	0.6s	14.40nm			5.3mb
NB2	63.47	6 P	15	18.90	-0.3
	0.8s	10.70nm			5.0mb
XAN	64.26	293 Pc	15	23.60	-1.1
NUR	64.28	358 iP	15	24.20	-0.2
HFS	64.50	5 eP	15	24.70	-1.1
	0.7s	14.30nm			5.1mb
GTA	64.63	303 Pc	15	26.60	-0.6
	1.0s	10.00nm			4.8mb
		sP	15	39.00	
UPP	64.91	2 iP	15	27.90	-0.5
LZH	65.27	298 Pc	15	30.70	-0.7
	1.5s	28.00nm			5.1mb
		pP	15	42.50	40km
WMO	66.46	314 P	15	39.50	0.7
EKA	67.62	15 Pd	15	46.40	0.6
	0.9s	8.00nm			4.8mb
GYA	71.42	290 P	16	09.40	-0.3
CLL	73.27	6 iP	16	20.70	0.7
	1.1s	12.00nm			4.8mb
		i	16	32.60	40km
BRG	73.76	5 iP	16	23.80	1.0
	0.9s	20.00nm			5.1mb
		i	16	35.70	40km
MOX	73.85	7 eP	16	24.00	0.6
		e	16	36.00	40km
FLN	74.40	15 eP	16	26.20	-0.4
LDF	74.62	15 eP	16	27.40	-0.5
GRR	74.71	15 eP	16	28.20	-0.2
LPF	75.03	16 eP	16	30.30	0.1
	0.8s	10.75nm			4.9mb
SPC	75.64	1 eP	16	35.20	1.3
CDF	75.71	10 eP	16	34.00	-0.2
HAU	76.01	11 eP	16	35.80	-0.1
	0.8s	5.35nm			4.6mb
BSF	76.23	10 eP	16	36.80	-0.4
LOR	76.46	12 eP	16	38.40	0.0
	0.8s	7.40nm			4.7mb
MFF	76.56	15 eP	16	39.10	0.2
	0.8s	14.80nm			5.0mb
ZST	76.56	3 eP	16	40.30	1.4
		e	16	51.60	37km
		e	28	54.80	
SSF	76.62	13 eP	16	39.40	0.1
	0.9s	12.30nm			4.9mb
LSA	76.66	303 Pd	16	41.40	1.1
LBF	76.75	12 eP	16	39.80	-0.3
	1.1s	11.00nm			4.8mb
AVF	76.86	13 eP	16	40.40	-0.2
	0.7s	5.50nm			4.7mb
BGF	77.03	13 eP	16	41.40	-0.1
	0.8s	12.75nm			5.0mb
SMF	77.07	13 eP	16	41.40	-0.4
	0.9s	10.65nm			4.9mb
LSF	77.15	14 eP	16	42.00	-0.2
	0.8s	20.80nm			5.2mb
TCF	77.21	14 eP	16	42.30	-0.3
	0.8s	9.40nm			4.9mb
MAF	77.32	14 eP	16	43.30	0.1
	0.9s	8.20nm			4.8mb
KBA	77.51	6 e(P)	16	44.00	-0.4
	1.0s	6.30nm			4.6mb
		i	16	46.20	7kmX
		i	16	57.90	
RJF	78.08	15 eP	16	47.10	-0.2
	0.9s	9.85nm			4.8mb
	Z 20s	0.08um			4.0Msz
LFF	78.32	15 eP	16	48.90	0.3
	0.8s	17.45nm			5.1mb
LPL	78.52	11 eP	16	50.80	0.8
CAF	78.52	14 eP	16	50.00	0.2
	0.8s	6.05nm			4.6mb
LPG	78.54	11 eP	16	51.20	1.0
LPO	78.64	15 eP	16	50.50	0.1
	1.0s	20.00nm			5.1mb
EPF	80.12	16 eP	16	58.10	-0.4
	0.9s	4.10nm			4.4mb
GUN	80.63	306 P	17	02.40	0.6
KKN	81.00	307 P	17	04.10	0.4
GKN	81.11	307 P	17	04.40	0.3
PKI	81.13	306 P	17	05.00	0.5
	0.8s	20.00nm			5.1mb
DMN	81.24	307 P	17	05.60	0.7
PGF	81.68	10 eP	17	07.00	0.2
CHG	81.75	291 eP	17	06.90	-0.5
SKO	82.86	0 iPKP	17	13.70	0.9
		i	17	26.40	43km
BBTK	84.54	352 eP	17	23.00	1.5

S.D. = 0.8 on 75 of 85 obs.

? MAR 20, 1991 18h 14m 57.63± 0.99s
42.696 N ± 7.6km 13.020 E ± 8.0km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

MNS	0.40	219 P	15	06.00	0.2
		eSg	15	11.50	
ALP	0.42	78 e(Pg)	15	05.94	-0.3
		eSg	15	12.25	
ASS	0.46	325 P	15	06.50	-0.5
		eSg	15	14.00	
CIO	0.51	10 e(Pg)	15	08.50	0.6
		eSg	15	15.16	

S.D. = 0.8 on 4 of 4 obs.

MAR 20, 1991 18h 27m 21.61± 0.59s
46.087 N ± 5.3km 14.354 E ± 5.6km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.6 (KBA), 2.5 (LJU). MD 2.4 (TRI). Felt (IV) at Voklo.

LJU	0.13	109 iPgd	27	24.10	-0.7
		eSg	27	27.40	
VOY	0.33	260 iPgc	27	28.10	-0.3
		eSg	27	34.20	
CEY	0.35	172 iPgd	27	29.40	0.5
		eSg	27	35.00	
TRI	0.56	228 ePg	27	32.30	-0.6
		iSg	27	42.40	
RIY	0.74	178 i(Pg)	27	35.90	-0.3
		iSg	27	47.80	
VBY	0.86	132 iPgd	27	38.40	0.3
FVI	1.20	295 P	27	43.20	-0.8
		eSg	28	01.10	
KBA	1.21	325 iPgd	27	42.30	-2.0
		i	27	44.70	
		iSn	27	57.70	
		iSg	28	00.40	
VVI	1.35	266 P	27	47.40	1.0
		eSg	28	06.00	
CTI	1.88	270 P	27	54.50	0.3
BHG	1.92	329 iPnd	27	56.30	1.6
WTTA	2.21	303 iPgd	28	00.00	1.0
		iSg	28	31.00	
KHC	3.09	351 ePn	28	11.50	0.1
		ePg	28	18.50	
		e	28	45.00	
		eSg	28	54.30	

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

% MAR 20, 1991 18h 50m 35.89± 1.27s
43.051 N ± 9.0km 13.331 E ±11.9km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

CIO	0.20	317 iPg	50	41.15	0.8
		iSg	50	44.86	
ALP	0.32	146 e(Pg)	50	42.14	-0.5
		eSg	50	47.44	
ASS	0.49	273 P	50	44.50	-1.4
		eSg	50	51.00	
ARV	0.53	328 P	50	46.50	-0.1
		eSg	50	55.50	
MNS	0.82	216 P	50	53.00	1.2
		eSg	51	02.00	

S.D. = 1.5 on 5 of 5 obs.

MAR 20, 1991 18h 56m 39.05± 0.67s
43.030 N ± 5.0km 13.251 E ± 7.2km
DEPTH = 12.9 ± 7.0 km
CENTRAL ITALY (381)
MD 2.6 (SSO).

CIO	0.18	335 iPg	56	43.64	0.2
		iSg	56	47.21	
ALP	0.35	136 iPg	56	45.06	-1.3
		iSg	56	49.64	
ASS	0.43	276 P	56	47.50	-0.5
		eSg	56	55.00	
ARV	0.52	334 Pd	56	49.30	-0.3
		eSg	56	58.20	
AOI	0.58	26 iPg	56	50.33	-0.2
		iSg	57	00.28	
AOU	0.68	171 P	56	52.50	0.1
MNS	0.77	213 P	56	52.50	-1.3
		eSg	57	04.50	
AZI	1.05	172 P	57	00.00	1.4
CRE	1.12	303 P	57	00.50	0.6
		eSg	57	16.40	
SDI	1.39	162 P	57	04.80	0.7

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

? MAR 20, 1991 19h 14m 50.05± 1.01s
42.997 N ± 9.7km 13.212 E ± 9.8km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

CIO	0.20	346 iPg	14	55.00	0.4
		iSg	14	59.25	
ALP	0.34	129 ePg	14	57.20	0.0
		iSg	15	02.00	
ASS	0.41	280 P	14	58.50	0.0
		eSg	15	05.50	

20d 19h

ARV 0.54 339 P 15 00.50 -0.4
eSg 15 09.00
S.D. = 0.6 on 4 of 4 obs.

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* MAR 20, 1991 19h 41m 46.89± 0.80s
36.567 N ±16.1km 142.358 E ±11.4km
DEPTH = 33.0km (normal)
4.2mb (5 obs.)
OFF EAST COAST OF HONSHU, JAPAN (229)

MAT 3.34 271 iPc 42 38.90 0.8
eS 43 21.00
LZH 30.90 281 eP 48 01.50 -1.2
1.5s 23.00nm 4.8mb
Z 17s 0.49um 4.2MszX
CHTO 41.92 257 P 49 36.20 0.1
GUN 47.96 277 P 50 26.30 1.5
PKI 48.48 276 P 50 28.60 -0.2
KKN 48.49 277 P 50 29.10 0.3
DMN 48.71 277 P 50 30.40 -0.1
GKN 48.91 277 P 50 32.00 0.1
INK 54.46 27 eP 51 13.10 0.2
ASPA 60.44 189 iPc 51 55.90 0.3
GBA 61.94 266 P 52 04.00 -2.0
0.2s 0.50nm 4.3mb
YKA 63.83 30 eP 52 18.00 0.2
0.7s 0.50nm 3.7mb
APO 74.44 336 eP 53 22.70 -0.4
0.5s 1.10nm 4.1mb
NB2 74.91 338 P 53 26.30 0.4
1.0s 3.10nm 4.3mb
S.D. = 0.9 on 14 of 14 obs.

% MAR 20, 1991 20h 17m 35.02± 0.44s
40.129 N ± 3.7km 29.270 E ± 4.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YLV 0.44 10 iPg 17 44.30 0.2
eSg 17 46.80
GBZT 0.67 11 ePg 17 48.40 0.0
iSg 18 03.00
KCT 0.71 280 iPg 17 48.10 -0.9
DST 0.72 224 iPg 17 49.20 0.0
iSg 17 58.30
HRT 0.76 24 iPg 17 49.70 -0.1
eSg 18 03.70
EYL 0.81 57 iPg 17 49.80 -0.9
iSg 18 02.50
GPA 0.81 78 iPg 17 50.40 -0.4
eSg 18 03.00
ISK 0.95 350 iPn 17 54.20 1.1
EDC 1.10 282 iPn 17 55.50 -0.1
CTT 1.20 328 iPn 17 57.10 -0.3
ALT 1.25 149 iPn 17 59.10 0.7
KHL 1.81 174 ePn 18 06.70 0.1
DMK 2.04 326 iPn 18 10.40 0.6
EZN 2.28 263 ePn 18 18.00 4.7X
IZM 2.33 223 ePn 18 20.00 6.0X
S.D. = 0.6 on 13 of 15 obs.

? MAR 20, 1991 20h 22m 25.36± 6.47s
47.628 N ±15.9km 2.851 W ±54.1km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.5 (LDG).

LPF 1.28 71 Pg 22 49.20 0.0
Sg 23 09.60
GRR 1.54 60 Pg 22 52.60 -0.3
Sg 23 16.00
FLN 1.95 54 Pg 22 59.00 0.2
Sg 23 26.30
LDF 2.07 61 Pg 23 02.60 2.1X
Sg 23 32.00
MFF 2.11 118 Pn 23 01.20 0.0
Pg 23 09.00
Sg 23 41.40
S.D. = 0.3 on 4 of 5 obs.

& MAR 20, 1991 20h 27m 04.40s
37.725 N 121.750 W
DEPTH = 14.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 3.3 (BRK).
Mo=2.5*10**14 Nm (BRK). Felt at
Hayward and Livermore.

MHC 0.39 167 iPd 27 12.30 -0.4
ARN 0.41 155 iP 27 12.60 -0.4
BKS 0.41 292 iP 27 12.90 -0.1
iS 27 19.20
BRK 0.43 290 iPc 27 12.60 -0.6
ZSP 0.46 299 iPc 27 13.10 -0.6
PCC 0.55 246 iPd 27 14.60 -0.7
GCC 0.72 196 iPc 27 17.10 -1.1
SAO 0.99 166 eP 27 21.20 -1.6
CMB 1.12 74 iPd 27 23.70 -1.4
iS 27 38.50
NWRM 1.16 309 eP 27 21.80 -3.8
FRI 1.78 114 iPc 27 38.40 3.4
PRI 1.80 151 eP 27 33.50 -1.9
ORV 1.84 6 eP 27 33.00 -2.8
BONR 2.74 84 eP 27 52.00 3.0
KVN 3.16 64 eP 27 53.50 -1.3
TNP 3.60 83 eP 28 09.00 7.9
16 obs. associated

? MAR 20, 1991 20h 46m 28.70± 6.88s
47.595 N ±16.5km 2.736 W ±58.7km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.5 (LDG).

LPF 1.22 68 Pg 46 51.20 -0.2
Sg 47 12.00
GRR 1.49 57 Pg 46 54.60 -0.9
Sg 47 18.00
FLN 1.91 51 Pg 47 01.20 -0.3
Sg 47 28.40
LDF 2.02 59 Pg 47 04.60 1.5
Sg 47 34.00
MFF 2.03 118 Pn 47 03.20 -0.1
Pg 47 11.00
Sg 47 43.40
S.D. = 1.3 on 5 of 5 obs.

& MAR 20, 1991 21h 01m 27.00s
49.712 N 66.483 W
DEPTH = 18.0km (geophysicist)
GASPE PENINSULA (448)
<OTT>. mbLg 3.7 (OTT). Felt at
Port-Cartier and Sept-Iles,
Quebec.

MNQ 1.69 300 Pd 01 55.97 0.1
KLN 2.87 178 P 02 12.52 -0.2
S 02 45.78
CBM 2.99 202 P 02 14.80 0.4
MIM 4.79 202 P 02 39.00 -1.0
EMM 5.02 188 P 02 40.00 -3.2X
SCH 5.12 358 P 02 42.00 -2.6X
0.3s 14.50nm 5.0mb X
BNH 6.07 214 P 02 56.00 -2.0
RSNY 7.53 230 P 03 21.00 2.4X
WVLY 11.08 234 P 04 08.00 0.5
9 obs. associated

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* MAR 20, 1991 21h 16m 46.57± 0.88s
3.264 N ±10.9km 95.622 E ± 8.0km
DEPTH = 33.0km (normal)
4.7mb (6 obs.)
OFF W COAST OF NORTHERN SUMATERA(705)

IPM 5.55 76 ePd 18 09.20 0.2
SNG 6.31 52 eP 18 20.00 0.2
NNT 10.12 23 eP 19 13.30 0.6
CHTO 15.79 12 P 20 27.00 -1.3
PKI 26.07 339 P 22 19.30 0.0
0.7s 12.00nm 4.6mb
DMN 26.21 338 P 22 21.00 0.4
GUN 26.21 340 P 22 20.90 0.2
0.6s 28.00nm 5.0mb
KKN 26.31 339 P 22 21.40 -0.1
0.8s 28.00nm 4.9mb
GKN 26.74 338 P 22 25.30 0.0
0.8s 47.00nm 5.2mb
WB2 44.48 123 iPc 24 56.50 -0.4
0.5s 1.30nm 4.0mb
HFS 83.16 330 eP 29 10.70 0.2
0.4s 0.50nm 4.0mb
S.D. = 0.5 on 11 of 11 obs.

MAR 20, 1991 21h 58m 06.91± 0.77s
42.856 N ± 5.7km 12.810 E ± 9.1km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ASS 0.24 333 P 58 11.70 -0.4
eSg 58 15.90
CIO 0.42 36 iPg 58 15.40 -0.1
MNS 0.48 192 P 58 15.00 -1.7
eSg 58 22.10
ALP 0.57 97 e(Pg) 58 17.94 -0.6
ARV 0.65 9 P 58 19.40 -0.5
eSg 58 30.40
AQU 0.67 139 P 58 19.00 -1.2
AZI 0.98 152 P 58 27.50 2.0
eSg 58 41.00
CRE 0.99 321 P 58 26.80 1.0
eSg 58 40.00
SDI 1.37 147 P 58 33.50 1.4
S.D. = 1.4 on 9 of 9 obs.

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* MAR 21, 1991 00h 07m 05.06± 0.85s
42.985 N ± 6.9km 13.226 E ± 8.2km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)
MD 1.5 (SSO).

CIO 0.22 344 iPg 07 10.36 0.5
iSg 07 14.05
ALP 0.33 128 e(Pg) 07 12.00 0.1
eSg 07 17.38
ASS 0.42 282 P 07 14.00 0.3
eSg 07 21.00
ARV 0.55 338 P 07 15.50 -0.8
eSg 07 24.50
MNS 0.72 214 P 07 19.00 -0.3
eSg 07 30.00
S.D. = 0.7 on 5 of 5 obs.

% MAR 21, 1991 00h 33m 33.24± 0.76s
40.662 N ± 6.6km 29.072 E ± 6.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YLV 0.25 112 iPg 33 38.60 0.0
iSg 33 40.00
ISK 0.40 359 iPg 33 41.40 -0.1
HRT 0.48 70 iPg 33 42.90 -0.1
eSg 33 50.40
CTT 0.69 315 iPg 33 45.90 -0.9
DST 1.11 198 ePn 33 54.00 -0.1
DMK 1.52 320 ePn 34 01.70 1.2
S.D. = 0.9 on 6 of 6 obs.

? MAR 21, 1991 01h 58m 30.57± 6.52s
47.605 N ±15.9km 2.848 W ±54.7km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.6 (LDG).

LPF 1.29 70 Pg 58 54.50 0.0
Sg 59 15.00
GRR 1.55 59 Pg 58 57.90 -0.3
Sg 59 20.80
FLN 1.96 53 Pg 59 04.40 0.2
Sg 59 31.00
LDF 2.08 61 Pg 59 08.00 2.1X
Sg 59 37.00
MFF 2.10 118 Pn 59 06.20 0.0
Pg 59 14.00
Sg 59 46.40
S.D. = 0.4 on 4 of 5 obs.

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* MAR 21, 1991 02h 03m 13.83± 1.04s
43.092 N ± 9.0km 22.624 E ± 9.9km
DEPTH = 5.0km (geophysicist)
YUGOSLAVIA (383)

VTS 0.66 139 iPgc 03 25.00 -2.0
iSg 03 33.00
PGB 1.26 115 eP 03 37.00 -0.7
iS 03 57.00
SKO 1.42 218 ePn 03 41.00 0.7
eSn 03 58.00
MMB 1.71 151 iPc 03 46.00 1.5
iS 04 09.00
VAY 1.77 181 ePn 03 55.60 10.3X
PLD 1.82 122 ePg 03 48.00 1.9
KNT 1.94 174 iPc 03 47.00 -0.8

		iS	04 15.00		
PVL	1.99	85 eP	03 48.00	-0.4	
RZN	2.09	131 eP	03 52.00	1.9	
SRS	2.10	160 iPc	03 49.70	-0.4	
SOH	2.33	166 iPc	03 52.50	-1.0	
OHR	2.40	215 ePn	04 01.30	6.8X	
KDZ	2.52	124 iP	03 59.00	2.9X	
BZS	2.63	344 ePc	03 57.00	-0.6	
MLR	3.38	44 eP	04 21.00	12.5X	

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

• MAR 21, 1991 03h 11m 10.92± 0.80s
42.937 N ± 6.2km 12.839 E ± 7.7km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)
MD 2.1 (SSO).

ASS	0.19	316 P	11 15.00	-0.1	
		eSg	11 18.10		
CIO	0.34	41 iPg	11 18.10	0.1	
		iSg	11 22.75		
ALP	0.56	106 e(Pg)	11 22.32	-0.2	
		eSg	11 31.31		
MNS	0.56	192 P	11 22.50	0.1	
		eSg	11 30.50		
ARV	0.57	8 P	11 22.50	0.1	
		eSg	11 31.00		

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

• MAR 21, 1991 03h 28m 37.92± 0.87s
24.134 S ±11.6km 66.710 W ±10.0km
DEPTH = 214.5 ± 10.4 km
3.9mb (1 obs.)
SALTA PROVINCE, ARGENTINA (129)

SLA	1.26	118 iPd	29 12.20	0.7	
ANT	3.42	276 iPc	29 32.60	-1.1	
		iS	30 12.20		
CNCB	7.38	350 P	30 25.20	0.7	
		S	31 50.00		
LPB	7.67	350 eP	30 29.00	0.8	
ZOBO	7.94	350 P	30 32.00	0.2	
SIV	9.68	34 P	30 52.00	-1.8	
PPD	14.33	85 eP	31 52.60	0.1	
		e	31 56.10		
VAO	18.14	90 eP	32 36.20	-0.6	
		e	32 37.40		
		e	32 40.80		
BMA	20.75	91 eP	33 03.70	0.5	
YKA	94.34	340 eP	41 34.00	0.5	
	0.6s	0.50nm		3.9mb	

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

& MAR 21, 1991 03h 31m 44.84s
57.421 N 143.064 W
DEPTH = 10.0km (geophysicist)
4.0mb (2 obs.)
GULF OF ALASKA (15)
<AEIC>.

MID	2.65	321 eP	32 23.72	-4.6	
WRG	2.68	11 iP	32 23.38	-5.4	
		iS	32 53.11		
YKU	2.76	38 iP	32 25.04	-4.9	
		S	32 54.95		
HMT	2.99	349 eP	32 27.49	-5.7	
WAX	3.04	2 iP	32 28.15	-5.8	
		eS	33 02.49		
RAGM	3.09	345 eP	32 28.70	-5.9	
SGAM	3.28	341 eP	32 31.81	-5.5	
		eS	33 08.58		
TGL	3.35	2 iP	32 32.42	-5.9	
		iS	33 09.32		
CVA	3.43	337 eP	32 34.30	-5.0	
		eS	33 10.66		
HIN	3.48	331 eP	32 35.16	-4.9	
		eS	33 13.83		
MTU	3.51	319 eP	32 34.79	-5.8	
		eS	33 11.63		
LTI	3.62	318 eP	32 35.82	-6.3	
		S	33 16.01		
BALM	3.65	6 iP	32 36.72	-5.9	
		eS	33 17.13		
CTGM	3.66	13 eP	32 36.97	-5.9	
		eS	33 16.83		
KNIM	3.81	322 eP	32 38.00	-6.8	
		eS	33 19.88		
GLI	4.04	331 eP	32 43.07	-5.0	
GLB	4.05	355 iP	32 41.94	-6.3	
		eS	33 26.21		
VZW	4.07	335 eP	32 41.26	-7.2	
VLZ	4.08	337 eP	32 42.63	-5.9	
		eS	33 26.92		
SIT	4.22	92 eP	32 41.89	-8.7	
		eS	33 24.67		
SEW	4.28	312 eP	32 44.83	-6.6	
KLU	4.34	342 eP	32 45.93	-6.4	
BRLK	4.72	303 eP	32 52.44	-5.3	
CNPM	4.78	300 eP	32 52.80	-5.8	
TZL	4.79	347 eP	32 52.81	-5.9	
SLKM	4.83	313 eP	32 53.44	-5.8	
KNK	4.86	328 eP	32 54.79	-4.9	
TOA	4.95	343 eP	32 57.06	-4.0	
XLV	4.99	298 eP	32 55.92	-5.5	
NNL	5.03	305 eP	32 57.45	-4.6	
SYI	5.10	287 eP	32 56.98	-6.1	
PLRM	5.20	326 eP	33 00.16	-4.3	
SDG	5.27	347 eP	33 00.69	-4.9	
GHO	5.28	328 eP	33 00.35	-5.4	
SUA	5.64	319 eP	33 05.02	-5.8	
PAX	5.70	349 eP	33 05.04	-6.6	
RDT	5.77	307 eP	33 06.46	-6.1	
AUH	5.80	294 eP	33 08.70	-4.2	
CDD	5.80	290 eP	33 07.85	-5.1	
RED	5.86	305 eP	33 08.05	-5.8	
REF	5.86	306 eP	33 08.08	-5.9	
RSO	5.87	305 eP	33 08.32	-5.8	
RS2	5.87	305 eP	33 08.74	-5.4	
RDN	5.90	306 eP	33 08.36	-6.1	
SPU	5.95	313 eP	33 09.40	-5.7	
NCT	5.99	306 eP	33 09.56	-6.2	
CRP	6.04	313 eP	33 11.80	-4.7	
CKL	6.07	312 eP	33 10.85	-6.0	
NCG	6.12	315 eP	33 12.40	-5.2	
BGL	6.13	313 eP	33 12.02	-5.7	
CUT	6.17	327 eP	33 12.54	-5.6	
SKT	6.26	320 eP	33 13.77	-5.8	
INK	11.74	18 P	34 32.00	-3.1	
YKA	15.05	58 eP	35 19.20	0.3	
	0.6s	2.00nm		3.7mb	
MBC	20.75	16 eP	36 26.50	-1.2	
FFC	22.84	79 eP	36 45.00	-3.8	
	0.6s	7.00nm		4.4mb	

56 obs. associated

& MAR 21, 1991 04h 10m 59.39s
49.698 N 66.594 W
DEPTH = 18.0km (geophysicist)
4.0mb (1 obs.)
GASPE PENINSULA (448)
<OTT-P>. mbLg 3.9 (OTT). Felt at Port-Cartier and Sept-Iles, Quebec.

MNQ	1.63	302 P	11 27.53	0.1	
KLN	2.86	177 P	11 44.03	-1.0	
		S	12 17.83		
CBM	2.95	201 P	11 46.00	-0.2	
DAO	3.53	242 P	12 02.08	7.6	
GGN	4.58	182 P	12 07.68	-1.8	
		S	12 59.76		
MIM	4.76	201 P	12 10.50	-1.4	
EMM	5.00	187 P	12 16.00	0.7	
DPO	5.12	236 P	12 15.30	-1.7	
SCH	5.13	359 P	12 13.50	-3.6	
	0.3s	23.40nm		5.2mb X	
SBO	5.63	222 P	12 22.67	-1.6	
		S	13 27.75		
BNH	6.02	214 P	12 28.00	-1.6	
TRO	6.38	240 P	12 31.38	-3.4	
		S	13 43.13		
GRO	6.93	247 P	12 39.46	-3.0	
		S	13 54.93		
JAO	7.00	309 P	12 40.21	-3.2	
		S	13 55.38		
RSNY	7.47	229 eP	12 52.50	2.4	
WBO	7.54	235 P	12 47.96	-3.0	
		S	14 10.84		
EEO	8.88	255 P	13 04.00	-5.7	
		S	14 42.53		
FRB	14.13	356 P	14 12.00	-8.4	
	0.5s	1.60nm		4.0mb	

18 obs. associated

MAR 21, 1991 04h 55m 55.58± 0.56s
42.824 N ± 4.1km 12.817 E ± 5.9km
DEPTH = 5.0km (geophysicist)
CENTRAL ITALY (381)

ASS	0.27	335 P	56 00.90	-0.2	
		eSg	56 05.10		
CIO	0.44	33 iPg	56 04.66	0.2	
MNS	0.45	193 P	56 04.20	-0.4	
		eSg	56 11.20		
ALP	0.56	94 ePgc	56 07.02	0.2	
AQU	0.64	137 P	56 08.20	-0.2	
		eSg	56 17.60		
ARV	0.68	8 P	56 08.50	-0.7	
		eSg	56 19.80		
AZI	0.95	151 P	56 14.50	0.4	
CRE	1.02	322 P	56 16.70	1.2	
		eSg	56 30.00		
SFI	1.30	328 P	56 19.60	-0.5	
		eSg	56 38.50		
SDI	1.34	146 P	56 22.50	1.7X	

S.D. = 0.7 on 9 of 10 obs.

& MAR 21, 1991 05h 04m 45.12s
62.809 N 149.512 W
DEPTH = 78.6km
5.0mb (29 obs.)
CENTRAL ALASKA (1)
<AEIC>. Felt (V) at Anchorage; (IV) at Cantwell, Chickaloon, Skwentna and Trapper Creek; (III) at Chugiak, Palmer and Wasilla. Felt throughout much of central and south-central Alaska from Anchorage to Fairbanks.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 19S, 29C
Centroid Location:
Origin Time 05:04:53.3 0.6
Lat 63.01N 0.11 Lon 150.25W 0.16
Dep 82.5 5.3 Half-duration 1.5
Moment Tensor; Scale 10**16 Nm
Mrr=-0.33 0.36 Mtt=-1.04 0.70
Mff= 1.37 0.53 Mrt= 0.24 0.42
Mrf= 0.67 0.49 Mtf= 6.52 0.58
Principal Axes:

	Val=	Plg=	Azm=
T	6.86	5	310
N	-0.38	84	153
P	-6.48	2	40

Best Double Couple:Mo=6.7*10**16
NP1:Strike= 85 Dip=85 Slip= 2
NP2: 355 88 175

HUR	0.18	341 ePc	04 56.63	1.5	
CUT	0.54	221 iPd	04 59.09	-0.1	
RND	0.67	26 iPd	05 00.29	-0.4	
TRF	0.73	332 iP	05 01.43	0.0	
MCK	0.96	15 iPd	05 03.82	-0.1	
GHO	1.08	165 iPd	05 05.17	-0.2	
SML	1.15	151 ePd	05 06.32	0.1	
		eS	05 23.07		
PWA	1.18	189 iPd	05 06.53	0.0	
PLRM	1.23	172 iPd	05 07.04	-0.2	
PMR	1.23	172 iPd	05 07.50	0.2	
SKT	1.26	229 iPd	05 07.45	-0.1	
		iS	05 24.84		
BWN	1.37	1 iPd	05 08.82	-0.2	
SUA	1.47	204 iPd	05 10.67	0.2	
KNK	1.49	160 iPd	05 10.50	-0.1	
		eS	05 31.07		
PMS	1.57	181 iPd	05 11.51	-0.3	
TOA	1.71	113 iPc	05 14.50	0.9	
NEA	1.79	6 iPd	05 13.85	-0.8	
WRH	1.79	20 iPd	05 13.93	-0.7	
THY	1.81	69 ePc	05 15.42	0.4	
SDG	1.85	97 iPc	05 15.70	0.1	
PAX	1.86	83 ePc	05 15.56	-0.1	
NCG	1.88	223 iPd	05 15.73	-0.3	
		S	05 40.53		
CGLM	1.91	219 eP	05 17.21	0.8	
		S	05 42.12		
DDM	1.92	58 iPd	05 16.81	0.3	
HDA	1.97	34 iPd	05 16.45	-0.7	
CRP	1.99	220 iPd	05 17.36	-0.2	
CCB	2.00	22 iPd	05 16.54	-0.9	
SPU	2.03	217 iPd	05 17.56	-0.4	

21d 05h

TZL	2.05	110	ePc	05	18.47	0.2	LBFM	27.00	130	e(P)	10	23.00	1.7	XAN	65.27	296	P	15	16.60	-3.7
BGL	2.06	222	ePd	05	18.42	0.0	WDC	27.45	131	eP	10	25.30	0.1	CLL	65.39	12	eP	15	18.00	-2.7
CKL	2.10	221	iPd	05	18.67	-0.3	MIN	27.99	130	eP	10	29.90	-0.3				e	16	13.00	238kmX
RDS	2.11	16	iPd	05	18.45	-0.7	KVN	30.39	127	eP	10	51.70	0.0	LZH	65.53	301	Pc	15	20.00	-2.0
KLU	2.14	126	iPc	05	18.31	-1.2				epP	11	10.00	78kmX		1.5s	100.00nm			5.5mb	
			eS	05	47.18		CMB	30.47	131	P	11	00.00	7.8				sP	15	51.00	
NKA	2.23	202	ePd	05	21.78	1.1		1.0s	11.67nm			4.6mb		MOX	65.91	13	eP	15	28.00	3.9
MDM	2.23	14	iPd	05	20.09	-0.6	BW06	30.65	112	eP	10	53.50	-0.5	BRG	65.91	11	eP	15	26.40	2.3
FBA	2.23	19	iPd	05	20.60	-0.1		0.9s	31.78nm			5.0mb					e	16	00.30	140kmX
VZW	2.25	140	iPc	05	19.57	-1.4				epP	11	12.00	79kmX	WHN	66.00	290	eP	15	23.00	-1.9
GLI	2.25	148	iPc	05	19.71	-1.3	BONR	31.28	128	eP	10	59.80	0.1	PRU	66.84	11	ePKP	15	33.50	3.5
VLZ	2.26	137	iPc	05	19.50	-1.5				epP	11	18.20	78kmX				e	15	39.00	18kmX
SLKM	2.33	189	ePd	05	20.93	-1.2	TNP	31.57	126	eP	11	01.40	-0.7	KHC	67.60	12	PKP	15	33.00	-1.9
GLM	2.38	22	iPd	05	21.95	-0.9		0.8s	7.35nm			4.5mb			Z 20s		2.50um			5.4Msz
DOT	2.61	69	ePd	05	25.24	-0.7				epP	11	20.00	79kmX		N 20s		1.00um			
KNIM	2.61	160	ePd	05	24.10	-1.8	RSSD	31.98	104	eP	11	05.00	-0.6		E 16s		1.50um			
RDT	2.63	213	iPd	05	25.61	-0.7		1.2s	43.73nm			5.1mb					e	15	37.00	13kmX
SEW	2.72	179	ePd	05	25.60	-1.7				epP	11	22.70	75kmX				e	15	51.00	
RDN	2.78	215	iPd	05	27.61	-0.7				i	11	32.40		SPC	68.05	7	eP	15	33.50	-4.4
REF	2.78	215	iPd	05	28.02	-0.5				ePP	12	06.10		LOR	68.24	19	eP	15	36.40	-2.4
NCT	2.78	217	iPd	05	27.93	-0.5	MSU	33.14	119	eP	11	15.80	0.1		0.5s	3.30nm			4.5mb	
HIN	2.82	148	iPc	05	27.32	-1.5				epP	11	34.20	78kmX		Z 20s	0.08um			3.9Msz	
RS2	2.82	215	iPd	05	28.51	-0.5	ISA	33.27	130	eP	11	14.00	-2.7	SSF	68.39	19	eP	15	37.50	-2.2
RSO	2.82	215	iPd	05	28.52	-0.5				e	11	35.00	91kmX		0.7s	4.95nm			4.5mb	
RED	2.86	214	iPd	05	28.84	-0.6	FRB	34.14	51	ePd	11	22.40	-1.4	LBF	68.53	19	eP	15	37.90	-2.8
LTI	2.89	163	ePd	05	27.79	-2.0	SBB	34.38	130	eP	11	45.00	18.7		0.5s	2.90nm			4.5mb	
CVA	2.89	140	ePc	05	28.43	-1.4	PV09	34.39	116	eP	11	26.00	-0.6	AVF	68.63	20	eP	15	38.60	-2.6
NNL	2.91	198	ePd	05	30.21	0.2				ipP	11	44.80	79kmX	ZST	68.83	10	e(P)	15	45.90	3.5
MTU	2.97	162	eP	05	28.90	-2.0				esP	11	54.40					e	16	03.30	64kmX
TTA	2.98	275	iPc	05	31.00	-0.1	MWC	34.72	131	eP	11	14.00	-15.3	LSF	68.86	21	eP	15	40.00	-2.7
GLB	3.01	115	iPc	05	30.26	-1.2	GOL	34.97	110	eP	11	31.20	-0.3		0.5s	3.65nm			4.6mb	
TMW	3.01	77	eP	05	31.06	-0.4		0.9s	14.20nm			4.9mb		SRO	69.30	9	eP	15	55.20	9.9
SGAM	3.09	137	iPc	05	30.60	-2.0				epP	11	49.50	77kmX	KBA	69.61	12	e(P)	15	46.00	-1.4
BRLK	3.13	193	ePd	05	31.59	-1.5	GLD	34.99	110	eP	11	32.20	0.6		0.6s	7.90nm			4.8mb	
HOM	3.33	199	ePd	05	35.23	-0.6				ipP	11	50.40	76kmX				i	15	52.30	20kmX
SVW	3.35	242	iPd	05	36.00	-0.3				isP	11	59.20					i	15	53.70	
RAGM	3.35	134	iPc	05	34.48	-1.8	TPC	35.54	128	eP	11	34.00	-2.1				i	16	18.40	
CNPM	3.40	195	ePd	05	35.82	-1.1				e	11	54.00	83kmX	CD2	70.10	299	P	15	48.00	-2.5
HMT	3.53	132	iPc	05	36.50	-2.2	GDH	35.62	37	ePc	11	35.60	-0.8	CAF	70.24	21	eP	15	48.80	-2.3
XLV	3.53	199	iPd	05	37.98	-0.7		0.9s	35.13nm			5.3mb		MLR	71.99	3	eP	16	02.50	0.8
MID	3.73	154	ePd	05	41.40	0.0	DAG	37.32	17	eP	11	48.30	-2.2	GYA	72.83	294	P	16	04.40	-2.5
IMA	3.74	333	iPc	05	41.30	-0.4	ANMO	38.53	116	eP	12	01.30	-0.1	SKO	75.32	7	eP	16	28.80	7.9
TGL	3.78	120	ePc	05	39.93	-2.4		1.2s	117.19nm			5.7mb		LSA	76.00	309	eP	16	26.20	0.7
BALM	3.83	114	iPc	05	40.93	-2.0				ipP	12	19.90	77kmX	OHR	76.14	8	eP	16	22.00	-3.6
AUE	3.94	210	ePd	05	43.14	-1.2				isP	12	29.20		SHL	79.48	306	iP	16	41.60	-2.8
AUH	3.95	211	ePd	05	43.69	-0.9	ALQ	38.54	116	eP	12	01.20	-0.3	IFR	79.85	30	eP	16	45.00	-1.2
WAX	3.96	124	eP	05	42.40	-2.4		1.1s	24.05nm			5.0mb					e	16	55.00	32kmX
AUI	3.97	210	ePd	05	43.63	-1.2				epP	12	20.00	78kmX	TIO	81.83	32	iP	17	03.00	6.4
CTGM	4.29	112	iPc	05	47.82	-1.7	SCH	40.71	62	eP	12	18.00	-1.0	CHG	82.82	297	eP	16	59.50	-2.3
MCNL	4.33	215	ePd	05	48.28	-1.6	MEO	42.03	107	iPc	12	48.50	18.5	WB2	101.40	249	ePdiff	18	25.30	-3.3
CDD	4.38	209	ePd	05	49.06	-1.6	TUL	42.32	104	eP	12	49.50	17.2		0.8s	0.70nm			4.4mb	
SYI	4.44	200	ePd	05	49.85	-1.6		1.2s	62.20nm						179 obs. ossociated					
WRG	4.54	124	eP	05	50.93	-2.0	GAC	43.76	77	ePc	12	42.70	-1.2	---						
BCPM	5.54	117	ePd	06	04.04	-2.8		0.5s	4.00nm			4.5mb			MAR 21, 1991 05h 04m 53.52± 0.68s					
YKU	5.75	120	eP	06	08.70	-0.9				pP	13	11.00	124kmX		37.855 N ± 6.1km 27.704 E ± 8.1km					
PNL	5.81	118	eP	06	07.32	-3.2	CLE	44.31	86	iP	12	48.50	0.1		DEPTH = 10.0km (geophysicist)					
HQN	6.15	118	eP	06	11.39	-3.9	MDJ	47.65	287	Pd	13	12.50	-2.3		TURKEY					(366)
ANM	7.26	291	ePc	06	29.37	-1.2	KEV	47.70	2	eP	13	21.00	6.2							
INK	8.60	43	P	06	45.90	-3.0	CBN	48.85	85	eP	13	23.00	-1.0	CIN	0.40	130	iPgc	05	01.00	-0.6
	0.9s	66.20nm				5.4mb				e	13	43.00	81kmX				iSg	05	10.00	
BRW	8.98	345	ePd	06	52.60	-1.4	SOD	50.08	2	iP	13	31.30	-1.8	IZM	0.64	327	iPg	05	04.50	-2.0
SIT	9.15	123	iPd	06	53.90	-2.5	CN2	50.10	290	P	13	30.00	-3.6				eSg	05	13.00	
SDN	9.37	222	ePd	06	57.80	-1.6				sP	14	03.00		YER	0.85	147	iPg	05	09.00	-1.0
MBC	16.77	25	ePc	08	33.00	-2.8	JSC	50.29	91	eP	13	33.70	-1.4				iSg	05	21.00	
	1.0s	127.00nm				5.1mb				epP	13	53.20	78kmX	KHL	1.51	71	iPn	05	20.40	-0.3
ADK	18.13	245	ePd	08	51.60	-1.1	SNY	52.51	290	Pc	13	49.20	-2.6	ARG	1.67	168	eP	05	24.30	1.4
	0.9s	264.60nm				5.5mb				sP	14	19.70		PRK	1.79	321	eP	05	26.00	1.4
PGC	20.20	122	eP	09	15.00	-0.4	KAF	55.36	2	eP	14	11.10	-1.3	DST	1.89	22	ePn	05	26.50	0.3
MCW	20.42	121	eP	09	18.00	0.2	NB2	55.61	11	P	14	11.60	-2.7	ALT	2.24	57	ePn	05	32.00	0.7
EDM	21.13	100	eP	09	24.00	-1.0		1.0s	7.20nm			4.7mb		EZN	2.24	332	ePn	05	31.00	-0.2
PNT	21.21	116	eP	09	25.00	-0.8	HFS	56.71	10	eP	14	17.80	-4.4	EDC	2.49	3	ePn	05	34.50	-0.2
	1.0s	103.00nm				5.1mb		0.3s	1.50nm			4.6mb		YLV	3.00	25	ePn	05	42.50	0.4
GMW	21.36	123	eP	09	28.00	0.8	NUR	56.92	3	eP	14	21.00	-2.6	NPS	3.09	214	eP	06	03.10	19.9X
BMW	22.08	126	eP	09	34.00	-0.5				e	14	43.00	88kmX	EYL	3.31	34	ePn	05	50.20	3.7X
LON	22.39	123	eP	09	38.50	0.9	BJI	57.14	294	eP	14	22.50	-2.9	RDO	3.69	334	eP	05	51.90	0.1
NEW	23.07	114	ePc	09	44.20	0.1		1.3s	59.00nm			5.5mb			S.D. = 1.1 on 12 of 14 obs.					
	1.1s	151.23nm				5.3mb	UPP	57.26	8	eP	14	27.00	1.0	---						
			ipP	10	01.50	77kmX	HHC	58.35	298	eP	14	31.50	-2.6	&	MAR 21, 1991 05h 32m 35.72s					
			ePP	10	23.80		BTO	59.19	299	eP	14	37.00	-2.9		62.871 N 151.198 W					
VGB	23.82	123	eP	09	52.50	1.1	TIA	59.96	291	eP	14	42.70	-2.3		DEPTH = 111.0km					
SES	24.12	103	ePd	09	54.70	0.4	TIY	60.66	296	Pc	14	47.50	-2.4		CENTRAL ALASKA					(1)
	1.1s	79.00nm				5.1mb	NJ2	62.74	287	Pd	15	02.00	-1.8		<AEIC>.					
			pP	10	11.00	71kmX		1.0s	100.00nm			5.8mb								
FFC	25.39	86	ePd	10	04.90	-1.2	GTA	64.15	306	iP	15	10.60	-2.5	CUT	0.63	137	iPc	32	53.77	-0.1
	1.1s	44.00nm				4.8mb		1.0s	30.00nm			5.2mb					eS	33	08.03	
LRM	26.96	112	eP	10	20.60	-0.4	WMQ	64.36	318	P	15	12.00	-2.3	TRF	0.71	35	ePd	32	54.29	-0.5
			epP	10	38.60	78kmX		1.0s	100.00nm			5.7mb					eS	33	08.91	

HUR	0.72	81	eP	32	54.44	-0.2
			S	33	08.40	
SKT	0.91	190	iPc	32	56.06	-0.3
			iS	33	11.72	
RND	1.19	62	ePd	32	58.93	-0.5
			eS	33	16.39	
MCK	1.34	49	ePd	33	00.62	-0.5
PWA	1.37	153	eP	33	01.45	0.1
SUA	1.43	171	ePc	33	02.06	-0.2
			eS	33	22.63	
BWN	1.52	30	iPd	33	03.17	0.0
GHO	1.53	135	ePc	33	03.26	-0.2
			eS	33	24.88	
NCG	1.54	197	ePc	33	02.99	-0.6
PLRM	1.61	142	ePc	33	03.50	-0.7
			eS	33	25.68	
CRP	1.67	196	ePc	33	05.05	-0.2
			eS	33	27.61	
BGL	1.71	200	iPc	33	05.72	0.1
SPU	1.74	194	ePc	33	05.39	-0.6
			eS	33	28.62	
CKL	1.76	198	eP	33	05.77	-0.6
PMS	1.81	154	ePd	33	06.24	-0.5
			eS	33	29.73	
KNK	1.95	137	iPc	33	07.73	-0.9
			eS	33	33.63	
NEA	1.96	28	iPd	33	07.53	-1.1
WRH	2.12	39	ePd	33	09.78	-1.0
NKA	2.14	181	eP	33	11.25	0.3
CCB	2.33	39	ePd	33	12.42	-1.1
RDT	2.38	195	eP	33	13.68	-0.5
RDS	2.38	33	ePd	33	13.14	-1.1
HDA	2.44	49	eP	33	13.98	-1.0
TOA	2.46	106	eP	33	14.72	-0.5
MDM	2.47	31	iPd	33	14.27	-1.2
RDN	2.48	198	eP	33	14.87	-0.8
RSO	2.53	198	eP	33	16.80	0.4
PAX	2.62	85	ePc	33	17.07	-0.4
SDG	2.63	95	ePc	33	17.06	-0.5
GLM	2.71	37	iPd	33	17.53	-1.1
GLI	2.79	134	iPd	33	18.20	-1.4
KLU	2.84	117	ePc	33	18.44	-1.9
NNL	2.84	181	eP	33	21.71	1.4
VZW	2.85	128	eP	33	18.84	-1.6
SEW	2.90	162	eP	33	20.10	-1.0
KNIM	3.02	145	iPc	33	20.23	-2.5
BRLK	3.12	177	eP	33	23.47	-0.7
CNPM	3.36	180	eP	33	26.41	-0.9
AUE	3.68	198	eP	33	32.67	1.1
GLB	3.75	109	iPd	33	31.00	-1.7
CDD	4.13	198	eP	33	37.38	-0.4
SYI	4.32	188	ePc	33	39.50	-0.8

44 obs. associated

MAR 21, 1991 05h 53m 12.06± 0.17s
9.710 S ± 3.1km 79.774 W ± 4.4km
DEPTH = 24.7km (6 depth phases)
5.4mb (30 obs.) 5.9Msz (26 obs.)
OFF COAST OF NORTHERN PERU (108)
Mo=4.0•10••18 Nm (PPT).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 23S, 57C
Centroid Locotion:
Origin Time 05:53:17.1 0.3
Lat 9.78S 0.03 Lon 80.07W 0.04
Dep 15.0 FIX Half-duration 4.3
Moment Tensor; Scale 10••18 Nm
Mrr= 0.98 0.03 Mtt= 0.01 0.03
Mff=-0.99 0.05 Mrt= 0.51 0.05
Mrf=-1.51 0.06 Mtf= 0.35 0.03
Principol Axes:

	Val=	Plg=	Azm=
T	1.85	61	70
N	0.12	1	162
P	-1.96	29	252

Best Double Couple:Mo=1.9•10••18
NP1:Strike=344 Dip=16 Slip= 92
NP2: 161 74 89

TUNG	8.34	9	eP	55	15.30	0.5
QUIL	8.93	5	eP	55	30.60	7.5X
VC1	9.11	9	eP	55	25.10	-0.5
OTO	9.52	8	eP	55	30.60	-0.5
OUR	9.56	8	eP	55	31.00	-0.7
CAYA	9.89	10	eP	55	35.00	-1.3
COTA	10.08	8	eP	55	38.00	-1.0
ARE	10.49	131	eP	55	47.00	2.6
PSO	11.10	13	eP	55	51.50	-1.3
ZOBO	13.09	121	P	56	19.00	-0.7
	1.0s		102.50nm		5.9mb	
LPB	13.24	122	P	56	20.00	-1.5
			i	56	34.00	
			S	59	06.00	
			LR	01	00.00	
CNCB	13.47	123	P	56	22.00	-2.8X
			i	56	34.20	
CCH	15.28	121	P	56	47.00	-1.3
BOG	15.33	22	iPc	56	49.00	0.0
			iS	00	18.00	
FUQ	16.24	22	eP	56	57.50	-3.1X
ANT	16.54	148	eP	57	03.00	-1.1
			iS	00	06.80	
BMG	17.96	22	iPc	57	23.00	1.0
UPA	18.57	1	ePc+	57	29.50	0.1
Z	19s		35.07um			
SIV	19.26	111	P	57	33.20	-4.7X
SLA	20.20	139	ePc	57	48.00	-0.1
SDV	20.59	27	eP	57	52.00	-0.3
TOV	21.77	27	eP	58	04.70	0.6
CAR	23.81	33	iPd	58	26.00	1.8
			iS	02	44.00	
RTLL	23.94	156	ePd	58	24.30	-1.0
RTCB	23.95	156	eP	58	24.90	-0.5
CFA	24.28	155	e(P)	58	28.00	-0.6
ROCH	24.52	162	eP	58	31.00	-0.1
PEL	24.78	162	eP	58	34.50	1.1
	1.3s		480.77nm		5.9mb	
LCCH	24.83	163	ePc	58	36.70	2.9X
SAN	25.07	162	eP	58	37.00	0.8
MDZ	25.17	158	i(P)	58	38.40	1.2
TACH	25.18	162	eP	58	40.50	3.3X
PCH	25.28	162	eP	58	37.00	-1.2
LNV	25.32	164	eP	58	40.50	2.0
TCA	25.73	149	ePc	58	41.00	-1.5
TRN	27.26	43	eP	58	59.00	2.5X
TPX	27.41	333	(P)	59	01.00	3.1X
PPD	29.93	118	eP	59	19.30	-1.3
			e	59	27.50	28km
MGP	30.26	25	eP	59	23.00	-0.5
FDF	30.51	37	eP	59	25.00	-0.8
			S	04	52.00	
SJG	30.74	26	eP	59	27.00	-0.8
CPD	30.78	26	eP	59	27.50	-0.6
BBL	30.94	36	eP	59	28.00	-1.5
LPR	31.04	26	eP	59	30.00	-0.4
PAG	31.22	35	eP	59	30.00	-2.1
OXX	31.46	328	(P)	59	41.00	6.7X
DEG	31.81	36	eP	59	34.00	-3.2X
LPA	32.05	145	eP+	59	38.00	-1.1
Z	18s		31.62um		6.0Msz	
			eS	04	50.00	
IISM	33.38	329	(P)	59	51.00	0.2
VAO	34.04	117	eP	59	54.80	-1.9
			e	59	56.70	
			e	00	03.20	
			epP	00	21.40	119kmX
PPM	34.10	327	(P)	00	01.00	3.3X
MRX	36.05	324	(P)	00	17.00	3.3X
BMA	36.45	115	iPc	00	16.20	-1.0
			e	00	24.50	28km
			e	01	15.10	
SOB1	38.34	93	eP	00	32.40	-0.8
			e	00	40.40	27km
PDCR	39.96	98	eP	00	44.50	-2.1
			e	00	49.00	15km
SGS	42.67	359	P	01	09.00	0.6
PRM	43.62	357	P	01	16.00	-0.2
JSC	43.77	358	P	01	16.20	-1.2
PWLA	45.13	350	P	01	27.00	-1.4
TKL	45.28	355	P	01	30.00	0.4
RSCP	45.39	353	P	01	30.10	-0.4
Z	20s		7.91um		5.6Msz	
OLY	46.31	347	P	01	37.00	-0.7
BLA	46.68	359	eP+	01	41.60	1.0
Z	22s		11.70um		5.8Msz	
CVL	47.46	1	P	01	47.20	0.5
NA2	47.62	2	P	01	47.00	-1.0
MEO	47.70	339	eP	01	48.70	-0.1
CBN	47.72	3	eP	01	48.00	-0.7
TUL	47.82	342	ePc-	01	48.50	-1.2
	1.0s		6.80nm		4.6mb	
Z	19s		3.80um		5.4Msz	
			LR	13	40.30	
FVM	48.48	349	ePc	01	53.30	-1.4
CLE	50.97	358	iP	02	14.90	1.2
ALQ	51.09	332	ePc	02	14.40	-0.6
	1.1s		54.75nm		5.4mb	
ANMO	51.09	332	P	02	14.50	-0.5
	1.0s		48.75nm		5.4mb	
Z	18s		7.22um		5.7Msz	
GLA	54.07	323	eP	02	40.00	2.9X
RSNY	54.21	5	P	02	36.00	-1.9
	1.7s		92.88nm		5.5mb	
Z	20s		12.43um		6.0Msz	
GLD	54.58	336	P	02	41.00	0.1
Z	18s		4.60um		5.6Msz	
GOL	54.60	336	P	02	41.00	-0.1
	1.0s		17.88nm		5.1mb	
Z	18s		3.03um		5.4Msz	
BAR	54.91	322	eP	02	35.00	-8.3X
GAC	55.29	4	eP	02	45.00	-0.7
PLM	55.49	322	P	02	49.00	1.3
TPC	55.53	323	eP	02	49.00	1.2
MSU	56.69	330	P	02	56.40	0.1
PAS	56.83	322	iPd	02	58.00	1.0
			ePP	05	43.00	
			ePPP	06	50.00	
			eS	10	56.00	
			eScS	12	40.00	
			eSS	14	40.00	
			eLg	17	34.00	
			eLR	20	08.00	
SBB	56.99	323	eP	03	01.00	2.7X
CBM	57.34	9	P	03	00.00	-0.4
CLC	57.63	324	eP	03	04.00	1.2
DAU	57.74	332	P	03	04.60	0.9
RSSD	57.92	340	P	03	03.00	-1.8
	1.2s		60.13nm		5.5mb	
Z	20s		4.52um		5.6Msz	
ABL	57.94	322	P	03	06.00	0.9
ISA	58.04	323	eP	03	06.00	0.4
DUG	58.31	331	P	03	08.00	0.5
BW06	58.90	335	P	03	10.00	-1.7
TNP	59.02	326	P	03	11.80	-0.8
	1.1s		25.97nm		5.3mb	
BONR	59.53	325	P	03	19.00	2.7X
FRI	59.68	323	eP	03	11.50	-5.4X
PRI	59.68	322	eP	03	13.20	-3.9X
KVN	60.19	326	P	03	20.00	-0.6
CMB	60.78	324	eP	03	25.50	1.0
ARN	61.00	323	P	03	26.00	0.1
ORV	62.45	325	eP	03	37.20	1.6
LRM	62.58	335	eP	03	36.30	-0.4
LBFM	63.87	326	P	03	44.00	-1.3
SCH	65.21	8	eP	03	52.00	-1.4
SES	65.76	339	eP	03	56.00	-1.1
	1.4s		225.00nm		6.1mb	
RUV	66.03	258	eP	03	58.00	-1.4
	1.2s		30.00nm		5.3mb	
VAH	66.27	258	eP	03	59.00	-1.9
	1.2s		25.00nm		5.2mb	
TPT	66.27	258	eP	03	59.00	-1.9
	1.2s		25.00nm		5.2mb	
NEW	66.48	334	ePd	04	02.00	0.2
	1.0s		37.50nm		5.5mb	
PMO	66.54	258	eP	04	01.00	-1.6
	1.2s		35.00nm		5.4mb	
MBO	66.73	70	iPc	04	04.70	0.9
FFC	66.86	346	eP	04	03.00	-1.0
	0.9s		24.00nm		5.3mb	
LON	67.55	330	P	04	09.00	0.4
TVO	67.66	255	eP	04	10.00	0.2
	1.2s		35.00nm		5.4mb	
RMW	68.05	331	P	04	13.00	1.3
BMW	68.07	329	P	04	13.20	1.4
PNT	68.37	333	eP	04	15.00	1.4
EDM	68.90	339	eP	04	15.50	-1.4
PGC	69.67	331	eP	04	24.00	2.5
FRB	73.74	5	eP	04	45.00	-0.5
LIC	76.12	81	P	05	00.04	-0.2
	1.2s		48.00nm		5.4mb	
Z	20s		7.00um		6.0Msz	
			S	14	40.00	
LIC	76.12	81	Pc	05	02.12	1.9
	1.0s		50.50nm		5.5mb	
TIC	76.22	81	P	05	00.82	0.0
	1.0s		39.00nm		5.4mb	
YKA	76.86	344	eP	05	01.20	-2.2
	1.3s		22.80nm		5.0mb	
TIO	80.28	56	iP	05	24.50	1.6
			i	05	33.00	27km

21d 06h

SPA	80.35	180	eP	05	24.00	1.3				e	07	37.00		NDI	151.32	46	ePKP	13	06.50	7.0X
	1.5s	68.18nm			5.5mb					i	11	35.90			0.8s	29.85nm				
	Z 20s	5.63um			5.9Msz					iS	17	56.00				ePP	16	50.00		
LEGH	80.74	83	eP	05	26.00	0.5				i	20	49.00				eSKSP	26	30.00		
KOGH	80.76	82	eP	05	25.00	-0.7	BBTK	113.44	51	ePdiff	07	50.00	-6.8X	NJ2	151.86	325	PKPc	13	04.20	4.0X
AVE	80.87	54	iP	05	29.00	3.2X	STK	122.78	222	iPKPc	12	11.40	3.4X		Z 20s	0.90um			5.6Msz	
			i	05	36.20	23km		0.2s	185.50nm						E 18s	1.90um				
TEGH	80.92	83	eP	05	25.00	-1.4	CTA	125.88	237	iPKPc	12	22.00	7.6X	BOM	151.95	68	ePKP	13	09.00	8.3X
SHGH	80.93	82	eP	05	27.00	0.5		1.4s	60.47nm								ePP	16	22.00	
HON	82.71	293	P	05	42.00	6.4X				iSKS	19	22.00		LZH	153.54	353	ePKP	13	02.00	-0.7
EVAL	82.71	50	eP	05	36.80	1.5	RAB	126.44	257	e(PKP)	12	12.00	-3.7X		7.0s	740.00nm				
IFR	82.76	54	iPc	05	38.00	2.1	ASPA	133.26	224	ePKP	12	27.50	-0.9		Z 27s	2.53um			5.9MszX	
EJIF	83.34	51	eP	05	41.20	2.6X		0.3s	13.40nm						E 18s	2.00um				
LIJA	83.52	51	eP	05	41.50	1.9		Z 20s	3.60um			6.1Msz				pPKP	13	10.00		
EPRU	83.68	51	eP	05	41.80	1.5				ePKS	15	55.60				sPKP	13	16.00		
ERUA	83.95	45	eP	05	42.90	1.4	WB2	135.31	229	ePKP	12	28.20	-4.2X			PP	16	57.00		
EPLA	83.97	48	eP	05	42.90	1.1	WRA	135.32	229	PKP	12	31.00	-1.4			eSKS	20	02.00		
EMON	84.16	44	eP	05	43.30	0.7		0.9s	12.50nm							SS	36	23.00		
MAL	84.24	51	iPd	05	43.00	-0.1	MDJ	136.96	329	ePKP	12	35.50	0.7	XAN	154.50	343	PKP	13	04.60	0.7
			iS	16	16.00			Z 20s	3.70um			6.1Msz			8.0s	1000.00nm				
			iPS	17	06.00			N 18s	2.00um						N 17s	2.30um				
ECOG	85.04	51	eP	05	48.00	0.7		E 16s	1.80um							PP	17	00.50		
AFC	85.05	51	eP	05	47.80	0.4				PP	15	20.00				SS	36	32.00		
VAL	85.31	36	P	05	54.00	6.0X				SKS	19	44.00		DAV	154.79	266	ePKP	13	08.00	3.3X
			S	16	17.00					SS	33	20.00		WHN	155.44	330	ePKP	13	06.00	0.9
SBA	85.38	191	(P)	06	01.00	12.9X	CN2	139.58	332	ePKP	12	40.00	0.4		Z 22s	1.30um			5.7Msz	
			iS	16	23.60			6.0s	700.00nm						E 18s	2.30um				
TOL	85.41	48	iP+	05	50.00	1.1		Z 20s	7.30um			6.4Msz				sPKP	13	21.50		
			iPP	08	50.00			N 20s	0.90um					GKN	156.62	37	PKP	13	07.00	-0.1
			ePP	11	40.00			E 20s	2.10um						1.0s	26.00nm				
			iS	16	19.00					ePP	15	35.00		QZH	156.88	313	ePKP	13	10.00	2.8X
			iPS	17	15.00		SNY	141.98	331	PKPd	12	38.00	-6.0X		E 20s	1.70um				
			eSS	22	05.00			Z 22s	3.30um			6.0Msz		KKN	157.16	36	PKP	13	07.80	-0.1
GUD	85.55	48	eP	05	50.80	1.0		N 16s	1.80um						0.8s	15.00nm				
BALM	85.72	334	eP	05	50.00	-0.1		E 20s	2.70um					DMN	157.19	37	PKP	13	08.80	0.8
ENIJ	86.00	52	eP	05	52.70	0.8				PKPab	12	43.80		GBA	157.35	78	PKPc	13	06.40	-1.7
EVIA	86.22	50	eP	05	53.90	0.8				PP	15	56.00			0.8s	3.90nm				
INK	86.49	343	eP	05	53.00	-0.6				SKKS	22	40.00		PKI	157.40	36	PKP	13	08.00	-0.3
	1.3s	138.00nm			6.0mb					SS	34	20.00		GUN	157.41	35	PKP	13	07.10	-1.2
ETOR	87.13	48	eP	05	59.70	2.2	KSH	143.32	32	PKP	12	42.00	-4.5X	KOD	157.58	87	ePKP	13	03.30	-5.5X
KLU	87.46	334	P	05	59.70	1.1	WMO	144.31	16	PKP	12	45.00	-3.0X				ePP	17	18.00	
TOA	87.84	334	P	06	01.00	0.6		Z 28s	2.50um			5.8MszX		HYB	157.60	68	ePKPc	13	07.00	-1.4
MBC	88.90	351	eP	06	05.00	-0.1				SKKS	22	52.00		CD2	158.65	352	PKP	13	12.00	2.7X
	1.2s	83.00nm			5.9mb		DL2	145.18	330	PKP	12	47.00	-2.5				SS	37	23.00	
PMR	88.91	333	P	06	06.00	0.6		8.0s	1100.00nm					BAG	159.09	291	ePKP	13	10.00	-0.2
	Z 20s	9.50um			6.2Msz			Z 22s	1.90um			5.8Msz		HKC	161.68	315	ePKP	13	16.00	3.5X
EROO	88.94	48	eP	06	07.60	1.6		N 22s	3.30um					GZH	161.71	318	ePKP	13	14.00	1.5
EBR	89.00	48	eP	06	06.00	-0.3				PP	16	14.00			Z 20s	2.80um				
			eS	16	40.00					eSS	34	54.00				PP	17	45.00		
EPF	89.42	46	eP	06	09.40	1.1	BJI	146.63	337	ePKP	12	51.50	-0.3	GYA	162.26	341	PKP	13	14.00	0.8
	1.0s	6.00nm			4.8mb			7.0s	2890.00nm						Z 40s	2.50um				
FBA	89.67	337	eP	06	08.70	-0.2		Z 22s	2.15um			5.9Msz			N 22s	3.70um				
	1.4s	99.43nm			5.9mb			N 17s	1.70um						E 22s	4.00um				
LPF	89.71	41	eP	06	09.80	0.4				ePP	16	14.00				SS	38	00.00		
MFF	89.94	43	eP	06	11.10	0.5				eSKKS	23	00.00		SHL	162.35	26	ePKP	13	12.50	-0.9
FLN	90.25	41	eP	06	12.60	0.6	HHC	147.40	344	ePKP	12	52.00	-1.3	KMI	164.49	351	PKPc	13	15.00	-0.6
	1.2s	32.75nm			5.5mb			Z 24s	4.00um			6.1MszX			7.0s	1400.00nm				
	Z 20s	4.75um			5.9Msz			N 22s	4.70um							PKPab	14	13.00		
LPO	90.40	45	eP	06	13.30	0.6				SS	35	21.50				PP	17	54.00		
	1.1s	19.55nm			5.3mb		BTO	148.03	346	PKP	12	56.00	1.7	QIZ	166.87	316	ePKP	13	17.00	-0.4
LDF	90.44	41	eP	06	13.50	0.6		N 17s	1.60um						N 17s	1.50um				
	1.1s	19.55nm			5.3mb			E 17s	1.20um						E 16s	0.80um				
RJF	90.77	44	eP	06	14.70	0.3				sPKP	13	11.00				ePKPab	14	18.00		
	0.9s	9.85nm			5.1mb					ePP	16	26.00				PP	18	08.00		
	Z 18s	7.50um			6.2Msz					SS	35	27.00				eSKKS	24	51.00		
IMA	92.38	337	P	06	22.00	0.4	TIA	149.48	332	ePKP	13	00.60	4.1X	CHG	170.87	8	ePKP	13	21.00	1.2
DAG	93.04	12	eP+	06	24.00	-0.3		9.0s	1800.00nm						S.D. = 1.1	on 175 of 218 obs.				
	Z 25s	16.06um			6.4MszX			Z 18s	2.60um			6.1Msz		----------						
	N 25s	8.84um						E 18s	1.80um					&	MAR 21, 1991	07h 41m 37.80s				
LPL	94.41	45	eP	06	32.60	1.1				PP	16	41.00			36.550 N			89.750 W		
LPG	94.42	45	eP	06	32.80	1.2	TIY	150.03	340	PKPd	12	58.00	0.6		DEPTH = 15.7km					
SNZO	95.08	227	P	06	36.00	1.6		Z 21s	3.40um			6.1Msz			NEW MADRID, MISSOURI REGION (486)					
			PP	10	32.00			N 20s	3.60um						<SLM-P>. MD 2.9 (SLM). Felt					
			SKS	17	08.00		GTA	150.42	1	PKP	12	58.60	0.6		(III) at Kewanee.					
			PS	19	12.00			Z 28s	5.20um			6.2MszX								
GRF	97.96	41	iPDIFc	06	50.00	2.7X		N 15s	1.40um					NRMS	0.14	116	iPc	41	42.12	0.4
	Z 22s	4.00um			5.9Msz					PKPab	13	07.00					S	41	44.72	
			ePP	10	22.00					sPKP	13	12.00		NMMO	0.16	77	iPd	41	42.32	0.2
			e(SKS)	17	30.00					PP	16	38.00					S	41	45.07	
			e(S)	19	42.00					SKKS	23	24.00		LDMO	0.20	133	iPc	41	42.94	0.2
MOX	98.31	40	eP	06	50.00	1.2				SS	35	50.00					S	41	46.21	
TRI	99.33	45	eP	06	43.00	-10.5X	SSE	151.15	321	PKPd	13	00.00	0.9	OGTN	0.25	121	iPc	41	43.67	0.2
			ePP	10	56.00			7.0s	1300.00nm								S	41	47.43	
			iSP	19	52.00			Z 20s	3.20um			6.1Msz		DWM	0.33	39	iPd	41	44.59	-0.2
			eSSS	29	30.00			E 18s	2.90um					HATI	0.38	171	iP	41	45.05	-0.6
			iLR	41	40.00					PP	16	48.00		ACTN	0.41	120	iPc	41	46.36	0.2
SKO	104.75	49	ePdiff	07	15.00	-2.9X				SS	36	06.00					S	41	52.05	

OHTN	0.44	155	iPc	41	46.87	0.2
			S	41	52.83	
MFTN	0.48	143	iPc	41	47.72	0.3
ECD	0.51	197	iPd	41	48.12	0.2
WGAR	0.78	207	eP	41	52.95	0.4
ELC	0.84	30	ePd	41	53.12	-0.5
JHP	1.13	213	eP	41	58.41	0.0
GOIL	1.19	51	eP	41	59.18	-0.4
CSIL	1.32	35	ePc	42	01.48	-0.1
FVM	1.53	340	eP	42	04.73	0.2
OLY	1.74	234	eP	42	07.75	0.2
PWLA	2.08	138	eP	42	12.00	-0.5
RSCP	3.52	104	e(P)	42	35.50	2.5
TKL	4.92	99	eP	42	51.10	-1.7

20 obs. associated

? MAR 21, 1991 08h 56m 36.58± 4.27s
17.280 S ±35.7km 179.225 W ±37.0km
DEPTH = 577.6 ± 46.6 km
4.5mb (6 obs.)
FIJI ISLANDS REGION (181)

DZM	14.31	248	iPc	59	38.90	0.5
BRS	27.73	244	iPd	01	41.50	-0.1
CNB	33.20	231	ePd	02	28.00	-0.1
CMS	34.66	239	iPc	02	40.60	0.4
	0.9s	24.00nm			4.8mb	
TOO	36.97	230	iPc	02	59.00	-0.1
STK	38.26	240	iPc	03	30.80	21.1X
	1.2s	10.90nm				
WB2	43.97	259	iPc	03	55.10	-0.1
	1.3s	5.20nm			3.9mb	
			eS	09	47.10	
WRA	43.98	259	P	03	55.00	-0.3
	0.3s	2.60nm			4.2mb	
ASPA	44.22	254	iPd	03	57.70	0.6
	0.6s	53.30nm			5.2mb	
			iPcP	05	36.30	
			iS	09	51.30	
FORR	49.54	244	eP	04	36.00	-1.3
	0.4s	15.00nm			4.9mb	
YKA	94.09	25	eP	08	53.50	-0.9
	0.8s	0.90nm			4.0mb	
CLL	144.68	347	iPKPc	15	10.60	1.4
	0.8s	17.00nm				
BRG	144.87	345	iPKP	15	11.40	1.8X
	1.0s	10.00nm				

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

MAR 21, 1991 09h 10m 30.42± 0.53s
42.818 N ± 3.9km 12.821 E ± 5.5km
DEPTH = 5.0km (geophysicist)
CENTRAL ITALY (381)

ASS	0.28	335	P	10	35.50	-0.6
MNS	0.44	194	P	10	38.90	-0.5
			eSg	10	46.70	
CIO	0.45	32	iPgc	10	39.15	-0.2
			iSg	10	47.04	
ALP	0.56	94	iPg	10	41.28	-0.3
			iSg	10	51.09	
AQU	0.63	137	P	10	43.00	-0.1
			eSg	10	54.50	
ARV	0.69	7	P	10	44.50	0.4
			eSg	10	54.60	
AOI	0.93	38	e(Pg)	10	51.56	2.9X
			eSg	11	04.92	
AZI	0.95	151	P	10	51.80	2.9X
CRE	1.03	322	P	10	50.80	0.4
			eSg	11	04.10	
SFI	1.31	328	P	10	55.20	0.1
			eSg	11	12.90	
SDI	1.33	146	P	10	56.30	0.7

S.D. = 0.5 on 9 af 11 obs.

? MAR 21, 1991 09h 25m 46.16± 0.97s
39.154 N ± 8.0km 27.666 E ± 9.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZM	0.82	203	ePg	26	02.00	0.0
			eSg	26	14.10	
DST	0.87	59	ePn	26	03.00	0.0
EZN	1.24	303	ePn	26	09.20	0.1
KGT	1.33	348	ePn	26	10.50	-0.1

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

? MAR 21, 1991 09h 49m 36.50± 1.02s
36.864 N ±13.5km 35.931 E ± 9.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

GAZ	1.07	73	ePg	49	56.50	-0.1
			eSg	50	11.50	
CSS	2.84	229	e(P)	50	22.00	-0.7
BHL	2.96	184	Pn	50	25.00	0.5
			Sn	51	06.00	
BBTK	3.88	321	eP	50	53.00	15.4X
			iS	51	50.00	
KVT	4.21	1	ePn	50	53.00	10.8X
BCK	4.31	280	ePn	50	44.00	0.4
ELL	4.83	270	iP	50	56.30	5.1X

S.D. = 0.9 on 4 af 7 obs.

MAR 21, 1991 10h 18m 31.74± 0.29s
55.148 N ± 3.1km 152.871 W ± 3.4km
DEPTH = 33.0km (normal)
5.0mb (46 obs.) 3.8Msz (2 obs.)
SOUTH OF ALASKA (17)

SYI	3.48	4	iPd	19	26.35	1.5
			eS	20	12.78	
CDD	3.82	354	ePd	19	31.36	1.8
MCNL	4.13	349	ePd	19	35.10	1.1
			eS	20	26.79	
AUI	4.21	356	eP	19	36.71	1.5
			eS	20	26.10	
AUE	4.23	357	ePd	19	37.26	1.8
AUH	4.24	356	ePd	19	37.33	1.7
XLV	4.36	8	iPd	19	38.76	1.3
SDN	4.37	276	iPc	19	32.80	-4.6X
CNPM	4.48	11	iPd	19	39.77	0.7
			eS	20	32.71	
HOM	4.57	8	ePd	19	41.52	1.2
			iS	20	36.23	
BRLK	4.75	12	iPd	19	43.04	0.2
NNL	4.98	9	ePd	19	46.85	0.7
RED	5.29	1	ePd	19	50.72	0.2
SEW	5.30	19	ePd	19	49.70	-0.9
			eS	20	53.65	
RSO	5.33	1	ePd	19	51.59	0.3
RS2	5.33	1	ePd	19	51.72	0.5
REF	5.36	1	ePd	19	51.90	0.3
RDN	5.38	1	ePd	19	52.10	0.2
NCT	5.43	360	ePd	19	52.75	0.2
RDT	5.45	2	iPd	19	52.78	0.0
SLKM	5.56	14	ePd	19	53.58	-0.7
MID	5.56	37	ePd	19	54.30	0.0
MTU	5.61	28	iPd	19	54.38	-0.6
NKA	5.68	8	ePd	19	56.84	0.9
KNIM	5.89	26	ePd	19	58.07	-1.0
SPU	6.07	4	ePd	20	01.03	-0.5
CKL	6.07	2	ePd	20	01.24	-0.4
BGL	6.14	2	ePd	20	02.89	0.3
CRP	6.15	3	ePd	20	02.70	-0.1
SVW	6.15	347	iPd	20	03.00	0.3
HIN	6.27	30	ePd	20	03.68	-0.6
NCG	6.29	3	eP	20	04.90	0.3
			eS	21	18.15	
PMS	6.36	15	eP	20	04.54	-1.1
SUA	6.43	9	ePd	20	05.68	-1.0
			eS	21	21.08	
GLI	6.51	26	ePd	20	06.55	-1.2
CVA	6.61	32	ePd	20	08.38	-0.7
KNK	6.70	19	ePd	20	09.25	-1.1
PWA	6.71	12	ePd	20	10.29	-0.1
SGAM	6.75	34	iPd	20	10.73	-0.3
PLRM	6.76	15	eP	20	09.75	-1.3
PMR	6.76	15	iPd	20	10.10	-1.0
VZW	6.80	27	iPd	20	11.14	-0.7
RAGM	6.84	36	ePd	20	11.90	-0.4
SKT	6.89	5	eP	20	13.83	0.8
			eS	21	30.46	
VLZ	6.92	27	iPd	20	13.04	-0.4
HMT	6.95	38	ePd	20	13.67	-0.1
			eS	21	31.71	
GHO	6.96	16	ePd	20	13.38	-0.6
KLU	7.34	27	ePd	20	18.70	-0.6
CUT	7.40	9	eP	20	20.60	0.5
WAX	7.54	41	iPd	20	21.80	-0.3
WRG	7.61	45	ePd	20	22.52	-0.5
TGL	7.75	39	iPd	20	24.84	-0.3
TOA	7.80	24	iPc	20	26.80	1.0
GLB	7.91	33	ePd	20	26.56	-0.7
TZL	7.93	26	ePc	20	28.50	1.0
TTA	7.97	350	iPc	20	28.10	-0.1
HUR	8.03	11	eP	20	28.92	0.0
BALM	8.11	39	iPd	20	29.67	-0.6
SDG	8.31	24	ePd	20	33.71	0.8
YKU	8.36	53	eP	20	33.73	0.3
TRF	8.43	8	eP	20	35.27	0.6
CTGM	8.44	42	ePd	20	34.38	-0.4
RND	8.53	12	eP	20	35.25	-0.7
PNL	8.56	53	eP	20	35.64	-0.7
BCPM	8.59	51	eP	20	36.17	-0.5
HQN	8.71	55	ePd	20	36.99	-1.4
PAX	8.72	23	eP	20	38.41	-0.1
MCK	8.84	11	eP	20	39.72	-0.4
BWN	9.21	9	eP	20	45.38	0.1
DDM	9.36	19	eP	20	48.75	1.3
NEA	9.65	10	eP	20	50.67	-0.6
WRH	9.65	12	eP	20	50.15	-1.2
HDA	9.75	15	eP	20	52.12	-0.5
CCB	9.86	13	eP	20	52.33	-1.8
SIT	9.99	72	iPd	20	52.10	-3.8X
RDS	9.99	12	eP	20	54.61	-1.4
FBA	10.10	12	ePc	20	56.40	-1.1
	0.8s	89.00nm				6.1mb X
MDM	10.11	11	eP	20	55.81	-1.8
GLM	10.24	13	eP	20	58.04	-1.4
IMA	10.97	358	iPc	21	09.10	-0.3
ANM	11.32	332	eP	21	12.23	-1.8
INK	15.95	27	eP	22	16.00	1.1
	0.9s	54.00nm			4.7mb	
			pP	22	30.00	
YKA	20.86	54	eP	23	16.20	3.4X
	0.8s	24.90nm			4.7mb	
PNT	21.05	92	eP	23	15.00	0.1
	0.8s	13.00nm			4.4mb	
NEW	23.00	92	eP	23	34.50	0.1
MBC	24.55	19	ePd	23	51.30	2.2
	0.7s	30.00nm			5.0mb	
SES	25.46	83	eP	23	58.00	0.0
LRM	27.01	93	eP	24	16.30	3.7X
KVN	28.24	110	eP	24	30.00	6.3X
FFC	28.72	70	eP	24	28.00	0.4
	0.9s	10.00nm			4.5mb	
BW06	30.50	96	eP	24	47.50	3.5X
RSSD	32.84	89	eP	25	04.30	-0.1
	0.6s	3.02nm			4.4mb	
PV09	33.59	101	eP	25	11.00	0.0
ANMO	37.62	103	eP	25	49.50	4.3X
FRB	40.66	43	ePc	26	10.30	0.5
DAG	45.19	13	iPc	26	47.00	0.5
	0.5s	24.65nm			5.4mb	
SCH	46.34	53	ePd	26	55.70	-0.2
	0.6s	30.00nm			5.4mb	
CN2	51.33	293	eP	27	32.70	-1.8
KEV	55.40	0	eP	28	04.00	-0.4
	0.8s	19.10nm			5.2mb	
SOD	57.80	0	iP	28	22.10	0.7
HHC	60.58	300	eP	28	40.60	-0.6
TIY	62.52	297	eP	28	52.50	-1.7
KAF	63.08	0	eP	28	57.00	-0.5
NB2	63.47	9	P	29	00.20	0.0
	0.9s	15.00nm			5.1mb	
HFS	64.57	7	eP	29	06.70	-0.6
	0.5s	1.50nm			4.3mb	
NUR	64.67	1	eP	29	08.00	0.1
	0.5s	14.00nm			5.3mb	
EKA	67.12	18	P	29	24.00	0.3
	0.8s	20.70nm			5.3mb	
XAN	67.16	297	P	29	22.60	-1.7
GTA	67.33	307	iPd	29	24.00	-1.4
	0.6s	10.00nm			5.1mb	
LZH	68.08	302	eP	29	28.20	-2.0
	1.5s	28.00nm			5.1mb	
WMO	68.85	317	eP	29	34.90	0.2
ETA	69.04	21	eP	29	36.20	0.6
	0.7s	62.00nm			5.8mb	
ECB	69.23	21	eP	29	37.30	0.6
CD2	72.28	299	P	29	54.60	-1.0
MOX	73.78	10	eP	30	05.00	1.0
	1.3s	22.00nm			5.0mb	
GRR	74.19	19	eP	30	06.90	0.5
	0.6s	5.40nm			4.7mb	
GYA	74.37	294	P	30	07.00	-0.9
LPF	74.50	19	eP	30	08.80	0.6
	0.8s	12.10nm			4.9mb	
CDF	75.47	14	eP	30	14.60	0.7
	1.1s	17.10nm			5.0mb	

21d 10h

KHC	75.47	9	iP	30	15.20	1.4
HAU	75.74	14	eP	30	15.90	0.5
	0.9s	6.55nm				4.6mb
	Z 19s	0.05um				3.8Msz
BSF	75.97	14	eP	30	17.10	0.3
MFF	76.04	19	eP	30	17.70	0.7
	1.4s	39.20nm				5.2mb
LOR	76.09	16	eP	30	17.90	0.6
	1.0s	19.00nm				5.0mb
SSF	76.23	16	eP	30	18.70	0.6
	0.8s	16.80nm				5.1mb
LBF	76.38	16	eP	30	19.30	0.3
	0.9s	9.00nm				4.8mb
AVF	76.47	17	eP	30	19.80	0.4
	0.7s	12.15nm				5.0mb
BGF	76.61	17	eP	30	20.50	0.3
	0.7s	11.00nm				5.0mb
LSF	76.68	18	eP	30	21.00	0.3
	0.5s	7.30nm				5.0mb
ZST	76.68	7	eP	30	20.70	0.1
SMF	76.69	16	eP	30	21.00	0.3
	1.1s	19.55nm				5.0mb
TCF	76.77	17	eP	30	21.50	0.4
	0.6s	6.30nm				4.8mb
MAF	76.89	17	eP	30	22.30	0.5
	0.8s	7.40nm				4.8mb
KBA	77.49	10	iPd	30	26.60	1.3
	1.2s	15.70nm				4.9mb
		i		30	30.20	
RJF	77.60	18	eP	30	26.00	0.3
	0.9s	16.40nm				5.1mb
	Z 19s	0.05um				3.9Msz
LFF	77.81	19	eP	30	27.60	0.8
	0.8s	16.10nm				5.1mb
CAF	78.06	18	eP	30	29.10	0.8
	1.2s	16.35nm				4.9mb
LPO	78.14	19	eP	30	29.40	0.7
	0.7s	11.00nm				5.0mb
LPL	78.23	14	eP	30	30.90	1.4
	0.8s	5.35nm				4.6mb
LPG	78.25	14	eP	30	31.00	1.3
EPF	79.57	20	eP	30	36.90	0.3
	0.9s	4.90nm				4.5mb
SKO	83.13	4	iP	30	56.40	1.2
GUN	83.24	310	P	30	56.20	-0.2
	0.8s	23.00nm				5.3mb
KKN	83.61	311	P	30	58.00	-0.1
	0.6s	12.00nm				5.2mb
GKN	83.70	311	P	30	58.20	-0.3
	0.6s	14.00nm				5.3mb
PKI	83.74	311	P	30	58.80	-0.2
	0.6s	18.00nm				5.4mb
DMN	83.84	311	P	30	59.40	0.0
	0.4s	11.00nm				5.4mb
OHR	83.96	5	eP	31	00.50	1.0
WB2	96.76	245	eP	31	54.40	-5.6X
	1.7s	1.20nm				4.1mb
WRA	96.77	245	P	31	56.00	-4.0X
	0.8s	1.10nm				4.4mb
WRA	96.77	245	P	32	00.00	0.0X
	1.1s	0.90nm				4.2mb
BUL	145.03	358	iPKPc	38	05.30	-1.9
	1.0s	31.50nm				
		i		38	09.80	
	S.D. = 0.9	on 142 of 152 obs.				

% MAR 21, 1991 10h 54m 27.49± 0.85s
39.114 N ± 6.7km 27.532 E ± 8.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZM	0.75	196	iPg	54	42.20	0.1
			iSg	54	53.20	
DST	0.98	60	ePn	54	46.00	-0.2
EZN	1.17	308	ePn	54	49.20	-0.2
BNT	1.28	13	iPn	54	51.30	0.1
KGT	1.35	353	iPn	54	52.40	0.1
	S.D. = 0.2	on 5 of 5 obs.				

? MAR 21, 1991 11h 16m 23.69± 3.04s
35.565 N ±37.2km 27.475 E ±22.3km
DEPTH = 10.0km (geophysicist)
DODECANESE ISLANDS (369)

ARG	0.84	39	eP	16	39.50	-0.4
			eS	16	52.90	
NPS	1.55	259	eP	16	51.50	0.1
YER	1.70	22	ePn	16	54.00	0.5
VLI	3.85	289	eP	17	24.00	-0.2
	S.D. = 0.6	on 4 of 4 obs.				

? MAR 21, 1991 13h 12m 29.30± 7.61s
31.142 S ±55.9km 68.611 W ±51.4km
DEPTH = 111.4 ± 43.3 km
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.22	147	iPc	12	45.50	0.0
ZON	0.41	188	iPd	12	46.00	0.0
			eS	12	57.00	
CFA	0.56	146	iPc	12	47.00	0.0
			eS	12	58.90	
MDZ	1.75	187	iP	12	59.70	0.0
			iS	13	20.20	
TCA	3.45	94	ePd	13	22.20	0.0
	S.D. = 0.0	on 5 of 5 obs.				

MAR 21, 1991 13h 31m 56.45± 0.48s
27.304 N ± 7.1km 18.585 W ± 8.2km
DEPTH = 10.0km (geophysicist)
4.7mb (17 obs.) 3.9Msz (2 obs.)
CANARY ISLANDS REGION (394)
Felt (IV) on Hierro.

CHIE	0.70	53	iP	32	13.10	2.9X
CVVD	0.77	48	iP	32	14.10	2.6X
TBT	1.49	23	iPc	32	22.40	-0.9
CTFE	2.37	60	iP	32	33.50	-2.4
			iS	33	02.50	
GGC	2.74	72	iP	32	41.00	-0.3
CFTV	4.14	73	iP	33	00.30	-0.8
TIO	10.54	67	iPn	34	28.00	-2.7
			i	34	34.00	
			iSn	36	20.00	
			i	36	24.00	
AVE	11.35	56	iPn	34	39.00	-2.7
			eSn	36	40.00	
			i	36	43.00	
IFR	13.16	59	iPn	35	04.00	-2.1
			iSn	37	23.00	
			i	37	27.00	
TOL	17.41	40	eP	36	15.00	14.1X
EPF	21.96	39	eP	36	56.20	4.1X
	0.9s	16.45nm				4.5mb
CAF	24.13	38	eP	37	15.50	2.2
	0.8s	8.05nm				4.4mb
TIC	24.25	145	P	37	15.16	0.4
	0.6s	75.50nm				5.5mb
			S	41	41.00	
LIC	24.61	146	P	37	18.54	0.4
	0.9s	24.50nm				4.9mb
	Z 20s	0.30um				3.8Msz
KIC	24.64	145	Pc	37	18.98	0.5
	0.9s	37.50nm				5.0mb
			S	41	50.98	
TCF	25.09	35	eP	37	23.20	0.6
BGF	25.60	36	eP	37	28.60	1.2
SSF	26.27	36	eP	37	34.60	1.0
	0.9s	8.20nm				4.4mb
LPL	27.13	41	eP	37	43.80	2.1
	1.0s	6.00nm				4.3mb
LPG	27.13	41	eP	37	43.80	2.0
LEGH	27.76	138	eP	37	46.50	-0.9
			e	43	05.00	
TEGH	27.88	137	eP	37	50.00	1.5
			e	43	02.50	
BSF	28.49	37	eP	37	55.00	1.1
CDF	29.10	37	eP	38	00.10	0.7
	0.7s	4.40nm				4.4mb
MOX	32.70	36	eP	38	32.00	1.0
HFS	39.51	25	eP	39	29.20	0.5
	0.6s	2.70nm				4.1mb
MLR	39.60	51	eP	39	32.00	2.2
BCAO	42.06	116	iPc	39	51.40	1.2
	0.3s	8.00nm				4.9mb
			ic	41	27.40	
SOB1	42.25	214	eP	39	51.80	0.1
			e	40	03.70	
PDCR	44.33	209	eP	40	07.70	-0.9
DAG	49.54	360	eP	40	49.20	0.4
SIV	59.59	229	P	42	01.30	-1.7
FFC	64.47	320	eP	42	34.00	-1.2
	0.9s	7.00nm				4.9mb
ZOBO	64.69	234	Pc	42	37.00	-0.8
	Z 20s	0.09um				3.9Msz
			LR	05	12.00	
MBC	66.22	345	eP	42	45.00	-1.2
	0.9s	10.00nm				5.0mb
YKA	68.85	330	eP	43	01.50	-1.4
	0.6s	1.60nm				4.4mb
INK	73.50	339	eP	43	30.00	-0.7
GKN	88.10	59	P	44	49.60	0.5
	0.8s	12.00nm				5.3mb
DMN	88.66	60	P	44	52.80	0.9
KKN	88.70	59	P	44	52.60	0.6
	0.8s	11.00nm				5.2mb
PKI	88.91	59	P	44	52.20	-1.0
GBA	89.09	75	Pc	44	53.10	-0.6
	1.0s	4.30nm				4.7mb
GUN	89.10	59	P	44	55.00	0.9
	1.1s	24.00nm				5.4mb
WRA	154.17	79	PKP	51	58.00	7.8X
	0.4s	2.00nm				
WB2	154.18	79	ePKP	51	58.10	7.9X
	0.9s	0.60nm				
		i		52	12.60	
	S.D. = 1.4	on 39 of 45 obs.				

? MAR 21, 1991 13h 53m 48.63± 1.48s
15.728 N ±23.8km 92.412 W ±16.1km
DEPTH = 199.7 ± 13.5 km
3.3mb (1 obs.)
MEXICO-GUATEMALA BORDER REGION (62)

TPX	0.83	170	iP	54	17.50	0.0
			iS	54	39.00	
SCX	1.02	348	iP	54	19.00	0.2
			iS	54	39.00	
OXX	4.35	289	iP	54	55.00	-0.6
			iS	55	45.00	
IISM	5.74	305	(P)	55	11.50	-1.8
IIT	6.51	301	eP	55	24.50	0.9
PPM	6.80	300	(P)	55	28.50	1.0
III	7.24	292	iP	55	33.50	0.4
YKA	49.26	347	eP	02	18.50	-0.1
	0.6s	0.70nm				3.3mb
	S.D. = 1.2	on 8 of 8 obs.				

% MAR 21, 1991 14h 11m 25.67± 0.95s
38.803 N ± 8.1km 27.444 E ±11.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZM	0.43	199	ePg	11	34.30	-0.1
			eSg	11	42.30	
DST	1.22	49	ePn	11	48.00	-0.4
EZN	1.34	320	ePn	11	51.00	0.7
BNT	1.59	13	ePn	11	52.80	-1.2
KGT	1.65	356	ePn	11	54.20	-0.6
YLV	2.31	40	ePn	12	06.00	1.6
	S.D. = 1.3	on 6 of 6 obs.				

? MAR 21, 1991 14h 28m 33.29± 0.95s
60.390 N ±27.9km 167.395 E ±15.5km
DEPTH = 33.0km (normal)
4.4mb (6 obs.)
EASTERN SIBERIA (671)

FBA	20.72	58	ePc	33	13.80	0.9
	0.8s	9.31nm				4.2mb
INK	25.76	47	eP	34	02.50	0.4
MBC	28.72	28	eP	34	28.00	-0.9
YKA	35.25	52	eP	35	25.70	-0.4
	0.8s	1.90nm				4.1mb
FFC	45.26	55	eP	36	50.00	1.1
	1.0s	12.00nm				4.8mb
NB2	57.51	347	P	38	19.40	-1.7
	0.7s	3.30nm				4.5mb
GUN	62.03	278	PKP	38	53.40	0.5
KKN	62.43	278	PKP	38	54.40	-1.0
PKI	62.54	278	PKP	38	55.60	-0.7
GKN	62.56	279	PKP	38	57.40	1.2
DMN	62.66	278	PKP	38	56.00	-1.0
CHG	63.19	261	eP	39	02.20	2.0
CHTO	63.19	261	eP	39	02.20	2.0
	1.0s	4.75nm				4.6mb
HYB	74.47	278	eP	40	10.00	0.1
GBA	78.28	277	Pd	40	31.60	0.4
	0.7s	1.90nm				4.2mb
ASPA	88.09	210	eP	41	18.30	-3.0
	S.D. = 1.4	on 16 of 16 obs.				

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* MAR 21, 1991 15h 02m 19.13± 0.71s
32.814 N ± 7.2km 86.804 E ±13.0km
DEPTH = 33.0km (normal)
4.6mb (9 obs.)
TIBET (306)

GUN	4.95	190	P	03 34.60	1.1
	0.7s	39.00nm			
GKN	5.15	202	P	03 35.00	-1.1
	0.6s	15.00nm		4.6mb	
KKN	5.18	195	P	03 36.80	0.2
	0.6s	23.00nm		4.8mb	
PKI	5.36	193	P	03 39.20	-0.1
	0.5s	25.00nm		5.0mb	
DMN	5.39	196	P	03 39.80	0.2
	0.6s	29.00nm		5.0mb	
SHL	8.48	147	eP	04 22.00	-0.7
BJI	24.63	65	eP	07 43.00	5.2X
	1.0s	9.00nm		4.3mb	
HFS	53.89	324	eP	11 40.40	-0.7
	0.7s	3.40nm		4.5mb	
BCAO	69.37	262	ePd	13 26.00	0.0
	0.7s	6.00nm		4.8mb	
WRA	69.39	132	P	13 26.00	0.0
	0.5s	1.40nm		4.3mb	
YKA	83.47	10	eP	14 45.20	0.8
	0.7s	0.60nm		3.8mb	
S.D. = 0.8 on 10 of 11 obs.					

% MAR 21, 1991 15h 40m 30.88± 0.52s
43.117 N ± 6.4km 0.678 W ± 3.6km
DEPTH = 10.0km (geophysicist)
PYRENEES (378)
MD 1.0 (STR).

ATE	0.04	211	Pg	40 32.78	-0.2
			Sg	40 34.12	
ESCF	0.08	117	Pg	40 33.61	0.2
MADF	0.11	286	Pg	40 33.82	0.1
			Sg	40 35.82	
ISSF	0.12	224	Pg	40 34.04	0.0
			Sg	40 36.73	
OGE	0.16	71	Pg	40 34.43	-0.1
LHE	0.21	168	Pg	40 35.47	0.0
ELYF	0.24	283	Pg	40 35.99	0.0
JAU	0.24	109	Pg	40 36.08	0.0
BOH	0.24	267	Pg	40 36.08	-0.1
S.D. = 0.1 on 9 of 9 obs.					

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* MAR 21, 1991 16h 19m 55.45± 0.64s
51.458 N ±16.8km 178.043 W ± 7.6km
DEPTH = 33.0km (normal)
4.6mb (9 obs.)
ANDREANOF ISLANDS, ALEUTIAN IS. (7)
Felt (III) on Adak.

ADK	0.95	63	iP	20 12.80	0.4
TTA	16.46	37	eP	23 46.70	1.4
IMA	19.14	31	eP	24 18.80	0.5
	1.3s	15.33nm		4.1mb	
FBA	20.59	38	eP	24 33.00	-0.8
INK	27.12	35	eP	25 35.00	-1.8
YKA	34.83	47	eP	26 43.40	-1.5
	0.5s	0.50nm		3.7mb	
LON	36.34	75	eP	26 59.50	1.6
NEW	38.41	70	eP	27 14.50	-0.8
	0.8s	7.81nm		4.6mb	
SNY	40.23	280	eP	27 28.00	-2.3
BJI	45.82	283	eP	28 16.00	0.3
BW06	45.83	73	eP	28 15.00	-1.1
	1.0s	5.17nm		4.4mb	
		e		28 24.80	
HHC	48.12	286	eP	28 35.50	1.5
TIY	49.55	282	Pc	28 45.80	0.8
ANMO	52.61	79	e(P)	29 09.50	1.1
	1.3s	16.83nm		4.8mb	
		e		29 17.50	
XAN	54.11	281	P	29 18.90	-0.3
LZH	55.82	287	eP	29 31.50	-0.3
	2.0s	29.00nm		5.0mb	
CD2	59.42	282	P	29 56.60	-0.5
GUN	72.26	292	P	31 20.00	0.3
KKN	72.70	293	P	31 22.40	0.3
	0.6s	11.00nm		5.0mb	
PKI	72.79	293	P	31 22.80	0.0
GKN	72.91	293	P	31 22.80	-0.5
DMN	72.94	293	P	31 25.40	1.8
WRA	82.40	225	P	32 15.00	-0.4
	1.0s	1.20nm		3.9mb	
HYB	84.63	291	eP	32 27.00	0.1
GBA	88.29	290	Pd	32 41.40	-3.4X
	0.5s	2.60nm		4.8mb	
S.D. = 1.1 on 24 of 25 obs.					

MAR 21, 1991 16h 34m 29.09± 0.72s
41.121 N ± 7.2km 28.944 E ± 4.3km
DEPTH = 5.0km (geophysicist)
TURKEY (366)

ISK	0.10	123	iPg	34 31.20	-0.1
CTT	0.39	274	iPg	34 36.70	-0.2
			iSg	34 44.00	
GBZT	0.50	131	ePg	34 39.80	0.6
HRT	0.62	118	iPg	34 41.20	-0.4
YLV	0.64	149	iPn	34 41.50	-0.5
KCT	0.98	207	ePn	34 48.00	-0.2
BNT	1.09	226	iPn	34 49.70	-0.4
DMK	1.13	308	iPn	34 50.90	0.1
KGT	1.41	242	iPn	34 55.70	0.2
DST	1.53	189	ePn	34 58.00	0.8
S.D. = 0.5 on 10 of 10 obs.					

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* MAR 21, 1991 17h 22m 38.67± 0.73s
21.683 N ± 6.3km 122.011 E ±12.5km
DEPTH = 27.1km (2 depth phases)
4.1mb (9 obs.) 3.8Msz (1 obs.)
TAIWAN REGION (243)

TWG	1.43	323	ePc	23 01.70	-1.3
			eS	23 19.60	
TWD	2.42	351	ePc	23 17.30	0.1
TWC	2.92	357	eP	23 25.20	1.0
PIP	3.59	202	iPd	23 34.00	0.2
			iS	24 41.00	
CVP	3.96	183	ePd	23 40.00	0.9
			eS	23 55.00	
OZH	4.52	317	ePn	23 45.00	-2.1
			Sn	24 35.50	
BAG	5.42	195	eP	24 01.00	1.1
OCP	7.06	187	eP	24 38.00	15.1X
GZH	8.14	282	eP	24 35.30	-2.7
XAN	16.88	320	eP	26 34.50	-0.1
TIY	17.99	335	eP	26 55.00	6.4X
Z	16s	1.10um			
N	11s	0.58um			
CD2	18.75	303	P	26 57.60	-0.3
BJI	18.96	346	eP	27 08.00	7.6X
HHC	21.06	337	eP	27 23.00	-0.1
LZH	21.37	316	eP	27 27.00	0.6
	1.8s	32.00nm		4.4mb	
Z	18s	0.36um		3.8Msz	
		pP		27 36.00 33km	
BTO	21.43	334	eP	27 28.80	2.0
CHG	21.83	267	eP	27 33.80	2.9X
CHTO	21.83	267	eP	27 31.00	0.1
	1.1s	6.48nm		4.0mb	
CN2	22.24	7	eP	27 38.00	3.2X
	1.0s	10.00nm		4.2mb	
Z	14s	1.00um		4.4MszX	
		epP		27 44.00 22km	
MDJ	23.71	14	eP	27 53.00	3.8X
GTA	25.92	318	eP	28 10.40	-0.1
	1.0s	10.00nm		4.4mb	
GUN	33.30	288	P	29 17.40	0.6X
PKI	33.70	287	P	29 21.60	1.4
KKN	33.82	288	P	29 24.00	2.8X
DMN	33.97	288	P	29 23.80	1.3
GKN	34.40	288	P	29 28.40	2.3
WMO	35.95	316	P	29 40.00	1.0
WRA	43.09	163	P	30 36.00	-2.3
	0.9s	2.70nm		4.0mb	
WB2	43.09	163	eP	30 34.60	-3.8X
	1.0s	3.60nm		4.1mb	
ASPA	46.54	165	eP	31 04.60	-1.3
	0.9s	4.00nm		4.4mb	
		e		35 00.80	
INK	75.25	22	eP	34 20.00	-0.5
NB2	80.78	333	P	34 50.00	-1.1
	0.7s	0.90nm		3.9mb	
YKA	84.97	23	eP	35 16.80	4.3X
	0.6s	0.40nm		3.8mb	
S.D. = 1.4 on 23 of 33 obs.					

MAR 21, 1991 18h 27m 36.01± 0.22s
11.668 S ± 3.9km 166.544 E ± 5.0km
DEPTH = 32.6km (3 depth phases)
5.5mb (31 obs.) 5.4Msz (11 obs.)
SANTA CRUZ ISLANDS (184)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 21S, 49C
Centroid Location:
Origin Time 18:27:48.6 0.4
Lat 11.19S 0.04 Lon 165.99E 0.02
Dep 53.3 1.6 Half-duration 2.7
Moment Tensor; Scale 10**17 Nm
Mrr= 4.35 0.10 Mtt= 0.67 0.22
Mff=-5.02 0.22 Mrt= 0.81 0.14
Mrf= 1.29 0.15 Mtf= 0.00 0.11
Principal Axes:
T Val= 4.69 Plg=76 Azm=327
N 0.51 11 183
P -5.20 8 91
Best Double Couple:Mo=4.9*10**17
NP1:Strike=168 Dip=38 Slip= 72
NP2: 11 54 104

BKM	6.19	165	iP	29 19.00	11.4X
			iS	30 37.20	
HNR	6.86	288	iPd	29 17.50	0.6
			eS	30 29.00	
SVO	7.08	290	eP	29 21.00	1.0
DZM	10.35	181	iPc	30 07.00	1.6
			iS	31 58.00	
SGE	12.48	119	eP	30 43.10	8.7X
VUN	13.13	120	eP	30 51.60	8.7X
SVA	13.18	121	ePc	30 52.10	8.6X
RAB	16.05	296	e(P)	31 04.00	-17.0X
			eS	34 20.00	
PMG	19.19	275	e(P)	32 00.00	-0.1
BRS	20.29	218	iPc	32 13.50	1.6
			i	32 17.00	13kmX
			iS	35 58.00	
CTA	21.22	244	iPd	32 22.80	1.3
	0.9s	106.72nm		5.3mb	
			iS	36 06.00	
RMO	22.32	226	iPc	32 33.60	1.2
COO	23.21	214	eP	32 43.00	1.8
RIV	26.16	210	eP	33 14.00	4.8X
			eS	37 40.00	
OIS	27.31	248	eP	33 19.00	-1.0
			i	35 42.70	
CMS	27.47	221	iPc	33 22.00	0.7
	1.0s	137.00nm		5.6mb	
CNB	28.23	211	ePd	33 29.60	1.4
	1.0s	140.00nm		5.6mb	
NGZ	28.56	165	P	33 33.60	2.4
CNZ	28.56	165	P	33 33.40	2.2
MNG	29.89	166	P	33 42.00	-1.0
	0.4s	29.00nm		5.4mb	
KIW	30.00	167	P	33 43.60	-0.3
PGZ	30.09	165	P	33 43.70	-1.0
	0.5s	53.00nm		5.6mb	
TCW	30.20	168	P	33 45.50	-0.2
CAW	30.27	167	P	33 45.80	-0.5
MRW	30.31	168	P	33 45.90	-0.7
SNZO	30.38	168	eP	33 48.00	0.7
			eS	38 40.00	
WDW	30.41	167	P	33 46.60	-0.9
MTW	30.41	167	P	33 46.40	-1.2
THZ	30.49	171	P	33 48.60	0.3
STK	30.55	225	iPd	34 08.00	19.1X
	0.8s	53.10nm			
			iPcP	37 31.40	
BLW	30.61	167	P	33 48.40	-0.9
MOW	30.61	167	P	33 47.60	-1.7
KHZ	31.24	170	P	33 53.80	-1.0
LTZ	31.40	172	P	33 56.40	0.1
WB2	32.00	251	iPd	33 59.70	-2.1
	0.7s	52.90nm		5.5mb	
			iPP	35 10.90	
			eS	40 30.30	
			e	42 42.80	
ASPA	33.23	245	eP	34 10.50	-2.0
	0.8s	63.10nm		5.6mb	
Z	22s	5.90um		5.3Msz	
			iPcP	36 54.40	
			iS	39 07.60	
			iScP	40 40.50	
			iScS	44 33.40	
BFD	33.31	216	eP	34 14.00	1.0

21d 18h

			e	37	53.00						S	47	53.00			HFS	127.61	343	ePKP	46	38.70	-0.5
ADE	34.30	223	eP	34	21.00	-0.7		NST	71.11	291	eP	38	50.40	-3.3X			0.4s		0.70nm				
	0.9s	462.18nm				6.4mb		XAN	71.12	312	Pc	38	53.00	-0.5		BUL	127.91	233	iPKPd	46	40.70	-0.5
TAU	35.32	205	iPd	34	30.00	-0.2		KMI	72.11	301	Pd	39	01.00	1.1			1.0s		17.50nm				
			e	40	18.00				1.5s		110.00nm			5.6mb		KRI	128.87	237	ePKP	46	38.90	-4.2X
WARB	40.23	243	eP	35	11.00	-0.6			Z 25s		2.00um			5.3MszX		CLL	134.98	337	e(PKP)	46	55.00	1.5
	0.5s	13.00nm				4.9mb						pP	39	20.00	71kmX				e	50	31.00	
FORR	40.33	236	eP	35	12.50	0.3						S	48	21.00		ZST	135.54	331	ePKP	46	55.70	1.0
	0.4s	29.00nm				5.4mb		BDT	72.64	292	eP	39	03.80	1.0					e	50	28.60	
TVO	43.11	104	eP	35	40.00	4.7X		HHC	72.81	319	P	39	03.60	0.0		GRF	136.96	337	e(PKP)	46	51.20	-6.2X
	1.0s	30.00nm				5.0mb			Z 28s		5.00um			5.6MszX			Z 22s		0.50um			5.2Msz	
PMO	44.40	100	eP	35	51.00	5.3X						S	48	28.00						e(PP)	49	23.00	
	1.0s	30.00nm				5.1mb		CHG	73.19	294	ePc	39	06.10	0.0		OHR	138.02	321	ePKP	46	51.00	-8.7X
RUV	44.89	100	eP	35	53.00	3.4X		CD2	73.60	307	P	39	08.30	0.0		MFF	143.40	345	ePKP	47	06.20	-2.8X
	1.0s	25.00nm				5.1mb			1.2s		100.00nm			5.7mb		RJF	144.12	342	ePKP	47	08.80	-1.5
MBL	45.65	252	eP	35	55.00	-0.6		BTO	73.67	319	P	39	09.00	0.4		CAF	144.29	341	ePKP	47	08.80	-1.8
	0.6s	73.00nm				5.8mb		LZH	75.75	312	Pc	39	22.00	1.3			0.8s		6.70nm				
CGP	46.17	294	eP	36	01.00	1.2			5.0s		580.00nm			5.8mb X		LFF	144.68	342	ePKP	47	10.00	-1.2
PLP	47.11	297	ePc	36	07.00	-0.2			Z 24s		2.36um			5.4MszX			0.8s		10.75nm				
MAP	47.61	296	eP	36	13.00	1.9			E 18s		1.07um					LPO	144.78	342	ePKP	47	10.30	-1.1
KLB	49.04	238	eP	36	21.00	-1.1						pP	39	33.00	36km		0.9s		11.45nm				
	0.7s	54.00nm				5.7mb						ePP	42	13.00		PDCR	144.97	133	ePKP	47	10.50	-2.0
NWAO	49.77	237	eP	36	28.00	0.3						eS	48	58.00		SOB1	145.73	126	ePKP	47	13.20	-0.7
	0.7s	38.00nm				5.5mb						eSS	53	53.00					e	47	18.60	
	Z 20s	6.30um				5.6Msz		SPA	78.41	180	iPd	39	26.70	-8.2X		BCAO	147.54	260	iPKPd	47	16.20	-0.7
	N 20s	4.40um							1.2s		113.38nm			5.8mb			0.7s		57.00nm				
	E 20s	6.00um						TTA	79.80	16	P	39	42.70	0.3					ic	47	18.90	
MUN	50.41	238	eP	36	32.00	-0.6			0.9s		5.21nm			4.5mb					ic	47	44.50	
	Z 20s	3.70um				5.4Msz		GTA	80.05	314	iPc	39	45.00	0.7					ic	49	14.00	
QCP	52.08	299	eP	36	29.00	-16.4X			6.0s		790.00nm			5.9mb X		ETOR	149.28	343	ePKP	47	23.50	4.6X
BAG	53.34	301	eP	36	53.00	-1.9			Z 24s		2.20um			5.4MszX		GUD	150.00	346	ePKP	47	26.50	6.4X
QZH	59.25	308	eP	37	35.00	-1.9			E 20s		2.20um					TOL	150.69	345	ePKP	47	28.00	7.0X
	Z 24s	1.60um				5.1MszX						S	49	47.00		EVIA	151.42	342	ePKP	47	29.00	6.8X
			pP	37	48.00	46kmX		PMR	80.87		20 P	39	48.00	0.1		LIC	170.07	238	PKP	47	44.00	1.7
			eS	45	44.00				0.7s		5.81nm			4.7mb		LKO	171.98	255	PKP	47	43.42	0.3
SSE	60.84	316	P	37	40.00	-7.7X			Z 20s		4.00um			5.8Msz			S.D. = 1.1		on 106 of 141 obs.				
	Z 20s	1.80um				5.2Msz		SHL	81.50	298	iP	39	52.00	-0.3		---							
	N 10s	0.50um										eS	50	03.00			MAR 21, 1991 18h 29m 58.32± 0.44s						
			pP	37	49.90	32km		TOA	82.23		20 P	39	56.50	1.4			1.145 N ± 6.7km 122.490 E ± 7.1km						
			i	38	04.00			PRS	82.83	51	eP	40	03.00	4.3X			DEPTH = 33.0km (normal)						
			PP	41	00.00			IMA	82.90	15	P	39	59.00	0.4			4.6mb (6 obs.)						
			eS	46	04.00			FBA	83.67	18	P	40	02.30	-0.1			MINAHASSA PENINSULA						(265)
			esS	46	20.00				0.7s		14.53nm			5.2mb									
HKC	61.44	303	eP	37	53.30	1.3		CMB	84.15	49	eP	40	09.00	3.5X		MNI	2.37	83	ePd	30	35.20	-0.5
GZH	62.48	304	P	37	59.00	0.1		LBFM	84.20	46	P	40	10.00	4.1X					eS	31	04.50	
NJ2	63.01	315	Pd	38	02.60	0.4		ISA	84.83	52	eP	40	11.00	2.0		DAV	6.66	27	eP	31	36.00	-0.4
	1.0s	100.00nm				5.9mb		SBB	85.04	53	eP	40	14.00	4.0X		MKS	7.00	205	ePd	31	46.50	5.3X
	Z 26s	1.30um				5.0MszX		RVR	85.18	54	eP	40	16.00	5.3X		AAI	7.45	130	ePc	31	49.00	1.5
			S	46	32.00			CLC	85.56	52	eP	40	14.00	1.4					eS	31	56.00	
QIZ	63.66	298	Pc	38	06.00	-0.8		KVN	86.17	49	P	40	17.00	1.3		CGP	7.59	17	eP	31	41.80	-7.6X
	E 23s	2.60um						TPC	86.27	54	eP	40	18.00	1.9			0.5s		4.00nm			4.7mb	
			eS	46	39.00			GLA	86.95	56	eP	40	40.00	20.5X		KKM	7.93	308	ePd	31	54.00	-0.3
MDJ	65.26	332	eP	38	16.50	-0.2		GUN	87.30	299	PKP	40	22.20	0.5			0.5s		107.90nm			6.2mb X	
	Z 32s	1.80um				5.1MszX		PKI	87.62	299	PKP	40	23.30	0.1		MAP	9.24	9	eP	32	12.00	-0.3
WHN	65.39	311	eP	38	18.00	0.2		KKN	87.79	299	PKP	40	23.20	-0.6		PPR	9.35	337	eP	32	12.50	-1.4
	Z 28s	1.30um				5.0MszX		DMN	87.89	299	PKP	40	24.70	0.3		MTN	16.33	149	eP	33	50.10	3.2X
DL2	65.44	323	P	38	18.00	0.0		GKN	88.39	299	PKP	40	25.60	-1.0		IPM	21.70	279	ePc	34	50.40	1.7
	1.2s	80.00nm				5.7mb		WMO	90.09	315	P	40	33.40	-0.8			0.9s		30.40nm			4.7mb	
	Z 22s	1.00um				5.0Msz			2.0s		60.00nm			5.5mb		MBL	22.32	187	eP	34	54.00	-0.7
			eS	47	00.00				Z 26s		1.30um			5.2MszX		SNG	22.61	286	eP	35	06.20	8.5X
CSY	66.10	202	eP	38	32.50	10.7X						pP	40	49.00	54kmX	NST	26.36	304	eP	35	30.20	-3.3X
	0.5s	286.00nm										eS	51	20.00		PMG	26.71	114	eP	35	38.00	1.3
TIA	66.60	318	eP	38	24.70	-0.8		INK	90.23	19	eP	40	37.50	3.3X		MEKA	27.86	188	eP	35	46.00	-1.1
	Z 27s	2.10um				5.2MszX		MSU	90.47	51	P	40	38.80	2.5X		CHTO	29.01	309	eP	36	03.00	5.4X
	E 24s	3.00um						KOD	91.14	280	eP	40	40.60	0.7			0.8s		2.20nm			3.9mb	
CN2	66.67	329	Pc	38	24.80	-1.0		HYB	91.55	287	ePc	40	40.70	-0.6		BAL	32.05	189	eP	36	23.00	-1.3
	1.0s	20.00nm				5.2mb			1.2s		107.10nm			6.1mb			0.6s		27.00nm			5.3mb	
	Z 20s	2.40um				5.4Msz		GBA	91.84	283	Pc	40	41.70	-1.0		BJI	39.14	352	eP	37	24.50	0.0
	N 15s	0.40um							0.9s		27.50nm			5.7mb			1.0s		9.00nm			4.5mb	
	E 15s	0.50um						SES	94.11	39	eP	40	54.00	1.5		BRS	40.66	137	iP	37	37.00	-0.4
			pP	38	34.00	29km		YKA	95.16	27	eP	40	55.80	-1.2		GUN	43.99	311	P	38	05.80	0.8
			eS	47	06.00				0.4s		0.80nm			4.5mb X		PKI	44.18	310	P	38	07.30	0.8
IPM	67.12	280	ePd	38	29.80	0.6		GOL	95.89	51	P	41	08.00	6.8X		KKN	44.38	310	P	38	09.60	1.6
	1.2s	83.70nm				5.7mb			Z 20s		1.75um			5.5Msz		DMN	44.43	310	P	38	09.50	1.1
GYA	69.41	304	P	38	42.80	-0.6		GLD	96.01	51	P	41	09.00	7.3X		GKN	44.98	310	P	38	13.30	0.5
	Z 40s	1.10um				4.8MszX			Z 20s		2.20um			5.6Msz		KOD	45.65	283	eP	38	14.80	-3.5X
			S	47	50.00			POO	96.15	288	iPc	41	03.80	1.3		HYB	46.11	293	eP	38	26.00	4.4X
BJI	69.45	321	eP	38	43.00	-0.2		MBC	97.52	13	eP	41	11.00	3.5X		GBA	46.26	288	Pc	38	21.90	-0.9
	1.1s	50.00nm				5.5mb		ZOBO	119.22	116	PKP	46	24.70	-0.4			0.6s		4.10nm			4.6mb	
	Z 28s	2.75um				5.3MszX			Z 22s		1.19um			5.5Msz		QUE	60.02	304	eP	40	02.90	-1.8
			sP	39	00.00						LR	24	10.00			INK	94.10	21	eP	43	28.00	13.6X
			eS	47	42.00			KAF	122.10	339	ePKP	46	27.40	-1.1			S.D. = 1.2		on 20 of 29 obs.				
LOE	70.23	293	iPc	38	47.50	-0.8		NUR	123.78	338	ePKP	46	31.30	-0.5		---							
TIY	70.55	317	Pc	38	50.00	0.0		SLR	124.93	227	ePKP	46	30.00	-5.3X		?	MAR 21, 1991 19h 19m 12.07± 2.23s						
	1.1s	60.00nm				5.6mb		SIV	125.46	119	PKP	46	35.00	-1.4			15.618 N ±12.8km 118.241 E ±28.5km						
	Z 25s	2.40um				5.4MszX		NB2	127.50	345	PKP	46	38.40	-0.7			DEPTH = 33.0km (normal)						
	N 22s	2.40um							0.7s		1.90nm						4.0mb (2 obs.)						

PHILIPPINE ISLANDS REGION (248)

PGP	3.36	128	eP	20 04.00	0.4
PIP	3.53	40	iPd	20 06.50	0.6
CVP	4.01	58	eP	20 12.00	-0.8
WB2	38.73	155	eP	26 34.10	-1.0
	0.5s	1.10nm		3.9mb	
ASPA	41.94	158	eP	27 02.20	0.7
	0.8s	3.40nm		4.1mb	

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

MAR 21, 1991 19h 30m 06.11± 0.61s
37.664 N ± 6.3km 13.912 E ± 5.4km
DEPTH = 38.3 ± 14.5 km

SICILY (398)

MCT	0.22	262	P	30 13.50	-0.2
			eSg	30 17.20	
GIB	0.34	16	Pc	30 14.20	-0.6
			eSg	30 20.60	
FAI	0.43	206	P	30 16.70	0.9
			eSg	30 21.50	
MNO	0.68	67	P	30 19.60	0.2
			eSg	30 31.00	
MEU	0.99	124	P	30 22.50	-1.2
			eSg	30 36.50	
ERC	1.11	290	P	30 26.20	0.7
			eSg	30 41.20	
USI	1.19	331	Pc	30 26.00	-0.5
			eSg	30 43.40	
MSI	1.41	67	P	30 30.40	0.8
SOI	1.74	76	P	30 35.30	0.9
			eSn	30 56.50	
PTS	1.75	241	P	30 34.00	-0.6
			eSg	30 55.00	
TDS	2.75	43	P	30 49.50	0.6
MGR	2.78	27	P	30 49.20	-0.1
SGO	3.09	20	P	30 54.40	0.9
ORI	3.11	39	P	30 53.50	-0.4
BRT	4.10	38	P	31 06.50	-1.5

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

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* MAR 21, 1991 19h 42m 27.81± 1.37s
35.465 N ±16.4km 27.572 E ± 8.9km
DEPTH = 10.0km (geophysicist)

DODECANESE ISLANDS (369)

ARG	0.87	31	eP	42 44.60	0.0
			eS	42 58.10	
NPS	1.61	263	eP	42 56.90	0.5
			eS	43 20.70	
YER	1.76	19	ePn	42 58.50	-0.1
CIN	2.17	11	eP	43 05.00	0.5
ELL	2.28	55	ePn	43 06.30	0.0
BCK	3.14	50	ePn	43 18.00	-0.3
KHL	3.25	28	ePn	43 20.00	0.0
VLI	3.96	290	eP	43 29.20	-0.6

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

MAR 21, 1991 20h 08m 01.28± 0.11s
20.878 S ± 3.2km 177.930 W ± 2.9km
DEPTH = 527.4km (5 depth phases)
5.2mb (55 obs.)

FIJI ISLANDS REGION (181)

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 28C
Centroid Location:
Origin Time 20:08:11.8 1.0
Lat 20.16S 0.13 Lon 178.10W 0.07
Dep 523.2 4.3 Half-duration 1.7
Moment Tensor; Scale 10**17 Nm
Mrr=-1.02 0.08 Mtt= 0.39 0.17
Mff= 0.63 0.16 Mrt=-0.77 0.12
Mrf=-0.42 0.13 Mtf= 0.58 0.11
Principal Axes:

	Val=	Plg=	Azm=
T	1.39	19	134
N	-0.02	11	228
P	-1.37	67	347

Best Double Couple:Mo=1.4*10**17
NP1:Strike=206 Dip=28 Slip=-115
NP2: 53 65 -78

SVA	4.38	308	iPc	09 24.40	-0.8
			eS	10 32.40	
VUN	4.44	309	iPc	09 24.70	-1.1
SGE	5.10	309	iP	09 32.00	0.4
NDF	5.35	305	iPd	09 32.10	-1.6
PVC	13.36	281	iPd	10 55.50	1.0
BKM	13.44	281	iPd	10 57.00	1.7
DZM	14.60	263	iPc	11 07.90	0.8
			iS	13 42.70	
PUZ	17.45	190	eP	11 37.10	2.1
WLZ	17.81	197	P	11 41.60	3.2X
NOZ	18.02	190	eP	11 41.70	1.3
NGZ	19.07	196	eP	11 51.40	0.7
PGZ	20.29	193	eP	12 01.20	-0.8
MNG	20.46	194	P	12 02.10	-1.5
			eS	15 19.10	
KIW	20.83	195	eP	12 07.10	0.1
MTW	20.97	194	eP	12 07.10	-1.2
CAW	21.03	195	eP	12 08.00	-0.8
MRW	21.23	195	eP	12 09.90	-0.7
WEL	21.27	195	P	12 11.00	0.0
TCW	21.32	196	eP	12 10.60	-0.9
THZ	22.22	198	P	12 20.10	0.4
KHZ	22.64	197	P	12 22.80	-0.7
LTZ	23.34	198	P	12 28.10	-1.7
TVO	27.22	88	eP	13 04.00	-0.5
	0.8s	20.00nm		4.8mb	
BRS	27.47	251	iPc	13 07.80	1.2
COO	28.78	244	iP	13 19.10	1.1
PMO	29.13	83	iP	13 20.60	-0.5
	0.8s	20.00nm		4.8mb	
VAH	29.32	84	iP	13 22.00	-0.7
	0.8s	10.00nm		4.5mb	
TPT	29.40	84	iP	13 22.90	-0.4
	0.8s	25.00nm		4.8mb	
RUV	29.56	84	iP	13 24.30	-0.5
	0.8s	30.00nm		4.9mb	
RMO	30.96	253	eP	13 37.00	0.3
CNB	32.07	236	iPd	13 47.00	0.9
	0.9s	50.00nm		5.1mb	
CTA	33.52	265	iPd	13 59.10	0.8
	0.5s	179.58nm		5.9mb	
			iPcP	16 25.00	
			iS	18 43.00	
CMS	34.06	244	eP	14 04.00	1.3
PMG	35.50	283	iPd	14 14.20	-0.6
	1.0s	100.00nm		5.4mb	
STK	37.69	245	iPd	14 53.80	21.1X
	0.5s	36.80nm			
QIS	39.64	263	iPd	14 48.50	-0.2
	0.5s	17.00nm		4.9mb	
ADE	40.49	240	eP	14 51.00	-4.5X
JAY	44.22	289	ePd	15 24.80	-0.4
	0.7s	29.34nm		4.9mb	
ASPA	44.50	257	iPd	15 27.50	0.2
	1.1s	185.40nm		5.5mb	
Z	18s	0.30um		4.3Msz	
			i	16 59.70	489kmX
			iS	20 52.40	
			iScP	21 23.20	
			iScS	24 29.00	
WB2	44.60	262	iPc	15 27.30	-0.8
	0.6s	131.40nm		5.6mb	
			iPcP	16 59.70	
			i	18 41.40	
			eS	21 22.80	
WRA	44.61	262	P	15 40.00	11.8X
	0.7s	9.70nm			
FORR	49.17	247	eP	16 02.00	-0.7
	0.3s	80.00nm		5.7mb	
GUA	50.03	310	eP	16 08.80	-0.3
	0.6s	357.33nm		6.0mb	
PJG	50.09	310	eP	16 08.90	-0.7
KNA	50.68	266	eP	16 13.30	-0.6
	0.5s	77.00nm		5.4mb	
WARB	50.78	253	eP	16 14.10	-0.5
	0.3s	28.00nm		5.2mb	
MBL	57.74	258	eP	17 03.00	-0.8
	0.5s	124.00nm		5.5mb	
KLB	57.95	245	iPd	17 05.00	-0.1
	0.7s	43.00nm		4.9mb	
NWAO	58.26	244	iPd	17 07.40	0.2
	1.0s	50.00nm		4.8mb	
RKG	58.34	242	eP	17 08.00	0.3
BAL	58.96	246	eP	17 11.70	-0.3
	0.6s	45.00nm		5.0mb	
MUN	59.22	245	eP	17 14.00	0.3
MNI	60.19	284	eP	17 19.00	-1.2
CGP	63.45	291	ePd	17 45.50	4.2X
	1.0s	22.80nm		4.6mb	
PLP	64.51	294	iPd	17 47.00	-1.0
			iS	17 57.50	
MAP	64.95	293	iPc	17 52.00	1.1
	0.5s	5.00nm		4.3mb	
KAKJ	69.23	325	P	18 15.70	-0.9
SPA	69.25	180	iPc	18 18.30	1.7
	1.0s	22.50nm		4.7mb	
PPR	69.28	290	ePd	18 17.00	-0.3
CHJJ	69.76	324	iPd	18 19.00	-0.8
IIDJ	69.95	323	P	18 20.20	-0.8
WKYJ	70.41	320	eP	18 23.60	-0.1
OFUJ	70.62	328	P	18 23.90	-0.9
NIIJ	70.63	325	P	18 24.20	-0.6
YAMJ	70.77	326	P	18 25.30	-0.4
MTMJ	70.81	323	iPd	18 25.40	-0.7
TSRJ	71.10	322	P	18 27.30	-0.3
TKSJ	71.18	319	eP	18 27.80	-0.3
KAGJ	71.35	315	P	18 29.20	0.0
PIP	71.71	299	iPc	18 31.50	0.0
KUMJ	72.25	316	eP	18 34.00	-0.4
KUSJ	72.35	332	P	18 33.90	-0.8
YONJ	72.35	320	eP	18 34.20	-0.7
AOMJ	72.39	328	eP	18 35.30	0.3
HOOJ	72.41	331	P	18 35.10	0.0
SHNJ	73.10	318	P	18 38.30	-0.9
MRRJ	73.47	330	P	18 40.80	-0.3
ASAJ	74.07	332	P	18 45.30	0.8
QZH	76.67	303	Pc	18 59.50	0.2
SDN	77.35	10	P	19 00.70	-1.6
	0.8s	124.14nm		5.4mb	
BLP	77.63	45	P	19 05.30	1.1
SYP	77.89	46	eP	19 07.00	1.2
SSE	77.98	310	Pc	19 06.00	-0.2
	1.0s	25.00nm		4.6mb	
PRS	78.04	44	ePd	19 06.90	0.5
GCC	78.07	43	eP	19 07.30	0.8
PCC	78.11	42	eP	19 06.80	0.1
BCH	78.20	45	P	19 08.50	1.0
SAO	78.26	43	eP	19 08.30	0.7
PRI	78.39	44	eP	19 09.50	1.1
BRK	78.42	42	eP	19 09.00	0.7
BKS	78.44	42	eP	19 09.20	0.7
	1.0s	300.00nm		5.7mb	
MHC	78.48	43	eP	19 09.70	0.8
ARN	78.56	43	P	19 10.40	1.2
ABL	78.58	46	P	19 10.50	0.9
HKC	78.92	299	iP	19 12.70	1.4
MWC	79.01	47	eP	19 13.00	1.2
RVR	79.35	47	eP	19 13.00	-0.3
PLM	79.35	48	eP	19 14.00	0.4
SBB	79.43	47	eP	19 14.00	0.1
PEC	79.44	48	P	19 14.50	0.6
FRI	79.51	44	ePd	19 14.30	0.2
ISA	79.55	45	eP	19 14.00	-0.4
CMB	79.69	43	iPd	19 15.30	0.2
ORV	79.92	41	ePd	19 16.30	0.1
WDC	79.92	40	iPd	19 16.40	0.2
GZH	79.96	299	Pd	19 18.20	1.5
NJ2	80.17	310	Pd	19 18.80	1.2
	1.0s	100.00nm		5.2mb	
KGM	80.22	276	eP	19 20.00	1.7
CLC	80.22	46	eP	19 18.00	0.1
TPC	80.33	48	eP	19 19.00	0.5
GLA	80.62	49	eP	19 21.00	1.0
LBFM	80.78	39	P	19 21.70	0.8
MDJ	80.86	325	iPd	19 21.00	0.1
	1.0s	100.00nm		5.3mb	
BONR	80.98	44	P	19 22.70	0.6
KVN	81.74	43	P	19 26.00	0.2
TNP	81.75	44	P	19 26.50	0.6
	1.0s	75.00nm		5.2mb	
DL2	82.05	317	eP	19 26.80	-0.3
	1.4s	170.00nm		5.4mb	
SNY	82.54	320	Pd	19 29.40	0.0
	1.0s	40.00nm		4.9mb	
CN2	82.64	322	Pd	19 29.60	-0.3
	4.0s	500.00nm		5.4mb X	
			pP	21 24.00	522km
WHN	82.72	306	Pc	19 32.50	1.9
	1.0s	30.00nm		4.8mb	
BMW	83.26	35	P	19 33.60	0.5
IPM	83.28	277	ePd	19 37.00	3.2X
	0.8s	93.30nm		5.4mb	
SHW	83.61	35	P	19 36.10	1.2
GMW	84.18	34	P	19 37.70	0.2
LON	84.19	35	P	19 38.00	0.3
PGC	84.54	33	ePc	19 39.60	0.4
SNG	84.61	280	eP	19 41.60	1.3

21d 20h

RMW	84.64	34	P	19	40.00	0.1	MUD	144.08	353	iPKPc	26	36.50	-1.1	FUR	151.78	347	ePKPc	26	50.00	0.0
MCW	84.87	33	P	19	41.90	0.9		0.9s		98.00nm							e	26	56.90	
TTA	85.30	10	P	19	42.30	-0.5	EDU	144.18	5	iPKPc	26	37.50	-0.3				e	27	08.20	
	0.8s	27.59nm			5.0mb			1.0s	225.00nm					RZN	151.78	322	iPKPd	26	57.00	6.6X
MSU	85.32	46	P	19	43.00	-0.6	ELO	144.20	5	iPKPc	26	37.50	-0.4	EZN	151.96	318	iPKP	26	56.50	6.1X
PMR	85.37	13	P	19	41.70	-1.3		1.0s	92.00nm					FLN	152.10	4	ePKP	26	50.20	-0.2
	0.8s	34.48nm			5.1mb		EAB	144.42	6	iPKPc	26	38.30	0.1		1.3s	57.75nm				
KLU	86.01	15	P	19	45.60	-0.6		1.1s	75.00nm					CDF	152.21	353	ePKP	26	50.60	-0.1
BJI	86.20	315	eP	19	48.00	0.5	EBH	144.44	5	iPKPc	26	38.40	0.2		1.3s	28.90nm				
	1.5s	97.00nm			5.3mb			0.9s	157.00nm					LDF	152.29	3	ePKP	26	50.50	-0.2
TOA	86.48	14	P	19	48.50	0.0	BSD	144.47	347	iPKP	26	37.30	-1.0		1.2s	23.80nm				
	1.0s	100.00nm			5.5mb			0.8s	147.00nm					KBA	152.30	343	iPKPc	26	49.90	-1.1
DPW	86.82	36	P	19	50.80	0.4	EDI	144.78	5	iPKPc	26	39.40	0.6		0.9s	26.30nm				
GYA	86.89	300	P	19	52.20	0.9	EAU	144.84	5	iPKPc	26	39.90	1.0				i	26	57.50	
PNT	86.93	34	ePd	19	50.00	-0.8		0.7s	77.00nm								i	27	09.10	
	1.0s	91.00nm			5.5mb		KVT	144.90	313	ePKP	26	40.00	0.4				i	27	10.90	
TIY	87.58	312	Pd	19	55.00	0.8	EBL	144.95	5	iPKPc	26	40.00	0.9	MMB	152.40	323	ePKPc	26	58.00	6.9X
	1.4s	80.00nm			5.3mb			1.1s	64.00nm					GRR	152.45	4	ePKP	26	50.80	-0.1
ALO	87.59	51	eP	19	54.30	-0.2	EKA	145.37	5	PKPd	26	39.60	-0.2	LPF	152.79	5	ePKP	26	51.80	0.4
	0.9s	21.01nm			4.9mb			0.9s	31.00nm						1.3s	28.90nm				
		e		21	52.00	532km	KAS	146.32	315	iPKPd	26	44.90	3.0X	FVI	152.90	344	PKP	26	58.40	6.9X
ANMO	87.59	51	iP	19	55.40	0.9	ETA	147.60	9	ePKP	26	46.10	2.6X	LJU	152.90	341	ePKP	26	51.50	-0.1
	1.0s	27.50nm			5.0mb		KRA	147.62	338	iPKPd	26	46.60	3.0X	VOY	153.10	342	ePKP	26	51.60	-0.4
		epP		21	53.00	532km				e	26	50.90		VBY	153.15	339	ePKP	26	51.80	-0.2
NEW	87.64	36	P	19	53.80	-0.4	BHL	147.63	301	PKP	26	48.50	4.2X				i	27	00.30	
	1.0s	32.50nm			5.1mb		BBTK	147.70	313	ePKP	26	44.00	-0.3	CEY	153.21	341	ePKP	26	52.00	-0.1
NST	88.21	287	iPc	19	50.80	-6.6X	HRI	147.72	300	ePKP	26	54.00	9.5X	VAY	153.23	324	ePKP	26	50.60	-1.6
XAN	88.41	307	Pd	19	58.90	0.8	ECB	147.83	10	ePKP	26	47.00	3.1X				iP'P'	26	59.30	
	1.0s	70.00nm			5.5mb		VRI	147.92	327	ePKPc	26	46.00	1.7				i	27	14.40	
FBA	88.59	12	iP	19	56.50	-1.7	WIT	147.92	355	ePKP	26	50.00	6.0X	SKO	153.37	327	iPKP	26	51.80	-0.6
	1.0s	50.00nm			5.3mb		KSP	148.07	343	ePKP	26	43.50	-0.8				iP'P'	27	00.50	
		epP		21	53.00	524km		1.0s	123.00nm					LOR	153.63	357	ePKP	26	52.70	0.1
IMA	88.60	10	P	19	57.60	-0.8				id	26	48.00			0.9s	7.35nm				
	1.0s	26.25nm			5.1mb					e	28	53.00		CTI	153.69	345	PKP	27	12.60	19.8X
LRM	88.96	40	ePd	20	00.90	0.3	ECP	148.07	10	ePKP	26	47.30	3.1X	SSF	153.85	358	ePKP	26	53.00	0.1
BW06	89.20	43	P	20	04.20	2.4		1.0s	156.00nm						1.1s	15.85nm				
	1.0s	40.00nm			5.3mb		SPC	148.24	337	ePKP	26	43.30	-1.6	LBF	153.91	357	ePKP	26	53.10	0.1
KMI	89.58	297	Pc	20	06.00	2.1				e	26	48.40			1.3s	14.45nm				
	1.0s	50.00nm			5.4mb					e	28	57.70		OHR	154.32	326	ePKP	26	51.70	-2.1
HHC	89.66	314	eP	20	03.50	-0.3	DSI	148.39	297	ePKP	26	55.50	10.1X		1.1s	60.00nm				
BDT	89.80	288	eP	20	06.90	2.2	CLL	148.44	347	iPKP	26	44.80	-0.1				iP'P'	27	02.50	
	0.9s	72.00nm			5.6mb			1.0s	155.00nm								i	27	19.20	
CHG	90.43	290	ePc	20	09.00	1.4				i	26	48.70		BGF	154.38	359	ePKP	26	53.90	0.3
	0.9s	48.32nm			5.5mb					pPKP	28	54.00		TCF	154.65	360	ePKP	26	54.00	0.0
		e		22	17.00	588kmX	ISR	148.50	326	ePKP	26	50.00	4.7X		1.2s	19.85nm				
GOL	90.52	47	P	20	08.20	0.2	MLR	148.58	327	ePKP	26	46.00	0.5	LSF	154.69	1	ePKP	26	53.80	-0.2
	1.0s	13.75nm			4.9mb		BRG	148.64	345	iPKP	26	45.40	0.2		1.3s	18.05nm				
BTO	90.59	314	eP	20	08.50	0.5				i	26	49.60		LPL	155.13	352	ePKP	26	55.30	0.4
GLD	90.65	47	eP	20	09.20	0.7				i	26	54.80			1.0s	6.00nm				
CD2	91.05	303	P	20	11.60	1.3				ipPKP	28	54.00		LPG	155.14	352	ePKP	26	55.60	0.5
SES	92.14	36	ePd	20	14.60	-0.3	WTS	148.72	354	ePKP	26	45.00	-0.2		1.7s	36.75nm				
	0.7s	47.00nm			5.6mb		CMP	149.19	327	ePKPc	26	53.00	6.7X	RJF	155.63	1	ePKP	26	55.50	0.1
EDM	92.39	33	eP	20	15.50	-0.4	RMN	149.23	295	ePKP	26	57.00	10.1X		1.2s	17.85nm				
LZH	93.05	307	Pd	20	19.60	0.0	PRU	149.31	344	ePKP	26	45.50	-0.7	FIR	155.91	344	ePKP	26	51.00	-4.7X
	1.5s	37.00nm			5.2mb			0.9s	55.90nm					SBF	156.65	350	ePKP	26	56.70	-0.1
RSSD	93.38	44	iP	20	20.50	-0.5				i	26	51.50			0.9s	13.10nm				
	1.0s	59.65nm			5.6mb		MOX	149.35	348	ePKP	26	46.50	0.2	BCAO	157.12	227	iPKPc	26	58.40	0.2
		epP		22	18.00	527km				i	26	51.50			0.5s	18.00nm				
INK	94.62	15	ePd	20	24.70	-1.1	PSZ	149.43	336	iPKP	26	51.30	4.7X				ic	27	33.10	
YKA	96.83	25	eP	20	33.90	-1.9	YLV	149.60	316	iPKP	26	50.40	3.3X				id	29	31.00	
	0.8s	2.40nm			4.6mb		ENN	150.02	355	ePKP	26	47.00	-0.2	PGF	157.62	346	ePKP	26	57.80	-0.2
GTA	97.26	309	eP	20	38.60	0.1	SRO	150.10	338	iPKP	26	53.40	5.9X		0.9s	13.10nm				
	1.2s	10.00nm			5.0mb		MEM	150.17	355	PKPd	26	53.30	5.9X	TDS	157.64	330	PKP	26	57.00	-1.0
GUN	104.73	295	Pdiff	21	16.20	3.7X	ZST	150.18	340	ePKP	26	48.30	0.7	LIC	163.89	154	PKPc	27	05.74	0.6
PKI	105.03	294	PKP	25	24.00	-1.5				i	26	53.50		KIC	164.13	154	PKP	27	05.88	0.5
KKN	105.20	294	Pdiff	21	15.20	0.8				e	29	00.60			0.9s	20.00nm				
KKN	105.20	294	PKP	25	24.80	-0.9	BCK	150.27	310	iPKP	26	52.80	4.6X	TIC	164.27	153	PKP	27	06.08	0.6
DMN	105.30	294	PKP	25	24.60	-1.3	GRF	150.34	348	ePKP	26	46.60	-1.2	LKO	166.53	146	PKPc	27	07.50	0.1
GKN	105.81	294	Pdiff	21	17.40	0.4				id	26	54.20			1.0s	25.00nm				
GKN	105.81	294	PKP	25	25.00	-1.7				e	27	02.30			S.D. = 0.9 on 230 of 272 obs.					
FRB	117.09	28	ePKP	25	45.50	-1.3	KHC	150.35	345	iPKPc	26	48.00	0.1	----------						
QUE	121.40	293	ePKP	25	56.60	0.2		1.0s	32.00nm						MAR 21, 1991 20h 42m 20.30± 1.09s					
DAG	123.10	6	ePKP	25	56.10	-1.9				i	26	53.80			17.022 N ± 6.8km 60.865 W ± 9.4km					
PDCR	127.65	126	ePKP	26	07.70	-0.9				i	27	02.50			DEPTH = 10.0km (geophysicist)					
SOB1	128.26	121	ePKP	26	09.80	0.0	VKA	150.37	341	e(PKP)	26	48.00	0.1		3.8mb (1 obs.)					
KEV	128.85	349	ePKP	26	08.00	-1.2				i	26	54.30			LEEWARD ISLANDS					(92)
		e		28	51.00		PVL	150.43	324	ePKP	26	48.00	-0.1		ML 3.6 (FDF).					
SOD	130.98	348	ePKP	26	11.00	-2.4	WET	150.50	346	iPKPc	26	48.10	0.0							
		i		28	50.00		BZS	150.56	331	ePKP	26	47.50	-0.7	DEG	0.73	195	ePd	42	34.84	0.2
KAF	135.53	344	ePKP	26	18.70	-3.4X	DST	150.59	315	ePKP	26	53.00	4.4X				S	42	44.20	
NUR	137.32	344	iPKP	26	16.50	-9.1X	ABH	150.73	353	ePKP	26	48.27	-0.2	SFG	0.83	203	ePd	42	36.51	0.2
	1.0s	40.00nm					DOU	150.77	357	PKPc	26	54.80	6.4X				S	42	46.30	
		i		26	24.60		KGT	150.98	318	ePKP	26	54.50	5.5X	SEG	0.87	225	iPd	42	36.93	-0.1
NB2	139.36	353	PKP	26	19.70	-9.6X	UZD	151.03	336	e(PKP)	26	55.00	6.1X				S	42	48.30	
	0.7s	5.10nm					ELL	151.07	309	iPKP	26	55.80	6.3X	BPA	0.95	272	eP	42	38.87	0.5
HFS	139.92	351	ePKP	26	21.00	-9.3X	KDZ	151.40	322	iPKPc	26	56.00	6.3X				eS	42	51.48	
	0.4s	5.60nm					PGB	151.52	324	iPKPc	26	57.00	7.1X	MGG	1.18	202	ePd	42	41.83	-0.5

		S	42 56.00		
DOG	1.22	216 ePd	42 42.46	-0.6	
		S	42 56.70		
PAG	1.26	219 ePd	42 42.83	-0.9	
		S	42 58.00		
BBL	1.60	202 ePd	42 47.93	-0.8	
		S	43 07.60		
MDN	1.77	197 eP	42 51.62	0.4	
		eS	43 19.07		
SKI	1.82	280 eP	42 52.88	1.0	
		eS	43 13.49		
FDF	2.29	187 eP	42 57.86	-0.9	
		S	43 25.40		
MVM	2.45	181 eP	43 00.92	-0.1	
		S	43 30.20		
SLB	3.18	183 eP	43 12.31	0.9	
		eS	43 54.65		
SVV	3.70	185 eP	43 19.39	0.6	
		eS	44 06.68		
FCV	3.86	186 eP	43 22.26	1.2	
YKA	58.64	334 eP	52 18.70	-1.1	
	0.5s	0.40nm		3.8mb	
	S.D. = 0.8	on 16 of 16 obs.			

? MAR 21, 1991 22h 26m 22.65± 5.78s
51.339 N ±36.9km 16.101 E ±35.7km
DEPTH = 10.0km (geophysicist)
POLAND (548)
ML 3.1 (VKA).

KSP	0.51	166 iP	26 33.00	0.0	
		iS	26 43.00		
BRG	1.44	252 iPg	26 28.80	-19.9X	
		iSg	27 08.00		
PRU	1.68	217 ePg	26 54.00	1.8	
	0.5s	23.80nm			
		e	26 59.00		
		eSg	27 17.50		
CLL	1.94	270 e(Pg)	26 56.00	0.0	
		eSg	27 22.00		
KHC	2.74	217 ePn	27 06.00	-1.5	
		ePg	27 14.00		
		eSn	27 40.00		
		eSg	27 51.00		
MOX	2.92	258 ePg	27 16.50	6.6X	
		iSg	27 55.00		
WET	3.02	225 ePn	27 10.80	-0.5	
VKA	3.08	177 ePg	27 21.00	8.8X	
		eSg	28 05.50		
GRC3	3.80	232 e(Pg)	27 33.40	10.9X	
		e(Sg)	28 23.30		
KBA	4.63	204 e(Pn)	27 34.50	0.1	
		e(Sg)	28 54.00		
	S.D. = 1.4	on 6 of 10 obs.			

MAR 21, 1991 22h 27m 13.97± 0.85s
44.665 N ± 4.5km 6.822 E ± 8.1km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.1 (GEN).

FOUF	0.14	192 iPgc	27 17.34	0.1	
		e(Sg)	27 18.29		
PZZ	0.26	129 P	27 19.86	0.4	
		S	27 23.74		
RRL	0.26	354 P	27 19.74	0.2	
		S	27 23.54		
BHB	0.36	61 P	27 21.72	0.3	
		S	27 26.85		
STV	0.55	139 P	27 24.85	-0.4	
		S	27 32.38		
RSP	0.58	32 P	27 25.18	-0.6	
		S	27 33.38		
ENR	0.61	135 P	27 26.18	-0.2	
		S	27 34.31		
ROB	0.84	116 P	27 30.31	0.1	
	S.D. = 0.4	on 8 of 8 obs.			

MAR 21, 1991 22h 35m 36.02± 0.52s
39.299 N ± 4.8km 29.176 E ± 4.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

DST	0.52	306 iPg	35 46.10	-0.5	
		eSg	35 54.00		
ALT	0.77	108 iPg	35 50.90	-0.1	
KHL	1.01	164 iPn	35 55.30	0.1	
KCT	1.14	327 ePn	35 58.40	1.0	
YLV	1.28	7 iPn	35 59.40	-0.3	
GPA	1.32	41 ePn	36 00.70	0.3	
BNT	1.43	318 iPn	36 01.20	-0.8	
EDC	1.45	316 ePn	36 02.50	0.2	
GBZT	1.50	8 ePn	36 06.60	3.6X	
		iSg	36 27.50		
HRT	1.57	14 ePn	36 04.20	0.2	
IZM	1.74	240 ePn	36 06.50	-0.1	
KGT	1.84	309 ePn	36 08.90	1.0	
CTT	1.93	343 ePn	36 08.40	-0.8	
DMK	2.74	337 ePn	36 27.00	6.2X	
	S.D. = 0.7	on 12 of 14 obs.			

MAR 21, 1991 22h 57m 28.43± 0.80s
45.456 N ±10.1km 7.561 E ± 6.2km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.3 (LDG).

ORO	0.34	60 P	57 34.10	-1.4	
		eSg	57 40.80		
LPG	0.57	274 Pg	57 39.30	-0.9	
		Sg	57 47.10		
LPL	0.59	276 Pg	57 39.50	-1.0	
		Sg	57 48.00		
BNI	0.74	238 P	57 41.70	-1.4	
		eSg	57 51.50		
VAI	0.94	64 P	57 46.80	0.4	
		eSg	57 59.10		
SBF	1.60	183 Pg	57 58.20	1.4	
		Sg	58 18.10		
FRF	2.00	199 Pg	58 05.80	3.1X	
SMF	2.85	296 Pn	58 15.60	0.8	
LOR	3.14	307 Pn	58 20.40	1.5	
BGF	3.47	290 Pn	58 24.00	0.5	
	S.D. = 1.4	on 9 of 10 obs.			

MAR 21, 1991 23h 18m 26.79± 0.91s
39.744 N ± 6.6km 22.225 E ± 9.1km
DEPTH = 5.0km (geophysicist)
GREECE (364)
MD 2.2 (THE).

LIT	0.41	30 ePc	18 34.72	-0.3	
		eS	18 42.92		
AGG	0.73	174 iPc	18 41.00	-0.3	
PAIG	1.14	80 ePc	18 48.36	-0.1	
		eS	19 05.08		
GRG	1.22	6 ePd	18 49.20	-0.8	
		eS	19 09.40		
FNA	1.23	328 iPc	18 48.50	-1.6	
		iS	19 07.30		
SOH	1.38	38 iPc	18 53.50	0.8	
		iS	19 13.50		
KNT	1.51	20 ePd	18 54.96	0.5	
		iS	19 17.36		
OHR	1.75	322 e(Pn)	18 59.80	1.8	
	S.D. = 1.2	on 8 of 8 obs.			

• MAR 22, 1991 01h 01m 49.92± 1.05s
19.876 S ±10.9km 68.910 W ±16.0km
DEPTH = 124.2 ± 13.2 km
3.8mb (1 obs.)
CHILE-BOLIVIA BORDER REGION (124)

CNCB	3.18	16 iPd	02 41.00	1.1	
		S	03 20.00		
LPB	3.41	13 iPd	02 42.30	-0.7	
	1.0s	400.00nm			
CCH	3.61	47 P	02 46.60	1.1	
ZOBO	3.66	12 iPd	02 46.50	0.0	
		eS	03 30.00		
ANT	4.06	200 eP	02 51.00	-0.2	
ARE	4.19	324 eP	02 48.00	-5.3X	
		iS	03 33.60		
SIV	8.40	64 P	03 48.00	-2.3	
VAO	20.66	103 eP	06 22.80	1.1	
KIC	68.26	74 P	12 40.20	0.5	
YKA	89.66	341 eP	14 33.90	-0.6	
	0.6s	0.50nm		3.8mb	
	S.D. = 1.4	on 9 of 10 obs.			

MAR 22, 1991 01h 34m 47.58± 0.32s
41.078 N ± 3.6km 19.998 E ± 3.3km
DEPTH = 10.0km (geophysicist)
ALBANIA (391)
MD 3.1 (ATH), 2.8 (THE).

TIR	0.29	340 iPgd	34 52.70	-0.9	
LACI	0.60	339 iPgc	34 59.00	-0.7	
OHR	0.61	87 iPgd	34 58.20	-1.7	
		iSg	35 06.50		
		LR	35 12.10		
LSK	1.03	153 ePn	35 07.70	0.5	
ULC	1.05	328 iPgc	35 07.70	0.3	
		iSg	35 27.21		
FNA	1.08	105 iPc	35 06.90	-1.1	
		iS	35 25.00		
KEK	1.37	186 ePn	35 15.40	2.7X	
		eSn	35 36.90		
SKO	1.40	50 ePn	35 13.10	-0.1	
		iSn	35 31.60		
TTG	1.46	338 iPnd	35 14.26	0.3	
		iSn	35 37.29		
BDV	1.49	324 iPnc	35 15.26	0.9	
		iSn	35 37.77		
PVY	1.52	359 iPnc	35 14.99	0.1	
		iSn	35 39.37		
KZN	1.55	119 ePn	35 16.10	0.7	
IGT	1.56	170 ePd	35 17.00	1.5	
		eS	35 43.24		
LCI	1.72	245 P	35 17.50	-0.2	
		eSn	35 37.00		
HCY	1.77	321 iPnc	35 18.54	0.1	
		iSn	35 45.29		
IVA	1.79	358 iPnd	35 19.87	1.0	
		iSn	35 46.54		
GRG	1.82	93 ePc	35 18.84	-0.4	
		eS	35 46.68		
NKY	1.89	337 iPnc	35 20.79	0.6	
		iSn	35 48.57		
VAY	1.96	82 ePn	35 20.30	-0.8	
BRY	2.12	330 ePn	35 24.29	0.7	
		iSn	35 53.67		
BRT	2.13	266 P	35 28.50	4.9X	
		eSn	35 49.00		
LIT	2.13	116 ePd	35 25.88	2.1	
		eS	36 01.44		
KNT	2.19	87 ePd	35 25.20	0.6	
		eS	35 51.88		
THE	2.29	100 ePc	35 26.68	0.7	
		eS	35 56.64		
PLE	2.29	349 iPnc	35 25.96	-0.2	
		iSn	35 58.46		
SOH	2.55	95 iPc	35 30.30	0.5	
		iS	36 04.20		
SRS	2.72	88 ePd	35 31.44	-0.6	
		eS	36 05.80		
ORI	2.89	251 P	35 34.40	-0.1	
VLS	2.93	171 ePn	35 34.00	-1.1	
PAIG	3.03	111 iPd	35 35.48	-1.0	
MGR	3.51	256 P	35 43.20	-0.1	
SGO	3.60	263 P	35 42.60	-1.9	
	S.D. = 0.9	on 30 of 32 obs.			

? MAR 22, 1991 03h 29m 06.39± 0.97s
40.652 N ±12.8km 29.056 E ± 6.4km
DEPTH = 5.0km (geophysicist)
TURKEY (366)

YLV	0.26	109 iPg	29 11.70	0.1	
		iSg	29 14.20		
HRT	0.49	70 iPg	29 16.20	-0.1	
		iSg	29 23.70		
CTT	0.69	316 iPg	29 20.20	0.1	
KGT	1.35	262 ePn	29 31.70	-0.1	
	S.D. = 0.2	on 4 of 4 obs.			

MAR 22, 1991 03h 29m 32.91± 0.34s
1.163 N ± 5.3km 122.561 E ± 7.6km
DEPTH = 33.0km (normol)
5.1mb (11 obs.) 4.5Msz (1 obs.)
MINAHASSA PENINSULA (265)

CGP	7.55	16 eP	31 23.00	-0.5	
KKM	7.98	308 iPd	31 28.50	-1.1	
PPR	9.37	336 ePd	31 47.00	-1.7	
IPM	21.77	279 ePd	34 24.60	0.7	
	0.8s	21.40nm		4.6mb	
MBL	22.34	187 eP	34 29.10	-0.5	
SNG	22.68	286 eP	34 34.60	1.7	
PSI	23.67	274 eP	34 45.00	2.4	
WB2	23.95	152 iPd	34 46.00	0.7	

22d 03h

0.6s 91.70nm 5.5mb
iS 46 54.00
PMG 26.65 114 eP 35 11.00 0.2
ASPA 27.03 157 iPd 35 14.50 0.3
eSKS 46 58.10
OIS 27.29 143 iPc 35 17.00 0.4
0.5s 27.00nm 5.2mb
WARB 27.47 172 eP 35 18.00 -0.2
MEKA 27.89 188 iPd 35 20.90 -1.0
0.3s 15.00nm 5.2mb
CHG 29.05 309 eP 35 37.00 4.4X
GYA 29.43 330 eP 35 36.80 0.8
BAL 32.08 190 iPc 35 57.50 -1.7
0.6s 23.00nm 5.3mb
FORR 32.27 171 eP 35 59.50 -1.3
KLB 32.89 188 eP 36 05.00 -1.2
0.4s 10.00nm 5.1mb
MUN 33.51 190 eP 36 08.00 -3.6X
CD2 34.54 331 P 36 20.20 -0.3
STK 37.49 153 iPc 37 06.10 20.7X
0.8s 17.20nm
TIY 37.55 347 eP 36 46.20 0.2
Z 20s 0.70um 4.5Msz
ADE 38.99 159 eP 36 59.70 1.6
BJI 39.13 352 eP 36 59.00 -0.1
SNY 40.49 1 eP 37 09.80 -0.5
BRS 40.63 137 iPc 37 12.60 0.9
e(S) 41 45.00
GTA 43.36 334 eP 37 35.00 1.0
1.0s 10.00nm 4.5mb
GUN 44.03 310 P 37 40.60 0.7
0.8s 23.00nm 5.0mb
PKI 44.22 310 P 37 41.60 0.2
KKN 44.43 310 P 37 43.20 0.2
DMN 44.47 310 P 37 43.20 -0.2
GKN 45.03 310 P 37 47.80 0.1
0.6s 14.00nm 5.0mb
KOD 45.71 283 eP 37 52.60 -0.8
HYB 46.17 293 eP 37 56.50 -0.2
0.8s 19.20nm 5.1mb
GBA 46.32 288 Pc 37 56.60 -1.3
0.5s 4.10nm 4.6mb
S.D. = 1.0 on 32 of 35 obs.

MAR 22, 1991 03h 53m 00.96± 0.68s
41.071 N ± 7.2km 19.974 E ± 6.3km
DEPTH = 10.0km (geophysicist)
ALBANIA (391)
MG 2.6 (TIR).

TIR 0.29 344 iPgc 53 06.50 -0.5
LACI 0.60 341 iPgc 53 12.40 -0.6
LSK 1.04 152 ePn 53 19.60 -1.0
FNA 1.10 105 iP 53 20.00 -1.7
SKO 1.42 50 iPn 53 27.20 0.4
iSn 53 44.00
LCI 1.70 245 P 53 31.80 1.0
eSn 53 48.80
VAY 1.98 82 ePn 53 38.00 3.2X
BRT 2.11 266 P 53 36.60 -0.1
KNT 2.21 87 eP 53 39.20 1.0
SOH 2.57 94 iP 53 45.00 1.6
S.D. = 1.2 on 9 of 10 obs.

% MAR 22, 1991 04h 44m 26.66± 1.24s
40.819 N ± 7.1km 26.870 E ± 9.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

KGT 0.49 138 iPg 44 36.20 -0.5
EDC 0.89 122 ePn 44 44.00 0.2
BNT 0.92 120 ePn 44 43.60 -0.7
EZN 1.08 203 ePn 44 46.90 0.0
DMK 1.20 33 iPn 44 48.70 -0.4
CTT 1.23 74 ePn 44 50.00 0.5
DST 1.81 131 ePn 44 59.00 0.8
S.D. = 0.7 on 7 of 7 obs.

MAR 22, 1991 04h 58m 42.16± 1.01s
9.683 N ± 6.5km 84.452 W ± 4.9km
DEPTH = 44.6 ± 9.1 km
4.9mb (46 obs.) 4.6Msz (6 obs.)
COSTA RICA (78)
Felt.

UPA 4.90 98 iPc 59 56.50 1.2
S 28 52.00

OXX 14.02 303 (P) 02 01.00 0.7
IISM 15.56 308 (P) 02 20.00 -0.2
IIT 16.31 306 (P) 02 25.00 -5.0X
PPM 16.59 306 (P) 02 34.00 0.2
III 16.93 302 (P) 02 37.00 -0.8
CRX 17.61 305 (P) 02 52.00 5.6X
RSCP 25.82 358 iP 04 10.50 -0.6
0.9s 69.70nm 5.2mb
UYO 26.04 341 iPc 04 13.00 -0.1
BLA 27.65 7 eP 04 28.20 0.4
1.0s 8.00nm 4.3mb
TUL 28.07 340 eP 04 28.10 -3.5X
0.8s 7.70nm 4.4mb
Z 20s 0.36um 4.0Msz
e 09 39.70
LR 12 57.10
FVM 28.69 350 iP 04 34.00 -3.1X
1.0s 9.00nm 4.4mb
ZOBO 30.43 148 P 04 53.50 0.0
Z 22s 0.58um 4.2Msz
S 10 10.00
LR 16 30.00
LPB 30.66 148 P 05 02.00 6.6X
CNCB 30.96 148 P 05 04.00 5.9X
ALQ 32.19 325 eP 05 06.70 -1.8
0.9s 7.98nm 4.6mb
CCH 32.41 146 eP 05 18.00 7.4X
SIV 34.45 138 P 05 27.00 -0.9
GOL 35.23 331 iP 05 33.90 -0.8
1.0s 12.50nm 4.8mb
RSNY 35.78 12 eP 05 38.00 -1.0
PV09 36.24 326 eP 05 42.10 -1.2
GLA 36.38 314 eP 05 45.00 0.7
GAC 36.71 11 eP 05 46.50 -0.2
TPC 37.81 315 eP 05 57.00 0.8
PLM 37.99 313 eP 06 01.00 3.1X
RSSD 38.29 337 iP 06 01.90 1.6
0.9s 5.58nm 4.4mb
PEC 38.48 314 eP 06 02.30 0.4
SBB 39.36 314 eP 06 10.00 0.7
BW06 39.61 331 eP 06 10.00 -1.4
1.0s 5.00nm 4.3mb
CLC 39.80 316 eP 06 13.00 0.2
TNP 40.81 319 iP 06 21.00 -0.3
1.0s 20.25nm 4.8mb
FRI 41.86 316 eP 06 29.80 0.1
LLA 42.53 315 eP 06 35.50 0.3
CMB 42.87 317 eP 06 38.90 0.9
ORV 44.41 318 eP 06 51.40 1.0
PPD 45.28 134 eP 06 56.40 -1.1
FFC 47.04 346 eP 07 10.00 -1.0
0.6s 5.00nm 4.6mb
SOB1 47.25 112 (P) 07 13.00 -0.2
VAO 49.01 132 eP 07 25.60 -1.2
PNT 49.17 330 eP 07 28.00 0.3
PDCR 50.15 115 eP 07 34.00 -1.6
FRB 55.15 9 eP 08 09.00 -3.2X
YKA 57.06 344 eP 08 21.30 -4.6X
0.9s 1.90nm 4.1mb
INK 66.72 342 eP 09 28.00 -2.5X
MBC 69.16 352 ePd 09 43.50 -2.1
1.0s 13.00nm 4.9mb
FBA 70.13 336 eP 09 51.60 -0.1
AVE 73.95 58 iP 10 16.00 1.0
IFR 75.85 58 iP 10 27.00 0.8
i 10 36.00
EKA 77.15 35 P 10 31.00 -1.7
0.8s 6.50nm 4.7mb
LKO 77.56 82 Pc 10 36.46 0.6
0.9s 28.00nm 5.3mb
LPF 78.48 43 eP 10 39.80 -0.3
1.4s 43.55nm 5.3mb
TIC 78.53 85 Pc 10 41.88 0.7
0.9s 16.50nm 5.0mb
LIC 78.59 86 P 10 42.28 0.8
0.9s 23.50nm 5.2mb
GRR 78.59 43 eP 10 40.60 -0.2
0.9s 22.95nm 5.2mb
FLN 78.82 42 eP 10 41.90 -0.2
1.1s 31.75nm 5.2mb
Z 21s 0.43um 4.8Msz
KIC 78.85 85 Pc 10 43.74 0.9
0.9s 21.50nm 5.1mb
LDF 79.07 42 eP 10 43.40 0.0
0.8s 13.45nm 4.9mb
MFF 79.14 44 eP 10 43.70 -0.1
1.0s 16.00nm 4.9mb

EPF 79.67 48 eP 10 47.40 0.5
1.1s 14.65nm 4.8mb
LFF 79.84 46 eP 10 47.80 0.1
1.3s 21.65nm 4.9mb
LPO 80.18 46 eP 10 49.40 -0.1
1.2s 35.70nm 5.2mb
RJF 80.37 46 eP 10 50.30 -0.2
1.1s 19.55nm 5.0mb
Z 21s 0.32um 4.7Msz
TCF 80.78 45 eP 10 52.00 -0.7
0.7s 7.70nm 4.8mb
CAF 80.78 46 eP 10 52.60 -0.1
1.0s 11.00nm 4.8mb
MAF 81.03 45 eP 10 53.50 -0.5
0.9s 6.55nm 4.6mb
BGF 81.20 44 eP 10 54.40 -0.4
1.0s 18.00nm 5.0mb
AVF 81.53 44 eP 10 55.70 -0.8
0.9s 8.20nm 4.7mb
SSF 81.61 44 eP 10 56.20 -0.7
0.8s 5.35nm 4.6mb
LOR 81.83 43 eP 10 57.30 -0.8
0.9s 12.30nm 4.9mb
Z 20s 0.45um 4.8Msz
SMF 81.87 44 eP 10 57.50 -0.8
0.9s 9.00nm 4.8mb
DOU 82.05 41 P 10 59.50 0.4
ENN 82.82 40 eP 11 03.00 -0.1
1.0s 27.00nm 5.2mb
e 11 11.50
MEM 82.89 40 P 11 04.20 0.8
WTS 83.23 38 eP 11 05.50 0.3
0.9s 14.00nm 5.0mb
e 11 10.50
HAU 83.42 43 eP 11 06.00 -0.3
0.9s 8.20nm 4.8mb
Z 22s 0.40um 4.7Msz
ABH 83.96 41 eP 11 08.96 -0.1
CDF 83.98 42 eP 11 08.80 -0.5
0.9s 8.20nm 4.8mb
NB2 84.34 29 P 11 10.90 0.2
0.7s 4.60nm 4.7mb
HFS 85.71 30 eP 11 16.60 -0.9
0.9s 6.80nm 4.9mb
Z 16s 0.16um 4.5MszX
LR 41 27.00
MOX 86.42 39 eP 11 22.00 0.8
CLL 87.15 39 iP 11 24.60 -0.1
1.4s 20.00nm 5.2mb
WET 87.51 41 iPc 11 27.00 0.4
1.2s 38.00nm 5.5mb
BHG 87.80 42 iPc 11 29.30 1.3
BRG 87.82 39 eP 11 28.20 0.2
1.2s 15.00nm 5.1mb
i 11 37.60
KHC 87.96 41 iP 11 29.50 0.7
1.2s 10.00nm 4.9mb
e 11 39.00
KBA 88.25 43 iPc 11 30.40 0.0
1.2s 19.60nm 5.3mb
i 11 34.20
PRU 88.39 40 eP 11 31.00 0.3
1.5s 11.20nm 4.9mb
ZST 90.46 41 iP 11 41.30 0.8
SRO 91.34 41 eP 11 44.60 0.1
KRA 91.73 39 eP 11 47.50 1.2
OHR 94.96 47 eP 12 01.20 -0.3
MLR 97.06 42 eP 12 11.00 0.0
ASPA 140.86 244 iPKPc 18 09.00 -0.9
GKN 141.08 15 PKP 18 00.00 -10.4X
WRA 141.22 250 PKP 18 10.00 -0.6
0.8s 4.00nm
CGP 145.84 301 ePKP 18 20.00 1.3
0.8s 4.00nm
HYB 148.26 32 ePKP 18 24.50 2.0
1.0s 25.00nm
GBA 150.70 38 PKPd 18 26.10 -0.1
1.0s 6.20nm
CHG 151.49 353 ePKP 18 33.00 5.6X
CHTO 151.49 353 ePKP 18 32.30 4.9X
1.0s 7.00nm
KOD 153.26 43 ePKP 18 32.30 1.9
S.D. = 0.8 on 87 of 101 obs.

MAR 22, 1991 05h 52m 34.43± 0.70s
33.730 N ± 4.3km 36.975 E ± 7.6km
DEPTH = 25.5 ± 3.8 km

3.8mb (1 obs.)
JORDAN - SYRIA REGION (374)
ML 4.1 (BHL).

BHL	1.11	279	Pg	52	54.00	-0.5
			Sg	53	10.00	
HRI	1.13	246	iPc	52	55.60	0.9
SHMJ	1.42	226	Pd	52	59.65	0.8
SHBJ	1.51	160	Pc	53	00.55	0.4
ATZ	1.69	238	iPc	53	04.40	1.7
			eS	53	28.00	
JARJ	1.72	210	Pc	53	03.67	0.5
BURJ	1.78	214	Pd	53	04.29	0.2
MML	1.84	226	iPc	53	06.20	1.3
QTFJ	1.95	167	Pc	53	06.78	0.3
RUWJ	2.00	128	Pc	53	03.22	-4.0X
SALJ	2.03	213	Pc	53	07.66	0.0
KFNJ	2.16	211	Pc	53	09.25	-0.2
MDSJ	2.18	196	Pc	53	09.93	0.1
ZNT	2.21	228	iPc	53	12.00	1.8
			eS	53	41.00	
MASJ	2.26	208	Pc	53	10.56	-0.3
MKRJ	2.45	208	Pc	53	12.96	-0.6
QTRJ	2.56	199	Pc	53	15.03	-0.2
CSTJ	2.61	186	Pc	53	14.34	-1.7
FAM	2.76	298	e(P)	53	19.00	1.0
LISJ	2.79	207	Pc	53	18.81	0.6
JRDJ	3.19	201	Pc	53	23.94	-0.3
CSS	3.26	293	eP	53	24.50	-0.5
			eSn	54	05.50	
GAZ	3.44	3	iPn	53	27.00	-0.6
SHWJ	3.56	201	Pc	53	32.61	3.0X
JRSJ	3.76	204	Pc	53	35.77	3.6X
PRNI	3.77	207	eP	53	32.50	0.2
NAQJ	3.92	199	Pc	53	34.64	0.2
PPCY	4.00	288	eP	53	36.00	0.4
HITJ	4.09	194	Pd	53	36.73	-0.3
HSHJ	4.17	196	Pc	53	41.78	3.7X
MBH	4.33	205	eP	53	40.00	-0.3
HLW	6.16	233	ePn	54	13.30	7.3X
			e(S)	55	22.00	
BCK	6.40	307	iPn	54	09.30	-0.2
ELL	6.52	300	iPn	54	10.80	-0.5
BBTK	6.97	332	eP	54	19.00	1.3
KHL	7.58	309	ePn	54	22.00	-4.1X
YER	7.87	298	iP	54	28.50	-1.6
CIN	8.20	301	eP	54	33.00	-1.7
KER	8.43	83	e(P)	55	27.00	48.9X
TAB	8.73	58	eP	54	50.00	7.8X
OHR	14.80	305	e(P)	56	12.30	8.4X
KHC	23.20	319	eP	57	45.00	4.9X
			e	58	01.00	
BCAO	33.83	215	ePd	59	24.00	7.1X
	0.3s		3.00nm			4.7mb X
YKA	81.42	347	eP	04	52.30	2.2
	0.8s		0.80nm			3.8mb

S.D. = 1.0 on 33 of 44 obs.

MAR 22, 1991 06h 08m 52.72± 0.69s
23.319 N ± 8.3km 119.999 E ± 5.7km
DEPTH = 10.0km (geophysicist)
TAIWAN REGION (243)

TWK	0.45	97	iPd	09	01.90	0.0
			eS	09	08.30	
TWM1	0.63	141	eP	09	05.10	-0.3
TWG	1.11	116	ePd	09	12.90	-0.6
			eS	09	26.80	
TWF1	1.19	88	ePd	09	14.70	-0.3
TWQ	1.22	39	iPc	09	17.00	1.5
			eS	09	34.30	
TWD	1.65	62	eP	09	22.40	0.6
QZH	2.07	322	Pnc	09	28.00	0.2
			Pg	09	34.50	
			Sn	10	00.00	
ANP	2.32	36	eP	09	39.40	7.8X
GZH	6.13	269	P	10	27.50	2.0
			S	11	29.00	
SSE	7.82	8	eP	10	55.50	6.3X
Z	18s		0.40um			
NJ2	8.76	354	Pc	11	01.40	-0.9
WHN	8.78	326	eP	11	01.00	-1.6
			eS	12	49.00	
GYA	12.50	287	P	11	53.00	-0.7
			S	14	12.40	
BJI	16.98	350	eP	12	56.50	4.7X

S.D. = 1.2 on 11 of 14 obs.

& MAR 22, 1991 06h 58m 59.19s
58.815 N 152.826 W
DEPTH = 58.4km
KODIAK ISLAND REGION (13)
<AEIC>.

SYI	0.31	132	iP	59	08.72	-0.5
			eS	59	16.37	
CDD	0.44	286	iP	59	10.07	-0.5
			eS	59	18.95	
AUI	0.61	330	eP	59	11.54	-0.8
			eS	59	21.37	
AUE	0.61	333	eP	59	11.85	-0.5
AUH	0.64	330	eP	59	12.20	-0.6
XLV	0.86	41	eP	59	14.58	-0.9
			eS	59	26.85	
MCNL	0.87	296	iP	59	14.80	-0.7
			eS	59	26.29	
HOM	1.04	35	eP	59	17.47	-0.4
			eS	59	31.01	
CNPM	1.09	48	eP	59	17.81	-0.7
			eS	59	32.25	
BRLK	1.38	45	eP	59	22.03	-0.5
			eS	59	40.04	
NNL	1.46	32	eP	59	23.45	-0.1
RED	1.61	1	eP	59	24.63	-1.2
			eS	59	44.09	
RSO	1.65	1	eP	59	25.44	-1.1
			eS	59	45.23	
RS2	1.65	1	iP	59	25.55	-1.0
			eS	59	45.50	
REF	1.68	2	eP	59	25.62	-1.3
RDN	1.70	1	eP	59	26.04	-1.1
NCT	1.75	358	eP	59	26.79	-1.0
RDT	1.78	7	iP	59	27.02	-1.1
			eS	59	48.51	
NKA	2.09	22	eP	59	34.24	1.8
SLKM	2.15	37	eP	59	32.39	-0.9
SEW	2.15	52	eP	59	33.70	0.4
CKL	2.40	6	eP	59	36.08	-0.8
SPU	2.41	9	eP	59	35.87	-1.0
BGL	2.47	5	eP	59	37.08	-0.7
CRP	2.48	7	eP	59	37.19	-0.9
NCG	2.62	7	eP	59	40.41	0.5
SUA	2.85	21	eP	59	43.38	0.0
PWA	3.20	26	eP	59	46.59	-1.5
SKT	3.24	11	eP	59	48.38	-0.3
KNK	3.40	38	eP	59	48.20	-2.8
GHO	3.55	32	eP	59	50.62	-2.4

31 obs. assaciated

• MAR 22, 1991 07h 04m 07.65± 2.64s
34.117 N ±22.4km 37.181 E ±10.2km
DEPTH = 10.0km (geophysicist)
JORDAN - SYRIA REGION (374)
ML 3.0 (BHL).

BHL	1.29	261	Pg	04	32.00	0.4
			Sg	04	48.00	
SHMJ	1.82	221	Pd	04	39.20	-0.1
SHBJ	1.84	170	Pd	04	40.26	0.6
JARJ	2.14	209	Pc	04	43.46	-0.5
RUWJ	2.14	139	Pd	04	43.53	-0.5
BURJ	2.20	212	Pc	04	44.00	-0.8
QTFJ	2.30	174	Pd	04	46.36	0.1
SALJ	2.45	211	P	04	47.37	-1.0
MDSJ	2.60	198	Pd	04	51.89	1.4
MASJ	2.68	208	Pd	04	52.03	0.3

S.D. = 0.8 on 10 of 10 obs.

• MAR 22, 1991 07h 32m 53.68± 1.82s
20.192 S ±16.3km 71.398 W ±15.3km
DEPTH = 33.0km (normol)
3.9mb (1 obs.)
OFF COAST OF NORTHERN CHILE (121)

ARE	3.71	359	iPc	33	49.50	-0.9
			eS	34	32.00	
CNCB	4.67	45	P	34	07.20	2.9X
LPB	4.80	41	P	34	06.00	0.0
ZOBO	4.99	39	P	34	10.00	1.2
			S	35	34.00	
CCH	5.71	62	P	34	18.20	-0.5
SIV	10.67	69	P	35	19.40	-8.0X
PPD	18.83	99	(P)	37	13.00	-0.3
YKA	89.20	341	eP	45	47.50	0.5

0.8s 0.50nm 3.9mb
S.D. = 1.0 on 6 of 8 obs.

• MAR 22, 1991 07h 55m 20.83± 0.55s
61.103 N ±15.8km 166.464 E ±10.5km
DEPTH = 33.0km (normol)
4.7mb (8 obs.)
EASTERN SIBERIA (671)

TTA	17.54	68	eP	59	25.80	1.7
IMA	18.16	57	ePc	59	32.50	0.7
	1.1s		9.40nm			3.8mb
FBA	20.74	60	eP	59	59.90	-0.8
TOA	22.16	67	eP	00	15.00	-0.1
INK	25.62	48	ePd	00	47.90	-0.4
MBC	28.31	29	eP	01	14.00	1.3
MAT	30.37	229	eP	01	31.00	-0.6
	1.1s		16.46nm			4.7mb
YKA	35.17	52	eP	02	11.30	-1.7
	0.8s		2.80nm			4.2mb
SES	44.58	65	eP	03	31.00	-0.1
LZH	46.09	267	eP	03	45.00	1.7
	1.0s		20.00nm			5.0mb
NUR	55.20	338	eP	04	50.00	-2.0
NB2	56.71	346	P	05	03.00	0.0
	1.0s		9.90nm			4.8mb
CHG	62.86	260	eP	05	46.50	0.9
CHTO	62.86	260	eP	05	46.10	0.5
	0.9s		5.97nm			4.7mb
WB2	84.80	210	iPc	07	52.20	-0.5
	0.8s		3.40nm			4.6mb
WRA	84.80	210	P	07	52.00	-0.7
	1.0s		4.10nm			4.6mb

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

MAR 22, 1991 08h 16m 33.12± 0.61s
9.062 N ± 3.9km 70.044 W ± 3.7km
DEPTH = 23.4 ± 4.6 km
4.9mb (30 obs.) 4.3Msz (1 obs.)
VENEZUELA (101)
Felt in the Guanare areo.

SDV	0.61	253	iPgd	16	44.60	-0.6
			iSg	16	52.90	
TOV	0.76	19	iPgc	16	47.80	0.1
			iSg	16	56.20	
CEOS	1.69	91	iP	17	02.60	1.0
MORO	2.48	43	iP	17	14.90	2.0X
OLLA	3.33	73	iP	17	26.10	1.0
LLAV	3.48	66	iP	17	28.60	1.3
BMG	3.59	237	iPd	17	31.50	2.6X
GUAN	4.43	78	iP	17	41.30	0.7
FUQ	5.11	226	eP	18	02.00	11.4X
BOG	5.95	222	eP	18	45.00	42.6X
			iS	19	16.00	
TCE	8.33	78	eP	18	34.28	-1.2
			eS	20	05.98	
TPP	8.56	81	eP	18	40.80	2.1X
			eS	20	15.38	
TRN	8.66	79	eP	18	37.99	-2.0
			eS	20	09.43	
GRW	8.80	69	eP	18	42.11	0.1
			eS	20	18.54	
TBH	8.96	80	eP	18	43.96	-0.2
			eS	20	22.85	
TPR	9.36	76	eP	18	42.23	-7.5X
UPA	9.37	270	ePc	18	49.00	-0.9
FCV	9.54	64	eP	18	49.95	-2.3
SVV	9.64	63	eP	18	51.00	-2.5
			eS	19	37.00	
SLB	10.01	61	eP	18	56.22	-2.5
			eS	20	17.04	
SLW	10.19	60	eP	19	02.73	1.5
PSO	10.66	223	eP	19	10.50	2.6X
CAYA	11.92	222	eP	19	25.00	-0.3
YANA	12.46	223	eP	19	35.00	2.6X
GGP	12.52	223	eP	19	32.00	-1.4
ZOBO	25.24	176	P	22	00.50	0.8
Z	18s		0.87um			4.3Msz
			S	26	40.00	
			LR	32	00.00	
ARE	25.40	183	eP	22	00.00	-0.9
LPB	25.50	176	P	22	02.00	0.0
CNCB	25.79	175	P	22	05.80	1.0
			i	28	07.30	
SIV	26.43	160	iPc	22	10.20	0.0
CCH	26.56	172	P	22	12.70	1.0

22d 08h

FVM	34.16	331	P	23 19.00	0.4
	1.0s		105.00nm		5.7mb
SOB1	34.23	121	eP	23 20.50	0.9
TUL	35.55	323	eP	23 30.40	-0.2
	0.8s		19.00nm		5.1mb
PPD	35.95	149	eP	23 34.50	0.4
			e	23 37.90	
MEO	36.58	319	eP	23 40.30	1.0
GAC	36.81	354	eP	23 42.00	1.0
	0.5s		6.00nm		4.7mb
PDCR	37.47	124	eP	23 46.60	-0.4
VAO	39.06	145	eP	24 01.10	0.8
			e	24 04.70	
ROCH	41.81	181	eP	24 22.50	-0.4
PEL	41.97	181	iPd	24 23.60	-0.5
ALQ	42.08	313	eP	24 27.00	1.8
	1.0s		4.75nm		4.2mb
ANMO	42.08	313	P	24 29.50	4.3X
	1.0s		7.50nm		4.4mb
PCH	42.45	181	eP	24 27.80	-0.2
TACH	42.49	181	ePd	24 28.00	-0.2
LNV	42.80	182	eP	24 30.20	-0.5
RSSD	45.71	326	P	24 54.50	0.1
	0.9s		10.46nm		4.8mb
SCH	45.71	3	eP	24 54.00	0.0
BW06	48.17	321	P	25 14.30	0.4
	1.2s		22.83nm		5.1mb
TNP	51.25	312	P	25 39.10	1.6
	0.7s		4.78nm		4.5mb
FFC	52.14	337	eP	25 42.00	-1.8
	0.8s		8.00nm		4.7mb
SES	53.32	328	eP	25 53.00	0.4
FRB	54.60	1	eP	26 01.00	-0.7
NEW	55.54	324	P	26 07.80	-1.1
	0.7s		12.00nm		5.0mb
PNT	57.49	324	eP	26 27.00	4.2X
YKA	62.27	338	eP	26 52.50	-2.8X
	0.8s		6.20nm		4.8mb
LKO	63.52	84	Pc	27 03.22	-1.2
	0.7s		15.00nm		5.3mb
IFR	64.16	57	iP	27 10.00	1.4
TIC	64.39	87	P	27 08.76	-1.4
LIC	64.43	87	Pc	27 09.04	-1.4
	0.6s		8.00nm		5.0mb
KIC	64.70	87	Pc	27 10.90	-1.2
	0.7s		14.50nm		5.2mb
LPF	69.30	42	eP	27 40.20	-0.4
GRR	69.48	42	eP	27 41.40	-0.3
	1.0s		14.00nm		5.0mb
EPF	69.54	47	eP	27 42.40	0.1
	0.9s		12.30nm		5.0mb
MFF	69.67	44	eP	27 42.80	-0.1
	0.7s		7.70nm		4.9mb
FLN	69.79	41	eP	27 43.60	0.0
	1.0s		24.00nm		5.3mb
LDF	69.99	42	eP	27 44.70	-0.2
	0.9s		13.10nm		5.1mb
CAF	70.99	46	eP	27 50.80	-0.3
	1.0s		12.00nm		5.0mb
INK	71.99	340	ePc	27 55.40	-1.1
MBC	72.18	349	eP	27 57.00	-0.6
	1.0s		8.00nm		4.7mb
SMF	72.41	44	eP	27 59.00	-0.5
	1.1s		12.20nm		4.9mb
LOR	72.48	43	eP	27 59.00	-0.9
LPL	74.33	45	eP	28 11.50	0.5
	0.8s		8.05nm		4.8mb
LPG	74.34	45	eP	28 11.80	0.7
	1.0s		10.00nm		4.8mb
FBA	76.65	335	P	28 22.00	-1.5
	0.7s		6.40nm		4.8mb
PMR	76.89	331	P	28 24.20	-0.6
	0.5s		6.20nm		4.9mb
NB2	77.89	29	P	28 31.50	1.0
	1.0s		8.40nm		4.7mb
CLL	78.65	39	eP	28 37.00	2.2
KBA	78.93	44	e(P)	28 38.00	1.3
	1.1s		5.80nm		4.5mb
			i	28 47.90	
			i	29 03.70	
KHC	79.04	42	P	28 38.20	1.1
PRU	79.65	41	eP	28 40.50	0.2
			e	28 44.50	
SVW	79.99	331	P	28 40.50	-1.4
	0.8s		27.59nm		5.3mb
BCAO	87.91	86	iPd	29 23.40	0.5
	0.4s		8.00nm		5.4mb

			ic	29 27.20	
WRA	154.07	243	PKP	36 31.00	6.1X
	1.1s		3.90nm		

S.D. = 1.1 on 72 of 84 obs.

? MAR 22, 1991 08h 25m 23.98± 3.79s
24.222 S ±49.0km 179.802 E ±26.1km
DEPTH = 538.3 ± 34.7 km
4.8mb (4 obs.)
SOUTH OF FIJI ISLANDS (171)

SGE	6.83	345	ePc	27 10.40	-0.4
DZM	12.47	277	iPc	28 09.10	1.0
CTA	31.30	271	iPd	31 02.80	1.2
	0.8s		43.20nm		5.1mb
PMG	34.43	290	eP	31 28.00	0.0
ASPA	41.81	261	iPd	32 28.20	0.2
WB2	42.19	267	eP	32 29.80	-1.3
	0.5s		19.70nm		4.9mb
			eS	36 32.00	
WRA	42.20	267	P	32 30.00	-1.2
	0.6s		18.70nm		4.8mb
PRI	82.23	45	eP	36 55.00	5.1X
FRI	83.36	45	eP	36 55.00	-0.3
CMB	83.56	43	eP	36 56.00	-0.4
ORV	83.80	42	eP	36 57.70	0.2
WDC	83.82	40	eP	36 58.40	0.8
PNT	90.86	35	eP	37 31.00	0.4
ALQ	91.30	52	eP	37 33.00	-0.2
	0.9s		2.73nm		4.3mb
NB2	142.37	351	PKP	43 52.10	-4.1X
	0.8s		2.10nm		
HFS	142.82	349	ePKP	43 53.20	-3.7X
	0.5s		9.60nm		
KSP	150.52	339	iPKPc	44 16.00	6.4X
CLL	151.11	343	iPKP	44 17.00	6.6X
	0.9s		21.00nm		
			ipP	46 22.40	
BRG	151.23	341	iPKP	44 17.60	7.0X
	0.8s		16.00nm		
BCAO	153.30	225	ePKPd	44 14.90	0.2
	0.3s		4.00nm		

S.D. = 0.8 on 14 of 20 obs.

% MAR 22, 1991 10h 12m 27.99± 4.36s
43.544 N ±28.4km 7.070 E ± 9.1km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
MD 1.6 (STR).

CALN	0.25	328	Pg	12 33.23	-0.1
REVF	0.29	48	Pg	12 33.92	-0.2
			Sg	12 38.80	
MVIF	0.36	10	Pg	12 35.81	0.4
			Sg	12 39.15	
AURF	0.39	28	Pg	12 36.24	0.2
			Sg	12 40.97	
TOUF	0.49	15	Pg	12 37.46	-0.5
AUTN	0.52	30	Pg	12 38.41	-0.2
SAOF	0.57	38	Pg	12 39.75	0.3

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

% MAR 22, 1991 10h 57m 06.38± 1.00s
39.245 N ± 7.2km 27.445 E ±13.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZM	0.86	190	ePg	57 23.00	0.1
			eSg	57 35.80	
DST	0.98	68	ePn	57 24.90	-0.2
BNT	1.17	18	ePn	57 29.00	0.8
KGT	1.21	355	ePn	57 28.40	-0.5
KCT	1.22	35	ePn	57 29.00	-0.2

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

% MAR 22, 1991 11h 02m 16.07± 0.88s
39.123 N ± 7.0km 27.584 E ±12.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZM	0.77	199	ePg	02 30.80	-0.3
			eSg	02 42.80	
DST	0.94	59	ePn	02 34.40	0.3
EDC	1.24	10	ePn	02 39.00	-0.1
BNT	1.26	12	ePn	02 39.00	-0.5
KCT	1.27	28	ePn	02 38.90	-0.8
KGT	1.34	351	iPn	02 41.40	0.6

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

? MAR 22, 1991 12h 17m 09.30± 8.88s
45.424 N ±45.0km 14.752 E ±41.9km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MD 2.1 (LJU), 2.1 (TRI).

CEY	0.39	324	iPgd	17 17.00	-0.3
			iSg	17 20.40	
LJU	0.64	346	ePg	17 22.00	-0.1
			eSg	17 29.00	
TRI	0.75	293	ePg	17 23.70	-0.3
			iSg	17 33.00	
VOY	0.85	316	e(Pg)	17 26.50	0.7
			eSg	17 35.50	

S.D. = 0.8 on 4 of 4 obs.

& MAR 22, 1991 12h 24m 28.66s
61.701 N 151.967 W
DEPTH = 107.8km
SOUTHERN ALASKA (2)
<AEIC>.

NCG	0.31	197	iPc	24 43.84	-0.7
			iS	24 56.53	
SKT	0.35	36	iPc	24 43.73	-0.9
			iS	24 55.89	
CRP	0.44	192	iPc	24 44.74	-0.6
BGL	0.48	205	eP	24 44.58	-0.9
SPU	0.52	185	iPc	24 44.85	-0.9
			eS	24 58.32	
CKL	0.54	200	iPc	24 45.14	-0.8
			eS	24 58.36	
SUA	0.63	112	iPc	24 46.42	-0.2
			eS	25 00.32	
PWA	1.00	92	ePc	24 49.54	-0.4
			eS	25 07.28	
NKA	1.02	160	iPc	24 51.23	1.1
CUT	1.07	48	ePd	24 49.83	-0.8
RDT	1.15	191	iPc	24 51.14	-0.6
NCT	1.24	203	ePd	24 52.03	-0.7
			eS	25 10.90	
PMS	1.24	111	iPc	24 51.96	-0.7
RDN	1.25	198	iPd	24 52.24	-0.7
REF	1.27	197	eP	24 52.59	-0.6
			eS	25 12.11	
RED	1.34	197	eP	24 53.44	-0.5
			eS	25 13.57	
PLRM	1.36	93	iPc	24 52.46	-1.5
GHO	1.45	86	ePc	24 54.06	-1.1
			eS	25 14.92	
SLKM	1.47	144	eP	24 55.16	-0.2
NNL	1.70	169	eP	24 58.23	0.1
KNK	1.71	98	iPc	24 56.80	-1.5
			eS	25 20.08	
TRF	1 92	23	eP	24 59.27	-1.9
SEW	2.02	141	ePc	25 01.34	-0.9
CNPM	2.21	170	eP	25 03.16	-1.7
RND	2.24	39	eP	25 02.97	-2.3
KNIM	2.47	122	iPc	25 05.22	-3.0
			eS	25 35.59	
GLI	2.49	107	iPc	25 05.85	-2.7
			eS	25 36.68	
VZW	2.68	102	ePc	25 09.08	-2.0
			eS	25 42.79	
MTU	2.72	127	eP	25 09.42	-2.2
			eS	25 41.56	
VLZ	2.77	99	eP	25 09.73	-2.4
TOA	2.77	79	eP	25 10.33	-2.0
KLU	2.90	91	ePc	25 11.63	-2.4
			eS	25 46.34	
TZL	3.12	81	eP	25 15.34	-1.6
GLB	3.91	90	eP	25 25.56	-2.2
TGL	4.52	98	eP	25 34.70	-1.4
			eS	26 25.54	
BALM	4.68	94	eP	25 36.14	-2.2
			eS	26 27.53	
CTGM	5.17	94	eP	25 43.50	-1.7

37 obs. associated

MAR 22, 1991 12h 29m 00.95± 1.12s
5.664 S ± 8.5km 153.631 E ± 8.3km
DEPTH = 67.6 ± 10.9 km
4.9mb (7 obs.)
NEW IRELAND REGION (190)

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RAB      2.06 315 e(P)   29 34.00    0.0
                 iS      30 08.00
SVO      7.04 120 eP     30 44.00    0.3
                 eS      32 10.00
HNR      7.29 121 eP     30 49.00    1.8
                 eS      32 11.00
PMG      7.42 240 eP     30 47.00   -1.9
CTA     16.03 206 iPd    32 44.00    0.3
        1.0s     39.00nm          4.5mb
QIS     20.12 221 ePd    33 31.50   -0.5
DZM     20.48 144 iPc    33 33.70   -2.2
RMO     21.23 192 eP     33 43.00   -0.3
ASPA    26.10 225 iPc    34 30.80    0.4
      Z 23s      0.30um          3.8MszX
                 PcP     37 57.10
                 iS      38 36.50
CMS     26.71 195 eP     34 37.00    1.2
STK     28.41 202 eP     35 13.80   22.6X
        1.1s     3.50nm
LOE     56.14 295 eP     38 36.40    0.1
CHG     59.10 296 ePc    38 57.50    0.4
        1.0s     13.75nm          5.0mb
LZH     62.42 316 Pc     39 20.00    0.5
        1.2s     50.00nm          5.5mb
                 pP      39 38.50   71kmX
GUN     73.27 301 P      40 28.40    0.7
PKI     73.58 301 P      40 30.00    0.5
KKN     73.75 301 P      40 31.00    0.7
        0.6s     15.00nm          5.1mb
DMN     73.85 301 P      40 31.60    0.6
        0.8s     34.00nm          5.3mb
GKN     74.36 301 P      40 34.00    0.2
GBA     78.00 285 Pd     40 54.40    0.2
        1.0s     4.80nm           4.4mb
INK     88.96  21 eP     41 47.00   -2.1
QUE     89.95 300 eP     41 55.30    0.5
YKA     95.80  28 eP     42 17.80   -2.9
        0.7s     0.40nm           4.0mb
BCAO   135.26 271 ePKPd  48 15.60   -0.1
        0.4s     5.00nm
IFR    145.98 327 iPKPc  48 36.00    1.5
     S.D. = 1.2  on  24 of  25 obs.
-------------------------------------
%  MAR  22, 1991  12h 32m 25.27± 0.85s
   39.281 N ± 6.6km   27.708 E ±10.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)

DST      0.78  65 ePg     32 40.90    0.4
IZM      0.95 202 ePg     32 43.30   -0.1
                 eSg     32 57.30
EDC      1.07   6 ePn     32 45.50    0.1
BNT      1.09   9 ePn     32 46.00    0.3
KCT      1.09  27 ePn     32 44.90   -0.8
EZN      1.20 297 ePn     32 49.40    1.8X
KGT      1.21 345 ePn     32 47.90    0.1
YLV      1.81  44 ePn     32 58.90    2.1X
     S.D. = 0.6  on   6 of   8 obs.
-------------------------------------
*  MAR  22, 1991  12h 39m 16.65± 1.46s
   9.382 N ± 7.0km  126.473 E ±13.9km
   DEPTH =  75.6 ± 11.5 km
   4.3mb (  3 obs.)
 MINDANAO, PHILIPPINE ISLANDS     (259)

CGP      1.98 242 ePc     39 49.00    0.2
                 eS      40 17.00
PLP      2.30 320 iPc     39 52.00   -1.1
                 iS      39 57.50
MAP      2.63 291 ePc     39 59.00    1.3
                 eS      40 25.00
BJI     31.88 345 eP     45 36.00   -0.7
ASPA    33.64 168 eP     45 51.20   -1.1
WARB    35.35 180 eP     46 06.50   -0.4
FORR    40.03 178 eP     46 45.00   -0.9
BAL     40.85 193 eP     46 53.00    0.3
        0.4s     3.00nm           4.5mb
MUN     42.28 193 iPd    47 04.70    0.3
GUN     42.39 301 P      47 06.00    0.1
PKI     42.69 301 P      47 07.40   -0.9
KKN     42.86 301 P      47 09.60    0.1
DMN     42.96 301 P      47 10.10   -0.3
NWAO    42.98 191 iPd    47 10.80    0.7
      Z 20s      0.30um          4.2Msz
      N 20s      0.20um
      E 20s      0.20um
GKN     43.47 301 P      47 13.70   -0.7
STK     43.50 161 eP     47 30.00   15.7X
        1.8s     2.70nm
GBA     48.17 280 Pd     47 51.90    0.3
        0.6s     2.70nm           4.4mb
INK     85.03  22 eP     51 46.00    1.2
MBC     86.53  13 eP     51 56.00    3.9X
YKA     94.48  24 eP     52 30.70    1.2
        0.6s     0.30nm           3.9mb
     S.D. = 0.9  on  18 of  20 obs.
-------------------------------------
*  MAR  22, 1991  12h 41m 41.09± 0.81s
   42.892 N ± 5.8km   12.841 E ± 8.1km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                    (381)
     MD 2.8 (SSO).

ASS      0.22 323 P      41 46.00    0.1
                 eSg     41 49.50
CIO      0.38  36 iPg     41 49.11    0.3
                 iSg     41 56.00
MNS      0.52 193 P      41 51.70    0.0
                 eSg     41 57.50
ALP      0.55 101 ePg     41 52.31   -0.1
                 eSg     42 00.36
ARV      0.61   7 P      41 53.10   -0.3
                 eSg     42 03.40
     S.D. = 0.3  on   5 of   5 obs.
-------------------------------------
?  MAR  22, 1991  12h 45m 46.88± 2.85s
   18.617 N ±34.7km   66.757 W ± 8.3km
   DEPTH =  33.0km  (normal)
 PUERTO RICO REGION               ( 90)

MCP      0.39 240 iP      45 55.90    0.0
                 S       46 00.70
MGP      0.68 208 iP      46 00.00   -0.1
SJG      0.76 131 iP      46 01.00   -0.2
LPR      0.90 110 iP      46 03.00   -0.1
                 S       46 15.00
CPD      0.98 126 iP      46 04.80    0.4
     S.D. = 0.3  on   5 of   5 obs.
-------------------------------------
   MAR  22, 1991  13h 22m 12.43± 0.54s
   42.573 N ± 5.3km   24.139 E ± 4.3km
   DEPTH =   5.0km  (geophysicist)
 BULGARIA                         (359)
     MD 2.8 (THE).

PGB      0.03 138 iPgc    22 14.00    0.3
PLD      0.63 138 iPgc    22 24.00   -1.0
VTS      0.69 272 iPgc    22 25.00   -1.2
                 iSg     22 35.00
MMB      1.03 197 iPgc    22 32.00   -0.4
                 Sg      22 49.00
PVL      1.09  53 iPgd    22 33.00   -0.3
                 iSg     22 46.00
KDZ      1.32 134 iPd     22 37.00   -0.4
                 iSg     22 54.00
SRS      1.51 196 ePd     22 40.62    0.4
                 eS      23 01.24
KNT      1.69 214 ePd     22 43.44    0.7
                 eS      23 06.88
VAY      1.71 224 iPn     22 44.20    1.1
JM8      1.81  93 eP     22 45.00    0.5
SOH      1.85 199 iPc     22 45.50    0.4
                 iS      23 12.50
GRG      2.07 219 ePd     22 49.60    1.3
SKO      2.09 254 iPn     22 51.70    3.1X
                 iSn     23 17.50
ALN      2.20 139 ePd     22 49.68   -0.4
PAIG     2.67 188 ePd     22 54.76   -2.0
DMK      2.79 104 ePn     22 58.80    0.2
OHR      2.89 241 ePn     23 01.20    1.1
MLR      3.19  23 eP     23 07.00    2.6X
                 e       28 12.00
                 e       44 48.00
VRI      3.78  29 ePd     23 14.00    1.3
DST      4.50 130 ePn     24 07.90   45.0X
CEY      7.67 298 iPgd    24 00.90   -6.6X
                 iSg     24 04.40
LJU      7.71 300 ePgd    24 06.40   -1.7
                 e(Sg)   24 12.50
TRI      8.09 296 e(Pg)   24 07.40   -6.0X
                 iSg     24 16.70
VOY      8.12 299 e(Pg)   24 09.80   -4.1X
                 eSg     24 19.20
     S.D. = 1.1  on  18 of  24 obs.
-------------------------------------
   MAR  22, 1991  13h 25m 38.38± 0.70s
    9.099 N ± 6.4km   70.138 W ± 6.5km
   DEPTH =  37.0 ±  7.5 km
   4.8mb (  7 obs.)
 VENEZUELA                        (101)

SDV      0.53 247 iPgd    25 48.40   -1.2
                 iSg     25 56.10
TOV      0.76  26 iPgc    25 51.00   -1.8
                 iSg     26 01.00
CEOS     1.78  92 iP      26 06.70   -0.7
MORO     2.51  45 iP      26 19.70    1.8
OLLA     3.41  74 iP      26 30.20   -0.4
                 iS      27 10.30
CAR      3.46  66 iP      26 32.80    1.5
                 iS      27 01.80
LLAV     3.56  67 iP      26 32.90    0.3
                 iS      27 06.50
UPA      9.28 270 ePc     28 02.00    9.1X
CAYA    11.89 222 eP      28 30.00    1.0
ZOBO    25.28 175 P       31 03.50   -0.3
        0.8s     39.13nm          5.0mb
      Z 16s      0.49um          4.1MszX
                 LR      39 56.00
LPB     25.55 175 P       31 06.00   -0.1
                 e       38 20.00
CNCB    25.83 175 P       31 09.50    0.6
                 e       38 21.00
SIV     26.50 160 P       31 14.20   -0.2
CCH     26.61 171 P       31 16.80    1.1
PDCR    37.57 124 eP      32 50.80   -0.6
FFC     52.07 337 eP      34 47.00    0.3
        0.8s     5.00nm           4.5mb
FRB     54.57   1 eP      35 05.00    0.1
YKA     62.20 338 eP      35 58.50    0.2
        0.8s     2.50nm           4.4mb
LKO     63.61  84 P       36 07.48   -1.0
        0.6s     9.50nm           5.1mb
LIC     64.52  87 P       36 13.36   -1.1
KIC     64.79  87 Pc      36 15.20   -1.0
        0.6s     8.50nm           5.0mb
INK     71.92 340 ePd     37 00.20    0.7
MBC     72.13 349 eP      37 04.50    3.8X
NB2     77.91  29 P       37 39.80    5.9X
        1.0s     3.70nm           4.4mb
CLL     78.68  39 e(P)    37 35.00   -3.3X
BCAO    88.00  86 ePd     38 27.70    1.0
        0.6s     4.00nm           4.9mb
ASPA   152.83 235 iPKPd   45 33.50    7.1X
     S.D. = 1.0  on  22 of  27 obs.
-------------------------------------
   MAR  22, 1991  13h 35m 11.70± 0.42s
   46.832 N ± 3.7km   13.323 E ± 4.3km
   DEPTH =   6.8 ±  4.2 km
 AUSTRIA                          (546)
     ML 3.2 (FUR), 3.2 (VIE). Felt
     (V) at Moellbruecke.

KBA      0.25   4 iPgd    35 16.30   -0.6
                 iSg     35 19.60
FVI      0.44 238 P       35 20.70    0.1
                 eSg     35 28.00
VOY      0.89 154 ePg     35 27.70   -1.5
                 eSg     35 40.20
BHG      0.94 341 iPgd    35 29.30   -0.6
SCE      1.12 281 iPgd    35 32.10   -1.1
LJU      1.15 133 ePg     35 33.50    0.0
                 eSg     35 48.00
TRI      1.16 165 ePg     35 32.70   -1.0
                 iSg     35 50.60
WTTA     1.23 291 iPgc    35 34.30   -0.7
                 id      35 34.50
                 iSg     35 51.60
                 i       35 52.10
WATA     1.30 294 iPgc    35 35.50   -0.6
                 id      35 35.60
                 iSg     35 53.30
CEY      1.33 145 e(Pg)   35 37.00    0.3
                 eSg     35 54.80
CTI      1.40 236 P       35 38.50    0.8
                 eSg     35 56.60
SOTA     1.50 286 iPgc    35 38.90   -0.3
                 id      35 39.20
                 i       36 01.20
OGA      1.58 272 iPnc    35 40.90    0.5
VBY      1.89 134 eP      36 00.50   15.8X
```

22d 13h

		iSg	36	12.00		
FUR	1.92	315 iPgd	35	48.20	3.0X	
KHC	2.31	4 iPn	35	50.50	-0.3	
		Pg	35	53.50		
		Sn	36	17.00		
		Sg	36	24.00		
WET	2.33	353 iPnc	35	50.40	-0.8	
VKA	2.48	54 iPgd	35	53.20	0.0	
		iSg	36	24.80		
ZST	2.90	61 eP	36	32.90	33.7X	
GRF	3.19	335 ePg	36	02.00	-1.2	
		eSg	36	54.00		
PRU	3.26	14 eP	36	08.00	3.7X	
	0.5s	15.90nm				
		iPg	36	12.10		
		eSg	36	52.00		
	S.D. = 0.7	on 17 of 21 obs.				

? MAR 22, 1991 13h 43m 56.56± 7.42s
42.681 N ±65.6km 24.044 E ±15.0km
DEPTH = 10.0km (geophysicist)
BULGARIA (359)
MD 2.7 (THE).

SRS	1.60	192 iPc	44	24.50	-0.4	
		eS	44	51.44		
KNT	1.74	210 ePc	44	25.76	-1.3	
		eS	44	51.44		
VAY	1.75	219 ePn	44	27.00	-0.1	
SOH	1.93	196 iPc	44	28.50	-1.3	
		iS	44	58.00		
SKO	2.06	251 ePn	44	20.00	-11.6X	
GRG	2.12	216 ePd	44	33.96	1.5	
		eS	45	03.64		
ALN	2.33	139 iPd	44	35.21	-0.3	
OUR	2.34	181 iPc	44	37.42	1.7	
OHR	2.89	238 eP	45	28.00	44.5X	
	S.D. = 1.5	on 7 of 9 obs.				

& MAR 22, 1991 13h 50m 56.41s
59.153 N 153.838 W
DEPTH = 112.5km
SOUTHERN ALASKA (2)
<AEIC>.

CDD	0.25	156 iP	51	11.71	0.7	
		eS	51	24.11		
MCNL	0.26	277 iP	51	11.77	0.8	
		eS	51	23.35		
AUI	0.28	49 eP	51	11.76	0.7	
		eS	51	24.10		
AUH	0.29	44 eP	51	12.29	1.1	
AUE	0.32	49 eP	51	12.31	-0.4	
SYI	0.93	125 iP	51	16.42	-0.9	
		eS	51	31.61		
RED	1.38	23 iP	51	21.23	-1.2	
		S	51	40.52		
CNPM	1.38	73 eP	51	21.23	-1.2	
		eS	51	40.55		
RS2	1.42	22 eP	51	21.91	-1.2	
		eS	51	41.44		
RSO	1.42	22 eP	51	21.99	-1.1	
		eS	51	41.79		
REF	1.46	23 iP	51	22.25	-1.2	
		eS	51	42.48		
RDN	1.47	21 iP	51	22.48	-1.0	
		eS	51	42.89		
NCT	1.49	18 eP	51	22.58	-1.1	
		eS	51	42.02		
NNL	1.57	54 eP	51	24.08	-0.5	
RDT	1.60	26 eP	51	23.54	-1.5	
		eS	51	44.75		
BRLK	1.63	67 eP	51	23.67	-1.7	
NKA	2.06	38 eP	51	30.49	-0.3	
CKL	2.18	19 eP	51	30.78	-1.7	
SPU	2.22	23 eP	51	31.24	-1.7	
BGL	2.24	18 eP	51	31.97	-1.2	
SLKM	2.28	52 eP	51	31.98	-1.6	
CRP	2.28	21 eP	51	31.28	-2.5	
NCG	2.41	20 eP	51	34.77	-0.7	
SEW	2.42	65 eP	51	33.74	-1.7	
SUA	2.78	32 eP	51	38.89	-1.5	
PMS	2.99	44 eP	51	41.00	-2.1	
SKT	3.06	21 eP	51	42.04	-1.9	
LTI	3.17	71 eP	51	43.42	-2.0	
PWA	3.18	36 eP	51	43.95	-1.7	
MTU	3.26	72 eP	51	44.42	-2.2	
KNIM	3.31	66 eP	51	44.66	-2.7	
PLRM	3.38	42 eP	51	45.39	-2.9	
KNK	3.51	47 eP	51	47.15	-2.9	
GHO	3.58	41 eP	51	48.43	-2.7	
CUT	3.70	27 eP	51	49.78	-2.9	
GLI	3.80	60 eP	51	50.51	-3.5	
	36 obs. associated					

MAR 22, 1991 14h 03m 54.78± 0.27s
45.886 N ± 3.8km 5.202 E ± 2.6km
DEPTH = 6.4 ± 2.3 km
FRANCE (538)
ML 3.3 (LDG). MD 3.1 (STR).

SSB	0.76	218 Pg	04	08.51	-1.5	
		Sg	04	18.48		
RSL	1.02	101 Pg	04	14.53	0.1	
		Sg	04	27.55		
PLDF	1.11	275 Pg	04	16.95	1.0	
		Sg	04	32.41		
LPL	1.13	108 Pg	04	16.50	0.0	
LPG	1.15	109 Pg	04	16.90	0.0	
		Sg	04	30.40		
SMF	1.21	309 Pn	04	18.80	1.1	
		Pg	04	19.70		
		Sg	04	37.00		
EMS	1.22	81 ePd	04	18.80	0.8	
BNI	1.33	128 P	04	19.80	0.0	
		eSg	04	37.80		
LBF	1.39	323 Pn	04	21.40	0.8	
		Pg	04	22.70		
		Sg	04	42.80		
LSD	1.44	107 P	04	22.01	0.4	
		S	04	38.11		
AGO	1.45	277 Pg	04	21.74	0.2	
RRL	1.48	130 P	04	22.52	0.4	
		S	04	39.44		
LBL	1.52	245 Pn	04	21.76	-0.7	
		Pg	04	23.56		
		Sg	04	43.24		
PYM	1.54	266 Pg	04	24.69	1.8	
		Sg	04	45.44		
DIX	1.55	82 ePd	04	24.50	1.3	
AVF	1.57	306 Pn	04	23.80	0.7	
		Pg	04	26.30		
		Sg	04	47.60		
RSP	1.62	116 P	04	24.98	0.9	
		S	04	43.90		
SSF	1.66	316 Pg	04	28.40	3.9X	
		Sg	04	50.40		
LOR	1.66	327 Pn	04	25.00	0.4	
		Pg	04	28.20		
		Sg	04	50.20		
BGF	1.77	293 Pn	04	26.50	0.4	
BHB	1.79	125 P	04	27.86	1.5	
MAF	1.87	281 Pn	04	27.90	0.4	
		Sg	04	55.60		
PZZ	1.93	135 P	04	30.21	1.7	
MMK	1.93	84 ePd	04	32.30	3.6X	
ORX	1.96	96 P	04	31.25	2.2	
DOI	2.00	133 P	04	37.50	8.0X	
		eSg	04	58.00		
TCF	2.12	282 Pn	04	31.40	0.2	
		Pg	04	36.00		
		Sg	05	03.00		
STV	2.23	137 P	04	32.98	0.2	
BSF	2.23	29 Pn	04	32.00	-0.9	
		Pg	04	38.00		
		Sg	05	07.20		
HAU	2.26	20 Pn	04	32.60	-0.6	
		Pg	04	39.20		
		Sg	05	09.20		
ENR	2.29	136 P	04	34.26	0.6	
		S	04	59.92		
CAF	2.41	248 Pn	04	35.20	-0.2	
		Sg	05	10.00		
ROB	2.47	129 P	04	37.08	0.8	
VAI	2.49	89 P	04	40.00	3.5X	
FRF	2.54	156 Pn	04	35.80	-1.4	
LRG	2.57	161 Pn	04	36.20	-1.3	
SBF	2.57	141 Pn	04	35.80	-1.9	
		Sg	05	15.60		
LSF	2.58	279 Pg	04	44.40	6.6X	
		Sg	05	17.40		
RJF	2.65	259 Pn	04	38.40	-0.4	
		Pg	04	46.20		
		Sg	05	19.20		
FIN	2.71	127 P	04	39.54	-0.1	
ZLA	2.71	53 ePc	04	47.80	8.1X	
LMR	2.72	159 Pn	04	38.50	-1.2	
PCP	2.72	118 P	04	40.72	0.9	
IMI	2.75	135 P	04	40.06	-0.2	
FEL	2.77	43 ePn	04	38.81	-1.8	
LLS	2.81	68 ePd	04	41.70	0.5	
CDF	2.90	29 Pn	04	40.80	-1.5	
		Pg	04	50.20		
SLE	2.94	49 ePd	04	41.30	-1.6	
SAX	3.17	63 ePd	04	46.20	-0.1	
MFF	3.78	283 Pn	04	54.20	-0.6	
	S.D. = 1.1	on 44 of 50 obs.				

? MAR 22, 1991 14h 30m 13.34± 1.16s
37.994 N ±10.5km 22.446 E ±14.8km
DEPTH = 10.0km (geophysicist)
SOUTHERN GREECE (368)
ML 3.0 (ATH).

ATH	1.00	91 ePn	30	32.20	-0.1	
		eSn	30	46.00		
VLI	1.33	163 ePn	30	38.00	0.1	
KZN	2.37	347 ePn	30	54.00	1.1	
OHR	3.36	338 ePn	31	06.00	-1.0	
	S.D. = 1.5	on 4 of 4 obs.				

& MAR 22, 1991 14h 59m 59.21s
37.817 N 112.997 W
DEPTH = 3.1km
3.2mb (1 obs.)
UTAH (478)
<SLC-P>. ML 3.1 (SLC). Felt in the Enoch area.

CCU	0.15	202 P	00	02.40	0.1	
IMU	0.82	351 P	00	15.50	-0.2	
MSU	0.95	43 iPd	00	17.80	-0.3	
DUG	2.38	3 eP	00	38.80	-1.1	
DAU	2.92	27 eP	00	50.00	2.2	
PV09	3.12	76 eP	00	50.00	-0.5	
TNP	3.35	276 eP	00	52.00	-1.7	
KVN	4.19	289 eP	01	04.50	-1.1	
CLC	4.20	243 eP	01	04.00	-1.6	
BONR	4.20	274 eP	01	04.50	-1.3	
TPC	4.45	215 eP	01	23.00	13.7	
GLA	4.98	198 eP	01	16.30	-0.4	
SBB	5.00	233 eP	01	32.00	15.0	
MWC	5.45	230 eP	01	26.00	2.5	
ANMO	6.00	117 eP	01	30.00	-1.3	
YKA	24.72	358 eP	05	21.70	-0.9	
	0.7s	0.40nm			3.2mb	
	16 obs. associated					

• MAR 22, 1991 16h 19m 06.88± 1.12s
11.707 N ±16.8km 143.147 E ±28.9km
DEPTH = 33.0km (normal)
4.5mb (2 obs.)
SOUTH OF MARIANA ISLANDS (210)

GUA	2.51	43 eP	19	46.20	0.0	
		eS	20	16.20		
PJG	2.51	42 eP	19	46.00	-0.3	
WB2	32.62	195 eP	25	37.20	-0.7	
	0.4s	5.20nm			4.8mb	
ASPA	36.30	194 eP	26	09.90	0.4	
DZM	40.61	146 iPc	26	45.80	0.2	
YKA	85.29	27 eP	31	41.90	0.4	
	0.4s	0.80nm			4.3mb	
	S.D. = 0.6	on 6 of 6 obs.				

MAR 22, 1991 17h 02m 19.58± 0.25s
79.849 N ± 4.5km 123.884 E ± 4.6km
DEPTH = 10.0km (geophysicist)
4.7mb (34 obs.) 4.1Msz (4 obs.)
EAST OF SEVERNAYA ZEMLYA (654)

MBC	20.54	38 ePd	06	59.50	-0.6	
	1.0s	34.00nm			4.7mb	
DAG	22.30	338 eP	07	17.50	-0.4	
KEV	23.77	301 iP	07	39.20	7.0X	
	0.8s	22.00nm			4.8mb	
		i	07	56.00		
ANM	24.09	87 eP	07	38.20	2.8X	
IMA	24.76	75 eP	07	43.60	1.5	
	1.5s	25.40nm			4.7mb	
INK	25.95	56 eP	07	53.00	0.0	

SOD	26.00	299	iP	07	55.40	1.8
			i	08	17.00	
FBA	26.83	71	eP	08	04.70	3.4X
SVW	29.01	81	eP	08	22.50	1.4
TOA	29.71	72	eP	08	28.00	0.7
KAF	30.96	295	iP	08	37.20	-1.1
	0.6s	2.10nm			4.2mb	
NUR	32.74	295	iP	08	55.80	1.9
	0.9s	6.20nm			4.5mb	
YKA	34.05	45	eP	09	03.40	-1.8
	1.2s	2.90nm			4.1mb	
NB2	34.27	307	P	09	06.00	-1.2
	1.1s	26.60nm			5.1mb	
HFS	34.78	305	eP	09	17.70	6.2X
	1.1s	16.90nm			4.8mb	
MDJ	35.42	173	Pc	09	17.30	0.2
	1.0s	20.00nm			4.9mb	
CN2	36.18	178	eP	09	23.60	0.1
Z	16s	0.60um			4.5MszX	
		pP		09	32.00	28kmX
WMQ	38.49	223	P	09	43.50	0.4
	1.0s	20.00nm			4.8mb	
Z	18s	1.00um			4.7Msz	
		pP		09	52.50	30kmX
BJI	40.04	189	eP	09	56.50	0.7
	1.0s	26.00nm			4.9mb	
GTA	41.60	208	Pd	10	09.20	0.3
	1.0s	10.00nm			4.5mb	
TIY	42.49	193	eP	10	17.40	1.3
KSP	43.36	298	eP	10	24.00	1.0
	1.0s	41.00nm			5.1mb	
		ic		10	31.50	
CLL	43.41	301	iP	10	23.60	0.2
	0.9s	10.00nm			4.6mb	
KRA	43.54	295	eP	10	25.10	0.7
		i		10	33.80	
BRG	43.69	300	iP	10	34.50	8.9X
	0.8s	16.00nm			4.9mb	
		i		12	09.80	
MOX	44.27	302	eP	10	31.00	0.7
		e		10	40.00	
SPC	44.34	294	eP	10	32.40	1.3
PRU	44.46	300	eP	10	32.00	0.1
		e		10	41.50	
		e		11	23.00	
LZH	44.59	203	Pd	10	34.00	0.7
	2.0s	25.00nm			4.8mb	
		sP		10	43.50	
GRF	45.25	302	e(P)	10	40.00	1.7
KHC	45.44	300	iPc	10	41.80	2.0
		i		10	50.50	
ZST	45.80	297	eP	10	43.20	0.6
		e		10	51.90	
SRO	45.98	295	eP	10	53.80	9.8X
SES	46.30	46	eP	10	47.00	0.5
XAN	46.32	197	P	10	46.60	-0.2
VRI	46.48	287	ePc	10	46.00	-2.0
CDF	47.08	306	eP	10	53.00	0.2
	0.9s	6.55nm			4.7mb	
ISR	47.22	287	eP	10	55.00	1.1
KBA	47.48	300	e(P)	10	55.00	-1.1
	0.7s	11.30nm			5.1mb	
		i		10	58.00	
		i		11	06.60	
NEW	47.57	52	eP	10	57.10	0.5
	1.0s	3.50nm			4.4mb	
HAU	47.61	306	eP	10	56.80	-0.1
Z	21s	0.17um			4.0Msz	
BSF	47.72	306	eP	10	57.40	-0.5
LOR	48.69	308	eP	11	04.60	-0.7
	0.7s	4.40nm			4.6mb	
Z	20s	0.20um			4.1Msz	
SSF	48.94	309	eP	11	06.70	-0.5
	1.0s	10.00nm			4.8mb	
LBF	48.95	308	eP	11	06.60	-0.7
	0.9s	12.30nm			4.9mb	
BGF	49.52	309	eP	11	11.40	-0.3
	0.8s	9.40nm			4.8mb	
TCF	49.87	309	eP	11	13.90	-0.5
	0.7s	4.95nm			4.6mb	
LPL	49.99	305	eP	11	15.80	0.2
LSF	50.00	310	eP	11	14.70	-0.7
LPG	50.01	305	eP	11	16.00	0.2
RJF	50.93	310	eP	11	22.10	-0.4
Z	20s	0.17um			4.1Msz	
SKO	51.16	291	eP	11	10.50	-13.7X
LPO	51.59	310	eP	11	27.50	0.1
	0.9s	9.85nm			4.7mb	
OHR	52.10	291	eP	11	36.00	4.6X
EPF	53.33	310	eP	11	39.80	-0.7
	0.9s	6.55nm			4.6mb	
RSSD	53.34	42	iP	11	45.00	4.2X
	0.8s	6.01nm			4.6mb	
BW06	53.97	47	eP	11	44.80	-0.7
	1.0s	3.75nm			4.4mb	
GUN	54.41	222	P	11	48.80	-0.2
	0.8s	27.00nm			5.3mb	
GKN	54.47	223	P	11	48.40	-0.8
KKN	54.60	223	P	11	50.40	0.1
DMN	54.80	223	P	11	51.60	-0.2
PKI	54.80	223	P	11	52.20	0.3
ALO	62.09	46	ePc	12	41.10	-1.5
	1.0s	6.25nm			4.8mb	
CHG	62.11	207	eP	12	41.50	-1.1
CHTO	62.11	207	eP	12	41.50	-1.1
	1.1s	3.53nm			4.5mb	
HYB	65.68	228	eP	13	04.50	-1.4
GBA	69.58	229	Pc	13	28.70	-1.6
	0.7s	3.80nm			4.7mb	
PSI	78.08	206	iP	14	18.80	-0.9
BCAO	88.35	286	iPc	15	12.50	0.1
	0.6s	8.00nm			5.2mb	
		ic		15	21.20	
WRA	99.76	170	P	16	05.00	0.3
	1.3s	0.80nm			4.1mb	
WB2	99.76	170	eP	15	47.90	-16.8X
	0.4s	3.80nm				
S.D. = 1.0 on 61 of 71 obs.						

? MAR 22, 1991 17h 05m 39.06± 3.42s
45.848 N ±28.1km 26.958 E ±11.7km
DEPTH = 93.7 ± 28.9 km
ROMANIA (358)

VRI	0.16	278	iPc	05	52.00	0.1
ISR	0.77	202	iPc	05	57.00	0.1
MLR	0.80	244	ePc	05	57.00	-0.2
			e	10	53.00	
CFR	1.07	128	iPc	06	00.00	-0.1
TLB	1.47	149	iPc	06	05.00	0.0
COZ	1.91	255	iPc	06	11.00	0.1
S.D. = 0.2 on 6 of 6 obs.						

• MAR 22, 1991 17h 08m 06.22± 1.36s
19.688 S ±14.3km 169.663 E ±11.9km
DEPTH = 66.3 ± 12.6 km
4.3mb (4 obs.)
VANUATU ISLANDS (186)

PVC	2.32	326	iP	08	45.00	2.1
BKM	2.42	326	iP	08	42.00	-2.2
			iS	09	07.30	
DZM	3.83	231	iP	09	04.90	0.8
			iS	09	53.00	
SGE	8.10	76	eP	10	03.40	-0.4
CTA	22.02	265	eP	12	51.00	-5.5X
WB2	33.18	263	eP	14	37.30	-1.5
	0.5s	3.00nm			4.4mb	
WRA	33.20	263	P	14	38.00	-0.9
	0.7s	2.40nm			4.2mb	
ASPA	33.41	257	iPd	14	40.70	-0.1
			i	14	46.40	
BJI	77.54	321	eP	20	01.50	5.1X
Z	16s	0.29um			4.7MszX	
CHG	79.20	294	eP	20	07.20	1.1
CHTO	79.20	294	eP	20	06.20	0.2
	1.0s	3.75nm			4.3mb	
LZH	83.32	312	e(P)	20	28.50	1.0
	2.0s	36.00nm			5.0mb	
			sP	20	37.50	
SKO	145.13	317	iPKP	27	37.90	0.1
OHR	145.97	316	ePKP	27	34.00	-5.4X
BCAO	148.04	245	iPKPc	27	48.10	4.7X
	0.9s	14.00nm				
S.D. = 1.5 on 11 of 15 obs.						

• MAR 22, 1991 17h 18m 26.99± 0.92s
61.118 N ±21.6km 167.162 E ±11.7km
DEPTH = 33.0km (normal)
4.3mb (4 obs.)
EASTERN SIBERIA (671)

TTA	17.22	68	eP	22	25.50	-0.8
IMA	17.87	57	eP	22	36.10	1.7
FBA	20.44	60	eP	23	03.30	-0.4
TOA	21.84	67	eP	23	18.80	0.7
INK	25.35	48	eP	23	52.00	0.0
YKA	34.89	53	eP	25	15.50	-1.3
	0.8s	1.50nm			4.0mb	
SES	44.27	65	eP	26	35.00	0.3
NB2	56.78	346	P	28	09.40	-0.2
	0.8s	4.00nm			4.5mb	
HFS	57.35	345	eP	28	12.70	-0.9
	0.4s	0.70nm			4.1mb	
HYB	74.26	277	eP	30	04.00	1.6
WB2	84.98	211	eP	30	59.00	-0.8
	0.7s	4.10nm			4.7mb	
S.D. = 1.1 on 11 of 11 obs.						

MAR 22, 1991 17h 42m 30.60± 0.70s
40.909 N ± 6.4km 22.301 E ± 5.7km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 2.5 (THE).

GRG	0.09	58	iPd	42	33.90	0.7
			eS	42	36.06	
VAY	0.46	26	iPg	42	39.30	-0.6
			iSg	42	43.80	
KNT	0.52	61	iPc	42	40.74	-0.3
			eS	42	47.22	
THE	0.58	119	ePc	42	42.50	0.3
			iS	42	52.90	
SOH	0.80	96	iPc	42	46.00	-0.2
			iS	42	58.60	
SRS	1.00	78	iPd	42	49.38	-0.2
			iS	43	03.98	
OHR	1.15	281	ePn	42	53.00	0.8
SKO	1.24	329	iPg	42	53.60	-0.1
			iSg	43	09.80	
PAIG	1.44	133	iPc	42	58.37	1.7
			iS	43	20.85	
AGG	1.89	179	ePd	43	01.26	-1.9
S.D. = 1.1 on 10 of 10 obs.						

% MAR 22, 1991 20h 27m 29.44± 1.70s
40.104 N ±13.4km 23.240 E ±14.6km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 2.1 (THE).

PAIG	0.38	117	iPd	27	37.22	0.0
			eS	27	43.94	
SOH	0.72	7	ePd	27	44.06	0.4
			iS	27	53.00	
SRS	1.05	15	ePc	27	49.26	0.1
			eS	28	02.58	
GRG	1.07	323	ePd	27	49.86	0.3
			eS	28	04.50	
KNT	1.09	346	iP	27	49.14	-0.8
			eS	28	03.14	
S.D. = 0.6 on 5 of 5 obs.						

• MAR 22, 1991 21h 11m 47.23± 1.18s
37.023 N ±13.4km 21.030 E ±11.6km
DEPTH = 10.8 ± 8.5 km
SOUTHERN GREECE (368)
MD 3.4 (ATH).

VLS	1.20	343	ePb	12	10.00	0.4
VLI	1.56	101	ePb	12	15.00	0.1
KZN	3.33	10	ePn	12	41.00	0.6
LCI	4.09	325	P	12	49.00	-2.0
SOI	4.09	286	P	12	51.00	0.0
			eSn	13	34.00	
TDS	4.53	307	P	12	57.90	0.6
ORI	4.70	312	P	13	00.80	1.0
BRT	4.87	323	P	13	01.50	-0.6
MGR	5.30	308	P	13	08.30	0.1
SGO	5.70	310	P	13	14.00	0.2
S.D. = 1.0 on 10 of 10 obs.						

• MAR 22, 1991 22h 40m 02.68± 1.25s
43.599 N ±11.4km 13.240 E ± 6.2km
DEPTH = 5.0km (geophysicist)
CENTRAL ITALY (381)

ARV	0.24	245	P	40	06.80	-0.7
			eSg	40	11.60	
AOI	0.27	100	ePg	40	08.01	-0.1
			eSg	40	13.72	

22d 22h

CIO	0.41	190	ePg	40 11.05	0.1
			eSg	40 19.58	
ASS	0.68	219	P	40 16.50	0.3
CRE	0.94	272	P	40 21.50	0.4
			eSg	40 24.60	

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

& MAR 22, 1991 23h 17m 59.30s
36.567 N 121.245 W
DEPTH = 13.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.9 (BRK).

LLA	0.25	78	iP	18 04.40	-0.4
SAO	0.25	321	iP	18 04.40	-0.5
PRS	0.26	203	iP	18 04.70	-0.2
PRI	0.63	132	iPc	18 11.30	-0.5
GCC	0.76	308	iPc	18 13.00	-0.9
ARN	0.81	344	eP	18 14.80	0.0
MHC	0.84	338	iPc	18 15.40	0.1
PKEM	1.05	118	eP	18 19.10	0.3
PCC	1.30	316	iPc	18 21.70	-1.4
FRI	1.30	71	eP	18 21.40	-1.7
			iS	18 38.10	
BKS	1.53	329	eP	18 24.40	-1.9
BRK	1.54	328	e(P)	18 22.90	-3.4
ZSP	1.59	330	ePd	18 25.80	-1.4
CMB	1.62	25	iPd	18 26.90	-0.7
			iS	18 47.40	
BCH	1.67	145	eP	18 26.00	-2.5
ABL	2.38	136	eP	18 36.60	-2.2
BONR	2.73	59	eP	18 43.80	0.0
TNP	3.55	64	eP	19 01.00	5.6

18 obs. associated

MAR 22, 1991 23h 43m 20.60± 0.48s
37.712 N ± 7.7km 75.328 E ± 9.1km
DEPTH = 33.0km (normal)
4.3mb (10 obs.)
TAJIK-XINJIANG BORDER REGION (719)

NDI	9.14	169	iPc	45 35.00	1.8
	0.6s	20.00nm		5.5mb	X
			eS	47 10.00	
QUE	10.23	225	eP	45 47.30	-1.1
			eS	47 32.90	
GKN	12.44	138	P	46 18.40	0.1
	0.4s	13.00nm		5.4mb	
KKN	12.95	137	P	46 25.20	0.0
	0.4s	8.00nm		5.1mb	
DMN	13.00	138	P	46 26.00	0.1
GUN	13.19	135	P	46 28.00	-0.5
PKI	13.20	137	P	46 28.20	-0.3
HYB	20.42	171	iPc	47 58.00	0.3
GBA	24.08	175	Pc	48 34.40	0.4
	0.6s	2.00nm		3.8mb	
HFS	44.28	321	eP	51 28.20	-0.3
	0.5s	1.10nm		3.9mb	
NB2	45.52	322	P	51 38.20	-0.3
	0.7s	1.20nm		3.9mb	
LPG	50.45	302	eP	52 17.70	0.3
	0.7s	2.75nm		4.4mb	
LPL	50.46	302	eP	52 17.50	0.2
	0.7s	2.75nm		4.4mb	
AVF	52.33	304	eP	52 20.70	-10.5X
	0.5s	2.20nm			
MBC	65.93	4	eP	54 06.00	1.1
	0.6s	7.00nm		4.9mb	
WB2	79.78	125	eP	55 24.80	-2.3
	0.3s	1.60nm		4.5mb	
YKA	79.82	5	eP	55 27.10	0.5
	0.5s	1.00nm		4.1mb	

S.D. = 1.0 on 16 of 17 obs.

MAR 23, 1991 00h 36m 44.90± 0.63s
36.353 N ± 3.7km 70.682 E ± 2.5km
DEPTH = 214.5 ± 6.6 km
5.0mb (78 obs.)
HINDU KUSH REGION (718)
Felt at Peshawar, Pakistan.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 22C
Centroid Location:
Origin Time 00:36:47.6 1.6
Lat 35.86N 0.17 Lon 70.43E 0.15
Dep 209.2 6.2 Half-duration 1.6

Moment Tensor: Scale 10**16 Nm
Mrr= 3.18 0.56 Mtt=-3.69 0.91
Mff= 0.51 0.80 Mrt= 4.36 0.73
Mrf=-5.42 0.75 Mtf= 2.43 1.09
Principal Axes:

	Val=	Plg=	Azm=
T	7.81	55	70
N	0.62	17	315
P	-8.44	30	215

Best Double Couple:Mo=8.1*10**16
NP1:Strike=265 Dip=21 Slip= 38
NP2: 139 77 107

KSH	5.21	52	ePd	38 03.00	0.0	
	0.7s	140.00nm		5.2mb		
			S	39 02.50		
QUE	6.90	208	iPd	38 25.10	0.3	
NDI	9.43	142	iPd	38 56.00	-1.4	
	0.5s	130.28nm		5.4mb		
			eS	40 33.60		
GKN	14.44	121	P	39 59.00	-2.0	
WMQ	14.99	55	P	40 06.50	-1.1	
	3.0s	1100.00nm		5.8mb		
			sP	41 00.00		
			S	42 47.50		
			ScS	51 49.50		
DMN	15.01	121	P	40 07.20	-0.9	
KKN	15.02	121	P	40 06.80	-1.4	
PKI	15.25	121	P	40 10.00	-1.1	
GUN	15.37	119	P	40 11.20	-1.4	
TEH	15.62	273	eP	40 19.00	3.6X	
POO	17.97	170	iPd	40 42.80	0.8	
	0.9s	122.69nm		5.4mb		
			iS	43 59.00		
LSA	18.39	105	P	40 47.60	0.9	
			S	44 06.50		
KER	19.33	271	iPd	40 57.10	1.1	
TAB	19.46	282	eP	41 02.00	4.7X	
HYB	20.11	158	iPd	41 05.00	1.2	
	1.0s	110.00nm		5.3mb		
DHR	20.17	246	iPd	41 06.00	1.7	
			eS	44 39.00		
SHL	21.08	115	iP	41 14.00	0.5	
			iS	44 56.00		
GTA	23.15	74	iPc	41 35.00	1.5	
	4.0s	1170.00nm		5.8mb	X	
			pP	42 14.00	205kmX	
			PcP	45 18.50		
			ScS	52 17.00		
GBA	23.45	163	Pc	41 37.10	0.8	
	0.9s	82.70nm		5.3mb		
RYD	23.69	247	iPd	41 40.20	1.7	
LZH	26.69	81	iPc	42 07.00	0.9	
	4.0s	570.00nm		5.6mb	X	
Z	13s	0.36um		4.1MszX		
			PP	43 06.00		
			sS	47 38.00		
			ScP	48 40.00		
			ScS	52 33.00		
KOD	26.72	165	eP	42 08.70	2.0	
CD2	27.98	92	iPc	42 18.40	0.7	
	0.8s	250.00nm		6.0mb		
			sP	43 24.70		
KMI	29.61	103	Pc	42 32.50	0.1	
	2.0s	100.00nm		5.2mb		
BBTK	29.90	288	eP	42 37.00	2.4X	
			e	43 16.00		
SRAT	30.36	240	iPd	42 41.30	2.2	
CHG	30.38	118	ePc	42 38.80	-0.1	
	0.9s	38.66nm		5.1mb		
DHJN	30.39	239	iPd	42 41.00	1.6	
BTO	30.91	70	P	42 43.50	0.1	
			eS	47 31.00		
BDT	31.46	120	iPc	42 49.00	0.7	
	1.0s	158.70nm		5.6mb		
HHC	32.05	69	Pc	42 54.50	1.1	
			PP	44 03.00		
			S	47 49.00		
			sS	49 07.00		
GYA	32.10	98	iPc	42 54.20	0.2	
	1.2s	200.00nm		5.6mb		
			PcP	45 37.00		
			S	47 49.60		
			ScP	48 59.40		
			ScS	52 57.20		
YLV	32.41	290	iP	42 56.60	0.2	
ELL	32.58	283	iP	42 58.80	0.7	
KHT	32.89	124	iPc	43 01.50	0.8	
CFR	33.07	299	eP	43 03.00	1.0	
DST	33.09	289	eP	43 04.00	1.7	
TIY	33.16	75	iPc	43 03.50	0.5	
	3.0s	300.00nm			5.4mb	
			PcP	45 40.00		
			S	48 11.00		
			PcS	49 28.00		
LOE	33.30	116	iPc	43 03.50	-0.7	
NST	33.32	120	iPc	43 08.00	3.6X	
VRI	34.08	300	eP	43 16.00	5.3X	
ISR	34.21	299	ePd	43 14.50	2.7X	
MLR	34.63	299	ePc	43 17.50	2.0	
			e	53 12.00		
NNT	35.24	125	iPc	43 20.40	-0.2	
BJI	35.65	70	eP	43 25.00	1.1	
	1.0s	27.00nm			4.8mb	
			ePcP	45 47.50		
			eS	48 40.00		
			eScP	49 12.00		
WHN	36.66	86	Pc	43 33.50	1.0	
	1.2s	100.00nm			5.3mb	
			PcP	45 50.90		
			ScP	49 16.00		
SRS	36.69	292	eP	43 33.40	0.7	
SOH	36.91	292	eP	43 45.20	10.6X	
TIA	37.16	76	Pc	43 37.10	0.5	
KNT	37.20	292	eP	43 37.50	0.5	
VAY	37.42	293	eP	43 39.60	0.8	
GRG	37.60	292	eP	43 42.00	1.6	
KAF	37.61	327	iP	43 40.50	0.4	
	0.5s	28.40nm			5.1mb	
BZS	37.66	300	eP	43 42.00	1.3	
NUR	37.80	324	iP	43 42.00	0.4	
	0.2s	41.40nm			5.7mb	
BSI	38.12	138	eP	43 44.00	-0.8	
SKO	38.17	294	eP	43 44.00	-1.0	
FNA	38.40	292	eP	43 46.90	-0.1	
SPC	38.49	306	eP	43 48.20	0.4	
			e	49 23.20		
KRA	38.69	307	eP	43 50.20	1.0	
	0.7s	30.00nm			5.0mb	
			e	44 04.90		
			e	44 28.80		
PSZ	38.74	304	eP	43 50.90	1.1	
OHR	38.77	293	eP	43 51.00	0.9	
BUD	39.35	303	e(P)	43 56.00	1.4	
NJ2	39.75	82	Pc	43 59.60	1.5	
	1.0s	100.00nm			5.3mb	
			PcP	46 00.40		
			ScP	49 27.40		
SOD	39.76	335	iP	43 58.00	0.2	
SRO	39.81	304	i(P)	44 00.80	2.4X	
			i	44 18.40		
			i	44 43.80		
SNG	39.88	129	eP	44 00.00	0.7	
HKC	40.09	98	iP	44 02.40	1.5	
ZST	40.60	304	e(P)	44 25.80	20.9X	
			e	44 48.60		
KEV	40.84	338	iPc	43 58.00	-8.6X	
SNY	40.88	66	eP	44 06.30	-0.9	
	0.6s	40.00nm			5.1mb	
KSP	41.03	308	eP	44 09.00	0.6	
			ic	49 33.50		
CN2	41.90	62	Pc	44 15.40	-0.2	
			PcP	46 06.00		
			ScP	49 34.50		
			eS	50 22.00		
			sS	51 34.00		
BSD	41.93	315	iP	44 14.80	-0.9	
	0.7s	8.80nm			4.4mb	
SSE	41.95	82	Pd	44 16.80	0.7	
	1.5s	102.00nm			5.1mb	
Z	20s	0.50um			4.4Msz	
			i	44 32.70		
			sP	45 26.00		
			i	49 53.50		
			S	51 42.00		
			e	53 44.00		
IPM	42.16	131	ePc	44 19.20	1.3	
	0.7s	142.80nm			5.6mb	
PRU	42.18	307	Pc	44 18.90	1.2	
			e	44 21.50		
			e	47 32.00		
TDS	42.40	292	P	44 21.30	1.6	
BRG	42.51	308	iPc	44 21.20	0.8	
	1.4s	24.00nm			4.5mb	
			i	44 30.50		

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                  i     45 05.80                | FLN   52.05 307 eP    45 32.70  -1.8 | WARB   81.54 131 eP    48 40.00   0.3
                  i     46 08.60                | EKA   52.21 316 Pd    45 34.90  -0.7 | SCH    82.13 337 eP    48 42.00  -0.4
LJU   42.55 301 eP    44 21.50   0.7            |         1.1s    19.10nm         4.6mb | WRA    82.13 122 P     48 42.00  -0.9
KHC   42.86 306 iPc   44 23.50   0.1            | LFF   52.26 302 eP    45 35.30  -0.7 |          1.0s   110.70nm          5.5mb
                  e     45 10.30                |         1.1s    31.75nm         4.8mb | WB2    82.14 122 iPd   48 42.40  -0.5
MGR   42.88 292 P     44 24.10   0.5            | GRR   52.39 307 eP    45 35.40  -1.5 |          0.4s   173.50nm          6.1mb X
VOY   42.99 301 eP    44 25.10   0.6            | MFF   52.39 305 eP    45 35.80  -1.2 | ASPA   84.38 125 iPc   48 53.70  -0.5
HFS   43.02 322 eP    44 24.20  -0.3            | LPF   52.60 307 eP    45 36.90  -1.5 |          0.6s    85.30nm          5.7mb
        0.6s    47.20nm         5.1mb           | MLS   52.60 300 P     45 37.93  -0.7 |                    iS    58 51.70
      Z  15s     0.11um         3.9MszX         | EPF   53.10 300 eP    45 40.90  -1.4 | SIT    84.38  14 ePc   48 55.70   2.0
                  LR    00 11.00                |         0.7s    4.40nm          4.1mb |          0.8s    48.28nm          5.3mb
CLL   43.08 309 eP    44 25.00  -0.1            | MAT   53.25  68 (P)   45 42.00  -1.4 | PMG    84.81 106 eP    48 56.50   0.0
                  e     45 05.00                |         0.8s    26.12nm         4.9mb | FORR   85.83 133 iPc   49 01.00  -0.1
                  iScP  49 41.00                |                   eS    54 10.00      |          0.5s    76.00nm          5.8mb
KBA   43.23 303 eP    44 26.50  -0.1            | EROO  53.76 298 eP    45 47.00  -0.2 | OIS    86.21 119 iP    49 02.20  -1.1
        1.0s    15.20nm         4.4mb           | YAMJ  54.02  66 P     45 48.30  -0.7 |          0.5s    35.00nm          5.4mb
                  e     44 44.00                | DAG   54.82 344 iPd   45 53.90  -0.5 | FFC    89.07 356 iPc   49 17.00   0.5
                  i     44 48.10                |         1.0s   124.00nm         5.5mb |          1.1s    67.00nm          5.5mb
                  e     45 09.00                | PLP   54.84 103 eP    45 54.00  -1.2 | CTA    90.71 114 iPc   49 24.00  -0.5
                  i     45 13.40                |         0.8s    15.00nm         4.7mb |          0.9s    84.03nm          5.7mb
TRO   43.30 336 eP    44 27.00   0.4            | OFUJ  54.88  64 P     45 54.20  -1.0 | EDM    90.73   2 iPc   49 25.00   0.8
BHG   43.47 304 iPc   44 28.70   0.4            | ECHE  55.18 297 eP    45 58.00   0.5 | SES    93.61   1 ePc   49 37.50  -0.1
MOX   44.00 308 eP    44 33.00   0.5            | CGP   56.26 106 eP    46 04.50  -0.8 | STK    94.91 126 eP    50 03.30  19.7X
        1.3s    19.00nm         4.4mb           |         1.0s    4.00nm          4.1mb |          0.4s     3.70nm
GRF   44.34 307 ePc   44 36.50   1.3            | EVIA  56.64 296 eP    46 08.00   0.1 | NEW    95.47   5 P    49 46.60   0.4
        1.3s    22.00nm         4.4mb           | GUD   57.07 299 eP    46 10.20  -0.7 |          0.7s    14.00nm          5.3mb
                  e     44 52.20                | TOL   57.28 298 iPd   46 12.80   0.6 | GMW    95.61   9 P    49 48.00   1.2
                  e     45 22.70                | BCAO  57.37 249 iPd   46 12.10  -1.0 | RMW    95.82   8 P    49 48.20   0.4
NB2   44.34 323 P     44 34.40  -0.7            |         0.6s    28.00nm         5.1mb | LON    96.52   9 P    49 51.40   0.4
        0.6s    33.30nm         5.0mb           |                   ic    46 58.90      | RSSD   99.76 356 P     50 08.00   2.1
CTI   44.54 302 P     44 36.80  -0.1            |                   ic    50 27.40      | KVN   104.53   7 Pdiff 50 30.00   3.0X
MDJ   44.70  60 eP    44 37.50  -0.5            | AFC   57.94 295 eP    46 16.00  -1.0 | ALQ   109.02 358 e(Pdif50 50.00   3.0X
SFI   44.77 299 P     44 39.80   1.2            | EHOR  58.95 296 eP    46 23.50  -0.3 | THZ   121.30 121 PKP   55 12.10  -1.4
OGA   44.83 303 eP    44 38.70  -0.6            | IFR   60.68 292 iPd   46 36.00   0.1 | KHZ   121.98 122 PKP   55 13.40  -1.3
MUD   45.20 317 eP    44 43.00   1.2            | AVE   62.49 292 iPd   46 46.50  -1.1 | SPA   126.17 180 iPKPd 55 21.50  -0.8
        1.0s    20.00nm         4.5mb           | TIO   63.47 290 iPd   46 53.50  -0.8 |          0.8s    25.42nm
KGM   45.57 131 ePc   44 47.20   2.0            | KRI   65.60 224 iPd   47 11.00   3.0X | SIV   132.74 282 PKP   55 36.00  -0.1
WTS   46.87 310 eP    44 56.00   1.0            | MBC   67.50   3 iPc   47 19.00   0.0 | ZOBO  138.40 288 PKP   55 46.50  -1.0
        0.7s     7.00nm         4.2mb           |         0.7s   301.00nm         6.1mb X | LPB   138.53 287 PKP   55 46.00  -1.5
CDF   47.09 306 eP    44 55.70  -1.2            | BRW   67.51  15 ePc   47 19.80   0.6 | CNCB  138.61 287 PKP   55 48.20   0.3
PGF   47.11 297 eP    44 55.90  -1.3            | BUL   68.84 222 iPc   47 28.10  -0.1 | ARE   141.08 290 ePKP  55 52.00   0.0
        0.6s    10.80nm         4.4mb           |                   iS    56 15.00      | PCH   148.23 263 ePKP  56 04.00   0.7
BSF   47.51 305 eP    44 59.20  -1.0            | ANM   70.27  22 ePc   47 37.20   1.0 | PEL   148.24 264 ePKP  56 04.00   0.8
        0.6s     9.90nm         4.4mb           | SHGH  71.00 263 eP    47 39.00  -2.3 |          1.0s    74.00nm
MEM   47.56 309 P     45 01.40   1.1            | KOGH  71.06 264 eP    47 40.00  -1.8 | ROCH   148.45 265 ePKP  56 04.50   0.7
HAU   47.77 305 eP    45 01.10  -1.0            | IMA   72.34  17 iPc   47 48.60   0.0 | TACH   148.58 263 ePKP  56 07.50   3.8X
        0.6s     4.50nm         4.0mb           |         1.2s   125.50nm         5.5mb | LNV    149.04 263 ePKP  56 05.00   0.6
SBF   47.90 299 eP    45 01.80  -1.4            | LKO   73.37 270 Pc    47 53.92  -1.3 |      S.D. = 1.0  on 204 of 221 obs.
        0.6s    16.25nm         4.6mb           |         0.8s    14.50nm         4.8mb | ------------------------------------------------
LPG   48.01 302 eP    45 03.70  -0.6            | SLR   73.57 219 eP    47 44.50 -11.7X | ?  MAR  23, 1991  00h 39m 39.30± 0.99s
        0.7s    17.10nm         4.6mb           | MBL   73.68 133 iPc   47 56.70   0.0 |    42.873 N ± 6.8km    12.846 E ±13.1km
LPL   48.02 302 eP    45 03.80  -0.4            |         0.5s    30.00nm         5.3mb |    DEPTH =  10.0km  (geophysicist)
        0.9s    18.00nm         4.5mb           | INK   74.09   9 iPc   47 58.70   0.2 |  CENTRAL ITALY                          (381)
RSL   48.05 302 P     45 04.18  -0.3            |         0.7s   129.00nm         5.8mb |
FRF   48.53 299 eP    45 07.00  -1.0            |                   pP    48 53.00 230kmX | ASS      0.24 326 Pc    39 44.60   0.2
        1.1s    24.40nm         4.5mb           | TTA   74.25  20 ePc   48 00.50   0.9 |                   eSg   39 48.40
CVP   48.61  98 eP    45 09.80   1.0            |         0.9s    57.29nm         5.3mb | CIO      0.39  34 e(Pg)  39 47.50   0.2
        1.0s     7.00nm         4.0mb           | KIC   74.52 267 P     48 01.06  -0.8 |                   eSg   39 53.70
SNF   48.66 309 Pc    45 10.20   1.4            | TIC   74.58 267 P     48 01.28  -0.9 | MNS      0.50 194 P     39 49.50   0.0
LMR   48.69 299 eP    45 08.50  -0.6            | FBA   74.68  16 iPc   48 02.50   0.5 |                   eSg   39 57.50
KBS   48.70 347 iPc   45 09.70   0.9            |         1.0s   192.10nm         5.8mb | ARV      0.63   6 P     39 51.60  -0.4
LRG   48.76 299 eP    45 08.80  -0.9            | LIC   74.83 267 Pc    48 02.74  -0.9 |                   eSg   40 01.60
        1.1s    24.40nm         4.5mb           |         0.7s     9.00nm         4.6mb |      S.D. = 0.4  on   4 of   4 obs.
LBF   49.55 304 eP    45 14.50  -1.3            | PRY   74.96 219 eP    48 07.00   2.8 | ------------------------------------------------
        0.9s     6.55nm         4.1mb           | MTN   75.05 119 iPd   48 04.10  -0.6 | ?  MAR  23, 1991  01h 20m 50.08± 0.98s
LOR   49.57 305 eP    45 14.10  -1.7            |         0.4s   113.00nm         6.0mb |    42.004 N ±11.0km    13.097 E ± 7.0km
SMF   49.72 304 eP    45 15.80  -1.2            | FRB   75.13 343 eP    48 04.00  -0.5 |    DEPTH =  10.0km  (geophysicist)
        0.8s    13.45nm         4.5mb           |         0.4s    20.00nm         5.2mb |  CENTRAL ITALY                          (381)
SSF   49.85 304 eP    45 16.60  -1.4            | KNA   75.42 122 iPc   48 06.60  -0.2 |
AVF   50.02 304 eP    45 18.00  -1.2            |         0.5s   116.00nm         5.9mb | AZI      0.25  93 P     20 54.50  -0.9
        0.7s    10.45nm         4.4mb           | SVW   75.82  21 ePc   48 09.60   1.1 |                   eSg   20 59.00
PGP   50.30 104 ePc   45 21.20  -0.4            | RSO   77.17  20 P     48 16.00  -0.1 | RMP      0.35 237 P     20 57.00  -0.3
        0.8s     7.50nm         4.2mb           | MEKA  77.17 137 iPd   48 16.30   0.0 |                   eSg   21 03.00
BGF   50.41 304 eP    45 20.90  -1.3            | PMR   77.19  18 ePc   48 15.90   0.0 | MNS      0.49 321 P     21 00.30   0.3
MAF   50.68 304 eP    45 23.50  -0.8            |         1.0s    97.10nm         5.5mb |                   eSg   21 06.70
        1.1s    20.75nm         4.5mb           | TOA   77.47  17 ePc   48 19.10   1.5 | SDI      0.61 119 P     21 03.50   1.0
TCF   50.90 304 eP    45 25.00  -1.0            | SLKM  77.82  19 P     48 18.70  -0.8 |                   eSg   21 13.50
        1.0s    16.00nm         4.5mb           | KLU   78.06  17 P     48 21.30   0.4 |      S.D. = 1.4  on   4 of   4 obs.
CAF   51.36 302 eP    45 28.70  -0.7            | BALM  79.28  16 P     48 28.20   0.7 | ------------------------------------------------
        1.2s    23.80nm         4.6mb           | BAL   79.38 141 eP    48 27.00  -1.3 |    MAR  23, 1991  02h 38m 10.15± 0.79s
LSF   51.37 304 eP    45 28.00  -1.5            |         0.5s    15.00nm         5.0mb |    50.918 N ± 7.5km    6.138 E ± 6.3km
        0.4s     3.15nm         4.2mb           | MUN   80.24 142 eP    48 32.00  -0.7 |    DEPTH =  10.0km  (geophysicist)
KKM   51.38 115 ePd   45 49.50  19.5X           | KLB   80.71 141 eP    48 34.00  -1.2 |  GERMANY                                (543)
RJF   51.63 303 eP    45 30.10  -1.3            | YKA   81.40   2 eP    48 37.90  -0.5 |       ML 2.4 (BNS).
        0.2s     8.05nm         4.9mb           |         0.6s    57.30nm         5.5mb |
LDF   51.86 307 eP    45 31.40  -1.7            | NWAO  81.51 142 iPc   48 38.60  -0.8 | ENN      0.20 222 iPgc  38 14.40  -0.2
LPO   52.03 302 eP    45 33.70  -0.6            |         0.6s     9.00nm         4.7mb |        0.8s   483.00nm
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23d 02h

			eSg	38	18.10	
MEM	0.32	195	iPd	38	16.05	-0.7
			id	38	21.48	
BNS	0.66	86	iPc	38	22.70	-0.5
	0.6s	199.00nm				
			iS	38	31.10	
UCC	1.13	265	eP	38	46.00	14.6X
WTS	1.16	21	iPgd	38	32.10	0.3
	0.7s	48.00nm				
			eSg	38	46.70	
SNF	1.25	252	eP	38	33.50	0.2
WLF	1.25	180	eP	38	51.10	17.7X
RUP	1.35	154	ePg	38	35.75	0.7
ABH	1.37	138	ePg	38	36.42	1.1
TNS	1.63	114	ePn	38	40.00	1.0
			eSn	39	05.60	
TOD	2.16	126	ePg	38	43.50	-3.1X
GRF	3.48	109	ePg	39	03.70	-1.7
			eSg	40	01.10	
S.D. = 1.0 on 9 of 12 obs.						

% MAR 23, 1991 03h 14m 19.65± 0.47s
40.753 N ± 4.8km 29.192 E ± 3.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YLV	0.23	144	iPg	14	24.60	-0.1
			iSg	14	26.60	
ISK	0.33	342	iPg	14	27.10	0.7
			eSg	14	30.60	
HRT	0.37	79	iPg	14	27.10	-0.1
			iSg	14	32.60	
CTT	0.70	305	iPg	14	33.60	0.1
			iSg	14	42.10	
EYL	0.76	104	iPg	14	33.60	-0.9
			eSg	14	43.60	
KCT	0.81	232	ePg	14	34.60	-0.8
GPA	0.97	118	iPg	14	39.00	0.9
			eSg	14	53.00	
BNT	1.05	248	ePn	14	39.60	0.2
EDC	1.09	249	ePn	14	40.00	-0.1
DST	1.23	201	ePn	14	43.30	0.8
DMK	1.52	315	ePn	14	46.30	-0.6
S.D. = 0.7 on 11 of 11 obs.						

MAR 23, 1991 03h 50m 57.96± 0.50s
48.314 N ±11.1km 154.591 E ± 9.5km
DEPTH = 33.0km (normal)
4.6mb (16 obs.)
KURIL ISLANDS (221)

KUSJ	8.66	237	eP	53	02.70	-1.1
			S	54	36.20	
ASAJ	9.28	248	P	53	17.60	5.1X
HOOJ	9.92	237	P	53	21.40	0.2
			S	55	10.10	
MAT	16.83	232	eP	54	52.00	-0.5
FBA	34.32	40	eP	57	43.90	0.9
	1.0s	7.50nm			4.6mb	
INK	39.79	34	eP	58	29.50	0.5
YKA	49.07	38	eP	59	43.00	-0.4
	0.8s	2.10nm			4.2mb	
CHG	53.45	257	ePc	00	18.00	1.0
	0.9s	11.13nm			4.9mb	
GUN	55.86	275	P	00	34.80	-0.2
KKN	56.34	275	P	00	39.80	1.5
PKI	56.40	275	P	00	39.20	0.4
DMN	56.58	275	P	00	40.80	0.8
GKN	56.63	276	P	00	40.00	-0.3
TNP	61.71	64	eP	01	15.50	0.1
FRB	63.24	20	eP	01	22.00	-2.8
RSSD	65.06	51	iP	01	37.10	-0.2
	1.0s	5.97nm			4.6mb	
PV09	66.15	59	eP	01	45.00	0.5
NB2	67.07	342	P	01	48.40	-1.2
	1.0s	3.20nm			4.4mb	
HFS	67.34	340	eP	01	50.10	-1.2
	0.4s	0.60nm			4.0mb	
ALQ	70.17	60	e(P)	02	22.00	12.6X
GBA	71.44	270	Pd	02	16.10	-1.0
	0.8s	3.20nm			4.4mb	
ASPA	74.01	200	iPc	02	32.10	0.1
	0.5s	4.10nm			4.7mb	
LBF	81.69	340	eP	03	13.50	-0.6
SSF	81.73	340	eP	03	14.80	0.6
	0.9s	6.55nm			4.7mb	
AVF	82.02	340	eP	03	15.80	0.1
	0.7s	3.30nm			4.5mb	
SMF	82.05	340	eP	03	15.90	0.0
	0.8s	6.70nm			4.7mb	
LPL	82.41	338	eP	03	18.80	0.7
	0.7s	2.65nm			4.4mb	
LPG	82.43	338	eP	03	18.90	0.7
	0.7s	3.30nm			4.5mb	
MAF	82.73	341	eP	03	20.10	0.6
	1.2s	14.90nm			4.9mb	
LSF	82.93	342	eP	03	20.60	0.1
	0.9s	5.75nm			4.7mb	
LMR	84.51	337	eP	03	28.90	0.4
	1.1s	14.65nm			5.1mb	
S.D. = 0.9 on 29 of 31 obs.						

? MAR 23, 1991 05h 25m 01.71± 3.56s
21.003 S ±25.3km 169.125 E ±34.7km
DEPTH = 87.8 ± 23.2 km
4.5mb (2 obs.)
LOYALTY ISLANDS REGION (189)

DZM	2.71	246	iP	25	43.90	-0.3
			iS	26	20.00	
PVC	3.34	347	iP	25	53.20	0.5
BKM	3.42	346	iPd	25	53.40	-0.5
			iS	26	39.20	
RMQ	19.42	250	eP	29	25.00	1.2
CMS	23.31	239	eP	30	17.00	14.3X
WB2	32.56	266	eP	31	26.10	-0.6
	0.7s	4.60nm			4.4mb	
			iS	35	55.20	
ASPA	32.64	259	eP	31	27.30	-0.1
	1.0s	8.90nm			4.5mb	
APO	136.80	342	ePKP	44	15.50	0.3
	0.4s	0.70nm				
SRO	144.39	326	ePKP	44	25.50	-3.6X
PRU	144.77	331	ePKP	44	25.50	-4.2X
ZST	144.78	327	ePKP	44	26.90	-2.9X
SKO	145.72	315	ePKP	44	27.00	-4.6X
KHC	145.83	331	PKP	44	30.00	-1.6
OHR	146.54	314	ePKP	44	30.70	-2.3
BCAO	147.03	244	iPKPd	44	34.10	-0.4
	0.9s	9.00nm				
			id	44	49.20	
CDF	149.01	336	ePKP	44	37.40	0.6
BSF	149.67	336	ePKP	44	39.80	2.0
	0.9s	6.55nm				
HAU	149.69	337	ePKP	44	39.00	1.3
	1.0s	10.00nm				
LOR	151.20	339	ePKP	44	43.40	3.4X
	0.9s	6.55nm				
	Z 21s	0.10um			4.6Msz	
LPL	151.59	333	ePKP	44	44.00	3.1X
	0.5s	1.80nm				
LPG	151.60	333	ePKP	44	44.00	3.0X
	0.9s	6.55nm				
S.D. = 1.4 on 13 of 21 obs.						

• MAR 23, 1991 05h 47m 02.56± 0.72s
31.622 N ± 8.6km 90.636 E ± 9.5km
DEPTH = 33.0km (normal)
4.1mb (3 obs.)
TIBET (306)

GUN	5.55	229	P	48	25.40	0.1
KKN	6.02	232	P	48	31.80	-0.1
PKI	6.08	230	P	48	32.80	-0.1
SHL	6.13	169	eP	48	33.40	0.0
DMN	6.26	232	P	48	35.40	0.1
GKN	6.34	237	P	48	35.80	-0.5
SZP	30.40	110	iPc	53	37.60	23.6X
MLR	51.14	305	eP	56	06.00	1.5
HFS	56.76	324	eP	56	44.60	-0.8
	0.5s	1.00nm			4.1mb	
WB2	66.22	135	eP	57	50.00	0.5
	0.6s	1.50nm			4.3mb	
YKA	84.04	11	eP	59	29.90	-0.8
	0.8s	0.60nm			3.8mb	
S.D. = 0.8 on 10 of 11 obs.						

• MAR 23, 1991 06h 00m 06.09± 2.29s
45.178 N ±11.7km 5.922 E ±18.9km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.3 (LDG).

BNI	0.55	103	P	00	17.00	-0.2
			eSg	00	21.50	
LPL	0.66	59	Pg	00	19.60	0.1
			Sg	00	30.80	
LPG	0.67	61	Pg	00	19.40	-0.2
FRF	1.70	162	Pg	00	35.00	-0.9
			Sg	00	56.20	
SBF	1.70	140	Pg	00	36.80	0.8
			Sg	00	58.90	
LRG	1.75	169	Pg	00	37.00	0.3
			Sg	00	59.00	
S.D. = 0.7 on 6 of 6 obs.						

• MAR 23, 1991 06h 02m 56.98± 1.39s
36.581 N ±13.3km 71.034 E ± 7.7km
DEPTH = 204.3 ± 17.5 km
3.9mb (6 obs.)
AFGHANISTAN-USSR BORDER REGION (717)

QUE	7.23	209	eP	04	41.50	0.3
			eS	05	59.30	
NDI	9.44	145	iPc	05	09.50	-0.3
	0.5s	16.90nm			4.6mb	
			iS	06	46.50	
GKN	14.32	123	P	06	12.00	0.0
DMN	14.89	123	P	06	19.40	0.3
KKN	14.90	122	P	06	19.00	-0.1
PKI	15.12	122	P	06	22.00	0.0
GUN	15.23	120	P	06	23.40	0.0
HFS	43.02	322	eP	10	37.30	-0.2
	0.9s	4.60nm			4.0mb	
NB2	44.33	323	P	10	47.50	-0.5
	0.8s	2.80nm			3.8mb	
MBC	67.26	3	eP	13	31.00	0.3
INK	73.82	9	eP	14	10.50	0.4
YKA	81.16	3	eP	14	50.50	0.1
	0.5s	0.80nm			3.7mb	
WRA	82.01	122	P	14	56.00	0.5
	0.8s	0.60nm			3.4mb	
WB2	82.02	122	iPc	14	54.80	-0.7
	0.5s	1.60nm			4.0mb	
S.D. = 0.4 on 14 of 14 obs.						

MAR 23, 1991 06h 37m 29.63± 0.76s
41.038 N ± 7.2km 22.487 E ± 6.0km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.0 (SKO). MD 1.6 (THE).

GRG	0.10	218	iPc	37	33.20	0.8
			eS	37	35.44	
VAY	0.29	13	iPg	37	35.60	-0.1
			iSg	37	39.60	
KNT	0.33	68	ePc	37	37.56	1.0
			eS	37	42.88	
THE	0.54	138	ePd	37	41.08	0.4
			eS	37	49.12	
SOH	0.69	108	iP	37	42.00	-1.4
SRS	0.84	84	ePd	37	45.64	-0.2
FNA	0.88	254	iP	37	46.00	-0.6
S.D. = 1.0 on 7 of 7 obs.						

MAR 23, 1991 06h 52m 25.55± 0.49s
31.263 S ± 7.5km 179.853 E ± 9.8km
DEPTH = 408.1 ± 5.3 km
4.7mb (6 obs.)
KERMADEC ISLANDS REGION (177)

PUZ	6.92	191	eP	54	07.60	-1.6
			S	55	29.60	
WLZ	7.44	207	eP	54	15.70	0.6
TAZ	7.48	201	eP	54	15.90	0.5
NOZ	7.49	191	eP	54	12.40	-3.2X
WHH	8.09	199	P	54	22.20	-0.3
HITZ	8.15	203	eP	54	24.30	1.2
RATZ	8.29	203	eP	54	25.00	0.2
CNZ	8.66	203	eP	54	28.70	-0.5
PGZ	9.77	196	eP	54	38.40	-3.5X
MNG	9.98	200	eP	54	39.30	-5.0X
			eS	56	30.80	
KIW	10.38	201	eP	54	44.80	-4.1X
CAW	10.56	200	eP	54	46.00	-4.9X
WDW	10.72	200	eP	54	48.50	-4.3X
MRW	10.78	201	eP	54	49.40	-4.0X
MOW	10.79	199	eP	54	50.00	-3.6X
WEL	10.81	201	P	54	51.00	-2.7X
			S	56	48.00	
TCW	10.90	203	eP	54	49.70	-5.1X

CCW	11.40	202	eP	54	58.00	-2.7X
THZ	11.87	206	eP	55	02.30	-4.0X
			S	57	11.00	
KHZ	12.22	203	P	55	06.10	-4.0X
			eS	57	16.60	
LTZ	12.99	206	eP	55	15.30	-2.9X
			eS	57	33.90	
MOZ	13.67	203	P	55	22.80	-2.7X
DZM	15.07	304	iPc	55	42.00	1.4
MMCZ	16.08	208	eP	55	49.80	-1.2
ASPA	41.23	269	iPd	59	34.20	-0.1
	0.5s	6.40nm			4.2mb	
			i	01	11.10	
			iScP	04	36.70	
			eS	05	11.30	
WB2	42.29	274	iPc	59	42.50	-0.3
	0.2s	41.00nm			5.4mb	
			iPP	00	02.10	
			iPcP	02	08.20	
			iScP	04	41.40	
			iS	05	32.80	
WRA	42.30	274	P	59	42.00	-0.9
	0.3s	20.80nm			5.0mb	
FORR	43.99	257	eP	59	56.00	-0.1
SPA	58.91	180	iPd	01	46.50	1.1
	0.9s	46.82nm			4.9mb	
			i	02	30.00	
PRS	86.91	44	eP	04	26.90	0.5
BRK	87.45	42	eP	04	28.20	-0.7
PLM	87.73	48	ePd	04	20.60	-10.0X
FRI	88.35	44	eP	04	33.20	0.0
CMB	88.64	43	eP	04	34.90	0.3
ORV	89.03	41	e(P)	04	36.20	-0.1
WDC	89.15	40	eP	04	37.30	0.5
TNP	90.55	45	eP	04	43.00	-0.6
	0.6s	4.63nm			4.5mb	
FBA	99.12	13	e(P)	05	19.70	-2.1
YKA	107.02	26	ePdiff	05	58.70	1.7
	0.7s	0.30nm			4.5mb	
YKA	107.02	26	ePKP	10	02.40	-1.8
	0.5s	1.00nm				
PDCR	122.60	133	(PKP)	10	35.00	-0.3
FRB	127.07	31	ePKP	10	41.00	-1.5
BCAO	148.05	217	ePKPc	11	22.00	0.0
	0.2s	104.00nm				
			id	11	26.10	
NB2	149.29	349	PKP	11	26.40	3.9X
	0.5s	13.40nm				
LIC	154.67	169	PKP	11	32.70	1.2
KIC	154.85	169	PKP	11	32.80	1.0
	0.7s	4.50nm				
TIC	155.09	168	PKP	11	33.00	0.9
LKO	157.80	166	PKP	11	36.46	0.9
	0.9s	16.00nm				

S.D. = 1.0 on 31 of 48 obs.

& MAR 23, 1991 07h 08m 38.50s
36.682 N 121.363 W
DEPTH = 3.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 3.0 (BRK).

SAO	0.11	322	iP	08	40.50	-0.2
LLA	0.34	101	iP	08	45.30	-0.1
PRS	0.35	181	iP	08	45.40	-0.1
GCC	0.62	305	iPd	08	50.20	-0.6
			eS	09	00.80	
ARN	0.68	349	iPc	08	51.80	-0.3
MHC	0.70	341	iPd	08	52.50	0.1
PRI	0.78	134	iPd	08	53.30	-0.8
			iS	09	05.80	
PCC	1.15	315	iPd	08	59.10	-1.6
PKEM	1.19	121	eP	09	01.00	-0.3
FRI	1.36	76	ePc	09	02.40	-1.9
			iS	09	20.30	
BKS	1.38	330	eP	09	04.90	0.3
BRK	1.39	329	ePc	09	02.20	-2.5
			iS	09	26.00	
ZSP	1.45	331	iPd	09	03.40	-2.2
CMB	1.56	30	ePd	09	05.40	-1.8
			iS	09	26.00	
BCH	1.82	145	eP	09	08.00	-3.0
ABL	2.52	136	eP	09	18.30	-3.0
ORV	2.87	358	eP	09	24.00	-2.0

17 obs. associated

MAR 23, 1991 07h 41m 16.32± 0.62s
49.095 N ± 4.3km 6.858 E ± 7.7km
DEPTH = 10.0km (geophysicist)
GERMANY (543)
MD 2.7 (STR).

GWF	0.52	103	Pg	41	26.26	-0.5
			Sg	41	33.85	
RUP	0.62	12	ePg	41	27.27	-1.6
CDF	0.74	158	Pg	41	30.52	-0.3
WLS	0.76	154	Pg	41	31.10	-0.1
ECH	0.90	167	Pg	41	33.87	0.3
			Sg	41	47.06	
VITF	1.05	214	Pg	41	35.94	-0.2
			Sg	41	51.29	
MOF	1.26	172	Pg	41	39.86	0.1
			Sg	41	58.91	
BSF	1.26	182	Pg	41	40.23	0.3
FEL	1.44	147	Pg	41	43.63	1.0
TNS	1.53	42	ePnc	41	45.00	1.2
			eSn	42	04.90	
MEM	1.61	340	iP	41	45.70	0.8
LOMF	1.75	181	Pn	41	45.84	-1.1
SNF	2.19	311	iP	41	57.30	4.1X

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

MAR 23, 1991 08h 41m 00.41± 0.17s
33.876 N ± 4.0km 38.969 W ± 2.2km
DEPTH = 10.0km (geophysicist)
5.0mb (55 obs.) 5.0Msz (11 obs.)
NORTH ATLANTIC RIDGE (403)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 36C
Centroid Location:
Origin Time 08:41: 6.4 1.4
Lat 34.09N 0.11 Lon 38.88W 0.15
Dep 15.0 FIX Half-duration 1.6
Moment Tensor; Scale 10**16 Nm
Mrr=-1.60 0.58 Mtt= 5.30 0.81
Mff=-3.71 0.79 Mrt=-2.59 2.42
Mrf= 0.66 1.87 Mtf= 7.89 0.62
Principal Axes:
T Val= 10.20 Plg= 9 Azm=151
N -1.41 72 271
P -8.79 15 58
Best Double Couple:Mo=9.5*10**16
NP1:Strike=195 Dip=73 Slip=-176
NP2: 104 86 -17

CBM	25.58	309	P	46	31.20	0.1
TOL	28.45	68	eP	46	57.50	0.1
			eS	51	40.00	
SCH	28.56	326	eP	46	57.00	-1.2
LPF	31.60	52	eP	47	25.20	-0.1
	1.0s	32.00nm			5.2mb	
GRR	31.80	51	eP	47	26.50	-0.5
	1.2s	32.75nm			5.1mb	
EPF	31.87	62	eP	47	27.70	-0.1
MFF	31.92	55	eP	47	28.20	0.0
	1.3s	65.00nm			5.4mb	
FLN	32.12	51	eP	47	29.60	-0.3
	1.2s	35.70nm			5.2mb	
	Z 19s	4.25um			5.2Msz	
LFF	32.31	58	eP	47	31.00	-0.6
	1.1s	26.85nm			5.1mb	
LDF	32.32	51	eP	47	31.30	-0.3
	1.4s	52.30nm			5.3mb	
LPO	32.60	59	eP	47	33.50	-0.6
	0.9s	19.65nm			5.0mb	
EKA	32.77	38	Pd	47	41.00	5.6X
	0.9s	9.80nm			4.7mb	
RJF	32.90	58	eP	47	35.80	-0.9
	Z 19s	3.75um			5.1Msz	
LSF	33.02	56	eP	47	37.40	-0.3
	1.4s	74.05nm			5.4mb	
CAF	33.25	58	eP	47	39.20	-0.6
	1.0s	18.00nm			5.0mb	
TCF	33.49	56	eP	47	41.50	-0.4
	1.2s	46.10nm			5.3mb	
MAF	33.73	56	eP	47	43.70	-0.2
	1.4s	34.85nm			5.1mb	
BGF	33.96	55	eP	47	45.30	-0.6
	1.3s	34.30nm			5.1mb	
AVF	34.33	55	eP	47	49.00	-0.1
	1.1s	17.10nm			4.9mb	
SSF	34.47	55	eP	47	49.80	-0.5
	1.2s	22.30nm			4.9mb	
SMF	34.65	55	eP	47	51.60	-0.3
	1.4s	61.00nm			5.3mb	
LOR	34.73	54	eP	47	52.00	-0.6
	0.9s	19.65nm			5.0mb	
	Z 20s	2.75um			5.0Msz	
LBF	34.78	55	eP	47	52.30	-0.7
	1.2s	26.80nm			5.0mb	
SNF	35.52	49	Pc	48	00.00	0.8
DOU	35.64	50	P	47	59.80	-0.4
GDH	36.36	351	ePd	48	06.00	0.0
	0.8s	29.85nm			5.2mb	
			e	57	46.00	
FRF	36.48	61	eP	48	07.60	0.1
	1.1s	17.10nm			4.8mb	
HAU	36.49	53	eP	48	07.00	-0.5
	0.8s	13.45nm			4.8mb	
	Z 22s	1.92um			4.8Msz	
LPL	36.58	58	eP	48	09.10	0.6
	1.0s	9.00nm			4.5mb	
LPG	36.59	58	eP	48	09.30	0.6
	1.3s	19.85nm			4.8mb	
BSF	36.77	54	eP	48	09.50	-0.4
	1.1s	19.55nm			4.8mb	
CDF	37.15	53	eP	48	12.60	-0.5
	0.9s	32.75nm			5.1mb	
LKO	39.05	121	P	48	28.36	-0.9
	1.2s	35.00nm			4.9mb	
OGA	39.59	56	iPc	48	38.40	4.7X
FIR	39.82	60	e(P)	48	40.00	4.6X
GRF	39.84	51	eP	48	36.20	0.7
	Z 20s	1.70um			4.9Msz	
		e		48	38.30	
		e		48	41.60	
		e(S)		54	38.50	
CTI	40.02	57	P	48	39.50	2.3
MOX	40.17	50	eP	48	39.00	0.8
	Z 20s	2.60um			5.1Msz	
	E 20s	1.70um				
CLL	41.10	49	eP	48	46.00	0.3
	1.3s	21.00nm			4.7mb	
KBA	41.18	55	e(P)	48	40.00	-6.7X
	1.4s	14.60nm			4.5mb	
		e		48	48.00	
KHC	41.35	52	iP	48	48.50	0.5
	1.4s	14.50nm			4.5mb	
	Z 20s	1.00um			4.7Msz	
	N 18s	0.50um				
	E 18s	1.00um				
FVM	41.44	291	P	48	49.10	0.4
	0.9s	21.19nm			4.9mb	
TIC	41.47	123	P	48	48.30	-0.9
LIC	41.76	124	Pc	48	50.82	-0.7
	1.0s	22.00nm			4.8mb	
	Z 20s	0.73um			4.5Msz	
KIC	41.86	123	Pc	48	51.64	-0.8
	1.0s	21.00nm			4.8mb	
NB2	41.93	34	P	48	53.20	0.7
	0.9s	13.10nm			4.7mb	
PRU	42.00	51	eP	48	53.50	0.3
	1.8s	53.10nm			5.0mb	
	Z 18s	1.90um			5.0Msz	
	N 19s	0.60um				
	E 18s	1.50um				
		S		55	17.00	
HFS	42.87	36	eP	49	00.30	0.1
	0.9s	8.00nm			4.4mb	
KSP	43.15	50	eP	49	03.00	0.4
SGO	43.16	65	P	49	03.40	0.6
MGR	43.41	65	P	49	05.40	0.5
ZST	43.69	53	eP	49	07.50	0.5
		e		15	39.70	
DAG	43.97	7	eP	49	09.00	0.1
SRO	44.53	54	i(P)	49	15.80	2.0
BUD	45.03	54	e(P)	49	18.00	0.2
KRA	45.48	51	eP	49	24.40	3.0X
SPC	45.73	52	eP	49	23.20	-0.4
TUL	46.09	289	iPc	49	25.60	-0.7
	1.0s	53.40nm			5.5mb	
	Z 19s	0.49um			4.5Msz	
		LR		03	14.00	
PDCR	46.15	180	(P)	49	28.00	1.1
BZS	47.00	57	eP	49	32.00	-1.4
OHR	47.16	63	eP	49	40.00	5.1X
SKO	47.47	62	iP	49	37.20	0.0
FFC	47.86	316	iPc	49	40.60	0.5
	1.1s	32.00nm			5.3mb	
NUR	48.31	36	eP	49	43.80	0.3

23d 08h

	0.4s	1.60nm		4.4mb		
VAY	48.43	62 eP	49 44.70	0.0		
MEO	48.59	289 iPc	49 45.90	-0.2		
KAF	49.21	34 eP	49 50.20	-0.2		
	0.9s	9.50nm		4.8mb		
SOD	49.86	27 eP	49 56.00	0.6		
MLR	50.02	56 eP	49 58.00	0.9		
KEV	50.36	24 eP	49 58.00	-1.1		
RSSD	50.39	302 P	49 59.00	-1.0		
	1.5s	11.52nm		4.6mb		
VRI	50.49	56 ePd	50 01.50	1.0		
GLD	52.29	297 P	50 14.20	-0.2		
	1.0s	30.00nm		5.2mb		
GOL	52.42	297 P	50 15.00	-0.5		
	1.0s	20.50nm		5.0mb		
SES	53.83	311 ePc	50 24.40	-1.0		
YKA	54.04	326 eP	50 24.90	-1.8		
	1.0s	8.00nm		4.7mb		
BW06	54.62	302 P	50 30.90	-0.7		
	1.0s	43.33nm		5.4mb		
ANMO	54.69	292 P	50 32.20	0.0		
	1.0s	52.50nm		5.5mb		
ALO	54.69	292 eP	50 32.20	0.0		
	1.0s	13.25nm		4.9mb		
EDM	54.69	315 ePc	50 31.00	-0.8		
MBC	55.12	343 ePc	50 34.50	0.0		
	1.0s	31.00nm		5.3mb		
PV09	55.57	297 P	50 38.80	0.2		
LRM	55.81	306 eP	50 39.80	-0.4		
DAU	56.53	299 P	50 45.00	-0.5		
PPD	56.82	194 (P)	50 48.00	0.6		
VAO	57.07	189 eP	50 54.30	5.1X		
ZOBO	57.09	214 P	50 50.50	0.5		
	1.2s	21.96nm		5.1mb		
Z	24s	0.96um		4.8MszX		
		LR	08 38.00			
CCH	57.18	211 P	50 50.90	0.6		
LPB	57.30	214 P	50 51.00	-0.3		
	1.2s	125.00nm		5.8mb		
Z	20s	1.77um		5.2Msz		
		LR	08 42.00			
CNCB	57.49	213 P	50 53.50	0.7		
MSU	57.82	297 P	50 54.20	-0.4		
NEW	58.20	310 P	50 56.00	-0.9		
	1.0s	59.00nm		5.6mb		
INK	60.63	335 ePc	51 14.00	0.7		
	1.2s	69.00nm		5.7mb		
BCAO	60.77	106 iPc	51 14.00	-1.1		
	0.9s	14.00nm		5.1mb		
TNP	61.67	299 P	51 20.50	-0.6		
	1.0s	11.25nm		5.0mb		
GLA	61.84	293 eP	51 23.00	0.9		
KVN	61.95	300 P	51 22.00	-0.9		
TPC	62.35	294 eP	51 26.00	0.5		
GSC	62.45	296 eP	51 27.00	0.8		
CLC	62.83	296 eP	51 29.00	0.3		
PLM	63.28	294 eP	51 32.00	0.2		
PEC	63.28	294 P	51 32.20	0.5		
BAR	63.41	293 eP	51 23.00	-9.5X		
SBB	63.46	295 eP	51 33.00	0.2		
MWC	63.83	295 eP	51 35.00	-0.4		
FRI	63.92	298 eP	51 35.60	-0.1		
MIN	63.94	302 eP	51 35.40	-0.7		
CMB	63.99	300 eP	51 36.70	0.4		
ORV	64.18	302 eP	51 37.20	-0.2		
LLA	64.98	298 eP	51 42.90	0.2		
SYP	65.14	296 eP	51 45.00	1.1		
FHC	65.42	304 eP	51 46.00	0.5		
BALM	66.99	329 P	51 55.70	0.4		
FBA	67.21	334 P	51 57.00	0.5		
	1.2s	8.33nm		4.8mb		
KLU	68.26	330 P	52 03.50	0.3		
IMA	68.61	337 ePc	52 06.70	1.3		
	1.8s	47.10nm		5.4mb		
PMR	69.51	331 eP	52 12.10	1.4		
SVW	72.32	333 eP	52 28.20	0.3		
QUE	85.41	57 eP	53 41.10	1.3		
SLR	87.10	124 eP	53 47.00	-0.9		
WRA	164.90	25 PKP	01 11.00	5.0X		
	1.0s	2.00nm				

S.D. = 0.7 on 112 of 121 obs.

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* MAR 23, 1991 08h 42m 52.93± 2.30s
37.824 N ±13.9km 20.662 E ±21.1km
DEPTH = 10.0km (geophysicist)
IONIAN SEA (399)
MD 3.4 (ATH).

VLS	0.36	351 ePg	43 00.80	0.5		
AGG	1.77	47 eP	43 24.40	0.5		
KEK	2.00	341 ePg	43 33.00	5.8X		
VLI	2.12	121 ePn	43 29.00	0.1		
KZN	2.63	19 ePg	43 37.00	0.9		
FNA	3.01	10 eP	43 41.00	-0.5		
OHR	3.28	2 ePn	43 45.00	-0.5		
SOH	3.65	34 eP	43 50.00	-0.7		
KNT	3.76	27 eP	43 51.90	-0.3		

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

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* MAR 23, 1991 09h 26m 39.43± 1.99s
36.615 N ±18.8km 11.753 E ±11.4km
DEPTH = 10.0km (geophysicist)
3.3mb (2 obs.)
TUNISIA (397)

ERC	1.57	25 P	27 06.20	-1.2		
FAI	1.68	66 P	27 09.70	0.8		
		eSn	27 39.50			
MCT	1.81	55 P	27 12.10	1.0		
		eSn	27 43.40			
GIB	2.27	52 P	27 18.00	0.3		
		eSn	27 52.50			
USI	2.38	28 P	27 19.20	0.2		
MEU	2.59	78 P	27 20.00	-2.2		
MNO	2.69	60 P	27 25.00	1.3		
		eSn	28 02.00			
ATN	3.33	61 P	27 33.00	0.3		
SOI	3.72	66 P	27 37.90	-0.3		
MGR	4.61	39 P	27 50.40	-0.4		
TDS	4.72	49 P	27 52.70	0.3		
SGO	4.82	34 P	27 53.50	-0.3		
MLR	13.89	46 eP	30 12.00	13.4X		
CLL	14.72	3 e(P)	30 19.00	9.7X		
HFS	23.57	2 eP	31 50.20	-0.4		
	0.6s	0.70nm		3.4mb		
YKA	72.27	337 eP	38 07.10	0.6		
	0.4s	0.10nm		3.3mb		

S.D. = 1.0 on 14 of 16 obs.

? MAR 23, 1991 09h 34m 47.00± 0.97s
22.895 N ±10.0km 120.688 E ± 6.3km
DEPTH = 10.0km (geophysicist)
TAIWAN (244)

TWM1	0.25	254 iPd	34 52.30	-0.1		
TWG	0.36	102 iPd	34 54.60	0.1		
		eS	35 00.40			
TWK	0.41	334 iPc	34 55.60	0.1		
		eS	35 02.10			
TWF1	0.72	51 ePc	35 01.00	-0.2		
		eS	35 12.00			

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

MAR 23, 1991 10h 04m 55.06± 0.15s
12.257 S ± 4.1km 166.897 E ± 3.7km
DEPTH = 212.9km (2 depth phases)
5.0mb (35 obs.)
SANTA CRUZ ISLANDS (184)

HNR	7.38	292 eP	06 42.00	0.9		
		eS	08 21.00			
SVO	7.61	293 eP	06 47.00	2.8X		
		eS	08 25.00			
VSG	7.66	292 eP	06 45.00	0.1		
DZM	9.77	182 iPc	07 14.00	1.8		
		iS	09 04.00			
PMG	19.60	276 eP	09 09.00	0.0		
CTA	21.28	246 iPd	09 27.80	2.0		
	0.7s	36.30nm		5.0mb		
		i	10 02.00			
RMO	22.17	228 iPc	09 36.10	1.8		
	0.8s	45.00nm		5.1mb		
		e	10 11.00			
CMS	27.26	222 eP	10 22.00	0.4		
		e	11 04.00	210km		
MNG	29.24	167 P	10 38.00	-1.2		
PGZ	29.43	165 P	10 39.00	-1.8		
THZ	29.86	171 P	10 45.00	0.3		
KHZ	30.60	170 eP	10 50.60	-0.4		
LTZ	30.77	172 P	10 52.20	-0.4		
WB2	32.14	252 iPd	11 03.90	-0.9		
	0.4s	3.60nm		4.4mb		
WRA	32.15	252 P	11 11.00	6.1X		
	0.7s	1.20nm		3.6mb X		
ASPA	33.29	245 iPc	11 14.20	-0.5		

	0.5s	7.10nm		4.6mb		
		ipP	11 58.70	216km		
		eS	16 15.50			
WARB	40.28	244 eP	12 14.00	0.9		
KAKJ	54.40	333 P	14 01.80	-0.5		
CHJJ	54.80	332 eP	14 04.20	-0.9		
IIDJ	54.83	331 P	14 05.00	-0.5		
MAT	55.56	332 iPc	14 09.20	-1.5		
	0.9s	37.82nm		5.1mb		
NIIJ	55.78	333 P	14 11.50	-0.7		
MTMJ	55.78	332 P	14 11.50	-0.8		
TSRJ	55.81	330 P	14 12.20	-0.2		
SSE	61.50	316 iPd	14 51.00	-0.6		
	1.0s	49.00nm		5.2mb		
NJ2	63.67	315 Pd	15 06.80	0.9		
	1.0s	100.00nm		5.6mb		
MDJ	65.94	332 Pc	15 20.00	-0.3		
	1.2s	80.00nm		5.3mb		
WHN	66.03	311 eP	15 21.10	0.0		
CN2	67.35	329 iPc	15 29.10	-0.1		
	0.5s	60.00nm		5.6mb		
IPM	67.57	280 ePc	15 31.80	0.7		
	1.1s	50.10nm		5.2mb		
GYA	70.03	304 P	15 46.20	0.1		
BJI	70.13	321 eP	15 46.50	0.3		
	1.0s	35.00nm		5.0mb		
Z	18s	0.41um		4.7Msz		
TIY	71.21	317 iPc	15 53.50	0.6		
	1.0s	50.00nm		5.2mb		
HHC	73.48	319 Pc	16 07.00	0.9		
CHTO	73.74	294 iP	16 08.20	0.3		
	1.0s	21.25nm		4.8mb		
CD2	74.23	307 P	16 11.00	0.4		
	0.8s	30.00nm		5.1mb		
BTO	74.34	319 eP	16 11.60	0.5		
LZH	76.40	312 iPc	16 24.50	1.6		
	1.0s	75.00nm		5.4mb		
SPA	77.82	180 iPc	16 30.30	0.1		
	0.8s	10.42nm		4.6mb		
SVW	78.91	18 P	16 37.40	1.4		
	1.1s	18.75nm		4.7mb		
RSO	79.28	19 P	16 40.00	1.8		
ANM	79.43	12 P	16 39.40	0.8		
SLKM	80.15	20 P	16 41.90	-0.6		
GTA	80.71	314 iPc	16 47.00	1.0		
	1.0s	20.00nm		4.8mb		
PMR	81.30	20 P	16 48.20	-0.3		
	0.9s	33.33nm		5.1mb		
KLU	82.32	21 P	16 54.00	0.1		
PCC	82.60	49 eP	16 56.30	0.6		
TOA	82.66	20 P	16 56.20	0.6		
	0.7s	93.02nm		5.6mb		
GCC	82.71	50 eP	16 56.80	0.5		
BRK	82.83	49 eP	16 57.90	1.1		
BKS	82.84	49 eP	16 57.20	0.2		
	0.8s	84.00nm		5.5mb		
PRS	82.94	51 eP	16 58.20	0.7		
SAO	83.03	50 eP	16 58.60	0.7		
MHC	83.09	50 eP	16 59.00	0.6		
BALM	83.30	22 P	16 59.70	0.8		
LLA	83.36	50 eP	17 00.50	0.9		
IMA	83.37	15 P	16 59.00	-0.2		
	0.8s	12.28nm		4.7mb		
PRI	83.40	51 ePc	17 01.00	1.0		
WDC	83.62	46 ePc	17 01.50	0.7		
ORV	83.99	48 eP	17 03.00	0.3		
FBA	84.12	18 P	17 02.30	-0.5		
	0.9s	116.67nm		5.6mb		
MIN	84.20	47 eP	17 04.00	0.1		
CMB	84.27	49 ePc	17 04.70	0.5		
FRI	84.42	50 iPc	17 05.30	0.5		
MWC	84.78	54 eP	17 07.00	0.0		
SBB	85.11	53 eP	17 09.00	0.5		
RVR	85.25	54 eP	17 10.00	0.9		
PEC	85.39	54 P	17 10.00	0.2		
PLM	85.46	55 eP	17 10.00	-0.4		
CLC	85.64	52 eP	17 11.00	-0.1		
BONR	85.79	50 P	17 12.50	0.4		
GSC	86.10	53 eP	17 14.00	0.6		
KVN	86.30	49 P	17 14.80	0.4		
TPC	86.33	54 eP	17 15.00	0.5		
TNP	86.64	50 P	17 16.00	-0.1		
	1.1s	9.09nm		4.5mb		
GLA	87.00	55 eP	17 19.00	1.3		
GUN	87.89	299 PKP	17 22.80	0.3		
PKI	88.20	299 PKP	17 24.00	0.0		
	0.6s	22.00nm		5.2mb		

23d 10h

KKN 88.37 299 PKP 17 24.80 0.2
0.8s 42.00nm 5.4mb
DMN 88.47 299 PKP 17 25.40 0.2
GKN 88.97 299 PKP 17 26.80 -0.6
0.8s 46.00nm 5.5mb
NEW 89.93 40 P 17 31.00 -0.2
1.1s 21.60nm 5.0mb
MSU 90.57 51 P 17 35.50 0.9
INK 90.68 19 eP 17 33.00 -1.1
WMQ 90.74 315 P 17 35.50 0.4
1.0s 20.00nm 5.1mb
HYB 92.05 287 eP 17 41.60 0.1
LRM 92.28 44 eP 17 42.80 0.5
GBA 92.31 283 Pc 17 42.10 -0.6
0.8s 3.90nm 4.5mb
PV09 92.88 51 P 17 46.00 0.7
BW06 93.55 47 P 17 48.00 -0.2
1.0s 3.00nm 4.4mb
ALQ 94.20 55 eP 17 51.10 -0.3
0.9s 3.15nm 4.5mb
ANMO 94.20 55 P 17 51.00 -0.3
SES 94.34 39 ePc 17 51.10 -0.3
YKA 95.53 27 eP 17 54.60 -1.9
0.5s 4.20nm 5.0mb
GOL 95.99 51 P 17 59.50 0.0
1.0s 2.75nm 4.5mb
FFC 100.54 36 ePdiff 18 19.00 -0.4
0.7s 8.00nm 5.3mb
FRB 115.82 24 ePKP 23 19.00 5.8X
KEV 117.26 345 iPKP 23 15.80 0.0
0.6s 11.70nm
SCH 120.47 33 ePKP 23 22.00 -0.4
KAF 122.77 339 iPKP 23 25.80 -0.7
.0.6s 11.20nm
NUR 124.45 338 iPKP 23 29.50 -0.3
0.6s 23.30nm
NB2 128.16 345 PKP 23 36.70 -0.4
0.6s 6.10nm
HFS 128.27 343 ePKP 23 36.10 -1.1
0.8s 7.50nm
CLL 135.66 337 ePKP 23 51.00 -0.5
PRU 136.06 334 ePKP 23 52.00 -0.4
KHC 137.12 334 ePKP 23 54.40 -0.1
OHR 138.70 320 ePKP 23 47.20 -10.4X
DOU 139.56 342 PKP 23 55.00 -3.8X
e 24 01.40
CDF 140.16 339 ePKP 23 54.40 -5.7X
FLN 142.12 346 ePKP 23 57.70 -5.7X
0.6s 13.55nm
LDF 142.20 346 ePKP 23 57.90 -5.7X
ORX 142.21 336 PKP 23 57.78 -6.1X
LOR 142.30 341 ePKP 23 58.70 -5.1X
0.9s 9.85nm
LBF 142.51 341 ePKP 23 59.40 -4.8X
0.9s 9.00nm
GRR 142.56 347 ePKP 23 59.00 -5.2X
1.0s 18.00nm
SSF 142.59 341 ePKP 24 00.10 -4.2X
0.9s 13.10nm
LSD 142.68 336 PKP 24 01.16 -3.7X
LPL 142.80 337 ePKP 24 02.10 -2.9X
0.8s 10.75nm
LPG 142.81 337 ePKP 24 02.40 -2.7X
0.8s 14.10nm
SMF 142.85 341 ePKP 24 00.90 -3.9X
1.0s 13.00nm
PCP 142.86 334 PKP 24 01.26 -3.7X
AVF 142.88 341 ePKP 24 00.80 -4.0X
0.7s 5.50nm
RSP 142.89 336 PKP 24 00.44 -4.6X
LPF 142.94 347 ePKP 24 01.10 -3.7X
0.9s 19.65nm
BHB 143.15 336 PKP 24 00.14 -5.2X
BGF 143.25 342 ePKP 24 03.10 -2.3X
0.8s 22.15nm
FIN 143.27 334 PKP 24 01.57 -4.0X
RRL 143.27 336 PKP 24 03.11 -2.7X
ROB 143.34 334 PKP 24 02.19 -3.6X
PZZ 143.49 335 PKP 24 01.26 -4.8X
PLDF 143.52 340 PKP 24 04.60 -1.4
ENR 143.59 335 PKP 24 02.19 -4.0X
FOUF 143.60 336 e(PKP) 24 03.71 -2.3X
i 24 04.24
STV 143.61 335 PKP 24 01.98 -4.3X
MAF 143.64 342 ePKP 24 04.50 -1.6
1.2s 37.20nm
IMI 143.65 334 PKP 24 03.52 -2.8X

TCF 143.68 342 ePKP 24 04.30 -1.9
0.8s 16.80nm
SSB 143.81 339 PKP 24 05.17 -1.3
SBF 143.88 335 ePKP 24 04.20 -2.5X
PYM 143.92 341 PKP 24 05.90 -0.8
LSF 143.92 343 ePKP 24 04.90 -1.7
0.8s 41.65nm
MFF 144.06 345 ePKP 24 05.50 -1.3
0.8s 51.05nm
PGF 144.23 332 ePKP 24 05.80 -1.6
LBL 144.30 340 PKP 24 07.00 -0.2
PDCR 144.32 133 ePKP 24 05.30 -2.9X
FRF 144.45 335 ePKP 24 06.10 -1.5
LRG 144.66 335 ePKP 24 07.00 -0.9
0.9s 106.45nm
LMR 144.70 335 ePKP 24 07.20 -0.8
0.9s 104.85nm
CDR 144.72 336 iPKPc 24 07.70 -0.3
RJF 144.78 342 ePKP 24 07.40 -0.7
1.1s 102.55nm
CAF 144.95 341 ePKP 24 08.40 0.0
1.0s 47.00nm
SOB1 145.11 126 ePKP 24 08.60 -1.0
LFF 145.34 343 ePKP 24 09.90 0.9
0.6s 38.80nm
LPO 145.44 342 ePKP 24 10.10 0.9
0.7s 36.40nm
EPF 147.20 342 ePKP 24 15.40 3.2X
0.7s 7.15nm
BCAO 147.77 259 ePKPc 24 14.90 1.0
0.3s 25.00nm
ic 24 16.90
id 25 11.00
TOL 151.35 345 ePKPc 24 25.50 6.9X
0.8s 37.31nm
S.D. = 0.8 on 122 of 157 obs.

& MAR 23, 1991 10h 05m 55.00s
36.070 N 89.790 W
DEPTH = 8.1km
NEW MADRID, MISSOURI REGION (486)
<SLM-P>. MD 2.8 (SLM). Felt (V) at Steele; (IV) at Holland and Coater; (III) at Braggadocio.

ECD 0.12 265 iPc 05 57.64 -0.2
S 06 00.24
HATI 0.14 41 iP 05 58.42 0.3
S 06 00.61
OHTN 0.23 70 eP 05 59.62 -0.2
S 06 02.73
CBD 0.27 24 iP 06 00.49 -0.1
S 06 03.68
MFTN 0.33 74 iPc 06 01.67 -0.2
S 06 06.01
WGAR 0.39 236 eP 06 02.95 0.0
OGTN 0.43 35 ePc 06 03.27 -0.4
NRMS 0.45 21 eP 06 03.59 -0.4
ACTN 0.48 54 eP 06 04.21 -0.4
NMMO 0.55 20 eP 06 05.50 -0.6
PGA 0.67 269 eP 06 07.42 -1.1
JHP 0.75 232 eP 06 09.40 -0.4
DWM 0.77 18 eP 06 09.24 -1.0
ELC 1.29 20 eP 06 18.08 -1.1
OLY 1.48 248 eP 06 20.87 -1.0
GOIL 1.56 38 eP 06 23.15 0.1
CSIL 1.75 27 eP 06 25.83 0.0
S 06 50.03
FVM 1.98 345 eP 06 28.52 -0.6
GBTN 4.55 93 eP 07 04.50 -1.2
TKL 4.90 93 eP 07 09.00 -1.8
PRM 6.40 106 eP 07 29.00 -2.9
JSC 7.21 102 eP 07 40.40 -2.8
BLA 7.62 79 e(P) 07 50.00 1.0
CVL 9.26 75 e(P) 08 10.00 -1.7
24 obs. associated

? MAR 23, 1991 11h 36m 52.85± 4.59s
15.181 S ±41.3km 176.231 W ±24.5km
DEPTH = 104.8 ± 41.9 km
4.6mb (11 obs.)
FIJI ISLANDS REGION (181)

DZM 17.78 245 iPc 40 57.00 1.7
WB2 47.22 257 iPd 45 16.40 -0.9
0.7s 6.20nm 4.5mb
WRA 47.23 257 P 45 16.00 -1.4

0.9s 7.00nm 4.5mb
ASPA 47.59 252 ePd 45 17.90 -2.3
0.8s 26.50nm 5.1mb
MWC 73.96 47 eP 48 21.00 2.1
FRI 74.30 44 eP 48 21.80 1.2
SBB 74.37 47 eP 48 23.00 1.9
PLM 74.37 48 eP 48 21.00 -0.3
CMB 74.43 43 eP 48 22.70 1.3
CLC 75.12 46 eP 48 25.00 -0.4
TPC 75.34 48 eP 48 25.00 -1.7
GSC 75.40 47 eP 48 30.00 2.9X
BONR 75.77 44 P 48 29.50 0.2
KVN 76.49 43 P 48 32.00 -1.2
TNP 76.56 44 P 48 33.00 -0.6
1.2s 11.29nm 4.6mb
TTA 79.45 9 P 48 50.00 1.2
1.0s 12.50nm 4.7mb
PMR 79.48 13 P 48 48.60 -0.3
1.0s 9.38nm 4.6mb
NEW 82.09 35 P 49 00.50 -2.4
PV09 82.33 47 P 49 05.00 0.3
FBA 82.72 12 P 49 05.10 -0.7
0.9s 6.25nm 4.5mb
IMA 82.75 9 P 49 06.70 0.6
ALQ 82.77 51 eP 49 05.30 -1.6
1.3s 22.12nm 4.9mb
ANMO 82.77 51 P 49 05.50 -1.4
1.2s 17.97nm 4.8mb
BJI 83.35 314 eP 49 13.00 3.5X
BW06 83.95 43 P 49 12.00 -0.8
1.0s 1.67nm 3.9mb
SES 86.60 36 eP 49 25.00 -0.5
INK 88.73 15 eP 49 35.00 -0.3
YKA 91.00 24 eP 49 45.70 -0.2
1.2s 2.90nm 4.4mb
SPC 143.50 342 e(PKP) 56 17.60 0.6
GRF 145.05 352 ePKP 56 21.00 1.6
KHC 145.20 349 iPKP 56 21.00 1.3
ZST 145.29 344 ePKP 56 20.70 0.9
e 26 06.80
SRO 145.30 343 ePKP 56 19.70 -0.1
e 56 23.70
FLN 146.33 5 ePKP 56 25.50 4.0X
1.0s 16.00nm
Z 22s 0.17um 4.8Msz
LDF 146.53 5 ePKP 56 25.80 4.0X
1.1s 19.55nm
GRR 146.67 6 ePKP 56 26.60 4.6X
0.8s 8.05nm
CDF 146.74 356 ePKP 56 27.20 4.9X
0.9s 6.55nm
LPF 147.00 6 ePKP 56 27.10 4.5X
0.7s 6.60nm
HAU 147.20 357 ePKP 56 28.60 5.6X
0.9s 6.55nm
Z 20s 0.20um 4.9Msz
LOR 148.01 360 ePKP 56 29.10 4.8X
Z 21s 0.20um 4.9Msz
SSF 148.21 0 ePKP 56 30.00 5.4X
1.2s 16.35nm
LBF 148.29 360 ePKP 56 30.00 5.2X
0.7s 5.50nm
BGF 148.71 1 ePKP 56 31.30 5.9X
SKO 149.25 334 ePKP 56 28.50 2.1
LPL 149.66 356 ePKP 56 34.70 7.5X
LPG 149.67 356 ePKP 56 34.20 6.9X
OHR 150.23 334 ePKP 56 34.50 6.6X
S.D. = 1.4 on 32 of 47 obs.

MAR 23, 1991 12h 22m 43.47± 0.78s
7.237 S ± 5.7km 129.360 E ± 9.4km
DEPTH = 94.0 ± 8.0 km
5.1mb (15 obs.)
BANDA SEA (280)

MTN 5.84 163 eP 24 11.40 2.2
KNA 8.48 184 iPd 24 46.50 1.1
eS 26 14.00
WB2 13.53 160 iPc 25 49.70 -3.1X
0.6s 287.50nm 5.9mb
eS 28 10.90
CGP 16.27 343 ePd 26 30.00 2.3
1.0s 6.00nm 3.8mb X
OIS 16.55 144 eP 26 29.50 -1.7
eS 29 22.00
MBL 16.63 213 eP 26 33.00 0.8
0.4s 24.00nm 4.8mb

23d 12h

		eS	29	22.00	
ASPA	16.91	166 iPd	26	34.80	-0.9
	0.4s	196.40nm			5.7mb
	Z 19s	0.40um			3.8MszX
		iS	29	37.70	
PMG	17.74	98 eP	26	47.00	1.1
MAP	18.25	343 eP	26	56.00	3.9X
PLP	18.79	347 eP	27	00.20	1.8
	0.8s	5.00nm			3.9mb X
WARB	19.02	188 iPd	27	01.20	0.4
	0.3s	23.00nm			5.0mb
		eS	30	28.00	
CTA	20.77	130 iPd	27	18.90	-0.1
	1.0s	38.00nm			4.7mb
MEKA	21.85	207 eP	27	31.00	1.3
	0.4s	10.00nm			4.5mb
PGP	22.23	338 ePc	27	35.00	1.6
	0.8s	45.00nm			4.9mb
FORR	23.52	183 eP	27	46.20	0.3
	0.4s	119.00nm			5.6mb
OLP	23.88	145 eP	27	50.50	1.0
		eS	32	15.00	
BAL	26.10	205 eP	28	10.50	0.2
		ePP	28	41.00	
		eS	33	09.00	
KLB	26.54	203 iPd	28	14.70	0.4
		ePP	28	49.00	
		eS	33	16.00	
STK	27.04	157 iPd	28	38.30	19.5X
	0.5s	18.70nm			
		iPP	29	02.80	
		eS	33	51.00	
MUN	27.50	205 eP	28	23.00	0.0
		eS	33	38.00	
NWAO	27.93	202 eP	28	27.00	0.1
		eS	33	49.00	
CMS	28.61	150 eP	28	32.00	-1.0
		eS	34	08.00	
ADE	28.91	164 iPc	28	35.50	-0.2
BRS	29.91	135 iPd	28	43.00	-1.7
BFD	32.13	160 iPc	29	04.00	0.0
	0.9s	35.00nm			5.1mb
CHG	39.62	311 eP	30	07.80	0.1
CHTO	39.62	311 eP	30	07.80	0.1
	1.0s	5.50nm			4.4mb
MAT	44.33	10 iPd	30	42.60	-3.3X
	0.6s	8.00nm			4.7mb
TIY	47.43	342 eP	31	11.00	0.5
LZH	49.32	333 e(P)	31	45.00	19.8X
	1.2s	19.00nm			
		i	32	18.00	
GTA	53.88	332 eP	31	58.00	-1.3
GUN	54.63	312 P	32	04.00	-1.4
	0.6s	32.00nm			5.5mb
PKI	54.80	311 P	32	04.80	-1.7
	0.6s	16.00nm			5.2mb
KKN	55.01	311 P	32	06.00	-1.9
	0.7s	24.00nm			5.3mb
DMN	55.05	311 P	32	06.80	-1.4
	0.6s	17.00nm			5.3mb
GKN	55.61	311 P	32	10.20	-1.9
CSY	60.38	189 eP	33	03.80	19.1X
	0.9s	78.00nm			
WMQ	63.25	327 eP	33	05.50	1.2
YKA	108.24	26 ePKP	40	59.20	-2.6
	0.6s	0.10nm			
LIC	134.70	272 (PKP)	41	53.80	0.0
TIC	134.72	272 (PKP)	41	53.90	0.0
LKO	135.39	276 PKP	41	53.52	-1.6
CNCB	150.59	144 PKP	42	23.00	1.1
LPB	150.74	144 (PKP)	42	22.00	0.1
ZOBO	150.93	144 PKP	42	22.00	-0.4
	S.D. = 1.3	on 39 of 45 obs.			

% MAR 23, 1991 13h 05m 20.30± 0.81s
41.147 N ±12.3km 28.779 E ± 5.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ISK	0.23	111 iPg	05	25.30	0.1
		eSg	05	28.30	
CTT	0.26	270 iPg	05	25.70	-0.2
HRT	0.75	116 ePg	05	34.80	-0.2
DMK	1.02	312 ePn	05	39.70	0.1
KGT	1.32	239 ePn	05	44.80	0.2
	S.D. = 0.2	on 5 of 5 obs.			

% MAR 23, 1991 13h 27m 10.07± 1.05s
44.032 N ±10.4km 7.650 E ± 8.4km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.5 (GEN).

IMI	0.21	125 P	27	14.71	0.0
		S	27	18.42	
ENR	0.26	320 P	27	15.60	0.1
		S	27	19.47	
ROB	0.31	31 P	27	16.49	0.0
		S	27	21.10	
STV	0.32	312 P	27	16.64	0.0
		S	27	20.95	
PZZ	0.62	320 P	27	22.59	0.0
		S	27	30.77	
	S.D. = 0.1	on 5 of 5 obs.			

? MAR 23, 1991 14h 17m 55.67± 4.67s
39.564 N ±37.0km 28.723 E ±14.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

DST	0.08	300 iPg	17	58.30	0.1
BNT	1.00	322 ePg	18	14.70	0.0
		eSg	18	27.70	
EDC	1.02	320 ePg	18	15.00	0.0
YLV	1.12	26 iPn	18	16.70	0.0
KGT	1.41	310 ePn	18	21.20	-0.1
	S.D. = 0.1	on 5 of 5 obs.			

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* MAR 23, 1991 15h 58m 54.55± 1.45s
23.710 N ±11.3km 123.110 E ±12.8km
DEPTH = 10.0km (geophysicist)
4.2mb (2 obs.)
SOUTHWESTERN RYUKYU ISLANDS (246)

TWD	1.43	285 ePc	59	20.20	-0.4
TWC	1 46	308 ePc	59	21.60	0.7
		eS	59	39.90	
TWF1	1.70	258 ePc	59	24.30	-0.1
		eS	59	44.20	
ANP	2.06	316 eP	59	38.50	8.7X
TWG	2.07	245 ePc	59	29.90	0.1
OZH	4.30	288 ePn	00	02.00	0.5
		Sn	00	46.30	
SSE	7.55	347 eP	00	46.50	-0.8
	Z 20s	0.50um			
	N 15s	0.40um			
		epP	00	51.20	
NJ2	9.12	337 eP	01	10.00	0.9
	Z 14s	0.30um			
		S	02	49.40	
TIY	16.69	329 eP	02	55.00	5.0X
	Z 15s	0.71um			
	N 13s	0.37um			
LZH	20.72	311 eP	03	37.50	-0.3
	2.0s	32.00nm			4.3mb
	Z 17s	0.41um			3.9MszX
GTA	25.17	314 eP	04	20.60	-1.1
YKA	82.71	23 eP	11	20.10	0.6
	0.9s	1.10nm			4.0mb
	S.D. = 0.8	on 10 of 12 obs.			

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* MAR 23, 1991 16h 56m 53.05± 1.52s
24.669 N ±11.9km 120.345 E ±15.8km
DEPTH = 10.0km (geophysicist)
3.6mb (1 obs.)
TAIWAN (244)

ANP	1.19	64 eP	57	28.60	13.4X
TWD	1.28	117 ePc	57	16.70	-0.1
TWC	1.37	92 ePc	57	18.30	0.2
		eS	57	35.50	
TWF1	1.57	146 ePc	57	20.90	-0.2
		eS	57	41.10	
TWG	1.96	160 ePc	57	26.80	0.2
YKA	82.82	23 eP	09	18.50	-0.1
	0.7s	0.30nm			3.6mb
	S.D. = 0.2	on 5 of 6 obs.			

& MAR 23, 1991 17h 04m 04.99s
61.534 N 146.573 W
DEPTH = 28.9km
SOUTHERN ALASKA (2)
<AEIC>.

KLU	0.32	97 iPc	04	12.40	-0.3
VLZ	0.42	164 iPc	04	13.24	-0.8
VZW	0.48	179 ePc	04	14.06	-1.0
		eS	04	21.84	
TOA	0.60	18 iPd	04	16.22	-0.9
GLI	0.70	201 iPd	04	17.38	-1.3
		eS	04	27.84	
KNK	0.91	263 iPc	04	20.73	-1.1
		eS	04	33.03	
CVA	1.07	158 ePc	04	23.18	-0.8
		eS	04	39.02	
SDG	1.11	26 iPd	04	23.08	-1.6
		eS	04	36.77	
HIN	1.14	178 ePc	04	24.30	-0.8
		eS	04	40.40	
GHO	1.15	283 iPc	04	23.72	-1.5
		eS	04	39.31	
PLRM	1.23	274 iPc	04	25.18	-1.0
		eS	04	40.91	
SGAM	1.23	147 iPc	04	25.21	-1.1
KNIM	1.32	206 iPd	04	26.51	-1.0
GLB	1.33	93 iPc	04	26.09	-1.7
		eS	04	43.06	
PMS	1.47	260 ePc	04	29.38	-0.4
RAGM	1.48	140 ePc	04	29.14	-0.8
		S	04	49.70	
PAX	1.53	19 eP	04	29.03	-1.7
PWA	1.59	276 iP	04	30.72	-0.7
LTI	1.63	203 ePd	04	30.70	-1.3
MTU	1.64	199 ePd	04	31.01	-1.2
HMT	1.65	136 eP	04	31.37	-1.0
CUT	1.95	298 ePc	04	35.93	-0.8
TGL	1.98	112 eP	04	35.38	-1.8
SUA	2.00	270 eP	04	36.83	-0.8
SEW	2.01	226 eP	04	37.01	-0.6
HUR	2.04	317 eP	04	36.61	-1.4
SLKM	2.05	242 eP	04	38.22	0.0
BALM	2.10	102 ePc	04	37.02	-2.0
		eS	05	03.12	
WAX	2.11	119 eP	04	37.37	-1.8
RND	2.16	332 eP	04	38.76	-1.0
SKT	2.40	283 eP	04	41.45	-1.7
CTGM	2.60	100 eP	04	44.38	-1.7
SPU	2.66	265 eP	04	45.54	-1.4
NCG	2.68	270 eP	04	46.20	-1.0
WRG	2.69	122 eP	04	48.45	1.3
CRP	2.70	267 eP	04	47.38	-0.1
CKL	2.80	266 eP	04	47.71	-1.1
BGL	2.81	267 eP	04	47.45	-1.6
RDT	3.00	254 eP	04	49.99	-1.7
CNPM	3.06	231 eP	04	50.66	-1.9
	40 obs. associated				

% MAR 23, 1991 17h 21m 27.66± 1.85s
38.806 N ± 8.4km 31.264 E ±18.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ALT	0.93	286 iPg	21	45.00	-0.5
		iSg	21	59.00	
BCK	1.44	202 iPn	21	54.00	0.1
KHL	1.45	251 ePn	21	53.60	-0.4
GPA	1.65	334 iPn	22	02.80	5.9X
EYL	1.95	334 ePn	22	01.00	-0.3
DST	2.20	292 ePn	22	06.00	1.2
YLV	2.28	321 iPn	22	11.60	5.5X
HRT	2.36	329 ePn	22	07.00	-0.1
KCT	2.67	304 ePn	22	18.10	6.6X
	S.D. = 0.8	on 6 of 9 obs.			

? MAR 23, 1991 17h 40m 52.70± 5.64s
31.991 S ±33.6km 179.545 W ±93.2km
DEPTH = 560.5 ± 33.5 km
4.9mb (4 obs.)
KERMADEC ISLANDS REGION (177)

PUZ	6.33	196 eP	42	35.40	-0.1
		eS	43	54.70	
NOZ	6.90	196 eP	42	41.20	0.4
TAZ	7.02	206 eP	42	42.00	0.1
WLZ	7.07	213 eP	42	43.10	0.7
PGZ	9.25	200 eP	43	04.70	0.9
MNG	9.50	204 P	43	05.30	-1.1
		eS	44	50.10	
KIW	9.91	205 eP	43	09.80	-0.8
CAW	10.08	204 eP	43	12.00	-0.2
MRW	10.31	205 eP	43	13.80	-0.8

WEL	10.34	205	P	43	15.00	0.2
			S	45	07.00	
TCW	10.45	207	eP	43	13.50	-2.5
THZ	11.47	210	eP	43	26.90	0.6
KHZ	11.77	206	eP	43	30.70	1.5
	0.4s		68.00nm			5.4mb
LTZ	12.58	209	eP	43	38.30	0.9
STK	32.86	260	eP	47	03.90	21.9X
	0.4s		1.20nm			
ASPA	41.74	269	iP	47	55.40	0.7
	0.8s		3.60nm			4.0mb
W82	42.86	275	iPc	48	03.50	-0.1
	0.3s		17.60nm			5.1mb
WRA	42.87	275	P	48	03.00	-0.7
	0.3s		7.30nm			4.7mb
KAF	145.57	339	iPKP	59	36.30	8.5X
	0.4s		2.10nm			
NUR	147.32	338	iPKP	59	41.80	11.2X
	0.8s		9.30nm			
NB2	150.10	349	PKP	59	49.30	14.3X
	0.6s		1.60nm			
HFS	150.51	347	ePKP	59	49.20	13.7X
	0.5s		0.60nm			

S.D. = 1.1 on 17 of 22 obs.

MAR 23, 1991 17h 42m 09.02± 0.39s
41.088 N ± 4.6km 19.912 E ± 3.7km
DEPTH = 7.3 ± 3.1 km
ALBANIA (391)
ML 3.0 (TTG).

OHR	0.67	88	iPg	42	21.40	-1.1
	0.6s		283.00nm			
			iSg	42	31.40	
			Lg	42	38.70	
ULC	1.01	331	ePg	42	27.30	-1.0
			eSg	42	42.00	
FNA	1.15	105	iP	42	30.50	-0.3
KEK	1.38	184	ePb	42	36.30	1.7
TTG	1.43	340	ePg	42	35.50	0.2
			eSg	42	55.00	
BDV	1.44	326	ePg	42	35.40	-0.2
			eSg	42	55.00	
SKO	1.45	52	iPn	42	35.00	-0.6
			iSn	42	53.30	
			iSg	42	54.80	
PVY	1.51	2	ePg	42	36.00	-0.5
			eSg	42	59.00	
IGT	1.59	168	iP	42	40.20	2.6X
KZN	1.61	118	ePb	42	37.00	-1.0
LCI	1.67	244	P	42	37.00	-1.7
			eSn	43	01.60	
HCY	1.72	323	ePn	42	38.80	-0.7
			eSn	43	04.20	
IVA	1.78	360	ePn	42	42.00	1.5
			eSn	43	07.00	
NKY	1.85	339	ePn	42	42.00	0.5
			eSn	43	07.00	
GRG	1.89	93	iP	42	42.90	0.9
VAY	2.02	83	ePn	42	44.00	0.2
BRT	2.06	265	P	42	46.10	1.7
			eSn	43	15.00	
BRY	2.08	331	ePn	42	45.20	0.4
			eSn	43	11.50	
KNT	2.26	87	iP	42	47.50	0.2
SOH	2.62	95	iP	42	49.00	-3.5X
SRS	2.78	88	iP	42	55.00	0.2
VLS	2.95	170	ePn	42	57.00	-0.2
MGR	3.45	255	P	43	03.80	-0.4
SGO	3.53	263	P	43	04.60	-0.7

S.D. = 1.0 on 22 of 24 obs.

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* MAR 23, 1991 18h 10m 49.68± 0.84s
44.376 N ± 5.1km 11.811 E ±15.9km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

SFI	0.46	176	P	10	59.30	0.4
			eSg	11	06.40	
PGD	0.50	187	P	10	59.30	-0.7
			eSg	11	08.10	
CRE	0.75	172	P	11	04.60	0.1
			eSg	11	16.00	
ARV	1.20	137	P	11	11.20	-0.8
			eSn	11	27.10	
ASS	1.44	154	P	11	17.00	1.1
CTI	1.68	356	P	11	19.10	-0.2
			eSn	11	40.70	
TRI	1.92	45	eP	11	43.70	21.0X
			i	11	51.70	
FVI	2.32	17	P	11	28.60	0.1

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

MAR 23, 1991 18h 55m 23.62± 0.81s
42.904 N ± 4.2km 13.820 E ± 8.3km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)
MD 2.7 (SSO).

ALP	0.22	235	iPgd	55	28.58	0.2
			iSg	55	32.15	
SSO	0.49	323	e(Pg)	55	34.64	1.1
			iSg	55	43.94	
CIO	0.57	301	iPgc	55	34.83	-0.5
			iSg	55	44.47	
AQU	0.63	209	P	55	36.50	0.2
			eSg	55	44.50	
AOI	0.66	346	iPg	55	37.77	0.9
			iSg	55	48.77	
ASS	0.87	281	P	55	41.10	0.8
			eSn	55	54.80	
ARV	0.87	313	P	55	40.70	0.3
			eSg	55	54.50	
AZI	0.96	197	P	55	42.00	0.2
			eSg	55	57.00	
MNS	0.99	239	P	55	42.10	-0.3
			eSn	55	57.50	
SDI	1.20	180	P	55	45.70	-0.3
			eSn	56	02.00	
DUI	1.33	159	P	55	48.50	0.3
			eSn	56	06.50	
CRE	1.54	299	P	55	50.20	-1.1
CTI	3.51	334	P	56	17.60	-1.7
			eSn	56	56.00	

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

& MAR 23, 1991 19h 22m 00.71s
61.317 N 141.337 W
DEPTH = 0.0km
SOUTHERN ALASKA (2)
<AEIC>.

CTGM	0.35	180	iP	22	07.82	0.1
			eS	22	14.63	
BALM	0.56	240	iP	22	12.10	0.1
			iS	22	23.53	
TGL	0.92	233	iP	22	18.66	-0.4
			eS	22	33.29	
WAX	1.14	221	eP	22	22.50	-0.6
			eS	22	40.59	
GLB	1.20	277	eP	22	22.83	-1.2
			eS	22	39.76	
WRG	1.33	195	eP	22	26.90	0.7
			S	22	48.24	
HMT	1.74	237	eP	22	34.34	2.0
			eS	23	02.11	
RAGM	1.88	242	eP	22	36.82	2.4
YKU	1.94	155	eP	22	35.60	0.4
SGAM	2.06	248	eP	22	38.68	1.7
			eS	23	09.98	
TMW	2.16	340	eP	22	36.98	-1.5
KLU	2.21	277	eP	22	40.16	0.9
CVA	2.29	252	eP	22	41.92	1.6
VLZ	2.42	268	eP	22	39.55	-2.7
TOA	2.43	291	eP	22	43.55	1.1
VZW	2.54	266	eP	22	44.81	0.9
PAX	2.55	312	eP	22	45.32	1.2
HIN	2.69	252	eP	22	48.29	2.2
GLI	2.83	264	eP	22	48.67	0.6

19 obs. associated

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* MAR 23, 1991 19h 44m 55.89± 1.43s
14.310 N ±11.3km 144.318 E ±18.3km
DEPTH = 25.9 ± 11.4 km
4.3mb (5 obs.)
MARIANA ISLANDS (216)

PJG	0.89	143	eP	45	12.70	0.1
GUA	0.96	143	eP	45	12.50	-1.1
			eS	45	30.60	
MAT	22.80	347	(P)	49	57.00	-0.8
	1.0s		9.00nm			4.2mb
WB2	35.42	196	eP	51	51.50	-0.5
	0.8s		6.80nm			4.6mb
ASPA	39.09	195	eP	52	30.70	7.8X
	1.2s		3.10nm			3.9mb
LZH	42.16	308	e(P)	52	48.50	0.3
	1.5s		20.00nm			4.6mb
			pP	52	55.00	22kmX
INK	73.91	23	eP	56	30.00	-0.2
MBC	77.71	14	eP	56	52.00	0.4
YKA	82.47	27	eP	57	16.70	-0.5
	1.0s		0.70nm			3.7mb
ZOBO	148.66	98	PKP	04	45.00	4.9X
LPB	148.69	98	PKP	04	43.00	3.0X
CNCB	148.80	99	PKP	04	46.20	5.9X

S.D. = 0.7 on 8 of 12 obs.

MAR 23, 1991 20h 04m 28.04± 0.24s
0.409 N ± 3.7km 126.043 E ± 6.3km
DEPTH = 56.4km (3 depth phases)
5.0mb (25 obs.)
MOLUCCA PASSAGE (266)

DAV	6.65	356	eP	06	06.00	0.5
CGP	8.10	350	eP	06	26.00	0.3
	1.0s		6.00nm			4.4mb
MKS	8.62	230	iPd	06	35.00	2.2
MAP	10.06	348	eP	06	56.00	3.5X
PLP	10.74	354	eP	07	02.00	0.2
PPR	11.81	322	ePd	08	20.50	64.2X
PGP	13.95	339	ePc	07	46.80	2.3
	1.0s		41.00nm			5.0mb
QCP	14.97	341	eP	07	41.00	-16.7X
BAG	16.79	342	eP	08	21.30	0.2
SZP	17.90	342	eP	08	36.00	1.3
PIP	18.59	344	ePd	08	42.00	-1.1
WB2	21.80	159	eP	09	14.30	-2.9X
	0.6s		61.30nm			5.2mb
			eS	13	16.20	
MBL	22.28	195	eP	09	21.30	-0.6
	0.5s		20.00nm			4.8mb
PMG	23.17	115	eP	09	30.00	-0.6
QIZ	24.39	320	eP	09	42.20	-0.3
QIS	24.71	148	ePc	09	45.00	-0.5
ASPA	25.12	163	eP	09	49.50	0.1
	1.2s		74.30nm			5.1mb
			iPcP	13	23.60	
			iS	14	12.10	
			iScP	17	01.30	
IPM	25.33	280	ePc	09	52.00	0.6
	1.0s		60.90nm			5.1mb
WARB	26.44	179	eP	10	02.50	0.9
MEKA	27.82	195	eP	10	13.50	-0.7
NNT	28.76	296	eP	10	08.00	-14.7X
NST	29.73	302	eP	10	33.50	2.1
KHT	30.66	299	iPc	10	39.40	-0.3
SSE	30.86	352	eP	10	30.00	-11.2X
Z	20s		0.90um			4.4Msz
			pP	10	44.00	56km
			sP	10	52.50	
			eS	15	42.00	
FORR	31.15	177	eP	10	42.50	-1.2
	0.4s		23.00nm			5.3mb
BDT	31.44	304	eP	10	45.80	-0.6
	0.8s		51.90nm			5.4mb
GYA	31.92	326	P	10	50.00	-0.7
			PcP	13	41.40	
WHN	31.96	341	eP	10	50.50	-0.3
BAL	32.10	195	eP	10	52.00	-0.1
	0.4s		7.00nm			4.8mb
CHG	32.28	306	ePd	10	53.00	-0.8
	0.8s		11.19nm			4.7mb
			e	13	42.90	
KLB	32.78	193	eP	10	58.00	0.0
	0.4s		4.00nm			4.6mb
KMI	33.33	319	Pc	11	03.20	0.1
	2.0s		50.00nm			5.0mb
MUN	33.53	195	eP	11	04.50	0.0
NWAO	34.18	193	eP	11	10.00	-0.1
RMQ	34.56	142	eP	11	12.00	-1.5
HNR	35.14	107	eP	11	15.00	-3.6X
STK	35.33	157	iPc	11	39.90	20.0X
	0.5s		17.40nm			
			ipP	11	54.20	55km
			iPcP	14	09.60	
			iS	17	12.00	
IIDJ	36.60	16	eP	11	33.90	3.2X
CD2	36.97	327	P	11	32.80	-1.1
XAN	37.11	336	Pc	11	34.00	-0.9
ADE	37.13	163	eP	11	35.60	0.4

23d 20h

```
CHJJ    37.45   17 P      11 36.30  -1.4
MTMJ    37.61   16 P      11 38.10  -1.1
MAT     37.68   16 eP     11 38.00  -1.7
        0.7s     13.70nm            5.0mb
                   eS     20 28.00
BRS     37.73  139 iPd    11 39.80  -0.5
NIIJ    38.56   17 eP     11 48.10   1.1
TIY     39.19  343 Pc     11 51.70  -0.7
      Z  26s      0.85um            4.5MszX
BFD     40.40  160 eP     12 03.00   0.7
8JI     40.46  348 eP     12 02.50  -0.2
      Z  16s      3.49um            5.3MszX
      N  16s      2.38um
LZH     41.05  332 P      12 07.80  -0.1
        1.2s     44.00nm            5.1mb
      Z  20s      0.49um            4.4Msz
SNY     41.29  357 Pc     12 09.00  -0.5
        1.4s    200.00nm            5.7mb
SHL     41.37  310 eP     12 09.80  -0.9
                   eS     14 09.50
HHC     42.34  344 eP     12 17.60  -0.7
CN2     43.21  359 Pc     12 25.00  -0.1
        1.0s     10.00nm            4.5mb
      Z  20s      0.60um            4.5Msz
                   epP    12 40.00   58km
MDJ     44.13    4 Pc     12 33.50   0.9
        1.0s     50.00nm            5.2mb
LSA     44.18  314 eP     12 34.80   0.9
DZM     45.27  122 iPc    12 43.00   0.7
GTA     45.62  331 P      12 44.40  -0.4
        1.2s     20.00nm            4.9mb
KOD     49.27  283 eP     13 05.30  -8.6X
HYB     49.67  293 eP     13 16.50  -0.1
        1.0s     40.00nm            5.4mb
GBA     49.87  287 Pc     13 16.50  -1.6
        0.8s     12.10nm            5.0mb
POO     54.28  293 eP     13 49.00  -2.2
NDI     54.42  306 eP     13 50.00  -2.0
WMO     55.07  327 P      13 56.00  -0.6
        1.0s     40.00nm            5.4mb
QUE     63.37  304 eP     14 54.10  -0.2
TAB     81.65  308 e(P)   16 43.00   1.0
TTA     84.15   27 eP     16 57.20   2.9X
        0.8s      9.57nm            4.9mb
IMA     85.68   24 eP     17 04.30   2.4
        0.6s      5.30nm            4.9mb
PMR     87.17   28 eP     17 10.90   1.9
INK     93.48   21 eP     17 38.50   0.1
MBC     95.32   13 eP     17 48.00   1.2
        1.0s      5.00nm            4.9mb
MLR     96.79  316 eP     17 58.00   3.8X
YKA    102.79   25 ePdiff 18 21.20   0.7
        0.8s      0.60nm            4.4mb
KIC    130.42  279 PKP    23 36.50   1.5
LIC    130.72  279 PKP    23 37.00   1.4
LKO    130.85  283 PKP    23 37.28   1.4
PCH    143.49  156 ePKP   23 56.60  -2.1
PEL    143.83  156 iPKPc  23 59.10  -0.2
ROCH   143.85  155 ePKP   23 56.60  -2.9X
TCA    147.63  163 ePKPc  24 06.60   1.0
CNCB   158.63  140 PKP    24 22.00   0.0
LPB    158.76  140 PKP    24 17.00  -4.9X
ZOBO   158.94  139 PKP    24 25.00   2.7X
     S.D. = 1.1  on  68 of  83 obs.
-------------------------------------
*  MAR  23, 1991  20h 33m 34.94± 0.48s
   34.325 N ± 8.7km   79.730 E ±11.1km
   DEPTH =  33.0km  (normal)
   4.5mb (  9 obs.)
 KASHMIR-TIBET BORDER REGION      (304)

NDI      6.02  202 iPc    35 04.50   0.5
QUE     11.58  253 eP     36 27.50   6.4X
                   eS     38 24.70
HYB     16.87  184 eP     37 25.50  -4.7X
CHG     23.04  127 eP     38 38.00  -0.3
HFS     49.14  323 eP     42 21.20   0.1
        0.6s      1.00nm            4.0mb
NB2     50.37  324 P      42 29.70  -0.9
        1.1s      3.40nm            4.3mb
BSF     54.66  308 eP     43 02.90   0.0
        0.9s      6.55nm            4.7mb
LPG     55.29  305 eP     43 08.10   0.4
LPL     55.30  305 eP     43 08.20   0.5
        0.6s      3.15nm            4.5mb
SSF     57.02  308 eP     43 19.40  -0.3
LDF     58.90  310 eP     43 32.50  -0.4

        0.7s      5.50nm            4.8mb
GRR     59.43  310 eP     43 36.00  -0.5
        0.6s      6.30nm            4.9mb
MBC     69.04    5 ePc    44 40.00   1.2
        0.7s      6.00nm            4.8mb
INK     74.71   12 eP     45 14.00   1.4
WRA     74.90  127 P      45 14.00  -0.4
        0.7s      1.30nm            4.0mb
YKA     82.83    7 eP     45 55.70  -1.1
        0.6s      1.80nm            4.3mb
     S.D. = 0.8  on  14 of  16 obs.
-------------------------------------
   MAR  23, 1991  20h 38m 49.87± 0.17s
   48.261 N ± 3.5km  154.854 E ± 3.0km
   DEPTH =  40.5km  ( 12 depth phases)
   5.4mb ( 83 obs.)  5.0Msz ( 20 obs.)
 KURIL ISLANDS                    (221)
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 17S, 34C
      Centroid Location:
      Origin Time          20:38:57.0 0.3
      Lat 48.27N 0.05 Lon 154.76E 0.04
      Dep  33.8 2.9 Half-duration  2.2
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 2.14 0.13  Mtt=-0.47 0.20
        Mff=-1.66 0.10  Mrt= 1.01 0.18
        Mrf= 1.00 0.20  Mtf=-1.63 0.09
       Principal Axes:
        T  Val=  2.54  Plg=73  Azm=333
        N        0.64      7       218
        P       -3.18     15       126
      Best Double Couple:Mo=2.9*10**17
       NP1:Strike=206 Dip=31 Slip=  76
       NP2:         42    60       98

KUSJ     8.78  238 P      40 54.60  -2.5
                   eS     42 29.60
ASAJ     9.43  248 eP     41 09.00   2.9X
HOOJ    10.04  238 P      41 13.60  -0.9
                   eS     43 03.10
MRRJ    11.31  244 eP     41 32.40   0.6
                   eS     43 35.10
AOMJ    12.89  239 eP     41 50.20  -2.7
OFUJ    13.22  231 eP     41 47.90  -9.4X
                   eS     44 12.70
YAMJ    14.75  232 eP     42 13.70  -3.7X
NIIJ    15.99  232 P      42 30.50  -2.9X
KAKJ    16.19  227 eP     42 35.70  -0.2
CHJJ    16.91  230 P      42 44.00  -0.9
MAT     16.94  232 eP     42 44.00  -1.3
        0.8s     38.06nm            4.6mb
                   (S)    46 02.00
MTMJ    17.12  233 P      42 46.50  -1.2
MDJ     17.76  268 eP     42 55.50   0.0
        1.4s    100.00nm            4.8mb
      Z  20s      4.70um            4.5MszX
      N  13s      2.70um
      E  14s      5.40um
                   sP     43 10.00
                   S      46 14.00
IIDJ    17.90  231 P      42 58.30   0.9
TSRJ    18.88  235 P      43 09.30   0.0
CN2     20.83  269 Pc     43 27.00  -3.2X
        0.6s     50.00nm            5.1mb
      Z  14s     12.30um            5.4MszX
      N  14s      1.20um
      E  14s      3.90um
                   pP     43 37.00   39km
                   eS     47 14.00
                   SS     47 44.00
SNY     22.91  265 Pc     43 51.00   0.1
      Z  20s      4.80um            4.9Msz
      N  13s      1.10um
      E  14s      2.30um
                   sP     44 05.00
DL2     25.65  261 Pc     44 18.00   0.8
      Z  20s      1.90um            4.6Msz
      N  14s      1.80um
      E  14s      1.80um
                   S      48 40.00
ANM     26.77   38 ePc    44 27.80   0.4
BJI     28.69  268 eP     44 45.50   0.5
        2.0s     80.00nm            5.0mb
      Z  16s      3.49um            5.1MszX
      N  16s      2.38um
TIA     30.12  260 eP     44 57.90   0.1

      Z  19s      1.80um            4.7Msz
      N  15s      1.30um
      E  15s      1.30um
                   eS     49 52.00
TTA     30.51   43 eP     45 00.40  -0.7
SVW     30.57   47 P      45 01.40  -0.2
        1.2s     18.18nm            4.7mb
                   pP     45 13.00   44km
SSE     30.75  248 Pc     45 03.00  -0.3
      Z  20s      2.80um            4.9Msz
      N  15s      0.80um
      E  16s      1.50um
                   pP     45 14.00   41km
                   S      50 05.00
HHC     31.38  273 P      45 08.00  -1.0
        1.4s    100.00nm            5.4mb
      Z  20s      5.00um            5.2Msz
      N  13s      1.80um
      E  13s      2.30um
                   pP     45 13.50   19kmX
NJ2     31.57  252 eP     45 08.80  -1.8
      Z  18s      2.10um            4.9Msz
      N  14s      1.40um
      E  15s      1.90um
                   S      50 08.00
IMA     31.89   37 P      45 12.20  -1.0
BRW     32.08   27 eP     45 14.70   0.1
TIY     32.39  267 eP     45 17.80   0.0
      Z  21s      3.10um            5.0Msz
      N  14s      1.70um
BTO     32.53  273 eP     45 17.50  -1.6
      N  14s      2.20um
      E  14s      3.10um
                   ePP    46 29.00
                   eS     50 37.00
PMR     33.70   46 e(P)   45 29.10   0.3
      Z  21s      1.60um            4.7Msz
FBA     34.24   40 P      45 32.90  -0.6
        1.0s     50.00nm            5.4mb
                   pP     45 44.60   43km
TOA     35.06   45 eP     45 41.60   1.0
WHN     35.46  255 P      45 44.70   0.5
      Z  20s      0.90um            4.5Msz
      N  18s      1.80um
      E  20s      2.50um
                   pP     45 55.00   35km
                   eS     51 18.00
OZH     36.76  244 Pc     45 56.50   1.3
        4.0s    500.00nm            5.8mb X
      Z  17s      1.30um            4.8MszX
      N  16s      1.10um
                   eS     51 38.00
XAN     36.83  265 P      45 56.00   0.2
      N  14s      2.10um
      E  16s      1.50um
BALM    37.01   46 P      45 56.60  -0.5
                   pP     46 09.00   46km
LZH     39.03  271 Pc     46 14.60   0.2
        1.5s     82.00nm            5.3mb
      Z  22s      3.05um            5.1Msz
      N  12s      1.36um
      E  13s      1.99um
                   pP     46 21.00   22kmX
                   sP     46 23.50
INK     39.74   33 ePc    46 19.60   0.0
                   pP     46 31.00   41km
GTA     39.91  278 eP     46 21.20  -0.4
        1.2s     20.00nm            4.8mb
      Z  17s      6.40um            5.5MszX
      N  16s      3.40um
                   pP     46 25.80   16kmX
                   PP     48 00.00
CD2     42.19  265 P      46 40.60   0.3
        0.6s     60.00nm            5.5mb
      Z  21s      2.30um            5.0Msz
      E  12s      1.30um
                   sP     46 54.00
                   S      52 52.40
                   sS     53 18.00
8AG     42.37  233 eP     46 41.50  -0.5
                   eS     53 02.00
MBC     42.77   21 ePc    46 44.50   0.1
        0.5s      8.00nm            4.7mb
GYA     43.19  257 iPc    46 49.00   0.4
        3.0s   1000.00nm            6.0mb
      Z  22s      0.80um            4.6Msz
      N  16s      1.40um
```

23d 20h

E 16s 1.40um
S 53 09.00
WMO 45.49 291 P 47 06.00 -0.8
1.0s 20.00nm 5.0mb
Z 20s 5.00um 5.5Msz
OIZ 46.53 247 eP 47 17.00 1.9
N 17s 1.50um
E 15s 1.20um
sP 47 32.50
ePP 49 06.00
eS 54 04.00
KMI 46.68 260 P+ 47 17.00 0.4
2.0s 100.00nm 5.4mb
Z 20s 1.40um 4.9Msz
pP 47 30.00 48km
S 54 00.00
YKA 49.01 38 eP 47 33.20 -0.8
1.0s 17.70nm 5.0mb
LSA 51.37 273 eP 47 54.30 1.2
LOE 52.84 253 eP 48 04.00 0.4
CHG 53.61 257 ePc 48 10.00 0.7
0.9s 42.02nm 5.5mb
EDM 54.42 48 ePc 48 14.50 -0.4
BDT 54.71 256 eP 48 18.00 0.6
DAG 55.18 358 eP 48 18.20 -1.9
NEW 55.33 54 P 48 21.00 -0.6
1.0s 19.00nm 5.1mb
KHT 56.79 254 eP 48 33.00 0.6
SES 57.25 49 eP 48 34.00 -1.3
NNT 57.71 251 eP 48 23.40 -15.4X
FFC 58.82 41 iPc 48 45.70 -0.5
1.2s 62.00nm 5.6mb
LRM 59.35 54 ePd 48 50.30 0.0
CMB 59.69 66 P 48 53.00 0.5
NDI 61.25 282 iPd 49 03.50 0.3
0.5s 28.17nm 5.7mb
TNP 61.57 64 P 49 05.20 -0.3
1.5s 36.36nm 5.3mb
KAF 62.56 336 iP 49 09.60 -1.9
0.5s 3.00nm 4.7mb
CLC 62.83 66 eP 49 13.00 -0.7
BW06 62.90 55 P 49 14.60 0.3
1.1s 26.19nm 5.3mb
FRB 63.23 20 ePc 49 14.10 -1.7
SBB 63.44 67 eP 49 17.00 -0.7
MWC 63.60 67 eP 49 19.00 0.0
GSC 63.65 66 eP 49 18.00 -1.2
NUR 64.34 335 iP 49 21.50 -1.6
0.5s 16.80nm 5.4mb
Z 16s 2.00um 5.4MszX
LR 21 10.00
PEC 64.38 67 P 49 23.50 -0.4
TPC 64.92 66 eP 49 27.00 -0.4
RSSD 64.95 51 P 49 27.00 -0.7
1.0s 56.94nm 5.6mb
pP 49 39.20 42km
BAR 65.49 68 eP 49 31.00 0.0
GLA 66.38 66 eP 49 36.00 -0.7
NB2 67.17 342 P 49 39.40 -1.9
0.6s 6.60nm 4.9mb
GOL 67.31 55 P 49 42.80 0.0
1.2s 14.34nm 4.9mb
GLD 67.35 55 P 49 43.20 0.2
1.5s 31.25nm 5.2mb
HFS 67.44 340 eP 49 41.20 -1.8
0.5s 16.90nm 5.4mb
Z 17s 2.01um 5.4MszX
LR 15 44.00
HYB 68.14 272 eP 49 47.00 -1.0
0.8s 53.85nm 5.7mb
ANMO 70.05 60 P 50 00.00 0.3
1.0s 8.00nm 4.7mb
ALQ 70.05 60 eP 49 59.30 -0.4
1.0s 7.00nm 4.6mb
Z 20s 0.71um 4.9Msz
WB2 70.33 200 iPd 50 01.10 -0.1
0.8s 12.00nm 5.0mb
WRA 70.33 200 P 50 01.00 -0.2
1.1s 14.20nm 4.9mb
POO 70.48 276 iPd 50 02.50 0.2
SCH 71.48 24 eP 50 08.00 0.2
GBA 71.61 270 P 50 10.00 0.9
0.5s 6.20nm 4.8mb
BSD 71.64 337 iPc 50 09.40 0.7
1.2s 59.00nm 5.4mb
EDR 73.51 347 ePd 50 20.30 0.6
0.7s 34.00nm 5.4mb

EDU 73.94 347 ePd 50 22.80 0.6
0.5s 28.00nm 5.5mb
ASPA 74.02 200 iPd 50 23.60 0.6
1.8s 14.60nm 4.6mb
i 52 04.90 465kmX
KOD 74.04 267 eP 50 23.40 -0.4
ELO 74.12 348 ePd 50 23.90 0.7
0.8s 35.00nm 5.4mb
EBH 74.30 348 ePd 50 25.20 0.9
1.2s 39.00nm 5.3mb
EAB 74.48 348 ePd 50 26.20 0.9
ESY 74.49 347 ePd 50 26.20 0.8
0.5s 28.00nm 5.5mb
MEO 74.59 55 iPc 50 26.30 -0.1
KRA 74.65 332 iP 50 33.10 6.7X
0.7s 68.00nm 5.7mb
e 50 56.10 88kmX
EAU 74.69 348 ePd 50 28.20 1.7
0.6s 47.00nm 5.6mb
KSP 75.06 334 iPd 50 28.50 -0.3
1.0s 36.00nm 5.3mb
EKA 75.14 347 Pc 50 28.70 -0.4
0.6s 28.50nm 5.4mb
TUL 75.25 52 eP 50 29.10 -1.0
1.6s 84.50nm 5.5mb
e 50 40.70 39km
SPC 75.31 331 eP 50 29.40 -1.1
CLL 75.56 336 ePc 50 30.00 -1.6
1.9s 150.00nm 5.6mb
e 50 53.00 87kmX
BRG 75.70 336 iP 50 31.80 -0.6
1.7s 62.00nm 5.3mb
WIT 75.73 341 eP 50 33.50 1.0
VRI 75.88 325 ePd 50 31.00 -2.5
PRU 76.33 335 ePc 50 36.00 0.0
1.8s 93.80nm 5.5mb
Z 20s 1.70um 5.4Msz
N 18s 1.40um
E 16s 1.30um
FVM 76.40 48 P 50 37.10 0.5
1.0s 12.00nm 4.8mb
WTS 76.46 340 iPc 50 37.20 0.6
0.6s 28.00nm 5.4mb
MLR 76.49 326 eP 50 37.00 -0.1
MOX 76.53 337 ePc 50 37.00 -0.1
1.7s 92.00nm 5.5mb
Z 20s 1.70um 5.4Msz
E 28s 1.30um
PSZ 76.53 331 iP 50 37.30 0.1
ISR 76.56 325 eP 50 38.50 1.1
GAC 76.60 34 ePd 50 37.90 0.4
0.5s 4.00nm 4.7mb
HOF 76.77 337 eP 50 38.30 -0.2
CMP 77.02 326 ePd 50 44.00 4.1X
SRO 77.14 332 iP 50 41.00 0.6
PSN 77.15 323 eP 50 41.00 0.4
ZST 77.18 333 eP 50 40.90 0.2
VKA 77.36 333 eP 50 41.00 -0.7
2.0s 149.00nm 5.7mb
Z 15s 1.30um 5.4MszX
ic 50 42.70 5kmX
i 51 25.00
e 56 14.00
LR 31 50.00
KHC 77.38 335 iPc 50 42.00 0.1
1.2s 30.00nm 5.2mb
N 20s 0.80um
E 20s 4.30um
e 50 52.50 34km
GRF 77.51 337 iPc 50 42.80 0.3
1.8s 276.00nm 6.0mb
Z 21s 2.00um 5.4Msz
e 51 04.00 79kmX
WET 77.56 336 iPc 50 43.40 0.6
ENN 77.81 340 iPc 50 44.00 -0.1
1.0s 50.00nm 5.5mb
MEM 77.94 340 Pc 50 45.00 0.2
BZS 77.96 328 eP 50 44.00 -1.0
UCC 78.12 341 P 50 46.70 0.9
UZD 78.13 331 e(P) 50 46.00 0.1
ETA 78.14 348 eP 50 45.90 0.0
KMR 78.19 334 iP+ 50 46.60 0.3
ABH 78.26 339 eP 50 46.47 -0.2
WARB 78.31 206 iPd 50 49.10 2.0
BBTK 78.38 318 eP 50 49.00 1.4
e 51 00.00 36km
SNF 78.40 341 Pd 50 47.80 0.4

ECB 78.53 349 eP 50 48.40 0.3
PVL 78.65 325 iPd 50 49.00 0.1
ECP 78.66 348 eP 50 49.00 0.3
DOU 78.73 341 P 50 49.00 -0.2
BHG 78.85 335 eP 50 50.70 0.8
BEO 79.05 329 e(P) 50 51.00 0.0
GWF 79.08 339 P 50 51.19 0.0
YLV 79.25 321 iP 50 52.40 0.1
KBA 79.30 334 iPc 50 53.40 0.8
0.6s 41.70nm 5.6mb
i 51 00.60 23kmX
VAL 79.37 351 iP 50 52.90 0.3
PGB 79.67 325 eP 50 55.00 0.5
WLS 79.67 339 P 50 54.55 0.1
CDF 79.69 339 P 50 54.63 0.1
PLD 79.84 325 eP 50 54.00 -1.3
ECH 79.90 339 P 50 55.69 0.1
FVI 79.91 334 P 50 55.80 0.2
KDZ 79.95 324 eP 50 56.00 0.0
SLE 79.99 338 eP 50 56.00 -0.1
VTS 80.00 326 iPc 50 56.00 -0.4
FEL 80.01 338 P 50 56.12 -0.2
OGA 80.15 336 iPc 50 57.90 0.7
VITF 80.18 339 P 50 57.12 0.1
RZN 80.20 324 iPd 50 58.00 0.5
SAX 80.25 337 ePc 50 57.80 0.0
MOF 80.25 339 P 50 57.46 -0.1
ZLA 80.28 338 ePc 50 57.90 0.2
HAU 80.29 339 eP 50 57.80 0.1
1.6s 80.85nm 5.4mb
ALN 80.34 323 iP 50 57.80 -0.2
BSF 80.35 339 P 50 57.68 -0.4
DST 80.37 321 eP 50 58.00 -0.3
TRI 80.42 333 i(P)c 50 57.30 -1.0
e(S) 01 08.00
e(SP) 02 04.00
eLR 18 56.00
BBS 80.52 338 P 50 59.07 0.1
OSS 80.56 336 ePc 50 59.90 0.6
LLS 80.69 337 ePc 51 00.40 0.3
CTI 80.73 335 P 50 58.90 -1.2
LOMF 80.79 339 P 51 00.70 0.3
VDL 80.92 337 ePc 51 01.80 0.5
FLN 81.03 344 eP 51 01.50 0.0
1.4s 87.15nm 5.5mb
SRS 81.12 325 iP 51 02.00 -0.1
VAY 81.33 326 iPc 51 03.50 0.3
KNT 81.35 325 iP 51 03.40 0.1
GRR 81.46 344 eP 51 04.20 0.4
0.9s 31.10nm 5.3mb
SOH 81.47 325 iP 51 03.50 -0.5
LOR 81.56 340 eP 51 04.40 0.0
0.8s 29.55nm 5.3mb
VAI 81.68 337 P 51 04.40 -0.5
GRG 81.71 326 iP 51 05.10 -0.2
MMK 81.72 337 ePc 51 06.30 0.8
LBF 81.80 340 eP 51 05.60 -0.1
0.8s 21.50nm 5.2mb
DIX 81.83 338 ePc 51 07.10 1.0
SSF 81.84 341 eP 51 06.00 0.2
0.9s 19.65nm 5.1mb
EMS 81.96 338 ePc 51 07.50 0.8
ORX 82.10 337 P 51 07.41 0.1
PAIG 82.11 324 iP 51 06.80 -0.5
AVF 82.13 341 eP 51 07.60 0.3
0.8s 36.95nm 5.5mb
SMF 82.15 340 eP 51 07.80 0.3
1.3s 102.90nm 5.7mb
OHR 82.17 327 eP 51 07.00 -0.7
FNA 82.25 326 iP 51 07.60 -0.5
RSL 82.39 338 P 51 09.62 0.7
BGF 82.46 341 eP 51 09.50 0.5
0.7s 24.25nm 5.4mb
LSD 82.48 338 P 51 10.80 1.3
BOB 82.51 336 P 51 09.80 0.4
LPL 82.53 338 eP 51 10.80 1.1
0.8s 38.30nm 5.5mb
LPG 82.54 338 eP 51 11.00 1.1
0.8s 45.00nm 5.6mb
SFI 82.61 334 P 51 08.30 -1.5
ARV 82.67 333 P 51 09.10 -1.1
RSP 82.74 338 P 51 11.00 0.4
MAF 82.84 341 eP 51 11.90 0.9
0.8s 47.00nm 5.6mb
PLDF 82.84 340 P 51 11.60 0.5
BDI 82.84 335 P 51 11.50 0.3
CRE 82.85 334 P 51 11.00 -0.2

23d 20h

TCF 82.85 341 eP 51 11.70 0.6
1.5s 91.40nm 5.6mb
FIR 82.92 334 eP 51 12.00 0.6
PCP 82.97 336 P 51 12.44 0.7
BNI 82.98 338 P 51 12.20 0.3
BHB 83.02 337 P 51 11.82 -0.2
LSF 83.03 342 eP 51 12.60 0.6
0.8s 38.95nm 5.5mb
RRL 83.07 338 P 51 13.26 0.7
MML 83.15 312 iPc 51 15.40 2.5X
CKI 83.15 337 P 51 10.40 -2.2
PYM 83.19 341 P 51 14.00 1.1
SSB 83.28 339 P 51 14.07 0.7
FIN 83.36 337 P 51 13.87 0.1
ROB 83.37 337 P 51 13.46 -0.4
PZZ 83.38 337 P 51 13.36 -0.6
ENR 83.56 337 P 51 13.26 -1.6
STV 83.56 337 P 51 14.08 -0.8
LBL 83.63 340 P 51 16.10 1.1
IMI 83.73 337 P 51 15.51 -0.2
DSI 83.86 312 eP 51 19.50 3.0X
SBF 83.89 337 eP 51 16.60 0.1
0.8s 38.95nm 5.6mb
RJF 83.94 341 eP 51 17.50 0.9
1.4s 61.00nm 5.5mb
Z 20s 1.98um 5.5Msz
SDI 84.03 332 P 51 14.90 -2.3
FRF 84.38 337 eP 51 19.20 0.3
1.2s 53.55nm 5.5mb
LRG 84.55 338 eP 51 20.50 0.8
1.2s 101.15nm 5.8mb
Z 21s 1.17um 5.2Msz
LPO 84.60 341 eP 51 20.90 0.9
1.5s 73.10nm 5.6mb
LMR 84.63 337 eP 51 20.60 0.5
1.6s 254.95nm 6.1mb
ORI 84.64 329 P 51 20.90 0.7
PGF 84.69 335 eP 51 20.90 0.3
0.9s 36.05nm 5.5mb
MGR 84.88 330 P 51 21.20 -0.2
TDS 85.04 329 P 51 21.10 -1.1
RMN 85.11 312 eP 51 26.00 3.1X
BAL 85.63 212 eP 51 26.00 0.9
0.7s 10.00nm 5.1mb
KLB 86.16 211 iPd 51 28.60 1.0
0.4s 4.00nm 5.0mb
EPF 86.36 342 eP 51 30.60 1.8
1.0s 24.00nm 5.4mb
SOI 86.56 329 P 51 28.10 -1.7
MUN 87.05 212 eP 51 33.00 1.0
NWAO 87.55 211 iPd 51 35.70 1.3
0.7s 8.00nm 5.1mb
KIC 122.73 336 PKP 57 43.00 0.0
ZOBO 132.59 63 PKP 58 02.00 -0.6
CNCB 133.09 63 PKP 58 05.00 1.5
PDCR 142.52 23 (PKP) 58 16.00 -4.2X
PPD 146.51 48 ePKP 58 28.60 1.8
BMA 150.33 37 (PKP) 58 39.00 6.2X
S.D. = 0.8 on 236 of 249 obs.

& MAR 23, 1991 22h 13m 00.40s
37.677 N 118.968 W
DEPTH = 5.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 3.0 (BRK).

BONR 0.60 62 eP 13 11.50 -0.9
FRI 0.90 221 iPc 13 17.10 -1.0
iS 13 28.50
CMB 1.18 288 ePc 13 22.50 -0.4
iS 13 39.70
TNP 1.44 73 eP 13 26.50 -0.9
KVN 1.53 26 eP 13 28.50 -0.1
PKEM 1.85 210 eP 13 33.40 0.3
LLA 1.90 237 ePc 13 34.40 0.6
PRI 2.05 222 ePd 13 37.00 1.0
ARN 2.07 262 eP 13 36.50 0.3
MHC 2.15 262 eP 13 39.50 1.9
SAO 2.18 246 eP 13 38.70 0.9
PRS 2.35 236 eP 13 41.20 1.0
BCH 2.64 200 eP 13 43.50 -1.1
ORV 2.73 314 eP 13 47.00 1.3
ABL 2.83 184 eP 13 47.00 -0.3
PEC 4.05 158 eP 14 02.50 -2.0
16 abs. associated

& MAR 23, 1991 22h 15m 21.20s
37.648 N 118.948 W
DEPTH = 4.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 2.9 (BRK).

BONR 0.60 59 iPc 15 32.00 -1.2
FRI 0.89 223 iPc 15 37.50 -1.4
iS 15 48.90
CMB 1.20 289 iPc 15 44.00 -0.2
iS 16 00.00
TNP 1.44 72 eP 15 47.00 -1.3
KVN 1.55 25 eP 15 49.50 -0.3
PKEM 1.84 211 eP 15 53.80 0.0
LLA 1.90 238 ePc 15 54.70 0.0
PRI 2.04 223 ePc 15 57.60 0.8
ARN 2.08 263 eP 15 55.50 -1.8
SAO 2.18 247 eP 15 59.10 0.3
PRS 2.34 237 ePd 16 01.50 0.4
BCH 2.62 201 eP 16 04.20 -1.0
ORV 2.76 314 eP 16 08.50 1.4
ABL 2.80 185 eP 16 06.50 -1.3
14 obs. associated

? MAR 23, 1991 22h 53m 44.60± 1.00s
37.037 N ± 9.9km 29.416 E ± 7.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ELL 0.49 126 iPg 53 54.30 -0.3
eSg 54 02.80
YER 0.91 276 ePn 54 02.20 0.1
BCK 1.03 65 iPn 54 04.50 0.4
KHL 1.29 4 ePn 54 08.10 -0.4
S.D. = 0.7 on 4 of 4 obs.

? MAR 23, 1991 23h 01m 53.58± 1.13s
31.385 S ±19.0km 67.896 W ± 7.3km
DEPTH = 10.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

CFA 0.37 233 ePc 02 01.00 -0.1
eS 02 06.50
RTLL 0.49 276 iPc 02 03.30 -0.3
eS 02 09.10
RTCB 0.78 262 ePc 02 09.30 0.5
S 02 22.00
TCA 2.83 90 eP 02 39.70 0.0
(S) 03 11.80
S.D. = 0.6 on 4 of 4 obs.

• MAR 23, 1991 23h 07m 50.90± 0.77s
55.894 N ±21.4km 165.756 E ±18.2km
DEPTH = 33.0km (normal)
4.2mb (6 obs.)
KOMANDORSKY ISLANDS REGION (4)

TTA 20.42 54 eP 12 27.20 -0.4
1.5s 121.28nm 5.0mb
SVW 20.61 59 eP 12 30.50 1.0
IMA 21.73 46 ePc 12 42.80 1.9
0.9s 14.50nm 4.4mb
FBA 24.10 49 eP 13 03.90 0.0
TOA 25.02 56 eP 13 12.50 -0.4
MAT 26.87 235 (P) 13 31.00 0.8
0.7s 6.85nm 4.4mb
MBC 33.14 25 eP 14 26.00 0.5
YKA 38.85 47 eP 15 12.70 -1.3
0.8s 3.00nm 4.1mb
FRB 53.57 27 ePd 17 08.80 -1.3
NB2 61.69 346 P 18 07.60 0.0
0.8s 1.00nm 4.0mb
WRA 80.09 210 P 19 58.00 -0.6
1.0s 1.40nm 3.9mb
S.D. = 1.1 on 11 of 11 obs.

? MAR 24, 1991 01h 50m 12.95± 1.24s
37.444 N ±14.2km 70.725 E ±34.2km
DEPTH = 33.0km (normal)
4.1mb (3 obs.)
AFGHANISTAN-USSR BORDER REGION (717)

QUE 7.89 205 eP 52 08.50 0.1
eS 53 25.30
HFS 42.19 321 eP 58 04.00 0.1
0.3s 1.10nm 4.1mb
NB2 43.50 322 P 58 14.40 -0.2
0.6s 1.60nm 4.0mb
MBC 66.41 3 eP 01 01.50 1.2
INK 73.01 9 iPd 01 41.10 0.4
YKA 80.31 3 eP 02 20.00 -1.6
0.6s 1.70nm 4.2mb
S.D. = 1.2 on 6 of 6 obs.

? MAR 24, 1991 02h 22m 39.41± 5.57s
24.464 N ±28.1km 120.579 E ±35.6km
DEPTH = 10.0km (geophysicist)
TAIWAN (244)

TWD 1.00 112 ePc 22 58.70 0.3
eS 23 13.80
ANP 1.12 50 eP 23 14.30 13.9X
TWC 1.17 83 ePc 23 01.00 -0.2
eS 23 17.50
TWF1 1.29 149 iPd 23 02.90 -0.4
TWG 1.70 164 ePc 23 09.40 0.2
S.D. = 0.5 on 4 of 5 obs.

• MAR 24, 1991 03h 12m 58.45± 1.22s
46.849 N ± 7.5km 13.393 E ±11.0km
DEPTH = 10.0km (geophysicist)
AUSTRIA (546)
ML 1.9 (KBA).

KBA 0.23 352 iPgd 13 03.50 0.0
iSg 13 06.80
FVI 0.49 239 P 13 07.80 -0.6
eSg 13 14.00
SCE 1.17 280 ePg 13 20.10 -0.3
TRI 1.17 167 P 13 20.00 -0.3
eSg 13 36.00
CTI 1.45 237 P 13 26.00 1.2
S.D. = 1.0 on 5 of 5 obs.

? MAR 24, 1991 03h 31m 14.62± 2.47s
23.209 N ±10.9km 123.279 E ±27.8km
DEPTH = 29.9 ± 17.6 km
4.2mb (6 obs.)
SOUTHWESTERN RYUKYU ISLANDS (246)

TWF1 1.83 275 ePc 31 44.10 -0.4
TWG 2.07 260 iPd 31 48.10 0.1
ANP 2.54 321 eP 32 04.50 9.7X
CVP 5.64 194 eP 32 38.80 0.1
BAG 7.22 201 eP 33 04.50 3.4X
LZH 21.16 312 eP 36 00.60 0.7
1.5s 23.00nm 4.4mb
Z 15s 0.58um 4.1MszX
pP 36 03.80 12kmX
WRA 44.23 165 P 39 22.00 -1.1
0.8s 2.90nm 4.2mb
WB2 44.23 165 iPd 39 22.30 -0.8
0.7s 3.20nm 4.3mb
ASPA 47.72 167 eP 39 52.70 1.9
2.0s 8.00nm 4.4mb
INK 73.40 22 eP 42 46.00 0.7
NB2 79.97 333 P 43 21.60 -0.7
1.0s 1.80nm 4.0mb
YKA 83.11 23 eP 43 38.00 -0.6
1.2s 1.20nm 3.9mb
S.D. = 1.1 on 10 of 12 obs.

& MAR 24, 1991 03h 42m 08.80s
36.963 N 121.738 W
DEPTH = 13.0km
4.3mb (5 obs.)
CENTRAL CALIFORNIA (39)
<BRK>. ML 4.5 (BRK).
Mo=2.0•10••16 Nm (BRK). Felt (V) at Aromas and Ben Lomond; (IV) at Aptos, Cupertino, Hallister, Los Gatos, Monterey, Morgan Hill, New Almaden, Santa Cruz, Soquel and Watsonville; (III) at Alameda, Campbell, Gilroy, Half Moon Bay, Patterson and San Carlos. Also felt at Carmel Valley, Felton, Menlo Park, Ookland, Salinas, San Jose and San Francisco.

GCC 0.22 288 iPd 42 13.64 -0.1
SAO 0.31 130 iPd 42 14.60 -0.8
MHC 0.39 11 iP 42 17.00 0.1
ARN 0.42 23 iPc 42 17.60 0.1

```
PRS      0.70 155 iPd    42 21.70  -0.6
LLA      0.73 118 iPd    42 22.06  -0.7
PCC      0.74 316 iPd    42 22.57  -0.5
BKS      0.99 337 iPd    42 26.20  -1.2
                  iS     42 40.80
BRK      1.00 336 iPd    42 26.20  -1.2
ZSP      1.06 337 iPc    42 27.48  -1.1
PRI      1.19 133 ePd    42 29.62  -1.2
CMB      1.52  45 iPc    42 34.40  -1.3
PKEM     1.59 124 eP     42 35.60  -1.1
FRI      1.63  88 iPc    42 35.30  -1.9
                  eS     42 55.37
NWRM     1.75 329 eP     42 36.00  -2.9
BCH      2.22 142 eP     42 43.50  -2.5
ORV      2.60   4 ePc    42 49.50  -1.7
BLP      2.63 155 eP     42 48.90  -2.8
BONR     2.91  69 eP     42 55.00  -0.9
ABL      2.94 135 eP     42 52.80  -3.4
MIN      3.38   2 ePc    43 02.50   0.1
KVN      3.55  53 eP     43 03.00  -1.9
WDC      3.67 350 ePc    43 03.70  -2.7
TNP      3.76  71 eP     43 06.50  -1.5
FHC      4.21 336 eP     43 13.30  -0.9
LBFM     4.38 358 eP     43 16.50  -0.2
PEC      4.83 128 eP     43 19.00  -4.0
PLM      5.38 131 eP     43 26.00  -4.8
LRM     11.26  35 eP     44 56.40   3.8
ALQ     12.55  95 e(P)   45 09.00  -1.0
SES     15.47  26 eP     45 48.00  -0.2
EDM     17.28  17 eP     46 12.20   1.0
MEO     18.88  90 e(P)   46 30.50  -0.6
TUL     20.89  85 eP     46 50.50  -2.6
        0.8s      7.80nm          4.1mb
    Z  17s      0.08um          3.2MszX
                  LR     53 59.90
FFC     22.34  31 iPd    47 06.00  -1.5
        0.8s     13.00nm          4.4mb
YKA     25.94   8 eP     47 57.50  15.4
        0.7s      0.90nm
PMR     30.01 334 e(P)   48 18.00  -1.1
INK     32.08 352 eP     48 37.00  -0.1
TTA     33.36 332 eP     48 47.70  -0.8
        0.8s      3.10nm          4.3mb
IMA     34.52 338 eP     48 58.40  -0.2
        0.8s      1.29nm          3.9mb
RSNY    36.14  63 e(P)   49 14.00   1.6
        0.9s      9.29nm          4.7mb
FRB     41.44  33 eP     50 01.00   4.8
       42 obs. associated
-----------------------------------------
&  MAR 24, 1991  03h 46m 00.80s
   36.963 N          121.735 W
   DEPTH =  12.0km
 CENTRAL CALIFORNIA                ( 39)
      <BRK>. ML 2.7 (BRK).

GCC      0.22 288 iPc    46 05.63  -0.1
                  iS     46 09.18
SAO      0.31 130 iPd    46 06.67  -0.6
MHC      0.39  11 iPd    46 09.10   0.3
                  iS     46 13.10
ARN      0.42  23 iPc    46 09.50   0.1
PRS      0.70 155 iPd    46 13.78  -0.6
LLA      0.72 118 iPd    46 14.24  -0.6
PCC      0.74 316 iPd    46 14.77  -0.4
BKS      1.00 337 e(P)   46 23.30   3.8
BRK      1.00 335 eP     46 18.10  -1.4
PRI      1.19 133 eP     46 23.30   0.4
CMB      1.52  45 eP     46 26.50  -1.3
                  eS     46 49.40
       11 obs. associated
-----------------------------------------
&  MAR 24, 1991  03h 52m 05.60s
   36.963 N          121.735 W
   DEPTH =  12.0km
 CENTRAL CALIFORNIA                ( 39)
      <BRK>. ML 2.8 (BRK).

GCC      0.22 288 iPc    52 10.39  -0.1
                  iS     52 13.90
SAO      0.31 130 iPc    52 11.44  -0.6
MHC      0.39  11 iPd    52 13.90   0.3
                  iS     52 17.60
ARN      0.42  23 iPc    52 14.20   0.0
PRS      0.70 155 eP     52 18.55  -0.6
                  eS     52 28.40
LLA      0.72 118 ePc    52 18.70  -1.0
                  eS     52 28.71
PCC      0.74 316 iPd    52 19.52  -0.5
                  eS     52 29.33
BKS      1.00 337 e(P)   52 24.10  -0.2
BRK      1.00 335 eP     52 24.60   0.3
                  eS     52 37.20
PRI      1.19 133 eP     52 27.70   0.0
                  eS     52 44.80
CMB      1.52  45 eP     52 31.80  -0.8
                  eS     52 53.30
FRI      1.62  88 eP     52 32.30  -1.8
CIN    100.73  24 ePdiff05 44.00 -11.1
       13 obs. associated
-----------------------------------------
*  MAR 24, 1991  04h 04m 06.43± 1.96s
   35.462 N ±24.6km   27.537 E ±13.2km
   DEPTH =  10.0km  (geophysicist)
 DODECANESE ISLANDS                (369)
      MD 3.6 (ATH).

ARG      0.89  32 ePb    04 22.80  -0.7
NPS      1.59 263 ePb    04 35.00   0.4
YER      1.77  20 ePn    04 37.60   0.2
ELL      2.31  56 eP     04 44.80  -0.4
KHL      3.27  29 eP     05 00.00   1.2
VLI      3.93 290 ePn    05 07.50  -0.6
      S.D. = 0.9  on   6 of   6 obs.
-----------------------------------------
&  MAR 24, 1991  04h 05m 12.90s
   37.648 N          118.950 W
   DEPTH =   4.0km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      <BRK>. ML 3.5 (BRK). Hypocenter
      is for small foreshock, ML 2.2,
      4.6 seconds before the ML 3.5
      event (BRK).

BONR     0.60  59 eP     05 23.00  -1.9
FRI      0.89 223 iPc    05 33.90   3.4
                  iS     05 45.40
CMB      1.20 289 iPc    05 40.10   4.2
                  iS     05 55.20
TNP      1.44  72 eP     05 39.10  -0.9
KVN      1.55  25 e(P)   05 41.50   0.0
PKEM     1.84 211 eP     05 50.00   4.5
LLA      1.90 238 iPc    05 51.30   4.9
PRI      2.04 223 iPd    05 53.70   5.2
ARN      2.08 263 eP     05 53.50   4.5
MHC      2.16 263 eP     05 55.70   5.4
SAO      2.18 247 eP     05 55.50   5.1
PRS      2.34 237 iPd    05 57.90   5.1
BCH      2.62 201 eP     06 00.50   3.6
BRK      2.63 276 eP     06 01.40   4.5
       14 obs. associated
-----------------------------------------
&  MAR 24, 1991  04h 11m 21.10s
   37.647 N          118.948 W
   DEPTH =   5.0km
   3.0mb (  1 obs.)
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      <BRK>. ML 3.6 (BRK), 3.5 (PAS).

BONR     0.60  59 eP     11 32.00  -1.1
FRI      0.89 223 iPc    11 37.60  -1.1
                  iS     11 49.10
CMB      1.20 289 ePc    11 43.20  -0.8
                  iS     11 58.90
TNP      1.44  72 iP     11 47.50  -0.5
KVN      1.55  25 eP     11 49.00  -0.6
PKEM     1.84 211 eP     11 54.00   0.5
LLA      1.90 238 iPc    11 54.80   0.3
PRI      2.04 223 eP     11 56.60   0.0
ARN      2.08 263 eP     11 57.00  -0.1
CLC      2.12 149 eP     11 59.90   2.1
MHC      2.16 263 eP     11 59.50   1.1
SAO      2.18 247 iP     11 59.40   0.9
BKS      2.62 276 iPd    12 05.40   0.7
BCH      2.62 201 eP     12 04.50  -0.4
BRK      2.63 276 eP     12 05.70   0.7
ZSP      2.64 277 iPd    12 06.10   1.1
PCC      2.73 268 eP     12 07.00   0.6
ORV      2.76 314 eP     12 07.40   0.5
ABL      2.80 185 eP     12 07.50  -0.1
BLP      3.30 201 eP     12 15.00   0.6
PEC      4.02 158 eP     12 24.70   0.0
YKA     25.02   5 eP     16 49.80   2.7
        0.3s      0.10nm          3.0mb
       22 obs. associated
-----------------------------------------
*  MAR 24, 1991  04h 14m 55.90± 0.74s
   46.093 N ±10.7km   90.533 E ±12.8km
   DEPTH =  33.0km  (normal)
   4.2mb (  4 obs.)
 NORTHERN XINJIANG, CHINA          (332)

WMO      3.04 223 iPnd   15 43.80   1.0
GTA      9.54 131 P      17 14.00  -0.2
                  PP     17 21.50
                  S      19 00.00
TIY     18.28 109 eP     19 13.40   4.8X
     Z  14s      0.48um
     E  11s      0.25um
                  eS     22 35.00
SHL     20.51 177 eP     19 33.00  -1.0
HFS     45.49 317 eP     23 12.50  -0.9
        0.4s      1.00nm          4.1mb
NB2     46.36 319 P      23 19.70  -0.6
        0.7s      2.80nm          4.3mb
MBC     56.44   8 eP     24 43.50   7.4X
        0.9s      5.00nm          4.5mb
INK     61.27  17 eP     25 11.00   1.3
WRA     76.76 138 P      26 46.00   0.3
        0.8s      1.70nm          4.1mb
      S.D. = 1.1  on   7 of   9 obs.
-----------------------------------------
&  MAR 24, 1991  04h 16m 38.40s
   60.068 N          152.526 W
   DEPTH =  97.9km
   3.5mb (  2 obs.)
 SOUTHERN ALASKA                   (  2)
      <AEIC>.

RED      0.37 341 iPd    16 52.79  -0.7
                  eS     17 03.97
RSO      0.41 344 iPd    16 53.23  -0.6
RS2      0.41 344 iPd    16 53.24  -0.6
REF      0.43 348 iPd    16 53.40  -0.5
RDN      0.46 345 iPd    16 53.49  -0.6
RDT      0.51   7 iPd    16 53.69  -0.7
                  iS     17 05.78
NCT      0.53 338 iPd    16 53.71  -0.9
NNL      0.62  92 iPc    16 55.42   0.3
XLV      0.74 146 iPd    16 55.50  -0.7
                  eS     17 09.01
AUH      0.85 214 iPd    16 56.50  -0.9
CNPM     0.85 129 iPc    16 56.78  -0.6
                  iS     17 11.27
AUI      0.87 212 iPd    16 56.45  -1.0
                  eS     17 10.67
BRLK     0.88 110 iPc    16 57.01  -0.7
                  eS     17 11.07
NKA      0.93  43 iPc    16 59.27   1.1
CKL      1.14   5 iPd    16 59.87  -0.8
SPU      1.14  12 iPd    16 59.87  -0.8
                  eS     17 16.80
BGL      1.20   3 iPd    17 00.76  -0.6
CRP      1.22   8 iPd    17 01.00  -0.6
SLKM     1.23  68 iPc    17 00.16  -1.5
MCNL     1.28 227 iPd    17 00.75  -1.4
                  iS     17 1B.26
NCG      1.35   8 iPd    17 02.34  -0.9
SYI      1.46 177 iPd    17 03.15  -1.3
SEW      1.54  87 iPc    17 03.61  -1.8
SUA      1.65  31 iPd    17 06.26  -0.7
                  eS     17 27.68
SVW      1.85 306 iPc    17 0B.20  -1.3
PMS      1.88  50 ePc    17 0B.52  -1.3
SKT      1.98  14 iPd    17 09.74  -1.4
PWA      2.05  38 ePd    17 10.70  -1.3
PLRM     2.26  46 ePd    17 12.56  -2.2
PMR      2.26  46 eP     17 12.70  -2.1
LTI      2.34  89 eP     17 14.31  -1.7
KNIM     2.41  81 iPc    17 13.B8  -3.0
KNK      2.41  54 ePd    17 14.78  -2.1
MTU      2.45  90 iPc    17 15.52  -1.9
GHO      2.45  44 ePd    17 15.33  -2.2
CUT      2.59  24 iPd    17 17.55  -1.7
GLI      2.81  71 eP     17 18.50  -3.8
HIN      3.02  81 ePc    17 21.97  -3.3
VZW      3.11  69 iPc    17 23.12  -3.3
MID      3.20  99 ePc    17 25.32  -2.2
HUR      3.23  24 ePd    17 26.90  -1.2
VLZ      3.24  68 eP     17 24.98  -3.1
TTA      3.32 331 eP     17 27.20  -2.2
```

24d 04h

CVA	3.41	79	ePc	17	26.77	-3.6
KLU	3.54	63	iPc	17	29.40	-3.0
TRF	3.56	16	eP	17	30.46	-2.2
SGAM	3.67	80	ePc	17	30.26	-3.8
TOA	3.70	54	eP	17	32.50	-2.0
RND	3.78	26	ePd	17	33.56	-2.1
RAGM	3.93	82	ePc	17	35.22	-2.4
TZL	3.98	57	eP	17	35.92	-2.4
MCK	4.05	23	eP	17	37.44	-1.9
HMT	4.13	83	ePc	17	38.32	-2.2
SDG	4.17	51	ePc	17	38.52	-2.5
BWN	4.36	18	ePd	17	41.73	-1.8
PAX	4.46	46	eP	17	42.53	-2.5
GLB	4.49	68	iPc	17	41.99	-3.4
			S	18	30.59	
NEA	4.80	18	ePd	17	46.82	-2.8
WAX	4.83	81	ePc	17	45.78	-4.4
TGL	4.86	78	eP	17	47.76	-2.7
WRH	4.88	23	ePd	17	47.70	-3.0
DDM	4.88	37	ePd	17	49.48	-1.3
HDA	5.07	28	ePd	17	50.42	-3.0
CCB	5.09	24	ePd	17	50.48	-3.2
BALM	5.12	75	eP	17	50.39	-3.8
RDS	5.19	21	ePc	17	51.96	-3.1
WRG	5.26	86	eP	17	53.46	-2.6
MDM	5.30	20	ePd	17	53.33	-3.2
FBA	5.32	22	eP	17	53.60	-3.3
DOT	5.38	44	eP	17	55.45	-2.2
GLM	5.48	23	ePd	17	55.85	-3.2
TMW	5.59	50	eP	17	59.97	-0.6
CTGM	5.60	76	ePc	17	58.68	-2.2
IMA	6.05	356	eP	18	03.90	-3.1
YKU	6.48	89	eP	18	10.32	-2.4
FYU	7.30	24	eP	18	20.63	-3.3
SIT	9.48	101	eP	18	50.70	-2.9
INK	11.64	37	eP	19	18.00	-4.5
YKA	18.21	66	eP	20	43.10	-2.6
	0.5s		0.60nm			3.1mb
MBC	19.87	23	eP	21	00.00	-3.5
	0.5s		3.00nm			3.9mb
	80 obs. associated					

& MAR 24, 1991 04h 26m 25.40s
37.645 N 118.938 W
DEPTH = 3.0km
3.2mb (1 obs.)
CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 3.6 (BRK). Felt at Mammoth Lakes and June Lake, California.

BONR	0.59	58	iP	26	36.30	-0.9
FRI	0.90	224	iPc	26	41.79	-1.4
			iS	26	52.56	
CMB	1.21	289	iPc	26	47.50	-1.1
			iS	27	04.70	
TNP	1.43	72	iPc	26	51.80	-0.6
KVN	1.55	25	eP	26	53.30	-0.8
PKEM	1.84	211	eP	26	58.50	0.4
LLA	1.90	238	iPc	26	59.09	0.0
PRI	2.04	223	iPc	27	01.12	-0.1
ARN	2.08	263	eP	27	01.20	-0.5
MHC	2.17	263	ePc	27	03.40	0.3
			iS	27	28.20	
SAO	2.19	247	iPd	27	03.25	0.1
PRS	2.35	237	iPc	27	05.48	0.0
GCC	2.51	257	iPc	27	07.40	-0.4
BCH	2.62	201	eP	27	09.00	-0.5
BKS	2.62	276	ePd	27	09.80	0.4
ZSP	2.65	278	iPd	27	10.14	0.4
PCC	2.74	268	iPc	27	10.70	-0.4
ORV	2.77	314	eP	27	12.06	0.5
ABL	2.80	185	eP	27	11.80	-0.3
PEC	4.01	158	eP	27	29.40	0.2
YKA	25.02	5	eP	31	53.00	1.3
	0.8s		0.40nm			3.2mb
	21 obs. associated					

MAR 24, 1991 05h 00m 42.33± 0.62s
44.386 N ± 4.2km 6.452 E ± 7.9km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.4 (LDG).

FOUF	0.28	59	iPgd	00	47.85	-0.3
			e(Sg)	00	50.10	
FRF	0.84	170	Pg	00	58.80	0.3
			Sg	01	10.00	
CDR	0.87	215	e(Pg)	00	59.20	0.2
			e(Sg)	01	11.50	
SBF	0.88	126	Pg	00	59.60	0.3
			Sg	01	12.40	
LRG	0.93	184	Pg	00	59.50	-0.6
			Sg	01	12.00	
LMR	1.05	178	Pg	01	02.10	-0.1
			Sg	01	16.00	
LPG	1.13	11	Pg	01	03.80	0.1
LPL	1.15	10	Pg	01	04.00	0.0
	S.D. = 0.4		on	8 of	8 abs.	

MAR 24, 1991 05h 05m 06.23± 0.51s
50.314 N ± 5.1km 12.202 E ± 4.5km
DEPTH = 10.0km (geophysicist)
GERMANY (543)
ML 2.6 (FUR), 2.5 (GRF).

HOF	0.21	270	iPgc	05	11.10	0.3
			iSg	05	14.20	
MOX	0.50	312	iPg	05	16.50	0.1
			iSg	05	24.00	
GRF	0.89	226	ePg	05	22.90	-0.4
			eSg	05	34.50	
CLL	1.12	27	iPn	05	26.80	-0.4
			iPg	05	27.50	
			iSg	05	42.50	
BRG	1.24	63	iPg	05	29.40	0.1
			i	05	33.50	
			iSg	05	45.50	
WET	1.25	159	iPgc	05	29.40	-0.1
KHC	1.48	142	iPg	05	33.00	0.0
			Sg	05	52.00	
PRU	1.54	101	Pn	05	34.10	0.4
			i	05	38.50	
			Sg	05	55.00	
FUR	2.23	196	iPg	05	49.20	5.3X
TNS	2.41	269	ePn	05	51.90	5.5X
			eSn	06	22.40	
KSP	2.66	77	eP	05	56.00	6.1X
			iS	06	29.00	
	S.D. = 0.3		on	8 of	11 abs.	

& MAR 24, 1991 05h 54m 48.70s
37.645 N 118.945 W
DEPTH = 3.0km
3.3mb (1 obs.)
CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 3.6 (BRK). Hypocenter is far small foreshock, ML 2.1, 9.0 seconds before the ML 3.6 event (BRK).

BONR	0.60	59	eP	54	59.40	-1.2
FRI	0.89	223	ePc	55	12.20	5.8
			iS	55	24.60	
CMB	1.20	289	iPd	55	18.50	6.7
			iS	55	36.00	
TNP	1.43	72	eP	55	14.80	-1.0
KVN	1.55	25	eP	55	16.90	-0.6
PKEM	1.84	211	eP	55	27.00	5.6
LLA	1.90	238	eP	55	29.50	7.2
PRI	2.04	223	ePd	55	33.80	9.4
ARN	2.08	263	P	55	23.80	-1.2
MHC	2.17	263	eP	55	35.50	9.2
PRS	2.34	237	eP	55	37.70	9.0
BKS	2.62	276	eP	55	41.50	8.9
BCH	2.62	201	eP	55	34.50	1.7
BRK	2.64	276	eP	55	41.80	8.9
ORV	2.77	314	eP	55	46.70	11.9
ABL	2.80	185	eP	55	38.00	2.6
PEC	4.02	158	eP	56	01.00	8.5
YKA	25.02	5	eP	00	24.70	9.7
	0.8s		0.50nm			3.3mb
	18 abs. associated					

MAR 24, 1991 06h 39m 22.00± 0.67s
16.831 S ± 7.0km 177.305 E ± 4.2km
DEPTH = 11.5 ± 4.5 km
5.2mb (21 obs.) 5.1Msz (9 obs.)
FIJI ISLANDS (182)
Felt (V) in the Yasawa Islands group and (IV) in the Nadi-Tavua area, Viti Levu.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 33C
Centroid Location:
Origin Time 06:39:30.9 0.7
Lat 16.28S 0.08 Lon 177.14E 0.04
Dep 15.0 FIX Half-duration 1.9
Moment Tensor; Scale 10**17 Nm
Mrr=-0.10 0.05 Mtt= 0.18 0.08
Mff=-0.08 0.07 Mrt= 0.09 0.18
Mrf=-0.58 0.18 Mtf= 1.58 0.04
Principal Axes:

	Val=	Plg=	Azm=
T	1.70	11	136
N	-0.01	69	16
P	-1.69	17	229

Best Double Couple:Mo=1.7*10**17
NP1:Strike=272 Dip=70 Slip= -5
NP2: 3 85 -160

NDF	0.93	171	iPc	39	39.10	-0.5
SGE	0.96	142	iPc	39	41.00	0.8
MBU	1.36	96	eP	39	44.60	-2.3
			eS	40	01.00	
VUN	1.61	137	iPc	39	50.90	0.5
			eS	40	13.10	
OVA	1.65	121	iP	39	50.40	-0.6
			eS	40	08.90	
SVA	1.69	139	iPc	39	51.20	-0.3
			eS	40	13.30	
NDE	1.94	83	ePc	39	51.30	-4.0X
			eS	40	14.80	
KRO	2.05	104	iPc	39	54.10	-2.7X
			eS	40	16.80	
PVC	8.64	263	iPc	41	31.50	1.7
DZM	11.49	241	iPc	42	09.90	0.8
HNR	18.42	291	eP	43	39.00	-0.1
			eS	47	08.00	
SVO	18.66	292	P	43	41.00	-1.0
WEL	24.47	185	P	44	42.00	0.0
BRS	24.99	241	iPc	44	47.70	0.5
COO	26.91	235	iPc	45	05.90	0.8
	1.0s		56.00nm			5.2mb
RMQ	28.16	245	iPd	45	15.50	-1.0
CTA	29.61	259	iPd	45	28.00	-1.5
	1.1s		56.96nm			5.3mb
PMG	30.25	280	e(P)	45	25.00	-10.2X
CMS	32.07	237	ePd	45	50.50	-0.7
	0.9s		67.00nm			5.6mb
QLP	32.14	247	eP	45	51.00	-0.8
STK	35.63	238	iPd	46	42.10	20.2X
	1.3s		23.90nm			
			iPP	47	41.10	
			iS	52	23.30	
QIS	35.85	258	eP	46	21.50	-2.4
TAU	36.42	218	eP	46	32.00	3.6X
			e	52	13.00	
BFD	36.72	230	eP	46	31.00	0.0
WB2	40.80	259	iPd	47	02.50	-2.7X
	1.0s		10.80nm			4.5mb
			eS	53	32.10	
ASPA	41.16	253	iPd	47	06.30	-1.9
	1.3s		47.10nm			5.1mb
CGP	57.77	292	eP	49	16.00	0.2
MAT	64.66	326	eP	50	03.00	1.0
	1.9s		57.89nm			5.4mb
Z	20s		1.06um			5.0Msz
			eS	5B	43.00	
SPA	73.28	180	iPd	50	54.80	-0.3
	1.0s		40.00nm			5.4mb
			i	51	24.80	
NJ2	74.12	311	eP	51	00.00	-0.3
MDJ	75.00	327	eP	51	04.50	-0.6
DL2	76.03	318	eP	51	13.00	1.9
Z	20s		0.30um			4.6Msz
SNY	76.57	322	eP	51	10.80	-3.2X
Z	30s		1.00um			5.0MszX
			pP	51	18.50	25kmX
WHN	76.69	308	eP	51	12.50	-2.5
CN2	76.71	324	Pc	51	14.20	-0.6
	5.0s		300.00nm			5.6mb X
Z	28s		1.40um			5.1MszX
			pP	51	25.00	35kmX
			eS	01	00.00	
			eSS	06	00.00	
TIA	77.53	314	eP	51	19.00	-0.5
Z	35s		1.10um			4.9MszX
			S	01	14.00	
PRS	78.38	46	eP	51	25.50	1.3
SYP	78.46	48	eP	51	25.00	0.1

SAO	78.56	46	eP	51	26.40	1.2
BRK	78.58	45	eP	51	26.70	1.5
MHC	78.72	45	eP	51	27.70	1.5
PRI	78.78	47	eP	51	28.20	1.6
PAS	79.58	50	eP	51	36.00	5.2X
MWC	79.70	50	eP	51	32.00	0.3
WDC	79.83	42	ePc	51	32.20	0.2
FRI	79.87	46	eP	51	32.20	-0.1
CMB	79.93	45	eP	51	32.60	-0.1
ORV	79.97	43	P	51	33.10	0.3
SBB	80.09	49	eP	51	33.00	-0.6
RVR	80.09	50	eP	51	33.00	-0.6
PLM	80.17	51	eP	51	35.00	0.8
BJI	80.18	317	eP	51	34.50	0.7
	Z 28s		0.69um			4.9MszX
			eS	01	42.00	
PEC	80.20	50	P	51	34.20	0.0
SVW	80.64	13	eP	51	35.10	-0.9
RSO	80.72	15	P	51	35.10	-1.5
CLC	80.79	48	eP	51	37.00	-0.3
GYA	80.96	301	P	51	43.00	4.5X
GSC	81.12	49	eP	51	39.00	-0.1
TPC	81.12	50	eP	51	39.00	-0.1
SLKM	81.39	16	P	51	38.80	-1.1
TIY	81.53	313	eP	51	45.00	3.8X
	Z 24s		0.82um			5.0MszX
GLA	81.56	52	eP	51	43.00	1.6
TNP	82.13	46	P	51	44.00	-0.4
	1.1s		25.97nm			5.2mb
TTA	82.21	12	eP	51	44.00	-0.1
	1.3s		30.66nm			5.2mb
XAN	82.38	309	P	51	45.20	-0.4
PMR	82.59	15	eP	51	45.70	-0.3
	1.8s		102.20nm			5.7mb
BMW	82.63	37	P	51	46.00	-0.7
HHC	83.63	316	eP	51	52.60	0.6
KHT	83.78	287	eP	51	53.00	0.0
TOA	83.80	16	eP	51	52.90	0.6
RMW	83.99	37	P	51	53.80	0.2
CHG	84.79	291	eP	51	58.90	0.8
CD2	85.06	304	eP	52	00.40	1.1
FBA	85.71	14	P	52	00.40	-1.4
	1.1s		9.38nm			4.9mb
MSU	85.87	48	P	52	03.50	0.1
LZH	87.01	309	Pd	52	09.50	0.5
	5.0s		290.00nm			5.8mb X
			pP	52	14.50	16kmX
NEW	87.10	38	P	52	09.00	0.0
	1.2s		15.91nm			5.1mb
PV09	88.04	49	P	52	13.50	-0.5
ALQ	88.68	53	eP	52	16.00	-1.1
	1.2s		14.45nm			5.1mb
	Z 20s		0.71um			5.1Msz
ANMO	88.68	53	P	52	16.20	-0.8
	1.0s		2.50nm			4.5mb
LRM	88.82	41	eP	52	16.70	-0.8
BW06	89.44	45	P	52	20.00	-0.5
	1.0s		7.00nm			4.9mb
GOL	91.20	49	P	52	28.00	-0.8
	1.0s		10.50nm			5.1mb
GTA	91.22	311	eP	52	29.00	0.3
	1.6s		30.00nm			5.4mb
GLD	91.33	49	P	52	30.50	1.2
	1.2s		20.20nm			5.3mb
EDM	91.54	34	eP	52	29.50	-0.2
SES	91.61	37	ePc	52	29.50	-0.7
RSSD	93.67	45	P	52	39.00	-1.0
	1.2s		23.69nm			5.5mb
MEO	94.73	55	e(P)	52	41.80	-3.0X
YKA	95.10	26	eP	52	44.40	-1.5
	1.0s		1.60nm			4.4mb
TUL	97.24	55	eP	52	54.90	-1.3
	1.2s		22.20nm			5.6mb
	Z 20s		0.86um			5.2Msz
			LR	24	17.50	
KRA	142.16	336	ePKP	59	02.40	6.4X
CLL	143.39	343	e(PKP)	58	55.00	-3.0X
			e	59	02.00	
			e	59	39.00	
BRG	143.51	342	ePKP	58	57.00	-1.3
			e	59	07.30	
PRU	144.12	341	PKP	58	58.10	-1.2
			e	59	09.90	
MOX	144.36	344	ePKP	58	59.00	-0.7
PVL	144.53	324	ePKP	59	00.00	-0.2
SRO	144.61	335	iPKP	59	04.60	4.4X
ZST	144.76	337	ePKP	59	00.60	0.1
BZS	144.84	330	ePKP	59	01.00	0.3
VKA	145.00	338	iPKPc	59	02.40	1.5
	3.0s		403.00nm			
			i	59	04.80	
			i	59	42.60	
KHC	145.17	341	iPKP	59	00.80	-0.4
	1.1s		12.00nm			
GRF	145.34	344	ePKP	59	00.90	-0.5
	Z 21s		0.30um			5.0Msz
			e	59	06.70	
			e	59	12.50	
			e	59	14.20	
KDZ	145.45	321	ePKP	59	02.00	0.1
ENN	145.45	350	ePKP	59	07.00	5.5X
	2.0s		167.00nm			
UZD	145.47	334	e(PKP)	59	00.00	-1.7
PLD	145.59	323	ePKP	59	03.00	0.9
MEM	145.59	350	PKPc	59	02.00	0.3
PGB	145.61	324	iPKP	59	03.00	0.8
UCC	145.65	352	PKP+	59	02.00	0.1
RZN	145.84	322	iPKP	59	03.00	0.2
KMR	145.93	340	iPKP+	59	03.00	0.5
SNF	145 94	352	PKPc	59	06.70	4.3X
EZN	145.95	318	ePKP	59	02.60	-0.1
BEO	145.98	330	ePKP	59	03.00	0.4
DOU	146.30	352	PKP	59	02.50	-0.5
MMB	146.48	323	ePKP	59	05.00	1.4
BHG	146 63	341	ePKP	59	05.30	1.7
KBA	147.05	340	ePKP	59	05.00	0.5
	1.0s		12.50nm			
			ic	59	05.60	
			i	59	15.70	
VAY	147.31	323	ePKP	59	07.00	2.1X
CDF	147.46	348	ePKP	59	06.00	1.0
	0.9s		16.40nm			
SKO	147.51	325	iPKP	59	08.20	3.0X
LJU	147.52	337	ePKP	59	07.00	1.9X
VBY	147.70	336	ePKP	59	08.50	3.1X
VOY	147.77	338	ePKP	59	07.20	1.6
FEL	147.81	346	ePKP	58	56.38	-9.3X
CEY	147.82	337	ePKP	59	08.30	2.7X
OGA	147.96	342	ePKP	59	09.00	3.0X
HAU	148.04	348	ePKP	59	07.40	1.5
	Z 21s		0.38um			5.2Msz
TRI	148.09	338	ePKPc	59	08.00	2.0X
FLN	148.10	357	ePKP	59	07.60	1.7
	1.2s		46.65nm			
	Z 20s		0.43um			5.2Msz
BSF	148.11	348	ePKP	59	07.50	1.4
	1.1s		17.10nm			
OHR	148.45	325	ePKP	59	07.00	0.2
	2.0s		272.00nm			
GRR	148.49	358	ePKP	59	08.60	2.1X
LPF	148.86	358	ePKP	59	09.70	2.6X
	1.2s		50.60nm			
LOR	149.17	351	ePKP	59	10.40	2.7X
	0.9s		16.40nm			
	Z 22s		0.45um			5.2Msz
SSF	149.42	352	ePKP	59	11.10	3.0X
	1.4s		61.00nm			
LBF	149.43	351	ePKP	59	11.10	3.0X
	1.2s		23.80nm			
AVF	149.71	352	ePKP	59	11.30	2.8X
	1.0s		14.00nm			
SMF	149.78	351	ePKP	59	11.70	3.1X
	1.3s		36.10nm			
BGF	150.00	352	ePKP	59	12.50	3.6X
	1.4s		56.65nm			
MFF	150.24	356	ePKP	59	13.10	3.8X
	1.2s		46.65nm			
LPL	150.33	347	ePKP	59	14.10	4.3X
	1.0s		16.00nm			
LPG	150.34	347	ePKP	59	14.10	4.2X
	0.9s		12.30nm			
TCF	150.35	353	ePKP	59	13.30	3.8X
	0.9s		14.75nm			
MAF	150.37	353	ePKP	59	13.50	4.0X
	1.4s		45.75nm			
LSF	150.46	354	ePKP	59	13.30	3.7X
FIR	150.65	339	ePKP	59	15.00	5.1X
RJF	151.39	354	ePKP	59	16.10	5.0X
	Z 21s		0.45um			5.2Msz
BCAO	155.81	242	iPKPd	59	22.50	4.3X
	1.6s		52.00nm			
			id	59	29.00	
			id	59	45.80	
S.D. = 1.0 on 109 of 150 obs.						

? MAR 24, 1991 06h 39m 36.75± 2.22s
37.659 N ±28.6km 118.914 W ± 7.9km
DEPTH = 5.0km (geophysicist)
CALIFORNIA-NEVADA BORDER REGION (40)
MD 3.1 (GM).

BONR	0.57	58	eP	39	48.10	-0.1
CMB	1.22	288	eP	40	00.00	0.0
TNP	1.41	72	eP	40	03.30	0.0
KVN	1.53	24	eP	40	05.00	0.0
ARN	2.11	262	eP	40	15.00	1.9X

S.D. = 0.1 on 4 of 5 obs.

? MAR 24, 1991 06h 59m 22.11± 1.74s
15.674 N ±30.3km 92.019 W ±18.7km
DEPTH = 252.4 ± 15.0 km
3.8mb (1 obs.)
MEXICO-GUATEMALA BORDER REGION (62)

TPX	0.80	197	iP	59	56.50	-0.1
			iS	00	21.75	
SCX	1.21	331	iP	59	59.25	0.4
			iS	00	27.50	
OXX	4.73	288	iP	00	35.00	-0.4
			(S)	01	27.50	
IISM	6.09	304	eP	00	50.00	-2.0
			(S)	01	50.00	
IIT	6.87	300	iP	01	03.00	0.9
PPM	7.15	299	iP	01	06.75	0.8
III	7.62	292	iP	01	12.00	0.5
YKA	49.40	346	eP	07	48.00	-0.1
	0.5s		2.00nm			3.8mb

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

MAR 24, 1991 07h 16m 54.35± 0.59s
41.044 N ± 6.4km 22.446 E ± 4.9km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MD 2.6 (THE).

GRG	0.09	201	ePc	16	57.28	0.3
			eS	16	59.64	
KNT	0.36	71	iPd	17	00.92	-0.9
			eS	17	02.32	
THE	0.57	136	iPd	17	05.17	-0.7
			eS	17	14.08	
SOH	0.72	108	iP	17	07.50	-1.1
			iS	17	19.50	
FNA	0.85	253	iPc	17	10.80	0.0
			iS	17	24.00	
SRS	0.87	85	ePd	17	09.96	-1.1
			eS	17	23.20	
MMB	1.11	60	iPgc	17	14.00	-1.2
			iSg	17	29.00	
SKO	1.20	321	iPn	17	15.70	-1.0
			iSn	17	31.00	
OHR	1.25	274	ePg	17	17.30	-0.3
			eSg	17	33.70	
PAIG	1.46	139	ePc	17	22.20	1.5
			eS	17	41.36	
VTS	1.65	20	eP	17	23.00	-0.6
			iSg	17	49.00	
RZN	1.83	69	iPg	17	28.00	1.8
PGB	1.98	40	eP	17	30.00	1.7
PLD	2.00	57	eP	17	33.00	4.5X
KDZ	2.32	74	iP	17	36.00	2.8X
			iS	18	04.00	
PVL	3.05	44	eP	17	45.00	1.5

S.D. = 1.2 on 14 of 16 obs.

MAR 24, 1991 07h 55m 57.92± 0.53s
37.637 N ± 5.8km 118.913 W ± 5.5km
DEPTH = 5.0km (geophysicist)
CALIFORNIA-NEVADA BORDER REGION (40)
MD 3.3 (GM).

BONR	0.58	57	iP	56	09.20	-0.4
CMB	1.23	289	eP	56	20.20	-1.1
TNP	1.41	71	eP	56	24.50	0.0
KVN	1.55	24	eP	56	26.70	0.3
PKEM	1.84	212	eP	56	31.00	0.6
ARN	2.10	263	eP	56	34.30	0.0
BCH	2.62	201	eP	56	41.80	0.0
ORV	2.79	314	e(P)	56	45.00	0.9
ABL	2.79	185	eP	56	44.00	-0.3

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

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&  MAR  24, 1991  08h 16m 59.03s
   58.721 N          143.398 W
   DEPTH =  10.0km  (geophysicist)
   3.2mb (  1 obs.)
 GULF OF ALASKA                  ( 15)
      <AEIC>.

WRG     1.49  27 iP    17 21.37   -4.6
                eS    17 38.45
MID     1.68 296 iP    17 23.73   -4.8
HMT     1.68 345 iP    17 24.01   -4.6
WAX     1.76   9 iP    17 24.92   -4.9
RAGM    1.79 339 iP    17 25.53   -4.7
SGAM    2.01 334 eP    17 28.77   -4.6
                iS    17 52.63
TGL     2.06   8 eP    17 29.18   -5.0
                eS    17 53.79
YKU     2.07  65 eP    17 30.60   -3.6
                eS    17 53.36
CVA     2.19 328 eP    17 30.41   -5.5
PNL     2.27  64 eP    17 31.84   -5.3
BCPM    2.29  56 eP    17 32.21   -5.2
                S     17 59.20
HIN     2.31 318 iP    17 32.84   -4.9
BALM    2.38  12 iP    17 33.72   -5.1
HQN     2.45  71 eP    17 34.39   -5.2
                eS    18 03.82
CTGM    2.48  24 iP    17 35.20   -5.0
                eS    18 03.40
MTU     2.52 302 iP    17 35.19   -5.5
                eS    18 04.38
LTI     2.64 302 eP    17 38.09   -4.2
GLB     2.74 356 iP    17 38.43   -5.4
                eS    18 08.54
KNIM    2.75 308 eP    17 38.08   -5.9
                eS    18 08.46
VLZ     2.83 330 eP    17 39.27   -5.8
VZW     2.83 327 iP    17 39.54   -5.7
GLI     2.86 321 eP    17 39.48   -6.0
KLU     3.05 337 iP    17 42.82   -5.5
SEW     3.39 297 eP    17 46.89   -6.1
TZL     3.48 344 iP    17 49.72   -4.6
TOA     3.66 339 iP    17 52.11   -4.9
KNK     3.70 319 eP    17 52.10   -5.4
SLKM    3.90 300 eP    17 53.53   -6.8
SDG     3.96 345 eP    17 55.91   -5.3
PMS     4.00 312 eP    17 56.17   -5.5
PLRM    4.06 318 iP    17 57.16   -5.3
GHO     4.12 320 eP    17 57.91   -5.5
CNPM    4.12 285 eP    17 58.53   -4.8
PWA     4.37 315 eP    18 01.47   -5.4
PAX     4.38 348 eP    18 01.45   -5.8
NKA     4.46 300 eP    18 03.24   -4.9
SUA     4.59 310 eP    18 04.16   -6.0
SYI     4.70 272 eP    18 06.97   -4.6
RDT     4.93 296 eP    18 08.65   -6.3
SPU     5.00 303 eP    18 09.06   -6.9
CUT     5.01 320 iP    18 10.66   -5.3
REF     5.05 295 eP    18 10.42   -6.3
RED     5.06 294 eP    18 10.66   -6.1
RSO     5.06 294 eP    18 10.90   -6.1
RS2     5.07 294 eP    18 11.11   -5.9
CRP     5.08 304 eP    18 12.38   -4.8
RDN     5.08 295 eP    18 10.67   -6.5
CKL     5.13 303 eP    18 11.20   -6.6
NCG     5.15 305 eP    18 12.17   -5.9
NCT     5.18 295 eP    18 11.75   -6.7
BGL     5.18 303 eP    18 12.24   -6.3
SKT     5.19 312 eP    18 12.36   -6.3
AUI     5.22 281 eP    18 14.67   -4.3
AUH     5.23 281 eP    18 14.64   -4.5
RND     5.39 333 eP    18 15.44   -6.1
MCNL    5.68 279 eP    18 20.47   -5.0
YKA    14.56  63 eP    20 28.70    1.9
       0.9s      0.60nm          3.2mb
       57 obs. associoted
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&  MAR  24, 1991  08h 56m 08.10s
   36.962 N          121.735 W
   DEPTH =  12.0km
 CENTRAL CALIFORNIA              ( 39)
      <BRK>. ML 3.2 (BRK).

GCC     0.22 288 iPc   56 12.94   -0.1
                iS    56 16.49
SAO     0.30 130 iPd   56 13.96   -0.6
MHC     0.39  11 iP    56 17.20    1.0
ARN     0.42  23 iPc   56 16.80    0.0
PRS     0.69 155 iPd   56 21.05   -0.6
                iS    56 30.85
LLA     0.72 118 iP    56 21.49   -0.7
                iS    56 32.30
PCC     0.74 316 iPd   56 22.01   -0.5
                iS    56 32.51
BKS     1.00 337 eP    56 25.40   -1.4
BRK     1.00 335 eP    56 25.60   -1.3
                iS    56 40.80
ZSP     1.07 337 eP    56 26.70   -1.3
PRI     1.19 133 eP    56 29.60   -0.6
CMB     1.52  45 eP    56 33.60   -1.5
                iS    56 52.20
PKEM    1.59 124 eP    56 35.50   -0.6
FRI     1.62  88 iPd   56 36.90    0.3
                iS    56 57.50
NWRM    1.75 329 P     56 40.80    2.4
BCH     2.22 142 eP    56 42.70   -2.7
ORV     2.60   4 eP    56 48.00   -2.6
KVN     3.55  53 eP    57 02.50   -1.8
TNP     3.76  71 e(P)  57 13.00    5.6
       19 obs. associoted
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&  MAR  24, 1991  09h 29m 25.47s
   60.168 N          152.769 W
   DEPTH =  96.5km
 SOUTHERN ALASKA                 (  2)
      <AEIC>.

RED     0.25 360 iPd   29 39.03    0.9
                eS    29 49.86
RSO     0.30   1 iPd   29 39.40   -0.7
                eS    29 51.52
RS2     0.30   1 iPd   29 39.45   -0.7
REF     0.32   6 iPd   29 39.58   -0.6
                eS    29 51.49
RDN     0.35   0 iPd   29 39.60   -0.7
                eS    29 51.62
NCT     0.40 349 iPd   29 39.80   -0.8
                eS    29 51.71
RDT     0.45  24 iPd   29 40.14   -0.7
                eS    29 52.16
NNL     0.75  99 ePd   29 43.66    0.4
AUH     0.88 203 eP    29 44.27   -0.4
XLV     0.89 143 eP    29 43.90   -0.8
AUI     0.90 202 eP    29 44.16   -0.6
                eS    29 58.28
NKA     0.95  52 ePc   29 46.52    1.2
CNPM    1.01 129 ePd   29 45.41   -0.6
                eS    30 01.24
BRLK    1.03 112 eP    29 46.37    0.1
                eS    30 01.47
CKL     1.05  11 iPd   29 45.96   -0.7
SPU     1.08  19 iPd   29 46.02   -0.8
                eS    30 03.30
BGL     1.11   9 iPd   29 46.81   -0.5
CRP     1.14  15 eP    29 47.09   -0.7
NCG     1.28  13 ePc   29 48.55   -0.7
SLKM    1.31  74 ePc   29 48.98   -0.7
SYI     1.57 173 eP    29 51.60   -1.2
SUA     1.64  36 ePc   29 53.28   -0.5
                eS    30 15.49
SEW     1.66  91 eP    29 52.87   -1.1
SVW     1.69 305 iPd   29 52.24   -2.2
PMS     1.91  54 ePc   29 56.61   -0.7
SKT     1.92  18 eP    29 56.22   -1.1
                S     30 21.13
PWA     2.05  42 eP    29 58.62   -0.4
PLRM    2.28  50 eP    30 00.23   -1.9
KNK     2.46  58 iPc   30 02.62   -1.9
GHO     2.47  48 eP    30 02.95   -1.9
KNIM    2.52  84 ePc   30 02.27   -3.1
CUT     2.55  27 eP    30 05.01   -0.7
MTU     2.57  92 ePd   30 04.01   -2.1
GLI     2.90  73 eP    30 07.03   -3.5
VZW     3.19  71 ePc   30 11.29   -3.3
VLZ     3.31  70 eP    30 13.30   -2.9
KLU     3.61  65 iPc   30 17.53   -2.8
TOA     3.74  56 eP    30 19.71   -2.5
TZL     4.03  59 eP    30 23.37   -2.7
       39 obs. associoted
---------------------------------------
?  MAR  24, 1991  09h 38m 33.81± 1.52s
   50.286 N ±10.4km   12.228 E ±11.2km
   DEPTH =  10.0km  (geophysicist)
 GERMANY                         (543)
      ML 2.0 (FUR).

HOF     0.23 277 ePg   38 38.80    0.1
                iSg   38 41.90
MOX     0.53 313 iPg   38 44.50   -0.1
                iSg   38 52.00
GRF     0.88 228 ePg   38 50.70    0.0
                eSg   39 02.20
CLL     1.14  25 iPg   38 55.10    0.0
                iSg   39 10.00
BRG     1.24  61 i(P)  39 01.20    4.3X
                iSg   39 12.10
      S.D. =  0.1  on   4 of   5 obs.
---------------------------------------
*  MAR  24, 1991  11h 25m 08.99± 1.06s
   73.846 N ±14.6km   80.213 W ± 9.7km
   DEPTH =  10.0km  (geophysicist)
   4.0mb (  7 obs.)
 BAFFIN ISLAND REGION            (682)

IGL     4.52 187 P     26 20.50    1.5
GDH     9.55 105 ePc   27 30.00    0.6
       0.6s     29.33nm          5.9mb X
                i     29 10.00
MBC    10.24 302 eP    27 34.00   -4.8X
       0.4s     19.00nm          5.9mb X
FRB    10.95 152 P     27 46.00   -2.6X
       0.6s     18.50nm          5.6mb X
DAG    15.20  51 eP    28 39.50   -5.3X
       0.3s     54.55nm          5.4mb X
                e     31 17.00
YKA    16.76 245 eP    28 57.70   -7.2X
       0.4s      2.90nm          3.8mb
INK    17.56 279 P     29 11.00   -3.9X
       0.7s      3.80nm          3.6mb
SCH    19.87 157 P     29 41.00   -1.7
       0.6s      4.70nm          4.0mb
FFC    21.12 217 eP    29 54.00   -1.7
       0.7s     10.00nm          4.3mb
FBA    23.96 284 eP    30 23.70    0.1
       0.8s      6.21nm          4.2mb
EDM    24.77 232 eP    30 32.00    0.4
BALM   25.54 273 e(P)  30 39.00    0.1
SES    26.94 226 P     30 52.00    0.1
       0.7s      3.00nm          4.1mb
RSSD   31.74 214 eP    31 35.50    0.4
GOL    36.27 214 eP    32 14.00   -0.1
       0.8s      2.38nm          4.1mb
TNP    40.00 228 eP    32 45.50    0.2
      S.D. =  1.1  on  11 of  16 obs.
---------------------------------------
   MAR  24, 1991  11h 30m 51.57± 0.97s
   37.041 N ± 9.6km   29.379 E ± 6.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)

ELL     0.52 124 iPg   31 01.80   -0.2
                eSg   31 08.30
YER     0.88 276 iPg   31 09.60    1.1
BCK     1.05  66 iPn   31 10.60   -0.9
CIN     1.17 299 eP    31 12.00   -1.4
KHL     1.28   5 iPn   31 14.80   -0.6
IZM     2.16 310 ePn   31 32.00    3.9X
DST     2.63 347 ePn   31 35.60    0.8
KCT     3.30 346 ePn   31 44.00   -0.3
YLV     3.52 360 ePn   31 55.90    8.4X
CSS     3.82 122 e(P)  31 55.50    3.8X
BBTK    3.86  42 eP    31 54.00    1.7
      S.D. =  1.3  on   8 of  11 obs.
---------------------------------------
   MAR  24, 1991  11h 35m 20.24± 1.14s
   53.243 N ± 8.8km  166.845 W ± 5.3km
   DEPTH =  79.3 ±  9.8 km
   4.5mb ( 18 obs.)
 FOX ISLANDS, ALEUTIAN ISLANDS   (  9)

SDN     4.27  58 eP    36 24.00   -0.2
ADK     6.15 261 eP    36 49.20   -1.2
SVW     9.95  33 eP    37 45.30    2.8
RSO    10.56  41 eP    37 52.00    1.2
TTA    11.26  26 eP    37 59.40   -0.7
ANM    11.38   3 eP    38 01.90    0.3
SLKM   11.62  45 eP    38 03.50   -1.3
PMR    12.65  42 eP    38 19.50    1.2
TOA    14.12  43 eP    38 34.20   -3.4X
IMA    14.43  22 eP    38 47.60    5.9X
```

```
        1.1s    24.90nm          4.4mb
FBA    15.16   32 eP    38 50.60  -0.3
BALM   15.34   50 eP    38 53.00  -0.3
INK    21.77   33 eP    40 04.00  -2.3
MBC    29.17   21 eP    41 15.00  -0.4
NEW    31.32   79 eP    41 34.50  -0.3
        1.0s    16.00nm          4.7mb
LBFM   32.20   93 eP    41 43.00   0.3
CMB    35.18   97 eP    42 14.00   5.8X
        1.0s     5.83nm          4.5mb
KVN    35.90   93 eP    42 14.50   0.1
BONR   36.48   95 eP    42 20.00   0.5
TNP    37.05   94 eP    42 24.00  -0.1
        1.0s     4.58nm          4.4mb
BW06   38.74   82 eP    42 37.50  -0.8
        1.0s     3.50nm          4.2mb
PLM    40.46   99 e(P)  42 59.00   6.5X
GOL    43.12   83 eP    43 14.00  -0.3
        1.0s     3.00nm          4.1mb
CN2    44.25  286 eP    43 21.80  -1.2
     Z  24s     0.40um          4.3MszX
ANMO   45.60   89 eP    43 35.00   0.9
        1.3s    26.44nm          5.0mb
ALQ    45.60   89 e(P)  43 30.00  -4.2X
        1.0s     2.50nm          4.0mb
FRB    47.37   37 eP    43 46.00  -1.5
SCH    53.77   45 eP    44 35.00  -1.1
SSE    55.23  277 eP    44 47.00   0.0
        1.2s    17.00nm          5.0mb
WHN    59.68  281 Pd    45 18.50   0.1
WMQ    64.18  309 P     45 50.00   1.6
CD2    65.55  289 eP    45 57.70   0.4
NB2    66.06    1 PKP   45 55.20  -4.9X
        1.1s     1.50nm          3.8mb
HFS    66.97  360 eP    46 03.70  -2.2
        0.4s     1.00nm          4.1mb
GYA    67.22  284 P     46 07.80  -0.3
EKA    70.95   10 P     46 30.00  -0.4
        1.0s     5.20nm          4.4mb
CHG    77.62  285 eP    47 09.50   0.2
CHTO   77.62  285 iP    47 09.10  -0.2
        1.0s    11.25nm          4.7mb
KHC    78.00  360 eP    47 11.90   0.9
ZST    78.88  357 eP    47 16.70   1.0
KBA    80.06  360 iPc   47 23.30   1.0
        1.0s     6.30nm          4.5mb
                 e       47 52.00
QUE    84.69  315 eP    47 47.90   1.4
SKO    84.89  354 iP    47 48.00   0.9
OHR    85.79  354 eP    47 51.80   0.1
WB2    88.75  234 iPc   48 06.20   0.2
        1.0s     4.60nm          4.6mb
WRA    88.75  234 P     48 06.00   0.0
        1.0s     5.40nm          4.7mb
WRA    88.75  234 P     48 17.00  11.0X
        1.0s     3.10nm
HYB    90.06  300 iPc   48 12.60   0.1
        1.0s    40.00nm          5.6mb X
ASPA   92.14  232 iPd   48 23.40   1.7
        1.2s     9.10nm          5.1mb
GBA    93.83  299 Pc    48 28.90  -0.8
        0.9s    13.50nm          5.4mb
BUL   144.87  334 iPKPd 54 48.60  -1.0
SLR   150.28  332 iPKPd 55 01.00   2.9X
PRY   151.63  332 iPKPc 55 10.50  10.4X
        1.0s   150.00nm
      S.D. = 1.1  on  44 of  53 obs.
-------------------------------------
   MAR  24, 1991  11h 58m 33.88± 0.55s
   37.671 N ± 5.9km  118.915 W ± 5.7km
   DEPTH =   5.0km  (geophysicist)
 CALIFORNIA-NEVADA BORDER REGION ( 40)
     MD 3.0 (GM).

BONR    0.56   60 eP    58 44.20  -1.0
CMB     1.22  288 eP    58 56.10  -1.0
TNP     1.40   73 eP    59 00.20  -0.2
KVN     1.52   25 eP    59 02.50   0.6
PKEM    1.87  211 eP    59 07.00   0.2
ARN     2.11  262 eP    59 10.00  -0.3
BCH     2.65  201 eP    59 17.50  -0.7
ORV     2.76  314 eP    59 21.00   1.3
ABL     2.83  185 eP    59 20.40  -0.4
PEC     4.03  159 eP    59 39.00   1.3
      S.D. = 1.0  on  10 of  10 obs.
-------------------------------------
% MAR  24, 1991  12h 13m 54.31± 0.67s
   41.107 N ± 6.8km   28.497 E ± 5.8km
   DEPTH =   10.0km  (geophysicist)
 TURKEY                            (366)

CTT     0.06 309 iPg    13 56.00  -0.6
ISK     0.43  95 ePg    14 03.10   0.1
YLV     0.86 129 ePg    14 11.00   0.1
KCT     0.86 187 ePg    14 10.00  -1.0
BNT     0.87 210 ePg    14 12.00   1.0
DMK     0.90 322 iPg    14 12.00   0.4
                iSg     14 24.00
HRT     0.93 107 ePn    14 12.10   0.0
      S.D. = 0.8  on   7 of   7 obs.
-------------------------------------
?  MAR  24, 1991  12h 15m 16.14± 1.78s
   36.867 N ±18.3km   29.352 E ±10.3km
   DEPTH =   10.0km  (geophysicist)
 TURKEY                            (366)

ELL     0.46 105 iPg    15 25.80   0.2
                iSg     15 31.80
YER     0.90 288 ePn    15 37.10   3.7X
BCK     1.15  59 iPn    15 37.10  -0.6
CIN     1.25 306 eP     15 39.00  -0.3
KHL     1.46   5 ePn    15 43.30   0.7
      S.D. = 1.0  on   4 of   5 obs.
-------------------------------------
*  MAR  24, 1991  12h 44m 30.59± 1.37s
   29.702 S ±15.6km  178.342 W ±13.7km
   DEPTH =   55.2 ± 12.8 km
   5.2mb (  5 obs.)  4.0Msz (  1 obs.)
 KERMADEC ISLANDS                  (178)

RAO     0.58   40 P     44 43.50   0.3
                S       44 53.00
WEL    12.84  284 eP    47 32.00  -0.4
                S       49 29.00
DZM    15.65  296 iPc   48 21.10  12.0X
BRS    25.45  268 iPd   49 48.50  -6.5X
                i       50 06.50
COO    25.73  261 eP    50 01.50   3.9X
RMQ    29.15  268 iPd   50 30.90   2.2
        0.7s    32.00nm          5.1mb
CMS    30.81  258 eP    50 42.00  -1.4
CTA    33.40  278 iPc   51 09.10   3.0X
        0.9s    65.55nm          5.5mb
STK    34.35  256 iPd   51 35.40  21.2X
        0.8s    13.80nm
QIS    38.97  274 eP    51 54.00   0.7
ASPA   42.86  266 iPd   52 25.90   0.7
        0.6s    13.20nm          4.9mb
     Z  20s     0.20um          4.0Msz
W82    43.77  272 iPc   52 32.70   0.1
WRA    43.78  272 P     52 31.00  -1.7
        0.6s    36.30nm          5.3mb
FORR   45.89  254 eP    52 47.50  -1.9
SPA    60.46  180 iPd   54 37.40   0.6
        0.9s    18.18nm          5.2mb
PLM    85.53   48 eP    57 18.00  13.8X
SBB    85.78   46 eP    57 04.00  -1.2
TPC    86.53   47 eP    57 23.00  14.1X
CLC    86.65   45 eP    57 08.00  -1.5
GLA    86.66   49 eP    57 24.00  14.5X
GSC    86.82   46 eP    57 24.00  13.7X
NUR   145.56  340 iPKP  04 02.10  -1.4
        0.6s    20.90nm
UPP   147.97  345 iPKP  04 08.40   1.1
NB2   148.02  351 PKP   04 08.50   1.0
        0.9s     8.00nm
HFS   148.50  348 ePKP  04 09.10   0.9
        0.8s     8.40nm
BCAO  150.22  216 iPKPd 04 14.10   1.8
        0.5s    13.00nm
                ic      04 18.20
EKA   154.15    6 PKP   04 38.00  21.3X
        0.9s     3.00nm
      S.D. = 1.4  on  17 of  27 obs.
-------------------------------------
%  MAR  24, 1991  12h 48m 53.45± 0.85s
   39.153 N ± 7.4km   27.615 E ± 8.6km
   DEPTH =   10.0km  (geophysicist)
 TURKEY                            (366)

IZM     0.80 200 ePg    49 09.00  -0.1
                eSg     49 21.00
DST     0.91  60 ePn    49 11.00   0.2
EZN     1.20 304 ePn    49 16.00   0.2
BNT     1.22  11 ePn    49 16.00  -0.2
KCT     1.23  27 ePn    49 16.40   0.0
      S.D. = 0.2  on   5 of   5 obs.
-------------------------------------
   MAR  24, 1991  13h 01m 48.51± 0.57s
    5.643 N ± 4.1km  126.102 E ± 8.1km
   DEPTH = 134.1 ±  5.4 km
    5.1mb ( 24 obs.)
 MINDANAO, PHILIPPINE ISLANDS      (259)

DAV     1.53 340 iPd    02 17.00  -0.5
CGP     3.12 334 iPc    02 37.80   0.3
                iS      03 17.00
MAP     5.10 336 iPc    03 04.00   0.0
                iS      03 47.00
PLP     5.60 349 ePd    03 09.80  -0.9
                iS      03 26.00
PGP     9.31 327 eP     03 59.00  -1.9
QCP    10.21 331 eP     04 30.00  17.2X
BAG    11.99 334 eP     04 32.00  -4.4X
CVP    12.70 341 eP     04 50.00   4.6X
        0.8s     8.00nm          4.3mb
SZP    13.06 335 eP     04 37.00 -13.1X
PIP    13.69 337 iP     05 01.00   2.7X
QZH    20.50 340 Pc     06 17.50  -0.3
QIZ    20.69 311 P      06 22.00   2.2
     N  13s     0.70um
     E  15s     0.70um
KNA    21.42 173 eP     06 27.00   0.0
        0.7s    82.00nm          5.2mb
IPM    25.00 269 ePd    07 03.10   1.5
        1.0s    83.80nm          5.2mb
SSE    25.74 350 Pd     07 09.00   0.8
        1.6s   190.00nm          5.4mb
                sS      11 44.00
LOE    26.55 298 eP     07 15.50  -0.3
WB2    26.69 163 eP     07 15.10  -1.9
                i       07 24.50
                i       07 40.10
                i       10 37.80
NNT    26.92 287 eP     07 07.00 -12.1X
WHN    27.13 337 eP     07 21.50   0.6
                pP      07 25.50  14kmX
NJ2    27.13 346 Pc     07 21.80   0.9
        1.0s   100.00nm          5.4mb
                pP      07 26.00  15kmX
MBL    27.34 193 iPd    07 22.90   0.0
        0.5s    15.00nm          4.9mb
QIS    29.22 153 iPc    07 38.80  -1.0
        0.6s    31.00nm          5.2mb
CHG    29.53 299 eP     07 43.00   0.3
CHTO   29.53 299 eP     07 43.00   0.4
        0.8s     5.12nm          4.3mb
ASPA   30.11 166 iPc    07 46.70  -0.9
        0.7s    21.70nm          5.0mb
                iPcP    10 46.20
                iS      12 34.00
TIA    31.52 346 eP     08 00.00   0.1
WARB   31.64 179 iPd    08 01.40   0.4
        0.8s    39.00nm          5.2mb
XAN    32.44 333 Pd     08 06.50  -1.4
CD2    32.74 323 P      08 09.80  -0.8
MEKA   32.89 193 eP     08 11.00  -0.9
DL2    33.36 354 P      08 16.00   0.2
        1.4s   260.00nm          5.8mb
TIY    34.27 341 eP     08 21.00  -2.7
     Z  16s     0.48um          4.3MszX
BJI    35.39 347 ePd    08 33.00  -0.1
        1.0s    35.00nm          5.1mb
SNY    36.10 357 iPd    08 39.40   0.4
        1.0s   100.00nm          5.6mb
                pP      08 51.60  45kmX
FORR   36.34 177 eP     08 40.50  -0.6
        0.3s    21.00nm          5.4mb
LZH    36.55 329 eP     08 42.50  -0.6
        1.5s    57.00nm          5.1mb
     Z  28s     0.39um          4.0MszX
                pP      08 56.00  51kmX
BAL    37.15 193 eP     08 48.20   0.2
        0.7s    41.00nm          5.3mb
HHC    37.40 342 P      08 50.60   0.5
BTO    37.68 340 eP     08 51.00  -1.5
KLB    37.87 192 eP     08 54.30   0.2
CN2    38.01 359 P      08 54.70  -0.3
SHL    38.26 305 eP     08 53.00  -4.6X
MUN    38.58 194 iPd    09 00.60   0.6
MDJ    38.94   4 eP     09 03.00   0.2
```

24d 13h

	1.2s	70.00nm		5.3mb		
		sP	09	19.20		
NWAO	39.27	192 eP	09	06.50	0.8	
GTA	41.15	329 iPd	09	21.20	0.0	
	0.8s	10.00nm		4.6mb		
BRS	41.75	143 iPd	09	25.50	-0.7	
ADE	42.10	164 iPc	09	30.20	1.3	
	0.8s	149.25nm		5.7mb		
COO	43.67	147 e(P)	09	41.00	-0.7	
BFD	45.28	161 ePd	09	55.00	0.6	
	0.9s	43.00nm		5.1mb		
HYB	47.90	288 eP	10	16.00	0.7	
DZM	48.15	126 iPc	10	15.90	-1.4	
GBA	48.55	283 Pc	10	18.90	-1.4	
	0.7s	4.10nm		4.3mb		
WMO	50.81	325 P	10	38.00	0.7	
Z	10s	0.40um		4.7MszX		
		eS	17	45.00		
NDI	51.56	302 iPd	10	41.00	-2.1	
QUE	60.61	301 eP	11	47.20	-0.6	
IMA	80.90	24 eP	13	50.20	1.3	
PMR	82.58	29 eP	13	58.30	0.8	
TOA	83.99	28 eP	14	06.40	1.6	
SOD	88.47	338 eP	14	28.00	1.5	
INK	88.62	21 eP	14	27.00	-0.2	
MBC	90.23	13 eP	14	37.00	2.4	
NUR	90.74	331 eP	14	49.00	11.8X	
HFS	96.04	332 eP	15	00.20	-1.4	
	0.4s	0.50nm		4.3mb		
NB2	96.81	334 P	15	04.40	-0.7	
	0.7s	1.80nm		4.6mb		
YKA	98.02	24 eP	15	10.30	-0.2	
	0.6s	0.40nm		4.1mb		
BCAO	106.98	276 ePKPc	20	02.60	1.6	
	0.4s	3.00nm				
KIC	129.51	283 PKP	20	44.80	0.8	
	0.7s	5.50nm				
LKO	129.55	287 PKP	20	44.70	0.5	
TIC	129.71	283 PKP	20	45.16	0.7	
LIC	129.81	283 PKP	20	45.22	0.6	
LNV	147.48	152 ePKP	21	20.50	4.6X	
TACH	147.95	153 ePKPc	21	21.00	4.3X	
PCH	148.17	153 iPKPd	21	22.00	4.8X	
SAN	148.24	153 ePKP	21	22.00	4.8X	
PEL	148.49	152 iPKPc	21	22.50	4.8X	
	0.8s	113.43nm				
CNCB	162.30	130 PKP	21	40.00	3.5X	
LPB	162.37	129 PKP	21	39.00	2.6X	
ZOBO	162.51	128 PKPc	21	39.00	2.3X	
SIV	167.54	146 PKP	21	42.20	1.8X	
S.D. = 1.1		on 63 of 80 obs.				

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* MAR 24, 1991 13h 23m 29.81± 0.62s
38.070 S ± 7.9km 72.959 W ±11.4km
DEPTH = 33.0km (normal)
4.8mb (13 obs.) 3.6Msz (1 obs.)
CENTRAL CHILE (136)

LNV	4.29	17 iPc	24	34.00	-0.5	
TACH	4.70	21 iPc	24	40.20	-0.1	
		iS	25	55.00		
LCCH	4.72	14 eP	24	39.50	-1.0	
PCH	4.86	25 iPc	24	42.30	-0.4	
		iS	26	00.00		
SAN	4.97	23 eP	24	44.00	-0.2	
		i	25	43.50		
		i	26	08.50		
PEL	5.25	21 iPc	24	47.50	-0.6	
		iS	26	03.50		
JACH	5.71	20 iP	24	53.50	-1.2	
		iS	25	56.00		
ZON	7.40	30 eP	25	21.00	2.7	
RTCB	7.40	29 ePd	25	17.50	-0.9	
CFA	7.52	32 ePd	25	14.30	-5.7X	
RTLL	7.67	30 ePc	25	20.00	-2.1	
RTRS	8.40	21 ePc	25	31.00	-1.1	
TCA	9.62	48 eP	25	47.60	-1.5	
ANT	14.48	9 eP	27	01.00	6.7X	
CCH	21.46	18 P	28	20.20	2.4	
ARE	21.56	4 eP	28	20.00	1.1	
CNCB	21.63	13 P	28	21.80	2.0	
LPB	21.88	13 P	28	22.00	-0.1	
		i	28	27.30		
ZOBO	22.13	12 P	28	27.00	2.2	
	1.0s	32.50nm		4.7mb		
Z	22s	0.24um		3,6Msz		
		S	32	38.00		
		LR	35	40.00		
SIV	24.36	29 Pc	28	46.00	0.0	
PPD	24.54	56 eP	28	48.00	0.3	
VAO	26.84	63 eP	29	09.20	0.0	
		e	29	18.40		
BMA	29.04	66 (P)	29	29.00	-0.2	
SOB1	40.71	53 (P)	31	10.00	0.9	
SPA	52.12	180 iPd	32	38.80	0.0	
	0.9s	22.73nm		5.1mb		
		i	32	48.00		
TUL	76.59	341 eP	35	15.70	-2.7X	
	0.8s	11.80nm		5.0mb		
LIC	76.78	71 P	35	21.90	1.9	
TIC	77.06	71 P	35	22.80	1.2	
	0.9s	8.50nm		4.8mb		
KIC	77.08	71 P	35	22.84	1.2	
	0.7s	8.00nm		4.8mb		
FVM	77.37	346 eP	35	22.00	-0.8	
LKO	78.56	68 P	35	30.84	1.0	
	0.9s	14.50nm		5.0mb		
ALQ	79.01	332 eP	35	32.00	-0.1	
	1.0s	7.50nm		4.6mb		
SLR	82.74	117 iPd	35	50.00	-2.1	
GOL	82.91	335 iP	35	51.50	-1.1	
	1.0s	3.00nm		4.3mb		
PV09	83.15	332 eP	35	54.10	0.2	
TNP	86.05	326 iP	36	09.50	1.1	
	1.0s	2.75nm		4.4mb		
RSSD	86.51	338 iP	36	10.00	-0.5	
	1.0s	7.05nm		4.8mb		
BW06	87.07	334 eP	36	13.00	-0.3	
	1.0s	3.00nm		4.5mb		
BCAO	93.88	87 ePd	36	48.90	3.4X	
	0.4s	3.00nm		5.1mb		
YKA	105.66	341 ePdiff	37	36.70	-0.7	
	0.5s	0.10nm		4.1mb		
GBA	144.17	125 PKPc	43	01.60	-2.6	
	0.6s	6.20nm				
POO	145.15	115 ePKP	43	02.00	-3.9X	
HYB	147.67	122 ePKP	43	13.00	3.0X	
S.D. = 1.3		on 37 of 43 obs.				

? MAR 24, 1991 14h 19m 57.96± 8.93s
39.605 N ±22.9km 25.258 E ±73.3km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

EZN	0.85	75 iPg	20	14.80	0.4	
		iSg	20	24.30		
IZM	1.97	127 ePn	20	32.10	0.3	
EDC	2.13	69 ePn	20	35.00	0.9	
BNT	2.18	69 ePn	20	34.00	-0.8	
DST	2.60	89 ePn	20	40.00	-0.9	
YLV	3.30	72 ePn	20	56.00	5.2X	
S.D. = 1.1		on 5 of 6 obs.				

MAR 24, 1991 14h 33m 29.29± 0.57s
50.273 N ± 5.7km 12.141 E ± 5.2km
DEPTH = 10.0km (geophysicist)
GERMANY (543)
ML 3.1 (LDG), 3.0 (FUR).

HOF	0.17	284 iPgc	33	34.70	1.5	
		iSg	33	37.80		
MOX	0.50	318 iPg	33	40.50	1.0	
		iSg	33	47.80		
GRF	0.83	226 iPgc	33	46.60	1.2	
		iSg	33	58.20		
CLL	1.17	27 iPn	33	50.30	-0.9	
		iPg	33	51.00		
		iSg	34	06.00		
WET	1.23	157 ePg	33	52.30	0.2	
BRG	1.30	62 iPg	33	52.80	-0.5	
		i	33	57.20		
		iSg	34	08.40		
		iSg	36	33.00		
KHC	1.48	140 iPg	33	56.60	0.7	
		iSg	34	16.00		
		e	01	14.50		
		Sg	01	32.20		
PRU	1.57	100 Pn	33	57.80	0.5	
	0.5s	39.70nm				
		i	34	02.00		
		Sg	34	17.30		
		e	34	18.50		
FUR	2.18	195 iPgc	34	12.70	6.5X	
TNS	2.37	270 ePnd	34	14.90	6.0X	
		eSn	34	44.40		
BHG	2.60	169 eP	34	20.10	B.0X	
KSP	2.71	76 iP	34	20.00	6.3X	
		iS	34	53.00		
KBA	3.30	166 iPnc	34	22.60	0.5	
		i	34	27.90		
		i	35	03.20		
		i(Sg)	35	13.30		
CDF	3.69	242 Pn	34	26.60	-1.0	
		Pg	34	40.80		
		Sg	35	27.00		
FVI	3.71	173 P	34	28.00	0.2	
		eSn	35	26.50		
CTI	4.24	185 P	34	49.00	13.5X	
		eSn	35	45.00		
BSF	4.28	237 Pn	34	33.80	-2.3	
		Pg	34	48.40		
		Sg	35	44.40		
HAU	4.43	241 Pn	34	37.00	-1.0	
		Pg	34	53.60		
		Sg	35	50.80		
AVF	6.80	243 Pn	35	08.20	-3.2X	
S.D. = 1.2		on 13 of 19 obs.				

% MAR 24, 1991 14h 58m 59.32± 0.59s
40.555 N ± 6.3km 28.940 E ± 4.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YLV	0.33	88 iPg	59	06.80	0.6	
ISK	0.52	10 ePg	59	08.50	-1.3	
HRT	0.61	64 iPg	59	11.50	-0.2	
CTT	0.71	327 ePg	59	14.00	0.7	
BNT	0.80	256 ePg	59	15.00	0.1	
EDC	0.85	256 ePg	59	14.00	-1.7	
EYL	0.93	89 iPg	59	17.00	-0.1	
DST	0.98	194 ePn	59	18.10	0.2	
KGT	1.25	266 ePn	59	23.20	0.6	
DMK	1.55	325 iPn	59	28.10	1.1	
S.D. = 1.0		on 10 of 10 obs.				

MAR 24, 1991 15h 00m 47.09± 0.82s
50.348 N ± 9.2km 12.156 E ± 6.5km
DEPTH = 10.0km (geophysicist)
GERMANY (543)
ML 1.9 (GRF), 1.8 (FUR)

HOF	0.18	259 iPgd	00	51.30	0.1	
		iSg	00	54.40		
MOX	0.46	311 iPg	00	57.20	0.8	
		iSg	01	04.40		
GRF	0.89	223 iPgc	01	03.30	-0.9	
		iSg	01	14.70		
CLL	1.10	29 iPn	01	06.90	-0.9	
		iPg	01	07.60		
		iSg	01	22.60		
BRG	1.26	65 iPg	01	09.90	-0.5	
		i	01	13.80		
		iSg	01	25.50		
PRU	1.58	102 ePn	01	16.50	1.4	
		ePg	01	18.60		
		Sg	01	35.00		
S.D. = 1.2		on 6 of 6 obs.				

MAR 24, 1991 15h 14m 16.26± 0.59s
42.920 N ± 4.6km 12.834 E ± 6.0km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ASS	0.20	320 P	14	20.70	0.1	
		eSg	14	23.60		
CIO	0.36	39 iPg	14	23.95	0.3	
		iSg	14	28.78		
MNS	0.55	192 P	14	27.50	0.2	
		eSg	14	35.00		
ALP	0.56	104 iPg	14	27.78	0.0	
		iSg	14	35.86		
ARV	0.58	8 P	14	27.80	-0.3	
		eSg	14	37.80		
AQU	0.70	143 P	14	30.00	-0.2	
CRE	0.96	318 P	14	34.50	0.0	
S.D. = 0.3		on 7 of 7 obs.				

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* MAR 24, 1991 15h 14m 30.75± 1.04s
43.852 N ±10.8km 16.773 E ±10.3km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)

MD 3.2 (TRI).

BLY	0.94	18	Pn	14 47.10	-1.6
			Sn	15 01.10	
VBY	1.97	327	e(Pn)	15 04.50	-0.1
			iSn	15 30.10	
CEY	2.52	319	eP	15 13.10	0.7
			e	15 16.50	
			eSn	15 44.00	
LJU	2.71	325	eP	15 20.50	5.4X
			e(Sn)	15 51.00	
DUI	2.78	219	P	15 08.00	-8.1X
ARV	2.80	264	P	15 14.50	-2.0
TRI	2.83	312	ePn	15 19.90	3.0X
			iSg	15 56.00	
VOY	2.99	318	ePn	15 18.50	-0.6
			eSn	15 54.90	
FVI	3.93	316	P	15 34.00	1.6
			eSn	16 21.00	
KBA	4.03	324	e(Pn)	15 35.00	1.1
			e(Sn)	16 19.00	
OHR	4.05	131	ePn	15 34.80	0.7
CTI	4.25	303	P	15 37.20	0.2
			eSn	16 25.10	

S.D. = 1.4 on 9 of 12 obs.

& MAR 24, 1991 15h 37m 39.69s
62.569 N 151.074 W
DEPTH = 81.6km
CENTRAL ALASKA (1)
<AEIC>.

CUT	0.41	113	iP	37 52.92	-0.1
SKT	0.63	200	iP	37 55.04	0.1
			eS	38 06.35	
HUR	0.78	58	iP	37 56.23	-0.3
			eS	38 08.32	
TRF	0.96	22	eP	37 58.69	-0.1
PWA	1.08	148	eP	37 59.70	-0.3
SUA	1.12	172	eP	38 00.47	-0.2
			S	38 17.21	
NCG	1.28	204	eP	38 02.36	-0.3
			eS	38 19.88	
GHO	1.29	127	eP	38 02.74	0.0
			eS	38 20.94	
RND	1.32	49	eP	38 02.55	-0.6
			eS	38 19.87	
PLRM	1.34	136	eP	38 03.28	-0.1
			S	38 21.75	
CRP	1.40	202	eP	38 04.15	-0.2
			eS	38 23.23	
BGL	1.45	206	eP	38 05.20	0.3
SPU	1.47	199	eP	38 04.63	-0.5
			eS	38 25.46	
CKL	1.50	204	eP	38 05.72	0.1
PMS	1.51	151	eP	38 06.16	0.5
MCK	1.52	39	eP	38 05.79	0.0
KNK	1.70	132	eP	38 07.72	-0.4
BWN	1.76	24	eP	38 08.55	-0.4
NKA	1.83	183	eP	38 11.84	1.9
RDT	2.10	198	eP	38 13.71	0.1
NCT	2.20	205	eP	38 15.21	0.2
NEA	2.21	23	eP	38 13.69	-1.3
RDN	2.22	202	eP	38 14.81	-0.4
REF	2.23	201	eP	38 15.19	-0.3
WRH	2.33	34	eP	38 15.55	-1.1
TOA	2.33	99	eP	38 15.70	-1.1
NNL	2.54	183	eP	38 21.46	1.9
GLI	2.54	130	eP	38 18.50	-1.1
CCB	2.55	34	eP	38 18.35	-1.3
SDG	2.56	88	eP	38 19.10	-0.8
PAX	2.61	79	eP	38 20.03	-0.6
HDA	2.61	43	eP	38 19.46	-1.1
RDS	2.61	29	eP	38 19.29	-1.3
VZW	2.63	123	eP	38 19.54	-1.3
KLU	2.66	112	eP	38 19.65	-1.6
MDM	2.71	27	iP	38 21.00	-1.0
KNIM	2.74	143	eP	38 19.87	-2.5
FBA	2.76	30	eP	38 21.35	-1.2
CNPM	3.06	182	eP	38 27.02	0.3

39 obs. associated

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* MAR 24, 1991 15h 41m 06.24± 0.93s
50.329 N ± 9.1km 12.117 E ± 7.5km
DEPTH = 10.0km (geophysicist)
GERMANY (543)
ML 1.7 (FUR).

HOF	0.15	264	iPgd	41 10.20	0.3
			iSg	41 13.30	
MOX	0.45	315	iPg	41 16.00	0.6
			iSg	41 23.00	
GRF	0.86	223	iPgc	41 22.00	-0.8
			iSg	41 33.50	
CLL	1.13	29	iPg	41 26.40	-1.0
			iSg	41 41.20	
BRG	1.29	64	i(P)	41 32.50	2.4X
			iSg	41 44.50	
PRU	1.60	101	eP	41 35.50	0.9
			Sg	41 53.50	

S.D. = 1.2 on 5 of 6 obs.

% MAR 24, 1991 16h 13m 30.57± 1.47s
1.010 S ± 7.0km 78.059 W ±12.2km
DEPTH = 10.0km (geophysicist)
ECUADOR (107)
MD 4.0 (OUI).

VC1	0.51	317	iP+	13 40.70	-0.3
			S	13 47.80	
TUNG	0.56	224	P	13 42.00	-0.2
			S	13 49.60	
QUIL	0.90	286	P	13 48.60	0.4
OTO	0.93	329	P	13 48.60	0.1
OUR	0.96	331	eP	13 48.80	-0.3
			S	14 00.30	
YANA	1.03	330	iP+	13 50.10	-0.2
			S	14 03.60	
CAYA	1.08	4	P	13 51.20	-0.1
COTA	1.36	348	P	13 56.60	0.5
			eS	14 14.50	

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

& MAR 24, 1991 17h 10m 12.85s
59.355 N 152.355 W
DEPTH = 79.3km
2.7mb (1 obs.)
SOUTHERN ALASKA (2)
<AEIC>.

XLV	0.34	73	iPc	10 25.02	-0.4
			eS	10 34.97	
AUI	0.55	268	iPd	10 26.76	-0.4
			eS	10 37.18	
AUH	0.56	271	ePd	10 26.99	-0.3
			eS	10 37.04	
CNPM	0.60	73	iPc	10 27.11	-0.5
			eS	10 38.16	
SYI	0.75	181	iPd	10 28.33	-0.8
			eS	10 40.59	
BRLK	0.85	61	ePc	10 29.57	-0.8
			eS	10 41.67	
NNL	0.87	37	iPd	10 30.76	0.2
MCNL	1.03	261	iPd	10 31.16	-1.4
			iS	10 45.79	
RED	1.09	349	iPd	10 32.47	-0.8
			eS	10 47.93	
RSO	1.13	350	iPd	10 33.17	-0.8
RS2	1.13	350	iPd	10 33.21	-0.7
REF	1.15	351	iPd	10 33.39	-0.8
RDN	1.18	350	iPd	10 33.75	-0.8
			iS	10 50.03	
RDT	1.22	359	iPd	10 33.86	-1.1
			eS	10 50.58	
NCT	1.24	347	iPd	10 34.47	-0.8
			eS	10 51.23	
NKA	1.50	21	iPd	10 39.01	0.5
SLKM	1.58	42	ePd	10 38.05	-1.6
			eS	10 58.12	
SEW	1.65	62	ePc	10 38.95	-1.6
SPU	1.84	5	iPd	10 42.04	-1.1
			eS	11 05.30	
CKL	1.85	0	iPd	10 42.32	-1.0
BGL	1.92	359	iPd	10 43.25	-1.0
			eS	11 07.02	
CRP	1.92	3	ePd	10 43.46	-0.9
NCG	2.06	3	iPd	10 45.19	-1.0
SUA	2.26	20	iPd	10 47.73	-1.3
			eS	11 15.16	
PMS	2.35	35	ePd	10 48.62	-1.5
MTU	2.47	73	ePd	10 49.92	-1.8
KNIM	2.54	65	iPd	10 50.33	-2.3
PWA	2.61	27	eP	10 52.13	-1.5
SKT	2.67	8	iPd	10 52.76	-1.7
			eS	11 24.53	
PLRM	2.75	34	iPd	10 53.31	-2.3
GHO	2.96	33	ePd	10 56.23	-2.3
GLI	3.05	58	ePc	10 56.61	-3.1
HIN	3.13	68	ePc	10 58.57	-2.3
CUT	3.23	18	eP	11 00.19	-2.0
VLZ	3.49	57	eP	11 03.50	-2.3
			eS	11 41.93	
CVA	3.53	67	iPc	11 03.81	-2.6
SGAM	3.78	69	ePd	11 07.12	-2.7
HUR	3.87	19	eP	11 09.33	-1.8
RAGM	4.01	72	eP	11 10.51	-2.6
TOA	4.10	45	eP	11 12.27	-2.2
HMT	4.20	73	eP	11 13.26	-2.6
RND	4.40	21	ePd	11 16.08	-2.6
SDG	4.60	43	eP	11 19.16	-2.3
GLB	4.73	60	iPc	11 20.31	-2.9
WAX	4.91	73	eP	11 22.60	-3.2
PAX	4.93	40	eP	11 22.88	-3.1
TGL	4.98	70	ePc	11 23.62	-3.1
BWN	5.02	15	eP	11 25.05	-2.3
BALM	5.27	67	iPc	11 27.67	-3.2
WRG	5.27	78	eP	11 29.24	-1.6
DDM	5.42	32	eP	11 31.29	-1.6
NEA	5.46	15	eP	11 29.34	-4.1
HDA	5.67	24	eP	11 32.93	-3.4
CCB	5.73	20	ePc	11 33.78	-3.3
CTGM	5.74	69	eP	11 34.40	-3.0
RDS	5.84	18	eP	11 35.17	-3.4
MDM	5.95	17	eP	11 36.75	-3.4
GLM	6.11	20	ePd	11 38.90	-3.6
INK	12.17	35	eP	13 01.00	-3.6
YKA	18.43	64	eP	14 20.20	-3.8

0.4s 0.20nm 2.7mb
60 obs. associated

MAR 24, 1991 17h 39m 42.04± 0.94s
31.040 S ± 6.8km 68.464 W ± 8.4km
DEPTH = 10.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.29	181	iPd	39 49.10	1.0
RTCB	0.53	213	iPc	39 51.90	-0.9
ZON	0.54	200	eP	39 53.00	0.1
			eS	40 00.00	
CFA	0.60	161	ePc	39 54.00	-0.1
			eS	40 01.90	
RTRS	1.22	315	iPd	40 05.00	0.3
			eS	40 21.70	
TCA	3.33	96	ePc	40 35.00	-0.3

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

MAR 24, 1991 18h 15m 15.05± 0.87s
38.304 N ± 7.9km 21.773 E ± 8.4km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 3.2 (ATH).

AGG	0.84	31	ePd	15 29.30	-2.0
			eS	15 42.00	
VLS	0.94	263	ePg	15 31.00	-2.0
ATH	1.57	102	ePb	15 43.00	0.0
VLI	1.83	149	ePn	15 48.00	1.2
KZN	2.00	360	ePn	15 50.00	0.7
KEK	2.08	313	ePb	15 50.80	0.3
FNA	2.50	353	ePd	15 57.60	1.2
			eS	16 34.00	
THE	2.50	21	ePd	15 55.60	-0.8
SOH	2.80	25	ePd	15 59.80	-0.9
			eS	16 36.00	
OHR	2.90	345	iPn	16 04.10	1.9
KNT	2.98	17	ePd	16 02.60	-0.7
VAY	3.08	11	ePn	16 07.30	2.8X
SKO	3.67	356	ePn	16 14.00	0.9

S.D. = 1.4 on 12 of 13 obs.

MAR 24, 1991 19h 30m 56.40± 0.60s
37.723 N ± 7.5km 118.900 W ± 6.4km
DEPTH = 5.0km (geophysicist)
CALIFORNIA-NEVADA BORDER REGION (40)
MD 3.1 (GM). Felt (III) at June Lake, California.

BONR	0.53	64	eP	31 07.00	0.0
FRI	0.97	222	ePc	31 14.10	-1.2
			eS	31 25.10	
CMB	1.22	285	eP	31 19.60	0.1
			eS	31 34.80	

24d 19h

TNP 1.38 74 eP 31 22.50 0.0
KVN 1.47 25 eP 31 24.50 0.8
PKEM 1.92 211 eP 31 30.00 -0.1
LLA 1.97 237 ePc 31 31.30 0.5
PRI 2.12 222 ePc 31 34.30 1.2
ARN 2.13 261 eP 31 32.90 -0.2
SAO 2.24 246 eP 31 36.30 1.5
PRS 2.42 236 eP 31 38.20 1.0
BCH 2.71 201 eP 31 39.70 -1.8
ORV 2.74 313 eP 31 40.00 -1.8
S.D. = 1.2 on 13 of 13 obs.

? MAR 24, 1991 20h 19m 45.95± 1.07s
50.265 N ± 9.2km 12.008 E ± 9.3km
DEPTH = 10.0km (geophysicist)
GERMANY (543)
ML 1.5 (FUR).

HOF 0.10 300 iPgd 19 49.00 0.3
iSg 19 52.30
MOX 0.46 327 ePg 19 55.00 -0.2
iSg 20 02.00
GRF 0.77 222 ePgd 20 00.80 -0.1
eSg 20 12.20
CLL 1.22 31 iPg 20 05.10 -3.6X
iSg 20 19.70
BRG 1.38 63 i(P) 20 11.20 0.0
iSg 20 23.00
S.D. = 0.4 on 4 of 5 obs.

& MAR 24, 1991 20h 43m 59.35s
57.746 N 143.068 W
DEPTH = 10.0km (geophysicist)
2.7mb (1 obs.)
GULF OF ALASKA (15)
<AEIC>.

MID 2.40 316 eP 44 34.16 -5.1
eS 45 03.36
YKU 2.52 43 eP 44 35.60 -5.3
TGL 3.02 2 eP 44 42.67 -5.5
S 45 16.48
MTU 3.27 315 eP 44 45.99 -5.7
S 45 22.93
BALM 3.32 6 eP 44 46.98 -5.5
S 45 24.06
CTGM 3.35 15 eP 44 47.33 -5.6
S 45 24.28
KNIM 3.55 319 eP 44 49.26 -6.4
eS 45 28.59
GLB 3.73 355 eP 44 52.30 -5.9
eS 45 33.24
VZW 3.77 333 eP 44 52.80 -6.0
KLU 4.03 340 eP 44 55.89 -6.6
SEW 4.07 308 eP 44 57.57 -5.3
KNK 4.58 326 eP 45 04.93 -5.4
CNPM 4.63 296 eP 45 05.24 -5.7
PMS 4.82 319 eP 45 07.93 -5.8
NNL 4.85 302 eP 45 09.42 -4.6
PLRM 4.93 324 eP 45 09.42 -5.8
GHO 5.01 326 eP 45 10.53 -5.8
RDT 5.58 304 eP 45 18.61 -5.8
REF 5.67 303 eP 45 20.28 -5.6
RED 5.68 302 eP 45 19.75 -6.1
RSO 5.68 303 eP 45 20.43 -5.6
RS2 5.69 303 eP 45 20.65 -5.4
RDN 5.71 303 eP 45 20.39 -6.0
SPU 5.73 311 eP 45 20.27 -6.3
NCT 5.81 303 eP 45 22.01 -5.6
CRP 5.82 311 eP 45 22.43 -5.4
CKL 5.85 310 eP 45 22.17 -6.2
NCG 5.90 312 eP 45 23.14 -5.8
BGL 5.91 311 eP 45 23.60 -5.5
SKT 6.01 318 eP 45 24.37 -6.1
YKA 14.88 59 eP 47 41.00 9.7
0.4s 0.10nm 2.7mb
31 obs. associated

MAR 24, 1991 21h 49m 56.00± 1.12s
36.352 N ± 6.8km 71.558 E ± 6.2km
DEPTH = 121.8 ± 12.7 km
4.6mb (19 obs.)
AFGHANISTAN-USSR BORDER REGION (717)

KSH 4.67 47 eP 51 07.50 1.8
S 51 59.00
QUE 7.26 213 eP 51 40.30 -0.7
eS 52 59.50
NDI 9.01 146 iPd 52 02.50 -2.1
iS 53 38.00
WMO 14.42 54 eP 53 14.00 -1.5
LSA 17.70 106 eP 53 56.60 -0.1
HYB 19.85 160 eP 54 20.90 1.2
TAB 20.16 282 eP 54 29.00 6.2X
SHL 20.44 116 iP 54 26.50 0.8
eS 58 02.80
GTA 22.47 74 iPc 54 48.00 2.2
1.0s 20.00nm 4.4mb
pP 55 12.00 116kmX
GBA 23.26 165 Pc 54 54.90 1.6
0.8s 4.60nm 3.9mb
TIY 32.48 75 eP 56 15.00 -1.8
VRI 34.69 300 eP 56 37.60 1.9
MLR 35.25 299 eP 56 17.00 -23.5X
KAF 37.99 327 iP 57 03.20 0.0
0.2s 0.50nm 4.0mb
NUR 38.21 324 iP 57 04.60 -0.4
0.3s 4.70nm 4.8mb
SPC 39.06 306 eP 57 12.60 0.1
KRA 39.26 307 iPd 57 14.70 0.8
0.9s 22.00nm 4.9mb
SRO 40.40 304 iP 57 24.80 1.5
ZST 41.18 304 eP 57 30.30 0.6
PRU 42.74 307 P 57 43.40 1.0
1.5s 11.20nm 4.4mb
BRG 43.07 308 iP 57 45.80 0.8
1.0s 20.00nm 4.8mb
KHC 43.44 306 eP 57 48.70 0.6
HFS 43.46 322 eP 57 47.20 -0.9
0.5s 12.90nm 4.9mb
CLL 43.63 309 iPd 57 49.70 0.1
1.7s 20.00nm 4.6mb
NB2 44.77 323 P 57 57.70 -1.0
0.6s 8.30nm 4.7mb
BSF 48.09 305 eP 58 24.20 -0.8
0.9s 9.85nm 4.6mb
LPG 48.61 302 eP 58 28.90 -0.3
0.9s 4.10nm 4.2mb
LPL 48.62 302 eP 58 28.90 -0.3
SMF 50.31 304 eP 58 41.10 -0.8
0.9s 8.20nm 4.6mb
AVF 50.60 304 eP 58 43.30 -0.8
0.7s 4.40nm 4.5mb
MAF 51.27 304 eP 58 48.90 -0.3
1.0s 10.00nm 4.7mb
EKA 52.71 316 Pd 58 58.80 -0.9
1.1s 10.90nm 4.7mb
DAG 55.03 344 eP 59 16.00 -0.5
BCAO 58.03 250 iPd 59 38.50 0.0
0.7s 6.00nm 4.7mb
ic 00 20.20
MBC 67.46 3 eP 00 40.00 0.0
1.0s 8.00nm 4.6mb
INK 73.98 9 ePd 01 19.20 0.0
YKA 81.37 3 eP 01 58.40 -1.4
0.8s 2.40nm 4.0mb
WB2 81.54 122 iPd 02 01.20 -0.2
S.D. = 1.1 on 36 of 38 obs.

? MAR 24, 1991 23h 18m 08.48±11.26s
39.805 N ±70.0km 23.786 E ±46.2km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)
MD 2.4 (THE).

PAIG 0.15 326 ePd 18 11.38 -0.5
e$ 18 13.66
THE 1.04 323 ePd 18 27.98 -0.1
e$ 18 43.46
SOH 1.07 342 iPc 18 29.00 0.4
i$ 18 43.00
SRS 1.32 354 ePd 18 32.74 -0.1
i$ 18 52.98
KNT 1.52 334 ePc 18 36.06 0.4
i$ 18 58.50
GRG 1.56 318 ePc 18 37.70 1.3X
e$ 18 57.22
S.D. = 0.5 on 5 of 6 obs.

• MAR 24, 1991 23h 37m 39.22± 0.76s
33.926 N ± 9.0km 141.623 E ±15.2km
DEPTH = 33.0km (normal)
4.5mb (6 obs.)
OFF EAST COAST OF HONSHU, JAPAN (229)

MAT 3.82 314 iPd 38 39.20 2.0
iS 39 24.10
YAMJ 4.43 344 P 38 45.90 0.1
eS 39 34.00
OFUJ 5.14 0 P 38 54.40 -1.5
eS 39 49.10
SSE 17.47 266 e(P) 41 40.00 -1.8
Z 14s 0.40um
N 14s 0.40um
e(S) 45 26.00
WB2 54.01 188 eP 47 03.00 0.5
WRA 54.02 188 P 47 01.00 -1.5
0.5s 2.20nm 4.4mb
INK 57.08 26 eP 47 23.00 -1.2
ASPA 57.74 188 eP 47 31.30 2.0
0.8s 3.80nm 4.5mb
HYB 58.35 270 eP 47 33.50 -0.3
GBA 61.19 267 Pc 47 52.20 -1.1
1.1s 14.20nm 5.0mb
KAF 71.15 333 eP 48 56.50 0.4
0.5s 2.90nm 4.6mb
NUR 72.77 333 eP 49 06.70 0.9
HFS 76.99 336 eP 49 30.50 0.6
0.4s 0.70nm 4.0mb
NB2 77.12 338 P 49 31.40 0.7
0.9s 2.50nm 4.2mb
CLL 83.87 330 e(P) 50 07.00 0.3
ZOBO 148.00 64 PKP 57 28.00 7.2X
LPB 148.18 64 ePKP 57 30.00 9.1X
CNCB 148.44 65 PKP 57 28.00 6.5X
S.D. = 1.3 on 15 of 18 obs.

? MAR 24, 1991 23h 50m 19.48± 1.76s
12.128 N ±15.4km 121.375 E ±20.9km
DEPTH = 80.1 ± 15.1 km
4.1mb (2 obs.)
MINDORO, PHILIPPINE ISLANDS (250)

PGP 1.43 343 iPc 50 44.20 0.0
iS 51 02.00
PPR 3.49 228 iPc 51 34.50 21.9X
iS 52 21.00
SZP 5.46 351 ePd 51 31.00 -9.1X
eS 52 16.00
CVP 5.56 4 eP 51 30.60 -10.8X
0.5s 7.00nm
PIP 6.20 353 iPd 51 36.00 -14.4X
WB2 34.34 158 eP 57 00.60 0.0
i 57 23.10
ASPA 37.63 161 eP 57 51.70 23.3X
0.8s 4.30nm
GBA 42.82 277 Pd 58 11.40 0.0
0.7s 3.20nm 4.3mb
TAB 70.89 306 eP 01 51.00 20.7X
INK 84.32 21 eP 02 43.50 0.0
MBC 84.94 12 eP 02 46.00 -0.5
YKA 93.97 23 eP 03 29.80 0.4
0.6s 0.40nm 4.0mb
S.D. = 0.4 on 6 of 12 obs.

? MAR 25, 1991 00h 15m 43.33± 3.56s
23.704 N ±12.8km 122.265 E ±31.2km
DEPTH = 10.0km (geophysicist)
TAIWAN REGION (243)

TWD 0.72 302 ePc 15 56.90 -0.5
eS 16 10.70
TWF1 0.96 249 iPc 16 02.30 0.8
eS 16 18.10
TWC 0.98 337 iPd 15 59.10 -2.8X
eS 16 14.40
TWG 1.41 232 ePc 16 08.40 -0.6
ANP 1.62 335 eP 16 12.50 0.4
S.D. = 1.2 on 4 of 5 obs.

MAR 25, 1991 00h 20m 31.59± 0.58s
19.111 S ± 4.1km 176.806 W ± 5.1km
DEPTH = 336.0 ± 5.1 km
5.1mb (30 obs.)
FIJI ISLANDS REGION (181)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 25C
Centroid Location:
Origin Time 00:20:39.6 1.4
Lat 18.58S 0.14 Lon 176.75W 0.09
Dep 336.0 4.4 Half-duration 1.6

Moment Tensor; Scale 10**16 Nm
Mrr= 5.33 0.56 Mtt=-8.60 0.95
Mff= 3.28 1.01 Mrt= 2.82 0.79
Mrf= 3.94 0.76 Mtf= 0.22 0.77
Principal Axes:
T Val= 8.70 Plg=53 Azm=283
N 0.48 35 79
P -9.18 12 177
Best Double Couple:Mo=8.9*10**16
NP1:Strike=303 Dip=45 Slip= 143
NP2: 61 65 51

KRO	4.03	296	iPc	21	44.40	3.8X
OVA	4.42	288	eP	21	44.80	0.0
NDE	4.46	304	eP	21	44.80	-0.5
SVA	4.60	282	iPc	21	47.60	0.9
			eS	22	49.80	
VUN	4.62	283	iPc	21	47.40	0.5
MBU	4.76	296	eP	21	48.30	-0.2
SGE	5.23	286	ePc	21	54.70	0.9
PVC	14.19	273	iPc	23	41.50	0.8
BKM	14.26	273	iPc	23	42.70	1.1
DZM	15.96	256	iPc	24	00.30	0.5
PUZ	19.38	192	eP	24	35.00	0.5
WLZ	19.81	198	eP	24	41.00	2.3X
NOZ	19.95	192	eP	24	39.20	-0.8
PGZ	22.24	194	eP	25	01.10	-1.1
MNG	22.43	196	eP	25	02.30	-1.7
			eS	28	52.60	
KIW	22.81	196	eP	25	06.20	-1.3
MRW	23.21	196	eP	25	10.40	-0.8
MOW	23.25	195	eP	25	10.90	-0.7
TCW	23.31	197	eP	25	10.60	-1.5
THZ	24.22	199	eP	25	20.90	0.4
HNR	24.47	290	eP	25	21.00	-1.9
KHZ	24.63	197	eP	25	23.90	-0.3
SVO	24.71	290	P	25	25.00	-0.1
LTZ	25.34	199	eP	25	28.00	-2.7X
BRS	29.08	248	iPd	26	05.00	0.9
COO	30.51	242	iPc	26	18.00	1.4
CNB	33.94	235	iPc	26	48.00	2.0
	0.5s	140.00nm			5.6mb	
CTA	34.77	262	iPc	26	52.80	-0.2
	0.8s	274.63nm			5.7mb	
PMG	36.17	280	iPc	27	03.60	-1.2
	0.8s	238.81nm			5.6mb	
OLP	36.56	251	iPd	27	09.40	1.5
TAU	38.40	224	iPd	27	24.20	1.3
BFD	39.75	234	ePd	27	35.30	1.2
OIS	40.94	260	iPc	27	42.90	-1.2
	0.2s	5.00nm			4.4mb	
			i	28	06.00	
			i	28	29.30	
ADE	42.29	239	iPc	27	55.80	0.9
	0.9s	168.07nm			5.3mb	
WB2	45.91	260	iPd	28	22.40	-1.3
	0.8s	110.00nm			5.2mb	
			iS	34	44.20	
ASPA	45.95	255	iPc	28	23.90	-0.1
	0.8s	674.70nm			6.0mb	
			iS	34	40.10	
GUA	49.75	308	eP	28	52.80	-0.2
	0.8s	197.01nm			5.5mb	
PJG	49.81	308	eP	28	52.40	-1.1
MTN	50.29	269	eP	28	56.00	-1.2
	0.3s	135.00nm			5.8mb	
FORR	50.85	245	iPc	29	00.70	-0.4
WARB	52.33	251	iPc	29	11.80	-0.4
	0.9s	545.00nm			5.9mb	
COOL	56.82	245	eP	29	43.20	-1.1
KUG	58.13	270	eP	30	11.50	18.0X
	0.7s	276.40nm				
MBL	59.17	256	iPc	29	59.80	-0.7
SBA	59.33	184	iPc	30	04.60	3.9X
MEKA	59.52	250	iPc	30	01.90	-0.9
	0.4s	36.00nm			5.2mb	
KLB	59.66	244	iPc	30	03.00	-0.7
	0.4s	32.00nm			5.2mb	
NWAO	60.00	242	iPc	30	05.50	-0.5
MUN	60.94	243	iPd	30	11.70	-0.6
CGP	63.82	290	iPd	30	32.50	1.3
	1.0s	6.00nm			4.2mb	
PLP	64.78	293	eP	30	36.00	-1.3
MAP	65.27	291	eP	30	27.00	-13.5X
TRT	69.19	269	ePc	31	07.30	2.4X
MAT	69.78	323	eP	31	06.00	-2.0
	0.7s	12.33nm			4.7mb	

ADK	70.69	0	P	31	10.60	-2.4X
	0.5s	24.79nm			5.2mb	
SPA	71.01	180	iPc	31	17.00	1.9
	0.6s	58.13nm			5.5mb	
PIP	71.82	297	iPd	31	19.50	-0.9
QZH	76.60	303	eP	31	46.70	-0.7
PLM	77.39	48	P	31	52.10	0.2
PEC	77.48	47	P	31	52.50	0.4
CMB	77.68	42	eP	31	55.80	2.6X
WDC	77.89	39	eP	31	56.60	2.4X
TNP	79.76	44	P	32	04.60	0.1
	0.7s	5.56nm			4.5mb	
NJ2	79.87	309	Pd	32	05.80	0.9
MDJ	80.04	324	Pc	32	05.00	-0.5
	1.0s	40.00nm			5.2mb	
SVW	81.74	10	P	32	12.60	-1.5
SNY	81.88	319	eP	32	14.00	-1.1
WHN	82.54	306	Pd	32	19.50	0.8
PMR	83.42	13	P	32	21.20	-1.2
	0.8s	13.79nm			4.8mb	
BALM	84.54	16	P	32	27.40	-0.9
PNT	84.88	34	ePc	32	30.00	-0.1
	0.7s	10.00nm			4.8mb	
PSI	85.46	274	ePd	32	35.50	1.8
NEW	85.60	35	P	32	31.50	-2.1
	1.0s	8.50nm			4.6mb	
ALQ	85.66	51	eP	32	34.80	0.3
	1.2s	10.55nm			4.6mb	
ANMO	85.66	51	P	32	34.90	0.4
	1.0s	7.50nm			4.5mb	
BJI	85.70	315	eP	32	33.50	-0.8
	1.1s	31.00nm			5.1mb	
FBA	86.65	12	P	32	36.70	-1.6
	0.8s	27.59nm			5.2mb	
GYA	86.95	299	iPc	32	41.00	0.3
BW06	87.19	43	P	32	41.00	-0.7
TIY	87.20	311	P	32	41.40	-0.2
SXM	87.84	39	eP	32	45.80	1.1
XAN	88.19	307	P	32	46.60	0.2
HHC	89.20	314	P	32	51.00	0.0
SES	90.09	36	eP	32	55.00	0.2
			pP	33	06.00	35kmX
BDT	90.25	288	eP	32	56.20	0.1
	1.0s	41.40nm			5.3mb	
CHTO	90.84	290	iP	33	00.00	1.2
	1.0s	23.75nm			5.1mb	
CD2	90.99	302	P	33	00.80	1.4
RSSD	91.38	43	P	33	00.60	-0.5
	1.3s	27.45nm			5.1mb	
MEO	91.49	54	eP	33	02.50	0.9
INK	92.65	15	eP	33	05.00	-1.1
LZH	92.82	307	Pc	33	08.80	0.9
	1.5s	42.00nm			5.2mb	
YKA	94.79	24	eP	33	17.50	1.4
	0.6s	2.10nm			4.4mb	
MBC	101.20	12	ePdiff	33	45.00	0.3
KKN	105.44	294	PKP	38	00.00	-17.0X
DAG	121.24	6	ePKP	38	44.00	-1.3
	0.3s	16.88nm				
QUE	121.66	294	ePKP	38	48.30	0.5
PDCR	127.78	124	ePKP	38	59.00	-0.7
SOB1	128.23	119	ePKP	39	00.90	0.2
SOD	129.48	348	iPKP	39	01.10	-0.3
KAF	134.12	345	iPKP	39	09.20	-1.2
	0.5s	11.60nm				
NUR	135.91	345	ePKP	39	12.20	-1.6
	0.5s	11.60nm				
NB2	137.73	354	PKP	39	09.20	-8.1X
	0.8s	4.20nm				
HFS	138.34	352	ePKP	39	05.60	-12.8X
	0.7s	6.30nm				
EKA	143.52	6	PKP	39	24.00	-3.7X
	0.9s	8.70nm				
KVT	144.44	315	ePKP	39	29.20	-0.6
VAL	145.58	15	iPKP	39	32.50	1.3
ETA	145.69	10	ePKP	39	32.10	0.7
KAS	145.79	317	iPKPd	39	34.20	2.1
BRN	145.85	349	ePKP	39	33.50	1.9
ECB	145.91	11	ePKP	39	32.60	0.8
	0.9s	59.00nm				
ECP	146.16	11	ePKP	39	33.40	1.2
	1.0s	114.00nm				
WIT	146.26	356	ePKP	39	29.00	-3.3X
			e	39	35.00	
KRA	146.35	340	ePKP	39	33.20	0.6
			i	39	34.30	
			i	39	37.10	

SHBJ	146.51	300	PKPc	39	35.54	2.0
KSP	146.67	345	ePKP	39	33.00	-0.1
	1.0s	106.00nm				
			ic	39	35.50	
CLL	146.95	349	iPKP	39	33.20	-0.3
	1.5s	27.00nm				
SPC	147.00	339	ePKP	39	33.80	-0.1
WTS	147.06	356	ePKP	39	33.50	-0.1
	0.7s	100.00nm				
			ic	39	36.80	
BRG	147.18	347	iPKP	39	34.10	0.2
BBTK	147.23	315	iPKPd	39	34.00	-0.5
CSTJ	147.54	298	PKPc	39	38.14	3.0X
BHL	147.59	304	PKP	39	38.00	2.8X
MLR	147.64	329	ePKP	39	22.00	-13.0X
HRI	147.72	302	ePKPc	39	42.00	6.5X
PSN	147.75	325	iPKPc	39	39.00	4.0X
MDSJ	147.76	299	PKP	39	30.50	-5.1X
MOX	147.83	350	iPKP	39	35.00	0.0
JARJ	147.85	300	PKPc	39	38.71	3.0X
PRU	147.88	346	ePKP	39	34.70	-0.3
	1.0s	47.70nm				
			i	39	38.60	
			e	39	41.90	
			e	40	59.00	
QTRJ	148.05	299	PKPc	39	39.34	3.3X
BNS	148.06	355	iPKPc	39	39.00	3.7X
	0.8s	139.00nm				
HOF	148.11	349	ePKP	39	35.50	0.1
			i	39	39.10	
SALJ	148.13	300	PKP	39	39.60	3.5X
KFNJ	148.18	300	PKP	39	32.20	-3.8X
MASJ	148.18	300	PKPc	39	39.72	3.5X
ENN	148.34	357	ePKP	39	35.50	-0.2
	0.8s	48.00nm				
			ic	39	39.60	
UCC	148.37	359	PKP	39	39.70	4.0X
MEM	148.49	357	PKP	39	36.70	0.8
EYL	148.52	319	iPKP	39	39.90	3.4X
ZNT	148.60	301	ePKPc	39	44.00	7.3X
SNF	148.66	359	iPKPc	39	40.43	4.2X
TNS	148.68	354	ePKPc	39	40.20	3.8X
GRF	148.82	350	ePKP	39	36.80	0.3
			ic	39	41.40	
			e	39	45.70	
SRO	148.83	340	iPKP	39	40.40	3.8X
			i	39	45.90	
ZST	148.87	342	i(PKP)	39	41.70	5.1X
			i	39	46.50	
BUD	148.89	339	e(PKP)	39	38.00	1.3
KHC	148.90	347	ePKP	39	37.00	0.3
	1.0s	35.50nm				
			e	39	41.70	
			e	39	47.00	
YLV	149.01	319	ePKP	39	40.90	3.7X
VKA	149.03	343	e(PKP)	39	37.00	0.1
	1.8s	94.00nm				
			i	39	42.40	
			i	40	10.00	
			i	40	23.20	
WET	149.04	348	ePKP	39	37.20	0.3
			i	39	41.50	
DOU	149.07	358	PKPc	39	41.50	4.6X
			e	41	06.00	
ABH	149.10	355	ePKP	39	41.69	4.7X
HOL	149.32	295	iPKPc	39	43.70	5.8X
MBH	149.36	296	ePKP	39	46.50	8.4X
WLF	149.43	356	iPKPc	39	42.80	5.4X
JMB	149.44	325	iPKP	39	42.00	4.3X
BZS	149.48	334	ePKP	39	27.00	-10.6X
BADA	149.51	294	iPKPc	39	44.30	6.1X
PVL	149.58	327	iPKPc	39	43.00	5.2X
UZD	149.81	339	e(PKP)	39	43.00	4.9X
BCK	149.90	313	iPKP	39	43.20	4.6X
DST	150.04	318	ePKP	39	40.00	1.2
FLN	150.27	5	ePKP	39	38.90	0.2
	0.9s	31.10nm				
FUR	150.28	349	iPKPc	39	44.60	5.8X
	0.8s	93.00nm				
BHG	150.39	347	iPKPc	39	44.60	5.6X
	1.2s	62.00nm				
LDF	150.47	4	ePKP	39	39.10	0.1
	0.9s	18.00nm				
BEO	150.60	335	ePKP	39	45.00	5.7X
GRR	150.61	6	ePKP	39	39.50	0.3
	1.0s	28.00nm				
KDZ	150.63	325	iPKPc	39	45.00	5.5X

25d 00h

PGB	150.66	327	iPKPc	39	45.00	5.4X
PLD	150.70	326	iPKPc	39	45.00	5.4X
KBA	150.89	346	ePKP	39	39.50	-0.5
	0.7s	31.40nm				
			i	39	45.50	
			i	39	49.70	
			i	39	57.00	
			e	41	04.00	
			e	41	10.00	
LPF	150.95	6	ePKP	39	40.00	0.3
	1.0s	18.00nm				
RZN	150.98	325	iPKPc	39	46.00	5.7X
HAU	151.06	356	ePKP	39	40.10	0.1
VTS	151.11	328	iPKPc	39	46.00	5.6X
BSF	151.20	355	ePKP	39	40.20	-0.1
EZN	151.31	321	iPKP	39	46.10	5.6X
FVI	151.48	346	PKP	39	46.40	5.9X
LJU	151.55	343	ePKP	39	41.00	0.2
			i	39	47.00	
MMB	151.58	326	iPKPc	39	47.00	6.0X
OGA	151.58	349	ePKP	39	41.50	0.5
			i	39	47.90	
VOY	151.73	344	ePKP	39	41.00	-0.1
			i	39	47.10	
VBY	151.84	342	ePKPd	39	41.80	0.6
			i	39	48.10	
CEY	151.86	343	ePKP	39	41.20	0.0
			e	39	47.90	
LOR	151.91	359	ePKP	39	41.40	0.1
	0.7s	7.70nm				
TRI	152.07	344	ePKPc	39	41.00	-0.5
			i	39	48.00	
			i	39	58.00	
SSF	152.12	360	ePKP	39	41.80	0.3
	0.8s	12.10nm				
LBF	152.19	359	ePKP	39	41.80	0.1
RIY	152.24	343	iPKP	39	48.30	6.6X
CTI	152.24	347	PKP	39	41.00	-0.9
AVF	152.39	360	ePKP	39	41.80	-0.1
	0.7s	2.20nm				
SKO	152.44	330	iPKP	39	41.70	-0.4
			i	39	49.00	
			i	40	01.00	
MFF	152.44	5	ePKP	39	42.30	0.3
	0.9s	8.20nm				
SMF	152.53	359	ePKP	39	42.20	0.1
	0.2s	4.70nm				
BGF	152.63	1	ePKP	39	42.60	0.3
	0.8s	10.75nm				
DHLJ	152.79	301	PKP	39	40.67	-2.2
TCF	152.88	1	ePKP	39	42.70	0.0
	1.1s	22.00nm				
LSF	152.90	3	ePKP	39	42.50	-0.2
	0.9s	14.75nm				
VAI	152.92	351	PKP	39	49.90	7.3X
MAF	152.96	1	ePKP	39	43.10	0.4
OHR	153.40	329	ePKP	39	43.50	-0.1
	0.7s	58.00nm				
			i	39	51.00	
RJF	153.84	3	ePKP	39	44.40	0.4
	0.9s	13.10nm				
BNI	153.97	354	PKP	39	53.90	9.6X
CAF	154.24	2	ePKP	39	45.30	0.7
	1.2s	19.35nm				
CIO	154.56	343	ePKP	39	45.00	-0.1
BCAO	159.09	228	iPKPd	40	31.00	39.5X
	0.3s	30.00nm				
LIC	164.90	147	PKPc	39	57.54	0.4
	1.0s	30.50nm				
KIC	165.16	148	PKP	39	57.84	0.4
	0.7s	16.00nm				
TIC	165.26	146	PKPc	39	57.84	0.3
	0.9s	20.00nm				
LKO	167.24	137	PKPc	39	59.10	0.0
	0.8s	24.50nm				
	S.D. = 0.9	on 150 of 211 obs.				

& MAR 25, 1991 00h 53m 34.10s
59.985 N 146.651 W
DEPTH = 7.5km
2.6mb (1 obs.)
GULF OF ALASKA (15)
<AEIC>. ML 3.0 (PMR).

HIN	0.42	10	iPd	53	43.01	0.4
			eS	53	50.62	
MTU	0.50	271	iPc	53	44.16	-0.1
			eS	53	52.83	
MID	0.58	164	iPc	53	46.20	0.4
LTI	0.61	276	ePc	53	45.99	-0.3
KNIM	0.65	304	iPc	53	46.61	-0.7
			eS	53	56.71	
CVA	0.72	38	iPc	53	47.67	-0.8
			eS	53	58.56	
SGAM	0.89	54	iPc	53	50.53	-0.8
			eS	54	04.68	
GLI	0.92	346	iPc	53	50.92	-1.1
			eS	54	04.96	
RAGM	1.07	67	ePc	53	53.03	-1.4
			eS	54	08.53	
VZW	1.08	3	ePc	53	53.40	-1.3
			eS	54	08.50	
VLZ	1.16	8	ePc	53	54.51	-1.5
			eS	54	10.86	
HMT	1.25	73	ePc	53	56.21	-1.3
SEW	1.41	276	iPc	53	58.00	-2.1
KLU	1.56	13	iPc	54	00.75	-1.5
KNK	1.69	329	ePc	54	02.77	-1.3
SLKM	1.86	288	iPc	54	04.45	-2.1
			eS	54	28.26	
SCM	1.88	350	ePc	54	05.78	-1.2
			S	54	29.72	
PMS	1.91	313	ePc	54	05.36	-2.0
WAX	1.95	75	ePc	54	05.81	-2.2
PLRM	2.02	324	eP	54	06.89	-2.0
PMR	2.02	324	ePc	54	07.40	-1.5
GLB	2.02	42	iPc	54	07.42	-1.6
			eS	54	32.06	
GHO	2.11	329	ePc	54	08.86	-1.4
TOA	2.14	6	iPc	54	10.60	-0.1
PWA	2.30	318	eP	54	11.99	-0.9
NNL	2.33	273	eP	54	11.80	-1.6
CNPM	2.37	261	eP	54	13.05	-0.9
BALM	2.38	62	iPc	54	12.09	-2.1
NKA	2.40	290	ePc	54	13.39	-1.0
SUA	2.50	308	eP	54	13.32	-2.5
SDG	2.61	11	iPc	54	16.33	-1.0
RDT	2.93	284	ePc	54	18.75	-3.2
CUT	2.99	326	eP	54	21.15	-1.6
PAX	3.05	10	eP	54	22.27	-1.4
REF	3.06	282	ePc	54	20.76	-3.1
RSO	3.08	282	eP	54	20.94	-3.3
RS2	3.08	282	eP	54	21.32	-2.9
RED	3.09	281	ePc	54	20.97	-3.2
RDN	3.09	283	ePc	54	21.02	-3.3
NCT	3.18	283	eP	54	22.19	-3.3
RND	3.59	344	eP	54	30.13	-1.2
SVW	4.57	288	eP	54	40.70	-4.5
YKA	15.54	67	eP	57	19.00	4.2
	0.6s	0.20nm				2.6mb
	43 obs. associated					

& MAR 25, 1991 01h 52m 25.16s
64.982 N 148.947 W
DEPTH = 19.5km
3.5mb (2 obs.)
CENTRAL ALASKA (1)
<AEIC>. ML 3.4 (PMR).

MDM	0.31	94	iPc	52	31.87	-0.1
			S	52	36.29	
RDS	0.38	114	iPc	52	33.01	-0.1
NEA	0.41	188	iPd	52	33.51	-0.1
FBA	0.50	99	iPc	52	35.80	0.7
CCB	0.59	124	iPc	52	36.80	0.1
WRH	0.63	144	iPd	52	37.44	0.1
GLM	0.66	89	iPc	52	38.16	0.2
BWN	0.84	196	iPd	52	40.99	0.0
			eS	52	52.05	
HDA	1.03	123	iPd	52	43.86	-0.4
			iS	52	57.12	
MCK	1.25	180	ePd	52	47.33	-0.3
			iS	53	04.42	
RND	1.58	178	ePd	52	52.10	-0.3
TRF	1.65	201	ePd	52	52.84	-0.6
DDM	1.80	130	eP	52	54.40	-1.1
HUR	2.04	189	eP	52	58.82	-0.1
THY	2.10	137	eP	53	00.19	0.3
FYU	2.21	42	eP	53	01.36	0.0
IMA	2.25	301	eP	53	04.10	2.0
DOT	2.51	120	eP	53	06.19	0.4
PAX	2.54	141	ePd	53	05.81	-0.3
CUT	2.65	193	eP	53	07.99	0.3
SDG	2.89	147	eP	53	11.07	0.0
TMW	3.09	120	eP	53	14.12	0.2
TOA	3.14	155	ePc	53	16.20	1.5
GHO	3.22	180	ePd	53	14.99	-0.9
SKT	3.23	202	ePd	53	15.12	-0.8
PWA	3.37	188	eP	53	17.23	-0.6
PLRM	3.40	181	ePd	53	17.62	-0.7
PMR	3.40	181	eP	53	18.10	-0.2
KNK	3.59	176	ePd	53	20.60	-0.4
SUA	3.62	194	eP	53	20.79	-0.8
TTA	3.73	240	eP	53	23.20	0.1
KLU	3.76	157	eP	53	23.89	0.4
PMS	3.76	185	eP	53	23.82	0.3
NCG	3.88	203	ePd	53	24.49	-0.6
CRP	4.00	203	ePd	53	26.44	-0.5
BGL	4.05	204	eP	53	27.26	-0.3
SPU	4.07	202	eP	53	26.72	-1.1
CKL	4.10	204	eP	53	27.83	-0.5
GLB	4.25	144	eP	53	30.82	0.5
KNIM	4.68	173	eP	53	35.07	-1.5
RDT	4.70	201	eP	53	35.60	-1.2
BALM	4.97	140	eP	53	40.61	0.0
TGL	5.08	144	eP	53	41.26	-0.9
INK	6.97	55	P	54	07.00	-1.7
	0.4s	1.70nm				4.5mb
YKA	15.28	84	eP	56	02.00	0.9
	0.4s	0.10nm				2.5mb
	45 obs. associated					

? MAR 25, 1991 02h 08m 21.90± 0.92s
12.785 N ±69.8km 45.345 E ±34.4km
DEPTH = 10.0km (geophysicist)
WESTERN GULF OF ADEN (559)
MD 3.8 (ARO).

OBO	2.16	249	eP+	08	58.26	-0.1
MKL	2.39	244	eP+	09	00.99	-0.8
TDD	2.57	248	eP	09	04.33	0.0
ARO	2.74	243	eP+	09	06.54	-0.3
			eS	09	20.34	
SGH	2.97	243	eP+	09	09.93	-0.1
DAF	2.99	247	eP+	09	10.34	0.1
HLD	3.08	248	P	09	11.99	0.5
KSU	3.10	246	ePd	09	11.88	0.1
GBR	3.25	240	P	09	14.65	0.6
AAE	7.46	241	ePn	10	19.00	5.2X
KKN	40.12	62	P	16	00.00	0.0
	S.D. = 0.4	on 10 of 11 obs.				

? MAR 25, 1991 04h 30m 07.00± 8.88s
45.947 N ±55.1km 11.066 E ±40.4km
DEPTH = 5.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.9 (KBA).

CTI	0.42	76	P	30	15.40	0.0
			eSg	30	21.70	
OGA	0.92	358	ePg	30	25.20	0.0
SCE	1.18	22	iPgc	30	29.60	0.0
FVI	1.35	61	P	30	32.50	0.1
			eSn	30	51.50	
KBA	1.94	53	e(Pg)	30	46.00	4.9X
			eSg	31	09.50	
	S.D. = 0.1	on 4 of 5 obs.				

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* MAR 25, 1991 05h 42m 49.59± 2.40s
43.006 N ±15.7km 126.852 W ±13.6km
DEPTH = 10.0km (geophysicist)
3.8mb (2 obs.)
OFF COAST OF OREGON (30)

KMOR	3.57	41	P	43	45.23	-1.0
			S	44	25.48	
NLO	3.93	37	P	43	50.70	-0.5
GT2	3.94	55	P	43	52.05	0.6
PGO	4.01	51	P	43	53.40	1.1
VLMM	4.28	52	Pd	43	56.82	0.4
			S	44	45.26	
RVW	4.30	42	P	43	56.62	0.1
VBEM	4.32	60	P	43	57.19	0.3
BMW	4.32	35	P	43	56.17	-0.7
LVP	4.41	45	P	43	58.41	0.2
VLL	4.46	55	Pc	43	59.52	0.7
MTMW	4.49	46	P	43	59.08	-0.1
VFP	4.51	57	P	44	00.69	1.0
FL2	4.53	44	P	44	00.17	0.3
SHW	4.58	44	P	44	01.06	0.4
JLK	4.60	45	P	44	00.95	0.2

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APM      4.60   52 P      44 01.28    0.4
ERK      4.61   43 P      44 00.92   -0.1
CZM      4.62   41 P      44 01.55    0.5
STD      4.62   44 P      44 01.44    0.3
CDFW     4.63   46 P      44 01.22   -0.1
ESD      4.63   45 P      44 01.72    0.3
SOSW     4.66   45 P      44 01.98    0.2
CROR     4.67   63 P      44 01.42   -0.5
TDL      4.70   43 Pc     44 02.38    0.0
VIPM     4.76   69 P      44 02.96   -0.3
GULW     4.76   50 P      44 03.50    0.3
KOSW     4.79   42 P      44 03.81    0.2
LMW      4.89   40 P      44 04.93   -0.1
ASR      4.90   48 P      44 05.36    0.2
                 S       45 00.97
VTHM     5.03   62 P      44 06.81    0.0
VGB      5.03   58 P      44 06.69   -0.2
GLK      5.16   45 P      44 08.93    0.2
LON      5.18   42 P      44 09.44    0.4
REMR     5.21   41 P      44 09.89    0.3
GL2      5.23   54 Pc     44 09.63   -0.1
RVC      5.24   40 P      44 10.17    0.2
WPW      5.28   44 Pc     44 10.43    0.0
OTR      5.37   18 P      44 11.68   -0.1
FMW      5.38   41 Pc     44 12.07    0.1
GSM      5.52   39 P      44 13.67   -0.2
JBO      5.61   62 P      44 14.65   -0.4
PATW     5.83   58 P      44 18.17    0.0
MXC      5.88   50 P      44 18.67   -0.1
EBG      5.92   47 P      44 19.73    0.2
BRVW     6.00   52 P      44 20.49   -0.1
PRW      6.04   55 P      44 20.36   -0.7
TBM      6.08   45 P      44 18.97   -2.7
RSW      6.18   54 P      44 22.74   -0.5
JCW      6.23   32 P      44 24.29    0.5
GBL      6.37   53 P      44 25.42   -0.3
WAH2     6.39   52 P      44 26.73    0.6
ETW      6.50   43 P      44 27.94    0.2
RC1      6.57   51 P      44 28.46   -0.2
EPH      6.72   47 P      44 30.54   -0.2
NEW      8.61   49 eP     44 55.60   -1.5
FFC     20.01   45 eP     47 25.00    0.0
         0.9s     12.00nm          4.2mb
YKA     20.81   16 eP     47 33.50    0.2
         1.0s      1.50nm          3.3mb
      S.D. = 0.6   on  57 of  57 obs.
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?  MAR  25, 1991  06h 07m 51.88± 4.46s
   39.316 N ±38.2km   23.385 E ±41.3km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                          (365)
      MD 2.2 (THE).

PAIG     0.65   20 iPd    08 04.41   -0.4
                 eS      08 10.42
AGG      0.87  251 ePc    08 08.61    0.0
SRS      1.81    5 ePc    08 24.10    0.8
                 iS      08 46.10
KNT      1.88  349 ePc    08 23.98   -0.4
                 eS      08 47.06
      S.D. = 1.0   on   4 of   4 obs.
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&  MAR  25, 1991  08h 08m 31.40s
   37.632 N          118.963 W
   DEPTH =   7.0km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      <BRK>. ML 3.0 (BRK).

BONR     0.62   58 iPc    08 40.20   -3.6
FRI      0.87  223 iPc    08 47.50   -0.9
                 iS      08 58.80
CMB      1.20  290 ePc    08 53.10   -0.9
                 eS      09 07.90
TNP      1.45   71 eP     08 55.30   -3.0
KVN      1.57   25 eP     08 57.00   -2.9
PKEM     1.82  211 e(P)   09 01.60   -1.7
LLA      1.88  238 ePc    09 04.70    0.5
PRI      2.02  223 ePd    09 07.40    1.0
ARN      2.06  263 eP     09 05.30   -1.6
SAO      2.16  247 eP     09 09.20    0.9
PRS      2.32  237 eP     09 11.40    0.7
BCH      2.60  201 eP     09 12.80   -1.9
ORV      2.76  315 e(P)   09 14.30   -2.6
      13 obs. associated
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   MAR  25, 1991  08h 17m 47.58± 1.15s
   34.446 N ± 6.7km   24.510 E ± 3.6km
   DEPTH =  32.3 ±  7.9 km
   4.2mb ( 29 obs.)  3.3Msz (  1 obs.)
 CRETE                               (370)
      MD 4.2 (ATH).

NPS      1.22   48 iPbd   18 09.00    0.5
VLI      2.60  331 iPnd   18 30.80    2.5
APE      2.75   17 ePg    18 41.60   11.3X
ATH      3.58  350 iPnd   18 43.40    1.3
                 eSn     19 23.50
YER      4.07   48 iPn    18 51.00    1.7
CIN      4.28   42 eP     18 51.00   -1.1
IZM      4.53   29 ePn    18 56.10    0.4
VLS      4.89  321 ePn    19 03.70    3.0X
AGG      4.89  340 iPc    19 01.80    1.0
ELL      4.96   61 iPn    19 02.30    0.3
PRK      5.00   16 ePn    19 04.50    2.2
EZN      5.56   15 ePn    19 09.40   -0.8
KHL      5.60   45 ePn    19 11.00    0.2
BCK      5.78   57 iPn    19 13.70    0.3
DST      6.11   31 ePn    19 18.00   -0.1
KZN      6.24  340 ePn    19 19.50   -0.4
THE      6.30  349 iP     19 20.50   -0.1
KGT      6.39   20 ePn    19 22.00    0.1
SOH      6.43  352 iPd    19 22.50    0.0
KEK      6.47  326 ePn    19 21.70   -1.3
SRS      6.70  354 iP     19 25.50   -0.8
RDO      6.74    7 ePn    19 25.70   -1.1
FNA      6.80  339 iPc    19 26.60   -1.1
KNT      6.83  350 iPd    19 28.00    0.0
VAY      7.03  348 ePn    19 32.00    1.1
YLV      7.23   31 ePn    19 33.00   -0.7
OHR      7.27  337 ePn    19 33.00   -1.3
CSS      7.28   83 e(P)   19 35.00    0.5
SOI      7.73  300 P      19 40.00   -0.6
DMK      7.79   18 iP     19 40.80   -0.8
LCI      7.86  320 P      19 40.50   -1.9
TDS      8.35  311 P      19 49.20   -0.1
BRT      8.65  320 P      19 52.00   -1.4
                 eSn     21 23.20
MGR      9.12  311 P      19 58.90   -1.0
                 eSn     21 38.00
HRI      9.41   94 eP     19 58.00   -6.1X
                 eS      21 30.00
SGO      9.52  313 P      20 05.10   -0.3
                 eSn     21 46.20
MKT      9.62  108 eP     20 05.00   -1.9
                 eS      21 43.00
MBH      9.95  115 eP     20 11.00   -0.5
MLR     11.09    5 eP     20 28.00    1.0
ZST     14.81  340 iP     21 21.70    5.4X
                 e       42 11.60
CTI     15.17  324 P      21 27.50    6.4X
KBA     15.17  330 e(P)   21 20.00   -1.2
         0.6s      7.50nm          4.1mb
                 i       21 29.50
KRA     15.96  349 eP     21 30.90   -0.2
PRU     17.17  338 P      21 48.40    1.9
         1.0s     10.10nm          3.9mb
KSP     17.45  342 eP     21 51.00    1.1
LPG     17.48  314 eP     21 53.90    3.2X
         0.5s      3.30nm          3.7mb
LPL     17.51  314 eP     21 53.90    3.0X
         0.5s      3.30nm          3.7mb
GRF     18.11  331 eP     21 58.70    0.6
      Z  20s      0.20um
                 ic      22 00.70
BRG     18.13  338 iP     21 58.60    0.2
         1.0s     20.00nm          4.2mb
MOX     18.73  334 e(P)   22 06.50    0.8
CLL     18.81  337 eP     22 06.00   -0.7
         1.4s     18.00nm          4.1mb
BSF     18.83  321 eP     22 06.90   -0.2
         0.7s      9.90nm          4.1mb
CDF     18.96  323 eP     22 08.60    0.0
         0.6s      6.30nm          4.0mb
HAU     19.17  320 eP     22 10.40   -0.7
         0.6s      7.20nm          4.1mb
SMF     19.81  314 eP     22 17.30   -0.9
         0.7s      5.50nm          4.0mb
LBF     19.91  315 eP     22 19.00   -0.2
LOR     20.12  316 eP     22 21.20   -0.3
         0.5s      4.00nm          4.0mb
AVF     20.17  314 eP     22 21.80   -0.2
         0.7s      6.05nm          4.0mb
SSF     20.22  315 eP     22 22.20   -0.3
         0.5s      5.85nm          4.2mb
MAF     20.38  312 eP     22 25.30    1.2
LPO     20.62  307 eP     22 27.30    0.7
TCF     20.63  312 eP     22 27.10    0.4
         0.8s      7.40nm          4.1mb
RJF     20.64  309 eP     22 27.50    0.6
         0.7s     13.25nm          4.4mb
      Z  19s      0.13um          3.3Msz
LFF     21.01  307 eP     22 31.40    0.8
         0.8s     12.10nm          4.4mb
LSF     21.03  311 eP     22 31.90    1.1
         0.8s     24.20nm          4.7mb
MEM     21.05  326 Pc     22 32.20    1.3
DOU     21.39  323 P      22 35.20    0.8
         0.8s     38.30nm          4.9mb
MFF     22.23  311 eP     22 44.00    1.2
         0.6s     11.70nm          4.5mb
LDF     23.10  315 eP     22 51.70    0.3
         0.8s     13.45nm          4.5mb
LPF     23.39  313 eP     22 54.70    0.5
         0.7s     12.15nm          4.5mb
FLN     23.40  315 eP     22 54.70    0.5
         0.8s     13.45nm          4.5mb
GRR     23.44  314 eP     22 55.20    0.5
         0.7s      8.80nm          4.4mb
NUR     26.08    0 eP     23 17.50   -2.2
HFS     26.66  348 eP     23 23.70   -1.3
         0.4s      4.20nm          4.4mb
KAF     27.71    2 eP     23 32.70   -1.9
         0.4s      4.70nm          4.5mb
NB2     27.96  346 P      23 35.40   -1.5
         0.6s      2.60nm          4.1mb
EKA     28.32  326 Pc     23 39.90   -0.3
         0.5s      1.90nm          4.1mb
BCAO    30.37  192 iPd    24 02.90    4.0X
         0.2s     12.00nm          5.3mb X
KIC     38.86  231 (P)    25 15.40    3.7X
INK     76.25  352 eP     29 34.50    0.4
YKA     77.96  342 eP     29 44.40    0.7
         0.4s      1.10nm          4.2mb
FFC     80.01  332 eP     29 57.00    2.0
         0.6s      5.00nm          4.7mb
      S.D. = 1.1   on  73 of  82 obs.
-------------------------------------------
?  MAR  25, 1991  08h 28m 09.91± 1.14s
   50.369 N ±25.2km  178.453 E ±26.4km
   DEPTH =  33.0km  (normal)
   4.2mb (  2 obs.)
 RAT ISLANDS, ALEUTIAN ISLANDS    (  6)

ADK      3.42   62 iPd    29 02.60    0.5
ANM     16.60   25 eP     32 07.70    6.4X
SVW     17.99   43 eP     32 17.40   -1.4
TTA     18.68   38 eP     32 26.60   -0.6
IMA     21.22   32 eP     32 55.30    0.4
TOA     22.57   45 eP     33 08.20   -0.1
FBA     22.81   38 eP     33 10.30   -0.2
INK     29.28   34 eP     34 12.00    1.3
YKA     37.18   45 eP     35 19.70    0.5
         0.4s      0.80nm          3.9mb
STK     88.15  211 eP     40 57.80   -0.4
         0.7s      1.50nm          4.4mb
      S.D. = 0.9   on   9 of  10 obs.
-------------------------------------------
%  MAR  25, 1991  09h 07m 40.65± 0.65s
   42.367 N ± 5.5km   18.930 E ± 5.7km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                          (383)
      ML 1.1 (TTG).

BDV      0.11  222 iPgc   07 43.90    0.3
                 iSg     07 45.18
TTG      0.25   76 iPgd   07 46.10    0.1
                 iSg     07 50.25
HCY      0.33  284 iPgc   07 47.27   -0.2
                 iSg     07 53.18
NKY      0.45    6 iPgd   07 49.87    0.1
                 iSg     07 57.33
ULC      0.47  149 iPgd   07 49.95   -0.2
                 iSg     07 59.83
BRY      0.60  332 iPgd   07 52.89   -0.1
                 iSg     0B 02.85
      S.D. = 0.3   on   6 of   6 obs.
-------------------------------------------
?  MAR  25, 1991  10h 03m 44.26± 1.03s
   40.813 N ±10.2km   29.483 E ± 8.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
```

25d 10h

```
GBZT     0.04 231 ePg   03 46.00  -0.3
                  iSg   03 47.00
HRT      0.14  86 iPg   03 47.60   0.0
                  eSg   03 50.60
YLV      0.26 199 iPg   03 50.00   0.2
CTT      0.86 293 ePg   04 01.00   0.1
      S.D. = 0.4   on   4 of   4 obs.
-------------------------------------
%  MAR 25, 1991  10h 17m 03.59± 0.97s
   39.100 N ± 8.2km   27.583 E ±14.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)

IZM      0.74 200 ePg   17 18.10  -0.1
                  iSg   17 30.60
DST      0.95  58 ePn   17 22.50   0.7
EDC      1.26  10 ePn   17 27.00   0.0
BNT      1.28  12 ePn   17 28.00   0.7
KCT      1.29  27 ePn   17 26.00  -1.6
KGT      1.37 351 ePn   17 29.00   0.4
YLV      2.01  43 ePn   17 50.50  12.5X
      S.D. = 1.1   on   6 of   7 obs.
-------------------------------------
&  MAR 25, 1991  12h 23m 55.78s
   61.532 N          144.652 W
   DEPTH =  35.9km
 SOUTHERN ALASKA                 (  2)
      <AEIC>.

GLB      0.41 102 iPd   24 04.57  -0.7
                  eS    24 11.89
KLU      0.61 267 iPc   24 07.06  -1.0
TZL      0.63 325 iPc   24 07.69  -0.6
VLZ      0.90 244 iPc   24 10.79  -1.3
                  eS    24 22.96
TOA      0.92 309 iPc   24 11.80  -0.7
VZW      1.03 243 iPc   24 12.57  -1.4
                  eS    24 26.34
SGAM     1.07 195 ePd   24 13.70  -0.8
                  eS    24 27.44
SDG      1.08 338 iPc   24 13.63  -1.1
                  eS    24 27.10
CVA      1.12 209 ePc   24 14.87  -0.3
                  eS    24 29.20
RAGM     1.15 181 ePd   24 15.38  -0.3
                  eS    24 28.53
TGL      1.18 131 iPc   24 14.74  -1.4
HMT      1.21 171 ePc   24 15.85  -0.7
                  eS    24 32.19
BALM     1.22 113 iPc   24 15.59  -1.2
                  eS    24 32.06
GLI      1.35 242 ePc   24 17.16  -1.4
                  eS    24 34.85
WAX      1.40 140 iPc   24 18.49  -0.8
                  eS    24 36.27
HIN      1.45 219 ePc   24 18.91  -1.2
                  eS    24 36.76
PAX      1.49 346 iPd   24 19.77  -1.0
                  eS    24 38.30
CTGM     1.70 108 iPc   24 23.25  -0.5
                  eS    24 43.90
KNK      1.83 268 ePc   24 24.05  -1.4
KNIM     1.92 233 ePc   24 24.87  -1.8
                  S     24 48.26
TMW      1.96  22 eP    24 26.97  -0.3
WRG      1.97 138 ePc   24 26.38  -1.1
                  eS    24 51.78
GHO      2.05 279 ePc   24 27.16  -1.5
                  eS    24 52.48
MTU      2.14 225 ePc   24 28.21  -1.6
PLRM     2.14 274 eP    24 29.01  -0.8
DDM      2.33 347 eP    24 32.54   0.0
PMS      2.38 265 ePd   24 32.13  -1.1
PWA      2.50 275 eP    24 33.84  -1.1
RND      2.71 316 eP    24 37.73  -0.3
SEW      2.75 241 eP    24 36.06  -2.4
CUT      2.79 291 eP    24 37.85  -1.2
SLKM     2.90 252 eP    24 38.66  -2.0
SUA      2.92 271 ePc   24 42.06   1.0
HDA      3.07 341 ePc   24 41.89  -1.2
NKA      3.29 259 eP    24 45.80  -0.3
SKT      3.30 281 ePc   24 44.31  -2.0
SPU      3.58 268 eP    24 48.68  -1.6
NNL      3.58 248 eP    24 48.91  -1.4
NCG      3.60 271 eP    24 50.10  -0.6
FBA      3.67 339 eP    24 49.75  -1.8
GLM      3.68 342 ePc   24 49.92  -1.9

CKL      3.72 268 ePc   24 50.77  -1.5
BGL      3.73 269 eP    24 51.17  -1.4
MDM      3.80 336 eP    24 51.23  -2.2
CNPM     3.83 241 eP    24 50.94  -2.8
RDT      3.89 259 ePc   24 51.94  -2.8
REF      4.06 259 eP    24 54.47  -2.7
RDN      4.08 259 eP    24 54.30  -3.1
RSO      4.09 258 ePc   24 54.98  -2.7
RED      4.11 258 eP    24 54.94  -3.0
NCT      4.14 260 eP    24 55.65  -2.7
        51 obs. associoted
-------------------------------------
?  MAR 25, 1991  14h 18m 33.11± 3.55s
   37.832 N ±16.5km   26.534 E ±29.3km
   DEPTH =  10.0km  (geophysicist)
 DODECANESE ISLANDS              (369)

IZM      0.81  45 iPg   18 48.30  -0.5
                  eSg   18 57.70
CIN      1.25 100 eP    18 57.00   0.6
YER      1.56 116 ePn   19 00.40  -0.5
DST      2.41  42 ePn   19 16.00   2.7X
KGT      2.68  13 ePn   19 17.40   0.3
      S.D. = 1.0   on   4 of   5 obs.
-------------------------------------
?  MAR 25, 1991  14h 31m 43.64± 1.26s
   40.495 N ± 7.5km   29.405 E ±12.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)

YLV      0.08 341 iPg   31 45.90  -0.2
                  eSg   31 47.90
IZI      0.17 162 iPg   31 47.70   0.2
HRT      0.38  31 ePg   31 52.00   0.5
EYL      0.58  83 iPg   31 55.00  -0.4
                  eSg   32 02.00
      S.D. = 0.7   on   4 of   4 obs.
-------------------------------------
   MAR  25, 1991  14h 54m 15.24± 0.51s
   50.292 N ± 4.9km   12.232 E ± 4.7km
   DEPTH =  10.0km  (geophysicist)
 GERMANY                         (543)
      ML 3.1 (KBA), 2.6 (GRF).

HOF      0.23 275 iPgd  54 20.50   0.3
                  iSg   54 23.50
MOX      0.53 312 iPg   54 26.00   0.0
                  iSg   54 33.00
GRF      0.89 228 iPgc  54 32.20  -0.1
                  iSg   54 43.60
CLL      1.13  25 iPn   54 35.80  -0.6
                  iPg   54 36.50
                  iSg   54 51.30
WET      1.22 160 iPgc  54 38.00   0.0
BRG      1.24  61 iPg   54 38.20   0.0
                  iSg   54 38.30
                  i     54 42.60
KHC      1.45 143 eP    54 41.10  -0.5
                  Pg    54 43.80
                  Sg    55 01.30
PRU      1.52 101 Pn    54 43.60   1.2
       0.5s    61.90nm
                  Pg    54 45.00
                  e     54 47.60
                  Sg    55 02.50
                  e     55 04.20
FUR      2.22 197 iPg   54 57.50   4.8X
TNS      2.43 270 ePn   55 00.30   4.7X
                  e$n   55 31.30
KSP      2.65  76 iP    55 03.00   4.3X
                  i$    55 38.50
KBA      3.30 167 iPnc  55 07.80  -0.4
                  i$n   55 40.80
                  i$g   55 57.10
                  i     55 58.80
FEL      3.68 231 eP    55 20.58   7.1X
FVI      3.72 174 P     55 41.50  27.6X
                  e$n   56 13.00
ZST      3.82 121 eP    56 19.00  63.7X
CTI      4.27 185 P     55 52.00  30.2X
                  e$n   56 30.00
      S.D. = 0.6   on   9 of  16 obs.
-------------------------------------
   MAR  25, 1991  15h 24m 18.09± 0.22s
    2.960 S ± 3.9km  127.981 E ± 5.4km
   DEPTH =  33.0km  (normal)
   5.4mb ( 36 obs.)  4.9Msz ( 15 obs.)

 CERAM SEA                       (270)

KUG      8.38 211 ePd   25 43.00 -37.3X
       1.0s    388.30nm
MTN     10.31 163 eP    26 48.80   2.0
       0.3s    224.00nm          6.9mb X
                  eS    28 48.00
CGP     11.80 344 eP    27 05.00  -2.2
       1.1s      6.00nm          4.7mb
KNA     12.73 177 iPd   27 22.50   2.8X
PLP     14.35 348 eP    27 40.00  -0.9
       1.5s      6.50nm          4.0mb X
TRT     15.99 252 ePd   28 01.30  -0.9
       0.8s    142.80nm          5.2mb
WB2     17.99 160 iPc   28 27.20  -0.2
       0.5s    216.20nm          5.5mb
                  eS    31 42.10
OCP     18.77 339 eP    28 42.00   4.9X
MBL     19.75 203 iPc   28 46.90  -1.4
       0.7s    173.00nm          5.5mb
PMG     20.10 109 eP    28 54.00   2.0
       1.0s    120.00nm          5.2mb
BAG     20.59 339 eP    28 55.00  -2.3
       1.4s    790.70nm          5.9mb
                  eS    32 40.00
QIS     20.84 148 iPc   28 57.80  -1.9
                  eS    32 50.00
ASPA    21.37 165 iPc   29 04.70  -0.3
       1.4s    745.30nm          5.9mb
     Z  18s      5.10um          4.9Msz
                  iS    32 58.50
                  iScS  40 24.40
SZP     21.69 340 eP    29 10.00   1.8
PIP     22.36 341 ePc   29 15.80   0.9
GUA     23.47  45 eP    29 25.20  -0.6
       1.2s    312.50nm          5.7mb
PJG     23.47  45 eP    29 25.50  -0.3
RAB     24.17  94 eP    29 34.00   1.4
                  iS    33 52.00
CTA     24.65 135 iPc   29 37.50   0.2
       1.2s    121.88nm          5.4mb
                  iS    33 58.00
KGM     25.14 281 ePc   29 44.00   2.0
MEKA    25.20 200 iPd   29 41.60  -0.9
IPM     27.96 285 ePc   30 09.10   1.2
       1.0s     45.70nm          5.1mb
QLP     28.19 148 e(P)  30 15.00   5.2X
HKC     28.50 332 eP    30 27.00  14.3X
                  eS    35 00.00
ANP     28.67 348 eP    30 14.00  -0.3
SNG     29.11 290 eP    30 10.20  -8.0X
                  eS    35 38.00
QZH     29.20 342 eP    30 18.40  -0.5
     Z  18s      1.60um          4.7Msz
     N  11s      0.56um
                  S     35 08.00
BAL     29.49 200 eP    30 20.00  -1.6
GZH     29.56 332 P     30 22.00  -0.2
     N  10s      1.10um
                  S     35 12.00
PSI     29.58 281 ePc   30 24.60   2.1
KLB     30.06 198 eP    30 25.00  -1.6
       0.3s      9.00nm          5.0mb
RMO     30.73 142 e(P)  30 33.50   0.9
                  e     31 22.00
                  e     37 11.00
MUN     30.92 200 eP    30 32.00  -2.1
NWAO    31.47 197 eP    30 37.00  -2.0
       0.6s     15.00nm          5.0mb
     Z  20s      2.20um          4.8Msz
STK     31.49 157 iPc   30 58.20  19.0X
       1.0s     27.50nm
                  iPP   31 12.90
                  iS    36 02.20
NNT     32.03 299 eP    30 32.00 -12.1X
SVO     32.23 102 eP    30 44.00  -1.9
HNR     32.40 103 eP    30 47.00  -0.4
RKG     32.60 197 iPd   30 53.00   4.2X
LOE     32.87 309 eP    30 51.50   0.1
CMS     32.99 151 eP    30 51.00  -1.2
                  i     31 38.00
NST     33.19 305 eP    30 58.00   3.8X
ADE     33.37 164 iPc   30 55.00  -0.6
       1.2s    131.25nm          5.7mb
BSI     33.71 284 eP    30 58.00  -0.7
SSE     34.48 350 P     31 05.50   0.4
     Z  20s      1.50um          4.7Msz
```

	N 12s 0.80um						
		pP	31	18.00	47kmX		
		S	36	28.00			
		sS	36	48.00			
		SS	38	41.00			
BDT	34.94 306 eP		31	10.20	1.0		
COO	35.58 143 eP		31	14.00	-0.6		
WHN	35.77 340 Pd		31	17.00	0.9		
	1.4s 100.00nm				5.6mb		
	Z 18s 0.90um				4.6Msz		
	N 14s 0.60um						
	E 12s 0.50um						
		sP	31	28.50			
		iS	36	53.00			
GYA	35.78 326 P		31	17.20	0.8		
	N 15s 1.50um						
	E 15s 1.70um						
		S	36	54.00			
CHG	35.84 308 ePc		31	18.30	1.3		
	1.3s 55.29nm				5.3mb		
		eS	36	56.00			
NJ2	35.88 347 Pc		31	17.00	-0.1		
	Z 20s 0.70um				4.4Msz		
	N 11s 0.70um						
	E 10s 0.60um						
		S	36	52.00			
BFD	36.59 160 eP		31	23.00	0.0		
		i	33	10.70			
KMI	37.14 320 Pc		31	30.00	2.0		
	1.5s 60.00nm				5.2mb		
		pP	31	37.00	24kmX		
		S	37	16.00			
CNB	37.81 151 eP		31	35.00	1.6		
TSRJ	39.02 10 P		31	42.80	-0.6		
CHJJ	40.15 14 P		31	53.10	0.3		
TIA	40.27 346 eP		31	53.50	-0.2		
	Z 24s 1.10um				4.6MszX		
		S	37	58.00			
MTMJ	40.39 12 eP		31	53.70	-1.2		
MAT	40.44 13 iPd		31	53.20	-2.0		
	2.5s 300.00nm				5.6mb		
	Z 20s 2.13um				5.0Msz		
		eS	37	56.00			
CD2	40.84 327 P		31	59.40	0.9		
	N 11s 1.20um						
		sP	32	12.30			
		S	38	06.00			
XAN	40.95 336 Pd		31	59.00	-0.4		
	1.5s 500.00nm				6.0mb		
	N 16s 1.00um						
NIIJ	41.29 13 eP		32	00.50	-1.5		
DZM	41.88 120 iPc		32	07.10	-0.2		
YAMJ	42.42 14 eP		32	09.90	-1.5		
TIY	42.96 342 eP		32	13.70	-2.2		
	Z 18s 0.97um				4.7Msz		
	N 17s 0.99um						
		pP	32	29.00	60kmX		
TAU	43.35 159 eP		32	19.00	0.1		
		e	38	38.00			
OFUJ	43.69 15 eP		32	19.80	-1.9		
BJI	44.14 347 eP		32	24.00	-1.3		
	1.2s 38.00nm				5.1mb		
	Z 17s 1.75um				5.0MszX		
	E 16s 0.29um						
		PcS	38	03.00			
		eS	38	50.00			
		eScS	42	22.00			
SNY	44.76 355 Pc		32	29.40	-0.8		
	1.6s 60.00nm				5.2mb		
	Z 20s 1.60um				4.9Msz		
	N 14s 0.80um						
	E 14s 0.50um						
		pP	32	40.50	39kmX		
		S	39	02.00			
LZH	44.92 332 Pd		32	32.50	0.7		
	5.0s 370.00nm				5.5mb X		
	Z 22s 1.52um				4.9Msz		
	N 12s 0.57um						
		pP	32	40.00	25kmX		
		sP	32	48.00			
		PP	34	20.00			
		ScP	38	05.00			
		S	39	06.00			
		SS	42	20.00			
HHC	46.11 343 eP		32	40.70	-0.4		
BTO	46.36 341 eP		32	43.00	-0.1		
	N 15s 0.70um						

	E 15s 0.60um						
		sP	32	51.50			
		eS	39	24.00			
		eSS	42	44.00			
CN2	46.60 357 Pc		32	43.00	-1.8		
	Z 18s 4.40um				5.5Msz		
	N 13s 0.60um						
	E 13s 0.30um						
		pP	32	55.00	43kmX		
MRRJ	46.70 13 P		32	56.70	11.1X		
MDJ	47.39 2 Pd		32	50.50	-0.5		
	1.5s 200.00nm				5.9mb		
	Z 20s 1.80um				5.0Msz		
		S	39	42.00			
LSA	47.92 315 iPc		32	57.80	1.8		
KUSJ	48.27 16 eP		32	57.50	-0.4		
ASAJ	48.68 14 eP		33	00.10	-1.0		
GTA	49.49 331 eP		33	07.40	-0.2		
	1.6s 40.00nm				5.2mb		
	Z 20s 1.30um				4.9Msz		
	E 12s 0.80um						
		sP	33	18.20			
		ScP	38	26.00			
		S	40	05.00			
		sS	40	25.00			
		ScS	42	55.00			
		SS	43	43.00			
KKN	51.21 310 P		33	21.20	0.2		
KOD	51.97 285 eP		33	26.80	-0.3		
		eS	40	50.00			
GBA	52.77 289 Pc		33	30.90	-1.7		
	1.1s 24.80nm				5.1mb		
HYB	52.78 294 iPc		33	32.60	-0.2		
	1.0s 60.00nm				5.5mb		
MNG	56.85 138 eP		34	01.60	-0.4		
	0.4s 11.00nm				5.2mb		
NOZ	57.71 135 eP		34	08.80	0.7		
NDI	57.96 307 iPc		34	08.00	-2.0		
		eS	42	08.00			
WMQ	58.93 327 P		34	16.80	0.2		
	2.0s 100.00nm				5.6mb		
	Z 22s 0.90um				4.9Msz		
		S	42	21.00			
		ScS	44	00.00			
QUE	66.85 305 iPc		35	09.30	-0.2		
		eS	44	02.70			
ADK	71.83 32 eP		35	40.70	1.3		
MAW	77.97 201 eP		36	14.40	0.1		
ANM	82.84 24 eP		36	42.40	2.1		
PMO	83.57 105 eP		36	52.00	7.1X		
	1.2s 60.00nm				5.6mb		
VAH	83.82 105 eP		36	53.00	6.8X		
	1.2s 40.00nm				5.4mb		
TPT	83.84 105 eP		36	53.00	6.7X		
	1.2s 50.00nm				5.5mb		
RUV	84.06 105 eP		36	55.00	7.6X		
	1.2s 45.00nm				5.5mb		
TAB	85.24 308 eP		36	54.00	0.8		
SVW	86.03 28 eP		36	58.70	2.2		
TTA	86.28 26 eP		37	01.60	3.9X		
	1.5s 35.90nm				5.4mb		
SPA	87.06 180 eP		37	00.00	-1.6		
	1.0s 22.50nm				5.4mb		
IMA	87.97 24 eP		37	07.60	1.7		
	1.3s 11.00nm				5.0mb		
NPA	88.01 255 eP		37	08.70	1.8		
FBA	90.20 25 eP		37	19.00	2.7X		
TOA	90.64 28 eP		37	20.50	2.0		
INK	95.88 22 eP		37	42.00	-0.4		
MBC	98.16 13 eP		38	00.50	8.0X		
VRI	99.96 316 ePc		38	00.00	-1.3		
MLR	100.54 316 ePdiff		38	06.00	1.9		
		e	42	20.00			
APO	104.23 332 ePdiff		38	29.00	9.1X		
	1.0s 9.20nm				5.6mb		
YKA	105.01 25 ePdiff		38	25.10	1.8		
	0.9s 1.00nm				4.7mb		
YKA	105.01 25 ePKP		42	43.00	5.0X		
	0.8s 1.00nm						
NB2	105.29 333 Pdiff		38	23.90	-0.8X		
	1.1s 5.60nm				5.4mb		
CLL	107.74 323 ePKP		42	56.00	12.4X		
		eSg	01	29.00			
BCAO	109.60 274 iPKPd		42	49.00	0.7		
	1.6s 39.00nm						
		id	43	17.00			
FFC	114.49 29 ePKP		42	57.00	0.6		

	0.9s 10.00nm						
FRB	118.15 8 ePKP		43	03.00	0.0		
UYO	129.78 47 iPKPc		43	28.00	1.7		
LIC	133.06 276 PKP		43	34.00	0.9		
	Z 20s 0.38um				5.1Msz		
LKO	133.42 280 PKP		43	34.14	0.4		
TCA	143.85 162 ePKPc		43	49.80	-2.6X		
UPA	152.00 76 ePKPc		44	12.00	6.3X		
ARE	152.75 136 ePKP		44	17.00	9.9X		
BMA	153.37 196 ePKP		44	15.80	8.3X		
VAO	153.73 191 ePKP		44	17.20	9.2X		
CNCB	154.81 142 PKP		44	13.70	3.5X		
ZOBO	155.13 141 PKPc		44	12.00	1.4		
	1.1s 20.30nm						
	Z 24s 0.28um				5.0MszX		
		LR	41	08.00			
CCH	155.45 146 PKP		44	13.90	3.2X		
SIV	159.15 155 PKP		44	16.60	1.7		
		i	44	52.80			
PDCR	159.97 220 (PKP)		44	17.00	1.2		
	S.D. = 1.3 on 99 of 128 obs.						

& MAR 25, 1991 15h 46m 15.10s
37.655 N 118.943 W
DEPTH = 5.0km
3.3mb (1 obs.)
CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 3.6 (BRK).

BONR	0.59 59 iPc		46	25.90	-1.0		
PPK	0.85 105 P		46	30.60	-1.6		
FRI	0.90 223 iPc		46	31.90	-0.9		
		iS	46	43.50			
SVP	0.91 86 P		46	31.80	-1.4		
LCH	1.11 112 P		46	35.00	-1.6		
CMB	1.20 289 iPc		46	37.50	-0.5		
TNP	1.43 72 eP		46	41.40	-0.6		
KVN	1.54 25 eP		46	43.00	-0.5		
PKEM	1.84 211 eP		46	48.00	0.3		
LLA	1.91 238 iPc		46	49.30	0.7		
PRI	2.05 223 ePc		46	51.50	0.8		
ARN	2.08 262 eP		46	51.00	-0.1		
PRS	2.35 237 eP		46	55.70	0.7		
BKS	2.62 276 eP		46	59.80	1.0		
BCH	2.63 201 eP		46	58.60	-0.5		
BRK	2.64 276 eP		46	59.90	0.9		
ORV	2.76 314 eP		47	01.00	0.2		
ABL	2.81 185 eP		47	01.70	0.0		
PEC	4.02 158 eP		47	19.00	0.2		
PLM	4.62 158 eP		47	27.00	-0.3		
YKA	25.01 5 eP		51	43.00	2.0		
	1.1s 0.80nm				3.3mb		
	21 obs. associated						

• MAR 25, 1991 17h 23m 42.74± 2.65s
31.886 S ±12.1km 69.493 W ±19.7km
DEPTH = 127.2 ± 22.5 km
SAN JUAN PROVINCE, ARGENTINA (137)

RTCB	0.71 56 ePc		24	02.80	-0.5		
		eS	24	20.50			
ZON	0.77 64 eP		24	04.00	0.3		
		eS	24	22.00			
RTLL	1.03 58 ePd		24	06.10	0.0		
		eS	24	27.10			
CFA	1.10 76 iPd		24	07.00	0.2		
		eS	24	28.50			
MDZ	1.13 151 iP		24	07.10	0.0		
		iS	24	26.00			
RTRS	1.71 1 ePd		24	13.50	0.1		
		eS	24	39.60			
TCA	4.22 84 ePd		24	46.20	-0.1		
	S.D. = 0.4 on 7 of 7 obs.						

• MAR 25, 1991 17h 30m 35.60± 0.62s
19.344 N ± 8.3km 121.057 E ±10.5km
DEPTH = 33.0km (normal)
4.5mb (4 obs.) 3.8Msz (1 obs.)
PHILIPPINE ISLANDS REGION (248)

PIP	1.09 202 iPd		30	54.50	-0.1		
		iS	31	09.20			
CVP	1.78 156 iPc		31	05.20	0.6		
		eS	31	26.80			
HKC	7.08 296 eP		32	19.20	-0.4		
MCO	7.54 293 eP		32	25.00	-1.1		
PLP	8.97 154 eP		32	45.50	-0.4		

25d 17h

CHG	20.91	272	eP	35	20.00	2.2	
BJI	21.05	350	eP	35	18.00	-1.1	
NNT	21.56	255	eP	34	54.00	-30.4X	
LZH	22.53	321	eP	35	37.00	2.8X	
	2.0s		43.00nm			4.6mb	
	Z 18s		0.29um			3.8Msz	
MAT	22.81	38	eP	35	30.00	-6.7X	
KKN	33.76	291	P	37	00.00	-16.8X	
WB2	41.16	161	eP	38	15.30	-3.4X	
	0.5s		2.70nm			4.2mb	
ASPA	44.55	163	eP	38	44.80	-1.5	
	0.8s		4.70nm			4.4mb	
INK	77.74	22	eP	42	31.00	0.5	
MBC	77.99	12	eP	42	32.50	0.7	
YKA	87.46	23	eP	43	21.30	0.5	
	0.7s		3.20nm			4.7mb	
	S.D. = 1.2		on 11 of 16 obs.				

MAR 25, 1991 17h 46m 00.67± 0.26s
59.991 N ± 2.9km 146.711 W ± 1.9km
DEPTH = 33.0km (normal)
4.1mb (4 obs.)
GULF OF ALASKA (15)
ML 4.4 (PMR).

HIN	0.42	14	ePd	46	09.21	-0.9	
			eS	46	16.50		
MTU	0.47	270	iPc	46	10.41	-0.5	
LTI	0.58	275	iPc	46	12.22	-0.2	
			eS	46	21.85		
MID	0.60	161	iPd	46	12.90	0.3	
KNIM	0.63	305	iPc	46	12.81	-0.3	
			eS	46	22.47		
CVA	0.74	40	iPc	46	14.01	-0.6	
			eS	46	24.99		
SGAM	0.91	55	iPc	46	16.95	-0.1	
GLI	0.91	348	iPc	46	17.11	0.0	
VZW	1.07	4	ePc	46	19.63	0.1	
RAGM	1.09	68	iPc	46	19.54	-0.2	
			eS	46	34.63		
VLZ	1.16	9	iPc	46	20.75	0.2	
			eS	46	36.05		
HMT	1.27	73	ePc	46	22.89	0.6	
			eS	46	39.77		
SEW	1.38	276	iPc	46	24.32	0.6	
			eS	46	43.60		
KLU	1.56	14	iPc	46	27.07	0.6	
KNK	1.66	330	iPc	46	29.00	1.0	
			eS	46	49.30		
SLKM	1.83	288	iPc	46	30.46	0.2	
PMS	1.89	313	iPc	46	31.54	0.3	
WAX	1.98	75	iPc	46	32.45	-0.1	
			eS	46	56.61		
PLRM	2.00	325	iPc	46	33.21	0.5	
			eS	46	57.01		
PMR	2.00	325	iPc	46	33.80	1.1	
GLB	2.04	43	iPc	46	33.77	0.4	
			eS	46	58.65		
TGL	2.08	67	iPc	46	33.96	0.0	
			eS	46	58.95		
GHO	2.09	330	iPc	46	35.04	0.9	
			eS	47	01.36		
BRLK	2.12	266	eP	46	35.48	1.0	
			eS	47	00.52		
TOA	2.14	7	iPc	46	36.80	2.0	
TZL	2.15	16	iPc	46	36.66	1.7	
PWA	2.28	318	iPc	46	37.08	0.4	
NNL	2.30	273	ePc	46	37.88	0.8	
CNPM	2.34	260	eP	46	38.29	0.7	
WRG	2.35	87	eP	46	37.81	0.0	
NKA	2.37	291	iPc	46	39.55	1.5	
BALM	2.40	62	iPc	46	38.48	-0.1	
SUA	2.47	308	iPc	46	39.53	-0.1	
SDG	2.61	12	iPc	46	42.65	1.2	
CTGM	2.84	68	ePc	46	44.72	0.0	
SPU	2.89	297	iPc	46	44.98	-0.5	
RDT	2.90	284	iPc	46	44.98	-0.6	
CUT	2.97	326	iPc	46	46.95	0.4	
CRP	2.97	298	iPc	46	46.57	-0.2	
CKL	3.03	296	iPc	46	46.92	-0.6	
REF	3.03	282	iPc	46	47.03	-0.5	
NCG	3.03	300	iPc	46	47.11	-0.4	
PAX	3.05	11	ePc	46	48.32	0.5	
RSO	3.05	282	iPc	46	47.38	-0.5	
RS2	3.05	282	iPc	46	47.31	-0.6	
RED	3.06	281	iPc	46	47.28	-0.6	
			eS	47	24.29		
RDN	3.06	282	iPc	46	47.12	-0.9	
BGL	3.08	297	ePc	46	47.70	-0.5	
SKT	3.08	312	iPc	46	47.43	-0.7	
HUR	3.31	336	ePc	46	51.99	0.6	
THY	3.47	7	eP	46	52.89	-0.8	
AUI	3.47	262	eP	46	54.83	1.2	
BCPM	3.56	88	eP	46	54.03	-0.9	
YKU	3.56	94	eP	46	57.44	2.6	
RND	3.58	344	ePc	46	55.85	0.6	
PNL	3.71	92	eP	46	55.80	-1.2	
TMW	3.79	26	ePc	46	58.63	0.5	
DDM	3.83	6	ePc	46	59.67	0.9	
TRF	3.87	335	eP	46	59.56	0.1	
DOT	3.88	18	ePc	46	59.76	0.3	
MCK	3.90	345	ePc	47	00.50	0.7	
MCNL	3.96	262	eP	47	01.63	1.0	
HQN	4.00	94	ePd	46	59.56	-1.7	
BWN	4.39	344	ePc	47	06.54	-0.2	
HDA	4.43	359	ePc	47	06.79	-0.6	
SVW	4.54	28B	eP	47	07.10	-1.8	
WRH	4.54	352	ePc	47	08.46	-0.4	
CCB	4.70	354	iPc	47	10.39	-0.7	
NEA	4.73	348	ePc	47	10.84	-0.7	
FBA	4.95	355	ePd	47	14.50	-0.2	
GLM	5.03	357	ePc	47	14.59	-1.2	
TTA	5.35	307	eP	47	18.90	-1.4	
FYU	6.63	5	ePc	47	36.90	-1.4	
SIT	6.65	111	eP	47	37.20	-1.3	
IMA	6.87	336	ePc	47	41.10	-0.7	
INK	10.11	29	P	48	25.00	-1.5	
	0.8s		2.10nm			4.4mb	
LON	19.75	121	eP	50	30.00	-0.4	
NEW	20.73	111	eP	50	42.00	1.4	
	0.8s		3.13nm			3.7mb	
SES	22.24	100	eP	50	57.00	1.2	
DAG	39.64	17	eP	53	31.10	0.9	
NB2	58.10	12	P	55	51.50	-1.1	
	0.7s		0.90nm			3.9mb	
HFS	59.24	11	eP	55	59.20	-1.3	
	0.4s		1.10nm			4.3mb	
	S.D. = 0.9		on 82 of 82 obs.				

MAR 25, 1991 18h 02m 41.50± 0.20s
39.887 N ± 3.7km 113.923 E ± 3.4km
DEPTH = 10.0km (geophysicist)
5.1mb (42 obs.) 5.5Msz (4 obs.)
NORTHEASTERN CHINA (658)
ML 5.5 (BJI). One hundred thirty-one people injured and 1,328 houses damaged in the Datong area.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 21C
Centroid Location:
Origin Time 18:02:44.1 0.7
Lat 40.10N 0.07 Lon 113.34E 0.09
Dep 15.0 FIX Half-duration 2.5
Moment Tensor; Scale 10**17 Nm
Mrr=-0.34 0.08 Mtt= 0.98 0.06
Mff=-0.64 0.09 Mrt= 0.33 0.21
Mrf= 0.20 0.25 Mtf= 1.37 0.09
Principal Axes:

T	Val= 1.83	Plg=10	Azm=330
N	-0.41	80	154
P	-1.42	1	60

Best Double Couple:Mo=1.6**17
NP1:Strike=106 Dip=82 Slip= 7
NP2: 15 83 172

BJI	1.74	84	Pgd	03	13.00	1.1	
			Sg	03	37.00		
HHC	2.04	299	Pnc	03	15.30	-1.1	
			Pg	03	18.00		
			Sn	03	42.20		
			Sg	03	44.00		
TIY	2.46	209	Pn	03	23.60	1.2	
			Pg	03	25.80		
			Sg	03	57.00		
BTO	3.07	285	ePn	03	31.00	-0.1	
			Pg	03	35.30		
			Sg	04	15.10		
TIA	4.46	144	ePn	03	49.80	-0.8	
	Z 15s		27.30um				
			ePg	04	02.70		
			Sg	04	59.80		
DL2	6.05	97	Pn	04	13.00	-0.1	
	N 11s		32.30um				
	E 10s		19.10um				
XAN	7.08	216	Pnc	04	26.20	-1.5	
			Pg	04	46.20		
			Sn	05	50.50		
			Sg	06	19.20		
SNY	7.57	72	Pn	04	33.00	-1.5	
	Z 14s		40.70um				
	E 12s		27.40um				
			Pg	04	59.20		
			Sg	06	38.00		
NJ2	8.78	151	Pd	04	51.00	-0.4	
	Z 14s		12.10um				
	E 10s		10.80um				
			S	06	32.00		
LZH	8.81	248	eP	04	49.50	-2.5	
	5.0s		580.00nm			6.2mb X	
	Z 22s		28.40um			3.9MszX	
			pP	04	52.20		
			sP	04	53.60		
			S	06	29.50		
WHN	9.33	178	Pd	04	59.00	0.1	
	Z 12s		10.80um				
	E 14s		79.40um				
			sP	05	06.70		
CN2	9.45	62	eP	05	02.00	1.4	
	Z 12s		39.60um				
			pP	05	08.00		
			S	06	51.00		
SSE	10.58	144	eP	05	16.50	0.4	
	8.0s		890.00nm			6.2mb X	
	Z 19s		16.30um			4.9Msz	
	E 10s		5.12um				
			sP	05	23.80		
			S	07	22.00		
GTA	10.89	272	iPc	05	17.40	-3.2X	
	Z 10s		35.80um				
	N 11s		44.80um				
			S	07	20.00		
CD2	12.20	226	P	05	36.80	-1.4	
	1.6s		500.00nm			6.5mb X	
	Z 13s		20.90um			3.8Msz	
			S	07	52.00		
MDJ	12.53	63	eP	05	43.00	0.4	
	6.0s		600.00nm			6.0mb X	
	Z 14s		22.60um			5.4MszX	
			S	08	10.00		
GYA	14.70	207	iPd	06	10.40	-1.0	
	Z 16s		14.20um				
	N 10s		29.40um				
	E 10s		44.70um				
			sP	06	19.00		
			S	08	59.00		
			SS	09	17.00		
SHNJ	14.88	107	eP	06	12.80	-0.8	
OZH	15.41	164	P	06	20.00	-0.5	
	Z 12s		21.70um				
	N 12s		21.60um				
KUMJ	15.48	113	eP	06	22.20	0.8	
ANP	15.99	154	eP	06	36.00	7.9X	
			eS	10	42.00		
KAGJ	16.29	117	eP	06	26.90	-5.0X	
GZH	16.76	182	P	06	39.00	1.2	
	Z 10s		16.50um				
			S	09	44.00		
TKSJ	17.12	104	eP	06	46.00	3.6X	
KMI	17.46	216	eP	06	46.50	-0.4	
	3.0s		1600.00nm			5.6mb	
HKC	17.53	179	eP	06	47.60	0.1	
			eS	10	16.00		
TSRJ	17.98	97	P	06	57.00	4.0X	
WKYJ	18.18	101	P	06	59.10	3.5X	
MTMJ	19.03	92	P	07	07.80	1.7	
MAT	19.36	92	iPc	07	09.90	-0.2	
	1.1s		46.84nm			4.7mb	
			eS	10	51.00		
NIIJ	19.77	90	P	07	16.00	1.4	
WMO	19.90	290	P	07	15.50	-0.5	
	6.0s		1600.00nm			5.5mb X	
			S	10	55.50		
CHJJ	20.11	93	eP	07	21.50	3.3X	
YAMJ	20.34	86	P	07	19.90	-0.7	
OIZ	21.08	191	P	07	28.40	0.1	
	N 11s		12.20um				
	E 11s		31.10um				
			eS	11	18.00		
LSA	21.23	248	eP	07	30.10	-0.2	

	Z	14s	21.40um			5.7MszX
	N	10s	7.60um			
OFUJ		21.40	83 eP	07	28.80	-2.6X
ASAJ		21.70	69 eP	07	36.60	2.2
PIP		22.25	163 eP	07	43.00	2.9X
SZP		22.97	164 eP	07	51.00	3.9X
CVP		23.14	161 eP	07	52.00	3.2X
KUSJ		23.22	72 P	07	50.00	0.6
BAG		24.10	164 eP	08	01.60	3.3X
			eS	12	22.00	
CHG		24.66	216 eP	08	04.00	0.4
		1.0s	86.25nm			5.4mb
			eS	12	28.00	
LOE		24.77	209 eP	08	07.80	3.1X
			e	15	58.20	
BDT		26.02	214 eP	08	15.90	-0.5
		0.9s	41.50nm			5.1mb
KKN		26.56	252 P	08	19.00	-2.6X
NST		26.96	210 eP	08	31.50	6.4X
KSH		29.07	282 P	08	47.00	2.9
	N	11s	6.30um			
	E	10s	22.90um			
			S	13	30.00	
NNT		29.94	209 eP	08	47.20	-4.8X
NDI		32.12	261 eP	09	14.00	2.9X
			eS	14	24.00	
SNG		34.69	204 eP	09	35.00	1.6
			eS	15	08.70	
GUA		37.81	125 eP	10	00.50	0.7
		0.7s	43.84nm			5.3mb
HYB		37.91	244 eP	10	00.00	-0.7
		1.0s	50.00nm			5.2mb
OUE		39.27	271 eP	10	29.00	16.7X
PSI		39.44	204 ePc	10	16.20	2.7
GBA		41.34	241 Pc	10	27.60	-1.5
		0.8s	12.90nm			4.7mb
KOD		43.79	238 eP	10	50.00	0.5
ANM		50.97	33 eP	11	44.10	-0.7
TAB		51.42	291 eP	11	49.00	0.2
SOD		52.91	331 iP	11	58.90	-0.6
KAF		54.64	325 eP	12	12.40	0.2
		0.9s	7.60nm			4.7mb
IMA		55.25	30 P	12	15.00	-1.8
TTA		55.42	34 P	12	17.00	-1.0
		0.8s	9.48nm			4.9mb
NUR		55.95	323 eP	12	21.60	-0.1
		1.0s	23.20nm			5.2mb
SVW		56.26	36 ePc	12	24.50	0.4
RSO		57.81	36 P	12	34.70	-0.6
FBA		57.97	30 P	12	35.00	-1.0
		0.8s	56.90nm			5.7mb
PMR		58.91	34 P	12	40.00	-2.6
		0.8s	27.59nm			5.4mb
SLKM		58.92	35 P	12	43.00	0.2
MBC		59.33	13 eP	12	46.50	1.1
		1.0s	29.00nm			5.4mb
TOA		59.91	32 eP	12	49.90	0.3
BBTK		60.09	299 eP	12	52.00	0.7
KLU		60.31	33 P	12	50.60	-1.8
HFS		61.01	326 eP	12	54.20	-2.9X
		1.3s	22.10nm			5.1mb
	Z	17s	2.39um			5.4MszX
			LR	38	18.00	
INK		61.10	23 ePd	12	55.30	-2.3
HRI		61.27	291 eP	12	58.00	-1.3
NB2		61.60	327 P	12	58.60	-2.6
		1.1s	15.70nm			5.1mb
MLR		61.77	307 eP	13	07.00	4.4X
MML		61.93	290 eP	13	03.00	-0.8
BALM		62.03	32 P	13	02.80	-1.3
CMP		62.43	307 ePc	13	09.00	2.1
WB2		62.50	158 iPc	13	06.70	-0.8
		0.7s	18.50nm			5.4mb
KRA		63.01	314 eP	13	10.20	-0.4
PRNI		63.33	288 eP	13	12.00	-1.0
KSP		64.58	316 eP	13	20.00	-0.9
QIS		64.73	153 eP	13	21.00	-1.1
SRO		65.09	312 iP	13	26.00	1.7
ZST		65.57	313 eP	13	29.70	2.4
BRG		65.81	317 iPc	13	28.10	-0.7
		1.4s	24.00nm			5.2mb
ASPA		65.92	160 eP	13	29.20	-0.5
		0.9s	12.50nm			5.1mb
			i	15	20.80	
VKA		65.97	314 eP	13	30.00	0.1
		2.3s	120.00nm			5.7mb
	Z	12s	2.20um			5.6MszX

			LR	44	25.00	
PRU		65.99	316 Pc	13	32.20	2.2
		1.2s	14.90nm			5.1mb
	Z	14s	4.70um			5.8MszX
	N	17s	5.50um			
	E	16s	3.20um			
VAY		66.02	304 eP	13	25.60	-4.7X
CLL		66.06	318 eP	13	30.00	-0.4
		1.7s	29.00nm			5.2mb
			eSg	46	27.00	
SKO		66.38	306 eP	13	31.50	-1.1
			i	13	49.00	
KHC		66.99	315 P	13	37.30	0.8
	Z	14s	5.50um			5.9MszX
	N	14s	2.20um			
	E	14s	3.60um			
MOX		67.16	318 eP	13	38.50	1.0
GRF		67.92	317 eP	13	43.00	0.7
KBA		68.30	314 eP	13	44.00	-0.9
		0.9s	11.50nm			5.1mb
			ic	13	45.40	
			e	15	24.00	
CDF		70.76	317 eP	14	00.50	0.7
		1.1s	31.75nm			5.4mb
YKA		70.78	22 eP	13	56.60	-3.0X
		0.6s	6.50nm			4.9mb
BSF		71.38	317 eP	14	03.80	0.2
		1.2s	17.85nm			5.1mb
HAU		71.50	318 eP	14	04.70	0.5
	Z	19s	5.00um			5.8Msz
LPL		72.88	315 eP	14	13.60	0.9
		1.0s	20.00nm			5.2mb
LPG		72.89	315 eP	14	13.60	0.8
		1.1s	26.85nm			5.2mb
LOR		73.27	318 eP	14	16.00	1.4
		1.0s	13.00nm			5.0mb
	Z	19s	3.75um			5.7Msz
LBF		73.39	318 eP	14	16.80	1.4
		1.0s	12.00nm			4.9mb
SBF		73.56	314 eP	14	15.60	-0.8
		1.0s	10.00nm			4.8mb
SMF		73.68	318 eP	14	17.50	0.4
		1.2s	25.30nm			5.1mb
AVF		73.84	318 eP	14	18.50	0.6
		1.1s	12.20nm			4.9mb
MAF		74.62	318 eP	14	23.40	0.9
CAF		75.76	317 eP	14	30.30	1.2
		0.8s	6.70nm			4.8mb
RJF		75.79	318 eP	14	30.50	1.3
	Z	20s	1.50um			5.3Msz
STK		75.88	156 eP	14	50.10	20.5X
		1.0s	3.40nm			
LPO		76.38	317 eP	14	33.80	1.3
		1.1s	26.85nm			5.2mb
FRB		76.69	1 eP	14	33.00	-0.8
LON		80.45	35 P	14	54.00	-0.8
FFC		80.87	20 eP	14	54.00	-2.8X
		1.0s	15.00nm			5.0mb
NEW		81.26	32 P	14	56.70	-2.3
		0.8s	4.17nm			4.5mb
SES		81.82	27 eP	15	01.00	-0.9
TOL		82.52	317 iPc	15	09.50	3.8X
		1.6s	133.33nm			5.8mb
SCH		85.67	0 eP	15	22.00	0.7
ORV		86.13	40 P	15	23.00	-0.9
CMB		87.86	40 P	15	32.00	-0.4
		1.0s	11.67nm			5.2mb
BW06		88.79	30 P	15	34.70	-2.3
BONR		88.93	39 P	15	40.00	2.1
TNP		89.35	38 P	15	40.00	0.3
		0.9s	5.86nm			4.8mb
RSSD		89.65	26 P	15	40.00	-1.1
		1.0s	10.17nm			5.0mb
SYP		90.80	42 eP	15	30.00	-16.4X
CLC		90.97	40 eP	15	49.00	1.9
BCAO		91.32	277 iPd	15	51.10	2.2
		0.5s	3.00nm			4.9mb
			ic	18	48.40	
SBB		91.76	40 eP	15	51.00	0.2
ALO		96.74	32 e(P)	16	19.00	5.2X
	Z	20s	1.06um			5.3Msz
BLA		102.15	12 Pdiff	16	36.00	-1.7
		0.6s	5.91nm			5.4mb
SIV		155.79	348 ePKP	22	40.00	2.8X
ZOBO		156.40	5 PKP	22	42.00	3.3X
LPB		156.66	5 ePKP	22	42.00	3.2X
CNCB		156.95	5 PKP	22	45.00	5.6X

S.D. = 1.2 on 108 of 139 obs.

• MAR 25, 1991 18h 36m 18.46± 0.87s
3.882 N ±11.6km 73.729 W ±15.1km
DEPTH = 102.6 ± 15.0 km
3.4mb (1 obs.)

COLOMBIA (103)

BOG		0.81	336 iPc	36	39.00	1.2
			iS	36	42.00	
FUO		1.58	360 eP	36	46.50	0.0
BMG		3.23	12 eP	37	08.50	0.1
PSO		4.48	233 eP	37	24.50	-1.2
SDV		5.85	32 ePn	37	44.80	0.4
TOV		7.05	33 eP	38	00.40	-0.4
CEOS		7.41	46 iP	38	04.10	-1.6
ZOBO		20.77	165 P	40	53.00	-0.9
SIV		23.38	148 P	41	21.00	2.1
YKA		65.81	341 eP	46	54.70	0.2
		0.4s	0.20nm			3.4mb
WB2		148.31	237 iPKPd	55	55.90	4.4X
		0.4s	2.90nm			

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

MAR 25, 1991 19h 13m 44.28± 0.40s
6.029 S ± 3.5km 154.467 E ± 4.7km
DEPTH = 401.7 ± 4.7 km
4.9mb (16 obs.)

SOLOMON ISLANDS (193)

RAB		2.93	308 eP	14	48.00	0.5
			iS	15	43.00	
VSG		6.11	122 eP	15	19.00	0.2
			eS	15	45.00	
SVO		6.14	121 P	15	19.00	-0.2
HNR		6.40	122 eP	15	20.00	-2.0
PMG		7.99	245 eP	15	41.00	1.1
		0.9s	151.26nm			5.2mb
CTA		16.09	209 iPc	17	11.00	0.7
		1.0s	124.00nm			5.3mb
			i	17	27.70	
			iS	20	02.00	
DZM		19.71	145 iPc	17	46.90	0.6
			iS	19	16.60	
QIS		20.41	224 iPc	17	54.10	1.0
RMQ		21.06	194 iPd	17	58.80	-0.6
			e	18	20.00	
BRS		21.31	184 iPc	18	02.00	0.3
GUA		21.63	334 eP	18	04.80	0.0
		1.0s	312.00nm			5.7mb
PJG		21.70	334 eP	18	05.30	-0.1
QLP		22.65	204 iPc	18	14.90	0.7
WB2		23.94	233 iPd	18	26.20	0.1
		0.4s	44.70nm			5.3mb
			iS	22	11.50	
			i	24	57.40	
COO		24.54	185 eP	18	31.00	-0.4
ASPA		26.44	226 iPc	18	47.70	-0.9
		0.4s	40.90nm			5.2mb
			iS	22	49.60	
CMS		26.59	197 eP	18	49.00	-0.8
STK		28.40	203 iPc	19	25.00	19.3X
		0.7s	11.50nm			
CNB		29.52	188 ePc	19	16.00	0.4
WARB		33.27	230 iPc	20	07.40	19.6X
FORR		34.96	222 iPc	20	01.30	-0.6
MBL		36.75	242 iPd	20	16.00	-1.0
PPR		38.91	294 iPd	20	36.00	1.2
WKYJ		43.83	337 P	21	14.10	-0.2
TKSJ		44.24	335 eP	21	17.80	0.4
CHJJ		44.30	342 iPd	21	17.50	-0.4
KUMJ		44.46	331 P	21	19.70	0.5
TSRJ		44.85	338 P	21	22.50	0.3
MAT		45.00	341 iPd	21	22.40	-1.1
		0.8s	34.33nm			4.7mb
MTMJ		45.17	341 iPd	21	24.30	-0.6
NIIJ		45.40	343 P	21	26.40	-0.1
YONJ		45.52	336 P	21	27.50	0.0
SHNJ		45.64	333 eP	21	27.90	-0.5
YAMJ		45.98	344 P	21	31.40	0.4
OFUJ		46.42	346 P	21	34.20	-0.1
SSE		48.73	321 Pd	21	52.20	0.1
		1.2s	34.00nm			4.6mb
MRRJ		49.74	347 P	21	59.20	-0.4
NJ2		50.84	320 Pc	22	09.50	1.6
ASAJ		51.04	349 eP	22	08.80	-0.4
WHN		52.89	316 Pc	22	23.00	0.0

25d 19h

TIA	54.68	323	eP	22 34.60	-1.2
MDJ	55.15	339	Pd	22 38.20	-0.8
CN2	56.10	335	P	22 45.10	-0.5
GYA	56.45	307	P	22 48.60	0.1
LOE	57.05	295	iPd	22 52.20	-0.4
NNT	57.45	289	iPc	22 50.30	-5.1X
XAN	58.65	316	Pd	23 02.50	-0.9
CHG	60.01	296	ePd	23 12.90	0.1
	0.9s	13.66nm		4.4mb	
CD2	60.79	310	P	23 17.00	-0.8
	0.6s	50.00nm		5.2mb	
LZH	63.26	315	Pd	23 34.00	0.0
	1.5s	45.00nm		4.9mb	
GTA	67.68	317	Pd	24 02.20	0.5
	1.0s	10.00nm		4.5mb	
LSA	70.30	304	eP	24 18.80	0.6
KKN	74.65	301	P	24 43.00	-0.1
ANM	76.46	17	eP	24 53.60	1.5
SVW	77.30	22	ePd	24 58.20	1.3
WMQ	77.76	317	eP	25 00.50	0.7
TTA	78.31	21	eP	25 03.40	1.1
KOD	78.36	282	eP	25 05.00	1.2
HYB	78.46	289	iPd	25 03.00	-0.9
	1.0s	35.00nm		5.0mb	
GBA	78.89	285	Pc	25 05.30	-0.9
	0.8s	15.40nm		4.8mb	
PMR	80.12	24	eP	25 12.00	0.3
	0.9s	14.60nm		4.7mb	
IMA	81.06	19	ePd	25 17.40	0.6
	0.8s	14.20nm		4.7mb	
TOA	81.59	24	ePd	25 20.80	1.3
NDI	81.78	300	iPd	25 21.00	0.0
FBA	82.41	21	ePd	25 23.20	-0.3
BALM	82.69	26	eP	25 25.20	0.1
INK	89.01	21	ePd	25 55.10	-0.3
QUE	90.85	300	eP	26 04.70	-0.3
TNP	92.35	52	eP	26 13.00	1.3
YKA	95.73	28	eP	26 25.80	-0.5
	0.8s	1.90nm		4.3mb	
KAF	112.40	336	ePKP	31 33.00	-1.3
	0.7s	4.50nm			
NUR	113.94	335	ePKP	31 37.00	-0.4
	0.5s	2.70nm			
HFS	118.42	339	ePKP	31 44.50	-1.4
	0.6s	1.20nm			
NB2	118.62	341	PKP	31 45.50	-0.9
	0.7s	2.50nm			
CLL	124.72	332	iPKP	31 58.50	0.2
	1.0s	11.00nm			
KHC	125.84	329	ePKP	32 01.30	0.6
BCAO	136.09	270	ePKPd	32 13.10	-8.1X
	0.3s	5.00nm			
		ic		32 22.10	
GUD	140.57	334	ePKP	32 32.00	3.3X
EHOR	143.37	333	ePKP	32 32.00	-1.5
EPRU	144.05	332	ePKP	32 34.30	-0.4
EVAL	144.23	334	ePKP	32 34.50	-0.5
EJIF	144.58	331	ePKP	32 35.50	-0.1
BMA	146.13	148	ePKP	32 40.70	2.1
IFR	146.73	328	iPKPc	32 43.00	3.5X
AVE	148.07	330	iPKP	32 46.00	4.6X
BAO	149.05	134	ePKPc	32 44.20	0.7
TIO	149.87	328	iPKPd	32 50.50	6.1X
S.D. = 0.8		on	79 of	87 obs.	

MAR 25, 1991 19h 32m 57.81± 0.73s
17.213 N ± 5.9km 99.818 W ± 6.7km
DEPTH = 53.4 ± 6.2 km
4.6mb (10 obs.)
GUERRERO, MEXICO (59)
Felt in Guerrero and Oaxaca. Felt (IV) in the Mexico City areo.

ACX	0.34	186	iPc	33 05.00	-2.7
			iS	33 11.00	
III	1.20	16	iPd	33 19.00	0.2
			iS	33 36.50	
PPM	2.16	31	iPd	33 32.50	-0.1
CRX	2.19	3	iP	33 33.75	1.1
MEX	2.19	16	iP	33 33.00	0.3
			(S)	34 06.50	
UNM	2.19	16	iP	33 34.00	1.3
			iS	34 02.50	
IIT	2.30	38	iPd	33 34.00	-0.3
			(S)	34 08.50	
MRX	2.80	332	eP	33 42.50	1.4
			iS	34 18.50	
IISM	2.92	52	iP	33 43.00	0.2
			iS	34 20.50	
OXX	2.96	92	iPd	33 44.75	1.1
			(S)	34 23.50	
LVVM	4.07	51	eP	34 01.50	2.5X
CGX	4.25	306	eP	34 04.00	2.2X
			(S)	34 55.50	
SCX	6.89	93	eP	34 40.00	1.3
TPX	7.62	106	eP	34 52.00	3.2X
MZX	8.60	315	(P)	35 14.00	11.7X
VNM	8.62	355	(P)	35 46.50	43.9X
MEO	17.53	3	eP	37 01.30	1.2
UYO	17.55	15	iPd	36 59.30	-1.0
ALO	18.63	343	ePd	37 13.60	-0.1
	1.2s	18.75nm		4.2mb	
ANMO	18.63	343	P	37 13.60	-0.1
	1.0s	41.25nm		4.6mb	
OLY	19.67	21	P	37 23.00	-2.3
GLA	20.78	322	P	37 37.00	0.2
ELC	22.07	23	P	37 47.80	-1.9
PLM	22.21	320	P	37 53.00	1.6
FVM	22.28	20	P	37 49.80	-1.9
GOL	22.92	349	P	37 57.80	-0.6
	0.8s	5.95nm		4.1mb	
TKL	23.26	35	P	38 00.20	-1.2
JSC	23.77	41	P	38 06.50	0.2
ABL	24.67	319	P	38 14.00	-1.3
BCH	25.43	319	P	38 23.00	0.7
TNP	25.79	327	P	38 26.60	0.8
	0.8s	3.43nm		3.9mb	
BONR	26.27	326	P	38 31.50	1.2
BW06	26.80	344	P	38 34.00	-1.0
	0.8s	13.10nm		4.6mb	
FFC	37.48	358	ePc	40 07.20	-0.6
	0.9s	18.00nm		5.0mb	
SCH	45.28	26	eP	41 11.00	-0.8
ZOBO	45.64	135	P	41 16.00	0.3
LPB	45.84	135	P	41 19.00	1.8
CNCB	46.12	135	P	41 20.00	0.5
YKA	46.40	351	eP	41 19.30	-1.2
	0.8s	5.20nm		4.5mb	
FRB	51.19	17	eP	41 58.00	0.5
INK	55.34	345	ePd	42 28.30	0.1
FBA	57.39	338	P	42 43.30	0.4
	0.9s	6.25nm		4.7mb	
TTA	59.68	334	P	42 58.20	-0.7
	0.9s	7.29nm		4.8mb	
MBC	59.92	355	ePc	43 01.30	1.0
	0.5s	4.00nm		4.8mb	
PDCR	66.83	112	eP	43 45.80	-0.9
			e	43 57.40	
DAG	71.31	14	iPd	44 24.50	11.2X
	0.2s	33.33nm			
NB2	84.84	27	P	45 41.00	13.2X
	0.9s	4.30nm			
STK	122.94	243	ePKP	52 10.50	20.4X
	0.8s	2.90nm			
WB2	128.76	258	iPKPd	52 02.50	0.8
	0.5s	10.00nm			
HYB	145.55	3	ePKPc	52 33.00	0.4
	1.0s	25.00nm			
			e	52 44.50	
GBA	149.26	5	PKPc	52 41.40	2.9X
	0.7s	4.50nm			
S.D. = 1.1		on	42 of	51 obs.	

? MAR 25, 1991 19h 34m 18.36± 0.92s
14.598 N ± 8.2km 60.946 W ± 8.9km
DEPTH = 10.0km (geophysicist)
WINDWARD ISLANDS (95)

MVM	0.07	131	iPc	34 20.59	-0.1
			S	34 22.48	
BIM	0.15	236	ePc	34 21.87	0.1
			S	34 24.57	
CRM	0.16	11	eP	34 22.10	0.1
FDF	0.24	304	eP	34 23.36	-0.1
S.D. = 0.2		on	4 of	4 obs.	

• MAR 25, 1991 20h 01m 30.37± 0.96s
39.845 N ±11.7km 113.860 E ± 9.0km
DEPTH = 10.0km (geophysicist)
3.4mb (1 obs.)
NORTHEASTERN CHINA (658)

BJI	1.79	83	Pg	02 01.50	0.0
			Sg	02 26.00	
HHC	2.02	300	Pn	02 04.80	-0.2
			Pg	02 06.10	
			Sg	02 32.40	
TIY	2.40	208	ePn	02 11.30	0.9
			iPgd	02 14.00	
			Sn	02 41.40	
			Sg	02 44.70	
BTO	3.04	286	ePn	02 23.60	4.2X
			ePg	02 24.60	
			Sg	03 01.10	
TIA	4.45	144	ePg	02 50.70	11.3X
			Sg	03 47.70	
XAN	7.01	216	Pn	03 14.60	-1.1
			Pg	03 39.10	
LZH	8.75	248	eP	04 06.50	26.4X
	1.5s	20.00nm			
			pP	04 09.50	
			Lg	06 05.00	
GTA	10.84	272	eP	04 09.20	0.4
			eS	06 18.00	
LSA	21.17	248	eP	06 20.00	1.4X
YKA	70.84	22	eP	12 44.70	-4.1X
	0.6s	0.20nm		3.4mb	
S.D. = 1.0		on	5 of	10 obs.	

? MAR 25, 1991 20h 52m 55.22± 2.97s
15.515 S ±41.5km 70.361 W ±11.9km
DEPTH = 33.0km (normal)
SOUTHERN PERU (117)

ARE	1.44	229	iPc	53 19.50	0.0
			iS	53 38.00	
ZOBO	2.28	110	iPc	53 36.10	4.3X
LPB	2.40	115	P	53 34.10	0.7
	1.0s	920.00nm			
			S	54 02.00	
CNCB	2.62	120	iPc	53 36.20	-0.5
CCH	4.45	115	P	54 02.50	0.0
			i	55 01.50	
SIV	8.96	94	P	55 05.30	-0.1
S.D. = 0.6		on	5 of	6 obs.	

• MAR 25, 1991 23h 38m 56.12± 2.58s
24.492 N ±16.4km 123.854 E ±21.8km
DEPTH = 12.2 ± 9.3 km
3.9mb (2 obs.)
SOUTHWESTERN RYUKYU ISLANDS (246)
Felt (IV JMA) on Iriamote-jima.

TWC	1.83	274	eP	39 28.30	0.7
			eS	39 48.70	
TWD	2.10	259	eP	39 31.90	0.4
TWF1	2.60	245	ePd	39 38.40	-0.3
TWG	3.05	237	iPd	39 44.20	-0.7
SSE	6.99	341	eP	40 40.00	-0.7
NB2	79.08	333	P	51 01.60	0.0
	0.5s	0.50nm		3.8mb	
YKA	81.73	24	eP	51 16.10	0.5
	0.7s	1.00nm		4.0mb	
S.D. = 0.8		on	7 of	7 obs.	

? MAR 25, 1991 23h 44m 55.54± 8.92s
4.861 S ±61.3km 147.791 E ±55.5km
DEPTH = 89.3 ± 28.5 km
5.1mb (1 obs.)
BISMARCK SEA (203)

YYYY	2.28	233	iPc	45 32.10	0.0
PMG	4.56	188	iPc	46 03.50	0.0
QIS	17.51	206	eP	48 56.00	0.5
RMQ	21.53	178	iPc	49 45.10	6.1X
ASPA	23.00	214	iPd	49 52.40	-1.0
	0.4s	34.00nm		5.1mb	
			iS	53 43.00	
MBL	31.60	237	iPc	51 12.00	-0.1
COOL	36.03	221	eP	51 50.20	0.1
KLB	38.73	223	iPd	52 13.00	0.2
	0.3s	18.00nm		5.4mb X	
BAL	38.89	225	eP	52 14.40	0.4
MUN	40.02	224	eP	52 23.50	0.1
TUL	114.14	53	e(PKP)	03 45.10	18.5X
S.D. = 0.5		on	9 of	11 obs.	

MAR 25, 1991 23h 51m 59.96± 0.71s
2.135 N ± 3.8km 79.080 W ± 6.6km
DEPTH = 41.2 ± 6.6 km

5.0mb (19 obs.) 4.5Msz (2 obs.)
SOUTH OF PANAMA (83)

COTA	1.94	157	P	52	30.80	-0.7
PSO	1.99	118	iPc	52	33.50	1.4
YANA	2.29	167	Pd	52	35.80	-0.8
CAYA	2.32	152	P	52	37.80	0.8
GGP	2.34	168	iP+	52	36.60	-0.9
OUR	2.36	166	P+	52	37.00	-0.5
OTO	2.39	167	P+	52	37.60	-0.3
VC1	2.84	166	eP	52	45.30	1.0
QUIL	2.88	177	P+	52	37.60	-7.2X
ANGL	2.94	149	iP	52	31.10	-14.7X
TUNG	3.59	170	eP	52	51.50	-3.4X
BOG	5.58	64	eP	53	24.00	0.9
			eS	55	43.00	
FUQ	6.28	58	eP	53	37.50	4.7X
UPA	6.82	356	ePc	53	38.50	-1.6
Z	16s		2.02um			
BMG	7.74	50	eP	53	53.50	0.4
SDV	10.75	51	eP	54	41.30	6.6X
TOV	11.96	50	eP	54	50.30	-0.6
TPP	19.31	64	eP	56	26.31	1.7
TRN	19.48	64	eP	56	25.56	-1.0
TBH	19.72	64	eP	56	29.89	0.7
ARE	19.94	158	eP	56	33.00	1.2
ZOBO	21.25	150	P	56	44.00	-1.6
	1.0s		97.50nm		5.1mb	
Z	18s		1.36um		4.4Msz	
			S	00	10.40	
			LR	04	20.00	
SLB	21.28	56	eP	56	45.66	0.3
LPB	21.49	150	Pc	56	46.10	-1.7
	1.0s		220.00nm		5.5mb	
Z	18s		2.06um		4.6Msz	
			e	03	34.00	
			LR	05	32.00	
CNCB	21.78	150	P	56	51.20	0.3
SIV	25.32	136	P	57	24.40	-0.3
BLA	34.93	358	eP	58	50.50	0.5
BAO	35.45	121	e(P)	58	36.00	-18.8X
ROCH	35.74	168	eP	58	58.50	1.3
PEL	35.97	168	iP	59	00.00	1.1
	1.0s		40.00nm		5.3mb	
PCH	36.47	168	eP	59	04.50	1.3
LNV	36.62	169	eP	59	05.00	0.8
FVM	37.17	345	eP	59	08.90	0.0
	1.0s		22.00nm		5.0mb	
SOB1	39.68	107	eP	59	29.40	-0.9
VAO	40.04	130	eP	59	31.70	-1.5
ALQ	41.40	325	eP	59	45.20	0.9
	1.0s		20.00nm		4.8mb	
PDCR	42.27	111	eP	59	49.40	-2.0
GAC	43.51	4	eP	00	01.50	0.5
GOL	44.38	331	eP	00	11.00	2.4
	1.2s		26.23nm		4.9mb	
RSSD	47.30	336	eP	00	32.30	0.6
	1.0s		28.20nm		5.2mb	
BW06	48.76	330	eP	00	42.00	-1.1
	1.2s		11.99nm		4.8mb	
SCH	53.47	9	eP	01	18.00	-0.2
SES	55.18	336	eP	01	31.00	0.1
FFC	55.66	344	eP	01	33.00	-1.2
	1.0s		12.00nm		4.9mb	
PNT	58.33	330	eP	01	54.00	0.8
FRB	61.96	5	ePd	02	15.60	-2.2
YKA	65.77	343	eP	02	41.20	-1.5
	0.6s		6.60nm		4.9mb	
LIC	73.92	84	P	03	32.98	-0.4
TIC	73.93	84	P	03	32.94	-0.5
	0.8s		12.50nm		4.9mb	
KIC	74.20	84	Pc	03	34.80	-0.2
	0.7s		15.00nm		5.1mb	
MBC	77.39	351	eP	03	51.50	-0.4
	1.2s		37.00nm		5.3mb	
			pP	04	19.00	107kmX
DAG	81.37	12	eP	04	13.00	-0.4
	0.5s		7.04nm		4.9mb	
AVF	83.26	43	eP	04	24.10	0.4
	1.0s		7.00nm		4.7mb	
SMF	83.59	43	eP	04	24.20	-1.2
LPL	85.55	45	eP	04	36.30	0.8
	1.1s		7.35nm		4.8mb	
BSF	85.65	42	eP	04	36.40	0.5
CDF	85.99	42	eP	04	38.30	0.8
NB2	88.29	29	P	04	49.40	1.1
	0.9s		5.70nm		4.9mb	

HFS	89.55	30	eP	04	54.30	0.1
	0.5s		1.40nm		4.5mb	
BCAO	97.42	85	iPd	05	32.10	0.8
	0.7s		6.00nm		5.2mb	
ASPA	141.57	233	ePKP	11	28.80	-0.7
	1.0s		4.70nm			
HYB	150.61	48	ePKP	11	45.00	0.6
GBA	151.95	55	PKPc	11	46.20	-0.2
	0.3s		0.80nm			

S.D. = 1.0 on 57 of 63 obs.

MAR 25, 1991 23h 53m 06.27± 0.61s
42.569 N ± 4.6km 13.133 E ± 5.7km
DEPTH = 5.0km (geophysicist)
CENTRAL ITALY (381)
MD 2.0 (SSO).

AOU	0.29	137	P	53	12.30	0.1
			eSg	53	16.70	
MNS	0.38	241	P	53	14.00	0.0
			eSg	53	19.80	
ALP	0.39	57	e(Pg)	53	14.26	0.2
			iSg	53	19.91	
ASS	0.61	325	P	53	18.40	-0.1
			eSg	53	27.70	
CIO	0.63	1	e(Pg)	53	18.05	-0.7
			eSg	53	27.82	
ARV	0.94	351	P	53	25.40	0.7
			eSg	53	39.10	
SDI	1.00	149	P	53	25.50	-0.2

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

? MAR 26, 1991 00h 25m 38.76± 1.06s
39.927 N ±12.8km 113.888 E ±10.2km
DEPTH = 10.0km (geophysicist)
NORTHEASTERN CHINA (658)
ML 3.2 (BJI).

BJI	1.76	86	ePn	26	09.50	0.0
			ePg	26	11.00	
			eSg	26	34.50	
HHC	2.00	298	Pn	26	13.00	-0.1
			Pg	26	14.40	
			Sn	26	39.60	
			Sg	26	42.00	
TIY	2.49	208	Pn	26	19.20	-0.8
			Pgd	26	22.40	
			Sg	26	53.20	
TIA	4.50	144	ePg	27	00.00	11.4X
XAN	7.09	216	ePn	27	26.00	0.8

S.D. = 1.1 on 4 of 5 obs.

MAR 26, 1991 00h 44m 53.44± 0.28s
43.934 N ± 2.3km 7.393 E ± 2.5km
DEPTH = 5.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
ML 2.6 (LDG), 2.4 (GEN).

AUTN	0.07	22	Pg	44	55.29	0.0
			Sg	44	56.85	
AURF	0.07	225	Pg	44	54.96	-0.2
			Sg	44	56.50	
SBF	0.08	157	Pg	44	55.00	-0.3
SAOF	0.13	66	Pg	44	55.98	-0.2
			Sg	44	58.64	
TOUF	0.13	307	Pg	44	56.50	0.2
MVIF	0.18	258	Pg	44	57.32	0.2
			Sg	45	00.49	
REVF	0.20	185	Pg	44	58.02	0.6
			Sg	45	01.07	
ENR	0.29	4	P	44	59.69	0.3
STV	0.31	351	P	44	59.97	0.2
			S	45	04.38	
IMI	0.36	94	P	45	00.96	0.3
			S	45	05.69	
CALN	0.41	244	Pg	45	01.96	0.3
ROB	0.50	44	P	45	03.35	-0.1
			S	45	10.43	
PZZ	0.61	340	P	45	05.81	0.2
			S	45	13.81	
FIN	0.65	65	P	45	06.22	-0.2
			S	45	14.46	
FRF	0.66	236	Pg	45	06.20	-0.4
			Sg	45	15.00	
LMR	0.88	227	Pg	45	10.60	-0.2
			Sg	45	22.00	
LRG	0.89	238	Pg	45	10.60	-0.3
			Sg	45	22.60	
BHB	0.91	354	P	45	10.13	-1.2
PCP	1.03	53	P	45	14.01	0.7
RRL	1.08	336	P	45	14.92	0.6
CDR	1.21	258	e(Pg)c	45	16.50	0.1
			e(Sg)	45	32.90	
RSP	1.22	355	P	45	14.92	-1.8
LPG	1.63	344	Pg	45	24.00	0.9
LPL	1.65	344	Pg	45	24.00	0.6
PGF	1.82	139	Pn	45	22.60	-3.1X
			Sn	45	44.20	

S.D. = 0.6 on 24 of 25 obs.

MAR 26, 1991 00h 45m 27.29± 0.75s
37.665 N ±10.3km 118.968 W ± 6.8km
DEPTH = 5.0km (geophysicist)
CALIFORNIA-NEVADA BORDER REGION (40)
MD 3.0 (GM).

BONR	0.60	61	eP	45	39.00	-0.4
CMB	1.18	289	eP	45	49.00	-0.8
TNP	1.45	73	eP	45	54.00	-0.4
KVN	1.54	26	eP	45	56.60	0.9
ARN	2.06	262	eP	46	03.60	0.5
BCH	2.63	200	eP	46	11.40	0.1

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

& MAR 26, 1991 01h 20m 25.42s
60.139 N 153.360 W
DEPTH = 144.1km
2.7mb (1 obs.)
SOUTHERN ALASKA (2)
<AEIC>.

RED	0.41	46	iPc	20	45.06	0.7
			eS	21	00.44	
RS2	0.44	42	iPc	20	45.52	-0.8
RSD	0.44	43	iPc	20	45.47	-0.9
NCT	0.48	27	iPc	20	45.58	-0.8
			eS	21	00.67	
RDN	0.48	38	iPc	20	45.66	-0.7
			eS	21	00.90	
REF	0.48	43	iPc	20	45.64	-0.8
RDT	0.64	47	iPc	20	46.35	-0.9
AUH	0.78	183	eP	20	47.59	-0.6
AUE	0.78	180	iPd	20	47.21	-0.9
AUI	0.81	182	eP	20	47.61	-0.7
			eS	21	03.82	
HOM	0.99	118	iPd	20	49.38	-0.4
			eS	21	07.12	
NNL	1.04	94	ePc	20	50.27	0.0
XLV	1.08	129	ePd	20	49.48	-1.1
MCNL	1.08	208	iPd	20	49.45	-1.2
CKL	1.17	25	ePd	20	51.18	-0.5
			eS	21	10.79	
NKA	1.21	59	ePc	20	52.59	0.7
CDD	1.22	187	iPd	20	50.83	-1.2
			eS	21	09.98	
BGL	1.23	22	ePc	20	51.91	-0.2
SPU	1.23	31	iPc	20	51.40	-0.7
CNPM	1.24	119	iPc	20	51.15	-1.0
			eS	21	10.59	
CRP	1.28	27	ePc	20	52.33	-0.4
BRLK	1.30	106	ePc	20	52.19	-0.6
			eS	21	11.71	
NCG	1.40	24	eP	20	53.68	-0.2
SLKM	1.61	75	ePc	20	54.77	-1.3
SYI	1.61	162	ePd	20	54.75	-1.3
SUA	1.85	43	ePc	20	58.08	-0.8
SEW	1.96	89	eP	20	58.50	-1.5
SKT	2.05	25	ePc	21	00.66	-0.6
PMS	2.17	58	ePc	21	01.24	-1.5
KNK	2.72	60	eP	21	06.97	-2.6
KNIM	2.81	83	eP	21	08.48	-2.2
MTU	2.87	91	eP	21	10.05	-1.3
YKA	18.56	66	eP	24	31.20	-2.1
	0.5s		0.20nm		2.7mb	
	33 obs. associated					

& MAR 26, 1991 01h 25m 38.57s
62.823 N 150.052 W
DEPTH = 82.0km
2.6mb (1 obs.)
CENTRAL ALASKA (1)
<AEIC>.

HUR	0.25	51	iPc	25	50.88	-0.1

26d 01h

		S	26 00.28		
CUT	0.43	194 iPc	25 52.02	-0.1	
TRF	0.64	350 ePd	25 54.32	0.1	
		eS	26 06.20		
RND	0.80	42 iPd	25 55.60	-0.2	
		eS	26 08.39		
MCK	1.04	28 ePd	25 58.47	-0.1	
		eS	26 13.68		
SKT	1.09	220 iPd	25 58.70	-0.4	
		eS	26 14.71		
GHO	1.18	153 iPc	26 00.31	0.0	
		eS	26 17.42		
PWA	1.18	176 ePc	26 00.34	0.2	
		iS	26 17.28		
PLRM	1.31	160 ePc	26 01.39	-0.4	
		eS	26 19.30		
PMR	1.31	160 iPc	26 02.30	0.5	
BWN	1.38	11 ePd	26 02.62	-0.2	
		eS	26 21.58		
SUA	1.40	194 iPd	26 03.23	0.0	
		eS	26 23.88		
PMS	1.60	171 ePc	26 05.57	-0.2	
		S	26 26.42		
KNK	1.60	151 ePc	26 05.31	-0.4	
		S	26 27.49		
NCG	1.73	216 iPd	26 07.18	-0.4	
NEA	1.81	13 ePd	26 07.71	-0.8	
CRP	1.85	213 ePd	26 08.89	-0.3	
WRH	1.87	27 iPd	26 08.54	-0.8	
SPU	1.90	211 ePd	26 09.25	-0.5	
BGL	1.91	216 eP	26 09.65	-0.4	
TOA	1.94	110 eP	26 10.90	0.6	
CKL	1.96	214 ePd	26 10.17	-0.4	
THY	2.04	71 eP	26 12.65	1.0	
CCB	2.09	28 iPd	26 11.30	-0.9	
SDG	2.10	96 ePc	26 12.50	0.0	
PAX	2.10	84 ePc	26 12.62	0.0	
HDA	2.11	40 iPd	26 11.75	-0.8	
DDM	2.12	61 ePd	26 12.86	0.0	
NKA	2.16	196 eP	26 14.98	1.7	
RDS	2.18	22 ePd	26 12.74	-0.8	
		eS	26 37.26		
MDM	2.29	20 ePd	26 14.13	-0.9	
		S	26 40.00		
FBA	2.31	25 eP	26 15.10	-0.2	
SLKM	2.33	182 eP	26 15.85	0.3	
GLI	2.40	143 ePc	26 15.05	-1.5	
VZW	2.42	135 eP	26 15.05	-1.8	
VLZ	2.44	132 eP	26 15.38	-1.7	
GLM	2.47	27 ePd	26 16.65	-0.9	
RDT	2.52	207 eP	26 17.55	-0.7	
NCT	2.65	212 eP	26 20.50	0.4	
RDN	2.65	210 eP	26 20.19	0.0	
REF	2.66	210 eP	26 20.27	0.0	
RS2	2.70	210 eP	26 21.25	0.4	
RSO	2.70	210 eP	26 21.12	0.3	
KNIM	2.72	155 eP	26 18.91	-2.0	
TTA	2.73	275 eP	26 20.80	-0.4	
RED	2.74	210 eP	26 21.23	-0.1	
SEW	2.74	174 eP	26 21.33	0.1	
HIN	2.97	144 eP	26 22.92	-1.5	
CVA	3.07	136 eP	26 24.06	-1.7	
SVW	3.14	239 eP	26 26.40	-0.4	
GLB	3.24	113 ePc	26 26.75	-1.5	
SGAM	3.28	133 eP	26 27.60	-1.1	
CNPM	3.36	190 eP	26 29.45	-0.3	
RAGM	3.55	131 eP	26 31.27	-1.1	
IMA	3.62	336 eP	26 32.80	-0.7	
HMT	3.73	129 eP	26 32.74	-2.2	
TGL	4.01	118 eP	26 37.10	-1.8	
BALM	4.06	113 eP	26 37.34	-2.3	
WAX	4.18	122 ePc	26 39.68	-1.6	
CDD	4.28	206 eP	26 41.55	-1.2	
YKA	16.16	75 eP	29 19.60	-2.1	
	0.6s	0.30nm		2.6mb	
	61 obs. associated				

MAR 26, 1991 01h 50m 44.18± 0.65s
37.760 N ± 9.5km 118.775 W ± 7.4km
DEPTH = 5.0km (geophysicist)
CALIFORNIA-NEVADA BORDER REGION (40)
ML 2.7 (GS).

BONR	0.42	62 eP	50 53.50	0.8	
FRI	1.07	224 ePc	51 03.10	-1.6	
		iS	51 14.80		
TNP	1.27	75 eP	51 08.00	-0.4	
CMB	1.30	283 ePc	51 09.10	0.3	
		eS	51 25.30		
KVN	1.39	22 eP	51 09.70	-0.8	
LLA	2.07	237 ePd	51 20.70	0.6	
PRI	2.21	224 eP	51 23.20	1.0	
ARN	2.23	260 eP	51 24.40	2.0X	
BCH	2.78	203 eP	51 30.40	0.1	
	S.D. = 1.0	on	8 of 9 obs.		

MAR 26, 1991 01h 54m 43.43± 0.69s
43.183 N ± 5.9km 12.801 E ± 6.0km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)
MD 2.3 (SSO).

ASS	0.15	222 Pc	54 47.70	0.7	
		eSg	54 49.90		
CIO	0.25	87 iPg	54 49.21	0.4	
		iSg	54 52.95		
ARV	0.33	18 P	54 50.10	-0.2	
		eSg	54 55.50		
ALP	0.70	125 e(Pg)	54 57.28	0.0	
		iSg	55 08.38		
CRE	0.76	306 P	54 58.30	-0.1	
		eSg	55 08.30		
MNS	0.80	186 P	54 58.30	-0.8	
		eSg	55 10.20		
	S.D. = 0.6	on	6 of 6 obs.		

% MAR 26, 1991 02h 53m 52.02± 1.59s
37.950 N ±11.9km 27.497 E ±18.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZM	0.48	338 iPg	54 02.20	0.3	
		eSg	54 08.50		
CIN	0.58	127 eP	54 03.00	-0.8	
YER	1.03	142 ePn	54 11.90	0.5	
KHL	1.64	76 ePn	54 22.00	0.9	
DST	1.87	28 ePn	54 27.30	2.9X	
EZN	2.08	334 ePn	54 32.00	4.6X	
KCT	2.39	16 ePn	54 31.00	-0.9	
YLV	2.99	29 ePn	54 46.00	5.6X	
	S.D. = 1.1	on	5 of 8 obs.		

? MAR 26, 1991 03h 00m 02.82± 6.21s
37.529 N ±28.3km 26.833 E ±45.0km
DEPTH = 5.0km (geophysicist)
DODECANESE ISLANDS (369)

IZM	0.93	21 iPg	00 21.00	-0.1	
		eSg	00 27.00		
CIN	1.00	86 ePg	00 22.00	-0.2	
		iSg	00 29.00		
YER	1.22	108 iPn	00 26.00	0.0	
		iSg	00 40.50		
KHL	2.27	69 ePn	00 42.00	0.3	
DST	2.51	34 ePn	00 46.30	1.4X	
KCT	2.96	23 ePn	00 51.40	0.0	
	S.D. = 0.3	on	5 of 6 obs.		

MAR 26, 1991 03h 15m 01.76± 0.61s
41.098 N ± 7.0km 22.457 E ± 4.6km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.9 (SKO), MD 1.9 (THE).

VAY	0.24	21 iPg	15 07.00	0.1	
		iSg	15 10.40		
KNT	0.34	79 iPd	15 09.00	0.2	
		iS	15 14.00		
THE	0.60	140 eP	15 13.50	-0.4	
		eS	15 22.00		
SOH	0.73	112 eP	15 16.40	0.2	
		eS	16 27.00		
SRS	0.86	88 eP	15 18.30	0.0	
FNA	0.88	249 eP	15 18.00	-0.6	
SKO	1.16	319 ePn	15 22.50	-0.9	
OHR	1.25	271 ePg	15 26.50	1.4	
		eSg	15 41.70		
	S.D. = 0.8	on	8 of 8 obs.		

? MAR 26, 1991 03h 19m 33.82± 7.76s
32.208 S ±48.2km 72.018 W ±35.5km
DEPTH = 10.0km (geophysicist)
OFF COAST OF CENTRAL CHILE (134)

ROCH	1.14	132 iP	19 55.00	-0.3	
		iS	20 05.10		
JACH	1.29	112 iP	19 58.20	0.3	
		iS	20 11.70		
LCCH	1.32	163 iP	19 58.70	0.5	
		iS	20 10.50		
SAN	1.69	138 ePc	20 03.30	-0.2	
		iS	20 20.00		
TACH	1.70	148 iPc	20 03.60	-0.1	
		iS	20 19.70		
LNV	1.82	164 eP	20 05.00	-0.3	
		i	20 23.20		
		i	20 24.50		
PCH	1.89	138 iPc	20 06.40	-0.2	
		iS	20 26.70		
	S.D. = 0.4	on	7 of 7 obs.		

MAR 26, 1991 03h 58m 23.26± 0.15s
21.704 N ± 2.6km 121.789 E ± 3.3km
DEPTH = 17.7km (21 depth phases)
5.8mb (76 obs.) 6.3Msz (23 obs.)
TAIWAN REGION (243)

Mo=4.0*10**18 Nm (PPT). Felt (V JMA) at Lanyu; (III JMA) at Taitung; (II JMA) at Hengchun and Alishon; (I JMA) at Koohsiung.

FAULT PLANE SOLUTION: P-Woves
NP1:Strike=248 Dip=85 Slip=-169
NP2: 157 79 -5
Principal Axes:
T Plg= 4 Azm= 22
P 11 113

Comment: The focal mechanism is moderately well controlled and corresponds to strike-slip faulting with a small normal component. The preferred foult plane is not determined.

MOMENT TENSOR SOLUTION
Dep 27 No. of sta: 7
Moment Tensor; Scale 10**18 Nm
Mrr= 0.01 Mtt= 5.24
Mff=-5.25 Mrt= 0.58
Mrf=-0.36 Mtf=-5.03
Principal axes:
T Val= 7.33 Plg= 5 Azm= 22
N -0.05 85 192
P -7.27 1 292
Best Double Cauple:Mo=7.3*10**18
NP1:Strike= 67 Dip=86 Slip= 177
NP2: 157 87 4

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 37C M.W.: 15S, 35C
Centroid Locatian:
Origin Time 03:58:27.6 0.2
Lat 22.15N 0.02 Lon 121.65E 0.03
Dep 15.0 FIX Half-duration 5.2
Moment Tensor; Scale 10**18 Nm
Mrr=-0.29 0.05 Mtt= 2.12 0.05
Mff=-1.83 0.05 Mrt= 0.70 0.16
Mrf= 0.62 0.12 Mtf=-2.08 0.05
Principol Axes:
T Val= 3.07 Plg= 7 Azm= 22
N -0.07 71 271
P -2.99 18 114
Best Double Couple:Mo=3.0*10**18
NP1:Strike=157 Dip=73 Slip= -8
NP2: 249 83 -162

TWG	1.29	329 ePc	58 45.10	-1.4	
TWF1	1.70	345 eP	58 50.50	-1.8	
		eS	59 13.90		
TWD	2.37	356 ePc	58 59.90	-2.0	
ANP	3.48	356 iP	59 18.50	0.8	
		eS	59 38.00		
PIP	3.54	198 iPc	59 17.00	-1.5	
		iS	00 01.00		
CVP	3.98	180 iPd	59 24.50	-0.2	
		eS	00 10.00		
SZP	4.32	197 eP	59 29.00	-0.6	
		eS	00 22.00		
QZH	4.36	318 ePn	59 28.00	-2.2	
E	14s	368.00um			
BAG	5.39	192 ePc+	59 42.00	-3.0X	
QCP	7.06	186 eP	00 10.00	1.7	

HKC 7.09 276 iP 00 05.10 -3.7X
iS 01 14.00
MCO 7.65 275 iP 00 13.50 -3.2X
GZH 7.94 282 Pd 00 17.00 -3.6
1.0s 1700.00nm 7.2mb X
Z 12s 155.00um 4.9Msz
N 13s 127.00um
E 13s 94.90um
S 01 49.00
PGP 8.20 186 ePc 00 24.20 0.0
eS 01 18.00
SSE 9.37 357 Pc 00 36.00 -4.4X
5.0s 1700.00nm 6.6mb X
N 12s 174.00um
E 10s 150.00um
sP 00 49 00
NJ2 10.63 346 Pc 00 54.00 -3.8X
0.8s 200.00nm 6.5mb
N 12s 172.00um
E 11s 349.00um
sP 01 06.00
PLP 10.92 163 iPd 01 02.20 0.5
iS 01 31.00
WHN 11.05 324 eP 01 01.00 -2.4
N 16s 583.00um
sP 01 11.50
S 03 02.50
MAP 11.51 169 ePc 01 09.00 -0.8
1.5s 10.50nm 4.9mb
OIZ 11.52 259 eP 01 07.00 -2.9X
N 14s 82.00um
E 16s 91.90um
S 03 17.60
PPR 12.22 194 iP 01 18.00 -1.4
1.5s 7.00nm 4.7mb X
KAGJ 12.47 39 eP 01 14.80 -7.9X
KUMJ 13.45 35 P 01 32.50 -3.2X
CGP 13.47 168 iPd 01 40.00 4.0X
1.0s 18.00nm 5.0mb
GYA 14.60 292 iPd 01 44.00 -7.0X
6.0s 2200.00nm 5.9mb X
Z 16s 62.10um 5.2Msz
N 12s 66.20um
E 12s 108.00um
S 04 28.00
SHNJ 14.85 32 eP 01 47.00 -7.1X
TIA 15.02 345 Pd 01 57.40 1.1
5.0s ******** nm 6.5mb X
E 11s 231.00um
SHK 15.97 35 eP 02 04.00 -4.6X
TKSJ 16.33 39 P 02 06.10 -7.1X
KKM 16.48 200 ePd 02 16.00 0.7
1.2s 490.40nm 5.5mb
XAN 16.73 320 Pd 02 18.20 -0.1
5.0s 3200.00nm 5.7mb X
N 13s 89.30um
pP 02 25.00
YONJ 16.89 35 P 02 13.50 -6.8X
DL2 17.15 360 iPc 02 24.00 0.5
6.0s ******** nm 6.2mb X
Z 20s 63.00um 3.7MszX
N 12s 48.20um
E 12s 43.50um
WKYJ 17.42 41 P 02 25.80 -1.2
TSM 17.75 192 ePc 02 31.20 0.0
KMI 17.81 285 Pd 02 31.00 -1.2
3.0s 1400.00nm 5.6mb
pP 02 47.00
TIY 17.89 335 iPc 02 34.00 1.2
6.0s ******** nm 6.4mb X
Z 16s 73.90um 6.6Msz
E 10s 63.50um
TSRJ 18.55 39 eP 02 39.10 -1.8
CD2 18.56 303 P 02 40.00 -1.3
8.0s ******** nm 6.1mb X
E 10s 102.00um
S 06 02.00
BJI 18.89 347 eP 02 45.00 -0.1
9.0s 8130.00nm 5.9mb X
E 15s 111.00um
eS 06 06.00
LOE 19.38 261 eP 02 51.00 -0.2
IIDJ 19.68 42 P 02 55.40 0.9
SNY 20.12 4 iPc 02 56.00 -3.0
1.6s 600.00nm 5.7mb
Z 15s 73.40um 6.2MszX
E 14s 76.70um

sP 03 08.00
iS 06 40.00
MTMJ 20.34 40 P 03 01.80 0.3
MAJO 20.55 40 iPc 03 03.44 -0.2
ed 03 10.39 26km
eS 06 53.11
MAT 20.55 40 P 03 03.00 -0.6
PCT 20.57 254 eP 03 05.50 1.7
CHJJ 20.72 43 P 03 04.60 -0.7
HHC 20.96 338 eP 03 07.60 -0.3
6.0s 6200.00nm 6.2mb X
Z 12s 141.00um 6.6MszX
N 12s 152.00um
pP 03 12.00 16km
PP 03 31.00
LZH 21.21 316 iPd 03 10.50 0.0
4.0s 6540.00nm 6.4mb X
Z 10s 58.90um 6.3MszX
E 12s 60.50um
pP 03 16.00 20km
PP 03 35.50
S 07 02.00
BTO 21.32 335 iP 03 10.00 -1.5
4.0s 2900.00nm 6.0mb X
N 12s 105.00um
E 12s 90.40um
pP 03 15.00 18km
PP 03 34.00
S 07 03.00
sS 07 13.50
NST 21.36 257 eP 03 15.00 3.1X
NIIJ 21.49 40 eP 03 10.70 -2.4
KAKJ 21.57 44 eP 03 11.30 -2.6X
CHG 21.62 266 ePd 03 14.90 0.3
1.0s 47.25nm 4.9mb
eS 07 18.00
BDT 21.93 262 eP 03 18.10 0.5
1.1s 324.60nm 5.7mb
CN2 22.25 7 iPc 03 19.00 -1.6
5.0s 9400.00nm 6.5mb X
N 12s 102.00um
E 12s 139.00um
S 07 19.00
YAMJ 22.72 40 eP 03 24.70 -0.7
NNT 22.92 250 eP 03 26.00 -1.4
e 10 34.00
KHT 23.06 257 iPd 03 30.30 1.4
PJG 23.40 106 eP 03 33.60 1.4
GUA 23.46 106 eP 03 33.50 0.7
Z 19s 45.14um 6.0Msz
eS 03 39.30
MDJ 23.74 14 Pc 03 35.60 0.4
2.5s 670.00nm 5.7mb
Z 16s 119.00um 6.5MszX
N 13s 73.50um
E 12s 88.50um
pP 03 38.60 11km
PP 04 12.00
sS 08 00.00
OFUJ 24.28 40 P 03 40.80 0.3
AOMJ 24.53 36 eP 03 45.90 3.0X
SNG 25.03 238 eP 03 48.90 1.0
1.3s 303.85nm 5.8mb
eS 08 15.90
GTA 25.76 318 eP 03 55.20 0.3
1.4s 130.00nm 5.4mb
E 11s 55.60um
pP 03 59.20 14km
PP 04 33.00
S 08 20.00
sS 08 28.00
SS 09 22.00
MRRJ 26.23 34 eP 04 01.20 2.3
IPM 26.37 233 ePc 03 58.10 -2.4
0.9s 227.90nm 5.8mb
e 04 22.00 110kmX
KGM 26.57 225 ePd 04 02.60 0.3
SAP 26.82 33 eP 04 07.00 2.7X
HOOJ 27.38 36 eP 04 12.80 3.4X
HIA 27.55 357 ePc 04 08.11 -2.9
eS 08 46.90
eS 10 03.88
ASAJ 28.24 33 eP 04 19.50 2.3
KUSJ 28.63 37 eP 04 22.40 1.6
LSA 28.67 292 eP 04 23.60 1.8
Z 24s 111.00um 6.4MszX
N 13s 26.90um

PSI 29.18 233 ePd 04 26.70 0.8
BSI 30.29 242 eP 04 35.00 -0.9
YSS 30.41 29 iPc 04 36.00 -0.6
eS 09 26.00
TRT 30.57 198 iPc 04 33.80 -4.5X
IRK 33.37 340 eP 05 01.00 -1.5
eS 10 19.00
KKN 33.62 288 P 05 04.00 -1.2
WMQ 35.80 316 P 05 24.00 0.5
5.0s 2400.00nm 6.4mb X
Z 15s 115.00um 6.8MszX
N 15s 61.70um
E 12s 56.80um
PP 06 45.00
S 11 00.00
RAB 39.33 127 iP- 05 55.20 1.7
iS 12 00.00
PMG 39.70 139 eP 05 56.00 -0.4
NDI 40.75 289 iPd 06 05.00 0.0
HYB 40.87 272 eP 06 06.00 -0.1
1.4s 100.00nm 5.4mb
PET 42.05 33 eP 06 16.00 0.7
eS 12 30.00
MBL 42.64 183 eP 06 19.00 -1.5
KSH 42.73 305 Pc 06 24.50 3.2X
E 12s 70.20um
GBA 42.91 267 P 06 23.00 0.2
1.8s 178.40nm 5.5mb
KOD 43.97 262 eP 06 32.40 0.6
eS 13 06.00
QIS 45.47 156 iPc 06 40.90 -2.4
BOM 45.87 276 eP 06 44.00 -2.6X
iS 13 38.00
ASPA 46.61 165 iPc 06 50.10 -2.3
1.2s 35.60nm 5.3mb
iS 13 34.20
WARB 47.83 174 iPc 07 21.00 19.0X
CTA 47.93 148 iPc 07 04.10 1.3
1.3s 123.08nm 5.8mb
iS 13 57.00
MEKA 48.13 184 iPc 07 02.90 -1.4
DSH 48.17 303 eP 07 06.00 1.3
SVO 48.30 125 eP 07 07.00 1.3
HNR 48.58 126 eP 07 11.00 3.1X
eS 14 12.00
TIK 50.11 3 iPd 07 17.00 -1.9
eS 14 25.00
SMY 50.39 39 e(P) 07 22.70 1.4
1.3s 583.20nm 6.4mb
BAL 52.24 186 eP 07 32.00 -3.6X
KLB 53.13 184 eP 07 39.50 -2.7X
0.4s 23.00nm 5.5mb
MUN 53.64 186 eP 07 44.00 -1.9
1.0s 110.00nm 5.8mb
NWAO 54.50 185 eP 07 50.00 -2.2
0.8s 72.00nm 5.8mb
RMO 54.57 150 e(P) 07 51.00 -1.8
i 07 58.40 24km
e 09 00.50
i 10 12.20
RKG 55.65 185 eP 08 03.00 2.4X
ADK 55.71 41 e(P) 07 59.80 -1.1
1.4s 289.20nm 6.1mb
STK 56.56 160 iPd 08 23.50 16.4X
0.6s 6.00nm
BRS 57.27 147 iPc 08 11.80 -0.6
e 08 18.00 20km
e 09 12.00
ADE 58.60 164 eP 08 20.00 -1.6
1.1s 113.92nm 5.9mb
ILT 58.74 22 eP 08 22.00 -0.1
eS 16 22.00
COO 59.49 150 eP 08 27.50 -0.2
DZM 61.56 132 iPc 08 42.80 0.7
BFD 61.75 161 e(P) 08 41.00 -2.0
RIV 61.91 152 eP 08 52.00 7.9X
Z 20s 12.62um 6.1Msz
eS 17 16.00
CNB 62.45 155 eP 08 46.00 -1.8
TOO 63.04 159 eP 08 53.50 1.9
Z 19s 17.60um 6.3Msz
ANM 63.25 28 eP 08 54.10 1.4
BEE 64.59 289 (P) 09 03.20 1.1
1.2s 133.00nm 6.0mb
BBU 64.60 290 eP 09 03.70 1.6
0.9s 114.00nm 6.0mb
SDN 65.49 38 eP 09 07.10 -0.3

26d 04h

TAB		65.80	303	eP	09	11.00	1.1	HFS		79.99	331	eP	10	31.10	-1.7	BRG		84.04	323	iP	10	54.20	0.2
BRW		66.89	20	eP	09	16.70	0.6			0.8s	42.90nm			5.5mb				2.0s	85.00nm			5.6mb	
BKR		67.34	307	iP	09	21.00	1.3		Z	17s	45.84um			6.9MszX					i		11	00.00	18km
				iS	18	18.00					LR	42	53.00						i		11	03.20	
TTA		67.38	29	eP	09	21.00	1.6	RGS		80.05	334	eP	10	32.00	-1.0				i		11	13.00	
SVW		67.69	31	eP	09	24.00	2.6X	DIM		80.22	311	eP	10	36.00	1.6				iS		21	19.00	
IMA		68.17	26	eP	09	25.20	0.7	IZM		80.23	307	eP	10	35.00	0.4	VLI		84.04	307	P	10	50.00	-4.3X
		1.1s	52.30nm			5.6mb		ALN		80.26	310	eP	10	36.50	1.9	PRU		84.10	322	eP	10	54.50	0.2
RYD		68.33	289	ePd	09	23.50	-2.5X	CEI		80.26	317	eP	10	42.00	7.6X			2.3s	418.50nm			6.3mb	
TAU		68.46	160	eP	09	29.00	2.7X	EZN		80.43	309	eP	10	36.50	1.0		Z	16s	13.20um			6.4MszX	
				e	18	28.00		KDZ		80.44	311	eP	10	37.00	1.4		N	17s	26.00um				
RSO		69.15	32	ePc	09	30.80	0.1	RDO		80.53	310	P	10	36.00	0.0		E	18s	17.60um				
APA		69.57	336	iPc	09	32.30	-0.5	PRK		80.66	308	P	10	37.00	0.2				e		10	58.00	11km
OBN		69.78	322	iPc	09	33.00	-1.3	NB2		80.67	332	P	10	34.00	-2.4				e		11	00.50	
				iS	18	40.00				1.3s	204.00nm			6.0mb					PP		14	24.00	
SLKM		70.39	32	eP	09	37.00	-1.0	PLD		80.78	312	eP	10	38.00	0.7				S		21	17.00	
PMR		70.73	30	eP	09	39.50	-0.4	KRA		80.91	320	eP	10	38.30	0.5				SS		26	34.00	
		0.8s	37.80nm			5.6mb				1.0s	254.00nm			6.2mb		PAF		84.27	211	eP	11	12.00	17.0X
	Z	20s	13.00um			6.2Msz					i		10	43.00	15km					eS	21	32.00	
FBA		70.75	27	eP	09	41.40	1.3				e		10	51.00						eSS	26	44.00	
TOA		72.01	30	eP	09	48.90	1.1	RZN		80.92	311	iPc	10	38.00	-0.3	CLL		84.36	323	iP	10	54.60	-1.0
SOD		72.14	336	iP	09	47.30	-1.1	PGB		80.99	312	iPc	10	39.00	0.5			2.0s	260.00nm			6.1mb	
KLU		72.26	30	P	09	49.00	-0.3	SPC		81.06	319	eP	10	38.70	-0.2		Z	18s	38.00um			6.8Msz	
KBS		72.57	349	eP	09	57.20	6.4X				e(PP)		13	42.50					eS		21	15.00	
KTK1		72.95	338	eP	09	52.45	-0.7	JNW		81.31	345	eP	10	50.00	10.4X	TTG		84.39	313	iPc	10	56.00	0.1
KVT		72.97	308	eP	09	54.00	0.1	BZS		81.57	316	ePc	10	42.00	0.6				e(S)		21	06.00	
GAZ		73.06	304	eP	09	56.20	1.8	VTS		81.64	312	iPc	10	41.00	-1.0	NKY		84.41	314	iPc	10	56.42	0.2
DHJN		73.10	283	eP	09	57.00	1.7	MMB		81.65	311	ePc	10	44.00	2.1	ULC		84.59	313	iPc	10	59.37	2.4
SIM		73.40	312	eP	09	56.00	-0.2	TIM		81.78	316	iPc	10	46.00	3.6X	BRY		84.68	314	iPc	10	57.65	0.1
				eS	19	24.00		OUR		81.93	310	eP	10	37.10	-6.2X	BDV		84.74	313	iPc	11	00.95	3.2X
KAF		73.58	331	iP	09	55.40	-1.5	APE		81.98	307	P	10	35.50	-8.3X	HCY		84.89	314	iPc	11	00.22	1.7
		0.4s	9.20nm			5.2mb		SOH		82.19	311	iPd	10	40.20	-4.6X	YKA		85.03	23	eP	11	07.50	8.8X
BALM		74.04	30	eP	09	59.60	-0.1	PAIG		82.29	310	eP	10	45.20	-0.1			0.9s	20.70nm			5.4mb	
TRO		74.22	339	eP	10	04.88	4.4X	KNT		82.38	311	iPc	10	45.30	-0.5	KHC		85.05	321	eP	11	00.00	0.8
KAS		74.56	309	eP	10	05.00	1.9	BUD		82.48	318	eP	10	46.60	0.5			1.2s	40.00nm			5.5mb	
NUR		74.79	329	iP	10	03.20	-0.7	VAY		82.55	311	iP	10	46.30	-0.3		Z	16s	27.00um			6.7MszX	
BHL		75.15	301	P	10	06.00	-0.7			1.0s	172.00nm			6.1mb			N	16s	12.50um				
				S	19	42.00					i		10	51.40	16km		E	16s	14.00um				
HRI		75.26	300	eP	10	08.00	0.6	NPS		82.56	305	P	10	47.50	0.7				PP		14	18.10	
JVI		75.96	299	eP	10	12.00	0.7	COP		82.62	327	iPc	10	49.60	3.0X				S		21	20.00	
LOF		76.60	339	eP	10	15.00	0.9			0.9s	104.20nm			6.0mb		VLS		85.18	309	P	10	59.00	-1.0
WAJH		76.65	293	eP	10	16.70	1.6	BEO		82.63	315	eP	10	48.50	1.6	WET		85.45	321	eP	11	01.80	0.6
CSS		76.69	302	eP	10	14.50	-0.8	KSP		82.72	322	eP	10	47.50	0.2		Z	15s	20.00um			6.6MszX	
MBH		76.98	297	eP	10	18.00	0.9			1.0s	95.00nm			5.9mb		MOX		85.45	323	eP	11	02.00	0.9
HOL		76.99	296	eP	10	18.30	1.3				i		10	53.50	19km			2.4s	449.00nm			6.3mb	
IAS		77.17	316	eP	10	28.00	10.4X	HYA		82.72	334	eP	10	47.80	0.8		Z	16s	40.00um			6.9MszX	
BADA		77.26	296	eP	10	20.00	1.5	SRO		82.79	319	eP	10	47.30	-0.4		N	16s	35.80um				
CFR		77.39	314	eP	10	20.00	1.1				e		20	28.30			E	18s	19.40um				
EYL		77.41	309	eP	10	18.90	-0.4				e		21	07.80		HOF		85.46	323	eP	11	01.50	0.3
PPCY		77.48	303	eP	10	20.00	0.4	GRG		82.81	311	eP	10	47.40	-0.6		Z	15s	33.00um			6.8MszX	
TLB		77.66	313	eP	10	25.00	4.6X	ATH		82.99	308	P	10	44.00	-4.9X	VBY		85.68	317	ePc	11	03.20	0.8
HRT		77.68	309	eP	10	22.00	1.3				e		20	56.00					i		14	28.80	
GBZT		77.86	309	eP	10	22.10	0.6	SKO		83.09	312	iP	10	39.20	-10.2X	LJU		85.89	318	eP	11	03.90	0.5
ALT		77.91	307	eP	10	23.80	1.8		Z	19s	11.27um			6.3Msz					eS		21	32.00	
YLV		77.98	309	iP	10	21.40	-0.9		N	17s	7.79um					HVAR		85.95	315	eP	11	03.10	-0.6
BCK		78.04	306	eP	10	22.00	-0.8		E	17s	13.93um					CEY		86.10	318	eP	11	04.80	0.3
ISK		78.05	309	eP	10	15.50	-7.1X				i		11	39.50	252kmX	GRF		86.14	322	ePc	11	05.40	0.8
ITU		78.07	310	iPd	10	24.00	1.3				i		12	33.00			Z	20s	14.00um			6.4Msz	
VRI		78.13	315	ePc	10	22.00	-1.0				i		14	35.00					e		11	09.80	14km
UPP		78.31	330	iP	10	22.40	-1.2				i		21	06.00					ed		11	15.00	
				iS	20	14.00					i		21	54.50					eS		21	32.00	
ISR		78.49	314	eP	10	28.00	3.0X				i		26	35.00		KBA		86.14	319	eP	11	04.00	-0.9
CVO		78.51	315	eP	10	30.00	4.9X				i		31	04.00				1.1s	46.50nm			5.6mb	
DMK		78.73	311	eP	10	26.60	0.2				LR		51	02.00					i		11	10.80	21km
NSS		78.75	335	iP	10	25.00	-0.9	UZD		83.12	317	eP	10	50.00	0.6				i		11	33.40	
MLR		78.77	314	ePd	10	28.00	1.3	ZST		83.37	319	eP	10	51.00	0.3				i		14	12.40	
SIT		78.78	33	P	10	30.00	3.8X				e		14	17.60					i		14	34.20	
	Z	20s	9.00um			6.1Msz		BER		83.49	333	eP	10	51.00	0.0	VOY		86.29	318	eP	11	05.20	-0.3
ELL		78.78	305	iP	10	24.80	-2.1	KZN		83.50	311	P	10	51.00	-0.6	RIY		86.30	318	eP	11	05.50	0.1
KCT		78.81	309	iP	10	25.90	-1.0	FNA		83.59	311	eP	11	08.90	16.8X	TRI		86.52	318	eP	11	07.90	1.4
DST		78.82	308	eP	10	26.00	-1.0	AGG		83.60	309	eP	11	05.70	13.6X				i		11	11.30	11km
DAG		78.91	351	iPd+	10	25.40	-1.3	BRN		83.74	324	eP	10	55.00	2.6X				ePP		14	29.10	
		1.3s	153.85nm			5.9mb		IVA		83.78	314	iPc	10	53.65	0.7				eS		21	48.00	
	Z	20s	17.02um			6.4Msz		VKA		83.81	320	eP	10	54.00	1.1				iSP		22	38.00	
	N	19s	13.06um							3.5s	1646.00nm			6.7mb X					iLR		40	26.00	
BNT		79.09	309	iP	10	29.00	0.6		Z	17s	11.40um			6.3MszX		FVI		86.71	319	P	11	09.31	2.0
EDC		79.14	309	iP	10	29.50	0.9				i		10	56.90	9km			1.3s	79.70nm			5.8mb	
JMB		79.35	311	eP	10	31.00	1.3				i		11	09.10		WIT		86.99	327	eP	11	12.50	3.9X
CMP		79.45	314	iPc	10	32.00	1.8				i		14	12.90		WTTA		87.08	320	iPc	11	08.80	-0.6
KOT		79.45	298	eP	10	31.50	1.0				LR		48	06.00				1.4s	129.00nm			6.0mb	
SNZO		79.59	142	eP	10	40.00	9.2X	PVY		83.84	313	iPc	10	55.92	2.6X				i		11	15.30	20km
				eS	20	28.00		MUD		83.84	329	eP	10	54.00	1.2	ORI		87.31	312	P	11	15.80	5.3X
HLW		79.87	298	eP+	10	33.00	0.2			0.9s	35.00nm			5.6mb		SOTA		87.35	320	iPc	11	09.90	-0.8
				eS	20	36.00					i		11	01.70	24km			2.0s	59.90nm			5.5mb	
YER		79.89	306	eP	10	33.00	0.2	OHR		83.87	312	eP	10	53.50	0.1				i		11	16.20	20km
COZ		79.89	315	eP	10	34.00	1.2			1.0s	103.00nm			6.0mb		WTS		87.36	326	eP	11	12.00	1.6
PVL		79.96	312	iPc	10	33.00	0.1	PLE		83.93	314	iPc	10	54.80	1.0			2.0s	389.00nm			6.3mb	

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                   e       14 42.00
TDS      87.57 312 P       11 10.50  -1.2
AOI      87.63 316 eP      11 14.35   2.4
CTI      87.66 319 P       11 14.00   1.8
BNS      87.71 325 ePc     11 14.70   2.6X
     Z  16s      22.00um            6.7MszX
MGR      87.89 313 P       11 18.10   4.9X
DUI      87.94 314 P       11 17.20   3.6X
ALP      88.01 316 eP      11 16.50   2.6X
ARV      88.08 316 P       11 12.30  -1.8
ABH      88.09 324 eP      11 14.92   0.9
CIO      88.09 316 eP      11 14.12  -0.1
CSY      88.13 185 eP      11 31.80  18.2X
         0.1s   128.50nm
DBN      88.14 327 eP      11 20.00   5.9X
     Z  18s      17.90um            6.5Msz
                   ePP     14 47.00
                   e       15 35.00
                   eS      22 08.00
RSM      88.18 317 P       11 17.10   2.6X
OSS      88.25 320 ePd     11 18.00   2.9X
AOU      88.32 315 P       11 19.50   4.2X
SDI      88.35 315 P       11 18.10   2.6X
RFI      88.43 314 P       11 27.70  12.0X
SAX      88.44 321 ePd     11 18.80   2.7X
ASS      88.46 316 P       11 17.40   1.4
AZI      88.47 315 P       11 23.70   7.8X
SOI      88.47 311 P       11 21.20   5.2X
ENN      88.49 325 eP      11 17.00   1.2
         2.0s   417.00nm            6.4mb
                   e       14 44.00
MEM      88.53 325 P       11 15.90  -0.1
                   PP      14 21.70
SFI      88.57 317 P       11 15.30  -1.1
CRE      88.65 317 P       11 16.10  -0.8
VDL      88.75 320 ePd     11 20.00   2.5
NPA      88.76 253 eP      11 20.80   3.1X
MNS      88.78 316 P       11 14.80  -2.7X
LLS      88.84 321 ePd     11 21.70   3.8X
FIR      89.01 317 eP      11 19.00   0.5
                   iPP     14 14.00
                   iS      21 50.00
CDF      89.02 323 eP      11 17.50  -1.1
         1.0s    38.00nm            5.6mb
DRV      89.16 173 eP      11 34.00  15.5X
                   S       21 57.00
GDH      89.24 358 ePc     11 18.00  -1.1
         0.6s    16.00nm            5.5mb
                   i       22 06.00
BDI      89.29 318 P       11 21.50   1.6
UCC      89.30 326 eP      11 29.00   9.3X
                   e       14 48.00
                   SKS     22 10.00
                   e       22 42.00
                   PPS     25 25.00
VAI      89.49 320 P       11 18.50  -2.2
MNO      89.49 311 P       11 27.40   6.2X
SNF      89.50 326 eP      11 28.30   7.6X
DOU      89.57 325 P       11 23.70   2.7X
         0.9s    45.00nm            5.7mb
                   e       14 57.00
                   S       22 11.00
                   e       28 11.00
BSF      89.61 322 eP      11 19.90  -1.5
         1.0s    22.00nm            5.4mb
BOB      89.64 319 P       11 19.50  -2.1
HAU      89.76 323 eP      11 20.80  -1.2
         0.9s    16.40nm            5.3mb
     Z  19s      18.75um            6.5Msz
MMK      89.87 320 ePd     11 26.70   3.8X
EKA      90.15 332 P       11 25.00   1.4
         1.9s    51.70nm            5.5mb
DIX      90.18 321 ePd     11 28.90   4.5X
EMS      90.47 321 ePd     11 28.80   3.2X
RMW      90.61  37 P       11 26.00   0.0
PNT      90.76  35 eP      11 27.00   0.4
         1.1s    35.00nm            5.6mb
RSL      90.86 321 P       11 31.83   4.5X
LPG      90.89 320 eP      11 27.00  -0.6
         1.0s    59.00nm            5.9mb
LPL      90.89 320 eP      11 27.00  -0.5
         1.0s    55.00nm            5.8mb
LON      91.00  38 P       11 27.70  -0.1
PGF      91.06 317 eP      11 27.70  -0.5
         1.0s   122.00nm            6.2mb
COR      91.30  40 iPc     11 31.66   2.6
                   eSKS    22 03.43
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                   eS      22 35.05
                   ePS     23 37.24
SBF      91.35 319 eP      11 28.30  -1.2
         1.2s    89.25nm            6.0mb
EDM      91.48  30 eP      11 30.00   0.1
LOR      91.57 323 eP      11 29.20  -1.2
         1.3s    77.60nm            5.9mb
     Z  18s      21.75um            6.6Msz
SSF      91.89 323 eP      11 30.80  -1.0
         1.1s    48.85nm            5.8mb
SMF      91.94 322 eP      11 31.00  -1.1
         0.9s    49.95nm            5.9mb
FRF      91.99 319 eP      11 31.50  -0.9
AVF      92.13 323 eP      11 31.90  -1.0
         1.1s    61.05nm            5.9mb
LMR      92.20 319 eP      11 32.70  -0.6
         1.4s    82.75nm            5.9mb
LRG      92.23 319 eP      11 33.10  -0.3
         1.3s   108.30nm            6.1mb
SSB      92.31 321 P       11 43.13   9.3X
PLDF     92.45 322 P       11 37.00   2.5X
BGF      92.55 323 eP      11 33.90  -1.0
         1.1s    35.40nm            5.7mb
CRZF     92.57 221 eP      11 48.00  13.3X
                   ePP     15 21.00
                   eS      23 09.00
                   eSS     28 57.00
AGO      92.68 322 P       11 42.50   7.0X
NEW      92.71  35 ePd     11 35.40  -0.3
         1.0s    32.50nm            5.7mb
                   e       11 42.80  23km
FHC      92.89  44 eP      11 43.30   6.7X
MAF      92.90 323 eP      11 35.90  -0.6
         1.2s    61.00nm            5.9mb
LDF      92.95 326 eP      11 29.60  -7.0X
         1.0s    61.00nm            6.0mb
TCF      93.06 323 eP      11 36.50  -0.8
         1.3s    54.15nm            5.8mb
LBL      93.09 322 P       11 42.00   4.7X
LSF      93.47 323 eP      11 37.90  -1.2
         1.4s    39.20nm            5.6mb
WDC      93.93  43 eP      11 47.50   6.1X
CAF      93.95 322 eP      11 41.20  -0.2
         1.3s    55.95nm            5.8mb
RJF      94.04 322 eP      11 41.50  -0.2
         1.2s    95.20nm            6.1mb
     Z  19s      20.75um            6.6Msz
SES      94.42  31 eP      11 44.00   0.5
FRB      94.45   5 eP      11 43.00  -0.2
ORV      95.16  44 eP      11 46.40  -0.6
FFC      95.17  24 eP      11 45.00  -1.8
         1.2s    21.00nm            5.4mb
BRK      95.58  46 eP      11 58.90   9.9X
CMB      96.73  45 eP      11 54.70   0.4
LRM      96.73  35 eP      11 59.20   4.8X
KVN      97.62  43 P       11 58.00  -0.5
FRI      97.76  45 eP      12 04.50   5.7X
BONR     98.13  44 P       12 04.00   3.1X
TNP      98.75  43 eP      12 04.00   0.4
         1.0s     9.17nm            5.3mb
ISA      99.34  46 ePc     12 12.50   6.4X
                   ePS     25 09.11
CLC      99.83  45 eP      12 15.00   6.6X
SBB     100.33  46 ePdiff12 23.00  12.4X
PAS     100.41  47 iPdiff12 17.13   6.3X
                   eSKS    22 52.05
                   eSDIF   23 52.97
                   ePS     25 22.36
TOL     100.61 321 ePdiff12 21.00   9.4X
                   iPP     16 41.00
                   ePPP    17 40.00
                   iS      23 33.00
                   eSS     30 47.00
BCAO    100.62 279 iPdiff12 17.10   4.8X
         0.6s     8.00nm            5.4mb
                   ic      16 17.00
GSC     100.65  45 iPdiff12 14.32   2.3X
                   eSKS    22 52.26
                   ePS     23 25.20
SLR     102.13 247 iPdiff12 16.20  -2.7X
     Z  18s       8.25um            6.3Msz
RSSD    102.22  32 Pdiff 12 25.00   6.0X
     Z  20s      12.43um            6.4Msz
SEK     103.48 245 ePdiff12 36.00  11.2X
GOL     104.71  36 Pdiff 12 35.00   4.8X
     Z  18s       5.42um            6.1Msz
GLD     104.76  36 Pdiff 12 36.00   5.7X
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     Z  20s       7.00um            6.2Msz
IFR     105.34 316 iPKP    16 50.00   2.9X
ANMO    107.40  40 PKP     17 01.00  10.0X
     Z  20s       7.02um            6.2Msz
ALQ     107.41  40 e(Pdif12 49.00   6.8X
ALQ     107.41  40 e(PKP)16 51.00   0.0
     Z  20s       8.33um            6.3Msz
TIO     108.39 315 iPKP    17 11.00  18.1X
MEO     111.98  35 ePKP    17 19.00  19.6X
RSNY    112.40  13 PKP     17 05.00   5.1X
     Z  18s      21.29um            6.8Msz
UYO     114.60  33 e(PKP)17 11.00   6.5X
RSCP    117.39  25 PKP     17 25.00  15.2X
     Z  20s      10.17um            6.4Msz
KIC     120.65 292 PKP     17 17.00   0.5
TIC     120.75 292 PKP     17 17.00   0.3
LIC     120.96 292 PKP     17 17.70   0.6
     Z  21s       7.50um            6.3Msz
UPA     143.01  37 (PKP)   17 56.00  -2.6X
     Z  22s       7.41um            6.4Msz
TCE     147.61   7 ePKP    18 11.55   5.3X
TRN     147.70   6 ePKP    18 10.02   3.7X
TPP     148.02   6 ePKP    18 13.02   6.1X
FUQ     149.00  31 ePKP    18 10.00   1.1
BOG     149.57  33 ePKP    18 14.00   4.2X
SOB1    159.22 304 ePKP    18 23.30   0.9
                   i       19 37.00
PDCR    159.62 293 ePKP    18 25.60   2.9X
                   e       18 34.00
PEL     164.13 139 ePKP    18 33.50   6.6X
                   e       19 28.00
LPA     166.84 181 ePKP-   18 44.00  15.0X
     Z  20s       5.67um
BAO     168.59 300 e(PKP)18 29.00  -1.8
                   e       30 45.80
ZOBO    169.18  62 PKP     18 32.90   1.2
         1.1s    28.42nm
LPB     169.33  63 PKP     18 31.50  -0.1
     Z  24s       8.53um
                   PP      23 07.00
                   SS      44 26.00
                   LR      18 06.00
CNCB    169.57  64 PKP     18 34.00   2.0
CCH     171.37  61 ePKP    18 35.00   2.5X
SIV     173.71  26 PKP     18 33.20   0.1
       S.D. = 1.2  on 279 of 406 obs.
-------------------------------------
   MAR  26, 1991  03h 59m 11.40± 0.36s
   44.318 N ± 3.0km     7.454 E ± 3.0km
   DEPTH =    5.0km  (geophysicist)
 NORTHERN ITALY                   (545)
        ML 2.5 (LDG), 2.2 (GEN).

ENR       0.09 195 P       59 13.09  -0.5
                   S       59 14.34
STV       0.12 232 P       59 13.66  -0.3
ROB       0.30  94 P       59 17.83   0.4
                   S       59 22.85
PZZ       0.31 307 P       59 17.59  -0.2
SBF       0.45 182 Pg      59 20.80   0.3
                   Sg      59 27.10
IMI       0.51 142 P       59 21.11  -0.6
                   S       59 28.69
BHB       0.54 346 P       59 22.15  -0.1
FIN       0.55 101 P       59 22.16  -0.3
PCP       0.81  74 P       59 28.17   0.5
                   S       59 38.13
FRF       0.96 218 Pg      59 30.50   0.5
                   Sg      59 44.00
LRG       1.17 223 Pg      59 34.00   0.3
                   Sg      59 50.00
LMR       1.20 215 Pg      59 34.10  -0.1
                   Sg      59 49.80
LPG       1.28 337 Pg      59 35.60  -0.2
CDR       1.38 243 e(Pg)   59 37.70   0.5
                   e(Sg)   59 56.40
       S.D. = 0.4  on  14 of  14 obs.
-------------------------------------
%  MAR  26, 1991  04h 07m 20.88± 0.71s
   40.757 N ± 8.3km   15.240 E ±10.4km
   DEPTH =   10.0km  (geophysicist)
 SOUTHERN ITALY                   (390)

SGO       0.21 165 Pc      07 25.70   0.4
                   eSg     07 28.60
MGR       0.66 159 P       07 33.50  -0.6
                   eSg     07 46.90
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26d 04h

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DUI      1.08 327 P      07 42.10   0.9
ORI      1.15 126 P      07 43.40   0.9
                eSn     07 59.70
TDS      1.38 142 P      07 46.00  -0.2
SDI      1.43 312 P      07 46.20  -0.8
BRT      1.49  85 P      07 47.10  -0.7
     S.D. = 0.9  on   7 of   7 obs.
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?  MAR 26, 1991  04h 28m 47.34± 3.32s
   39.611 N ±26.1km   22.349 E ±12.3km
   DEPTH =  10.0km  (geophysicist)
 GREECE                          (364)
     MD 2.8 (THE).

PAIG     1.07  72 iPc    29 08.00   0.5
                eS      29 25.32
THE      1.12  25 iPc    29 08.40   0.0
GRG      1.35   2 iPc    29 12.00  -0.1
                eS      29 32.52
FNA      1.39 328 iPc    29 11.50  -1.3
                iS      29 29.50
SOH      1.43  32 iPc    29 12.50  -0.9
                iS      29 32.00
KNT      1.61  15 iPc    29 15.50  -0.3
                eS      29 35.96
VAY      1.72   6 iPn    29 18.00   0.6
SRS      1.78  32 iPc    29 18.00  -0.3
                iS      29 40.00
OHR      1.91 322 iPn    29 25.30   5.0X
      0.9s   171.00nm
                iSn     29 49.50
                Lg      30 05.30
SKO      2.46 344 ePn    29 30.00   1.9
     S.D. = 1.1  on   9 of  10 obs.
-------------------------------------
*  MAR 26, 1991  04h 31m 58.37± 0.97s
   36.895 N ±11.9km   29.493 E ± 6.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)

ELL      0.36 114 iPg    32 05.80  -0.1
                iSg     32 12.30
YER      1.00 284 ePn    32 17.30   0.0
BCK      1.04  57 iPn    32 18.40   0.3
CIN      1.32 303 eP     32 23.00   0.2
KHL      1.43   1 ePn    32 24.00  -0.4
     S.D. = 0.4  on   5 of   5 obs.
-------------------------------------
*  MAR 26, 1991  04h 38m 10.90± 0.85s
   21.911 N ± 7.2km   121.571 E ±15.5km
   DEPTH =  10.0km  (geophysicist)
   4.1mb (  3 obs.)
 TAIWAN REGION                   (243)

TWG      1.02 333 eP     38 29.80  -0.3
                eS      38 44.10
TWF1     1.46 350 ePc    38 37.00  -0.2
TWD      2.16   1 eP     38 46.70  -0.7
CVP      4.19 177 iPc    39 16.00  -0.3
                iS      40 04.00
BJI     18.65 347 eP     42 32.00   1.3
CHTO    21.43 266 eP     43 00.00  -1.4
      1.2s    19.10nm          4.4mb
KKN     33.36 288 P      44 52.20   0.4
KOD     43.79 262 eP     46 20.80   1.6
NB2     80.39 332 P      50 23.10  -0.8
      0.9s     1.90nm          4.1mb
YKA     84.92  23 eP     50 47.50   0.4
      0.6s     0.30nm          3.7mb
     S.D. = 1.1  on  10 of  10 obs.
-------------------------------------
?  MAR 26, 1991  05h 12m 52.25± 2.91s
   71.285 N ± 7.3km    8.151 W ±50.8km
   DEPTH =  10.0km  (geophysicist)
   3.5mb (  1 obs.)
 JAN MAYEN ISLAND REGION         (639)

JNW      0.27 199 iPgc   12 58.06   0.1
JNE      0.30 189 iPgd   12 58.41  -0.1
JMI      0.41 208 iPgc   13 00.19  -0.4
                iSg     13 05.03
DAG      6.23 337 iPc    14 25.10  -1.2
      0.4s    25.42nm          5.4mb X
                e       15 31.00
YKA     37.27 313 eP     20 06.80   1.6
      0.8s     0.80nm          3.5mb
     S.D. = 1.4  on   5 of   5 obs.
-------------------------------------
   MAR 26, 1991  05h 22m 40.91± 0.69s
   38.316 N ± 6.6km  118.325 W ± 6.5km
   DEPTH =   5.0km  (geophysicist)
 CALIFORNIA-NEVADA BORDER REGION ( 40)
     ML 2.7 (GS).

BONR     0.36 177 iP     22 48.30   0.1
KVN      0.75  13 eP     22 55.90  -0.3
TNP      0.90 105 iP     22 58.90   0.1
CMB      1.65 261 eP     23 10.20  -0.5
ARN      2.72 250 eP     23 25.90  -0.2
ORV      2.77 298 eP     23 27.50   0.7
     S.D. = 0.5  on   6 of   6 obs.
-------------------------------------
   MAR 26, 1991  05h 48m 54.00± 2.98s
   36.784 N ±30.5km   71.270 E ±28.1km
   DEPTH =  99.1 ± 34.6 km
   3.7mb (  5 obs.)
 AFGHANISTAN-USSR BORDER REGION  (717)

NDI      9.50 147 eP     51 10.00   0.3
KKN     14.85 123 P      52 19.80  -0.4
GBA     23.73 165 P      54 04.00   6.0X
      0.5s     1.10nm          3.5mb
HFS     42.98 322 eP     56 44.00  -0.5
      0.4s     1.20nm          4.1mb
NB2     44.28 323 P      56 55.20   0.1
      0.5s     0.60nm          3.7mb
MBC     67.04   3 eP     59 38.00   0.1
YKA     80.95   3 eP     00 58.70   0.5
      0.6s     1.00nm          3.8mb
WRA     81.96 122 P      01 04.00  -0.2
      0.7s     0.90nm          3.7mb
     S.D. = 0.5  on   7 of   8 obs.
-------------------------------------
   MAR 26, 1991  06h 19m 28.41± 0.21s
   21.673 N ± 3.0km   121.826 E ± 4.1km
   DEPTH =  19.4km  ( 11 depth phases)
   5.2mb ( 52 obs.)  5.1Msz (  4 obs.)
 TAIWAN REGION                   (243)
      CENTROID, MOMENT TENSOR    (HRV)
      Data Used: GDSN
      L.P.B.: 10S, 22C
      Centroid Location:
      Origin Time        06:19:37.8 1.1
      Lat 21.68N 0.12 Lon 122.36E 0.11
      Dep  37.5 9.2 Half-duration  2.5
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 0.50 0.17  Mtt= 0.64 0.29
        Mff=-1.14 0.19  Mrt= 0.00 0.00
        Mrf= 0.00 0.00  Mtf=-1.80 0.17
       Principol Axes:
        T  Val=  1.76  Plg= 0  Azm=212
        N        0.50      90       180
        P       -2.26       0       122
      Best Double Couple:Mo=2.0*10**17
       NP1:Strike=257 Dip=90 Slip=-180
       NP2:        347     90         0

TWF1     1.74 344 iPc    19 57.00  -0.9
                eS      20 17.70
TWD      2.41 355 eP     20 06.40  -1.0
TWC      2.92   0 ePc    20 14.40  -0.3
ANP      3.51 355 iP     20 25.30   2.1
                eS      20 44.20
PIP      3.52 199 iPc    20 21.00  -2.2
                iS      21 10.00
CVP      3.95 180 iPd    20 29.00  -0.3
                iS      20 53.00
SZP      4.30 198 ePd    20 23.50 -10.8X
                eS      21 28.00
QZH      4.41 318 Pnc    20 34.50  -1.3
     Z  12s    19.30um
                Sn      21 26.50
BAG      5.37 193 ePc+   20 46.00  -3.6X
                eS      21 46.00
QCP      7.03 186 eP     21 07.00  -5.9X
HKC      7.13 276 eP     21 11.80  -2.5
                iS      22 27.20
MCO      7.69 275 iP     21 19.00  -3.2X
GZH      7.97 282 eP     21 21.00  -5.1X
     Z  14s    18.70um
                S       22 51.00
PGP      8.17 186 eP     21 29.00   0.2
SSE      9.40 357 Pc     21 44.00  -1.8
      1.2s    91.00nm          6.0mb

     Z  20s    13.80um          3.8Msz
     N  11s     7.50um
     E  10s     2.10um
                pP      21 50.00
                sP      21 57.00
NJ2     10.67 346 Pd     22 00.00  -3.3X
     Z  16s     8.70um
     N  13s    10.60um
     E  13s    28.70um
PLP     10.88 163 iP     22 06.00  -0.2
      1.5s    24.00nm          5.3mb
WHN     11.09 324 eP     22 09.00   0.0
     Z  12s     4.80um
     N  12s    13.30um
     E  11s    12.30um
MAP     11.47 169 ePc    22 16.00   1.7
QIZ     11.54 259 eP     22 14.60  -0.7
     N  15s    20.40um
     E  15s     5.50um
                S       24 25.00
PPR     12.20 195 eP     22 23.50  -0.6
CGP     13.43 168 eP     22 40.00  -0.5
      1.2s     6.00nm          4.4mb
GYA     14.64 292 P      22 56.80   0.2
     Z  16s     4.70um
     N  12s     5.80um
     E  12s     4.50um
                S       25 37.80
TIA     15.06 345 eP     23 03.20   1.5
      1.4s   400.00nm          5.6mb
     Z  14s    10.70um          4.6Msz
     E  11s     9.10um
                eS      25 44.00
KKM     16.46 200 ePd    23 20.30   0.2
XAN     16.77 320 Pc     23 24.60   0.7
      1.5s   200.00nm          5.0mb
     N  12s     9.10um
     E  11s    12.40um
                sS      26 33.00
DL2     17.18 359 iPc    23 28.00  -0.9
      1.4s   400.00nm          5.4mb
KMI     17.85 285 Pc     23 38.50   0.9
      2.5s   200.00nm          4.8mb
     Z  12s    14.40um          5.0Msz
     N  10s     5.80um
                S       27 00.00
                i       27 11.00
TIY     17.93 335 Pc     23 40.00   1.7
     Z  14s    19.40um
     N  12s    14.20um
CD2     18.61 303 eP     23 47.40   0.6
     Z  10s     6.70um
     E  10s    10.80um
BJI     18.93 347 eP     23 51.50   0.9
      1.7s    52.00nm          4.5mb
     N  12s     5.10um
                eS      27 24.00
LOE     19.41 261 eP     23 57.00   0.6
SNY     20.15   4 iPd    24 04.50   0.3
      1.4s   200.00nm          5.3mb
     Z  14s     9.40um          5.3MszX
     N  13s     4.70um
     E  13s     7.50um
                PP      24 26.50
MAT     20.55  40 P      24 10.00   1.4
PCT     20.59 254 eP     24 12.00   3.0X
HHC     21.00 338 eP     24 13.00  -0.2
      1.0s   100.00nm          5.2mb
     Z  16s    10.10um          5.3MszX
     N  11s     6.40um
     E  12s     4.00um
                pP      24 19.00  22km
LZH     21.26 316 Pc     24 16.50   0.5
      3.5s   530.00nm          5.4mb X
     Z  12s     7.44um          5.3MszX
     N  10s     5.91um
                pP      24 22.00  20km
                sP      24 25.00
                PP      24 38.00
                S       28 10.00
                sS      28 16.00
BTO     21.36 335 P      24 16.00  -0.9
     N  13s    12.90um
     E  12s    12.30um
                pP      24 22.00  22km
                ePP     24 45.00
NST     21.39 258 eP     24 21.00   3.8X
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CHG     21.65 267 iPd   24 20.80   1.0
        1.2s    83.98nm         5.0mb
                eS      28 28.00
BDT     21.96 262 eP    24 23.30   0.4
        1.1s   106.50nm         5.2mb
CN2     22.27   7 Pc    24 25.00  -0.8
        4.0s   600.00nm         5.4mb X
      Z 16s     31.00um         5.8MszX
      N 12s      5.40um
      E 12s      4.00um
                pP      24 34.00  32kmX
                eS      28 26.00
NNT     22.94 250 iPd   24 33.50   0.9
KHT     23.09 257 iPc   24 36.50   2.4X
PJG     23.36 106 eP    24 37.50   0.8
GUA     23.42 106 eP    24 37.60   0.3
        0.8s   143.28nm         5.6mb
MDJ     23.76  14 Pd    24 42.00   1.6
        4.0s   390.00nm         5.3mb X
      Z 20s      5.60um         5.0Msz
      N 14s      4.80um
      E 12s      7.20um
                sP      24 48.00
                eS      28 58.00
                sS      29 06.00
SNG     25.04 238 eP    24 54.20   1.2
                eS      29 24.20
GTA     25.81 318 P     25 00.00  -0.2
        1.2s    40.00nm         4.9mb
      Z 18s      6.20um         5.2Msz
      E 12s      6.00um
                pP      25 05.70  20km
                S       29 30.00
                sS      29 38.00
IPM     26.37 233 ePd   25 04.60  -0.9
        1.0s   211.20nm         5.7mb
KGM     26.58 225 eP    25 07.40   0.1
LSA     28.71 292 eP    25 29.60   2.4
PSI     29.19 233 ePd   25 32.60   1.7
BSI     30.30 242 eP    25 42.00   1.0
KKN     33.66 288 P     26 10.80   0.3
WMO     35.84 316 P     26 29.60   0.7
        1.6s   100.00nm         5.5mb
      N 12s      2.60um
      E 12s      2.70um
                eS      32 10.00
NDI     40.79 289 eP    27 11.00   0.8
HYB     40.90 272 eP    27 12.50   1.2
        1.0s    25.00nm         4.9mb
                e       28 50.00 541kmX
                e       29 15.50
KSH     42.78 305 eP    27 24.00  -2.6
      E 10s      4.70um
GBA     42.94 267 Pd    27 27.90  -0.1
        0.9s    48.20nm         5.2mb
WRA     43.13 163 P     27 25.80  -3.6X
KOD     44.00 262 eP    27 39.00   2.1
                eS      34 21.00
OIS     45.42 156 iPc   27 45.10  -2.8X
        0.3s    4.00nm          4.8mb
ASPA    46.57 165 eP    27 54.10  -2.9X
        0.5s    19.20nm         5.4mb
                iS      34 38.00
WARB    47.80 174 iPc   28 24.50  17.9X
CTA     47.88 148 iPc   28 06.00  -1.4
        1.0s    18.00nm         5.1mb
STK     56.52 160 eP    29 29.30  17.5X
        0.7s     3.90nm
                i       29 40.10  36kmX
DZM     61.51 132 iPc   29 50.10   3.4X
ANM     63.26  28 P     29 57.00  -0.7
TAB     65.84 303 eP    30 12.00  -3.1X
BRW     66.90  20 eP    30 22.20   1.1
TTA     67.39  29 eP    30 25.30   0.9
SVW     67.70  31 eP    30 27.80   1.5
IMA     68.18  26 eP    30 30.60   1.2
        0.9s    9.50nm          4.9mb
RSO     69.16  32 P     30 35.60   0.0
SLKM    70.40  32 P     30 44.70   1.8
PMR     70.74  30 eP    30 47.70   2.8X
        1.0s    27.80nm         5.3mb
FBA     70.76  27 eP    30 45.40   0.3
KEV     71.52 339 iP    30 48.10  -1.4
        0.8s    17.60nm         5.2mb
                i       30 54.60  21km
TOA     72.02  30 eP    30 53.90   1.2
SOD     72.18 336 iP    30 52.20  -1.3

                i       30 57.20  16km
KVT     73.02 308 eP    30 58.60  -0.4
KAF     73.62 331 eP    31 00.00  -2.0
        0.9s    35.70nm         5.4mb
BALM    74.05  30 P     31 04.70   0.0
NUR     74.84 329 iP    31 08.60  -0.5
        1.0s    62.00nm         5.6mb
HRI     75.31 300 eP    31 13.00   0.5
MBC     75.57  13 eP    31 18.00   4.9X
        1.3s    37.00nm         5.3mb
JVI     76.00 299 eP    31 17.00   0.6
MBH     77.03 297 eP    31 23.00   0.8
CFR     77.44 314 eP    31 23.00  -1.0
EYL     77.45 309 eP    31 23.90  -0.5
YLV     78.02 309 eP    31 28.00   0.5
VRI     78.18 315 ePd   31 28.00  -0.1
UPP     78.36 330 iP    31 28.00  -0.7
MLR     78.82 315 eP    31 35.00   3.2X
KCT     78.86 309 eP    31 29.80  -2.2
DST     78.87 308 eP    31 32.00  -0.1
DAG     78.95 351 eP    31 30.70  -1.1
CMP     79.49 315 ePc   31 30.00  -5.4X
PVL     80.00 312 eP    31 39.00   0.9
HFS     80.04 331 eP    31 36.80  -1.1
        0.8s    11.70nm         4.9mb
      Z 16s     2.65um          5.7MszX
                LR      03 30.00
DIM     80.27 311 eP    31 40.00   0.5
KDZ     80.49 311 eP    31 41.00   0.3
NB2     80.71 333 P     31 40.20  -1.4
        0.9s    23.20nm         5.2mb
PLD     80.83 312 eP    31 47.00   4.5X
KRA     80.95 320 eP    31 42.80  -0.2
        1.0s    56.00nm         5.5mb
                e       31 48.40  18km
                e       31 52.90
RZN     80.97 311 iPc   31 43.00  -0.5
PGB     81.04 312 eP    31 44.00   0.3
VTS     81.68 312 iPd   31 49.00   1.8
MMB     81.69 311 ePd   31 47.00  -0.1
SRS     81.96 311 eP    31 44.90  -3.5X
PAIG    82.34 310 eP    31 50.20  -0.2
KNT     82.43 311 eP    31 50.80  -0.1
VAY     82.60 311 eP    31 51.60  -0.1
GRG     82.86 311 eP    31 52.80  -0.3
SKO     83.13 312 eP    31 54.50   0.0
                i       31 59.30  15km
ZST     83.41 319 eP    32 02.80   7.0X
FNA     83.64 311 iPd   31 56.00  -1.2
VKA     83.86 320 i(P)  32 06.40   8.3X
OHR     83.91 312 eP    31 58.00  -0.6
        1.3s    78.00nm         5.8mb
BRG     84.08 323 eP    32 03.80   4.7X
PRU     84.14 322 P     32 07.50   8.0X
      Z 14s     1.40um          5.5MszX
      N 18s     1.10um
      E 18s     0.70um
CLL     84.41 323 iPd   32 00.90   0.2
        1.9s    29.00nm         5.2mb
                e       32 13.00  40kmX
IGT     84.87 310 eP    32 04.60   1.3
YKA     85.04  23 eP    32 02.70  -1.0
        0.9s    10.80nm         5.1mb
KHC     85.09 321 P     32 04.80   0.5
        1.0s     7.00nm         4.8mb
                e       32 12.50  24km
MOX     85.49 323 eP    32 14.00   7.8X
        1.3s    24.00nm         5.3mb
VBY     85.73 317 eP    32 12.00   4.5X
LJU     85.94 318 e(P)  32 14.00   5.5X
CEY     86.14 318 e(P)  32 14.00   4.4X
GRF     86.18 322 e(P)  32 06.50  -3.2X
      Z 20s     0.80um          5.1Msz
                e       32 18.90  41kmX
KBA     86.19 319 e(P)  32 13.00   3.0X
        1.0s    13.70nm         5.1mb
                i       32 16.00   9km
                i       32 21.50
VOY     86.34 318 e(P)  32 12.60   2.0
WTTA    87.12 320 i(P)  32 18.30   3.7X
        0.6s     7.50nm         5.1mb
                i       32 26.50  26km
CIO     88.14 316 eP    32 20.33   1.0
EKA     90.20 332 P     32 33.00   4.3X
        1.3s    18.90nm         5.2mb
PNT     90.77  35 eP    32 36.00   4.5X
LPG     90.93 320 eP    32 33.40   0.7

        0.9s    13.10nm         5.3mb
LPL     90.93 320 eP    32 33.30   0.7
        1.0s    15.00nm         5.3mb
PGF     91.11 317 eP    32 33.00  -0.3
        1.1s    53.70nm         5.8mb
EDM     91.49  30 eP    32 37.50   2.7X
LOR     91.62 323 eP    32 34.60  -0.9
        1.1s    14.65nm         5.3mb
LBF     91.71 323 eP    32 34.80  -1.2
        1.1s    17.10nm         5.3mb
SSF     91.93 323 eP    32 36.10  -0.8
        1.1s    11.00nm         5.2mb
SMF     91.98 322 eP    32 36.20  -1.0
        0.9s    11.45nm         5.3mb
AVF     92.17 323 eP    32 37.00  -1.0
        1.1s    14.65nm         5.3mb
BGF     92.59 323 eP    32 39.20  -0.8
NEW     92.72  35 P     32 41.00   0.4
        0.7s    14.00nm         5.5mb
MAF     92.95 323 eP    32 41.20  -0.4
        1.0s     9.00nm         5.2mb
CAF     93.99 322 eP    32 46.30  -0.2
RJF     94.08 322 eP    32 46.70  -0.2
        1.0s    20.00nm         5.5mb
      Z 20s     0.82um          5.2Msz
SES     94.43  31 eP    32 52.00   3.6X
FRB     94.48   5 eP    32 47.00  -1.3
ORV     95.16  44 P     32 51.50  -0.4
FFC     95.18  24 eP    32 52.00   0.2
        1.0s    11.00nm         5.2mb
TNP     98.75  43 P     33 07.50  -1.0
        1.3s    15.31nm         5.4mb
BCAO   100.66 279 ePdiff33 24.10   6.8X
        0.8s     4.00nm         5.0mb
PDCR   159.67 293 (PKP) 39 32.00   4.3X
ZOBO   169.16  62 PKP   39 42.00   5.4X
LPB    169.32  63 PKP   39 41.00   4.5X
CNCB   169.55  64 PKP   39 44.60   7.8X
CCH    171.36  62 ePKP  39 45.00   7.6X
SIV    173.72  26 ePKP  39 36.00  -2.0
     S.D. = 1.1  on 120 of 163 obs.
-------------------------------------
   MAR  26, 1991  06h 34m 41.11± 0.67s
   21.567 N ± 6.2km  121.910 E ± 9.7km
   DEPTH =  10.0km  (geophysicist)
   4.2mb (  6 obs.)
 TAIWAN REGION                    (243)

TWG     1.47 328 eP    35 06.30  -1.3
TWF1    1.86 342 ePc   35 12.20  -1.1
                eS      35 30.20
TWD     2.52 353 eP    35 23.70   1.0
PIP     3.45 201 iPc   35 36.00   0.1
CVP     3.84 181 eP    35 43.00   1.4
                eS      36 08.90
SZP     4.22 199 eP    35 54.00   7.0X
                eS      36 43.00
QZH     4.54 318 Pn    35 50.00  -1.4
                Sn      36 41.70
GZH     8.07 282 P     36 41.40   0.2
QIZ    11.60 260 eP    37 31.00   1.2
                eS      39 35.80
GYA    14.75 292 P     38 11.80   0.0
TIY    18.06 335 eP    38 54.60   0.8
CD2    18.73 304 eP    39 02.50   0.3
BJI    19.05 346 eP    39 10.00   4.1X
SNY    20.25   4 eP    39 19.20  -0.1
        0.8s    10.00nm         4.2mb
LZH    21.39 316 eP    39 31.50   0.2
        1.6s    64.00nm         4.8mb
      Z 11s     2.30um          4.8MszX
                sP      39 41.00
CN2    22.37   7 Pc    39 42.40   1.6
MDJ    23.85  14 Pd    39 57.50   2.3
KKN    33.77 288 P     41 25.60   0.1
WMO    35.97 316 P     41 44.00  -0.1
GBA    43.01 267 Pd    42 42.80   0.1
        1.2s     7.10nm         4.3mb
WRA    43.01 163 P     42 40.00  -2.6
        0.8s     3.10nm         4.1mb
ASPA   46.45 165 eP    43 16.80   6.7X
NB2    80.84 333 P     46 54.80  -1.6
        1.1s     2.90nm         4.2mb
YKA    85.11  23 eP    47 17.20  -1.1
        1.0s     0.60nm         3.8mb
     S.D. = 1.3  on  21 of  24 obs.
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26d 06h

MAR 26, 1991 06h 37m 46.21± 0.66s
21.633 N ± 5.4km 121.714 E ±11.7km
DEPTH = 10.0km (geophysicist)
4.4mb (5 obs.) 3.9Msz (1 obs.)
TAIWAN REGION (243)

TWF1	1.75	347	ePc	38 15.30	-1.5
PIP	3.45	198	iPd	38 40.50	-0.5
			iS	39 21.50	
CVP	3.91	178	eP	38 47.00	-0.6
			eS	39 36.50	
SZP	4.23	197	eP	38 52.00	-0.1
			iS	39 48.00	
OZH	4.37	320	ePn	38 54.50	0.4
			Sn	39 42.50	
WHN	11.07	325	ePc	40 27.50	0.0
GYA	14.56	292	P	41 20.00	5.6X
TIY	17.92	335	Pc	41 55.70	-1.5
CD2	18.54	304	eP	42 05.30	0.3
LZH	21.22	317	eP	42 35.00	0.4
	2.0s		50.00nm	4.6mb	
Z	20s		0.49um	3.9Msz	
CHG	21.55	267	eP	42 39.00	1.1
CHTO	21.55	267	eP	42 37.10	-0.8
	1.0s		8.00nm	4.1mb	
CN2	22.32	7	eP	42 46.20	0.7
MDJ	23.83	14	eP	43 01.10	1.0
GTA	25.77	318	eP	43 19.40	0.4
GBA	42.83	267	Pd	45 47.60	1.3
	0.8s		5.00nm	4.3mb	
KOD	43.89	262	eP	45 54.50	-0.8
ASPA	46.56	165	eP	46 16.80	0.7
	0.9s		6.60nm	4.7mb	
SOD	72.18	336	eP	49 27.00	14.2X
NUR	74.82	329	eP	49 30.00	1.8
NB2	80.70	332	P	49 58.60	-2.2
	1.1s		3.70nm	4.3mb	
YKA	85.12	23	eP	50 38.50	15.1X
	0.8s		0.80nm		

S.D. = 1.1 on 19 of 22 obs.

MAR 26, 1991 07h 11m 38.18± 0.50s
37.667 N ± 7.5km 118.932 W ± 5.8km
DEPTH = 5.0km (geophysicist)
CALIFORNIA-NEVADA BORDER REGION (40)
ML 2.5 (GS).

BONR	0.58	60	eP	11 49.50	-0.2
FRI	0.92	223	iPc	11 54.70	-1.4
			iS	12 06.20	
CMB	1.21	288	eP	12 00.40	-0.8
			eS	12 16.00	
TNP	1.42	73	eP	12 04.90	0.0
KVN	1.53	25	eP	12 06.60	0.2
LLA	1.92	237	ePc	12 12.20	0.4
PRI	2.06	223	ePc	12 14.80	0.8
ARN	2.09	262	eP	12 14.70	0.3
SAO	2.20	247	eP	12 16.30	0.4
PRS	2.36	236	iPd	12 18.80	0.5
BCH	2.65	201	eP	12 22.10	-0.3
ORV	2.76	314	e(P)	12 26.00	2.1X

S.D. = 0.7 on 11 of 12 obs.

MAR 26, 1991 08h 00m 37.77± 0.22s
44.466 N ± 1.5km 7.100 E ± 2.5km
DEPTH = 5.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.5 (LDG), 2.4 (GEN).

PZZ	0.04	1	P	00 39.74	0.5
			S	00 41.69	
FOUF	0.24	286	ePgc	00 42.66	0.1
			e(Sg)	00 44.96	
STV	0.27	144	P	00 43.33	0.0
			S	00 47.33	
ENR	0.33	136	P	00 44.50	0.0
			S	00 48.96	
BHB	0.39	17	P	00 45.83	0.2
			S	00 51.25	
TOUF	0.46	167	Pg	00 47.18	0.1
RRL	0.51	334	P	00 47.95	0.0
			S	00 55.10	
AUTN	0.53	153	Pg	00 48.33	0.0
MVIF	0.57	176	Pg	00 49.57	0.4
			Sg	00 58.15	
ROB	0.58	107	P	00 50.20	0.8
			S	00 57.89	
SAOF	0.58	146	Pg	00 49.59	0.2
			Sg	00 57.69	
AURF	0.60	164	Pg	00 49.87	0.1
			Sg	00 58.58	
SBF	0.65	158	Pg	00 50.70	-0.1
			Sg	00 59.20	
RSP	0.69	9	P	00 51.54	-0.1
			S	01 00.52	
CALN	0.73	192	Pg	00 52.56	0.2
IMI	0.79	134	P	00 53.18	-0.5
			S	01 04.15	
FIN	0.84	108	P	00 54.30	-0.1
			S	01 05.69	
FRF	0.96	200	Pg	00 56.40	-0.1
			Sg	01 09.20	
LSD	0.99	2	P	00 56.97	-0.3
			S	01 10.40	
PCP	1.04	85	P	00 57.79	-0.1
LPG	1.06	347	Pg	00 58.30	-0.1
			Sg	01 12.20	
LPL	1.08	346	Pg	00 58.60	-0.1
LRG	1.14	208	Pg	00 59.60	0.0
			Sg	01 15.40	
LMR	1.21	201	Pg	01 00.80	0.1
			Sg	01 16.70	
PGF	2.36	144	Pn	01 17.00	-0.9

S.D. = 0.3 on 25 of 25 obs.

? MAR 26, 1991 08h 34m 59.74± 1.05s
39.134 N ± 8.6km 27.528 E ±14.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZM	0.76	196	ePg	35 14.60	-0.1
			eSg	35 26.60	
DST	0.97	61	ePn	35 18.70	0.4
KCT	1.28	30	ePn	35 22.80	-0.8
KGT	1.33	353	iPn	35 24.60	0.4

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

? MAR 26, 1991 08h 54m 01.75± 1.53s
50.291 N ±10.5km 12.246 E ±11.3km
DEPTH = 10.0km (geophysicist)
GERMANY (543)
ML 1.6 (FUR).

HOF	0.24	276	ePg	54 07.00	0.2
			iSg	54 10.00	
MOX	0.54	312	iPg	54 12.50	-0.1
			iSg	54 19.50	
GRF	0.89	228	ePg	54 18.80	-0.1
			iSg	54 30.00	
CLL	1.13	25	iPg	54 22.90	0.0
			iSg	54 38.30	
BRG	1.23	61	i(P)	54 28.80	4.2X
			iSg	54 41.20	

S.D. = 0.2 on 4 of 5 obs.

? MAR 26, 1991 08h 55m 16.35± 1.05s
39.144 N ± 8.8km 27.583 E ±14.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZM	0.79	199	ePg	55 31.60	-0.1
			eSg	55 42.10	
DST	0.93	60	ePn	55 34.70	0.5
KCT	1.25	28	ePn	55 38.80	-0.9
KGT	1.32	351	ePn	55 41.20	0.4

S.D. = 1.1 on 4 of 4 obs.

MAR 26, 1991 09h 05m 25.45± 0.77s
37.663 N ±10.6km 118.937 W ± 7.1km
DEPTH = 5.0km (geophysicist)
CALIFORNIA-NEVADA BORDER REGION (40)
ML 2.3 (GS).

BONR	0.58	60	eP	05 36.60	-0.5
CMB	1.20	288	eP	05 47.40	-1.0
TNP	1.42	72	eP	05 52.20	0.0
KVN	1.53	25	eP	05 54.50	0.8
ARN	2.09	262	eP	06 02.50	0.9
BCH	2.64	201	eP	06 09.40	-0.2
ORV	2.76	314	e(P)	06 13.50	2.4X

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

MAR 26, 1991 09h 06m 42.22± 0.76s
37.644 N ±10.2km 118.929 W ± 6.9km
DEPTH = 5.0km (geophysicist)
CALIFORNIA-NEVADA BORDER REGION (40)
ML 2.1 (GS).

BONR	0.59	58	eP	06 53.30	-0.7
CMB	1.22	289	eP	07 04.60	-0.8
TNP	1.42	72	eP	07 09.10	0.1
KVN	1.55	25	eP	07 11.50	0.8
ARN	2.09	263	eP	07 19.00	0.6
BCH	2.63	201	eP	07 26.00	-0.1
ORV	2.78	314	e(P)	07 30.80	2.6X

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

MAR 26, 1991 09h 07m 27.88± 0.69s
37.686 N ± 9.7km 118.951 W ± 6.3km
DEPTH = 5.0km (geophysicist)
CALIFORNIA-NEVADA BORDER REGION (40)
ML 2.6 (GS).

BONR	0.58	62	iP	07 39.50	0.0
CMB	1.19	288	eP	07 50.00	-0.5
TNP	1.43	73	eP	07 54.70	0.0
KVN	1.52	26	eP	07 56.00	0.1
ARN	2.08	261	eP	08 04.60	0.7
BCH	2.66	200	eP	08 12.00	-0.2
ORV	2.73	314	e(P)	08 16.50	3.3X

S.D. = 0.5 on 6 of 7 obs.

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* MAR 26, 1991 09h 08m 02.72± 0.82s
37.572 N ± 9.5km 118.961 W ± 7.5km
DEPTH = 5.0km (geophysicist)
CALIFORNIA-NEVADA BORDER REGION (40)
MD 3.2 (GM).

BONR	0.65	54	eP	08 16.00	0.3
CMB	1.22	293	eP	08 26.00	0.1
TNP	1.47	69	eP	08 30.00	-0.1
KVN	1.62	24	eP	08 32.00	-0.3
BCH	2.55	201	e(P)	08 45.50	0.0
ORV	2.81	316	e(P)	08 52.00	2.9X

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

& MAR 26, 1991 09h 11m 49.30s
37.643 N 118.942 W
DEPTH = 6.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 3.5 (BRK).

BONR	0.60	58	iPc	12 00.40	-0.9
FRI	0.89	223	iPc	12 05.50	-1.3
			iS	12 16.80	
CMB	1.21	289	iPd	12 10.80	-1.4
			iS	12 27.30	
TNP	1.43	72	iP	12 15.80	-0.3
KVN	1.55	25	eP	12 17.70	0.0
PKEM	1.84	211	eP	12 22.30	0.7
LLA	1.90	238	iPc	12 22.80	0.2
PRI	2.04	223	ePc	12 25.00	0.3
ARN	2.08	263	eP	12 25.00	-0.2
SAO	2.18	247	iPc	12 27.00	0.4
PRS	2.34	237	iPd	12 29.70	0.7
BCH	2.62	201	eP	12 32.70	-0.3
BKS	2.62	276	eP	12 33.10	0.2
BRK	2.64	276	eP	12 33.40	0.3
ORV	2.77	314	eP	12 32.80	-2.2
ABL	2.80	185	eP	12 35.50	-0.1
BLP	3.30	201	eP	12 42.50	0.0
PEC	4.01	158	eP	12 53.00	0.3
LBFM	4.35	329	eP	13 00.00	2.4
PLM	4.60	158	eP	13 01.30	0.1

20 obs. associated

& MAR 26, 1991 09h 15m 59.40s
37.640 N 118.947 W
DEPTH = 4.0km
CALIFORNIA-NEVADA BORDER REGION (40)
<BRK>. ML 3.7 (BRK). Felt (III) at June Lake, California.

BONR	0.60	58	iPc	16 10.30	-1.1
FRI	0.89	223	iPc	16 15.50	-1.5
			iS	16 26.70	
CMB	1.20	290	iPd	16 20.90	-1.5
			iS	16 33.30	
TNP	1.44	72	iPc	16 25.80	-0.7
KVN	1.56	25	eP	16 27.50	-0.6
PKEM	1.83	211	iP	16 32.40	0.5

```
LLA      1.89 238 iPc    16 32.90   0.1
PRI      2.03 223 ePc    16 34.80  -0.1
ARN      2.08 263 eP     16 35.40  -0.1
CLC      2.12 149 eP     16 36.00  -0.1
MHC      2.16 263 ePc    16 37.00   0.2
SAO      2.18 247 iPc    16 37.00   0.1
PRS      2.34 237 iPd    16 39.50   0.2
GCC      2.51 257 eP     16 41.20  -0.4
BCH      2.62 201 eP     16 42.80  -0.5
BKS      2.62 276 eP     16 43.00  -0.2
BRK      2.64 276 ePc    16 43.20  -0.2
PCC      2.73 268 ePc    16 43.30  -1.5
ORV      2.77 315 eP     16 45.00  -0.4
ABL      2.79 185 eP     16 45.50  -0.4
NWRM     3.22 286 eP     16 53.00   1.4
BLP      3.29 201 eP     16 52.60  -0.1
PEC      4.01 158 eP     17 03.00   0.0
LBFM     4.35 329 eP     17 10.00   2.1
PLM      4.60 158 eP     17 11.20  -0.4
YKA     25.02   5 eP     21 27.00   1.4
        0.4s     0.10nm          2.9mb
        26 obs. associated
-----------------------------------------
&  MAR 26, 1991  09h 43m 21.20s
   37.640 N          118.950 W
   DEPTH =   4.0km
   3.7mb (  1 obs.)
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      <BRK>. ML 3.5 (BRK).

BONR     0.60  58 iPc    43 32.40  -0.9
FRI      0.89 223 iPc    43 37.40  -1.3
                 iS     43 48.60
CMB      1.20 290 iPd    43 42.80  -1.4
                 iS     43 59.10
TNP      1.44  72 iPc    43 47.70  -0.6
KVN      1.56  25 eP     43 49.20  -0.7
PKEM     1.83 211 eP     43 54.10   0.4
LLA      1.89 238 iPc    43 54.80   0.2
PRI      2.03 223 iPd    43 57.40   0.7
ARN      2.07 263 eP     43 57.30   0.0
MHC      2.16 263 eP     43 59.00   0.4
SAO      2.18 247 iPc    43 58.80   0.1
PRS      2.34 237 iPd    44 01.60   0.6
BKS      2.61 276 eP     44 05.20   0.3
BCH      2.62 201 eP     44 04.50  -0.6
BRK      2.63 276 eP     44 05.20   0.0
ORV      2.77 315 eP     44 06.70  -0.4
ABL      2.79 185 eP     44 07.50  -0.2
PEC      4.01 158 eP     44 25.20   0.4
PLM      4.60 158 eP     44 34.00   0.6
YKA     25.03   5 eP     48 52.40   5.0
        1.0s     1.60nm          3.7mb
        20 obs. associated
-----------------------------------------
?  MAR 26, 1991  10h 00m 38.32± 3.00s
   31.334 S ±30.3km  179.158 E ±26.6km
   DEPTH = 449.2 ± 31.9 km
   4.4mb (  1 obs.)
 KERMADEC ISLANDS REGION          (177)

PUZ      6.76 186 eP     02 21.20  -0.4
                 eS     03 44.40
NOZ      7.32 187 eP     02 28.40   0.8
PGZ      9.55 193 eP     02 53.00   0.8
MNG      9.73 197 eP     02 52.90  -1.2
                 eS     04 45.80
KIW     10.11 199 eP     02 58.10  -0.2
MTW     10.24 196 eP     02 59.50  -0.2
CAW     10.30 198 eP     02 59.80  -0.6
BLW     10.44 195 eP     03 02.80   0.8
MRW     10.51 199 eP     03 01.40  -1.2
KHZ     11.94 201 eP     03 19.50   1.3
WRA     41.71 275 P      07 48.00   0.2
        0.3s     4.60nm          4.4mb
KAF    144.56 338 iPKP   19 18.40  -4.7X
        0.4s     2.20nm
NUR    146.29 337 iPKP   19 24.90  -1.1
        0.7s    13.30nm
NB2    149.24 349 PKP    19 31.00   0.3
        0.7s     2.20nm
HFS    149.61 346 ePKP   19 31.80   0.6
        0.4s     0.70nm
      S.D. = 1.0  on  14 of  15 obs.
-----------------------------------------
%  MAR 26, 1991  10h 20m 10.74± 0.97s
   36.905 N ±11.8km   29.523 E ± 6.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)

ELL      0.35 117 iPg    20 17.80  -0.1
                 iSg    20 24.20
BCK      1.02  57 iPn    20 30.40   0.4
YER      1.02 283 ePn    20 29.80  -0.3
CIN      1.34 302 eP     20 36.00   0.6
KHL      1.42 360 ePn    20 36.00  -0.6
      S.D. = 0.7  on   5 of   5 obs.
-----------------------------------------
   MAR 26, 1991  10h 24m 23.98± 0.23s
   21.867 N ± 3.2km  121.610 E ± 4.5km
   DEPTH =  10.0km  (geophysicist)
   5.3mb ( 39 obs.)  5.5Msz (  7 obs.)
 TAIWAN REGION                    (243)
      CENTROID, MOMENT TENSOR     (HRV)
      Doto Used: GDSN
      L.P.B.: 16S, 31C
      Centroid Locotion:
      Origin Time        10:24:25.7 1.2
      Lot 22.46N 0.11 Lon 122.33E 0.10
      Dep  15.0 FIX Half-duration 2.0
      Moment Tensor;   Scale 10**17 Nm
        Mrr=-1.02 0.06  Mtt= 0.91 0.08
        Mff= 0.11 0.08  Mrt=-0.82 0.24
        Mrf= 0.44 0.16  Mtf= 0.56 0.08
       Principal Axes:
        T  Val=  1.34  Plg=15  Azm=161
        N        0.21      26      258
        P       -1.55      59       44
      Best Double Couple:Mo=1.5*10**17
       NP1:Strike=219 Dip=38 Slip=-136
       NP2:         91     65      -61

TWG      1.07 332 eP     24 43.00  -1.2
                 eS     24 55.30
TWF1     1.51 349 eP     24 49.40  -1.6
TWD      2.20 360 ePc    24 59.80  -1.3
TWC      2.74   5 eP     25 07.50  -1.2
ANP      3.31 359 iP     25 19.00   2.1
                 eS     25 40.50
PIP      3.64 195 iPd    25 21.50  -0.1
                 iS     26 07.00
QZH      4.13 318 ePn    25 26.60  -1.9
      Z  16s    38.00um
                 Sn     26 14.40
CVP      4.15 177 iPd    25 29.00   0.3
                 eS     25 57.00
SZP      4.43 194 ePd    25 33.50   0.8
                 eS     26 35.00
BAG      5.51 190 ePc+   25 47.00  -1.3
HKC      6.91 275 eP     26 06.30  -1.5
                 eS     27 38.00
QCP      7.21 184 eP     26 23.00  11.0X
MCO      7.48 273 iP     26 15.00  -0.8
GZH      7.74 281 P      26 17.00  -2.4
      Z  12s    16.30um
      N  11s    11.10um
      E  10s     5.90um
                 S      27 43.20
PGP      8.34 184 eP     26 30.00   2.1
SSE      9.20 358 Pc     26 38.00  -1.6
      Z  20s    21.20um
      N  10s     6.90um
      E  10s     7.30um
                 pP     26 46.00
NJ2     10.44 347 Pc     26 54.80  -1.9
      Z  18s    12.00um
      N  14s    17.60um
WHN     10.82 324 eP     27 06.70   4.8X
      Z  14s    11.20um
      N  11s    15.60um
      E  11s    11.60um
                 eS     29 10.00
PLP     11.12 163 eP     27 07.00   0.9
        1.6s     14.00nm         5.1mb
QIZ     11.39 258 eP     27 06.00  -3.8X
      N  12s     5.10um
      E  12s     8.80um
                 eS     29 20.00
MAP     11.70 168 eP     27 13.00  -1.0
CGP     13.66 167 eP     27 44.00   3.8X
        1.0s     3.00nm          4.2mb X
GYA     14.39 291 P      27 47.60  -2.3
      Z  16s     6.60um
      N  12s     7.80um
      E  12s     5.40um
                 S      30 32.60
TIA     14.82 346 eP     27 57.00   1.7
        6.0s  2400.00nm          5.9mb X
      Z  14s     5.90um          4.6Msz
      N  13s    10.60um
      E  13s     8.60um
                 eS     30 41.50
XAN     16.49 320 P      28 17.50   0.4
        4.0s  1400.00nm          5.4mb X
      N  14s    11.30um
      E  13s     7.40um
                 S      31 22.40
                 SS     31 42.00
DL2     16.98   0 iPc    28 26.00   2.9X
      Z  16s     6.00um
      N  15s    10.30um
      E  15s    10.60um
KMI     17.61 284 Pd     28 33.00   1.7
        2.5s   300.00nm          5.0mb
      Z  11s     0.80um          2.8MszX
      E  13s     4.30um
                 S      31 55.00
TIY     17.67 335 Pd     28 34.00   2.2
        8.0s  3700.00nm          5.6mb X
      Z  16s    35.50um          5.0Msz
      N  14s    27.30um
      E  12s    15.40um
TSM     17.87 192 ePc    28 35.00   0.6
CD2     18.34 303 eP     28 40.00  -0.2
        1.0s   200.00nm          5.2mb
      Z  16s    11.80um          4.4Msz
                 S      32 06.00
TSRJ    18.53  40 eP     28 45.70   3.3X
BJI     18.70 347 eP     28 47.00   2.6
        6.0s  1460.00nm          5.4mb X
      Z  16s    11.60um          4.7Msz
      N  14s     6.80um
                 eS     32 08.00
LOE     19.24 260 eP     28 53.00   1.8
IIDJ    19.67  43 P      28 59.20   3.0X
SNY     19.97   4 Pc     28 58.00  -1.2
      Z  15s    11.20um
      N  14s     6.70um
      E  14s     5.30um
                 PP     29 22.00
                 S      32 43.00
MTMJ    20.32  40 P      29 07.80   4.7X
PCT     20.46 253 eP     29 08.00   3.5X
MAT     20.54  41 P      29 07.00   1.7
CHJJ    20.72  43 eP     29 06.60  -0.5
HHC     20.75 338 P      29 07.40  -0.1
        1.4s   100.00nm          5.0mb
      Z  18s    19.90um          5.5Msz
      N  15s     6.30um
      E  15s     9.20um
                 sP     29 15.00
LZH     20.98 316 iPd    29 11.50   1.5
        4.0s  1880.00nm          5.8mb X
      Z  19s     9.46um          5.2Msz
      N  10s     4.02um
                 pP     29 18.00  24kmX
                 PP     29 36.50
                 S      33 03.00
                 sS     33 11.00
BTO     21.10 335 P      29 11.50   0.4
                 pP     29 19.00  27kmX
NST     21.24 257 eP     29 18.50   6.0X
CHG     21.47 266 iPc    29 16.10   1.3
        1.0s    92.00nm          5.1mb
                 eS     33 20.00
NIIJ    21.48  41 eP     29 15.90   1.1
KAKJ    21.57  44 eP     29 10.70  -5.0X
BDT     21.79 262 eP     29 18.90   0.9
        1.1s   133.20nm          5.3mb
CN2     22.11   7 Pc     29 20.00  -1.1
        5.0s  1200.00nm          5.6mb X
      Z  20s    27.00um          5.7Msz
      N  15s     6.40um
      E  15s     6.80um
                 pP     29 30.00  37kmX
YAMJ    22.71  40 eP     29 26.80  -0.3
NNT     22.82 250 eP     29 23.00  -5.3X
KHT     22.94 256 eP     29 31.00   1.5
PJG     23.61 107 eP     29 15.80 -20.2X
MDJ     23.63  14 eP     29 36.60   0.6
        6.0s  3900.00nm          6.2mb X
```

26d 10h

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      Z  16s      8.90um              5.3MszX
      N  14s      8.30um
      E  13s      5.90um
GUA      23.67 107 eP     29 15.60 -21.0X
         0.8s   137.31nm
OFUJ     24.27  41 eP     29 44.30   2.1
SNG      24.97 237 eP     29 51.60   2.3
                   eS     34 16.00
GTA      25.53 318 iPc    29 56.00   1.5
         1.4s   130.00nm            5.4mb
      E  13s      6.80um
                   S      34 22.00
                   sS     34 32.00
IPM      26.33 232 ePc    30 01.90  -0.1
         1.0s   115.70nm            5.5mb
KGM      26.57 225 ePd    30 06.00   1.8
SHL      27.44 284 eP     30 13.50   1.2
                   eS     39 04.00
ASAJ     28.19  33 eP     30 21.00   2.3
LSA      28.45 292 eP     30 24.60   2.8X
                   S      35 13.00
PSI      29.14 232 ePc    30 30.40   2.9X
WMQ      35.56 316 P      31 25.00   1.5
         6.0s   800.00nm            5.8mb X
      Z  16s      3.90um            5.3MszX
                   PP     32 48.00
                   eS     37 01.00
NDI      40.53 289 eP     32 06.00   0.9
HYB      40.70 272 eP     32 08.00   1.4
         2.0s   194.40nm            5.5mb
KSH      42.50 305 P      32 21.00  -0.3
      E  12s      4.30um
                   pP     32 31.00  34kmX
GBA      42.75 267 Pc     32 23.50   0.1
         1.0s    22.80nm            4.9mb
WRA      43.38 162 P      32 25.50  -2.9X
KOD      43.82 262 eP     32 34.50   2.0
                   eS     39 09.00
QIS      45.68 156 eP     32 44.00  -2.9X
BOM      45.69 275 iP     32 49.80   2.7X
                   eS     39 21.80
ASPA     46.81 164 iPd    32 53.50  -2.4
         1.2s    14.90nm            4.9mb
                   S      39 37.80
WARB     48.01 174 iPd    33 24.50  19.2X
CTA      48.15 148 iPc    33 05.40  -1.0
         1.1s    40.51nm            5.4mb
                   iS     40 02.00
MEKA     48.29 184 iPc    33 05.50  -1.8
SVO      48.53 125 P      33 12.00   2.6X
HNR      48.81 126 eP     33 11.00  -0.6
KLB      53.28 184 eP     33 43.00  -2.2
NWAO     54.64 185 eP     33 53.00  -2.2
ADK      55.70  41 e(P)   34 12.30   9.6X
STK      56.77 160 eP     34 26.40  15.8X
         1.3s     7.70nm
COO      59.71 150 iPc    34 27.40  -3.8X
ANM      63.18  28 eP     34 55.90   1.7
TAB      65.57 303 e(P)   35 11.00   0.6
BRW      66.79  20 eP     35 20.10   2.7X
TTA      67.32  29 eP     35 21.40   0.4
IMA      68.10  26 e(P)   35 27.40   1.4
         1.2s     7.70nm            4.8mb
RYD      68.12 289 ePc    35 27.80   1.1
PMR      70.67  30 eP     35 42.10   0.5
         1.0s    14.60nm            5.1mb
FBA      70.68  27 eP     35 42.10   0.5
KEV      71.27 339 iP     35 46.10   1.0
         0.7s    17.40nm            5.3mb
SOD      71.93 336 iP     35 49.40   0.3
TOA      71.95  30 eP     35 50.00   0.6
KVT      72.74 308 eP     35 59.20   4.7X
KAF      73.36 331 eP     35 57.00  -0.5
         0.2s     1.10nm            4.6mb
KAS      74.33 309 iPc    36 05.40   1.7
NUR      74.57 329 iP     35 45.20 -19.4X
         1.0s   224.00nm
      Z  16s      5.00um            5.9MszX
                   LR     12 08.00
BHL      74.93 301 P      36 06.00  -1.4
HRI      75.04 300 iPc    36 09.10   1.1
MBC      75.43  12 eP     36 09.00  -0.3
         1.0s     7.00nm            4.7mb
BBTK     75.48 307 iPc    36 01.00  -9.5X
                   e      36 20.00  70kmX
JVI      75.74 299 iPc    36 13.30   1.3
RMN      76.75 298 iPc    36 18.70   0.9
CFR      77.16 314 eP     36 20.00   0.4
EYL      77.18 309 eP     36 19.70  -0.3
YLV      77.75 309 iP     36 22.20  -0.8
UPP      78.09 330 iP     36 23.80  -0.5
ISR      78.26 314 eP     36 31.00   5.3X
MLR      78.54 314 eP     36 28.00   0.6
ELL      78.55 305 iP     36 27.30  -0.3
KCT      78.58 309 iP     36 28.70   1.1
DST      78.59 308 eP     36 26.00  -1.7
DAG      78.72 351 eP     36 27.00  -0.6
BUC      78.80 313 iPc    36 27.00  -1.6
KGT      79.28 309 eP     36 30.00  -1.3
HFS      79.77 331 eP     36 32.30  -1.2
         0.8s    22.80nm            5.2mb
      Z  17s      6.98um            6.1MszX
                   LR     09 31.00
IZM      80.00 307 eP     36 35.20  -0.1
NB2      80.45 332 P      36 36.10  -1.1
         1.0s    30.00nm            5.2mb
KRA      80.68 320 ePc    36 39.10   0.5
         0.9s    48.00nm            5.5mb
                   i      36 40.50   4kmX
                   i      36 47.20
SPC      80.83 319 eP     36 36.80  -2.9X
BZS      81.34 316 eP     36 42.00  -0.1
PSZ      81.54 318 eP     36 44.10   0.8
BUD      82.25 318 eP     36 47.40   0.5
VAY      82.32 311 iP     36 47.20  -0.2
KSP      82.49 322 eP     36 48.00   0.0
         1.0s    29.00nm            5.4mb
                   i      36 50.50   8kmX
SRO      82.56 319 eP     36 48.70   0.3
SKO      82.85 312 iP     36 50.50   0.4
ZST      83.14 319 eP     36 51.90   0.5
VKA      83.58 320 e(P)   36 54.00   0.3
         3.8s   737.00nm            6.3mb X
OHR      83.63 312 eP     36 53.00  -1.2
BRG      83.81 323 iP     36 54.60  -0.2
         2.0s    68.00nm            5.5mb
PRU      83.87 322 eP     36 55.50   0.4
         1.5s    62.60nm            5.6mb
      Z  17s      2.10um            5.6MszX
      N  16s      1.10um
      E  16s      1.40um
                   e      37 00.50  16kmX
CLL      84.13 323 iPc    36 56.50   0.1
         1.2s    34.00nm            5.5mb
      Z  17s      3.00um            5.7MszX
KHC      84.82 321 P      37 00.70   0.7
      Z  18s      2.00um            5.5Msz
      N  18s      1.00um
      E  18s      1.40um
                   e      37 06.00  17kmX
YKA      84.94  23 eP     36 58.50  -1.8
         0.9s     5.20nm            4.8mb
KMR      84.99 320 iP+    37 02.20   1.4
MOX      85.22 323 eP     37 02.00   0.1
VBY      85.45 317 ePd    37 10.40   7.2X
NAI      85.65 267 iPc    37 08.00   3.0X
LJU      85.66 318 e(P)   37 04.50   0.3
CEY      85.86 318 eP     37 04.60  -0.7
KBA      85.91 319 iPc    37 05.30  -0.4
         1.2s    27.40nm            5.3mb
                   i      37 06.80   5kmX
VOY      86.06 318 eP     37 05.90  -0.4
TRI      86.29 318 e(P)   37 06.00  -1.3
                   e(S)   46 46.00
                   e(SP)  47 28.00
                   e      48 28.00
                   e      54 34.00
WTTA     86.85 320 iPc    37 11.00   0.7
CIO      87.86 316 eP     37 15.12   0.0
CDF      88.79 323 eP     37 17.80  -1.7
RMW      90.58  37 P      37 28.50   0.6
LPG      90.66 320 eP     37 28.30  -0.2
         0.9s    13.10nm            5.2mb
LPL      90.66 320 eP     37 28.20  -0.3
         1.3s    32.50nm            5.5mb
PNT      90.72  35 eP     37 30.00   1.6
         0.8s     6.00nm            4.9mb
PGF      90.83 317 eP     37 28.20  -0.9
         0.9s    29.50nm            5.6mb
LON      90.97  38 P      37 30.70   1.0
LOR      91.34 323 eP     37 29.40  -1.9
         1.1s    18.30nm            5.3mb
      Z  20s      1.73um            5.5Msz
LBF      91.44 323 eP     37 29.80  -2.0
         1.0s    22.00nm            5.5mb
SSF      91.66 323 eP     37 31.00  -1.7
         1.0s    13.00nm            5.2mb
SMF      91.71 322 eP     37 31.20  -1.8
         1.1s    24.40nm            5.5mb
AVF      91.90 323 eP     37 32.20  -1.6
         1.3s    30.70nm            5.5mb
DPW      92.33  36 P      37 36.60   0.7
MAF      92.67 323 eP     37 36.20  -1.2
NEW      92.68  35 P      37 36.00  -1.5
         1.0s    12.50nm            5.3mb
TCF      92.83 323 eP     37 36.70  -1.5
RJF      93.81 322 eP     37 41.90  -0.8
         0.7s     9.90nm            5.3mb
      Z  20s      1.42um            5.4Msz
FRB      94.30   5 eP     37 44.00  -0.5
FFC      95.09  24 eP     37 49.00   0.6
         0.8s     8.00nm            5.2mb
BCAO    100.43 279 ePdiff38 14.10    0.7
         0.8s     7.00nm            5.3mb
MEO     111.95  35 e(PKP)43 01.50    0.1
TUL     112.51  32 ePKP  42 58.60   -3.8X
         0.8s    23.50nm
      Z  22s      0.43um            5.0Msz
                   e      52 10.00
                   LR     55 33.70
KIC     120.43 292 (PKP) 43 17.00   -1.1
     S.D. = 1.2  on 137 of 170 obs.
------------------------------------------------
  MAR 26, 1991  10h 35m 28.95± 0.60s
  10.306 N ± 3.5km   62.424 W ± 4.6km
  DEPTH =  22.8 ±  4.6 km
  4.8mb ( 14 obs.)  4.3Msz (  1 obs.)
 NEAR COAST OF VENEZUELA            ( 97)
     MD 5.0 (TRN). Felt (III) in
     northern Trinidod.

TCE       0.77  59 iPc    35 41.42  -2.1
TPP       0.96  89 iPd    35 46.10  -0.7
TRN       1.06  71 iPd    35 46.28  -2.1
                   eS     35 58.78
TBH       1.35  82 iPd    35 52.68   0.2
                   eS     36 07.68
PALR      1.62 295 iP     35 59.40   3.0X
                   iS     36 09.10
PIG       1.77  61 eP     35 59.17   0.6
                   eS     36 23.53
TPR       1.84  61 eP     36 00.90   1.3
BOT       1.88  63 eP     36 00.91   0.7
                   eS     36 25.42
GRW       1.99  22 eP     36 02.30   0.5
                   eS     36 27.27
FCV       3.06  22 eP     36 17.21   0.2
FCV       3.06  22 eP     36 17.25   0.3
                   eS     36 51.10
GUAN      3.19 264 iP     36 22.00   3.0X
                   iS     36 51.50
SVV       3.22  21 eP     36 17.40  -1.9
                   eS     36 55.74
SLB       3.75  21 eP     36 26.91   0.0
LLAV      4.32 273 iP     36 38.00   3.1X
                   iS     37 28.70
OLLA      4.32 267 iP     36 37.40   2.4X
                   iS     37 28.20
BIM       4.39  17 iPd    36 36.33   0.4
                   S      37 24.80
CAR       4.44 273 iP     36 40.00   3.4X
                   iS     37 31.80
MVM       4.48  19 iPd    36 37.37   0.2
FDF       4.57  16 iPd    36 38.85   0.3
CRM       4.66  18 iPd    36 40.81   1.1
DPMT      5.03  12 eP     36 45.22   0.3
                   eS     37 41.10
OBCT      5.04  12 eP     36 45.31   0.1
                   eS     37 41.22
MDN       5.08  11 eP     36 46.07   0.4
                   eS     37 43.25
BBL       5.27  10 eP     36 48.37   0.0
PAG       5.74   7 eP     36 55.90   0.9
                   S      38 55.90
DOG       5.75   8 eP     36 55.51   0.4
CEOS      5.96 258 iP     36 59.00   0.8
SFG       6.03  11 eP     36 59.60   0.5
DEG       6.12  12 eP     37 00.00  -0.3
SEG       6.13   8 eP     37 01.06   0.7
MGH       6.38   2 eP     37 04.55   0.5
BPA       6.72   5 eP     37 09.13   0.2
```

			eS	38	24.46	
TOV	7.28	267	ePn	37	19.20	2.5X
			i(Sn)	38	40.80	
CAYA	18.51	238	P	39	49.50	3.1X
COTA	18.67	239	eP	39	49.50	1.2
VC1	19.26	237	eP	39	56.00	0.4
SIV	26.16	177	P	41	03.60	0.0
ZOBO	27.00	192	eP	41	12.00	0.1
	Z 20s		0.88um			4.3Msz
			S	46	04.00	
			LR	49	40.00	
CNCB	27.50	192	P	41	18.00	1.5
CCH	27.76	188	P	41	25.00	6.5X
JSC	29.44	327	P	41	32.70	-0.5
BAO	29.47	151	ePc	41	33.70	-0.1
			e	47	12.40	
NAV	31.58	331	P	41	52.00	-0.2
TKL	31.84	326	P	41	53.80	-0.6
GBTN	32.09	325	P	41	56.60	0.0
PDCR	32.41	134	eP	41	57.30	-2.3
RSCP	32.81	324	P	42	03.00	0.0
	0.8s		22.04nm			5.1mb
ELC	36.12	322	P	42	30.80	-0.5
OLY	36.42	318	P	42	33.60	-0.2
FVM	37.30	322	P	42	40.00	-1.2
UYO	37.71	314	e(P)	42	43.50	-1.2
SCH	44.53	356	eP	43	40.00	-0.6
ALQ	46.96	309	eP	44	00.00	-0.3
	0.9s		6.09nm			4.6mb
ANMO	46.96	309	P	44	00.80	0.5
	0.9s		20.80nm			5.2mb
GOL	48.02	315	P	44	07.00	-1.8
	1.0s		5.00nm			4.5mb
RSSD	49.22	321	P	44	15.20	-2.6X
BW06	52.18	317	P	44	39.00	-1.4
	0.7s		4.39nm			4.5mb
MSU	52.48	311	P	44	42.80	0.0
DUG	53.50	313	P	44	49.30	-0.8
FRB	53.53	357	eP	44	47.00	-2.7X
FFC	54.20	333	eP	44	51.00	-3.9X
	0.7s		10.00nm			5.0mb
TNP	56.16	309	P	45	10.00	0.3
SES	56.43	325	ePd	45	10.20	-1.0
KVN	57.07	310	P	45	17.00	0.8
EDM	59.00	327	eP	45	27.00	-2.2X
TOL	59.30	50	eP	45	43.00	11.5X
YKA	64.05	336	eP	45	59.00	-4.0X
	0.5s		2.70nm			4.6mb
MBC	72.48	348	eP	46	53.50	-1.8
	0.6s		4.00nm			4.6mb
KBA	72.84	44	e(P)	47	00.00	1.9
	1.0s		4.50nm			4.5mb
KHC	73.12	42	eP	47	02.00	2.4
NB2	73.13	29	P	46	59.00	-0.4
	0.7s		7.60nm			4.8mb
HFS	74.21	30	eP	47	05.30	-0.3
	0.7s		11.30nm			5.0mb
UPP	76.16	31	eP	47	17.00	0.3
NUR	79.67	30	iP	47	36.80	0.8
	0.7s		16.00nm			5.2mb
KEV	80.21	21	eP	47	43.00	4.2X
BCAO	80.34	87	ePc	47	40.90	0.3
	0.6s		6.00nm			4.8mb
			id	47	48.00	
			id	51	43.00	
			id	51	50.00	
KAF	80.38	28	eP	47	39.00	-0.8
	0.5s		7.20nm			5.0mb
CHG	145.72	33	ePKP	55	08.50	0.3
CHTO	145.72	33	ePKP	55	08.50	0.3
	1.0s		6.25nm			
RMQ	146.45	237	ePKP	55	10.00	0.8
WRA	161.21	237	PKP	55	38.00	8.7X
	1.4s		1.40nm			
	S.D. = 1.0		on 66 of 82 obs.			

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* MAR 26, 1991 10h 57m 11.16± 0.77s
21.869 N ± 7.1km 121.813 E ±10.8km
DEPTH = 10.0km (geophysicist)
4.2mb (6 obs.)
TAIWAN REGION (243)

TWG	1.17	324	ePc	57	30.70	-2.3
			eS	57	49.90	
ANP	3.31	355	eP	58	09.50	5.3X
CVP	4.14	180	eP	58	16.00	0.2
			eS	59	05.00	
QZH	4.26	317	ePn	58	16.10	-1.4
SZP	4.48	197	eP	58	20.00	-0.7
			eS	59	21.00	
HKC	7.10	275	iP	58	57.30	-0.3
			iS	00	07.00	
GZH	7.93	280	P	59	10.00	0.8
SSE	9.21	357	e(P)	59	32.50	5.6X
	Z 20s		1.60um			
	N 10s		0.70um			
GYA	14.56	291	P	00	39.20	-0.1
			S	03	20.00	
XAN	16.61	320	Pd	01	07.00	1.2
TIY	17.75	335	eP	01	23.40	3.4X
	Z 14s		2.50um			
	N 13s		1.80um			
			S	04	35.00	
CD2	18.49	303	eP	01	30.50	1.2
BJI	18.74	346	eP	01	40.00	7.9X
HHC	20.82	338	eP	01	54.00	-1.4
LZH	21.11	316	eP	01	57.50	-1.0
	2.0s		89.00nm			4.8mb
	Z 15s		0.43um			4.0MszX
			PP	02	22.50	
BTO	21.18	334	eP	02	02.00	2.9
CHG	21.65	266	eP	02	04.00	0.1
CN2	22.08	7	eP	02	08.50	0.5
GTA	25.66	318	eP	02	44.40	1.5
	1.2s		10.00nm			4.4mb
WMQ	35.69	316	eP	04	12.00	0.3
GBA	42.94	267	Pd	05	11.80	-0.3
	0.8s		2.60nm			4.0mb
KAF	73.45	331	eP	08	45.00	-0.2
HFS	79.86	331	eP	09	21.60	0.4
	0.4s		1.10nm			4.2mb
NB2	80.53	332	P	09	24.80	-0.1
	0.8s		1.90nm			4.1mb
YKA	84.87	23	eP	09	45.80	-1.3
	0.8s		0.50nm			3.8mb
	S.D. = 1.2		on 21 of 25 obs.			

? MAR 26, 1991 11h 01m 47.41± 3.95s
22.431 N ±84.9km 122.025 E ±21.3km
DEPTH = 10.0km (geophysicist)
3.9mb (2 obs.)
TAIWAN REGION (243)

TWG	0.96	294	eP	02	05.10	-0.6
			eS	02	24.10	
QZH	4.02	309	ePn	02	50.20	-0.1
			Sn	03	35.30	
CVP	4.71	182	eP	02	51.00	-9.2X
GZH	8.04	276	eP	03	50.00	3.0X
			S	05	11.00	
XAN	16.32	318	eP	05	43.00	4.7X
CD2	18.36	301	eP	06	05.00	1.1
HHC	20.38	337	eP	06	32.60	5.5X
NB2	80.13	332	P	13	58.70	-0.3
	0.9s		1.40nm			3.9mb
YKA	84.28	23	eP	14	20.30	-0.1
	0.8s		0.60nm			3.9mb
	S.D. = 0.9		on 5 of 9 obs.			

MAR 26, 1991 11h 02m 12.56± 0.46s
37.645 N ± 5.4km 118.909 W ± 5.0km
DEPTH = 5.0km (geophysicist)
CALIFORNIA-NEVADA BORDER REGION (40)
ML 2.8 (GS).

BONR	0.57	57	iPc	02	23.70	-0.4
FRI	0.91	225	iPc	02	29.10	-1.3
			iS	02	39.70	
CMB	1.23	289	eP	02	34.60	-1.4
			iS	02	50.50	
TNP	1.41	71	eP	02	38.90	-0.2
KVN	1.54	24	eP	02	41.00	0.1
PKEM	1.85	212	eP	02	45.50	0.3
LLA	1.92	238	ePc	02	46.50	0.2
PRI	2.06	224	eP	02	48.80	0.5
ARN	2.11	263	eP	02	48.80	-0.2
SAO	2.21	247	eP	02	50.70	0.3
PRS	2.37	237	iPd	02	53.20	0.5
BCH	2.63	201	eP	02	56.40	-0.1
ORV	2.79	314	e(P)	03	00.00	1.3
ABL	2.80	185	eP	02	59.40	0.3
	S.D. = 0.8		on 14 of 14 obs.			

? MAR 26, 1991 11h 03m 22.81± 1.92s
41.056 N ±18.9km 29.310 E ±12.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ISK	0.19	273	ePg	03	27.60	0.6
			eSg	03	30.60	
HRT	0.36	131	iPg	03	30.30	0.1
YLV	0.49	174	iPg	03	32.70	-0.1
CTT	0.67	278	ePg	03	35.60	-0.6
	S.D. = 0.8		on 4 of 4 obs.			

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* MAR 26, 1991 11h 47m 04.10± 1.00s
22.437 S ± 9.3km 69.813 W ±14.1km
DEPTH = 50.6 ± 10.8 km
4.3mb (1 obs.)
NORTHERN CHILE (123)
Felt (IV) at Tocopilla and (III) at Mario Eleno.

ANT	1.38	204	iP	47	27.20	-0.1
			iS	47	45.20	
SLA	4.57	121	ePc	48	20.20	7.6X
CNCB	5.86	17	P	48	34.00	2.9X
LPB	6.09	16	eP	48	34.00	-0.3
	1.1s		151.90nm			5.4mb X
			i	48	38.00	
CCH	6.10	35	P	49	33.20	58.9X
ARE	6.15	345	eP	48	31.00	-4.0X
			iS	49	36.00	
ZOBO	6.34	15	P	48	39.00	1.1
SIV	10.45	54	P	49	33.20	-1.0
PEL	10.69	184	eP	49	56.50	19.1X
PPD	17.14	92	(P)	51	19.00	17.3X
VAO	21.08	96	eP	51	46.90	0.4
			e	51	58.00	
KIC	69.77	74	(P)	58	11.70	0.2
YKA	91.79	341	eP	00	06.20	-1.0
	0.5s		0.60nm			4.3mb
WRA	131.72	211	PKP	06	14.00	0.1
	1.4s		0.50nm			
GBA	147.70	100	PKPc	06	43.00	0.5
	0.6s		1.30nm			
	S.D. = 0.9		on 9 of 15 obs.			

? MAR 26, 1991 11h 57m 54.51± 6.36s
31.880 S ±43.6km 71.255 W ±50.9km
DEPTH = 33.0km (normal)
NEAR COAST OF CENTRAL CHILE (135)

ROCH	1.11	169	iPd	58	14.50	0.5
			iS	58	27.50	
TACH	1.79	171	iPc	58	23.40	-0.2
			iS	58	44.20	
PCH	1.84	160	eP	58	24.20	-0.3
			i	58	45.00	
			i	58	46.00	
LNV	2.07	184	iP	58	27.50	-0.1
			iS	58	52.00	
TCA	5.71	86	ePc	59	19.30	0.0
			(S)	00	22.30	
	S.D. = 0.5		on 5 of 5 obs.			

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* MAR 26, 1991 12h 03m 40.95± 0.91s
38.389 N ±10.3km 22.701 E ±11.5km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 3.0 (ATH).

ATH	0.90	117	iPnc	03	58.50	0.3
			eSn	04	11.50	
VLS	1.67	263	ePb	04	11.00	0.6
VLI	1.68	174	ePn	04	10.00	-0.5
			eSn	04	31.50	
KZN	2.05	340	ePn	04	17.00	1.1
OHR	3.09	332	e(Pn)	04	29.20	-1.5
	S.D. = 1.4		on 5 of 5 obs.			

? MAR 26, 1991 12h 07m 48.36± 2.52s
22.070 N ±13.2km 122.053 E ±35.4km
DEPTH = 10.0km (geophysicist)
3.9mb (2 obs.)
TAIWAN REGION (243)

TWG	1.18	310	eP	08	10.30	0.0
			eS	08	28.50	
TWF1	1.45	331	ePc	08	15.10	0.4
PIP	3.96	200	iPd	08	52.00	1.5

26d 12h

CVP	4.35	183	eP	08	55.00	-1.0	BMG	12.86	192	iPd	38	00.00	-1.4	ARE	35.98	182	eP	41	57.00	-1.2
SZP	4.74	199	eP	09	06.50	4.9X	UPA	13.91	221	iPd	38	14.00	-1.2	GLD	35.98	311	P	41	57.40	-0.6
CHTO	21.89	266	eP	12	42.50	-1.0		1.0s		184.00nm			5.8mb		1.2s		146.46nm			5.8mb
	1.5s		11.26nm			4.1mb		Z 20s		13.83um			5.5Msz		Z 20s		25.00um			6.0Msz
YKA	84.60	23	eP	20	27.00	4.1X				S	40	46.00		GOL	36.06	311	P	41	57.20	-1.6
	0.8s		0.50nm			3.8mb	FUQ	14.55	194	eP	38	19.00	-4.9X		1.0s		90.63nm			5.7mb
	S.D. = 1.5	on	5 of	7	obs.		BOG	15.45	194	iPc	38	37.00	1.4		Z 20s		20.00um			5.9Msz
										iS	41	44.00		LPB	36.09	176	P	42	02.00	2.6
MAR	26,	1991	12h	34m	58.04±	0.12s	HBF	15.94	328	P	38	37.00	-4.4X		1.5s		444.44nm			6.2mb
19.722 N	±	2.4km		70.314 W	±	2.1km	SGS	16.21	328	P	38	38.40	-6.5X		Z 23s		17.42um			5.8MszX
DEPTH =	33.0km	(normal)					JSC	17.45	328	P	38	56.00	-4.5X				S	47	38.00	
5.5mb (	86	obs.)	5.9Msz (	26	obs.)		PRM	17.87	326	P	39	01.00	-4.7X				LR	54	12.00	
DOMINICAN REPUBLIC REGION						(88)	CBN	19.41	343	eP	39	21.00	-3.4X	CNCB	36.37	176	P	42	01.00	-0.9
Ms 6.1 (BRK), 5.8 (PAS).							NA2	19.44	342	P	39	21.00	-3.8X	SIV	36.63	165	P	42	00.00	-3.5X
Mo=1.3*10**18 Nm (PPT). Felt in							CVL	19.53	340	P	39	22.30	-3.4X	CCH	37.10	173	P	42	09.60	1.9
northern Dominicon Republic ond							BLA	19.54	335	iPc	39	23.80	-2.1	RSSD	37.15	319	P	42	07.00	-0.9
ot Santo Domingo. Also felt ot								0.8s		141.79nm			5.3mb		2.0s		132.21nm			5.5mb
Moyaguez, Puerto Rico.								Z 18s		14.78um			6.3MszX		Z 20s		13.56um			5.7Msz
CENTROID, MOMENT TENSOR						(HRV)				iS	42	46.00		BW06	40.17	314	P	42	32.00	-1.1
Dota Used: GDSN							PSO	19.65	201	eP	39	30.50	2.8X		1.0s		60.00nm			5.3mb
L.P.B.: 23S, 53C							NAV	19.78	335	P	39	26.00	-2.4	DAU	40.54	310	P	42	36.00	-0.3
Centroid Locotion:							TKL	19.82	326	P	39	26.00	-2.8	MSU	40.67	307	P	42	36.80	-0.5
Origin Time			12:34:56.5		0.6		GBTN	20.05	325	P	39	29.00	-2.3	BAO	41.43	146	eP	42	41.30	-2.2X
Lot 19.95N	0.05	Lon	69.76W		0.04		RSCP	20.76	323	P	39	37.40	-1.3	DUG	41.61	309	P	42	45.00	0.2
Dep 23.1	5.1	Half-duration			3.2			Z 22s		13.76um			5.3Msz	GLA	41.73	298	eP	42	47.00	1.2
Moment Tensor;	Scale	10**17	Nm				COTA	20.81	203	eP	39	40.50	0.6	FFC	42.41	333	eP	42	49.00	-2.0
Mrr=-0.60	0.20	Mtt=	3.30	0.24			CAYA	20.92	202	P	39	42.50	1.5		0.9s		39.00nm			5.1mb
Mff=-2.70	0.34	Mrt=-0.17		0.45			ANGL	21.21	200	eP	39	37.00	-6.9X	TPC	42.88	299	eP	42	57.00	1.8
Mrf= 0.64	0.50	Mtf=	5.37	0.25			OUR	21.35	203	eP	39	47.60	2.4	ANT	43.16	180	e(P)	42	56.00	-1.4
Principol Axes:							GMTN	21.35	352	iP	39	43.90	-0.7	LRM	43.26	317	eP	42	58.00	-0.4
T Vol=	6.46	Plg=	1	Azm=330			LVNJ	21.36	351	P	39	43.00	-1.7	PLM	43.46	298	P	42	58.20	-1.9
N	-0.53		83	228			PNJ	21.37	352	eP	39	41.40	-3.3X	PLM	43.46	298	eP	43	03.00	2.9
P	-5.93		7	60						i	39	45.30		GSC	43.66	301	eP	43	03.00	1.5
Best Double Couple:Mo=6.2*10**17										eS	43	23.60		PEC	43.77	299	P	43	03.40	1.0
NP1:Strike=104	Dip=84	Slip=	-4							PcP	43	46.90		RVR	43.96	299	eP	43	06.00	2.1
NP2:	195		86	-174			GGP	21.37	203	eP	39	47.30	1.6	FRB	44.01	1	eP	43	02.00	-1.8
							SCX	21.40	266	(P)	39	46.00	0.8		0.9s		120.00nm			5.7mb
MCP	3.30	113	P	35	48.40	-0.2	TPX	21.49	261	(P)	39	47.00	0.9	CLC	44.37	301	eP	43	07.00	-0.3
MGP	3.50	119	P	35	52.50	1.0	TBR	21.61	352	P	39	45.20	-2.0	SES	44.38	323	eP	43	07.00	-0.2
SJG	4.25	111	iP	36	01.40	-0.8	TXNY	21.64	352	iP	39	46.80	-0.7		1.1s		183.00nm			5.8mb
LPR	4.43	108	P	36	03.00	-1.8	VC1	21.74	202	eP	39	51.00	1.7	PDCR	44.39	134	eP	43	05.90	-1.6
CPD	4.49	111	P	36	04.50	-1.1	CLE	23.71	339	iP	40	08.70	0.9				e	43	14.40	
YHJ	6.13	254	eP	36	26.62	-2.1	WVLY	23.73	345	P	40	08.50	0.4				e	43	31.50	
			eS	37	37.04		BLO	23.91	328	iP	40	10.50	0.8	SBB	44.41	300	eP	43	09.00	1.4
HOJ	6.33	255	eP	36	30.60	-0.9				iS	44	28.00		TNP	44.44	305	P	43	08.00	0.0
STH	6.37	256	iP	36	22.50	-9.6X	ELC	24.06	321	P	40	10.00	-1.2		1.4s		218.75nm			5.8mb
			S	37	44.01		LVVM	24.59	274	(P)	40	17.00	0.5	MWC	44.54	299	eP	43	10.00	1.1
STH	6.37	256	eP	36	29.54	-2.6	BNH	24.81	358	P	40	20.00	1.5	PAS	44.63	299	eP	43	06.00	-3.3X
			S	37	44.83		DLA	24.94	340	P	40	19.90	0.2				ePcP	44	18.00	
PCJ	6.79	254	eP	36	36.57	-1.4	LDN	24.99	341	P	40	20.65	0.5				ePP	45	08.00	
SPJ	7.07	257	eP	36	39.61	-2.4	RSNY	25.00	353	P	40	20.00	-0.3				ePPP	46	12.00	
MGH	8.25	110	eP	36	58.02	-0.5		1.0s		151.84nm			5.5mb				eS	48	58.00	
PAG	9.00	113	eP	37	08.46	-0.4		Z 18s		14.19um			5.5Msz				eScS	53	04.00	
			S	38	49.00		ELF	25.17	341	P	40	22.30	0.5				eSS	53	42.00	
SEG	9.00	110	eP	37	06.52	-2.3	OXX	25.19	268	(P)	40	28.00	5.5X				eLg	54	28.00	
MORO	9.01	167	iP	37	08.90	-0.1	FVM	25.23	320	P	40	22.00	-0.5				eLR	56	20.00	
			iS	38	44.50		MIM	25.47	2	P	40	25.00	0.3	BONR	45.26	304	P	43	15.00	0.3
DOG	9.06	113	eP	37	09.32	-0.3	IISM	25.54	273	(P)	40	26.50	1.0	KVN	45.30	306	P	43	14.00	-0.9
SFG	9.34	110	eP	37	11.41	-2.0	UYO	25.80	309	iPd	40	27.50	-0.4	PPD	45.46	155	eP	43	13.50	-2.5X
MGG	9.37	112	eP	37	12.16	-1.7	GAC	26.26	352	eP	40	32.00	0.0				e	43	15.00	
BBL	9.40	115	eP	37	12.32	-2.0		0.6s		32.00nm			5.1mb				e	43	18.90	
DEG	9.43	110	eP	37	11.70	-3.1X				pP	40	55.00	105kmX	ABL	45.57	300	P	43	18.00	0.9
MDN	9.56	116	eP	37	13.93	-2.6	IIT	26.41	273	(P)	40	39.50	5.6X	SYP	46.16	299	eP	43	23.00	1.4
			eS	39	14.29		PPM	26.70	273	(P)	40	37.00	0.1	FRI	46.22	303	eP	43	21.80	-0.1
CAR	9.73	160	iPd	37	18.00	-0.9	CBM	27.20	3	P	40	40.00	-0.6	BCH	46.31	300	P	43	24.00	1.2
LLAV	9.80	159	iP	37	19.70	-0.2	III	27.58	272	(P)	40	45.00	0.5	ITB1	46.75	160	eP	43	23.50	-2.5X
			eS	38	47.50		TUL	27.59	311	ePd	40	42.40	-1.9	PRI	46.88	301	eP	43	26.80	-0.5
TOV	9.89	177	iPc	37	21.00	-0.1		1.2s		438.70nm			6.0mb	CMB	46.90	304	ePc	43	27.50	0.2
			iPP	37	22.50			Z 18s		21.21um			5.8Msz	ITB	46.94	160	eP	43	21.00	-6.6X
			iS	39	09.50					e	45	24.90		EDM	46.99	326	eP	43	27.00	-0.8
FDF	10.06	118	eP	37	23.70	0.2				LR	48	15.70		NEW	47.12	318	P	43	27.00	-1.9
			S	39	14.00		CRX	27.66	274	(P)	40	46.50	1.1		1.0s		130.00nm			5.9mb
OLLA	10.22	160	iP	37	26.30	0.5	BIX	27.66	311	eP	40	44.70	-0.2	LLA	47.16	302	eP	43	29.70	0.4
BIM	10.24	119	eP	37	23.70	-2.2	MRX	29.05	275	(P)	40	58.50	1.0	ITB7	47.26	160	eP	43	27.50	-2.7
CRM	10.25	117	eP	37	24.10	-1.9	MEO	29.14	307	eP	40	56.30	-2.0	SAO	47.57	302	eP	43	33.20	0.6
MVM	10.36	118	eP	37	25.80	-1.8	MZX	33.73	282	(P)	41	40.00	1.3	MHC	47.80	303	eP	43	36.30	1.8
SLB	10.64	122	eP	37	33.30	1.9X	SCH	35.14	4	eP	41	49.00	-1.5	ORV	47.99	306	eP	43	36.60	0.8
PALR	10.64	144	eP	37	30.90	-0.6		0.9s		72.00nm			5.6mb	VAO	48.19	151	eP	43	36.80	-0.8
GUAN	10.70	154	iP	37	32.20	-0.1	ALQ	35.29	303	eP	41	51.20	-1.1	MIN	48.20	307	eP	43	37.40	-0.2
			eS	39	25.80			1.0s		46.25nm			5.4mb	BKS	48.33	303	eP	43	38.40	-0.1
SDV	10.78	182	eP	37	35.00	1.6		Z 18s		20.96um			5.9Msz		1.4s		300.00nm			6.1mb
CEOS	10.80	170	iP	37	33.30	-0.3	ANMO	35.29	303	P	41	52.00	-0.3		Z 20s		8.00um			5.7Msz
			eS	39	28.30			1.2s		78.13nm			5.5mb		N 20s		16.00um			
TCE	12.19	136	eP	37	53.06	0.7		Z 20s		19.15um			5.9Msz		E 20s		12.00um			
TRN	12.46	135	eP	37	58.38	2.4X	ZOBO	35.83	176	P	41	55.00	-2.3X				eS	50	52.80	
TPP	12.67	136	eP	38	03.22	4.4X		1.0s		67.50nm			5.5mb				eLQ	53	48.40	
TBH	12.80	135	eP	38	03.36	2.8X				S	47	30.00					eLR	58	16.00	

BRK	48.35	303	eP	43	39.30	0.7			1.5s	75.75nm	5.6mb		MOX	69.95	42 eP	46	07.00	-1.1												
			eLR	59	15.60			BGF	64.46	47 eP	45	32.80	-0.8		2.4s	112.00nm	5.5mb												
PCC	48.40	303	eP	43	39.50	0.5			0.6s	17.15nm	5.3mb			Z	18s	7.50um	6.0Msz												
LBFM	48.58	308	P	43	40.00	-0.6		TIC	64.55	92 P	45	32.86	-1.8		N	16s	2.40um												
WDC	48.94	307	ePc	43	40.90	-2.2		LIC	64.68	92 P	45	33.96	-1.5		E	18s	6.10um												
PNT	49.03	319	eP	43	43.00	-0.7			Z 19s	2.50um	5.4Msz		OGA	70.04	46 iPc	46	09.70	0.7												
	0.9s	29.00nm	5.3mb							S	54	16.00		HFS	70.15	32 eP	46	08.70	-0.3											
LON	49.70	315	P	43	48.00	-0.9		AGO	64.68	48 P	45	37.19	2.1		0.9s	9.80nm	4.9mb												
GDH	50.59	8	eP	43	54.00	-1.3		AVF	64.80	47 eP	45	35.00	-0.8		Z 16s	3.30um	5.7MszX												
	1.0s	40.00nm	5.4mb						1.0s	38.00nm	5.4mb					LR	07	27.00											
		i	51	18.00			LBL	64.80	49 P	45	36.40	0.6	WTTA	70.40	46 iPc	46	11.20	0.1												
		i	55	31.00			SSF	64.90	46 eP	45	35.60	-0.8		1.6s	B2.60nm	5.5mb														
TCA	51.06	174	eP	43	56.00	-3.4X			1.6s	143.05nm	5.8mb					i	46	17.90												
MBO	51.12	87	eP	44	01.10	1.0		KIC	64.90	92 P	45	35.56	-1.4			i	46	48.40												
		eS	51	24.00					0.8s	26.00nm	5.4mb					i	47	23.20												
PGC	51.26	317	eP	44	00.00	-0.6		PLDF	65.03	48 P	45	37.50	0.1			i	47	41.90												
YKA	52.40	336	eP	44	07.00	-2.1		LOR	65.13	46 eP	45	37.00	-0.9	CTI	70.58	47 P	46	13.60	1.4											
	0.9s	52.00nm	5.5mb						0.6s	25.70nm	5.5mb		FIR	70.65	49 eP	46	22.00	9.5X											
LNV	53.39	181	eP	44	15.80	-0.8			Z 21s	2.50um	5.4Msz		SVW	70.69	329 eP	46	11.00	-1.4												
PTO	56.15	53	eP	44	40.50	3.6X		SMF	65.14	47 eP	45	37.30	-0.7	TTA	70.69	331 eP	46	11.90	-0.6											
		eS	52	14.00					1.5s	133.20nm	5.8mb		CLL	70.73	41 iPd	46	12.80	0.0											
AVE	57.13	63	iPd	44	45.50	1.4		LBF	65.22	47 eP	45	37.50	-1.1		1.7s	57.00nm	5.4mb												
		i	44	57.50					1.6s	99.50nm	5.7mb			Z	18s	3.00um	5.6Msz												
		i	45	33.00			SNF	65.30	43 Pc	45	39.80	0.9				eS	55	32.00												
EMON	57.21	51	eP	44	44.60	0.1		DOU	65.51	43 P	45	38.40	-1.8	WET	70.96	44 iPc	46	14.80	0.5											
TIO	57.42	65	iP	44	47.00	0.7			Z 18s	7.50um	5.9Msz			1.8s	111.00nm	5.6mb														
		i	45	00.50						e	45	50.00		Z	18s	8.00um	6.0Msz												
EVAL	57.53	57	eP	44	47.20	0.4				PPP	49	40.00		PGD	70.97	49 P	46	13.72	-0.9											
EPLA	58.04	55	eP	44	50.30	-0.1				S	54	29.00		SFI	71.06	49 P	46	13.30	-1.6											
ECB	58.50	40	eP	45	03.00	9.7X		TOA	66.15	330 eP	45	46.60	2.3X	CRE	71.17	49 P	46	14.39	-1.4											
EJIF	58.58	59	eP	44	55.40	1.2			1.1s	144.90nm	6.0mb		BRG	71.38	42 iP	46	16.40	-0.4												
EHOR	58.71	57	eP	44	55.10	0.0		ENN	66.33	42 eP	45	45.50	0.0		2.0s	68.00nm	5.3mb												
IFR	59.03	62	iPd	44	58.00	0.4			1.0s	58.00nm	5.6mb			Z	18s	6.00um	5.9Msz												
MAL	59.42	58	iPc	45	01.80	1.8		MEM	66.39	43 P	45	46.10	0.2		N	18s	3.00um												
		iS	53	10.00			CDR	66.72	50 ePd	45	44.90	-3.3X		E	18s	5.00um													
GUD	59.51	54	eP	45	01.10	0.4		HAU	66.77	45 eP	45	47.60	-0.8			i	46	52.60												
TOL	59.60	55	eP	45	02.00	0.8			Z 19s	10.00um	6.1Msz					eS	55	34.00												
		ePP	47	50.00			WTS	66.83	41 eP	45	49.00	0.4				e	56	42.00												
		iS	53	12.00				1.0s	116.00nm	5.9mb		KHC	71.41	44 Pd	46	17.10	0.1												
		ePS	54	30.00			FBA	67.01	333 eP	45	49.20	-0.4		1.2s	30.00nm	5.2mb														
		iSS	57	22.00				0.8s	58.62nm	5.7mb			Z	18s	5.80um	5.9Msz														
EBAN	59.86	57	eP	45	03.40	0.4	BSF	67.08	45 eP	45	49.40	-1.1		N	18s	1.60um														
ECOG	60.07	58	eP	45	05.50	0.9	RSL	67.14	48 P	45	50.83	-0.2		E	18s	4.00um														
AFC	60.09	58	eP	45	05.50	0.7	LRG	67.17	50 eP	45	49.60	-1.4				S	55	38.00												
SIT	60.11	325	e(P)	45	02.70	-1.6			1.7s	220.55nm	6.0mb		KBA	71.58	46 iPc	46	18.20	-0.1												
	1.1s	54.80nm	5.6mb				LPL	67.23	48 eP	45	51.70	0.0		1.7s	104.00nm	5.6mb														
Z	19s	14.70um	6.1Msz					0.7s	18.20nm	5.3mb					i	46	25.00												
ETOR	61.10	54	eP	45	12.30	0.8	LPG	67.25	48 eP	45	52.00	0.2			i	46	40.30												
ENIJ	61.16	58	eP	45	12.30	0.4		1.0s	31.00nm	5.4mb					i	47	03.80												
MBC	61.74	348	eP	45	14.00	-1.2	LMR	67.29	50 eP	45	51.40	-0.4			i	47	08.30												
	1.0s	45.00nm	5.6mb					1.5s	104.45nm	5.7mb					i	47	44.70												
LPF	61.81	45	eP	45	15.30	-0.8	EMS	67.32	47 ePc	45	52.40	0.2	ASS	71.78	50 P	46	18.92	-0.5											
	0.9s	31.10nm	5.4mb				CDF	67.35	45 eP	45	51.30	-0.9		1.0s	61.90nm	5.6mb														
GRR	61.94	45	eP	45	16.50	-0.4		1.1s	39.05nm	5.4mb		PRU	71.90	43 Pd	46	20.30	0.4												
	1.1s	48.85nm	5.5mb				FRF	67.37	50 eP	45	51.90	-0.4		2.0s	54.70nm	5.2mb														
ECHE	61.98	55	eP	45	18.10	0.6		1.0s	32.00nm	5.4mb			Z	18s	10.00um	6.1Msz														
FLN	62.20	45	eP	45	18.30	-0.4	ABH	67.42	43 eP	45	52.34	-0.2		N	18s	0.70um														
	0.7s	30.85nm	5.5mb				PMR	67.54	329 eP	45	52.50	-0.5		E	18s	6.20um														
MFF	62.40	47	eP	45	19.90	-0.1		1.2s	71.60nm	5.6mb					e	47	43.20												
	0.6s	27.05nm	5.6mb					Z 18s	11.40um	6.1Msz					S	55	43.00												
BTH	62.41	51 P	45	24.00	3.8X	DIX	67.65	47 ePc	45	55.20	0.9				SS	00	30.00												
		sP	45	39.00			SBF	67.90	50 eP	45	55.10	-0.6	ARV	71.91	49 P	46	19.82	-0.3												
		PcP	46	13.00				0.9s	49.15nm	5.6mb				0.1s	3.70nm	5.3mb														
		pPcP	46	24.00			TNS	67.98	43 eP	45	56.00	0.0	MNS	71.92	51 P	46	20.54	0.4												
		sPcP	46	30.00			MUD	68.01	36 iPc	45	56.50	0.5		0.1s	6.80nm	5.6mb														
LDF	62.43	45	eP	45	19.80	-0.4		1.4s	56.00nm	5.5mb		KMR	71.95	45 iP-	46	20.30	0.1												
	0.9s	52.40nm	5.7mb				SLE	68.22	45 ePc	45	57.60	0.0	TRI	72.10	47 ePd	46	21.00	-0.1												
ACU	62.49	56	eP	45	22.70	1.9	VAI	68.62	47 P	45	56.80	-3.2X			eS	55	44.00													
DAG	62.52	12	eP	45	19.20	-1.2	LLS	68.66	46 ePc	46	01.20	0.7			eSP	56	20.00													
	0.5s	22.54nm	5.6mb				SAX	68.85	46 ePc	46	02.00	0.2			e	01	36.00													
Z	19s	15.28um	6.2Msz				NB2	68.86	31 P	46	01.10	-0.2			iLR	09	12.00													
N	18s	7.42um						1.0s	41.00nm	5.5mb		CIO	72.11	50 eP	46	17.61	-3.7X													
EPF	62.81	51 eP	45	23.10	0.2	KUK	69.08	91 eP	46	03.00	-0.4	VOY	72.13	47 eP	46	21.30	-0.1													
EROO	62.97	54 eP	45	24.50	0.6	PGF	69.20	51 eP	46	03.10	-0.7	UPP	72.14	32 eP	46	21.00	0.0													
LFF	63.04	49 eP	45	23.90	-0.4		1.4s	74.05nm	5.6mb					iS	55	40.00														
	0.6s	27.05nm	5.6mb				BOB	69.23	49 P	46	04.40	0.5	CEY	72.55	47 eP	46	22.40	-1.4													
LPO	63.37	49 eP	45	26.00	-0.5	KOGH	69.23	91 eP	46	04.20	-0.1	LJU	72.57	47 eP	46	24.00	0.1													
	0.7s	35.30nm	5.6mb				LEGH	69.43	91 eP	46	04.60	-0.9	RIY	72.59	47 eP	46	24.10	0.1													
LSF	63.56	47 eP	45	27.10	-0.6	OSS	69.46	46 ePc	46	05.80	0.4	KSP	72.86	41 eP	46	26.00	0.5													
	1.4s	95.85nm	5.7mb				SHGH	69.47	91 eP	46	06.00	0.3	SDI	72.87	51 P	46	26.45	0.6													
RJF	63.58	48 eP	45	27.30	-0.6	IMA	69.47	334 eP	46	04.30	-0.7			0.1s	13.70nm	5.9mb														
	0.8s	33.60nm	5.5mb					1.1s	53.20nm	5.5mb		VBY	73.16	47 eP	46	30.30	2.9X													
CAF	63.98	49 eP	45	30.00	-0.5	GRF	69.81	43 ePd	46	07.30	0.0	VKA	73.35	44 eP	46	29.00	0.6													
	0.6s	22.55nm	5.4mb					Z 18s	8.00um	6.0Msz				4.2s	439.00nm	5.8mb X														
TCF	64.03	47 eP	45	30.00	-0.9				e	46	27.30			Z	16s	2.40um	5.6MszX													
	1.0s	44.00nm	5.5mb				COP	69.89	37 iP	46	08.20	0.7				e	47	23.00													
MAF	64.28	47 eP	45	32.00	-0.5			0.8s	35.82nm	5.5mb						LR	27	10.00													

26d 12h

DUI		73.35	51	P	46	29.79	1.1			N	17s	2.40um			GTA	120.46	9	ePKP	53	48.40	0.3			pP	45	22.00	29kmX
		1.7s	113.60nm				5.6mb				6.0s	430.00nm										BTO	21.45	334	eP	45	25.00	0.4
ZST		73.88	44	eP	46	32.30	0.8			Z	23s	3.60um		5.9MszX									N	13s	0.80um			
KEV		74.18	21	eP	46	35.00	2.2			N	19s	3.00um			TIY	122.82	357	ePKP	53	53.00	0.4			E	12s	0.60um			
		0.9s	30.40nm				5.3mb								LZH	124.22	6	PKP	53	59.00	3.5X	CN2	22.28	7	eP	45	34.50	1.8
				i	46	39.80												sPKP	54	10.00			Z	15s	1.40um			4.5MszX
				e	56	14.00												PP	55	43.00			N	12s	0.30um			
MGR		74.49	53	P	46	36.80	1.6								XAN	126.54	1	PKP	54	00.50	0.6			E	12s	0.30um			
ANM		74.53	333	eP	46	34.80	-0.2											PP	55	43.00					eS	49	34.00	
SOD		74.62	23	iP	46	35.60	0.2															MDJ	23.75	14	eP	45	48.50	1.4
				i	46	40.60																GTA	25.93	318	eP	46	08.60	0.4
SRO		74.75	44	eP	46	36.30	-0.2															KOD	44.14	262	eP	48	45.10	0.0
TDS		75.19	53	P	46	39.97	0.7															ASPA	46.51	165	eP	49	01.20	-2.3
		0.8s	14.60nm				5.0mb																0.9s	2.30nm				4.2mb
UZD		75.20	45	e(P)	46	39.00	-0.2																S.D. = 1.5	on	12	of	19	obs.
BUD		75.29	45	e(P)	46	40.00	0.3																					
KRA		75.30	42	eP	46	40.70	1.1															%	MAR 26, 1991 12h 44m 10.29± 1.45s					
				e	46	43.30																	18.394 N ±13.0km 67.120 W ±13.8km					
				i	46	46.30																	DEPTH = 33.0km (normal)					
GRI		75.44	54	P	46	42.70	1.9								CD2	129.34	7	ePKP	54	07.60	2.3		MONA PASSAGE					(89)
		0.2s	17.00nm				5.7mb								WHN	129.82	355	ePKP	54	08.60	2.4							
NUR		75.45	31	iP	46	40.70	0.4								HYB	132.07	42	ePKP	54	13.00	2.2	MCP	0.03	19	P	44	15.90	0.1
		0.8s	30.80nm				5.4mb											e	57	35.00		MGP	0.39	176	P	44	19.10	-0.1
	Z	16s	2.70um				5.6MszX								GYA	134.00	4	PKP	54	20.40	6.0X	SJG	0.96	107	i(P)	44	27.70	0.2
				i	46	46.00																LPR	1.19	94	P	44	30.20	-0.5
				LR	22	38.00																CPD	1.20	107	P	44	31.20	0.4
BRT		75.54	51	P	46	43.74	2.5X																S.D. = 0.5	on	5	of	5	obs.
		0.6s	28.80nm				5.4mb																					
SPC		75.69	43	eP	46	53.70	11.5X								GBA	134.13	46	PKPd	54	15.00	0.3	%	MAR 26, 1991 12h 52m 50.46± 0.86s					
KAF		75.82	29	eP	46	42.00	-0.3									1.2s	8.30nm						41.140 N ±11.0km 28.494 E ± 7.4km					
		1.1s	52.20nm				5.4mb								KMI	134.92	9	ePKP	54	19.50	3.2X		DEPTH = 10.0km (geophysicist)					
BEO		76.90	47	eP	46	50.50	1.7									Z 25s	2.30um			5.8MszX			TURKEY					(366)
TIM		77.19	46	iPc	46	53.00	2.7X								KOD	136.49	50	ePKP	54	26.30	6.6X							
BZS		77.49	46	eP	46	53.00	1.0								CHG	140.28	16	ePKP	54	25.50	-0.7	CTT	0.05	279	iPg	52	51.60	-1.0
OHR		78.12	51	iP	46	57.40	1.7								CHTO	140.28	16	ePKP	54	25.00	-1.1	DMK	0.88	321	iPg	53	07.70	0.4
		1.3s	259.00nm				6.1mb									1.0s	7.00nm								iSg	53	20.20	
				i	47	10.50									COO	140.50	246	ePKP	54	19.00	-7.3X	YLV	0.88	130	ePg	53	07.10	-0.3
				i	47	20.80									LOE	142.29	12	ePKP	54	32.50	2.8				eSg	53	22.10	
IGT		78.20	52	eP	46	57.70	1.6								RMQ	143.54	252	iPKPd	54	28.80	-2.9X	HRT	0.94	109	iPg	53	08.70	0.2
SKO		78.35	50	iP	46	57.70	0.9								KHT	144.02	18	ePKP	54	30.00	-2.7X	KGT	1.14	233	ePn	53	12.30	0.6
	Z	17s	2.73um				5.7MszX								TOO	144.17	233	ePKP	54	32.00	-0.5		S.D. = 0.9	on	5	of	5	obs.
	N	17s	2.42um												PCT	144.86	14	ePKP	54	39.00	4.9X							
	E	17s	2.34um												CMS	145.52	243	e(PKP)	54	35.00	0.1		MAR 26, 1991 13h 16m 32.17± 0.55s					
				iS	56	53.00									CTA	145.66	263	iPKPc	54	35.90	0.5		37.799 N ± 6.2km 21.937 E ± 3.8km					
				LR	26	52.00										1.3s	92.31nm						DEPTH = 10.0km (geophysicist)					
FNA		78.63	51	eP	46	59.50	1.0								NNT	146.43	18	ePKP	54	34.00	-2.8X		4.2mb (3 obs.)					
GRG		79.33	50	iPd	47	03.70	1.5								BFD	146.50	232	ePKP	54	37.00	0.7		SOUTHERN GREECE					(368)
VAY		79.34	50	iP	47	03.50	1.3											e	54	49.70			ML 3.9 (ATH).					
KNT		79.63	50	eP	47	05.30	1.5								BSI	151.22	31	ePKP	54	50.00	5.7X							
AGG		79.84	52	iP	47	06.60	1.6								SNG	151.82	19	ePKP	54	53.00	7.8X	VLS	1.13	290	ePb	16	52.00	-1.3
CMP		79.90	46	ePc	47	06.00	0.8								QIS	151.91	263	ePKP	54	45.00	-0.2	AGG	1.26	14	ePd	16	55.22	-0.4
SOH		80.06	50	eP	47	07.80	1.6								IPM	154.39	20	ePKPc	54	54.60	5.8X				eS	17	12.70	
SRS		80.14	50	eP	47	07.90	1.3								PSI	155.34	27	ePKPc	54	54.50	4.5X	VLI	1.34	143	iPbd	16	58.30	1.4
MLR		80.43	45	ePd	47	10.00	1.8								WRA	156.81	265	PKP	55	10.00	18.1X	ATH	1.42	82	ePb	16	59.00	1.0
				e	55	36.00										0.8s	8.40nm								eSb	17	20.00	
				e	18	38.00									ASPA	157.17	256	ePKP	54	52.90	0.6	IGT	2.14	325	ePc	17	11.38	3.0X
CVO		80.48	45	eP	47	11.00	2.7X									1.8s	8.80nm					KZN	2.51	357	ePn	17	15.70	2.0
PAIG		80.56	51	eP	47	10.10	1.3									S.D. = 1.1	on 312 of 372 obs.					PAIG	2.52	32	ePd	17	13.02	-0.8
VRI		80.83	45	ePd	47	11.00	0.9															KEK	2.54	319	iPnc	17	14.50	0.4
ALN		81.97	50	eP	47	17.40	1.3			•	MAR 26, 1991 12h 40m 33.97± 0.87s											FNA	3.01	352	ePd	17	22.90	2.1
CFR		82.01	45	eP	47	17.00	0.8				21.651 N ± 7.3km 121.992 E ±19.8km											GRG	3.17	6	ePd	17	23.30	0.2
EZN		82.52	50	eP	47	20.20	1.2				DEPTH = 10.0km (geophysicist)											SOH	3.21	20	ePc	17	24.38	0.7
KGT		83.02	50	eP	47	22.00	0.4				4.2mb (1 obs.) 3.7Msz (1 obs.)														eS	18	02.30	
RUV		83.33	251	eP	47	25.00	1.5				TAIWAN REGION										(243)	OHR	3.42	345	iPn	17	28.60	1.9
		1.3s	75.00nm				5.7mb																0.9s	193.00nm				
KCT		83.85	50	iP	47	28.60	2.7X																		iSn	18	05.50	
ITU		84.01	49	eP	47	32.00	5.4X																		Lg	18	37.40	
DST		84.27	50	eP	47	29.00	1.0															KNT	3.44	12	iPc	17	26.70	-0.2
YLV		84.46	49	iP	47	29.10	0.1																		iS	18	09.00	
HRT		84.58	49	eP	47	32.00	2.5															VAY	3.55	8	iPn	17	30.60	2.2
YER		84.89	52	eP	47	32.00	0.8															SRS	3.55	21	iPc	17	28.20	-0.3
EYL		85.02	49	eP	47	32.20	0.4																		iS	18	11.00	
KHL		85.38	51	eP	47	34.00	0.3															PRK	3.69	66	ePn	17	31.00	0.5
ELL		86.24	52	iP	47	39.30	1.3															NPS	3.89	129	ePn	17	34.50	1.1
BCK		86.48	52	eP	47	39.00	-0.1															EZN	3.98	58	ePn	17	33.00	-1.5
BBTK		87.14	49	eP	47	44.00	1.7															LCI	4.00	310	P	17	34.00	-0.8
BCAO		87.44	86	iPd	47	45.00	0.9																		eSn	18	19.50	
		0.6s	28.00nm				5.7mb															SKO	4.19	355	ePn	17	48.60	11.2X
				ic	48	19.10																			i	17	59.60	
KVT		B8.91	47	eP	47	50.00	-0.7																		i	18	26.90	
WIN		95.09	112	eP	48	20.00	0.4															IZM	4.24	80	iPn	17	38.70	0.4
		1.0s	15.00nm				5.4mb															RDO	4.35	39	ePn	17	41.00	1.2
WMO		113.63	17	ePKP	53	31.50	-3.4X															SOI	4.66	275	P	17	44.50	0.3
	Z	20s	2.30um				5.8Msz															TDS	4.76	295	P	17	47.00	1.4
				PP	54	32.00																BRT	4.79	311	P	17	46.00	0.0
BJI		120.24	354	ePKP	53	51.50	4.0X															ORI	4.84	300	P	17	45.00	-1.8
	Z	22s	3.07um				5.9Msz															KGT	4.94	56	ePn	17	47.30	-0.9

```
YER      5.09   96 ePn    17 50.00   -0.4
MGR      5.49  297 P      17 55.60   -0.4
                 eSn      18 53.60
DST      5.54   69 ePn    17 57.00    0.3
KCT      5.56   62 ePn    17 55.60   -1.5
SGO      5.84  300 P      18 02.00    1.2
YLV      6.40   62 ePn    18 07.00   -1.9
ELL      6.44   97 iPn    18 12.80    3.3X
DUI      6.93  306 P      18 16.00   -0.4
EYL      6.96   64 eP     18 16.10   -0.6
KBA     11.23  328 e(P)   19 16.00    0.2
                 e(S)     21 14.00
KHC     12.84  335 eP     19 53.10   15.7X
HFS     22.96  349 eP     21 35.70   -1.8
        0.5s      6.40nm            4.4mb
NB2     24.22  347 P      21 48.20   -1.5
        0.9s      6.70nm            4.3mb
BCAO    33.35  186 ePd    22 56.00  -16.6X
        0.5s      5.00nm
YKA     74.12  341 eP     28 07.90   -2.1
        0.5s      0.30nm            3.6mb
     S.D. = 1.3  on  37 of  42 obs.
-------------------------------------------
   MAR  26, 1991  13h 43m 48.87± 0.59s
   21.607 N ± 5.3km  121.871 E ± 9.0km
   DEPTH =  10.0km  (geophysicist)
   4.3mb (  8 obs.) 4.8Msz (  2 obs.)
 TAIWAN REGION                    (243)

TWF1     1.82  343 ePc    44 18.60   -1.8
TWD      2.47  354 eP     44 29.80    0.0
TWC      2.99  360 eP     44 37.60    0.5
CVP      3.88  181 eP     44 49.50   -0.4
                 eS       45 09.00
SZP      4.25  199 ePd    44 54.30   -0.8
                 eS       45 55.00
QZH      4.49  318 ePn    44 56.50   -1.9
                 Sn       45 46.80
BAG      5.31  194 eP     45 09.00   -1.3
QCP      6.97  186 eP     45 55.00   21.4X
HKC      7.18  277 iP     45 34.30   -2.2
                 eS       46 06.30
SSE      9.47  356 eP     46 31.00   22.7X
     E  11s      1.30um
                 eS       48 04.50
                 eLg      49 03.50
NJ2     10.75  346 eP     46 28.00    2.2
     Z  16s      1.50um
     E  10s      2.10um
PLP     10.80  164 eP     46 28.00    1.3
QIZ     11.57  259 eP     46 37.40    0.2
     N  13s      1.20um
     E  14s      0.90um
                 eS       48 42.20
GYA     14.71  292 P      47 21.40    2.4
                 S        50 03.00
XAN     16.85  320 eP     47 47.40    1.0
     N  12s      1.40um
     E  12s      1.00um
                 S        50 56.00
KMI     17.91  285 Pc     48 02.00    2.0
TIY     18.01  335 eP     48 04.80    3.9X
CD2     18.68  303 eP     48 09.00   -0.3
BJI     19.01  346 eP     48 18.00    4.9X
        1.0s     10.00nm            4.0mb
SNY     20.21    4 eP     48 27.60    0.9
HHC     21.08  338 eP     48 34.80   -1.0
LZH     21.34  316 eP     48 38.00   -0.5
        2.0s    110.00nm            4.9mb
     Z  18s      3.50um            4.8Msz
     E  14s      1.64um
                 pP       48 44.50   24kmX
BTO     21.44  335 eP     48 37.00   -2.4
CHG     21.69  267 eP     48 42.50    0.5
CHTO    21.69  267 eP     48 42.50    0.5
        1.3s     12.66nm            4.2mb
CN2     22.33    7 eP     48 49.60    1.4
KHT     23.11  257 eP     48 58.00    1.9
MDJ     23.82   14 Pd     49 04.20    1.5
        1.0s     60.00nm            5.1mb
GTA     25.89  318 eP     49 22.20   -0.5
     Z  18s      2.50um            4.8Msz
     N  15s      2.40um
IPM     26.37  233 ePd    49 26.70   -0.5
WMQ     35.92  316 eP     50 51.80    0.4
GBA     42.98  267 Pd     51 49.60   -0.6
        0.8s     4.20nm            4.2mb

KOD     44.03  262 eP     52 00.40    1.3
ASPA    46.50  165 eP     52 19.00    0.7
        0.5s      5.80nm            4.9mb
SOD     72.26  336 eP     55 24.00    8.1X
NUR     74.91  329 eP     55 31.00   -0.5
NB2     80.79  333 P      56 01.60   -2.3
        0.9s      1.90nm            4.1mb
YKA     85.09   23 eP     56 24.20   -1.7
        0.9s      0.90nm            4.0mb
     S.D. = 1.4  on  33 of  38 obs.
-------------------------------------------
   MAR  26, 1991  13h 45m 20.17± 0.45s
   37.679 N ± 5.8km  118.935 W ± 4.8km
   DEPTH =   5.0km  (geophysicist)
 CALIFORNIA-NEVADA BORDER REGION ( 40)
     ML 2.8 (GS).

BONR     0.57   61 eP     45 31.70    0.0
FRI      0.92  222 iPc    45 36.70   -1.5
                 iS       45 48.30
CMB      1.20  288 eP     45 42.50   -0.6
                 iS       45 57.50
TNP      1.42   73 eP     45 47.00    0.2
KVN      1.52   25 e(P)   45 48.00   -0.2
PKEM     1.87  211 eP     45 53.50    0.4
LLA      1.92  237 ePc    45 54.20    0.3
PRI      2.07  223 ePd    45 56.80    0.7
ARN      2.09  262 eP     45 56.50    0.1
SAO      2.20  246 eP     45 58.60    0.7
PRS      2.37  236 iPd    46 00.90    0.6
BCH      2.66  201 e(P)   46 04.00   -0.5
ORV      2.75  314 eP     46 03.00   -2.7X
PEC      4.04  159 eP     46 24.00   -0.1
     S.D. = 0.7  on  13 of  14 obs.
-------------------------------------------
*  MAR  26, 1991  14h 20m 29.71± 1.30s
   22.175 N ±10.1km  121.657 E ±12.3km
   DEPTH =  10.0km  (geophysicist)
   4.4mb (  4 obs.) 4.0Msz (  1 obs.)
 TAIWAN REGION                    (243)

TWG      0.84  320 iPc    20 46.40    0.5
TWF1     1.22  344 iPc    20 52.40    0.0
TWD      1.90  358 eP     21 02.00   -0.4
TWC      2.43    4 eP     21 10.30    0.3
ANP      3.00  358 eP     21 24.00    5.8X
SZP      4.74  194 eP     21 38.00   -4.9X
                 eS       22 38.00
HKC      6.94  272 eP     22 12.70   -1.2
                 eS       23 31.90
KMI     17.58  283 Pc     24 40.50    3.8X
LZH     20.79  316 eP     25 13.50   -0.3
        2.3s     45.00nm            4.4mb
     Z  20s      0.73um            4.0Msz
CHG     21.53  265 eP     25 22.00    0.8
CHTO    21.53  265 eP     25 21.80    0.6
        1.5s     25.34nm            4.4mb
ASPA    47.10  165 eP     29 10.40    6.6X
        1.1s      4.20nm            4.4mb
YKA     84.64   23 eP     33 04.30   -0.2
        0.8s      0.40nm            3.7mb
     S.D. = 0.7  on   9 of  13 obs.
-------------------------------------------
%  MAR  26, 1991  14h 23m 05.32± 1.67s
   23.147 N ±11.4km  121.393 E ±15.9km
   DEPTH =  10.0km  (geophysicist)
 TAIWAN                           (244)

TWF1     0.22  337 iPd    23 16.70    6.6X
                 eS       23 31.80
TWG      0.44  222 iPd    23 14.60    0.3
                 eS       23 28.10
TWK      0.84  278 iPd    23 21.10   -0.5
                 eS       23 39.60
TWD      0.95   11 eP     23 24.40    1.1
TWQ      1.23  336 ePd    23 28.60    0.3
TWC      1.51   16 ePd    23 31.20   -1.2
     S.D. = 1.2  on   5 of   6 obs.
-------------------------------------------
   MAR  26, 1991  14h 42m 28.67± 0.70s
   32.053 S ± 5.3km   68.566 W ± 8.8km
   DEPTH =  10.0km  (geophysicist)
 MENDOZA PROVINCE, ARGENTINA      (139)

ZON      0.51  349 eP     42 39.00   -0.1
                 eS       42 48.00
RTCB     0.60  340 ePc    42 40.90    0.1

RTLL     0.73    7 iPd    42 43.10    0.1
MDZ      0.86  196 eP     42 45.40    0.1
                 iS       42 50.20
PEL      2.09  238 iPd    43 04.20   -0.1
                 iS       43 30.00
TCA      3.46   79 ePd    43 23.70   -0.1
                 S        44 15.70
     S.D. = 0.1  on   6 of   6 obs.
-------------------------------------------
?  MAR  26, 1991  14h 45m 41.27± 6.17s
   35.318 N ±36.1km  140.230 E ±37.4km
   DEPTH =  10.0km  (geophysicist)
 NEAR EAST COAST OF HONSHU, JAPAN(228)

KAKJ     0.89  357 P      45 57.60   -0.6
                 eS       46 10.30
CHJJ     1.24  306 P      46 04.00   -0.3
                 eS       46 23.30
IIDJ     1.90  276 eP     46 13.90   -0.2
NIIJ     2.16  333 eP     46 18.90    1.1
     S.D. = 1.4  on   4 of   4 obs.
-------------------------------------------
%  MAR  26, 1991  15h 08m 25.86± 0.80s
   41.145 N ± 9.8km   28.495 E ± 6.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)

ISK      0.43  100 iPg    08 34.50   -0.2
DMK      0.87  321 iPg    08 42.70    0.0
                 iSg      08 55.70
YLV      0.88  131 ePg    08 43.00    0.1
HRT      0.95  110 ePg    08 44.00    0.1
KGT      1.14  233 ePn    08 47.10   -0.1
     S.D. = 0.2  on   5 of   5 obs.
-------------------------------------------
%  MAR  26, 1991  15h 46m 58.31± 0.81s
   41.169 N ±10.1km   28.545 E ± 6.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)

ISK      0.40  105 ePg    47 06.50    0.0
YLV      0.87  133 ePg    47 15.00   -0.1
DMK      0.88  318 iPg    47 15.20    0.0
                 iSg      47 27.70
HRT      0.92  112 ePg    47 16.00    0.1
KGT      1.18  233 ePn    47 20.40    0.0
     S.D. = 0.1  on   5 of   5 obs.
-------------------------------------------
   MAR  26, 1991  16h 01m 24.01± 1.06s
   19.837 N ± 7.9km   70.360 W ± 7.4km
   DEPTH =  14.4 ±  6.6 km
   4.8mb ( 15 obs.)
 DOMINICAN REPUBLIC REGION        ( 88)

MGP      3.59  120 P      02 21.70    1.3
LRS      3.66  114 P      02 21.50    0.1
SJG      4.34  113 iP     02 31.10    0.1
LPR      4.51  109 P      02 32.30   -1.1
CPD      4.57  112 P      02 33.90   -0.4
CBN     19.29  343 eP     05 52.00    0.9
BLA     19.41  335 ePc    05 52.50   -0.2
        0.8s     17.16nm            4.4mb
                 eS       09 16.00
RSCP    20.64  323 iP     06 06.00    0.3
        1.0s     43.38nm            4.8mb
FVM     25.12  320 iP     06 51.00    1.2
        1.1s     39.02nm            5.0mb
TUL     27.48  311 eP     07 11.20   -0.5
        0.8s     11.10nm            4.6mb
ALQ     35.19  303 eP     08 19.30   -0.6
        1.0s      6.00nm            4.4mb
GLD     35.87  311 eP     08 30.50    4.9X
        1.1s     21.22nm            4.9mb
ZOBO    35.95  176 P      08 28.00    1.2
     Z  24s      0.15um            3.7MszX
                 LR       20 00.00
GOL     35.96  311 iP     08 26.40    0.0
        1.0s     20.50nm            5.0mb
LPB     36.21  176 (P)    08 30.00    1.2
CNCB    36.49  176 P      08 31.00   -0.4
SIV     36.76  165 P      08 29.70   -3.3X
PV09    38.28  308 eP     08 46.60    0.6
BW06    40.05  314 eP     09 01.00    0.3
FFC     42.29  333 eP     09 17.00   -1.5
        0.6s      8.00nm            4.6mb
LRM     43.14  317 eP     09 24.30   -1.6
SES     44.27  323 eP     09 35.00    0.3
```

26d 16h

TNP 44.34 305 iP 09 36.40 0.7
1.0s 10.00nm 4.6mb
PPD 45.59 155 eP 09 43.40 -2.1
NEW 47.01 318 eP 09 56.50 0.0
1.0s 9.75nm 4.8mb
YKA 52.27 336 eP 10 35.00 -1.7
0.8s 6.50nm 4.6mb
KIC 64.95 92 (P) 12 04.40 -1.5
FBA 66.89 333 e(P) 12 18.00 0.5
NB2 68.79 31 P 12 29.50 0.0
1.1s 5.90nm 4.7mb
IMA 69.35 334 eP 12 32.50 -0.5
0.6s 5.00nm 4.8mb
APO 70.15 32 eP 12 37.70 0.0
1.2s 12.80nm 4.9mb
KHC 71.36 44 eP 12 46.50 1.1
ZST 73.82 44 eP 13 02.80 3.0X
SOD 74.53 23 eP 13 11.00 7.4X
NUR 75.38 31 iP 13 13.80 5.3X
KAF 75.74 29 eP 13 11.00 0.4
MLR 80.38 45 eP 13 38.50 1.9
BCAO 87.48 86 iPc 14 13.20 0.2
0.9s 9.00nm 5.0mb
WRA 156.78 266 PKP 21 21.00 0.3X
1.1s 1.30nm
S.D. = 1.0 on 33 of 39 obs.

& MAR 26, 1991 16h 21m 56.80s
36.878 N 121.633 W
DEPTH = 6.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 2.6 (BRK).

SAO 0.19 127 iP 22 00.30 -0.4
GCC 0.33 298 iPc 22 03.50 0.1
MHC 0.46 359 iPd 22 06.70 0.6
iS 22 13.30
ARN 0.48 10 iPc 22 06.60 0.2
PRS 0.58 159 iPc 22 07.80 -0.7
LLA 0.61 115 iP 22 08.60 -0.5
PCC 0.86 316 iPc 22 13.30 -0.4
PRI 1.07 133 ePc 22 16.80 -0.6
BKS 1.11 334 eP 22 18.30 0.4
BRK 1.11 333 ePc 22 18.30 0.3
eS 22 34.00
ZSP 1.18 335 iPc 22 19.90 0.8
CMB 1.52 40 eP 22 23.50 -1.1
eS 22 42.50
FRI 1.55 85 iPd 22 24.40 -0.5
iS 22 42.30
BCH 2.10 143 eP 22 30.60 -2.5
14 obs. associated

• MAR 26, 1991 18h 00m 21.64± 2.26s
36.034 N ±19.4km 22.056 E ± 8.0km
DEPTH = 10.0km (geophysicist)
SOUTHERN GREECE (368)
ML 3.4 (ATH).

VLI 0.99 46 ePg 00 40.40 0.1
ATH 2.35 34 ePg 01 04.80 4.0X
VLS 2.44 332 ePn 01 03.20 1.1
AGG 2.99 4 iPc 01 12.80 2.8X
NPS 3.00 104 ePn 01 18.00 7.9X
IGT 3.75 339 eP 01 21.10 0.3
PAIG 4.09 18 eP 01 24.70 -0.9
KZN 4.27 357 ePn 01 28.00 -0.2
FNA 4.77 354 iPd 01 35.10 -0.2
SOH 4.89 12 eP 01 38.00 1.1
GRG 4.92 3 eP 01 37.20 -0.2
KNT 5.16 7 eP 01 40.90 0.1
LCI 5.37 324 P 01 42.60 -1.1
eSn 02 37.20
TDS 5.79 310 P 01 48.80 -0.9
eSn 02 48.80
MEU 5.83 283 P 01 50.30 0.0
eSn 02 54.80
ORI 5.98 314 P 01 53.00 0.7
BRT 6.15 323 P 01 54.00 -0.8
eSn 02 57.80
MGR 6.56 311 P 02 00.80 0.2
eSn 03 07.70
SGO 6.97 312 P 02 07.00 0.8
S.D. = 0.7 on 16 of 19 obs.

MAR 26, 1991 18h 30m 19.40± 0.56s
21.870 N ± 5.3km 121.722 E ± 8.9km
DEPTH = 10.0km (geophysicist)
4.6mb (8 obs.) 4.8Msz (4 obs.)
TAIWAN REGION (243)

TWG 1.12 328 ePc 30 38.60 -1.8
eS 30 52.40
TWF1 1.53 345 eP 30 45.60 -1.1
TWD 2.20 357 eP 30 55.90 -0.6
TWC 2.73 2 eP 31 03.80 -0.2
ANP 3.31 357 eP 31 19.00 6.7X
PIP 3.68 197 iPd 31 16.50 -1.0
CVP 4.14 179 eP 31 05.00 -19.1X
eS 32 13.00
QZH 4.20 317 ePn 31 22.50 -2.4
Z 16s 10.70um
N 14s 4.10um
E 14s 4.20um
Sn 32 14.50
SZP 4.46 196 eP 31 32.00 3.4X
eS 32 31.00
BAG 5.54 191 eP 31 42.00 -2.1
HKC 7.02 275 P 31 50.00 -14.7X
HKC 7.02 275 iP 32 04.30 -0.4
iS 33 22.00
QCP 7.22 185 eP 32 46.00 38.4X
GZH 7.84 280 P 32 17.60 1.3
Z 13s 4.30um
SSE 9.20 357 eP 32 32.00 -3.1
Z 20s 5.10um 4.5MszX
N 11s 1.30um
E 10s 1.70um
NJ2 10.46 346 Pd 32 54.00 1.6
Z 18s 2.90um
N 13s 3.90um
PLP 11.09 163 eP 33 03.00 1.8
QIZ 11.49 258 eP 33 06.80 0.2
N 19s 3.80um
E 18s 2.70um
eS 35 17.10
TIA 14.84 345 P 33 54.50 3.5X
Z 14s 3.70um
N 13s 2.90um
E 13s 2.00um
XAN 16.56 320 Pc 34 16.80 3.5X
E 10s 1.30um
S 37 26.00
SS 37 46.00
DL2 16.98 360 Pc 34 21.00 2.5
Z 16s 1.50um
N 15s 2.20um
E 15s 2.10um
KMI 17.71 284 Pc 34 32.50 4.5X
Z 14s 2.10um
TIY 17.71 335 Pc 34 30.50 2.7
6.0s 1000.00nm 5.1mb X
N 13s 6.00um
E 13s 4.60um
CD2 18.42 303 eP 34 37.60 1.0
Z 16s 3.40um
S 37 58.50
BJI 18.72 347 eP 34 42.00 1.9
2.0s 80.00nm 4.6mb
Z 15s 2.91um 5.2Msz
N 14s 2.13um
eS 38 10.00
LOE 19.34 260 eP 34 49.00 1.0
SNY 19.96 4 eP 34 52.00 -2.5
Z 15s 2.90um
N 13s 1.50um
E 15s 1.50um
S 38 36.00
HHC 20.79 338 eP 35 03.60 0.3
Z 18s 4.80um 4.9Msz
N 15s 2.80um
E 15s 1.30um
LZH 21.05 316 eP 35 05.50 -0.6
4.0s 380.00nm 5.1mb X
Z 18s 2.81um 4.7Msz
E 12s 1.28um
pP 35 12.50 26kmX
PP 35 28.00
S 39 00.00
BTO 21.15 335 P 35 06.00 -1.0
pP 35 12.00 22kmX
eS 39 02.00
CHG 21.57 266 ePc 35 13.00 1.7
1.0s 24.25nm 4.6mb
CN2 22.09 7 eP 35 18.00 1.7
4.0s 300.00nm 5.1mb X
Z 16s 8.00um 5.2MszX
N 14s 1.20um
E 14s 1.30um
epP 35 27.00 32kmX
eS 39 15.00
NNT 22.91 250 eP 35 20.20 -4.5X
KHT 23.04 256 eP 35 27.00 1.1
MDJ 23.60 14 eP 35 33.60 2.5
Z 16s 1.80um 4.6MszX
N 14s 1.40um
E 12s 1.30um
GTA 25.60 318 eP 35 50.60 0.0
1.2s 10.00nm 4.4mb
Z 18s 2.40um 4.8Msz
E 13s 1.60um
S 40 20.00
sS 40 28.00
IPM 26.42 232 ePc 35 55.90 -2.3
KKN 33.51 288 P 37 02.00 0.4
0.8s 30.00nm 5.3mb
WMQ 35.63 316 P 37 20.00 0.5
Z 12s 1.20um 4.9MszX
KOD 43.93 262 eP 38 30.40 1.6
ASPA 46.79 165 eP 38 51.30 0.2
0.5s 5.90nm 4.9mb
TAB 65.65 303 eP 41 06.00 -0.4
KEV 71.30 339 eP 41 41.00 0.3
SOD 71.97 336 iP 41 44.70 0.0
KAF 73.40 331 eP 41 52.00 -1.2
0.5s 2.90nm 4.6mb
NUR 74.62 329 iP 42 00.10 -0.2
VRI 77.97 315 ePc 42 19.00 -0.5
UPP 78.14 330 iP 42 19.50 -0.5
HFS 79.82 331 eP 42 27.50 -1.7
0.9s 7.40nm 4.7mb
Z 18s 1.78um 5.5Msz
LR 15 08.00
NB2 80.50 332 P 42 31.70 -1.2
0.8s 4.40nm 4.5mb
VAY 82.40 311 eP 42 42.50 -0.7
KSP 82.55 322 eP 42 44.00 0.2
SKO 82.93 312 eP 42 46.00 0.0
BRG 83.87 323 e(P) 42 55.80 5.3X
PRU 83.93 322 P 42 51.50 0.6
e 42 56.00
CLL 84.19 323 eP 42 52.00 -0.2
KHC 84.88 321 eP 42 56.00 0.3
S.D. = 1.4 on 47 of 57 obs.

& MAR 26, 1991 18h 42m 10.79s
37.331 N 113.018 W
DEPTH = 4.4km
UTAH (478)
<SLC-P>. ML 3.2 (SLC). Felt (V) at Springdale, (IV) at Rockville and (III) at Toquerville and Virgin. Also felt at Hurricane, St. George and Zion National Park.

MSU 1.36 29 iPc 42 35.90 -0.7
DLM 1.40 282 eP 42 38.70 1.5
PRN 1.62 273 eP 42 41.90 1.6
GMR 2.19 271 eP 42 48.30 -0.4
DUG 2.86 3 eP 42 58.50 0.3
PV09 3.29 68 eP 43 03.50 -0.8
DAU 3.37 24 eP 43 04.70 -0.8
TNP 3.41 284 eP 43 06.50 0.4
KVN 4.36 295 eP 43 19.00 -0.4
ANMO 5.82 112 eP 43 37.50 -2.6
10 obs. associated

• MAR 26, 1991 19h 00m 10.78± 1.32s
36.860 N ±16.2km 29.411 E ± 7.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ELL 0.41 105 iPg 00 18.80 -0.5
iSg 00 29.80
YER 0.94 287 ePn 00 29.00 0.2
BCK 1.12 57 ePn 00 33.00 1.2
CIN 1.29 305 eP 00 35.00 0.3
KHL 1.46 3 ePn 00 36.00 -1.3
S.D. = 1.3 on 5 of 5 obs.

MAR 26, 1991 19h 00m 19.98± 0.32s
5.422 S ± 2.2km 146.746 E ± 2.9km
DEPTH = 236.7 ± 3.1 km
5.5mb (45 obs.)
EAST PAPUA NEW GUINEA REGION (207)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 32C
Centroid Locotion:
Origin Time 19:00:28.6 0.8
Lat 5.03S 0.08 Lon 146.71E 0.06
Dep 236.9 3.1 Half-duration 1.7
Moment Tensor; Scale 10**16 Nm
Mrr= 7.91 0.56 Mtt=-7.60 1.00
Mff=-0.31 1.03 Mrt= 7.57 0.84
Mrf=-8.14 0.76 Mtf= 4.22 0.85
Principal Axes:
T Val= 13.89 Plg=61 Azm= 63
N 0.60 13 308
P -14.49 26 212
Best Double Couple:Mo=1.4*10**17
NP1:Strike=274 Dip=23 Slip= 54
NP2: 133 72 104

YYYY 1.12 224 iPc 00 55.80 1.0
PMG 3.98 174 iP 01 22.00 -1.5
RAB 5.54 77 iPd- 01 42.90 0.2
0.6s 1440.00nm 6.1mb X
iS 02 48.00
VSG 13.41 107 iP 03 20.80 -1.8
SVO 13.48 107 eP 03 21.00 -2.4X
eS 05 56.00
HNR 13.68 108 iPc 03 24.30 -1.6
eS 05 58.00
CTA 14.59 182 iPd- 03 38.80 1.8
1.0s 520.00nm 5.9mb
iS 06 20.00
QIS 16.57 204 iPd 04 00.80 0.1
MTN 17.08 243 iPd 04 06.40 0.2
WRA 18.81 219 P 04 24.60 0.3
GUA 18.92 354 eP 04 25.20 -0.2
0.7s 400.00nm 6.1mb
KNA 20.42 238 iPc 04 40.60 0.3
RMQ 21.04 175 iPd 04 47.20 0.8
i 07 04.00
QLP 21.18 186 iPd 04 49.30 1.5
ASPA 21.96 213 iPd 04 57.90 2.5X
0.6s 2324.80nm 6.9mb X
Z 20s 1.70um 4.4Msz
eS 08 39.20
BRS 22.59 166 iPd 05 02.00 0.5
i 05 22.00
iS 08 55.00
e(ScP) 12 03.00
e(ScS) 15 53.00
BKM 24.29 122 iPd 05 17.50 -0.1
PVC 24.38 122 iPc 05 18.00 -0.4
DZM 25.24 133 iPc 05 24.70 -1.7
COO 25.49 170 iPd 05 28.40 -0.1
e 12 10.50
CMS 25.94 182 iPd 05 32.80 0.2
i 05 36.90
i 06 05.00
STK 26.76 190 iPd 05 59.50 19.6X
0.5s 55.70nm
e 06 12.60
i 06 34.80
e 34 33.70
CNB 29.84 176 iPc 06 07.90 0.5
ADE 30.32 193 iPd 06 12.00 0.4
0.5s 605.63nm 6.5mb X
MBL 30.42 237 iPd 06 12.70 0.1
0.7s 185.00nm 5.8mb
FORR 30.77 213 iPd 06 15.60 0.1
BFD 31.84 186 iPd 06 25.00 0.3
0.7s 264.00nm 6.0mb
TOO 32.02 182 iPd 06 27.00 0.7
0.9s 158.00nm 5.6mb
MEKA 34.18 229 iPd 06 44.80 -0.2
COOL 34.93 220 iPd 06 51.70 0.4
0.3s 53.00nm 5.6mb
TAU 37.33 179 iPd 07 12.00 0.8
KLB 37.62 223 iPd 07 14.20 0.4
BAL 37.75 225 iPd 07 15.60 0.6
0.4s 129.00nm 5.8mb
NWAO 38.79 221 iPd 07 24.20 0.7
0.6s 55.00nm 5.3mb

e 08 52.00
MUN 38.90 223 iPd 07 25.10 0.7
e 08 48.00
KAGJ 39.43 338 eP 07 29.40 0.7
RKG 39.65 220 iPd 07 34.40 3.9X
e 09 05.00
KUMJ 40.67 339 P 07 39.30 0.5
QZH 40.76 319 Pc 07 40.50 0.9
WKYJ 40.81 346 eP 07 40.00 -0.1
TKSJ 40.99 344 P 07 41.80 0.3
IIDJ 41.52 349 P 07 45.60 -0.3
KAKJ 41.86 352 P 07 48.40 -0.1
CHJJ 41.89 351 P 07 48.60 -0.1
TSRJ 41.98 347 P 07 49.50 0.0
SHNJ 42.02 340 P 07 49.50 -0.3
YONJ 42.29 344 P 07 52.20 0.2
CNZ 42.52 146 P 07 55.80 1.8
NGZ 42.54 146 P 07 56.00 1.8
MTMJ 42.62 349 P 07 54.60 -0.2
HBZ 43.04 142 P 07 58.30 0.2
0.5s 115.00nm 5.5mb
THZ 43.04 151 eP 07 58.10 -0.1
NIIJ 43.05 351 P 07 58.40 0.3
MSZ 43.26 158 eP 08 00.90 1.1
TCW 43.31 149 P 08 00.30 0.1
PUZ 43.32 143 P 08 00.40 0.0
KIW 43.38 149 P 08 01.40 0.6
MNG 43.50 148 Pc 08 01.70 -0.1
0.4s 44.00nm 5.2mb
e 08 48.80
LTZ 43.53 153 P 08 02.30 0.2
e 10 48.40
MRW 43.54 149 P 08 01.50 -0.5
NOZ 43.55 144 P 08 02.20 0.1
WEL 43.61 149 P 08 01.00 -1.6
eS 10 14.00
CAW 43.64 149 eP 08 03.30 0.5
WDW 43.71 149 P 08 03.00 -0.4
QIZ 43.72 305 eP 08 04.20 0.4
SSE 43.76 328 Pc 08 04.00 0.1
1.0s 270.00nm 5.6mb
Z 20s 0.50um 4.4Msz
N 10s 0.30um
eS 14 10.00
eSS 15 48.00
YAMJ 43.82 352 P 08 04.90 0.6
KHZ 43.85 151 eP 08 04.00 -0.5
MTW 43.90 148 P 08 04.50 -0.4
PGZ 43.92 147 P 08 04.80 -0.3
0.5s 115.00nm 5.5mb
MOW 43.96 149 eP 08 04.90 -0.5
BLW 44.03 149 P 08 05.60 -0.4
MHZ 44.11 157 eP 08 06.60 -0.1
TLC 44.14 157 P 08 07.00 0.0
OFUJ 44.53 354 P 08 10.20 0.4
NJ2 45.76 326 Pc 08 22.40 2.7
5.0s 600.00nm 5.2mb X
ScP 13 23.00
S 14 50.00
AOMJ 46.13 353 P 08 23.50 1.0
IPM 46.73 281 ePc 08 25.00 -2.7X
WHN 47.33 321 iPc 08 33.50 1.5
1.0s 100.00nm 5.1mb
HOOJ 47.68 357 P 08 35.60 1.1
MRRJ 47.90 354 P 08 36.40 0.3
KUSJ 48.33 358 P 08 39.60 0.2
ASAJ 49.45 356 P 08 48.80 0.8
TIA 49.85 328 Pc 08 50.60 -0.6
0.8s 100.00nm 5.3mb
LOE 49.91 298 iPc 08 51.00 -0.9
NNT 50.03 291 eP 08 44.00 -8.9X
e 30 11.00
GYA 50.11 311 P 08 54.40 0.9
SNY 51.56 338 iPc 09 03.60 -0.4
1.0s 100.00nm 5.2mb
KHT 51.78 293 iPc 09 05.70 -0.3
MDJ 52.14 345 iPc 09 07.80 -0.4
1.0s 40.00nm 4.9mb
KMI 52.45 307 Pc 09 12.00 0.9
CN2 52.63 341 Pc 09 10.60 -1.2
0.7s 30.00nm 4.9mb
CHG 52.89 298 eP 09 14.30 0.1
CHTO 52.89 298 eP 09 14.20 0.0
0.9s 6.18nm 4.1mb X
i 10 10.20
XAN 53.08 320 iPc 09 15.00 -0.4
1.2s 200.00nm 5.5mb

eS 16 22.00
BJI 53.28 331 eP 09 16.50 -0.1
1.5s 250.00nm 5.5mb
eS 16 28.00
TIY 53.49 326 iPc 09 18.00 -0.4
1.1s 50.00nm 4.9mb
CD2 54.69 314 Pc 09 26.70 -0.5
eS 16 50.00
HHC 56.21 328 iP 09 37.80 -0.1
0.8s 100.00nm 5.5mb
BTO 56.86 327 iPc 09 42.00 -0.4
LZH 57.61 319 iPc 09 48.00 0.1
1.5s 160.00nm 5.5mb
S 17 29.00
SHL 61.49 303 eP 10 11.90 -2.6X
eS 11 11.50
GTA 62.14 320 iPc 10 18.60 0.2
1.0s 40.00nm 5.1mb
Z 21s 1.20um 5.0Msz
E 14s 0.50um
pP 11 13.20 239kmX
SMY 62.40 18 ePc 10 20.60 0.9
AFR 63.11 107 iP 10 24.40 -0.6
1.0s 70.00nm 5.4mb
PAE 63.30 107 iP 10 25.60 -0.7
1.0s 60.00nm 5.3mb
TVO 63.62 107 iP 10 28.20 -0.2
1.0s 115.00nm 5.6mb
LSA 63.69 307 eP 10 29.40 0.2
TBI 63.83 113 iP 10 29.90 0.3
1.0s 85.00nm 5.5mb
PMO 64.83 104 iP 10 36.00 -0.1
ADK 65.04 24 eP 10 37.20 0.4
0.9s 167.20nm 5.8mb
VAH 65.09 104 iP 10 37.50 -0.3
1.0s 115.00nm 5.6mb
TPT 65.10 104 iP 10 37.70 -0.1
RUV 65.33 104 iP 10 39.00 -0.3
KOD 70.72 283 eP 11 13.50 0.4
HYB 71.02 290 eP 11 12.80 -1.7
e 12 09.50
e 12 39.00
GBA 71.33 286 Pc 11 14.50 -1.8
0.6s 5.10nm 4.4mb X
WMQ 72.19 319 P 11 20.50 -0.5
1.0s 30.00nm 5.0mb
Z 16s 0.60um 5.0MszX
S 20 24.50
SDN 74.50 28 ePc 11 34.00 0.0
0.9s 451.50nm 6.2mb
RKT 77.13 112 iP 11 49.10 -0.2
1.0s 140.00nm 5.6mb
ANM 78.25 19 ePc 11 55.70 1.0
SVW 79.82 25 ePc 12 04.50 1.3
TTA 80.62 23 eP 12 08.00 0.6
RSO 80.71 26 P 12 06.80 -1.3
SLKM 81.85 26 P 12 12.60 -1.2
MAW 82.68 203 iPd 12 13.60 -4.3X
PMR 82.80 26 P 12 17.60 -0.9
0.7s 52.33nm 5.4mb
pP 13 24.60 282kmX
IMA 83.11 21 eP 12 21.10 0.8
1.0s 54.30nm 5.2mb
TOA 84.29 26 iPc 12 27.20 1.0
SPA 84.61 180 iPc 12 27.40 -0.5
0.7s 42.97nm 5.4mb
i 13 23.90
FBA 84.75 23 P 12 27.50 -0.8
0.7s 93.02nm 5.7mb
pP 13 33.20 275kmX
BRW 84.93 16 i(P) 12 30.30 1.2
SIT 87.99 32 e(P) 12 45.20 1.1
FHC 92.95 49 eP 13 09.50 1.9
PGC 93.90 42 eP 13 12.00 0.4
WDC 94.03 50 iPd 13 13.50 1.0
BRK 94.07 52 eP 13 13.70 1.0
MHC 94.53 53 eP 13 15.90 0.8
PRS 94.69 54 eP 13 16.70 1.0
MIN 94.73 50 ePd 13 16.30 0.4
ORV 94.77 51 eP 13 16.50 0.6
LLA 95.05 54 eP 13 18.50 1.2
PRI 95.25 54 eP 13 19.90 1.5
CMB 95.56 52 P 13 19.70 0.0
1.0s 25.00nm 5.4mb
pP 14 24.00 265kmX
SYP 95.74 56 eP 13 22.00 1.4
FRI 96.06 53 iPd 13 22.30 0.5

26d 19h

MBC	96.16	14	ePd	13	20.70	-0.8	LDF	128.59	332	ePKP	18	59.40	-1.0	MTN	22.99	168	eP	29	42.00	-0.3
	0.9s	10.00nm			5.1mb		FLN	128.63	333	ePKP	18	59.70	-0.7		0.3s	102.00nm			5.7mb	
PNT	96.45	41	eP	13	23.00	-0.3		0.6s	8.10nm					NJ2	23.21	344	Pd	29	46.40	2.1
	0.8s	21.00nm			5.5mb		MAF	128.91	329	ePKP	19	00.40	-0.7	Z	20s	0.60um			4.0Msz	
PAS	97.21	56	eP	13	28.00	0.9	TCF	129.05	329	ePKP	19	00.60	-0.8				pP	29	55.00	31kmX
MWC	97.31	56	eP	13	28.00	0.2		0.6s	10.80nm					WHN	23.46	333	iPc	29	49.50	2.7
SBB	97.52	56	eP	13	29.00	0.5	GRR	129.07	333	ePKP	19	00.60	-0.7		1.0s	30.00nm			4.7mb	
CLC	97.73	55	eP	13	29.00	-0.4		0.6s	11.70nm								sS	34	18.00	
RVR	97.87	57	eP	13	31.00	1.0	LPF	129.42	332	ePKP	19	01.40	-0.5	KGM	24.08	253	ePd	29	54.50	1.6
PEC	98.05	57	P	13	30.80	-0.1		0.7s	24.25nm					GYA	24.89	314	P	30	01.80	1.0
TNP	98.06	52	P	13	31.00	-0.1	LSF	129.42	329	ePKP	19	01.10	-1.0	LOE	25.01	290	eP	30	03.00	1.1
	1.0s	15.00nm			5.3mb		MFF	130.02	331	ePKP	19	02.40	-0.7	KNA	25.48	174	eP	30	06.50	0.3
NEW	98.10	42	P	13	30.50	-0.3		0.6s	4.50nm					IPM	25.56	260	ePd	30	06.10	-1.0
	0.9s	35.09nm			5.7mb		CAF	130.03	328	ePKP	19	03.10	-0.2		0.8s	62.50nm			5.2mb	
PLM	98.29	57	eP	13	34.00	1.8	RJF	130.07	328	ePKP	19	02.70	-0.6	NST	26.14	286	eP	30	17.00	4.6X
YKA	98.78	28	eP	13	30.70	-2.9X	LPO	130.66	328	ePKP	19	04.40	0.0	KMI	27.07	307	eP	30	23.00	1.8
	1.1s	10.70nm			5.2mb			0.7s	12.15nm					KHT	27.48	283	eP	30	24.00	-0.7
TPC	98.97	56	eP	13	37.00	1.8	LFF	130.72	328	ePKP	19	04.70	0.2	BDT	27.50	289	eP	30	17.00	-7.9X
SES	101.94	40	ePdiff	13	48.00	-0.1	EPF	132.22	327	ePKP	19	08.20	0.7	TIA	27.60	344	eP	30	25.60	0.0
BW06	103.72	47	Pdiff	13	56.30	-0.1	GUD	136.29	328	ePKP	19	16.50	1.0	CHG	27.92	292	eP	30	28.20	-0.5
	0.8s	5.95nm			5.4mb		ARE	136.38	121	ePKP	19	16.00	-0.5	CHTO	27.92	292	eP	30	28.20	-0.5
PV09	104.40	52	Pdiff	13	40.00	-19.6X	CNCB	139.18	123	PKP	19	13.90	-8.1X		1.0s	8.00nm			4.3mb	
SOD	106.25	340	iPKP	18	35.30	18.2X	LPB	139.22	123	ePKP	19	12.00	-9.9X	PSI	28.06	257	ePd	30	32.80	2.9X
ALO	106.85	55	e(Pdif	14	10.00	-0.5	ZOBO	139.32	123	PKP	19	11.00	-11.3X	XAN	28.93	329	iPd	30	36.30	-1.3
ALO	106.85	55	ePKP	18	19.00	-0.5				i	19	13.90		CD2	29.67	318	eP	30	41.20	-3.2X
ANMO	106.85	55	Pdiff	14	11.50	1.1	CCM	140.39	126	PKP	19	18.40	-5.4X	TIY	30.48	338	Pd	30	51.50	0.0
	0.8s	3.73nm			5.6mb		IFR	141.73	321	iPKP	19	21.00	-4.7X	Z	20s	0.56um			4.2Msz	
GOL	107.19	50	Pdiff	14	12.50	0.6	AVE	143.30	322	iPKP	19	25.50	-2.6X	MBL	31.38	192	eP	30	58.00	-1.4
	0.9s	4.73nm			5.7mb		ITB7	143.45	147	PKPc	19	25.20	-3.4X	BJI	31.45	345	eP	31	10.00	10.2X
RSSD	107.53	45	Pdiff	14	12.00	-1.3	ITB	143.70	147	PKPc	19	25.80	-3.2X		1.0s	27.00nm				
KAF	108.66	335	ePKP	18	19.00	-2.8X	ITB1	143.71	146	PKPc	19	26.00	-3.0X	Z	18s	0.35um			4.1Msz	
	0.3s	0.70nm					SIV	145.20	128	iPKPc	19	30.50	-1.3				eS	36	04.00	
NUR	110.08	333	iPKP	18	23.70	-0.8	KUK	147.28	273	ePKP	19	37.00	1.8	SNY	32.01	356	eP	31	03.40	-1.3
MTD	112.25	250	iPKPc	18	23.60	-6.4X	PPD	147.48	148	ePKP	19	36.10	0.7		1.2s	40.00nm			5.1mb	
KRI	114.07	249	ePKP	18	22.80	-10.9X				e	19	37.80		QIS	32.87	157	eP	31	10.00	-2.5
BUL	114.14	245	iPKPd	18	32.10	-1.7				e	19	40.60		LZH	33.18	326	eP	31	13.50	-1.7
	0.6s	12.67nm					VAO	148.73	155	ePKP	19	38.40	1.0		1.5s	17.00nm			4.7mb	
HFS	114.92	336	ePKP	18	32.50	-1.3				e	19	41.60		Z	20s	0.73um			4.4Msz	
	0.5s	1.30nm								e	19	47.90		E	14s	0.34um				
NB2	115.33	338	PKP	18	33.10	-1.6				e	19	56.50		HHC	33.58	340	P	31	18.60	0.1
	0.7s	2.70nm					MGH	149.49	66	ePKP	19	43.14	4.5X	CN2	33.91	359	eP	31	21.50	0.3
BRG	120.08	328	iPKP	18	44.20	0.3	PAG	150.19	67	ePKP	19	44.91	5.2X	BTO	33.91	338	eP	31	21.00	-0.4
		e		20	06.20		SEG	150.24	66	ePKP	19	44.26	4.6X	ASPA	34.06	167	eP	31	22.00	-0.8
PRU	120.23	326	ePKP	18	43.10	-1.1	DOG	150.25	67	ePKP	19	44.76	5.0X		0.5s	8.50nm			4.9mb	
CLL	120.34	328	iPKPd	18	43.90	-0.5	BBL	150.53	68	ePKP	19	45.32	5.1X	Z	18s	0.24um			4.0Msz	
	0.8s	11.00nm					MGG	150.56	67	ePKP	19	45.22	5.0X				eS	36	40.20	
		e		28	52.00		DEG	150.67	66	ePKP	19	44.91	4.5X	SHL	36.19	300	iP	31	39.90	-1.2
KHC	121.21	326	ePKP	18	45.00	-1.2	FDF	151.05	69	ePKP	19	42.90	1.9				eS	35	51.00	
GRF	122.19	327	ePKP	18	47.10	-0.9	BIM	151.18	70	ePKP	19	46.50	5.3X	GTA	37.79	326	P	31	53.60	-0.7
KBA	122.42	324	iPKPc	18	48.10	-0.6	MVM	151.34	69	ePKP	19	46.80	5.4X		0.8s	10.00nm			4.8mb	
		e		19	57.00		KIC	151.62	273	PKP	19	47.82	5.9X	BAL	41.18	193	eP	32	22.00	-0.3
		e		20	30.00			0.6s	14.50nm					KLB	41.93	191	eP	32	28.50	0.1
SCH	123.84	23	ePKP	18	50.00	-1.1	TPP	151.66	78	ePKP	19	49.18	7.3X	KKN	42.49	301	P	32	32.60	-0.8
ABH	123.99	329	ePKP	18	51.30	-0.3	TRN	151.66	78	ePKP	19	47.77	5.9X	MUN	42.62	193	eP	32	34.00	-0.1
MEM	124.30	331	PKP	18	51.20	-0.8	TIC	151.90	274	PKP	19	48.18	5.9X		0.7s	54.00nm			5.4mb	
SFI	124.94	321	PKP	18	51.60	-1.9	LIC	151.91	273	PKP	19	48.30	6.0X	NWAO	43.33	191	iPd	32	40.10	0.3
CDF	125.04	328	ePKP	18	52.60	-1.1	TBH	152.01	78	ePKP	19	50.18	7.7X		0.6s	31.00nm			5.2mb	
SNF	125.19	332	PKP	18	53.40	-0.3	BAO	154.49	145	ePKP	19	45.50	-0.5	STK	43.94	161	iPc	33	04.20	19.4X
DOU	125.32	331	PKP	18	54.30	0.3		S.D. = 0.9		on 209 of 248 obs.					0.5s	6.00nm				
VAI	125.73	325	PKP	18	50.70	-4.3X	----------							RKG	44.48	191	iPd	32	43.90	-5.3X
HAU	125.78	328	ePKP	18	53.80	-1.3	MAR 26, 1991 19h 24m 40.80± 1.41s							ADE	46.03	166	iPd	33	03.70	2.2
	0.6s	10.80nm					9.774 N ± 5.1km 126.266 E ± 8.9km							HYB	46.89	285	eP	33	08.50	-0.1
LPL	127.09	325	ePKP	18	57.50	-0.4	DEPTH = 48.7 ± 12.1 km								1.0s	4.50nm			4.4mb	
	0.8s	4.05nm					5.0mb (18 obs.) 4.1Msz (6 obs.)							WMO	47.61	322	P	33	13.40	-0.6
LPG	127.09	325	ePKP	18	57.10	-0.9	MINDANAO, PHILIPPINE ISLANDS (259)							GBA	47.91	279	P	33	15.00	-1.6
	0.3s	5.35nm													0.8s	22.30nm			5.2mb	
PGF	127.43	321	ePKP	18	57.80	-0.7	PLP	1.87	318	ePc	25	09.00	-2.0	KOD	48.02	275	eP	33	18.50	0.6
	0.8s	10.75nm								iS	25	25.50		DZM	50.54	129	iPc	33	37.00	0.2
LOR	127.55	329	ePKP	18	57.40	-1.1	CGP	2.03	230	iPc	25	14.50	1.3	KEV	84.09	340	eP	36	51.00	-16.4X
	0.5s	3.65nm								eS	25	33.00		SOD	84.74	337	iP	37	11.00	0.3
LBF	127.67	328	ePKP	18	57.70	-1.1	MAP	2.32	284	ePc	25	20.00	2.8X	HRI	85.15	303	eP	37	14.00	0.4
SSF	127.87	329	ePKP	18	58.40	-0.7				iS	25	36.00		ADI	85.61	303	eP	37	16.00	0.2
	0.7s	4.95nm					PGP	6.39	306	ePc	26	18.00	3.2X	JVI	85.68	302	eP	37	17.00	0.8
SMF	127.96	328	ePKP	18	58.50	-0.8		1.0s	3.00nm				3.8mb X	KAF	86.06	332	iP	37	17.30	0.0
	0.7s	7.70nm					QCP	7.01	314	eP	27	10.00	46.6X		0.5s	14.00nm			5.4mb	
AVF	128.12	329	ePKP	18	58.30	-1.2	PPR	7.43	271	iPc	26	31.00	1.7	MBC	86.19	13	eP	37	19.00	1.2
	0.6s	2.70nm								iS	27	08.00		PRNI	86.22	300	iPc	37	19.30	0.4
FRF	128.29	324	ePKP	18	59.40	-0.6	CVP	8.99	332	eP	26	53.00	2.1X	NUR	87.23	331	iP	37	22.80	-0.2
	0.9s	13.10nm					QIZ	18.36	302	eP	28	52.00	-1.7		0.7s	21.40nm			5.5mb	
BCAO	128.40	271	ePKPd	19	00.40	-0.7	N	20s	2.00um					HFS	92.48	332	eP	37	46.50	-1.2
	0.9s	27.00nm					E	18s	1.30um						0.6s	8.80nm			5.4mb	
		id		20	05.00		SSE	21.73	348	Pc	29	31.00	1.2	Z	16s	0.14um			4.5MszX	
		id		21	58.00			1.0s	32.00nm			4.7mb				LR		18	29.00	
LMR	128.51	323	ePKP	19	00.00	-0.4	Z	20s	0.60um			4.0Msz		NB2	93.20	334	P	37	50.00	-1.1
LRG	128.52	324	ePKP	19	00.20	-0.2	N	18s	0.70um						0.6s	3.60nm			5.0mb	
BGF	128.54	329	ePKP	18	59.80	-0.6				sP	29	50.00		YKA	94.21	24	eP	37	56.30	0.7
	0.8s	14.80nm								S	33	30.00			0.6s	1.90nm			4.7mb	

```
KHC     97.04 322 eP     38 09.60    0.7
CNCB   164.48 118 PKP    44 47.00    5.4X
ZOBO   164.57 116 PKP    44 42.50    0.8
     Z  24s      0.13um
                 eLR     55 56.00
SIV    170.55 132 (PKP)  44 40.00   -5.2X
     S.D. = 1.2  on  54 of  68 obs.
-----------------------------------------
% MAR 26, 1991  19h 33m 57.76± 0.75s
   37.540 N ± 6.3km   15.025 E ± 6.8km
   DEPTH =  10.0km  (geophysicist)
 SICILY                              (398)

MEU     0.44 190 Pd     34 06.70   -0.1
                eSg     34 13.50
MNO     0.47 326 P      34 07.90    0.5
                eSg     34 13.00
ATN     0.71  29 P      34 12.40    0.6
                eSg     34 21.90
GIB     0.91 300 P      34 15.50    0.3
                eSg     34 27.00
SOI     0.97  57 P      34 17.10    0.9
                eSg     34 32.40
FAI     1.11 257 P      34 18.60    0.1
TDS     2.35  26 P      34 36.50   -0.5
MGR     2.63   9 P      34 39.20   -1.7
     S.D. = 1.0  on   8 of   8 obs.
-----------------------------------------
   MAR 26, 1991  19h 39m 50.57± 0.79s
   37.627 N ± 8.3km  118.943 W ± 8.0km
   DEPTH =   5.0km  (geophysicist)
 CALIFORNIA-NEVADA BORDER REGION ( 40)
     ML 2.8 (GS).

CMB     1.21 290 eP     40 12.50   -1.1
TNP     1.44  71 eP     40 17.40   -0.1
KVN     1.57  25 eP     40 19.40    0.1
PKEM    1.82 211 eP     40 24.00    1.2
ARN     2.08 263 eP     40 27.10    0.5
BCH     2.61 201 eP     40 33.00   -1.2
ORV     2.78 315 eP     40 37.20    0.6
     S.D. = 1.1  on   7 of   7 obs.
-----------------------------------------
* MAR 26, 1991  19h 43m 12.11± 1.14s
   37.777 N ±20.4km  118.956 W ± 7.0km
   DEPTH =   5.0km  (geophysicist)
 CALIFORNIA-NEVADA BORDER REGION ( 40)
     ML 2.2 (GS).

BONR    0.55  71 eP     43 23.00   -0.1
CMB     1.16 283 eP     43 33.50   -0.8
TNP     1.41  77 eP     43 38.30   -0.3
KVN     1.44  28 eP     43 39.60    0.5
ARN     2.09 259 eP     43 49.00    0.7
     S.D. = 0.9  on   5 of   5 obs.
-----------------------------------------
& MAR 26, 1991  19h 51m 14.00s
   36.883 N          121.640 W
   DEPTH =   6.0km
 CENTRAL CALIFORNIA                  ( 39)
     <BRK>. ML 3.1 (BRK).

SAO     0.20 127 iPd    51 17.51   -0.6
GCC     0.32 297 iPc    51 20.66    0.2
MHC     0.46 360 iPd    51 23.80    0.6
ARN     0.47  10 iPc    51 23.80    0.3
PRS     0.59 158 iPd    51 25.05   -0.8
LLA     0.62 115 iPd    51 25.97   -0.4
PCC     0.85 316 ePc    51 30.06   -0.8
PRI     1.08 133 ePc    51 34.20   -0.6
BKS     1.10 335 ePc    51 34.10   -0.9
                iS      51 51.20
BRK     1.11 334 eP     51 35.30    0.2
ZSP     1.17 335 ePd    51 35.03   -1.1
PKEM    1.48 123 eP     51 41.30    0.1
CMB     1.52  41 ePc    51 40.70   -1.1
                iS      51 59.80
FRI     1.55  85 eP     51 40.19   -2.0
                eS      52 00.13
BCH     2.11 143 eP     51 48.20   -2.2
ORV     2.67   2 eP     51 56.50   -1.8
     16 obs. associated
-----------------------------------------
   MAR 26, 1991  20h 18m 03.66± 0.63s
   37.664 N ± 7.6km  118.935 W ± 6.0km
   DEPTH =   5.0km  (geophysicist)
 CALIFORNIA-NEVADA BORDER REGION ( 40)
     ML 2.7 (GS).

BONR    0.58  60 iPc    18 14.90   -0.4
CMB     1.21 288 eP     18 25.30   -1.3
TNP     1.42  72 eP     18 30.30   -0.1
KVN     1.53  25 iPc    18 32.20    0.3
PKEM    1.86 211 e(P)   18 37.00    0.6
ARN     2.09 262 eP     18 39.90    0.1
BCH     2.64 201 eP     18 47.50   -0.3
ORV     2.76 314 eP     18 50.50    1.1
     S.D. = 0.9  on   8 of   8 obs.
-----------------------------------------
* MAR 26, 1991  20h 32m 27.47± 0.90s
   17.713 N ±12.9km   95.255 W ± 8.8km
   DEPTH =  33.0km  (normal)
   3.7mb (  1 obs.)
 OAXACA, MEXICO                      ( 60)

OXX     1.54 246 iP     32 52.50   -0.6
                iS      33 10.50
LVVM    2.31 331 eP     33 03.00   -1.0
                iS      33 30.00
IISM    2.38 303 eP     33 05.00    0.0
                iS      33 33.50
SCX     2.69 111 iP     33 09.50    0.2
                iS      33 39.00
IIT     3.18 295 eP     33 17.50    0.9
PPM     3.47 293 eP     33 22.00    1.0
TPX     4.01 134 (P)    33 50.00   21.9X
III     4.06 280 eP     33 28.50   -0.6
YKA    46.73 348 eP     40 51.00   -4.0X
       0.5s      0.40nm          3.7mb
     S.D. = 0.9  on   7 of   9 obs.
-----------------------------------------
   MAR 26, 1991  21h 53m 29.60± 0.41s
   10.235 N ± 5.0km   62.424 W ± 4.2km
   DEPTH =  10.0km  (geophysicist)
   4.7mb (  9 obs.)  4.0Msz (  1 obs.)
 NEAR COAST OF VENEZUELA             ( 97)
     MD 4.6 (TRN). Felt (III) at Port
     of Spain, Trinidad.

TCE     0.80  55 eP     53 44.27   -0.9
                eS      53 55.27
TPP     0.96  85 eP     53 48.55    0.7
TRN     1.09  68 eP     53 48.98   -1.0
                eS      54 06.20
TBH     1.36  79 eP     53 55.09    0.5
                eS      54 16.94
PALR    1.65 298 iP     54 02.60    3.8X
                iS      54 26.70
PIG     1.81  59 eP     54 01.91    0.9
                eS      54 28.20
TPR     1.87  60 eP     54 03.66    1.7
BOT     1.92  61 eP     54 03.68    1.1
                eS      54 30.35
GRW     2.05  21 eP     54 06.16    1.5
FCV     3.13  22 eP     54 19.90    0.1
SVV     3.28  21 eP     54 24.31    2.1X
SLB     3.82  21 eP     54 29.84    0.1
OLLA    4.32 268 iP     54 40.50    3.6X
                eS      55 31.10
LLAV    4.32 274 iP     54 41.00    4.0X
                eS      55 33.60
MVM     4.55  19 iPd    54 40.21    0.1
FDF     4.64  15 eP     54 41.54    0.1
                S       55 30.10
CRM     4.73  18 iPd    54 43.48    0.8
DPMT    5.10  11 eP     54 48.41    0.6
                eS      55 43.25
DBCT    5.11  12 eP     54 48.81    0.7
                eS      55 44.34
MDN     5.15  11 eP     54 49.09    0.5
                eS      55 44.54
MGG     5.75  11 eP     54 57.90    0.8
PAG     5.81   7 eP     54 58.16    0.2
                S       55 12.00
DOG     5.82   8 eP     54 57.90   -0.1
MORO    5.83 277 eP     55 00.40    2.1
CEOS    5.95 259 eP     55 02.10    2.1
SFG     6.10  11 eP     55 03.10    1.1
DEG     6.19  12 eP     55 03.11   -0.2
SEG     6.20   8 eP     55 04.20    0.8
MGH     6.45   2 eP     55 07.38    0.4
TOV     7.27 267 ePn    55 11.50   -7.1X
                eSn     56 44.80
SDV     8.21 261 eP     55 33.50    1.7
SIV    26.09 177 Pc     59 06.00    0.6
ZOBO   26.93 192 P      59 15.00    1.2
       1.0s      8.75nm          4.4mb
     Z  18s      0.34um          4.0Msz
                 S       04 16.00
                 LR      08 06.00
LPB    27.18 192 P      59 21.00    5.1X
CNCB   27.43 192 P      59 22.20    3.9X
CCH    27.68 188 eP     59 29.00    8.7X
NA2    30.99 336 eP     59 48.70   -0.7
BLA    31.39 332 ePc    59 52.60   -0.3
NAV    31.65 331 ePd    59 54.70   -0.5
TKL    31.90 326 ePd    59 56.30   -1.1
GBTN   32.14 325 ePc    59 59.00   -0.6
RSCP   32.87 324 eP     00 05.40   -0.5
ELC    36.18 322 ePc    00 33.30   -1.0
FVM    37.35 322 ePc    00 43.00   -1.2
TUL    39.61 316 iPc    01 01.40   -1.7
       0.8s     17.70nm          4.8mb
ANMO   47.00 309 P      02 02.80   -0.4
       0.8s      6.53nm          4.8mb
BW06   52.23 317 P      02 40.00   -3.4X
       0.7s      4.87nm          4.5mb
SES    56.49 325 eP     03 12.00   -2.2
KIC    57.15  89 (P)    03 18.00   -1.5
EDM    59.06 327 iPc    03 29.50   -2.7X
YKA    64.11 336 eP     04 01.30   -4.7X
       0.5s      2.60nm          4.7mb
NB2    73.19  29 P      05 01.80   -0.6
       0.7s      4.80nm          4.7mb
HFS    74.28  30 eP     05 07.00   -1.6
       0.6s      9.00nm          5.0mb
NUR    79.73  30 iP     05 38.20   -0.8
SOD    80.27  23 eP     05 41.00   -0.8
KEV    80.28  21 eP     05 47.00    5.2X
BCAO   80.34  87 ePc    05 48.10    4.8X
       0.5s      8.00nm          5.0mb
                 id      05 53.10
KAF    80.44  28 eP     05 41.00   -1.8
       0.5s      4.90nm          4.8mb
MLR    81.65  45 eP     05 55.00    5.3X
GBA   133.66  60 PKPc   12 46.30   -2.9X
       0.6s      1.30nm
CHG   145.78  33 ePKP   13 11.00   -0.1
WRA   161.17 237 PKP    13 31.00   -1.1
       0.7s      1.00nm
     S.D. = 1.1  on  47 of  62 obs.
-----------------------------------------
& MAR 26, 1991  23h 17m 58.28s
   60.530 N          139.297 W
   DEPTH =   9.6km
 SOUTHEASTERN ALASKA                 ( 19)
     <AEIC>.

YKU     1.00 193 eP     18 15.65   -1.6
CTGM    1.09 294 iP     18 17.62   -1.3
                eS      18 32.10
TGL     1.76 279 eP     18 27.17   -1.9
                eS      18 51.43
GLB     2.38 295 eP     18 37.75   -0.3
                eS      19 04.39
KNIM    4.19 271 eP     19 01.46   -2.1
INK     8.19  15 P      20 01.00    1.0
     6 obs. associated
-----------------------------------------
* MAR 26, 1991  23h 29m 17.51± 1.41s
   40.338 N ± 9.5km  139.055 E ±15.8km
   DEPTH =  35.8 ± 15.4 km
   4.0mb (  1 obs.)
 NEAR WEST COAST OF HONSHU, JAPAN(226)

AOMJ    1.03  77 iPd    29 35.70    0.1
                eS      29 50.60
YAMJ    2.29 160 P      29 53.60   -0.1
                eS      30 23.50
OFUJ    2.38 121 iP+    29 55.10    0.2
                S       30 32.10
MRRJ    2.58  35 eP     29 57.30   -0.5
NIIJ    3.09 181 P      30 04.70   -0.4
HOOJ    3.78  56 eP     30 19.10    4.2X
MTMJ    3.87 195 P      30 17.00    0.7
INK    52.32  28 eP     38 28.00    0.7
WRA    60.13 185 P      39 23.00   -0.7
       0.6s      0.70nm          4.0mb
     S.D. = 0.7  on   8 of   9 obs.
-----------------------------------------
* MAR 27, 1991  00h 18m 25.30± 1.40s
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27d 00h

27.621 N ±10.7km 33.724 E ±11.5km
DEPTH = 10.0km (geophysicist)
ARAB REPUBLIC OF EGYPT (553)
MD 4.0 (HLW).

BADA	1.44	51	iPc	18	51.47	0.0
HOL	2.02	35	eP	18	59.50	-0.2
MBH	2.37	25	eP	19	05.00	0.1
KOT	2.84	325	ePn	19	11.50	0.0
			eSn	19	43.50	
WAJH	2.91	119	ePc	19	12.53	0.0
SHWJ	3.16	29	P	19	25.60	9.4X
MKT	3.54	20	eP	19	22.00	0.5
MDSJ	4.56	28	P	19	48.80	12.8X
ZNT	4.74	14	eP	19	38.00	-0.5
			eS	20	42.00	

S.D. = 0.4 on 7 of 9 obs.

MAR 27, 1991 00h 45m 21.04± 0.58s
39.176 N ± 4.9km 27.953 E ± 7.2km
DEPTH = 10.3 ± 4.6 km
TURKEY (366)

DST	0.68	50	iPg	45	34.70	0.2
			eSg	45	48.70	
IZM	0.95	215	ePg	45	37.80	-1.3
			eSg	45	51.60	
KCT	1.12	16	iPn	45	42.30	0.3
EDC	1.17	357	ePn	45	43.00	0.1
BNT	1.18	359	iPn	45	43.70	0.7
EZN	1.42	298	ePn	45	47.60	0.8
KHL	1.49	124	ePn	45	48.50	0.5
CIN	1.58	176	eP	45	50.00	1.0
YLV	1.77	38	iPn	45	51.20	-0.7
HRT	2.11	38	ePn	45	56.00	-0.8
EYL	2.19	50	ePn	46	02.70	4.6X
DMK	2.65	357	ePn	46	03.90	-0.6

S.D. = 0.9 on 11 of 12 obs.

MAR 27, 1991 02h 11m 29.79± 0.61s
37.640 N ± 7.2km 118.909 W ± 5.9km
DEPTH = 5.0km (geophysicist)
CALIFORNIA-NEVADA BORDER REGION (40)
ML 2.7 (GS).

BONR	0.57	57	eP	11	40.80	-0.5
CMB	1.23	289	eP	11	52.20	-1.0
TNP	1.41	71	eP	11	56.40	0.1
KVN	1.55	24	eP	11	58.50	0.3
PKEM	1.85	212	eP	12	02.90	0.5
ARN	2.11	263	eP	12	06.00	-0.2
BCH	2.63	202	eP	12	13.50	-0.2
ORV	2.79	314	eP	12	17.00	1.1

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

MAR 27, 1991 02h 14m 56.22± 0.74s
37.676 N ±10.2km 118.955 W ± 6.7km
DEPTH = 5.0km (geophysicist)
CALIFORNIA-NEVADA BORDER REGION (40)
ML 2.3 (GS).

BONR	0.59	61	eP	15	07.80	-0.2
CMB	1.19	288	eP	15	18.00	-0.9
TNP	1.43	73	eP	15	22.90	-0.2
KVN	1.53	26	eP	15	25.00	0.6
ARN	2.08	262	eP	15	33.00	0.8
BCH	2.65	200	eP	15	40.30	-0.1

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

% MAR 27, 1991 02h 24m 32.11± 2.52s
61.641 N ±10.4km 4.386 E ±19.5km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 2.2 (BER).

FRO	0.26	64	ePg	24	37.96	0.3
			eSg	24	41.38	
FOO	0.32	98	ePg	24	38.92	0.2
			eSg	24	42.63	
SUE	0.61	163	eP	24	44.20	-0.2
			eSg	24	52.89	
HYA	0.99	118	eP	24	50.10	-0.7
			eSg	25	02.87	
ASK	1.23	161	eP	24	54.46	-0.4
			eSg	25	11.24	
MOL	1.76	57	eP	25	02.30	-0.4
			eSg	25	24.58	
ODD1	2.05	147	eP	25	08.42	1.3
			eSg	25	34.79	
NRA0	3.58	102	Pn	25	25.50	-3.3X
			Sn	26	06.30	

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

MAR 27, 1991 02h 25m 53.48± 0.71s
37.654 N ± 9.6km 118.927 W ± 6.5km
DEPTH = 5.0km (geophysicist)
CALIFORNIA-NEVADA BORDER REGION (40)
ML 2.0 (GS).

BONR	0.58	59	iPc	26	05.00	-0.1
CMB	1.22	289	eP	26	16.00	-0.6
TNP	1.42	72	eP	26	20.00	-0.2
KVN	1.54	25	eP	26	22.20	0.4
ARN	2.09	262	eP	26	30.30	0.6
BCH	2.63	201	eP	26	37.40	-0.1

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

? MAR 27, 1991 02h 47m 10.76±11.07s
19.910 N ±94.0km 62.260 W ±53.7km
DEPTH = 33.0km (normal)
LEEWARD ISLANDS (92)
ML 3.9 (FDF).

MGH	3.17	179	eP	47	59.76	0.2
			S	48	32.00	
LPR	3.77	246	P	48	07.60	-0.4
PAG	3.90	172	eP	48	09.93	0.0
			S	48	48.50	
DOG	3.90	171	eP	48	10.05	0.1
CPD	3.93	242	P	48	10.40	0.1
SJG	4.09	245	i(P)	48	12.50	-0.1
BBL	4.43	170	eP	48	17.00	-0.4
LRS	4.62	250	P	48	20.70	0.5
MGP	4.95	248	P	48	24.60	-0.1

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

% MAR 27, 1991 04h 20m 13.77± 1.82s
38.926 N ±10.8km 26.630 E ±17.3km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

IZM	0.72	137	iPg	20	28.10	0.1
			eSg	20	42.00	
EZN	0.93	345	iPn	20	31.40	-0.1
DST	1.69	66	ePn	20	43.00	-0.6
BNT	1.74	34	ePn	20	44.00	-0.2
KCT	1.88	45	ePn	20	47.00	0.8

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

& MAR 27, 1991 04h 27m 05.44s
60.691 N 142.316 W
DEPTH = 0.0km
SOUTHERN ALASKA (2)
<AEIC>.

TGL	0.26	285	iP	27	11.56	0.9
			eS	27	15.52	
BALM	0.35	358	iP	27	14.29	1.9
			iS	27	20.19	
CTGM	0.55	60	iP	27	17.03	0.5
			eS	27	25.12	
WRG	0.67	168	iP	27	17.79	-1.0
			eS	27	27.07	
HMT	1.03	251	iP	27	24.89	-0.9
			eS	27	39.98	
GLB	1.05	317	iP	27	24.78	-1.4
			eS	27	39.36	
RAGM	1.21	256	eP	27	27.98	-0.9
			eS	27	46.44	
SGAM	1.44	264	eP	27	31.96	-0.8
			eS	27	52.50	
BCPM	1.53	118	eP	27	32.31	-1.7
CVA	1.70	267	eP	27	35.55	-0.9
PNL	1.78	124	eP	27	35.94	-1.8
KLU	1.93	296	eP	27	40.94	1.1
VLZ	2.01	284	eP	27	40.57	-0.4
HIN	2.09	264	eP	27	40.41	-1.8
VZW	2.11	282	eP	27	41.70	-0.7
HON	2.13	124	eP	27	41.08	-1.6

16 obs. associated

& MAR 27, 1991 04h 39m 33.29s
60.953 N 150.820 W
DEPTH = 13.0km

KENAI PENINSULA, ALASKA (14)
<AEIC>.

NKA	0.29	224	iPc	39	41.45	1.8
SUA	0.51	4	iPc	39	43.64	-0.1
			eS	39	51.24	
SLKM	0.53	146	eP	39	43.31	-0.8
SPU	0.64	291	iPc	39	45.25	-0.7
			iS	39	54.04	
PMS	0.68	64	iPc	39	45.79	-0.7
			eS	39	54.84	
CRP	0.72	296	ePc	39	46.81	-0.5
			eS	39	57.27	
CKL	0.78	289	iPc	39	47.51	-0.7
NCG	0.79	306	ePc	39	47.74	-0.7
			eS	39	58.34	
BGL	0.82	293	eP	39	48.43	-0.6
			eS	39	59.68	
PWA	0.83	33	ePd	39	48.93	-0.2
			eS	39	59.85	
RDT	0.87	245	ePd	39	48.91	-0.8
			iS	40	00.23	
NNL	0.94	195	eP	39	51.09	0.1
REF	1.04	244	ePd	39	51.74	-1.0
			eS	40	05.19	
PLRM	1.04	51	eP	39	51.14	-1.4
			eS	40	04.32	
RDN	1.05	246	ePd	39	51.61	-1.3
			eS	40	05.30	
RSO	1.07	243	ePd	39	52.34	-1.0
			eS	40	06.18	
RS2	1.07	244	ePd	39	52.30	-1.0
			eS	40	05.89	
SKT	1.09	342	iPd	39	52.86	-0.6
			eS	40	07.46	
SEW	1.09	141	eP	39	52.32	-1.1
			eS	40	06.07	
RED	1.10	242	ePd	39	52.63	-1.1
			eS	40	07.06	
NCT	1.11	250	iPd	39	52.70	-1.2
			eS	40	06.92	
GHO	1.23	47	ePc	39	54.72	-1.2
			eS	40	10.27	
KNK	1.23	67	ePc	39	55.02	-1.0
			eS	40	10.05	
HOM	1.36	198	eP	39	57.36	-0.5
			iS	40	15.24	
CNPM	1.45	188	ePc	39	58.08	-1.1
			eS	40	15.42	
CUT	1.48	10	ePd	39	59.37	-0.2
			eS	40	18.48	
KNIM	1.64	110	ePc	40	01.11	-0.7
VLZ	2.19	83	eP	40	09.60	-0.2
SVW	2.34	276	eP	40	10.58	-1.5
CDD	2.48	216	eP	40	13.30	-0.7
TOA	2.51	61	eP	40	15.63	1.2

31 obs. associated

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* MAR 27, 1991 05h 00m 16.88± 0.64s
15.693 N ±10.3km 96.188 E ± 5.7km
DEPTH = 33.0km (normal)
4.4mb (7 obs.) 4.5Msz (1 obs.)
SOUTH BURMA (298)

KHT	2.49	111	iPn	00	55.90	-0.1
			ePg	01	11.00	
			eSg	01	37.40	
BDT	3.11	60	ePn	01	04.00	-0.8
			ePg	01	14.00	
			eSg	02	01.00	
NST	3.80	90	ePn	01	15.80	1.3
			e	01	17.90	
			e	01	34.00	
CHG	4.07	40	ePn	01	17.00	-1.4
			iPg	01	33.00	
			iSg	02	28.30	
NNT	4.62	131	ePn	01	22.40	-3.8X
			eSg	02	16.00	
LOE	5.58	71	ePn	01	39.00	-0.8
			e	01	45.00	
			e	02	02.00	
SHL	10.62	338	eP	02	41.60	-8.4X
			eS	04	37.00	
KMI	11.21	32	eP	03	02.00	3.9X
	Z 10s		4.20um			
QIZ	13.45	74	eP	03	29.00	1.0
	N 13s		2.90um			

```
      E  13s      2.70um
GYA     14.49   41 P       03 43.20    1.5
      Z  16s      1.30um
      N  12s      1.30um
      E  12s      1.60um
                  S       06 18.60
KKN     15.72  322 P       03 58.80    1.0
CD2     16.66   23 P       04 08.50   -1.0
      Z  12s      2.30um
                  S       07 13.50
HYB     16.99  278 eP      04 14.70    0.9
GBA     18.26  266 Pc      04 27.20   -2.3
        0.8s      3.10nm              3.5mb
KOD     19.03  256 eP      04 42.40    3.2X
LZH     21.43   17 eP      05 04.00   -0.5
        1.5s     57.00nm              4.8mb
      Z  14s      5.15um              5.1MszX
      N  12s      3.67um
                  pP      05 10.50   24kmX
                  PP      05 26.50
                  S       09 00.00
POO     21.53  281 eP      05 06.00    0.5
XAN     21.58   30 iPd     05 05.00   -0.8
      E  10s      0.90um
NDI     21.77  310 eP      05 08.00    0.2
                  eS      09 12.00
GTA     23.84    7 eP      05 30.40    2.3
      Z  22s      1.90um              4.5Msz
      E  24s     10.70um
NJ2     26.27   48 Pd      05 55.00    3.9X
      Z  13s      2.10um              4.9MszX
      N  14s      2.20um
      E  12s      2.00um
WRA     51.58  132 P       09 22.00   -0.4
        1.0s      6.40nm              4.5mb
ASPA    53.75  136 iPc     09 42.10    3.6X
        1.3s      6.40nm              4.5mb
HFS     72.80  329 eP      11 42.50   -1.3
        0.8s      2.80nm              4.3mb
NB2     73.98  330 P       11 49.70   -1.0
        0.7s      1.90nm              4.2mb
BCAO    76.94  271 iPd     12 10.10    1.6
        0.5s      7.00nm              4.9mb
     S.D. = 1.3   on  20 of  26 obs.
--------------------------------------------
   MAR  27, 1991   05h 28m 32.80± 0.26s
    5.558 S ± 6.6km   103.016 E ± 7.4km
   DEPTH =  33.0km   (normal)
   4.9mb (  9 obs.)  4.7Msz (  4 obs.)
 SOUTHERN SUMATERA                (274)

KHT     20.68  348 eP      33 11.40   -1.3
MBL     22.50  135 iPc     33 31.00    0.0
CHG     24.55  351 eP      33 51.00    0.1
CHTO    24.55  351 P       33 51.00    0.1
        1.0s     22.50nm              4.7mb
QIZ     25.34   15 eP      34 03.20    4.7X
CGP     25.71   57 eP      34 09.00    7.0X
        1.0s      3.00nm              3.8mb X
KOD     29.89  302 eP      34 41.30    0.9
GBA     31.74  307 Pc      34 55.30   -0.9
        0.9s      6.60nm              4.5mb
SHL     32.77  341 iP      35 04.60   -0.8
ASPA    34.75  124 iPd     35 21.70   -0.7
        1.1s     45.60nm              5.3mb
                  eS      41 02.40
CD2     36.27    1 eP      35 35.20    0.1
LSA     36.86  343 eP      35 41.70    1.1
KKN     37.32  334 P       35 44.20    0.0
QIS     38.51  116 iPd     35 54.00   -0.1
        0.6s     15.00nm              5.0mb
XAN     39.78    8 eP      36 04.30   -0.2
LZH     41.43    1 eP      36 19.50    1.4
        2.0s     36.00nm              4.8mb
      Z  14s      0.34um              4.4MszX
                  pP      36 28.00   29kmX
                  sP      36 36.50
NDI     42.14  325 iPc     36 24.00    0.1
        0.7s     27.40nm              5.1mb
PMG     43.91   98 e(P)    36 38.00   -0.5
TIY     43.93   11 eP      36 38.90    0.4
      Z  18s      1.00um              4.8Msz
      N  18s      1.20um
                  eS      43 14.00
QLP     44.50  123 iPc     36 44.00    0.8
STK     44.56  131 eP      37 03.20   19.7X
        0.8s     28.80nm

HHC     46.84    9 eP      37 03.00    1.4
BJI     46.96   14 eP      37 03.00    0.6
      Z  18s      0.35um              4.4Msz
CMS     47.64  128 iPc     37 08.00    0.0
BFD     47.85  137 iPc     37 09.70    0.2
COO     52.17  125 eP      37 44.00    1.2
CN2     53.14   20 eP      37 48.00   -1.7
      Z  17s      0.90um              4.9MszX
                  epP     37 58.00   33kmX
                  eS      45 18.00
MBH     74.05  303 eP      40 07.00   -0.8
PRNI    74.12  304 eP      40 08.00    0.0
JVI     74.28  305 eP      40 09.00    0.0
ATZ     74.60  306 eP      40 11.00    0.2
YLV     81.30  312 iP      40 47.10   -0.5
VRI     84.49  317 ePd     41 04.00    0.3
MLR     84.94  317 eP      41 06.00   -0.1
BCAO    84.95  275 iPd     41 05.10   -1.6
        0.6s      8.00nm              5.1mb
NUR     89.10  331 eP      41 26.00    0.2
SPC     89.45  319 eP      41 28.40    0.4
KRA     89.78  320 iPc     41 30.00    0.7
SRO     90.52  318 iP      41 34.00    1.2
ZST     91.38  318 eP      41 37.00    0.3
KSP     92.20  321 eP      41 41.00    0.6
BRG     93.68  321 iP      41 48.50    1.2
HFS     94.44  330 eP      41 50.10   -0.4
        0.8s      6.10nm              5.1mb
NB2     95.70  331 P       41 55.80   -0.6
        0.8s      1.70nm              4.5mb
INK    107.06   19 ePKP    46 55.00   -1.4
YKA    116.82   19 ePKP    47 13.50   -1.7
        0.7s      1.80nm
PNT    123.50   32 ePKP    47 29.00    0.5
SES    126.99   27 ePKP    47 35.00   -0.2
ALQ    140.06   39 ePKP    47 59.00   -1.6
TUL    145.19   27 ePKP    48 07.90   -1.2
        1.2s     28.00nm
      Z  18s      0.13um              4.7Msz
SIV    153.42  216 PKP     48 21.60   -0.8
CCH    154.82  205 ePKP    48 26.00    1.4
CNCB   156.06  202 PKP     48 28.00    1.4
LPB    156.36  202 ePKP    48 37.00   10.2X
ZOBO   156.61  202 PKP     48 27.60    0.2
      Z  20s      0.09um              4.6Msz
                  LR      24 48.00
     S.D. = 0.9   on  51 of  55 obs.
--------------------------------------------
&  MAR  27, 1991   05h 50m 48.90s
   38.627 N          120.172 W
   DEPTH =  20.0km
 NORTHERN CALIFORNIA               ( 36)
     <BRK>, ML 3.2 (BRK). Felt (IV)
     ot Kirkwood.

ORV      1.39  312 eP      51 13.10   -0.1
BONR     1.62  114 eP      51 18.00    1.2
ARN      1.67  221 eP      51 19.10    1.8
FRI      1.67  167 eP      51 18.50    1.2
                  iS      51 39.70
KVN      1.67   75 eP      51 17.60    0.1
MHC      1.73  223 eP      51 20.50    2.2
BKS      1.79  246 iPd     51 20.60    1.6
                  eS      51 44.60
BRK      1.81  246 eP      51 20.70    1.4
PCC      2.08  238 eP      51 24.80    1.6
LLA      2.10  197 eP      51 25.70    2.2
SAO      2.12  209 eP      51 25.50    1.7
NWRM     2.14  266 eP      51 25.00    1.0
TNP      2.39  102 eP      51 28.00    0.2
WDC      2.67  318 eP      51 32.70    1.0
LBFM     3.02  335 eP      51 37.50    0.7
BCH      3.44  179 eP      51 45.00    2.4
        16 obs. associated
--------------------------------------------
*  MAR  27, 1991   06h 37m 19.45± 0.92s
   21.938 N ± 8.7km   121.875 E ±14.7km
   DEPTH =  10.0km   (geophysicist)
   4.1mb (  2 obs.)
 TAIWAN REGION                    (243)

TWF1     1.51  339 ePc     37 46.00   -0.5
TWD      2.15  353 eP      37 56.40    0.6
CVP      4.21  181 iPc     38 16.00   -9.1X
                  eS      39 02.00
QZH      4.25  315 ePn     38 27.00    1.4
                  Sn      39 18.00

SZP      4.56  197 eP      38 30.00   -0.1
SSE      9.14  356 e(P)    39 30.00   -4.3X
      Z  18s      0.40um
QIZ     11.64  258 eP      40 04.40   -4.3X
TIY     17.71  335 eP      41 25.80   -2.0
      Z  15s      0.71um
      E  18s      1.00um
                  S       44 44.00
CD2     18.50  303 eP      41 37.70    0.0
LZH     21.10  316 eP      42 11.00    4.3X
        1.6s     29.00nm              4.4mb
      Z  14s      0.24um              3.7MszX
MDJ     23.50   14 eP      42 30.50    0.3
INK     75.06   22 eP      49 03.50    0.7
YKA     84.78   23 eP      49 54.50   -0.5
        0.8s      0.40nm              3.7mb
     S.D. = 1.1   on   9 of  13 obs.
--------------------------------------------
?  MAR  27, 1991   07h 16m 12.61± 2.94s
    7.742 S ±23.3km    78.471 W ±47.4km
   DEPTH = 187.4 ± 24.6 km
   3.3mb (  1 obs.)
 NORTHERN PERU                    (111)

VC1      7.06    1 P       17 53.80   -1.1
CAYA     7.79    4 eP      18 05.50    0.9
COTA     8.02    1 eP      18 08.00    0.3
ARE     11.03  142 eP      18 47.00    0.3
ZOBO    13.19  131 P       19 13.00   -1.7
                  S       23 20.00
LPB     13.38  132 P       19 16.00   -0.8
CNCB    13.64  132 P       19 22.00    1.7
CCH     15.37  130 eP      19 42.00    0.4
SIV     18.89  117 P       20 21.40    0.1
KIC     74.86   81 P       27 41.00    6.2X
YKA     75.34  344 eP      27 36.50   -0.1
        0.7s      0.40nm              3.3mb
     S.D. = 1.2   on  10 of  11 obs.
--------------------------------------------
*  MAR  27, 1991   07h 44m 23.70± 1.18s
   36.164 N ±17.5km   24.146 E ±10.7km
   DEPTH = 123.5 ± 19.9 km
 SOUTHERN GREECE                  (368)
     MD 3.5 (ATH).

VLI      1.12  300 iPnc     44 47.50    0.0
NPS      1.49  127 ePn      44 51.40   -0.3
ATH      1.84  349 ePn      44 55.50   -0.2
ARG      3.22   88 ePn      45 14.00    0.3
VLS      3.48  306 ePn      45 18.00    0.8
BRT      7.19  313 P        46 07.10   -0.6
                  eSn     47 19.00
MGR      7.84  303 P        46 16.40   -0.1
                  eSn     47 28.10
     S.D. = 0.6   on   7 of   7 obs.
--------------------------------------------
*  MAR  27, 1991   08h 05m 09.49± 1.25s
   21.776 N ± 8.3km   122.170 E ±18.4km
   DEPTH =  10.0km   (geophysicist)
   3.9mb (  3 obs.)  3.7Msz (  1 obs.)
 TAIWAN REGION                    (243)

TWG      1.45  316 eP      05 33.70   -2.1
                  eS      05 52.10
TWF1     1.76  333 ePc     05 39.00   -1.3
                  eS      06 02.50
PIP      3.73  203 iPd     06 08.50    0.1
CVP      4.06  185 ePc     06 12.00   -1.0
                  eS      06 59.50
SZP      4.50  201 eP      06 25.00    5.7X
QZH      4.55  314 ePn     06 21.00    1.0
NJ2     10.65  345 eP      07 50.50    5.4X
      Z  14s      0.30um
      E  10s      0.60um
QIZ     11.88  259 eP      08 07.50    5.6X
XAN     16.90  319 eP      09 12.00    4.3X
TIY     17.97  334 eP      09 30.60    9.5X
      Z  16s      0.50um
      N  10s      0.49um
CD2     18.82  303 eP      09 32.20    0.6
HHC     21.03  337 eP      10 01.40    5.5X
LZH     21.41  316 eP      10 01.00    1.2
        2.0s     36.00nm              4.4mb
      Z  18s      0.29um              3.7Msz
CHG     21.98  266 eP      10 05.90    0.4
CHTO    21.98  266 eP      10 05.80    0.3
        1.2s      6.25nm              3.9mb
```

27d 08h

CN2		22.13	6	eP	10	10.00	3.2X				pP	21	00.00	31kmX	PGF		2.21	301	Pn	49	59.40	1.5
	Z	15s		1.20um			4.4MszX				sP	21	05.00						Sn	50	24.50	
	N	12s		0.30um							PP	21	49.00		ARV		2.29	26	P	49	59.40	0.5
	E	12s		0.30um							eS	25	52.00						eSn	50	25.50	
				epP	10	17.00	25kmX	OIS	36.53	154	iPd	21	52.30	-0.3	SSO		2.30	36	e(Pn)	49	58.04	-1.0
				eS	14	10.00		ASPA	37.41	164	iPc	22	00.80	0.7	FIR		2.35	354	ePn	50	00.00	0.3
YKA		84.83	23	eP	17	46.10	0.9		0.7s		14.70nm			5.0mb					i(Sn)	50	33.00	
		0.4s		0.10nm			3.4mb	GUN	38.25	299	P	22	07.60	0.1	PGD		2.44	3	P	50	01.70	0.6
	S.D. = 1.2 on 10 of 17 obs.							PKI	38.56	299	P	22	10.00	-0.1	SFI		2.49	5	P	50	01.70	0.1
----------								KKN	38.73	299	P	22	11.50	0.1	AOI		2.59	35	e(Pn)	50	03.85	0.7
* MAR 27, 1991 08h 29m 06.58± 0.91s									1.0s		46.00nm			5.2mb	BDI		2.72	345	P	50	04.70	-0.3
2.336 N ±12.6km 83.162 W ±14.0km								DMN	38.83	299	P	22	12.40	0.1	MME		2.83	347	P	50	07.00	0.3
DEPTH = 10.0km (geophysicist)								GKN	39.33	299	P	22	15.80	-0.6	SGO		2.96	106	P	50	07.40	-1.0
4.4mb (3 obs.)									1.2s		60.00nm			5.2mb	MGR		3.29	112	P	50	14.20	1.1
OFF COAST OF CENTRAL AMERICA (76)								HYB	43.58	282	eP	22	51.50	0.4	BOB		3.67	336	P	50	19.80	1.2
								KLB	44.23	187	eP	22	55.00	-1.1	IMI		3.67	313	P	50	18.98	0.4
YANA		5.19	118	ePn	30	25.60	-1.1	GBA	44.79	277	Pd	23	00.80	-0.1	FIN		3.71	319	P	50	19.49	0.4
				Pg	30	26.10			0.9s		5.90nm			4.5mb	PCP		3.81	325	P	50	24.64	4.1X
GGP		5.20	119	ePn	30	26.00	-0.9	NWAO	45.61	187	eP	23	06.50	-0.6	SBF		3.90	310	Pn	50	21.30	-0.4
COTA		5.22	112	P	30	26.00	-1.0	RKG	46.76	187	eP	23	20.00	3.8X					Sn	51	04.40	
QUIL		5.23	126	eP	30	27.60	0.4	STK	47.47	159	iPd	23	42.10	20.3X	ROB		3.94	318	P	50	22.92	0.6
QUR		5.26	118	eP	30	26.50	-1.1		0.8s		3.40nm				ORI		3.95	109	P	50	22.50	0.0
QTO		5.27	119	eP	30	27.60	-0.2				i	24	32.90		HVAR		4.01	63	iPn	50	23.70	0.4
VC1		5.60	122	P	30	33.70	1.3	CMS	48.76	154	eP	23	32.00	0.2	TDS		4.04	115	P	50	23.70	0.0
CAYA		5.64	113	iP+	30	33.50	0.5	TTA	74.60	28	e(P)	26	31.40	5.8X	ENR		4.13	314	P	50	23.61	-1.5
TUNG		6.01	128	P	30	39.50	1.4	BRW	74.92	19	e(P)	26	28.60	1.4	STV		4.20	313	P	50	25.84	-0.2
ANGL		6.24	116	eP	30	30.80	-10.5X	IMA	75.72	25	eP	26	31.80	-0.2	LMR		4.20	298	Pn	50	25.60	-0.4
UPA		7.52	29	iPc	31	00.00	1.0		1.0s		8.50nm			4.7mb					Sn	51	11.60	
		1.0s		60.00nm			5.7mb X	PMR	77.84	29	e(P)	26	41.50	-2.1	FRF		4.21	302	Pn	50	26.20	0.0
ZOBO		23.72	142	P	34	21.00	0.6		1.0s		17.10nm			5.0mb					Sn	51	11.80	
	Z	24s		0.20um			3.5MszX	INK	83.19	21	eP	27	12.00	0.0	BRT		4.29	96	P	50	25.50	-1.8
				LR	41	26.00		MBC	84.10	12	eP	27	19.00	2.5	LRG		4.35	299	Pn	50	28.60	0.5
LPB		23.93	142	P	34	29.00	6.7X		1.0s		9.00nm			4.9mb					Sn	51	15.60	
CNCB		24.22	142	P	34	29.00	3.8X	VRI	85.73	316	ePc	27	30.00	4.8X	PZZ		4.49	315	P	50	30.48	0.3
CCH		25.80	140	P	34	58.60	18.6X	MLR	86.35	316	eP	27	32.00	3.5X	TRI		4.55	20	eP	50	30.00	-1.0
SIV		28.43	131	P	35	18.40	14.6X	SKO	90.45	313	eP	27	52.00	4.1X					e	51	24.40	
ALO		39.01	329	eP	36	36.00	0.7	OHR	91.16	312	eP	27	54.00	2.7X					e	51	54.00	
		0.9s		3.36nm			4.0mb	YKA	92.79	23	eP	27	57.30	-0.9	CTI		4.61	1	P	50	30.90	-1.0
YKA		64.43	344	eP	39	43.00	-2.0		0.9s		1.40nm			4.4mb	BHB		4.64	319	P	50	30.82	-1.4
		0.6s		1.60nm			4.4mb	LPB	168.13	111	(PKP)	35	06.00	12.5X	CEY		4.77	25	eP	50	37.50	3.4X
INK		74.06	343	eP	40	44.00	-0.2	CNCB	168.15	112	PKP	34	59.00	5.3X					e(Sn)	51	25.50	
MBC		76.57	352	eP	40	59.00	0.6	ZOBO	168.18	110	PKP	35	02.00	8.2X	CDR		4.83	299	e(Pg)	50	36.00	1.0
		1.0s		5.00nm			4.6mb		Z 24s		0.13um								e	50	37.10	
S.D. = 1.1 on 15 of 20 obs.											LR	34	04.00						e(Sn)	51	26.30	
----------								S.D. = 1.1 on 30 of 46 obs.											i	51	27.70	
MAR 27, 1991 09h 14m 48.08± 0.35s								----------											i	51	30.00	
12.550 N ± 5.4km 123.461 E ± 6.2km								% MAR 27, 1991 09h 48m 44.27± 0.84s							RSP		4.87	321	P	50	37.17	1.6
DEPTH = 33.0km (normal)								40.777 N ± 7.0km 29.340 E ± 6.9km							VBY		4.87	32	eP	51	00.60	25.2X
5.0mb (13 obs.) 5.1Msz (1 obs.)								DEPTH = 10.0km (geophysicist)							VAI		4.87	336	P	50	36.60	1.2
LUZON, PHILIPPINE ISLANDS (249)								TURKEY (366)							VOY		4.89	19	e(Pn)	50	35.60	-0.2
																			eSn	51	21.00	
PLP		2.03	133	eP	15	14.00	-6.6X	GBZT	0.08	82	ePg	48	46.80	0.1	RRL		4.93	316	P	50	40.78	4.2X
				iS	15	21.00					iSg	48	48.80		LJU		5.08	24	eP	50	52.00	13.6X
MAP		2.27	167	ePd	15	24.00	0.0	YLV	0.21	173	iPg	48	48.90	0.0	FVI		5.22	9	P	50	39.50	-0.9
				iS	15	52.00		HRT	0.25	80	iPg	48	49.60	-0.1	VDL		5.27	344	ePd	50	42.00	0.7
PGP		2.62	291	ePc	15	28.50	-0.5				eSg	48	53.60		OSS		5.34	349	ePd	50	43.40	1.0
				eS	16	02.00		IZI	0.45	167	ePg	48	53.50	0.0	LPG		5.36	321	Pn	50	43.70	1.0
QCP		3.11	312	eP	15	23.00	-13.0X	CTT	0.78	298	iPg	48	59.50	0.0					Sn	51	42.00	
CGP		4.25	163	eP	15	53.00	0.9	S.D. = 0.1 on 5 of 5 obs.							LPL		5.38	321	Pn	50	44.00	1.0
				eS	16	59.00		----------							DIX		5.53	328	ePd	50	48.70	3.6X
BAG		4.75	324	eP	15	57.00	-2.3	MAR 27, 1991 09h 49m 21.35± 0.48s							RSL		5.56	321	P	50	49.19	3.7X
CVP		5.36	343	eP	16	10.00	2.1	41.441 N ± 4.8km 11.573 E ± 2.7km							EMS		5.72	326	ePc	50	50.20	2.5X
				eS	16	50.00		DEPTH = 17.5 ± 2.7 km							LLS		5.73	342	ePc	50	50.50	2.6X
PPR		5.40	240	iPc	16	08.00	-0.4	3.8mb (3 obs.)							KBA		5.78	12	iPnd	50	47.40	-1.0
SZP		5.76	330	ePd	16	26.50	13.0X	TYRRHENIAN SEA (389)											iSn	51	53.60	
DAV		5.81	159	eP	16	23.00	8.7X	MD 3.9 (STR). ML 3.7 (LDG).											i	51	57.00	
PIP		6.36	335	iPd	16	22.00	0.0								SAX		6.02	345	ePd	50	53.70	1.7
PJG		20.88	85	eP	19	29.30	-0.7	RDP	0.91	69	P	49	39.20	0.8	SLE		6.69	342	ePc	51	00.60	-0.7
GUA		20.92	85	eP	19	30.00	-0.5				eSg	49	50.50		OHR		6.96	90	eP	51	08.00	3.0X
		1.2s		225.00nm			5.4mb	RMP	0.92	66	P	49	39.00	0.5	BSF		7.24	334	Pn	51	08.00	-1.0
KMI		23.22	306	Pd	19	56.50	3.0X				eSg	49	51.10						Sn	52	25.00	
		1.5s		160.00nm			5.3mb	MAO	1.02	342	P	49	40.50	0.3	SKO		7.40	83	eP	51	16.00	4.8X
	Z	25s		2.70um			4.6MszX				eSg	49	55.50		HAU		7.54	332	Pn	51	12.00	-1.1
				S	24	05.00		MNS	1.25	41	P	49	43.80	-0.2	CDF		7.61	338	Pn	51	12.70	-1.4
				sS	24	16.00					eSg	49	59.40		CAF		7.77	300	Pn	51	15.00	-1.4
IPM		23.54	252	ePd	19	57.90	1.4	AZI	1.50	68	P	49	48.20	0.8	LBF		7.77	318	Pn	51	15.00	-1.4
CHTO		24.40	288	eP	20	04.60	-0.2				eSn	50	06.40		KHC		7.82	10	eP	51	17.00	0.0
		1.0s		10.00nm			4.3mb	AQU	1.64	56	P	49	49.40	-0.2					e	52	01.50	
BJI		28.13	348	eP	20	42.00	2.9X				eSn	50	08.80		TCF		8.32	309	Pn	51	23.00	-1.0
		1.5s		58.00nm			5.1mb	SDI	1.70	80	P	49	50.30	-0.2	BRG		9.58	9	i(P)	51	58.40	17.1X
	Z	16s		1.16um			4.6MszX				eSn	50	11.40				1.2s		20.00nm			
	E	15s		1.35um				ASS	1.82	26	P	49	51.30	-0.8	MLR		11.20	64	eP	52	15.00	11.3X
				eS	25	20.00					eSn	50	14.00		NB2		19.63	359	P	53	51.60	-0.1
LZH		29.35	326	eP	20	51.00	0.6	ALP	2.00	47	ePn	49	56.40	1.5			0.8s		1.20nm			3.2mb
		2.0s		71.00nm			5.1mb	DUI	2.18	83	P	49	57.70	0.3	NUR		20.72	18	eP	54	20.00	17.0X
	Z	18s		3.78um			5.1Msz				eSn	50	22.00		KAF		22.51	18	eP	54	21.30	0.2
	N	14s		1.81um				CRE	2.20	7	P	49	58.00	0.2			0.7s		4.00nm			4.0mb

YKA 67.80 336 eP 00 20.70 0.9
0.8s 0.80nm 3.9mb
S.D. = 0.9 on 62 of 76 obs.

% MAR 27, 1991 10h 02m 38.04± 0.95s
39.143 N ± 7.5km 27.539 E ±13.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZM 0.78 196 ePg 02 53.10 -0.1
eSg 03 05.10
DST 0.96 61 ePn 02 56.90 0.5
BNT 1.25 13 ePn 03 01.00 -0.2
KCT 1.27 29 ePn 03 00.90 -0.7
KGT 1.32 352 ePn 03 02.90 0.5
S.D. = 0.8 on 5 of 5 obs.

MAR 27, 1991 10h 08m 03.63± 0.97s
40.120 N ± 7.8km 29.296 E ± 8.5km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZI 0.26 32 ePg 08 09.00 -0.1
YLV 0.45 8 iPg 08 12.40 -0.4
eSg 08 19.40
GBZT 0.68 10 ePg 08 19.50 2.4X
iSg 08 31.50
DST 0.73 225 iPg 08 17.90 0.0
iSg 08 27.10
HRT 0.76 22 iPg 08 18.10 -0.4
EYL 0.80 56 ePg 08 19.40 0.2
ISK 0.96 349 ePg 08 23.00 1.1
CTT 1.22 328 iPg 08 25.90 -0.4
S.D. = 0.7 on 7 of 8 obs.

? MAR 27, 1991 10h 11m 31.88± 0.99s
39.152 N ± 7.7km 27.531 E ±13.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZM 0.78 196 ePg 11 47.10 0.0
eSg 11 59.10
DST 0.96 62 ePn 11 50.40 0.2
BNT 1.24 14 ePn 11 54.50 -0.4
KGT 1.31 352 ePn 11 56.40 0.3
S.D. = 0.5 on 4 of 4 obs.

% MAR 27, 1991 10h 17m 15.98± 1.72s
40.494 N ±10.2km 23.658 E ±18.1km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 1.7 (THE).

SOH 0.40 325 iPc 17 24.69 0.5
eS 17 33.05
THE 0.55 285 ePd 17 27.30 0.3
iS 17 37.14
PAIG 0.57 178 iPc 17 27.50 0.0
eS 17 35.82
KNT 0.88 319 ePd 17 32.50 -0.4
eS 17 44.26
GRG 1.06 296 ePd 17 35.58 -0.4
S.D. = 0.6 on 5 of 5 obs.

• MAR 27, 1991 10h 22m 26.13± 1.33s
40.084 N ±10.7km 29.281 E ±12.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YLV 0.49 8 iPg 22 34.90 -1.1
DST 0.69 227 ePg 22 39.90 0.0
iSg 22 49.90
GBZT 0.71 10 ePg 22 42.00 1.8
iSg 22 54.00
EYL 0.82 54 ePg 22 41.80 -0.4
CTT 1.24 329 iPg 22 48.90 -0.3
S.D. = 1.5 on 5 of 5 obs.

? MAR 27, 1991 10h 24m 44.40± 3.31s
39.648 N ±27.0km 29.476 E ±19.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

DST 0.66 267 ePg 24 57.40 -0.1
eSg 25 07.90
YLV 0.92 355 ePn 25 01.90 -0.1
EYL 1.06 29 ePn 25 04.40 0.0
BNT 1.39 301 ePn 25 10.00 0.2
S.D. = 0.3 on 4 of 4 obs.

? MAR 27, 1991 10h 55m 42.08± 0.98s
39.133 N ± 7.8km 27.559 E ±13.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZM 0.77 198 iPg 55 57.10 0.0
eSg 56 10.10
DST 0.95 60 ePn 56 00.40 0.1
BNT 1.25 13 ePn 56 05.00 -0.4
KGT 1.33 352 ePn 56 06.90 0.3
S.D. = 0.5 on 4 of 4 obs.

? MAR 27, 1991 11h 26m 35.19± 4.10s
39.586 N ±30.9km 29.471 E ±22.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

DST 0.65 272 ePg 26 47.40 -0.8
IZI 0.75 0 ePg 26 49.60 -0.3
YLV 0.98 356 iPn 26 53.30 -0.6
EYL 1.11 28 ePn 26 56.40 0.3
BNT 1.42 303 ePn 27 02.50 1.5
S.D. = 1.3 on 5 of 5 obs.

MAR 27, 1991 11h 54m 24.31± 0.46s
5.566 N ± 9.1km 31.967 E ± 7.1km
DEPTH = 10.0km (geophysicist)
4.3mb (1 obs.) 4.5Msz (1 obs.)
SUDAN (557)

AAE 7.57 63 ePn 56 18.70 1.0
NAI 8.34 144 iPd 56 27.60 -0.7
1.0s 208.00nm 6.4mb X
BCAO 13.43 266 iPc 57 33.10 -4.4X
0.2s 28.00nm 5.9mb X
iS 00 06.50
Lg 01 09.00
KRI 22.37 186 iP 59 29.30 4.8X
eS 03 27.90
iLg 06 16.90
BUL 25.76 187 iP 59 57.80 0.6
iS 04 12.90
iLg 07 41.90
KIC 36.51 273 P 01 32.20 0.1
TIC 36.79 274 P 01 34.80 0.4
LIC 36.80 273 P 01 34.70 0.2
Z 22s 0.80um 4.5Msz
MLR 40.11 353 eP 02 05.00 3.0X
KHC 46.13 343 eP 02 55.30 4.7X
GKN 54.64 60 P 03 55.40 -0.6
DMN 54.95 60 P 03 59.50 1.0
KKN 55.14 60 P 03 59.70 -0.1
PKI 55.20 60 P 04 00.20 -0.2
GUN 55.69 60 P 04 03.50 -0.4
NB2 57.51 348 P 04 14.80 -1.2
0.8s 2.30nm 4.3mb
S.D. = 0.8 on 12 of 16 obs.

• MAR 27, 1991 12h 48m 01.79± 0.82s
41.694 N ±19.2km 19.930 E ±13.4km
DEPTH = 10.0km (geophysicist)
ALBANIA (391)
ML 2.5 (TTG).

ULC 0.58 298 ePg 48 14.00 0.5
eSg 48 24.50
OHR 0.88 131 iPg 48 18.00 -0.7
iSg 48 31.70
TTG 0.89 326 ePg 48 18.00 -0.8
eSg 48 32.00
BDV 1.01 306 ePg 48 21.00 0.1
eSg 48 39.00
HCY 1.30 306 ePg 48 26.00 0.1
eSg 48 48.00
VAY 2.02 100 ePn 48 37.00 0.8
S.D. = 0.8 on 6 of 6 obs.

? MAR 27, 1991 13h 25m 38.83± 1.02s
40.806 N ±12.1km 29.626 E ± 8.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

HRT 0.04 64 iPg 25 40.90 0.0
GBZT 0.14 263 ePg 25 42.00 -0.1
iSg 25 44.40
YLV 0.31 219 iPg 25 45.30 0.0
iSg 25 50.30
CTT 0.97 291 iPg 25 57.30 0.1
S.D. = 0.1 on 4 of 4 obs.

? MAR 27, 1991 15h 02m 22.72± 1.47s
45.534 S ±31.9km 95.922 E ±14.8km
DEPTH = 10.0km (geophysicist)
4.7mb (8 obs.) 5.0Msz (1 obs.)
SOUTHEAST INDIAN RISE (435)

ASPA 37.64 68 eP 09 39.40 -0.1
1.3s 9.50nm 4.4mb
WRA 40.60 64 P 10 04.00 -0.2
1.1s 6.90nm 4.3mb
WB2 40.61 64 eP 10 04.10 -0.2
1.1s 5.50nm 4.2mb
CTA 48.35 76 eP 11 06.00 -0.5
1.0s 14.00nm 5.0mb
iS 18 10.00
KHT 60.08 3 eP 12 31.00 -1.2
CHTO 64.10 3 eP 13 02.00 2.9
1.1s 4.71nm 4.6mb
HYB 64.60 342 eP 13 02.00 -0.5
KMI 70.59 7 eP 13 45.00 4.8X
Z 18s 0.70um 5.0Msz
S 23 05.00
PKI 73.38 350 PKP 13 56.70 -0.2
DMN 73.45 350 PKP 13 57.60 0.4
KKN 73.61 350 PKP 13 56.70 -1.4
GUN 73.66 351 PKP 13 58.40 -0.1
1.0s 49.00nm 5.5mb
GKN 73.90 350 P 13 58.60 -1.0
LZH 81.56 6 eP 14 43.00 1.3
2.0s 25.00nm 4.9mb
i 15 08.00
BCAO 84.35 282 ePc 14 56.00 -0.5
0.5s 3.00nm 4.8mb
MBC 145.89 14 ePKP 22 03.00 1.3
S.D. = 1.2 on 15 of 16 obs.

? MAR 27, 1991 15h 03m 17.34± 1.54s
41.136 N ±31.4km 28.459 E ±15.6km
DEPTH = 5.0km (geophysicist)
TURKEY (366)

CTT 0.03 297 iPg 03 18.30 -0.2
ISK 0.46 99 ePg 03 26.00 -0.5
DMK 0.86 323 iPg 03 34.60 0.2
iSg 03 47.60
HRT 0.97 109 iPg 03 36.80 0.6
S.D. = 0.8 on 4 of 4 obs.

? MAR 27, 1991 15h 27m 28.06± 8.40s
17.853 N ±34.6km 65.739 W ±44.8km
DEPTH = 10.0km (geophysicist)
PUERTO RICO REGION (90)

CPD 0.25 318 P 27 34.30 0.9
SJG 0.47 303 iP 27 36.90 -0.7
LPR 0.47 345 P 27 37.30 -0.3
S 27 40.40
MGP 1.29 277 P 27 52.00 0.0
S.D. = 1.2 on 4 of 4 obs.

MAR 27, 1991 15h 34m 10.35± 0.95s
48.229 N ± 6.9km 152.889 E ± 4.6km
DEPTH = 117.6 ± 10.0 km
4.8mb (51 obs.)
KURIL ISLANDS (221)

KUSJ 7.69 231 P 36 00.40 -0.6
eS 37 21.50
ASAJ 8.21 244 eP 36 13.60 5.5X
HOOJ 8.94 233 eP 36 18.70 0.8
eS 37 52.80
MRRJ 10.14 239 eP 36 34.40 0.4
eS 38 20.90
AOMJ 11.78 234 eP 36 53.30 -2.3
OFUJ 12.22 226 P 36 58.20 -3.2X
eS 39 06.20
YAMJ 13.72 228 eP 37 18.80 -2.2
NIIJ 14.96 228 P 37 35.60 -1.2
KAKJ 15.24 223 eP 37 38.40 -1.9
MAT 15.91 228 iPc 37 49.50 0.9
0.7s 64.38nm 5.0mb

27d 15h

CHJJ	15.92	225	P	37	48.90	0.2		0.5s	5.90nm		4.7mb	CFA	3.78	113	ePd	39	11.90	0.7
MTMJ	16.07	229	P	37	51.70	0.9	PV09	67.16	57 eP	44	53.00 -0.7				eS	39	57.10	
MDJ	16.45	266	eP	37	56.50	1.2	GOL	68.40	54 iP	45	01.50 0.1	TCA	6.74	102	ePd	39	49.70	-3.5X
	0.8s	80.00nm			5.0mb			0.9s	7.58nm		4.6mb				(S)	41	08.30	
IIDJ	16.89	227	P	38	01.20	0.3	POO	69.17	275 iPc	45	05.20 -0.9	CNCB	13.88	18	P	41	33.00	1.9
WKYJ	19.05	229	eP	38	26.10	0.3		0.8s	22.39nm		5.0mb	LPB	14.12	17	(P)	41	35.00	0.9
YONJ	19.43	235	eP	38	30.60	0.9	WB2	69.86	199 iPc	45	09.20 -0.8	ZOBO	14.36	16	P	41	38.00	0.5
CN2	19.52	267	Pd	38	28.20	-2.4		0.7s	19.10nm		5.0mb		Z 24s		0.10um			
	0.8s	200.00nm			5.5mb		WRA	69.87	199 P	45	09.00 -1.1				LR	50	32.00	
TKSJ	20.03	232	eP	38	36.50	0.6		0.9s	18.60nm		4.9mb	SIV	17.48	39	P	42	14.20	-2.6
SHNJ	21.52	237	eP	38	52.50	1.6	GBA	70.30	268 Pd	45	11.10 -1.8	PPD	20.50	72	(P)	42	49.00	-2.8
SNY	21.60	264	Pd	38	52.30	0.7		0.8s	11.50nm		4.8mb	KIC	74.13	73	P	49	48.80	-0.4
	0.8s	30.00nm			4.7mb		ANMO	71.19	59 eP	45	18.60 0.3		0.6s		2.50nm			4.4mb
	Z 20s	0.50um			3.9Msz			1.0s	3.00nm		4.1mb		S.D. = 1.5 on 13 of 15 obs.					
KUMJ	22.86	235	eP	39	06.10	2.1	ASPA	73.57	198 iPc	45	32.80 0.8							
KAGJ	23.87	233	eP	39	15.40	1.6		0.6s	13.40nm		4.9mb	& MAR 27, 1991 15h 59m 56.89s						
DL2	24.35	259	eP	39	20.00	1.7	EKA	74.87	346 P	45	38.00 -1.1	62.539 N 148.455 W						
	1.0s	200.00nm			5.5mb			0.5s	3.70nm		4.4mb	DEPTH = 61.0km						
BJI	27.38	266	eP	39	47.00	0.8	GAC	77.34	32 eP	45	52.00 -1.1	CENTRAL ALASKA						(1)
	Z 28s	0.34um			3.8MszX			0.5s	7.00nm		4.7mb	<AEIC>.						
ANM	27.61	38	e(P)	39	48.80	0.8	FVM	77.38	46 iP	45	52.50 -1.0							
SSE	29.52	246	Pc	40	06.80	1.3		0.8s	21.21nm		5.0mb	HUR	0.70	310	eP	00	11.11	-0.2
	1.0s	15.00nm			4.6mb		KBA	78.75	333 eP	46	01.00 -0.1				eS	00	22.55	
HHC	30.07	271	eP	40	10.00	-0.4		0.6s	5.00nm		4.5mb	GHO	0.80	196	iP	00	12.34	-0.3
	Z 24s	0.70um			4.2MszX				id	46	01.90				eS	00	24.62	
NJ2	30.32	250	Pc	40	13.50	1.0	CDF	79.23	337 eP	46	03.10 -0.5	CUT	0.85	262	eP	00	13.18	0.0
TIY	31.08	265	Pc	40	19.80	0.6		1.0s	10.00nm		4.6mb				eS	00	25.71	
TTA	31.43	43	iPc	40	22.70	0.7	HAU	79.84	338 eP	46	06.40 -0.4	RND	0.89	348	eP	00	13.39	-0.3
SVW	31.55	47	iPc	40	24.20	1.1		Z 18s	0.15um		4.4Msz				eS	00	26.23	
BRW	32.71	27	ePc	40	33.70	0.8	BSF	79.89	338 eP	46	06.50 -0.6	PLRM	1.00	199	iP	00	14.82	-0.3
IMA	32.71	37	iPc	40	33.60	0.4	LOR	81.14	339 eP	46	13.10 -0.5				eS	00	28.94	
	0.6s	22.30nm			5.1mb			0.9s	16.40nm		4.8mb	PWA	1.12	218	iP	00	17.16	0.5
RSO	32.97	48	eP	40	35.90	0.3		Z 19s	0.15um		4.4Msz	KNK	1.13	180	iP	00	16.99	0.1
WHN	34.19	253	iPd	40	46.40	0.3	LBF	81.38	339 eP	46	14.30 -0.6				iS	00	32.67	
	0.7s	20.00nm			5.0mb			0.7s	4.95nm		4.4mb	TOA	1.15	111	iP	00	17.33	0.1
SLKM	34.22	47	eP	40	46.10	-0.1	SSF	81.42	339 eP	46	14.60 -0.4	MCK	1.22	350	eP	00	18.53	0.5
PMR	34.66	45	eP	40	50.80	1.0	AVF	81.71	339 eP	46	16.40 -0.1				S	00	34.04	
	0.6s	13.80nm			5.0mb			0.6s	8.55nm		4.7mb	TRF	1.24	318	eP	00	18.18	-0.3
FBA	35.11	40	iPc	40	54.90	1.3	SMF	81.73	339 eP	46	16.40 -0.2				eS	00	35.05	
XAN	35.52	263	iPc	40	57.60	0.1		1.1s	19.55nm		4.8mb	SDG	1.35	89	eP	00	19.73	-0.2
TOA	36.01	44	iPc	41	02.70	1.4	BGF	82.04	340 eP	46	18.70 0.4	PMS	1.40	202	eP	00	20.94	0.3
LZH	37.72	270	eP	41	15.50	-0.6		0.6s	9.00nm		4.7mb				eS	00	40.57	
	1.4s	68.00nm			5.3mb		LPL	82.05	337 eP	46	19.10 0.5	PAX	1.44	71	iP	00	20.88	-0.3
BALM	37.97	46	eP	41	18.10	0.2		0.6s	5.85nm		4.6mb				eS	00	38.74	
GTA	38.61	277	P	41	23.60	0.1	LPG	82.06	337 eP	46	19.20 0.4	SUA	1.53	226	eP	00	23.03	0.6
	0.8s	10.00nm			4.7mb			0.8s	10.05nm		4.7mb	SKT	1.54	250	eP	00	23.12	0.6
INK	40.49	33	iPc	41	39.20	0.8	MAF	82.43	340 eP	46	20.90 0.6				eS	00	43.61	
	0.4s	10.00nm			4.9mb			0.5s	10.95nm		4.9mb	BWN	1.70	345	eP	00	24.52	-0.2
CD2	40.88	263	P	41	41.60	-0.5	TCF	82.45	340 eP	46	20.60 0.2	DDM	1.72	42	eP	00	25.21	0.2
	0.9s	100.00nm			5.6mb			0.8s	6.70nm		4.5mb	WRH	1.95	5	eP	00	27.16	-1.0
GYA	41.91	256	iPd	41	51.00	0.3	LSF	82.64	340 eP	46	21.50 0.1	HDA	1.99	19	eP	00	28.29	-0.5
MBC	43.26	20	ePc	42	01.00	0.1		0.9s	15.55nm		4.9mb	NEA	2.07	353	eP	00	29.73	0.0
	0.5s	4.00nm			4.4mb		MFF	82.67	342 eP	46	21.80 0.3	NCG	2.09	239	eP	00	30.23	0.0
WMQ	44.27	290	P	42	09.60	0.0		0.8s	9.40nm		4.7mb	CRP	2.17	236	eP	00	32.30	0.9
KMI	45.38	258	Pd	42	19.00	0.2	CAF	83.77	340 eP	46	27.90 0.7	SPU	2.18	233	eP	00	31.70	0.2
	1.0s	30.00nm			5.0mb			0.6s	4.50nm		4.5mb	SLKM	2.21	203	eP	00	32.33	0.5
YKA	49.83	37	eP	42	52.20	-0.4	LFF	84.06	341 eP	46	29.20 0.6	KNIM	2.23	171	eP	00	31.97	-0.1
	0.7s	13.50nm			5.0mb			0.4s	3.45nm		4.6mb	BGL	2.26	237	eP	00	33.58	1.0
LSA	50.06	272	eP	42	56.20	0.8	PGF	84.16	334 eP	46	30.00 0.7	CKL	2.28	236	eP	00	33.73	0.8
CHG	52.33	255	ePd	43	12.00	-0.1		0.9s	9.85nm		4.7mb	MDM	2.43	2	eP	00	33.98	-1.0
	0.9s	27.73nm			5.2mb		LPO	84.20	340 eP	46	29.80 0.5	GLB	2.45	115	eP	00	34.46	-0.8
PNT	54.45	53	eP	43	26.00	-1.4	EPF	85.96	340 eP	46	39.20 1.0	GLM	2.50	10	eP	00	34.83	-1.1
	0.8s	27.00nm			5.3mb		PEL	144.20	81 iPKPc	53	30.40 -3.1X	RDT	2.73	226	eP	00	39.19	0.0
GUN	54.74	274	P	43	29.60	-0.5		0.5s	28.17nm			RDN	2.90	227	eP	00	41.92	0.3
KKN	55.21	274	P	43	33.40	0.0	PPD	147.48	45 (PKP)	53	41.00 1.9	TGL	3.23	121	eP	00	46.75	0.5
PKI	55.27	274	P	43	33.20	-0.7		S.D. = 1.0	on 102 of 105 obs.			BALM	3.27	115	eP	00	44.91	-2.0
EDM	55.41	47	iPc	43	33.70	-0.5						CNPM	3.31	205	iP	00	47.17	-0.2
DMN	55.45	274	P	43	34.20	-0.9							35 obs. associated					
GKN	55.50	275	P	43	34.50	-0.9	* MAR 27, 1991 15h 38m 13.89± 1.70s											
NEW	56.41	53	iP	43	41.00	-0.5	30.176 S ± 9.0km 72.308 W ±20.1km											
	1.0s	10.50nm			4.8mb		DEPTH = 33.0km (normal)											
SES	58.26	48	eP	43	53.00	-1.4	4.4mb (1 obs.)											
ORV	59.26	64	eP	44	00.40	-1.0	OFF COAST OF CENTRAL CHILE (134)											
FFC	59.71	40	iPc	44	04.20	-0.1												
	0.7s	26.00nm			5.4mb		RTRS	2.47	91 iPc	38	53.00 0.4							
LRM	60.43	53	ePc	44	09.50	-0.1			eS	39	22.30							
CMB	60.90	64	eP	44	12.00	-0.7	ROCH	3.00	159 eP	39	05.00 4.6X							
TNP	62.76	63	iP	44	25.00	-0.3			i	39	43.20							
	0.9s	14.65nm			4.9mb		PEL	3.27	155 iP	39	03.30 -0.7							
BW06	64.00	54	iP	44	33.10	-0.3			i	39	11.00							
RSSD	65.99	50	iP	44	46.80	0.7			i	39	42.40							
	0.9s	46.47nm			5.4mb		RTCB	3.29	114 ePd	39	05.80 1.4							
NB2	66.78	341	P	44	49.20	-1.4			eS	39	43.50							
	0.7s	1.60nm			4.0mb		ZON	3.41	115 eP	39	07.00 0.9							
HYB	66.82	270	iPd	44	50.50	-1.0	RTLL	3.50	110 ePd	39	07.10 -0.3							
	0.8s	26.90nm			5.2mb				eS	39	49.90							
HFS	67.02	339	eP	44	49.70	-2.4	PCH	3.76	157 iPd	39	11.00 0.0							
									i	59	54.70							

MAR 27, 1991 16h 27m 03.35± 0.71s						
12.535 N ± 5.3km 123.475 E ± 8.5km						
DEPTH = 47.0 ± 8.0 km						
4.7mb (5 obs.) 4.4Msz (3 obs.)						
LUZON, PHILIPPINE ISLANDS (249)						
PLP	2.01	133	iPd	27	35.00	-0.4
			iS	27	40.50	
MAP	2.25	167	iPd	27	38.00	-0.9
			iS	28	03.00	
PGP	2.64	292	iPc	27	43.50	-1.0
			iS	28	30.20	
QCP	3.13	312	eP	27	37.00	-14.4X
CGP	4.23	163	eP	28	08.50	1.6
	1.0s	10.00nm				
BAG	4.77	324	eP	28	13.50	-1.2
CVP	5.38	343	eP	28	25.00	1.8
			eS	29	21.00	

PPR 5.40 240 ePd 28 23.00 -0.5
DAV 5.79 159 eP 28 19.00 -10.0X
PIP 6.38 335 ePc 28 39.50 2.3
SSE 18.59 354 eP 31 17.00 -2.0
Z 20s 0.60um
E 14s 0.70um
WHN 19.81 336 eP 31 32.50 -0.3
Z 20s 0.60um
GYA 21.01 314 P 31 49.40 3.9X
Z 16s 0.90um 4.2MszX
N 14s 1.00um
E 14s 0.50um
KMI 23.24 306 Pd 32 09.50 1.8
1.5s 40.00nm 4.7mb
Z 24s 0.80um 4.1MszX
pP 32 16.00 23kmX
XAN 25.18 331 iPc 32 25.60 -0.5
CD2 25.80 318 eP 32 32.00 0.0
DL2 26.31 357 eP 32 35.50 -1.0
Z 15s 0.50um 4.2MszX
BJI 28.14 348 eP 32 52.50 -0.6
1.5s 19.00nm 4.5mb
Z 18s 0.29um 3.9Msz
LZH 29.37 326 eP 33 03.50 -1.0
2.0s 36.00nm 4.7mb
Z 18s 0.92um 4.4Msz
N 20s 1.81um
sP 33 14.50
HHC 30.08 342 eP 33 11.00 0.3
Z 24s 1.10um 4.4MszX
SHL 32.46 298 iP 33 30.70 -1.1
GTA 33.98 326 P 33 44.40 -0.4
1.2s 10.00nm 4.6mb
Z 24s 1.00um 4.5MszX
N 17s 0.70um
LSA 34.49 305 eP 33 50.40 0.7
ASPA 37.40 164 eP 34 12.80 -0.9
0.7s 8.40nm 4.8mb
GUN 38.27 299 P 34 22.10 0.6
PKI 38.58 299 P 34 24.20 0.1
KKN 38.75 299 P 34 25.90 0.6
DMN 38.85 299 P 34 26.70 0.4
GKN 39.35 299 P 34 30.30 0.0
BAL 43.38 189 eP 35 03.00 0.0
HYB 43.59 282 eP 35 09.00 4.0X
WMQ 43.76 322 P 35 05.50 -0.6
Z 20s 0.80um 4.6Msz
MUN 44.80 189 eP 35 15.00 0.5
NWAO 45.60 187 eP 35 21.00 0.3
STK 47.45 159 eP 35 55.30 19.8X
1.0s 2.90nm
INK 83.19 21 eP 39 27.00 1.4
MBC 84.11 12 eP 39 40.00 9.9X
S.D. = 1.1 on 31 of 37 obs.

MAR 27, 1991 16h 46m 29.19± 0.39s
23.275 S ± 4.9km 69.139 W ± 8.5km
DEPTH = 80.6km (2 depth phases)
4.7mb (4 obs.)
NORTHERN CHILE (123)
Felt (IV) at Sierra Gordo and Calama; (III) at Antofagasta, Toconao, Talabre, San Pedro de Atacama and Maria Elena.

ANT 1.25 250 iPc 46 50.80 -0.8
iS 47 06.00
CCH 6.50 26 P 48 10.20 5.7X
CNCB 6.52 10 Pc 48 06.00 1.0
LPB 6.78 8 P 48 11.00 2.6X
1.0s 244.00nm 5.7mb X
RTRS 6.87 182 ePc 48 10.00 0.7
ZOBO 7.03 8 P 48 12.00 -0.1
S 50 00.00
RTLL 8.05 176 iPc 48 24.60 -0.9
RTCB 8.19 178 eP 48 26.90 -0.5
CFA 8.34 175 ePd 48 28.90 -0.6
TCA 8.99 154 ePd 48 39.00 0.5
PEL 9.93 188 eP 48 57.50 6.4X
i 50 59.50
SIV 10.50 48 Pd 48 57.00 -1.9
PPD 16.50 89 eP 50 20.10 3.0X
e 50 24.40
e 50 34.00
VAO 20.39 94 eP 51 01.20 -0.7
e 51 04.10
e 51 07.40
e 51 22.30
e 51 43.80
SOB1 30.43 67 eP 52 36.70 0.4
e 52 40.30
SPA 66.86 180 eP 57 15.00 0.4
0.6s 13.82nm 5.1mb
ANMO 67.87 327 eP 57 21.20 0.0
1.0s 3.00nm 4.2mb
epP 57 41.50 77km
KIC 69.41 73 P 57 32.00 1.1
RSSD 74.30 335 eP 57 58.00 -1.7
1.0s 18.98nm 5.0mb
ipP 58 20.20 84km
LRM 79.22 331 eP 58 48.80 21.7X
SES 82.17 334 eP 59 04.00 21.7X
FFC 82.64 342 eP 59 05.00 20.4X
1.0s 12.00nm
NEW 83.17 330 iP 58 41.00 -6.5X
YKA 92.78 341 eP 59 33.00 -0.2
0.7s 1.20nm 4.4mb
FBA 106.15 334 ePKP 04 46.10 1.2
1.3s 10.38nm
ASPA 128.25 207 iPKPc 05 28.90 0.4
2.3s 4.40nm
WRA 131.32 210 PKP 05 35.00 0.6
0.6s 2.90nm
GBA 146.94 101 PKPc 06 03.80 1.2
0.3s 1.10nm
HYB 149.20 95 ePKP 06 12.00 5.8X
e 06 32.00
GKN 155.91 73 PKP 06 00.00 -15.7X
S.D. = 1.0 on 20 of 30 obs.

MAR 27, 1991 16h 52m 26.13± 0.83s
5.434 S ± 5.7km 151.687 E ± 6.4km
DEPTH = 68.5 ± 9.0 km
4.5mb (5 obs.)
NEW BRITAIN REGION (192)

RAB 1.33 21 iPd- 52 49.50 0.4
PMG 5.98 228 iPc 53 53.00 -1.1
VSG 8.82 116 eP 54 34.00 0.7
SVO 8.87 115 P 54 34.00 0.0
HNR 9.10 116 eP 54 37.00 -0.2
eS 56 23.00
CTA 15.49 199 iPc 56 06.60 4.6X
1.3s 59.62nm 4.6mb
iS 59 12.00
QIS 19.07 217 iPc 56 45.40 -0.7
0.5s 22.00nm 4.7mb
GUA 20.01 340 eP 56 33.80 -22.3X
1.0s 208.00nm
PJG 20.07 340 eP 56 33.60 -23.1X
RMO 21.12 187 eP 57 07.00 -0.4
DZM 21.85 141 iPc 57 14.60 -0.1
BRS 21.86 177 iPd 57 15.00 0.3
OLP 22.20 198 iPc 57 18.60 0.5
KNA 24.72 244 eP 57 43.00 0.4
ASPA 24.94 222 iPc 57 44.60 -0.1
0.6s 115.20nm 5.5mb
COO 25.01 180 eP 57 46.00 0.7
STK 27.96 199 eP 58 31.50 19.3X
0.8s 5.70nm
WARB 31.60 227 iPc 59 04.20 19.5X
XAN 56.32 317 eP 02 01.10 -1.4
SHL 65.68 301 eP 03 06.50 0.5
GUN 71.50 302 P 03 43.00 0.6
KKN 71.98 301 P 03 45.60 0.6
GKN 72.58 301 P 03 48.50 0.0
WMQ 75.46 318 P 04 05.40 0.6
HYB 75.65 289 eP 04 07.00 0.8
GBA 76.07 285 P 04 10.00 1.4
1.2s 5.30nm 4.3mb
INK 89.44 21 eP 05 14.00 -2.4
YKA 96.50 28 eP 05 48.80 -0.1
0.8s 0.40nm 4.0mb
APO 116.50 338 ePKP 11 02.70 -0.8
0.6s 1.80nm
BCAO 133.32 271 ePKPd 11 39.00 1.9X
0.5s 3.00nm
ic 11 50.90
S.D. = 0.9 on 24 of 30 obs.

MAR 27, 1991 17h 24m 50.16± 0.28s
45.537 N ± 2.9km 5.995 E ± 2.6km
DEPTH = 8.5 ± 2.4 km
FRANCE (538)

ML 3.0 (LDG), 2.6 (GEN). MD 3.0 (STR).

GRN 0.34 211 Pg 24 56.84 -0.4
Sg 25 01.41
RSL 0.47 71 Pg 24 59.72 0.1
Sg 25 05.62
LPL 0.52 92 Pg 25 00.70 0.0
Sg 25 06.90
LPG 0.53 94 Pg 25 00.80 -0.2
Sg 25 07.20
BNI 0.68 135 Pd 25 02.70 -1.2
eSg 25 10.00
LSD 0.82 95 P 25 05.57 -0.8
S 25 14.87
RRL 0.83 138 P 25 05.73 -0.8
S 25 15.38
EMS 0.84 51 ePd 25 06.80 0.1
RSP 0.97 113 P 25 08.33 -0.5
S 25 19.10
DIX 1.13 61 ePc 25 12.40 0.8
BHB 1.13 127 P 25 11.02 -0.5
S 25 24.10
SURF 1.20 151 Pg 25 11.86 -1.0
PZZ 1.30 142 P 25 14.49 0.1
S 25 28.59
DOI 1.36 139 P 25 15.20 -0.2
eSg 25 32.90
ORX 1.40 85 P 25 17.33 1.3
S 25 33.20
MMK 1.47 69 ePc 25 17.90 0.8
STV 1.60 143 P 25 18.97 0.1
S 25 36.28
ENR 1.66 142 P 25 19.87 0.2
PLDF 1.72 285 Pg 25 23.87 3.4X
Sg 25 46.44
ROB 1.82 132 P 25 22.82 0.8
SMF 1.86 307 Pn 25 21.80 -0.8
Pg 25 26.80
Sg 25 51.00
SBF 1.96 148 Pg 25 28.00 3.9X
Sg 25 52.00
LBF 2.01 317 Pn 25 25.60 0.8
Sg 25 55.60
FRF 2.03 167 Pn 25 25.40 0.4
Sg 25 54.00
FIN 2.06 129 P 25 24.49 -0.9
PCP 2.06 118 P 25 27.05 1.5
AGO 2.07 2B5 Pg 25 30.51 4.9X
Sg 25 56.37
PYM 2.11 277 Pg 25 30.73 4.6X
IMI 2.11 140 P 25 27.56 1.3
AVF 2.22 305 Pn 25 27.40 -0.4
Pg 25 33.60
Sg 26 01.60
LOR 2.28 320 Pn 25 28.70 0.1
Pg 25 34.60
Sg 26 03.00
SSF 2.30 312 Pn 25 29.80 0.9
Pg 25 35.20
Sg 26 04.40
BSF 2.36 13 Pn 25 28.80 -1.0
Pg 25 35.00
Sg 26 04.60
BGF 2.42 296 Pn 25 30.70 0.1
Pg 25 37.40
Sg 26 08.00
HAU 2.48 5 Pn 25 30.70 -0.7
Sg 26 08.60
MAF 2.49 287 Pn 25 32.20 0.6
Pg 25 38.60
Sg 26 09.10
TCF 2.75 287 Pn 25 35.00 -0.3
Sg 26 1B.20
CAF 2.84 259 Pn 25 36.40 -0.3
CDF 3.01 16 Pn 25 37.20 -1.8
S.D. = 0.8 on 35 of 39 obs.

? MAR 27, 1991 18h 20m 02.14± 0.93s
38.516 N ± 7.1km 118.390 W ± 9.1km
DEPTH = 5.0km (geophysicist)
CALIFORNIA-NEVADA BORDER REGION (40)
ML 2.6 (GS).

BONR 0.56 173 eP 20 13.50 0.0
KVN 0.58 23 iPd 20 13.B0 0.0
TNP 1.02 115 eP 20 22.00 0.0

27d 18h

CMB 1.64 254 eP 20 31.80 0.0
S.D. = 0.0 on 4 of 4 obs.

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* MAR 27, 1991 18h 30m 58.84± 2.36s
15.755 N ±19.2km 95.705 E ±17.3km
DEPTH = 33.0km (normol)
4.3mb (2 obs.)
SOUTH BURMA (298)

KHT 2.95 109 iPn 31 43.70 -0.8
iPg 31 57.00
iSg 32 37.20
BDT 3.49 64 ePn 31 51.00 -1.2
ePg 32 01.00
eSg 32 49.00
NST 4.27 91 eP 32 05.00 1.9
e 33 19.50
CHG 4.34 45 ePn 32 04.50 0.3
ePg 33 20.00
CHTO 4.34 45 iPn 32 04.50 0.3
iPg 32 20.00
PCT 5.61 100 eP 32 38.00 15.8X
eSg 33 46.00
LOE 6.01 73 eP 32 27.00 -0.8
SHL 10.40 341 eP 33 28.50 -0.4
LZH 21.51 18 eP 35 48.00 0.7
2.0s 21.00nm 4.2mb
Z 15s 0.48um 4.0MszX
N 14s 0.53um
XAN 21.76 31 P 35 53.50 3.9X
GTA 23.84 8 eP 36 19.00 8.9X
WRA 51.97 132 P 40 14.00 6.7X
0.4s 1.80nm 4.4mb
S.D. = 1.2 on 8 of 12 obs.

& MAR 27, 1991 20h 37m 01.80s
63.064 N 150.846 W
DEPTH = 123.3km
CENTRAL ALASKA (1)
<AEIC>.

TRF 0.46 33 iP 37 20.01 -0.4
eS 37 34.23
HUR 0.56 98 eP 37 20.19 -0.6
eS 37 34.95
CUT 0.71 158 eP 37 21.71 -0.1
RND 0.97 68 iP 37 23.59 -0.6
eS 37 41.05
MCK 1.09 51 iP 37 24.87 -0.5
SKT 1.13 197 iP 37 25.31 -0.5
eS 37 43.55
BWN 1.27 28 iP 37 26.91 -0.3
PWA 1.49 162 eP 37 29.67 0.0
GHO 1.58 145 iP 37 30.62 -0.2
eS 37 53.59
SUA 1.61 178 eP 37 31.41 0.2
eS 37 53.95
NCG 1.78 201 eP 37 32.66 -0.6
WRH 1.87 40 eP 37 33.10 -1.1
PMS 1.92 161 eP 37 34.53 -0.4
SPU 1.97 197 eP 37 34.94 -0.6
KNK 2.00 145 eP 37 35.12 -0.8
CKL 2.00 201 eP 37 35.39 -0.6
SCM 2.05 125 eP 37 35.83 -0.8
CCB 2.08 39 eP 37 35.58 -1.3
HDA 2.19 50 eP 37 37.37 -1.0
MDM 2.22 30 iP 37 37.32 -1.4
FBA 2.28 35 eP 37 38.14 -1.3
TOA 2.37 112 iP 37 40.31 -0.3
PAX 2.45 90 eP 37 41.23 -0.5
GLM 2.46 37 eP 37 40.53 -1.3
SDG 2.50 100 eP 37 41.83 -0.4
SLKM 2.58 173 eP 37 42.64 -0.7
RDT 2.61 197 eP 37 43.61 -0.1
RDN 2.72 200 eP 37 45.04 -0.2
REF 2.73 200 eP 37 45.99 0.5
GLI 2.82 139 eP 37 45.04 -1.4
VLZ 2.87 130 eP 37 45.38 -1.8
KNIM 3.10 150 eP 37 48.18 -2.0
CNPM 3.56 183 eP 37 55.26 -1.0
GLB 3.67 113 eP 37 56.53 -1.3
34 obs. associoted

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* MAR 27, 1991 20h 44m 18.25± 1.23s
40.61B N ±11.7km 29.036 E ± 9.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

YLV 0.26 101 iPg 44 24.10 0.3
iSg 44 28.60
IZI 0.44 130 iPg 44 27.10 -0.1
iSg 44 33.30
HRT 0.52 67 iPg 44 28.80 0.0
eSg 44 36.30
CTT 0.70 319 iPg 44 32.10 0.0
iSg 44 41.10
EYL 0.86 93 ePg 44 34.60 -0.2
S.D. = 0.3 on 5 of 5 obs.

MAR 27, 1991 20h 59m 18.89± 0.62s
39.806 N ± 4.8km 22.709 E ± 5.8km
DEPTH = 5.0km (geophysicist)
GREECE (364)
MD 2.4 (THE).

LIT 0.34 330 ePc 59 26.04 0.3
eS 59 32.76
PAIG 0.76 80 iPc 59 34.36 0.3
eS 59 45.32
AGG 0.84 201 ePd 59 35.44 -0.1
eS 59 48.60
THE 0.85 13 ePc 59 35.52 -0.2
iS 59 47.84
SOH 1.13 26 iPd 59 40.72 0.2
eS 59 56.32
GRG 1.17 349 ePd 59 41.32 0.0
eS 59 58.76
KNT 1.36 6 ePd 59 44.08 -0.4
eS 00 03.08
FNA 1.41 314 ePc 59 45.56 0.2
eS 00 04.64
SRS 1.47 27 iPc 59 46.00 -0.1
iS 00 05.12
VAY 1.52 356 ePn 59 46.40 -0.3
OHR 1.96 312 ePn 59 55.70 2.6X
S.D. = 0.3 on 10 of 11 obs.

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* MAR 27, 1991 21h 40m 10.62± 0.99s
26.168 N ±17.7km 97.175 E ±10.0km
DEPTH = 33.0km (normol)
BURMA (296)

SHL 4.80 264 eP 41 32.00 9.3X
KMI 5.13 100 ePg 41 27.40 0.0
Sg 42 27.00
CHG 7.50 167 eP 42 00.50 0.0
GUN 10.22 282 P 42 39.30 0.8
PKI 10.60 280 P 42 46.40 2.8X
KKN 10.73 281 P 42 45.30 -0.1
GKN 11.32 282 P 42 52.50 -0.8
S.D. = 0.8 on 5 of 7 obs.

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* MAR 27, 1991 22h 08m 04.87± 0.70s
26.318 N ±10.3km 97.226 E ± 9.8km
DEPTH = 33.0km (normal)
4.0mb (5 obs.)
BURMA (296)

SHL 4.87 262 eP 09 17.50 -0.4
eS 11 03.50
KMI 5.11 102 Pgc 09 25.00 3.6X
Sg 10 25.00
LSA 6.34 303 ePn 09 47.90 9.0X
CD2 7.34 50 eP 09 56.40 3.9X
CHTO 7.63 168 iP 09 58.50 1.9
eS 11 15.00
GYA 8.47 87 P 10 07.20 -1.1
BDT 9.18 169 eP 10 04.00 -14.0X
0.8s 36.30nm
LOE 9.80 154 eP 10 40.00 13.4X
LZH 11.26 29 eP 11 00.00 13.3X
2.0s 25.00nm
Z 10s 0.32um
E 10s 0.95um
XAN 12.70 50 eP 11 05.00 -1.0
E 10s 0.70um
NNT 13.86 170 eP 11 21.00 -0.3
TIY 17.16 45 eP 12 10.90 7.1X
Z 13s 0.48um
N 12s 0.45um
WMQ 19.10 339 P 12 36.00 8.4X
HYB 19.44 247 eP 12 26.00 -5.7X
BJI 20.89 44 eP 12 47.00 0.4
GBA 22.45 240 P 13 00.00 -2.5
0.3s 0.60nm 3.5mb

WRA 58.41 138 P 17 50.00 -9.8X
0.6s 1.00nm 4.1mb
APO 64.21 327 eP 18 40.00 1.5
0.9s 6.30nm 4.7mb
NB2 65.44 328 P 18 47.40 0.9
0.9s 2.10nm 4.2mb
YKA 87.91 14 eP 20 52.70 0.5
0.8s 0.40nm 3.8mb
S.D. = 1.5 on 10 of 20 obs.

MAR 27, 1991 22h 17m 55.03± 0.39s
40.443 N ± 8.6km 45.443 E ± 6.1km
DEPTH = 33.0km (normol)
4.3mb (8 obs.)
EASTERN CAUCASUS (337)

TAB 2.47 164 eP 18 33.00 -1.0
KER 6.22 167 eP 19 28.00 0.9
TEH 6.63 133 eP 19 45.00 12.1X
VRI 14.69 298 ePc 21 24.00 1.8
MLR 15.13 296 eP 21 30.00 1.9
OHR 18.67 280 e(P) 22 11.00 -1.5
SPC 19.83 305 eP 22 23.90 -2.0
KRA 20.28 307 eP 22 32.00 1.6
ZST 21.62 300 eP 22 47.50 3.4X
KSP 22.74 307 eP 22 55.00 -0.2
NUR 23.86 334 iP 23 05.80 -0.1
e 23 11.00
KBA 24.00 297 eP 23 07.00 -0.6
1.0s 8.00nm 4.2mb
i 23 14.80
KHC 24.08 302 P 23 08.80 0.5
BRG 24.19 306 e(P) 23 10.60 1.4
KAF 24.59 338 eP 23 12.20 -0.8
0.7s 5.40nm 4.2mb
CLL 24.86 307 iPc 23 15.10 -0.6
1.2s 20.00nm 4.6mb
APO 27.95 327 eP 23 41.00 -3.1X
0.9s 8.20nm 4.4mb
NDI 28.52 104 iP 23 50.50 0.9
SOD 28.91 345 eP 23 52.00 -0.7
e 23 58.00
NB2 29.36 326 P 23 54.20 -2.6
0.8s 1.50nm 3.8mb
KEV 30.93 348 eP 24 18.00 7.4X
WMQ 31.27 70 P 24 15.00 1.1
Z 10s 0.20um 4.1MszX
GKN 34.43 99 P 24 41.40 -0.3
DMN 34.99 99 P 24 46.60 0.0
KKN 35.03 99 P 24 46.70 -0.2
PKI 35.24 99 P 24 48.70 -0.1
GUN 35.42 98 P 24 50.40 0.0
1.0s 24.00nm 5.1mb
HYB 36.62 119 eP 24 59.50 -0.7
GTA 41.15 73 eP 25 38.40 0.6
1.0s 10.00nm 4.5mb
HHC 49.05 67 eP 26 42.30 1.4
XAN 49.98 76 eP 26 48.40 0.4
CHG 50.42 99 eP 26 51.00 -0.5
TIY 50.94 70 Pc 26 59.40 4.1X
CN2 57.21 58 eP 27 39.60 -1.6
YKA 76.16 351 eP 29 41.90 0.9
1.2s 1.70nm 3.9mb
STK 114.15 112 ePKP 36 42.00 9.4X
1.0s 4.90nm
S.D. = 1.2 on 30 of 36 obs.

MAR 27, 1991 23h 00m 47.78± 0.41s
50.207 N ± 3.5km 5.834 E ± 5.0km
DEPTH = 5.0km (geophysicist)
BELGIUM (541)
ML 3.0 (LDG), 2.8 (BNS).

MEM 0.42 15 iPc 00 55.64 -0.5
ENN 0.56 6 iPgc 00 58.60 -0.5
0.4s 46.00nm
iSg 01 05.00
WLF 0.58 159 iPc 01 01.80 2.4X
iS 01 09.72
DOU 0.80 263 iPd 01 05.80 1.9X
iS 01 17.00
SNF 1.04 288 iPd 01 08.81 1.0
iS 01 23.07
UCC 1.11 303 iP 01 10.20 1.1
iS 01 25.40
BNS 1.14 48 ePgc 01 08.00 -1.6
0.3s 0.20nm

		iSg	01	21.50	
KOE	1.24	79 iPnd	02	10.30	59.1X
		iPgc	02	10.70	
WTS	1.89	19 ePn	01	22.50	1.5
	0.5s	6.00nm			
CDF	2.03	152 Pn	01	24.40	1.3
		Pg	01	29.20	
		Sg	01	53.50	
HAU	2.23	171 Pn	01	27.20	1.2
		Pg	01	31.60	
		Sg	01	59.20	
BSF	2.46	165 Pn	01	29.80	0.5
		Pg	01	36.00	
		Sn	01	57.00	
		Sg	02	07.40	
LOR	3.22	205 Pn	01	40.20	0.2
		Pg	01	50.40	
		Sg	02	30.90	
LBF	3.45	202 Pn	01	43.00	-0.3
		Sn	02	21.60	
		Sg	02	38.40	
SSF	3.51	207 Pn	01	43.60	-0.4
		Sg	02	40.00	
AVF	3.80	207 Pn	01	48.30	0.1
		Sg	02	49.00	
SMF	3.80	201 Pn	01	48.40	0.1
		Pg	02	00.60	
		Sg	02	49.30	
BGF	4.16	210 Pn	01	52.90	-0.4
		Pg	02	08.50	
		Sn	02	38.40	
		Sg	03	00.60	
LDF	4.21	250 Pn	01	54.70	0.7
FLN	4.36	253 Pn	01	56.20	0.0
		Pg	02	12.40	
MAF	4.55	210 Pn	01	58.00	-0.8
TCF	4.61	213 Pn	01	58.90	-0.8
		Pg	02	16.00	
GRR	4.74	250 Pn	02	01.20	-0.4
		Sn	02	52.00	
LPF	5.01	247 Pn	02	04.80	-0.6
MFF	5.37	230 Pn	02	09.00	-1.5
S.D. = 0.9		on 22 of 25 obs.			

MAR 27, 1991 23h 06m 21.56± 0.45s
40.835 N ± 4.7km 28.785 E ± 3.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ISK	0.31	42 ePg	06	28.00	0.0
		iSg	06	32.50	
CTT	0.41	319 iPg	06	30.00	0.0
GBZT	0.50	95 ePg	06	32.20	0.4
		iSg	06	38.80	
YLV	0.52	121 ePg	06	31.00	-1.1
HRT	0.67	91 iPg	06	34.50	-0.4
		eSg	06	43.50	
KCT	0.67	209 ePg	06	34.50	-0.4
		eSg	06	44.50	
IZI	0.72	133 ePg	06	36.50	0.7
		eSg	06	46.50	
BNT	0.81	234 ePg	06	38.00	0.7
EYL	1.08	104 ePn	06	42.50	0.6
KGT	1.19	252 ePn	06	43.50	-0.3
DMK	1.25	322 iPn	06	44.70	-0.1
S.D. = 0.6		on 11 of 11 obs.			

MAR 27, 1991 23h 39m 45.38± 0.74s
37.652 N ±10.0km 118.912 W ± 6.8km
DEPTH = 5.0km (geophysicist)
CALIFORNIA-NEVADA BORDER REGION (40)
ML 2.3 (GS).

BONR	0.57	58 eP	39	56.30	-0.5
CMB	1.23	289 eP	40	08.00	-0.7
TNP	1.41	72 eP	40	11.90	0.0
KVN	1.54	24 eP	40	14.40	0.7
ARN	2.11	263 eP	40	22.30	0.5
BCH	2.64	201 eP	40	29.40	0.0
S.D. = 0.7		on 6 of 6 obs.			

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* MAR 28, 1991 00h 43m 23.46± 1.43s
30.854 S ±14.5km 67.469 W ±17.8km
DEPTH = 10.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.98	241 ePd	43	41.90	-0.2
CFA	1.00	221 iPd	43	43.20	0.8
		S	43	53.00	
ZON	1.24	236 iPc	43	45.80	-0.8
		eS	44	00.80	
RTCB	1.30	241 iPc	43	47.90	0.3
RTRS	1.85	291 iPd	43	55.50	0.1
		eS	44	13.80	
TCA	2.52	102 iPd	44	11.30	6.2X
JACH	3.22	235 iPd	44	22.40	7.2X
		i	45	02.40	
PEL	3.56	229 iPc	44	42.70	22.8X
		i(S)	45	05.50	
PCH	3.78	222 eP	44	26.50	3.4X
TACH	4.05	226 iPc	44	29.00	2.1X
		i	45	28.00	
SLA	6.35	16 e(P)	45	01.00	1.5
SIV	15.91	23 P	47	07.60	-1.5
S.D. = 1.2		on 7 of 12 obs.			

& MAR 28, 1991 00h 54m 34.15s
47.680 N 120.327 W
DEPTH = 0.6km
WASHINGTON (29)
<SEA>. CL 3.3 (SEA). Felt (IV) at Ardenvoir and (III) at Entiot.

ETW	0.08	182 Pc	54	35.45	-0.3
CBSW	0.23	57 Pd	54	38.39	-0.4
WTV	0.25	86 Pd	54	38.90	-0.3
		S	54	42.62	
NLW	0.40	359 Pd	54	41.43	-0.7
DHW2	0.48	51 Pd	54	42.96	-0.8
TBM	0.54	200 Pd	54	44.23	-0.8
EPH	0.59	123 P	54	44.97	-1.0
		S	54	53.58	
SAW	0.63	88 Pc	54	45.57	-1.1
TWW	0.65	214 Pd	54	46.57	-0.7
VTG	0.76	162 Pd	54	47.87	-1.4
EBG	0.79	192 Pd	54	48.91	-1.0
BVW	0.92	161 P	54	50.92	-1.6
RC1	0.96	140 Pd	54	51.71	-1.5
HTW	0.98	278 P	54	52.30	-1.4
NAC	1.01	200 Pd	54	52.98	-1.1
RMW	1.03	258 P	54	52.64	-1.8
WAH2	1.06	150 Pd	54	53.65	-1.3
CRF	1.07	143 P	54	53.73	-1.4
WRD	1.07	131 P	54	53.84	-1.4
GSM	1.10	245 P	54	54.02	-1.8
MXC	1.10	179 P	54	54.50	-1.3
RPW	1.11	314 P	54	54.01	-1.8
OD2	1.13	104 P	54	54.15	-2.1
MDW	1.13	160 P	54	55.14	-1.1
LOCW	1.14	147 P	54	54.78	-1.6
BLH	1.16	278 P	54	56.92	0.2
YAKW	1.17	187 Pd	54	55.89	-1.0
FMW	1.18	231 Pd	54	55.07	-2.2
JCW	1.19	296 P	54	55.38	-1.9
OT2	1.21	142 P	54	56.37	-1.3
BRVW	1.22	169 Pd	54	56.43	-1.3
GBL	1.23	151 Pd	54	56.76	-1.2
WPW	1.29	221 Pd	54	56.96	-2.0
MJ2	1.30	149 P	54	57.91	-1.2
SPW	1.30	265 P	54	59.29	0.2
RVC	1.34	237 Pd	54	57.91	-1.9
REMR	1.34	231 P	54	58.15	-1.8
LON	1.37	228 P	54	58.44	-2.0
RSW	1.38	158 P	54	59.39	-1.2
GLK	1.42	219 P	54	59.56	-1.6
WIW	1.44	150 P	55	00.26	-1.1
DPW	1.45	82 Pc	54	59.36	-2.2
ET3	1.46	139 P	55	00.24	-1.4
MBW	1.53	317 P	55	01.67	-1.2
PRW	1.53	163 P	55	01.75	-1.0
PGW	1.54	276 P	55	02.59	-0.3
GMW	1.67	266 P	55	04.24	-0.5
PNT	1.70	16 P	55	04.10	-1.1
GL2	1.75	191 P	55	04.83	-1.2
ASR	1.76	210 P	55	05.59	-0.5
HDW	1.84	270 P	55	06.36	-1.0
SOSW	1.90	221 P	55	07.80	-0.4
WG3	1.94	148 P	55	07.91	-0.7
ESD	1.94	221 P	55	08.74	0.0
MCW	1.95	302 eP	55	07.80	-1.1
SHW	1.98	222 eP	55	08.00	-1.4
CPW	2.04	251 P	55	09.95	-0.2
VGB	2.19	188 eP	55	11.50	-0.8
NEW	2.23	74 eP	55	10.00	-2.9
JBO	2.24	171 P	55	12.89	-0.2
BMW	2.32	240 eP	55	12.00	-2.2
61 obs. ossocioted					

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* MAR 28, 1991 01h 18m 42.59± 1.42s
36.513 N ±11.7km 121.178 W ±19.5km
DEPTH = 5.0km (geophysicist)
CENTRAL CALIFORNIA (39)
MD 2.8 (GM). Felt (V) at Solinos and (IV) at Pocific Grove. Also felt at Greenfield.

ARN	0.88	341 eP	19	00.20	0.2
PKEM	0.97	117 eP	19	01.50	-0.1
BCH	1.60	146 eP	19	11.70	0.1
CMB	1.65	22 eP	19	12.50	0.2
BONR	2.71	57 e(P)	19	29.00	1.1X
ORV	3.05	355 eP	19	32.00	-0.4
S.D. = 0.3		on 5 of 6 obs.			

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* MAR 28, 1991 02h 04m 26.75± 0.68s
60.833 S ±12.2km 26.542 W ±12.7km
DEPTH = 33.0km (normal)
5.0mb (6 obs.)
SOUTH SANDWICH ISLANDS REGION (153)

SPA	29.33	180 iPd	10	28.20	-0.1
	0.9s	38.64nm			5.1mb
		i	11	07.80	
PEL	39.71	294 iPc	11	57.70	0.3
	1.0s	64.00nm			5.3mb
PPD	42.45	325 (P)	12	21.00	1.1
PDCR	49.09	344 (P)	13	12.00	-0.7
SLR	50.87	72 eP	13	21.20	-5.2X
SIV	51.18	316 P	13	26.80	-1.9
CCH	51.74	309 P	13	34.00	0.8
CNCB	52.96	307 P	13	43.00	0.3
LPB	53.26	307 Pd	13	44.20	-0.5
	0.9s	16.81nm			5.0mb
ZOBO	53.51	308 P	13	47.00	0.3
Z	24s	0.19um			4.1MszX
		LR	27	08.00	
LIC	68.95	23 P	15	30.42	0.0
	0.9s	8.00nm			4.8mb
KIC	69.14	23 P	15	31.54	0.0
	1.0s	10.00nm			4.9mb
TIC	69.36	23 P	15	33.06	0.1
LKO	72.08	22 P	15	49.64	0.2
	0.9s	15.00nm			5.0mb
TOO	81.73	174 eP	16	58.50	15.6X
NB2	124.96	21 PKP	23	24.60	1.2X
	0.8s	1.10nm			
FRB	128.24	338 ePKP	23	39.00	9.4X
SZP	130.79	137 ePKP	23	45.00	9.2X
PIP	131.56	136 iPKPd	24	02.00	24.8X
YKA	139.86	314 ePKP	23	48.00	-3.5X
	0.9s	1.40nm			
MBC	148.45	333 ePKP	24	11.50	5.8X
	1.0s	13.00nm			
INK	149.60	315 ePKP	24	13.00	5.3X
S.D. = 0.8		on 13 of 22 obs.			

% MAR 28, 1991 02h 17m 46.47± 0.96s
39.294 N ± 7.4km 29.109 E ±10.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

DST	0.49	310 iPg	17	56.60	0.3
		iSg	18	04.10	
KHL	1.02	161 ePg	18	05.70	-0.2
		eSg	18	18.70	
IZI	1.08	15 ePn	18	07.40	0.6
KCT	1.12	329 ePn	18	07.40	0.0
YLV	1.29	9 iPn	18	08.90	-1.5
EYL	1.50	32 ePn	18	14.40	0.8
S.D. = 1.0		on 6 of 6 obs.			

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* MAR 28, 1991 02h 29m 50.29± 2.85s
38.344 N ±23.5km 21.983 E ±19.1km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 3.1 (ATH).

AGG	0.73	22 iP	30	04.50	-0.2
VLS	1.11	262 ePb	30	11.00	-0.1
ATH	1.42	105 ePn	30	25.50	9.4X

28d 02h

KZN 1.97 355 ePb 30 23.00 -1.1
FNA 2.48 349 iPc 30 31.20 -0.2
SOH 2.69 23 eP 30 34.00 -0.5
KNT 2.90 14 eP 30 46.00 8.6X
OHR 2.91 342 ePn 30 38.00 0.5
VAY 3.01 8 ePn 30 40.00 1.2
SKO 3.65 354 eP 30 48.00 0.0
S.D. = 0.8 on 8 of 10 obs.

? MAR 28, 1991 02h 48m 47.32± 4.91s
16.079 N ±21.3km 61.026 W ±31.1km
DEPTH = 10.0km (geophysicist)
LEEWARD ISLANDS (92)
ML 2.4 (FDF).

DEG 0.23 352 eP 48 52.38 0.0
S 49 00.70
SFG 0.24 317 eP 48 52.30 -0.1
SEG 0.56 305 eP 48 58.74 0.0
S 49 10.00
DOG 0.57 265 eP 48 59.20 0.3
S 49 11.00
PAG 0.63 266 eP 48 59.70 -0.3
S 49 12.20
BBL 0.70 218 eP 49 07.80 6.6X
S.D. = 0.3 on 5 of 6 obs.

MAR 28, 1991 02h 49m 43.08± 0.30s
36.083 N ± 4.9km 27.836 E ± 3.7km
DEPTH = 97.0 ± 5.4 km
3.8mb (10 obs.)
DODECANESE ISLANDS (369)
MD 3.7 (ATH).

ARG 0.27 60 iPgd 49 57.00 -0.4
CIN 1.53 7 iPc 50 10.00 0.1
ELL 1.80 68 iPn 50 14.80 1.3
NPS 1.99 246 ePb 50 17.20 1.3
eSb 50 39.50
BCK 2.60 57 iPn 50 26.10 1.9
KHL 2.61 31 ePn 50 23.20 -1.1
PRK 3.39 339 ePn 50 43.00 8.1X
DST 3.57 10 ePn 50 36.00 -1.4
PPCY 3.87 107 e(P) 50 42.00 0.5
VLI 4.00 281 ePn 50 44.30 1.0
KCT 4.18 5 ePn 50 38.00 -7.8X
CSS 4.62 102 eP 50 52.30 0.5
ADI 6.79 114 eP 51 21.00 -0.8
KOT 6.99 150 ePn 51 24.00 -0.6
eSn 52 34.00
ZNT 7.09 121 eP 51 25.00 -0.9
eS 52 41.00
SHMJ 7.36 115 P 51 29.10 -0.5
JVI 7.49 121 eP 51 31.00 -0.4
MKT 7.97 128 eP 51 37.00 -1.0
eS 53 03.00
MDSJ 8.29 120 P 51 44.20 1.8
PRNI 8.29 132 eP 51 42.00 -0.3
LCI 8.86 302 P 51 48.60 -1.5
HITJ 9.23 131 P 51 47.70 -7.5X
BRT 9.61 303 P 52 00.30 0.0
eSn 53 35.40
TDS 9.77 295 P 52 03.00 0.6
ORI 9.82 297 P 52 02.30 -0.8
MEU 10.43 279 P 52 10.40 -1.0
SGO 10.81 298 P 52 16.60 0.3
KBA 15.41 320 iPc 53 21.10 4.8X
0.5s 2.70nm 3.7mb
i 53 23.60
SBF 17.43 303 eP 53 40.20 -1.2
0.6s 7.20nm 4.1mb
LPG 18.48 307 eP 53 53.70 -0.7
0.4s 2.60nm 3.9mb
LPL 18.50 307 eP 53 54.00 -0.6
0.5s 2.90nm 3.8mb
BSF 19.49 314 eP 54 05.20 0.2
CDF 19.51 316 eP 54 05.30 0.2
HAU 19.84 314 eP 54 08.70 0.3
SMF 20.79 308 eP 54 18.00 -0.2
0.5s 2.55nm 3.8mb
LBF 20.84 309 eP 54 18.90 0.2
0.5s 2.20nm 3.7mb
LOR 21.02 310 eP 54 21.00 0.5
AVF 21.16 308 eP 54 22.30 0.5
0.7s 3.85nm 3.8mb
SSF 21.16 309 eP 54 22.20 0.3
0.7s 4.40nm 3.9mb

BGF 21.40 307 eP 54 24.20 -0.1
0.6s 3.60nm 3.9mb
MFF 23.37 305 eP 54 43.80 0.3
LDF 24.00 310 eP 54 50.00 0.4
FLN 24.29 310 eP 54 52.80 0.5
LPF 24.39 308 eP 54 53.70 0.4
GRR 24.39 309 eP 54 53.80 0.5
0.7s 11.00nm 4.4mb
S.D. = 0.8 on 41 of 45 obs.

* MAR 28, 1991 02h 50m 26.38± 0.98s
31.473 S ±19.8km 67.878 W ± 6.5km
DEPTH = 10.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

CFA 0.34 247 iPc 50 33.10 -0.2
(S) 51 33.00
RTLL 0.53 286 iPc 50 36.80 -0.2
ZON 0.69 264 eP 50 40.30 0.3
eS 50 49.30
RTCB 0.79 269 eP 50 42.00 0.2
RTRS 1.88 313 iPc 51 01.80 3.0X
eS 51 28.00
JACH 2.60 242 eP 51 14.70 5.4X
i 51 51.00
TCA 2.81 88 iPc 51 12.30 0.0
(S) 51 47.30
PEL 2.90 234 ePd 51 17.20 3.7X
i 51 19.10
i(S) 51 55.50
TACH 3.38 229 eP 51 23.00 2.8X
i 52 09.50
S.D. = 0.3 on 5 of 9 obs.

* MAR 28, 1991 03h 17m 22.41± 0.58s
60.699 S ±12.4km 26.174 W ±13.0km
DEPTH = 33.0km (normol)
5.0mb (8 obs.)
SOUTH SANDWICH ISLANDS REGION (153)

SPA 29.47 180 iPc 23 25.00 -0.1
1.0s 35.00nm 5.1mb
i 24 03.80
MAW 36.16 140 eP 24 22.20 -0.7
PEL 39.82 293 iPc 24 55.20 1.2
0.9s 134.45nm 5.7mb
VAO 40.36 330 eP 24 55.90 -2.6
PPD 42.45 324 eP 25 15.80 0.2
e 25 25.70
WIN 48.45 58 eP 25 50.00 -13.6X
PDCR 49.02 343 eP 26 05.50 -2.2
SLR 50.66 72 eP 26 20.50 0.1
SIV 51.22 315 P 26 23.70 -0.9
CCH 51.79 309 P 26 30.30 1.0
SOB1 52.55 342 eP 26 33.90 -0.7
CNCB 53.03 307 P 26 40.20 1.4
i 26 42.00
LPB 53.33 307 ePc 26 42.50 1.7
1.0s 36.00nm 5.3mb
Z 24s 0.39um 4.4MszX
LR 43 00.00
ZOBO 53.57 307 P 26 41.00 -1.8
1.0s 13.00nm 4.9mb
LR 43 16.00
ARE 54.75 303 eP 26 52.00 0.8
LIC 68.76 23 P 28 25.82 1.0
0.6s 5.50nm 4.8mb
KIC 68.94 23 P 28 26.90 0.9
0.8s 11.00nm 5.0mb
TIC 69.17 23 P 28 28.22 0.8
0.8s 14.50nm 5.1mb
LKO 71.89 21 P 28 44.96 1.0
0.8s 13.50nm 5.0mb
ASPA 94.39 162 eP 30 39.80 -0.1
PMG 109.92 173 ePKP 35 38.00 -13.6X
GKN 124.14 93 PKP 36 00.00 -18.7X
APO 124.81 23 ePKP 36 21.30 2.6X
0.7s 1.90nm
FRB 128.18 338 ePKP 36 29.00 3.9X
YKA 139.89 314 ePKP 36 46.50 -0.7
0.7s 2.60nm
MBC 148.42 333 ePKP 37 06.50 5.2X
1.0s 20.00nm
INK 149.63 315 ePKP 37 09.00 5.6X
0.8s 31.00nm
pP 37 21.00
S.D. = 1.3 on 20 of 27 obs.

? MAR 28, 1991 03h 38m 56.58± 1.92s
38.490 N ±16.2km 14.217 E ±14.1km
DEPTH = 10.0km (geophysicist)
SICILY (398)

GIB 0.52 197 P 39 07.30 0.1
eSg 39 14.30
MNO 0.67 146 P 39 10.80 0.7
eSg 39 18.70
USI 0.84 285 P 39 12.90 0.1
eSg 39 25.80
MEU 1.50 158 P 39 22.70 -0.9
eSn 39 42.50
S.D. = 1.1 on 4 of 4 obs.

% MAR 28, 1991 03h 40m 07.93± 1.02s
15.386 N ± 4.7km 60.784 W ±13.1km
DEPTH = 28.1 ± 6.8 km
LEEWARD ISLANDS (92)
ML 2.4 (FDF).

CRM 0.64 191 eP 40 20.70 0.1
BBL 0.68 282 eP 40 21.20 -0.1
S 40 28.70
FDF 0.74 209 eP 40 21.93 -0.3
S 40 31.40
MVM 0.83 187 iPc 40 23.75 0.0
S 40 24.20
BIM 0.91 198 eP 40 24.80 0.1
S 40 36.20
SFG 0.95 335 eP 40 25.00 -0.3
DEG 0.96 344 eP 40 25.15 -0.4
S 40 38.20
DOG 1.03 309 eP 40 26.60 0.1
S 40 38.60
PAG 1.07 307 eP 40 27.00 -0.2
S 40 39.20
SEG 1.23 326 eP 40 30.08 0.8
S 40 45.30
S.D. = 0.4 on 10 of 10 obs.

? MAR 28, 1991 03h 41m 46.08± 8.69s
15.753 N ±24.1km 96.199 E ±74.5km
DEPTH = 33.0km (normol)
SOUTH BURMA (298)

KHT 2.50 112 iPn 42 25.20 -0.2
ePg 42 39.00
eSg 43 16.20
BDT 3.07 61 ePn 42 33.00 -0.4
ePg 42 43.50
eSg 43 17.60
NST 3.79 91 ePn 42 44.00 0.4
ePg 42 46.90
eSg 43 07.50
CHG 4.02 40 eP 42 47.00 0.1
CHTO 4.02 40 iPn 42 47.00 0.1
S.D. = 0.4 on 5 of 5 obs.

? MAR 28, 1991 03h 57m 18.10±14.29s
19.100 N ±124.km 66.500 W ±14.6km
DEPTH = 33.0km (normol)
PUERTO RICO REGION (90)

LRS 0.87 202 P 57 33.80 -0.1
S 57 45.00
LPR 0.99 143 P 57 35.50 -0.2
S 57 48.50
SJG 1.04 161 iP 57 36.20 -0.2
CPD 1.19 152 P 57 38.90 0.4
MGP 1.22 207 P 57 39.00 0.1
S 57 55.20
S.D. = 0.3 on 5 of 5 obs.

% MAR 28, 1991 04h 56m 47.52± 0.81s
40.538 N ± 7.2km 23.673 E ± 9.3km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 1.7 (THE).

SOH 0.37 320 ePc 56 54.96 -0.2
iS 57 02.17
SRS 0.58 354 ePc 56 59.24 -0.1
eS 57 05.76
PAIG 0.61 179 ePc 56 59.76 0.0
eS 57 09.20

```
KNT     0.86 317 ePc   57 04.36   0.3
                 eS    57 17.00
ALN     1.84  78 ePd   57 19.41   0.0
     S.D. = 0.3  on   5 of   5 obs.
-----------------------------------------
*  MAR 28, 1991  05h 40m 37.68± 0.94s
   22.104 S ± 9.8km   68.786 W ±14.0km
   DEPTH = 131.8 ± 15.5 km
   3.7mb (  1 obs.)
 NORTHERN CHILE                   (123)

ANT     2.19 223 iP    41 14.50   0.0
                 iS    41 39.70
CCH     5.32  28 P     41 56.50   0.2
CNCB    5.32   8 P     41 57.00   0.3
                 i     42 37.00
LPB     5.58   7 eP    41 59.00  -1.0
                 i     42 36.80
ZOBO    5.84   6 P     42 04.00   0.3
ARE     6.17 335 eP    42 03.00  -5.0X
                 iS    43 06.50
SIV     9.49  52 P     42 47.40  -5.2X
PPD    16.20  93 eP    44 20.50   1.4
                 e     44 20.90
VAO    20.17  97 eP    45 02.20  -1.7
YKA    91.79 341 eP    53 31.70   0.6
       0.6s      0.30nm          3.7mb
GUN   156.35  71 PKP   00 00.00 -18.7X
     S.D. = 1.3  on   8 of  11 obs.
-----------------------------------------
   MAR 28, 1991  07h 22m 36.86± 0.19s
   18.308 S ± 4.4km  168.015 E ± 4.7km
   DEPTH =  29.2km  ( 10 depth phases)
   5.2mb ( 22 obs.)  5.2Msz ( 21 obs.)
 VANUATU ISLANDS                  (186)
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 21S, 52C
      Centroid Locotion:
      Origin Time        07:22:44.6 0.6
      Lat 17.81S 0.07 Lon 168.00E 0.04
      Dep  15.2 FIX Half-duration  2.7
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 3.02 0.09  Mtt=-0.02 0.16
        Mff=-3.01 0.17  Mrt= 2.46 0.30
        Mrf=-4.14 0.38  Mtf= 0.68 0.09
       Principal Axes:
        T  Val=  5.77  Plg=60  Azm= 50
        N        -0.10       8      155
        P        -5.67      29      249
      Best Double Couple:Mo=5.7*10**17
       NP1:Strike=  2 Dip=18 Slip= 118
       NP2:       152     74       81

PVC     0.63  27 iPd   22 47.70  -1.7
                 iS    22 56.70
BKM     0.67  19 iPd   22 48.60  -1.5
                 iS    22 56.30
DZM     4.02 201 iPc   23 35.30  -2.8X
                 iS    24 22.90
NDF     8.99  88 eP    24 44.20  -3.6X
SGE     9.46  87 eP    24 55.70   1.3
SVA     9.93  91 eP    25 13.30  12.6X
VUN     9.94  90 eP    25 03.50   2.6X
HNR    11.79 317 iP    25 25.50  -0.7
                 eS    27 33.00
SVO    12.09 318 eP    25 30.00  -0.2
                 eS    27 46.00
BRS    16.69 234 iPc   26 30.50   0.2
COO    19.07 227 ePc   27 00.60   0.8
RMO    19.56 242 iPd   27 05.20  -0.3
       1.0s   245.00nm          5.4mb
WLZ    20.56 163 P     27 14.50  -1.3
CTA    20.63 262 iPd   27 16.70   0.0
       1.2s   137.50nm          5.2mb
                 iS    31 08.00
RAB    20.91 310 eP    27 16.00  -3.6X
                 eS    31 08.00
PUZ    21.63 158 eP    27 26.10  -0.7
NOZ    22.04 159 P     27 29.80  -1.0
PMG    22.08 291 eP    27 30.00  -1.4
MNG    23.15 165 P     27 40.30  -1.4
       0.5s    54.00nm          5.3mb
PGZ    23.34 164 P     27 41.90  -1.7
QLP    23.44 245 eP    27 45.00   0.3
TCW    23.45 168 P     27 44.40  -0.2
CAW    23.52 167 eP    27 44.50  -0.8

MRW    23.56 167 eP    27 45.20  -0.4
                 e     27 52.50  26km
WEL    23.62 167 P     27 46.00  -0.3
                 S     32 08.00
WDW    23.65 167 P     27 46.30  -0.3
                 e     27 51.20  17kmX
MTW    23.66 166 P     27 45.40  -1.3
CNB    23.68 221 eP    27 49.00   2.0
THZ    23.75 171 P     27 47.20  -0.4
                 e     27 55.60  30km
CMS    23.96 233 eP    27 51.20   1.5
LTZ    24.66 172 P     27 55.20  -1.2
QIS    26.87 261 eP    28 17.00  -0.2
STK    27.39 235 eP    28 42.60  20.8X
TOO    27.52 221 eP    28 23.50   0.5
ADE    30.85 232 iPd   28 53.50   0.6
ASPA   32.24 255 iPd   29 03.20  -2.0
       0.7s    28.90nm          5.3mb
                 i     29 17.30  56kmX
                 iS    33 49.30
KNA    37.57 268 eP    29 53.00   2.3
WARB   38.96 251 eP    30 22.00  19.7X
AFR    40.10  96 eP    30 12.00   0.2
       0.8s    25.00nm          5.0mb
TVO    40.57  96 eP    30 16.00   0.3
       0.8s    30.00nm          5.1mb
PMO    42.29  92 eP    30 28.00  -1.8
       0.8s    15.00nm          4.8mb
TPT    42.56  92 eP    30 30.00  -2.0
       0.8s    10.00nm          4.6mb
RUV    42.74  93 eP    30 32.00  -1.5
       0.8s    20.00nm          4.9mb
MBL    45.31 258 iPd   30 54.20   0.0
MEKA   46.24 250 eP    31 02.00   0.5
KLB    47.07 244 eP    31 06.00  -2.0
NWAO   47.62 242 eP    31 11.00  -1.3
       0.7s    31.00nm          5.4mb
     Z 20s      3.30um          5.3Msz
     N 20s      1.30um
     E 20s      2.40um
                 iS    38 18.00
MUN    48.41 243 eP    31 17.40  -1.1
     Z 18s      6.20um          5.6Msz
PPR    56.07 296 ePc   32 15.00  -1.0
BAG    58.06 304 eP    32 26.00  -4.2X
                 eS    40 28.00
MAT    61.39 333 eP    32 51.00  -1.7
       0.9s    8.40nm           4.9mb
     Z 20s     0.71um           4.8Msz
                 eS    41 13.00
SSE    66.60 317 eP    33 12.00 -14.8X
       4.0s    0.40nm
     Z 20s     1.00um           5.0Msz
     N 18s     0.70um
                 pP    34 34.00 372kmX
                 S     42 14.00
                 esS   42 46.00
WHN    70.87 313 Pc    33 52.00  -1.3
       4.0s   600.00nm           6.0mb X
     Z 20s     0.60um           4.8Msz
                 pP    34 02.00  32km
                 eS    43 04.00
SNG    71.12 285 eP    34 07.90  12.8X
DL2    71.58 323 eP    33 57.00  -0.3
MDJ    71.76 332 iPc   33 56.70  -1.6
       1.0s    60.00nm          5.6mb
     Z 20s     0.90um           5.0Msz
                 sP    34 09.00
                 eS    43 15.00
                 sS    43 29.00
TIA    72.48 319 eP    34 00.00  -2.8
     Z 20s     0.80um           5.0Msz
SNY    72.57 327 Pc    34 00.00  -3.2X
       2.0s   100.00nm          5.5mb
     Z 20s     1.20um           5.2Msz
                 S     43 27.00
CN2    73.07 329 Pc    34 04.40  -1.7
       5.0s   600.00nm          5.9mb X
     Z 20s     2.10um           5.4Msz
     N 20s     1.10um
     E 20s     1.00um
                 pP    34 16.00  39km
                 eS    43 30.00
GYA    74.34 305 P     34 15.00   1.0
     Z 20s     0.60um           4.9Msz
                 pP    34 26.00  36km
                 S     43 48.00

NST    74.89 292 eP    34 19.50   2.4X
BJI    75.49 321 ePc   34 20.00  -0.1
       5.0s   930.00nm          6.1mb X
     Z 28s     0.83um           4.9MszX
                 eS    44 00.00
KHT    75.89 291 eP    34 22.60  -0.3
TIY    76.37 318 eP    34 25.00  -0.3
     Z 20s     1.40um           5.3Msz
     E 15s     0.43um
                 pP    34 33.00  26km
                 S     44 20.00
BDT    76.52 293 eP    34 26.10  -0.3
XAN    76.63 313 eP    34 25.50  -1.3
KMI    76.80 302 Pd    34 29.00   0.8
       2.5s   130.00nm          5.5mb
     Z 25s     0.90um           5.0MszX
                 pP    34 36.50  24km
                 S     44 20.00
CHG    77.21 295 iPc   34 30.50   0.2
       1.0s    25.00nm          5.2mb
CD2    78.75 308 eP    34 38.00  -0.6
                 sP    34 48.00
                 sS    44 52.00
HHC    78.76 320 P     34 37.80  -0.7
     Z 22s     1.30um           5.2Msz
                 pP    34 47.00  29km
                 S     44 35.00
MAW    78.86 202 eP    34 38.60   0.2
       1.0s    25.00nm          5.2mb
BTO    79.57 319 P     34 42.00  -0.9
                 pP    34 49.50  24km
LZH    81.25 312 Pc    34 51.50  -0.5
       6.0s   640.00nm          5.8mb X
     Z 24s     0.7Bum           5.0MszX
     N 10s     0.19um
                 pP    35 00.00  27km
                 PP    38 00.00
                 S     45 00.00
                 SS    50 20.00
GTA    85.65 314 P     35 14.20  -0.1
       2.2s   110.00nm          5.7mb
     Z 22s     0.90um           5.1Msz
                 SKS   45 34.00
                 S     45 39.00
SHL    85.89 298 iP    35 15.00  -0.9
                 iS    45 12.40
WDC    87.03  46 eP    35 22.50   1.6
CMB    87.41  49 eP    35 19.50  -3.3X
SBB    87.89  52 eP    35 26.00   0.8
RVR    87.95  53 eP    35 27.00   1.6
LSA    88.06 302 eP    35 26.10  -0.5
PLM    88.09  54 eP    35 24.00  -2.4X
CLC    88.52  52 eP    35 25.00  -3.2X
GSC    88.90  52 eP    35 29.00  -1.1
FBA    89.53  17 eP    35 29.00  -3.3X
       0.8s    6.90nm          5.0mb
GUN    91.74 299 P     35 42.80  -1.0
PKI    92.02 298 P     35 44.00  -1.0
KKN    92.20 298 P     35 44.80  -0.9
DMN    92.28 298 P     35 45.40  -0.8
PNT    92.74  39 eP    35 52.00   4.6X
       0.5s    3.00nm          5.0mb
GKN    92.81 298 P     35 46.80  -1.6
GBA    94.72 283 P     35 58.00   0.8
       0.8s    3.30nm          4.8mb
HYB    94.84 287 eP    35 57.00  -0.8
WMQ    95.73 314 P     36 00.00  -1.4
       2.0s   30.00nm          5.4mb
     Z 20s     0.90um           5.2Msz
                 PP    39 51.00
INK    96.03  19 eP    35 59.00  -3.1X
YKA   100.38  27 ePdiff36 19.00  -2.9X
       0.6s    0.90nm          4.5mb
FRB   120.83  26 ePKP  41 24.00  -3.2X
SIV   120.86 122 ePKP  41 25.00  -3.8X
PPD   124.43 135 ePKP  41 32.60  -2.9X
VAO   126.58 139 ePKP  41 35.50  -4.3X
KAF   128.77 338 ePKP  41 38.60  -4.0X
       0.5s    2.30nm
NUR   130.43 337 ePKP  41 43.00  -2.8X
APO   133.93 343 ePKP  41 41.60 -10.9X
       0.5s    2.40nm
NB2   134.24 344 PKP   41 49.70  -3.4X
       0.9s    4.80nm
PDCR  139.31 137 ePKP  41 52.20 -11.7X
                 e     42 02.20
SPC   139.72 327 ePKP  42 03.20  -0.7
SOB1  140.48 131 ePKP  41 55.50 -10.6X
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28d 07h

		e	42	03.80	
BRG	141.52	334 ePKP	42	06.30	-0.6
		e	45	42.00	
CLL	141.59	335 e(PKP)	42	09.00	2.1
ZST	141.95	328 ePKP	42	05.70	-2.0X
MOX	142.66	335 e(PKP)	42	00.00	-8.9X
KHC	142.97	332 ePKP	42	05.30	-4.2X
	Z 22s	0.60um		5.3Msz	
	N 22s	0.50um			
	E 22s	0.70um			
SKO	143.06	317 iPKP	42	04.90	-4.9X
		i	45	20.00	
GRF	143.56	334 ePKP	42	05.30	-5.1X
	Z 20s	0.60um		5.4Msz	
		e	42	17.70	
OHR	143.90	316 ePKP	42	06.50	-4.8X
	2.2s	311.00nm			
KBA	144.57	330 iPKPc	42	07.90	-4.5X
	1.2s	24.90nm			
		i	42	15.80	
		i	42	22.50	
		i	42	48.00	
ENN	144.61	340 ePKP	42	08.50	-3.6X
	1.0s	38.00nm			
VBY	144.68	326 ePKP	42	09.10	-3.3X
		i	42	09.90	
LJU	144.70	327 ePKP	42	09.50	-3.0X
FUR	144.71	333 iPKPc	42	09.70	-2.7X
MEM	144.72	340 PKPc	42	09.20	-3.1X
ABH	144.81	338 ePKP	42	09.71	-2.9X
CEY	144.96	327 ePKP	42	09.00	-4.0X
VOY	145.03	328 ePKP	42	09.70	-3.5X
FVI	145.18	330 PKP	42	10.30	-2.9X
SNF	145.34	342 PKP	42	11.70	-1.7
WLF	145.48	339 PKP	42	12.40	-1.2
DOU	145.61	341 PKPc	42	12.20	-1.7
	0.6s	29.10nm			
ECB	145.77	354 iPKPc	42	12.10	-1.9
	0.6s	40.00nm			
OGA	145.80	331 iPKPc	42	13.50	-1.1
ECP	145.91	354 ePKP	42	12.50	-1.8
CTI	146.12	330 PKP	42	13.80	-1.2
CDF	146.14	337 ePKP	42	13.00	-1.9
	0.8s	55.05nm			
SLE	146.19	335 ePKPc	42	13.80	-1.2
OSS	146.34	332 ePKPc	42	15.00	-0.4
ZLA	146.46	335 ePKPc	42	14.50	-0.9
LLS	146.69	333 ePKPc	42	15.70	-0.3
VDL	146.79	333 ePKPc	42	16.30	0.1
BSF	146.80	337 ePKP	42	14.70	-1.3
HAU	146.82	337 ePKP	42	14.80	-1.2
	0.6s	13.55nm			
	Z 22s	0.85um		5.5Msz	
CIO	147.35	325 ePKP	42	17.90	0.9
SFI	147.54	327 PKP	42	10.60	-6.5X
TDS	147.57	317 PKPd	42	19.50	2.1
VAI	147.57	332 PKP	42	17.70	0.6
PGD	147.64	327 PKP	42	19.80	2.2
SGO	147.72	319 PKP	42	18.70	1.2
MMK	147.78	334 ePKPc	42	19.30	1.5
MME	147.93	329 PKP	42	20.10	2.0
SDI	147.93	322 PKP	42	19.10	1.1
FIR	147.95	327 ePKP	42	25.00	7.2X
DIX	147.98	334 ePKPc	42	19.80	1.6
BDI	148.08	328 PKP	42	18.70	0.5
ORX	148.10	333 PKP	42	18.82	0.6
ORO	148.11	333 PKP	42	19.10	0.9
BOB	148.11	330 PKP	42	19.80	1.6
EMS	148.19	335 ePKPc	42	20.00	1.6
FLN	148.22	345 ePKP	42	18.50	0.4
	1.0s	110.00nm			
	Z 22s	1.23um		5.6Msz	
LDF	148.29	345 ePKP	42	18.50	0.3
	0.7s	20.95nm			
LOR	148.32	339 ePKP	42	19.00	0.6
	0.8s	40.95nm			
	Z 22s	0.85um		5.5Msz	
LBF	148.53	339 ePKP	42	19.40	0.6
	0.9s	22.10nm			
LSD	148.59	334 PKP	42	20.97	1.8
SSF	148.62	339 ePKP	42	19.80	1.0
RSL	148.62	335 PKP	42	20.89	1.8
GRR	148.66	346 ePKP	42	19.70	0.9
	0.8s	30.90nm			
PCP	148.70	331 PKP	42	21.28	2.2
LPL	148.72	334 ePKP	42	20.70	1.3
	0.6s	16.25nm			

LPG	148.73	334 ePKP	42	20.90	1.4
	0.7s	34.15nm			
RSP	148.79	333 PKP	42	20.66	1.3
SMF	148.87	339 ePKP	42	19.60	0.3
	1.0s	27.00nm			
AVF	148.91	339 ePKP	42	19.70	0.4
	1.0s	25.00nm			
CKI	148.91	331 PKP	42	20.80	1.4
LPF	149.04	346 ePKP	42	21.10	1.7
	0.8s	51.05nm			
BHB	149.04	333 PKP	42	20.66	1.1
FIN	149.11	331 PKP	42	21.18	1.4
BNI	149.12	334 PKPc	42	22.80	2.9X
RRL	149.18	334 PKP	42	22.10	2.0
ROB	149.20	332 PKP	42	21.18	1.3
BGF	149.28	340 ePKP	42	21.50	1.6
	0.8s	36.25nm			
PZZ	149.37	333 PKP	42	19.84	-0.4
ENR	149.45	332 PKP	42	21.18	0.8
STV	149.48	332 PKP	42	20.97	0.6
IMI	149.49	331 PKP	42	22.10	1.7
MAF	149.67	340 ePKP	42	22.50	2.0
	1.2s	38.70nm			
TCF	149.73	340 ePKP	42	22.50	1.9
	1.1s	48.85nm			
SBF	149.73	332 ePKP	42	22.50	1.8
	0.8s	29.55nm			
SSB	149.78	336 PKP	42	23.79	3.1X
LSF	149.97	341 ePKP	42	22.90	2.0
	0.8s	31.55nm			
PGF	149.98	328 ePKP	42	23.50	2.3X
	0.9s	62.25nm			
MFF	150.14	343 ePKP	42	23.70	2.6X
	0.7s	37.50nm			
FRF	150.32	332 ePKP	42	24.00	2.5X
	1.1s	56.15nm			
LRG	150.53	332 ePKP	42	24.80	3.0X
	0.8s	37.60nm			
	Z 21s	0.47um		5.3Msz	
LMR	150.56	332 ePKP	42	24.70	2.8X
	0.9s	34.40nm			
CDR	150.61	333 ePKPc	42	25.90	3.9X
RJF	150.82	340 ePKP	42	25.10	2.9X
	0.9s	26.20nm			
	Z 21s	0.55um		5.3Msz	
CAF	150.98	339 ePKP	42	25.80	3.3X
	0.7s	8.80nm			
LFF	151.40	341 ePKP	42	26.60	3.5X
	0.7s	26.45nm			
LPO	151.48	340 ePKP	42	26.90	3.7X
	0.8s	24.20nm			
EPF	153.23	340 ePKP	42	31.10	5.2X
	0.9s	9.00nm			
LKO	169.31	216 PKP	42	40.60	-2.5X
	S.D. = 1.3	on 137 of 198 obs.			

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* MAR 28, 1991 07h 58m 31.94± 1.35s
18.207 S ±11.2km 167.974 E ±10.6km
DEPTH = 26.1 ± 8.9 km
4.6mb (3 obs.) 5.3Msz (1 obs.)
VANUATU ISLANDS (186)

PVC	0.57	35 iPd	58	43.00	-0.2
		iS	58	52.00	
BKM	0.59	26 iPd	58	43.80	0.1
		iS	58	53.20	
DZM	4.10	200 iPc	59	30.60	-4.0X
		iS	00	15.20	
SGE	9.49	88 eP	00	53.20	3.0X
HNR	11.69	317 eP	01	20.00	-0.2
	0.9s	168.07nm		6.3mb X	
		eS	03	31.00	
SVO	11.99	318 eP	01	25.00	0.8
		eS	03	41.00	
BRS	16.72	234 iPc	02	26.50	0.4
COO	19.11	227 eP	02	55.00	-0.7
RMO	19.58	242 iPc	03	01.00	-0.1
CTA	20.60	261 iPc	03	12.10	0.2
	0.9s	29.41nm		4.7mb	
CNB	23.73	220 eP	03	44.00	1.0
CMS	23.99	232 eP	03	46.00	0.5
ASPA	32.23	254 iPd	04	58.40	-2.2
	0.8s	14.10nm		4.9mb	
		i	05	07.90	
FBA	89.45	17 eP	11	24.00	-3.5X
YKA	100.31	27 ePdiff	12	14.10	-3.1X
	0.7s	0.30nm		3.9mb	

TUL	105.37	57 Pdiff	12	30.20	-10.2X
	Z 20s	0.86um		5.3Msz	
NUR	130.32	337 ePKP	17	38.00	-3.1X
NB2	134.14	344 PKP	17	45.50	-3.0X
	0.8s	1.70nm			
KBA	144.46	330 e(PKP)	18	03.50	-4.3X
	0.9s	3.80nm			
MEM	144.61	340 PKP	18	04.80	-2.9X
ABH	144.71	338 ePKP	18	04.75	-3.2X
SNF	145.23	342 PKPc	18	06.70	-2.0
DOU	145.51	341 PKP	18	07.60	-1.6
	0.7s	20.00nm			
ECB	145.66	354 ePKP	18	07.20	-2.2
OGA	145.70	332 iPKPd	18	09.00	-1.0
ECP	145.81	354 ePKP	18	07.70	-1.9
	0.9s	76.00nm			
CDF	146.03	337 ePKP	18	08.60	-1.7
	0.7s	16.55nm			
SLE	146.08	335 ePKPd	18	09.20	-1.2
OSS	146.23	332 ePKPd	18	10.50	-0.3
LLS	146.59	333 ePKPd	18	11.10	-0.3
VDL	146.68	333 ePKPd	18	11.80	0.2
BSF	146.69	337 ePKP	18	10.50	-0.9
HAU	146.71	337 ePKP	18	10.60	-0.7
	1.0s	16.00nm			
VAI	147.47	333 PKPd	18	13.20	0.7
MMK	147.67	334 ePKPd	18	14.00	0.8
DIX	147.88	334 ePKPd	18	15.10	1.5
EMS	148.08	335 ePKPd	18	15.50	1.7
FLN	148.11	345 ePKP	18	14.00	0.5
	0.8s	18.80nm			
LDF	148.18	345 ePKP	18	14.00	0.4
LOR	148.22	339 ePKP	18	14.50	0.7
	0.8s	18.80nm			
LBF	148.42	339 ePKP	18	15.00	0.9
	0.9s	11.45nm			
SSF	148.51	339 ePKP	18	15.50	1.3
	0.3s	24.20nm			
GRR	148.55	346 ePKP	18	15.40	1.2
	0.7s	12.15nm			
LPL	148.61	334 ePKP	18	16.20	1.4
	0.8s	10.05nm			
LPG	148.62	334 ePKP	18	16.40	1.5
	0.7s	10.45nm			
LPF	148.93	346 ePKP	18	16.30	1.5
	0.9s	31.10nm			
MAF	149.56	340 ePKP	18	18.20	2.3X
	1.0s	12.00nm			
SBF	149.62	332 ePKP	18	18.10	2.0X
	0.9s	19.65nm			
LSF	149.87	341 ePKP	18	18.60	2.3X
	0.9s	18.85nm			
PGF	149.87	328 ePKP	18	19.10	2.5X
	0.9s	24.55nm			
MFF	150.03	343 ePKP	18	19.10	2.6X
	0.9s	19.65nm			
FRF	150.21	332 ePKP	18	19.60	2.7X
	1.0s	16.00nm			
LRG	150.43	332 ePKP	18	20.40	3.2X
LMR	150.46	332 ePKP	18	20.30	3.0X
	1.0s	18.00nm			
RJF	150.72	340 ePKP	18	21.00	3.4X
	0.8s	10.75nm			
CAF	150.87	339 ePKP	18	21.60	3.7X
	1.0s	8.00nm			
LFF	151.29	341 ePKP	18	22.20	3.7X
	0.8s	14.80nm			
LPO	151.38	340 ePKP	18	22.50	3.9X
	0.9s	16.40nm			
	S.D. = 1.2	on 36 of 58 obs.			

MAR 28, 1991 08h 22m 37.95± 0.75s
43.424 N ± 5.5km 5.466 E ± 5.8km
DEPTH = 5.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
MD 2.6 (STR).

GELF	0.05	215 Pg	22	38.94	-0.5
BERF	0.20	124 Pg	22	42.25	0.2
PUYF	0.20	58 Pg	22	41.65	-0.4
TREF	0.21	343 Pg	22	41.80	-0.4
CDR	0.33	41 ePgd	22	43.10	-1.6
		e(Sg)	22	47.50	
PRAF	0.44	331 Pg	22	46.83	0.1
VILF	0.46	23 Pg	22	46.83	-0.4
TAVF	0.47	66 Pg	22	46.98	-0.4
FOUF	1.46	40 e(Pg)	23	05.56	0.7

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                e(Sg) 23 22.75
DOI     1.68  49 P    23 09.00   0.8
                eSn   23 32.00
BNI     1.85  28 P    23 12.80   2.1
                eSn   23 36.20
CKI     2.27  63 P    23 16.50  -0.1
     S.D. = 1.0  on  12 of  12 obs.
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% MAR 28, 1991  08h 36m 54.30± 0.48s
   42.700 N ± 4.1km   19.176 E ± 4.1km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                        (383)
      ML 1.1 (TTG).

NKY     0.17 311 iPgc  36 58.74   0.5
                iSg   37 01.72
TTG     0.28 167 iPgc  37 00.35   0.2
                iSg   37 04.72
BDV     0.49 212 iPgd  37 04.16  -0.1
                iSg   37 11.82
BRY     0.51 294 iPgd  37 04.29  -0.3
                iSg   37 13.14
IVA     0.56  72 iPgd  37 05.82   0.1
                iSg   37 15.19
HCY     0.56 243 iPgd  37 05.39  -0.3
                iSg   37 14.64
PVY     0.60 100 iPgc  37 05.97  -0.5
                iSg   37 16.15
PLE     0.65  14 iPgd  37 07.44   0.1
                iSg   37 18.09
ULC     0.74 176 iPgd  37 09.12   0.3
     S.D. = 0.4  on   9 of   9 obs.
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* MAR 28, 1991  08h 57m 15.25± 1.42s
   18.317 S ± 9.0km  168.096 E ±12.2km
   DEPTH =  30.2 ± 10.4 km
   4.7mb (  4 obs.)
 VANUATU ISLANDS                   (186)

PVC     0.61  20 iPd   57 27.70   0.3
                iS    57 36.90
BKM     0.66  12 iPd   57 28.60   0.3
                iS    57 38.00
DZM     4.04 202 iPd   58 15.10  -1.6
                iS    58 59.00
SGE     9.38  87 eP    59 37.10   5.5X
HNR    11.85 317 eP    00 04.00  -1.3
VSG    12.14 317 eP    00 09.00  -0.2
COO    19.12 227 eP    01 40.00   1.4
RMO    19.63 242 eP    01 45.60   1.1
CTA    20.70 262 iPd   01 56.80   1.1
       1.0s    30.00nm          4.6mb
ASPA   32.32 255 iPd   03 43.00  -1.1
       0.5s     12.10nm          5.1mb
                i     03 56.60
SPA    71.80 180 iPd   08 31.20  -5.6X
       1.0s     10.00nm          4.8mb
YKA   100.35  27 ePdiff10 59.00  -1.1X
       0.7s      0.40nm          4.1mb
MEM   144.76 340 PKP   16 49.30  -1.3
ABH   144.85 338 ePKP  16 49.64  -1.2
DOU   145.65 341 PKPc  16 51.80  -0.4
       0.7s     14.40nm
OGA   145.85 332 ePKP  16 53.60   0.7
CDF   146.17 337 ePKP  16 53.40   0.2
       0.7s     14.35nm
BSF   146.84 337 ePKP  16 55.30   1.0
HAU   146.86 337 ePKP  16 55.40   1.1
       0.9s      9.85nm
FLN   148.25 346 ePKP  16 59.00   2.6X
       0.8s     14.80nm
LDF   148.32 345 ePKP  16 58.80   2.3X
       0.7s      7.70nm
LOR   148.36 339 ePKP  16 59.40   2.7X
       0.8s     16.10nm
LBF   148.57 339 ePKP  16 59.90   2.8X
       1.0s     11.00nm
SSF   148.66 340 ePKP  17 00.30   3.2X
       0.8s     18.15nm
GRR   148.69 346 ePKP  17 00.30   3.2X
       0.8s     14.80nm
LPL   148.76 334 ePKP  17 01.20   3.5X
       0.7s      6.60nm
LPG   148.77 334 ePKP  17 01.20   3.4X
       0.6s      7.20nm
SMF   148.91 339 ePKP  17 00.80   3.2X
       0.6s      4.50nm
AVF   148.95 339 ePKP  17 00.70   3.1X
       0.9s      8.20nm
LPF   149.06 346 ePKP  17 01.20   3.5X
       0.8s     24.20nm
MAF   149.71 340 ePKP  17 03.10   4.3X
       1.0s     10.00nm
TCF   149.76 340 ePKP  17 02.90   4.0X
       0.9s      8.20nm
SBF   149.78 332 ePKP  17 03.70   4.7X
       1.0s     24.00nm
LSF   150.01 341 ePKP  17 03.30   4.1X
       0.8s     14.10nm
PGF   150.03 328 ePKP  17 03.90   4.4X
       0.8s      9.40nm
MFF   150.17 344 ePKP  17 03.90   4.5X
       0.9s     14.75nm
FRF   150.37 332 ePKP  17 04.40   4.6X
       0.9s     11.45nm
LRG   150.58 332 ePKP  17 05.30   5.2X
LMR   150.61 332 ePKP  17 05.10   4.9X
       1.0s     16.00nm
RJF   150.86 340 ePKP  17 05.90   5.4X
       0.9s     11.45nm
CAF   151.01 339 ePKP  17 06.30   5.5X
LFF   151.43 341 ePKP  17 07.00   5.6X
       0.8s     12.10nm
LPO   151.52 340 ePKP  17 07.20   5.7X
       0.8s      9.40nm
     S.D. = 1.2  on  16 of  43 obs.
-----------------------------------------
? MAR 28, 1991  11h 37m 39.24± 2.57s
   35.862 N ±10.9km   12.541 E ±35.8km
   DEPTH =  10.0km  (geophysicist)
 MEDITERRANEAN SEA                 (400)
      MD 3.2 (ROM).

LPD     0.35 173 P     37 46.50   0.0
PTS     1.04 335 P     38 09.50  10.6X
PZI     2.24  58 ePn   38 17.50   0.5
MEU     2.29  57 ePn   38 17.00  -0.7
                eSn   38 52.00
GIB     2.43  29 P     38 19.50  -0.3
                eSn   38 56.50
MNO     2.69  39 ePn   38 24.00   0.4
                eSn   39 03.00
     S.D. = 0.7  on   5 of   6 obs.
-----------------------------------------
* MAR 28, 1991  12h 11m 33.04± 0.63s
   16.309 S ±22.4km  174.597 W ±10.7km
   DEPTH =  33.0km  (normol)
   4.7mb ( 14 obs.)  5.0Msz (  2 obs.)
 TONGA ISLANDS                     (173)

DZM    18.79 249 iPd   15 53.00   0.7
PAE    23.96  97 eP    16 51.00   5.6X
       1.2s     45.00nm          4.9mb
TVO    24.27  97 eP    16 55.00   6.4X
       1.2s     70.00nm          5.1mb
PMO    25.74  91 eP    17 02.80   0.4
       1.2s     30.00nm          4.8mb
VAH    25.97  91 iP    17 04.60   0.1
       1.2s     30.00nm          4.8mb
TPT    26.01  91 iP    17 05.20   0.3
       1.2s     25.00nm          4.7mb
RUV    26.21  91 iP    17 06.80   0.0
       1.2s     30.00nm          4.8mb
STK    42.59 240 iPc   19 47.40  19.6X
       0.9s      2.10nm
ASPA   48.74 253 iPc   20 15.70  -1.2
       1.4s      6.60nm          4.5mb
     Z 20s       1.40um          4.9Msz
                i     20 21.60
CM8    74.21  42 P     23 08.70   0.1
TNP    76.28  43 P     23 18.80  -1.9
       1.0s     10.00nm          4.8mb
PNT    81.40  33 eP    23 53.00   5.1X
PV09   81.96  46 P     23 53.00   1.5
ALO    82.26  50 eP    23 52.00  -1.0
       1.1s      5.70nm          4.5mb
ANMO   82.27  50 P     23 53.00   0.0
       1.0s      6.25nm          4.6mb
LRM    83.44  38 eP    24 03.60   4.7X
F8A    83.50  11 P     23 59.00   0.5
       0.9s     12.50nm          5.0mb
BW06   83.71  42 P     23 58.50  -1.8
       1.0s      4.17nm          4.5mb
BJI    85.26 314 eP    24 12.00   4.2X
       1.2s      9.00nm          4.9mb
SES    86.60  35 eP    24 19.00   4.7X
RSSD   87.90  43 P     24 24.80   3.9X
INK    89.42  14 eP    24 30.00   2.6
YKA    91.39  24 eP    24 35.70  -0.8
       0.9s      1.10nm          4.2mb
ZOBO  100.59 110 (Pdiff25 29.00   8.7X
                LR    54 20.00
SPC   145.05 343 ePKP  31 07.70  -1.1
                e     44 28.60
MOX   145.39 353 e(PKP)31 14.00   4.9X
PRU   145.60 350 ePKP  31 11.00   1.5
                e     31 14.70
MLR   146.19 334 ePKP  31 15.00   4.2X
KHC   146.59 350 PKP   31 15.20   4.0X
ZST   146.78 346 ePKP  31 20.90   9.4X
LDF   147.49   7 ePKP  31 19.60   7.0X
GRR   147.60   8 ePKP  31 17.80   5.0X
LPF   147.92   8 ePKP  31 18.80   5.5X
       1.2s     23.80nm
LOR   149.10   2 ePKP  31 25.50  10.2X
     Z 21s      0.25um          5.0Msz
SSF   149.30   3 ePKP  31 25.00   9.5X
       1.1s     11.00nm
LBF   149.39   2 ePKP  31 25.20   9.5X
BGF   149.77   4 ePKP  31 22.90   6.6X
       1.2s     13.40nm
LSF   149.97   5 ePKP  31 22.60   6.0X
TCF   149.99   4 ePKP  31 23.30   6.7X
MAF   150.08   4 ePKP  31 22.50   5.7X
       1.0s     10.00nm
SKO   150.95 335 ePKP  31 23.00   4.8X
OHR   151.93 335 ePKP  31 28.00   8.3X
     S.D. = 1.3  on  17 of  42 obs.
-----------------------------------------
   MAR 28, 1991  12h 52m 31.71± 0.52s
   40.384 N ± 5.8km   28.866 E ± 4.1km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)

KCT     0.41 251 iPg   52 39.10  -1.0
IZI     0.47  96 iPg   52 41.30   0.1
GBZT    0.60  47 ePg   52 48.50   4.7X
                iSg   52 52.20
ISK     0.70  12 iPg   52 45.90   0.4
                iSg   52 55.90
BNT     0.72 268 iPg   52 46.60   0.7
                eSg   52 55.60
HRT     0.75  54 ePg   52 45.70  -0.7
EDC     0.77 268 ePg   52 47.00   0.3
                eSg   52 57.00
DST     0.80 193 ePg   52 47.50   0.2
                eSg   52 59.50
CTT     0.83 337 ePg   52 47.60  -0.2
EYL     1.00  79 iPg   52 51.00   0.2
GPA     1.11  94 iPn   52 54.70   2.2X
ALT     1.64 144 iPn   53 02.60   1.9X
DMK     1.66 330 ePn   53 02.90   1.9X
     S.D. = 0.6  on   9 of  13 obs.
-----------------------------------------
* MAR 28, 1991  12h 58m 31.35± 0.82s
   37.679 N ±11.3km  118.909 W ± 7.5km
   DEPTH =   5.0km  (geophysicist)
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      ML 2.2 (GS).

80NR    0.55  60 eP    58 42.50   0.0
CMB     1.22 287 eP    58 53.40  -1.2
TNP     1.40  73 eP    58 57.60  -0.1
KVN     1.51  25 eP    58 59.50   0.2
ARN     2.11 262 eP    59 09.40   1.6
BCH     2.66 201 eP    59 15.30  -0.5
ORV     2.76 314 P     59 20.50   3.4X
     S.D. = 1.2  on   6 of   7 obs.
-----------------------------------------
% MAR 28, 1991  15h 08m 26.03± 1.88s
   41.141 N ±13.7km   23.568 E ± 8.4km
   DEPTH =   5.0km  (geophysicist)
 GREECE-BULGARIA BORDER REGION     (363)
      MD 2.1 (THE).

SRS     0.03 143 ePc   08 27.00  -0.3
                eS    08 27.64
SOH     0.36 207 iPd   08 33.56   0.3
                eS    08 40.52
KNT     0.51 273 ePc   08 36.96   0.8
                iS    08 44.84
```

28d 15h

THE 0.68 222 iPc 08 39.20 -0.5
OUR 0.87 159 ePd 08 43.12 0.0
GRG 0.90 259 ePc 08 42.92 -0.9
PAIG 1.22 176 iPc 08 49.66 0.5
S.D. = 0.7 on 7 of 7 obs.

? MAR 28, 1991 15h 18m 44.61± 3.07s
29.760 S ±27.6km 67.248 W ±11.2km
DEPTH = 118.3 ± 44.2 km
LA RIOJA PROVINCE, ARGENTINA (138)

RTLL 1.89 214 iPc 19 16.10 -1.0
RTRS 1.96 257 iPd 19 18.00 0.1
CFA 2.03 205 ePd 19 19.10 0.2
eS 19 43.30
ZON 2.17 214 eP 19 21.50 0.9
eS 19 48.50
TCA 2.78 125 iPd 19 28.70 0.0
(S) 20 01.80
MDZ 3.40 203 eP 19 44.30 7.3X
PEL 4.47 220 eP 19 57.50 6.0X
PCH 4.75 215 eP 19 58.90 3.6X
LNV 5.48 219 eP 20 05.00 -0.1
S.D. = 0.9 on 6 of 9 obs.

% MAR 28, 1991 15h 55m 42.43± 1.18s
40.097 N ±11.1km 29.141 E ± 9.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

IZI 0.35 47 iPg 55 50.00 0.3
YLV 0.50 21 iPg 55 52.20 -0.4
KCT 0.62 284 ePg 55 54.00 -0.9
DST 0.63 219 ePg 55 55.00 -0.1
iSg 56 05.00
BNT 0.97 286 ePg 56 02.00 1.1
S.D. = 1.1 on 5 of 5 obs.

% MAR 28, 1991 16h 00m 11.09± 1.05s
39.853 N ± 6.3km 30.213 E ±13.2km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

GPA 0.44 10 iPg 00 19.80 -0.3
eSg 00 26.80
EYL 0.71 357 iPg 00 25.70 0.5
IZI 0.75 311 iPg 00 26.00 0.3
ALT 0.80 186 ePg 00 26.70 0.0
YLV 0.96 318 ePn 00 29.00 -0.4
S.D. = 0.5 on 5 of 5 obs.

MAR 28, 1991 17h 31m 08.42± 0.35s
15.460 S ± 7.0km 166.244 E ± 7.3km
DEPTH = 33.0km (normal)
4.9mb (5 obs.) 4.2Msz (1 obs.)
VANUATU ISLANDS (186)

BKM 2.92 139 iP 31 52.50 -1.0
PVC 3.01 139 iP 31 53.50 -1.4
iS 32 27.00
DZM 6.58 178 iPd 32 42.00 -3.5X
iS 33 53.60
HNR 8.58 314 eP 33 12.00 -1.4
eS 34 50.00
VSG 8.87 313 eP 33 16.00 -1.4
eS 34 55.00
SVO 8.87 314 eP 33 16.00 -1.4
eS 34 56.00
CTA 19.58 253 iPd 35 37.20 0.4
0.7s 32.88nm 4.7mb
RMO 19.65 233 iPc 35 37.70 0.1
COO 19.99 219 eP 35 42.00 0.9
CMS 24.53 226 eP 36 27.00 0.7
CNB 24.90 214 ePd 36 32.00 2.1X
i 36 40.80
QIS 25.82 255 eP 36 38.00 -0.6
STK 27.77 230 iPc 37 16.70 20.3X
0.6s 3.60nm
ASPA 31.49 250 iPd 37 28.10 -1.6
0.7s 13.60nm 4.9mb
Z 19s 0.50um 4.2Msz
CN2 69.77 330 Pc 42 17.60 0.3
BJI 72.22 322 eP 42 33.00 0.8
TIY 73.13 318 eP 42 39.60 1.9
GTA 82.46 314 eP 43 31.00 1.8
1.4s 20.00nm 5.0mb
PNT 91.60 39 eP 44 14.00 0.8

0.8s 10.00nm 5.3mb
WMO 92.53 315 P 44 18.50 0.8
YKA 98.65 27 eP 44 43.50 -1.5
0.9s 1.50nm 4.5mb
APO 130.72 342 ePKP 50 17.00 -0.4
0.5s 0.80nm
VAI 144.28 333 PKP 50 37.40 -5.3X
FLN 145.05 345 ePKP 50 43.30 -0.7
0.7s 8.80nm
LOR 145.07 339 ePKP 50 43.60 -0.5
0.8s 14.80nm
LDF 145.11 344 ePKP 50 43.50 -0.6
1.0s 12.00nm
LBF 145.28 339 ePKP 50 44.30 -0.2
0.8s 12.75nm
SSF 145.37 339 ePKP 50 44.80 0.2
0.7s 30.30nm
LPL 145.43 334 ePKP 50 45.60 0.5
0.7s 4.40nm
LPG 145.44 334 ePKP 50 45.70 0.5
0.8s 8.05nm
GRR 145.49 345 ePKP 50 45.00 0.3
0.9s 32.75nm
SMF 145.61 338 ePKP 50 45.50 0.4
1.2s 23.80nm
AVF 145.66 339 ePKP 50 45.60 0.5
1.0s 9.00nm
LPF 145.87 345 ePKP 50 46.20 0.8
0.9s 29.50nm
BGF 146.04 339 ePKP 50 46.80 1.0
0.9s 11.45nm
MAF 146.42 339 ePKP 50 48.00 1.6X
1.2s 10.40nm
SBF 146.43 332 ePKP 50 48.50 1.9X
0.9s 16.40nm
TCF 146.49 340 ePKP 50 48.10 1.6X
0.9s 7.35nm
PGF 146.68 329 ePKP 50 48.80 1.8X
0.8s 8.05nm
LSF 146.74 341 ePKP 50 48.40 1.5X
0.8s 7.40nm
FRF 147.03 332 ePKP 50 49.30 1.9X
LRG 147.24 332 ePKP 50 50.10 2.4X
1.1s 17.10nm
S.D. = 1.0 on 31 of 42 obs.

? MAR 28, 1991 18h 11m 05.04± 1.48s
44.435 N ±15.8km 141.403 E ±25.9km
DEPTH = 225.9 ± 18.7 km
4.0mb (5 obs.)
HOKKAIDO, JAPAN REGION (224)

AOMJ 3.95 191 P 12 07.90 0.3
S 12 53.40
OFUJ 5.35 178 P 12 24.50 -0.6
S 13 23.20
YAMJ 6.34 190 P 12 38.00 0.3
S 13 45.70
YKA 57.49 32 eP 20 32.00 -0.2
0.5s 0.60nm 3.5mb
HFS 67.37 335 eP 21 37.20 -0.2
0.4s 1.40nm 4.0mb
NB2 67.39 336 P 21 37.40 -0.1
0.7s 1.20nm 3.7mb
FFC 67.54 34 eP 21 39.00 0.5
0.6s 5.00nm 4.4mb
ASPA 68.11 187 iPc 21 42.30 0.0
1.4s 5.90nm 4.1mb
S.D. = 0.5 on 8 of 8 obs.

MAR 28, 1991 18h 32m 15.21± 2.71s
37.080 N ± 5.3km 71.366 E ± 3.3km
DEPTH = 27.5 ± 20.7 km
4.8mb (43 obs.) 3.8Msz (1 obs.)
AFGHANISTAN-USSR BORDER REGION (717)

KSH 4.34 55 ePn 33 26.50 5.4X
QUE 7.80 209 eP 34 11.60 1.7
eS 35 46.00
NDI 9.71 148 iPc 34 36.50 0.4
0.6s 33.33nm 5.8mb X
iS 36 23.50
WMO 14.13 56 P 35 34.00 -1.6
1.0s 40.00nm 5.0mb
eS 38 12.00
GKN 14.38 125 P 35 34.00 -5.1X
KKN 14.95 124 P 35 41.50 -5.0X

DMN 14.95 125 P 35 42.60 -4.1X
PKI 15.18 125 P 35 44.80 -4.8X
GUN 15.27 123 P 35 45.20 -5.6X
LSA 18.07 108 eP 36 24.40 -2.0X
POO 18.61 173 eP 36 31.50 -1.1
TAB 19.86 280 eP 36 48.00 0.9
HYB 20.59 160 ePd 36 54.40 -0.3
0.8s 111.50nm 5.3mb
i 36 58.50
SHL 20.90 117 iP 36 57.60 -0.5
iS 40 37.00
GTA 22.43 75 eP 37 13.80 0.5
0.8s 20.00nm 4.6mb
Z 16s 0.60um 4.1MszX
E 11s 0.60um
pP 37 19.60 21kmX
GBA 24.00 165 Pc 37 26.50 -2.0
0.7s 35.20nm 5.0mb
LZH 26.03 82 eP 37 48.00 0.0
1.5s 28.00nm 4.7mb
Z 13s 0.39um 4.1MszX
E 10s 0.30um
pP 38 00.00 47kmX
eS 42 20.00
KOD 27.29 167 eP 38 00.90 1.1
CD2 27.47 93 eP 38 01.10 0.1
BTO 30.15 71 eP 38 25.00 -0.1
CHG 30.24 119 eP 38 27.50 1.5
XAN 30.57 84 P 38 27.00 -1.8
HHC 31.29 71 P 38 35.60 0.5
GYA 31.66 99 P 38 38.80 0.3
pP 38 44.00 18kmX
TIY 32.45 76 Pc 38 45.70 0.4
Z 12s 0.48um 4.4MszX
N 10s 0.27um
KHT 32.85 125 eP 38 41.40 -7.4X
BJI 34.89 71 eP 39 07.00 0.8
1.0s 9.00nm 4.7mb
KAF 37.30 327 iP 39 30.10 3.8X
0.6s 4.30nm 4.5mb
NUR 37.53 324 eP 39 28.40 0.1
0.5s 2.00nm 4.2mb
KRA 38.70 306 ePd 39 42.40 4.1X
e 40 01.50
SOD 39.34 335 iP 39 46.70 3.4X
SNY 40.08 67 eP 39 48.80 -1.0
KEV 40.37 338 eP 39 47.00 -4.8X
UPP 40.80 321 iP 39 59.00 3.6X
KSP 41.01 308 eP 40 01.00 3.7X
CN2 41.08 63 eP 40 00.00 2.0
SSE 41.31 83 eP 40 04.50 4.5X
1.0s 12.00nm 4.6mb
PRU 42.18 306 eP 40 11.50 4.6X
epP 41 25.00 372kmX
e 41 49.50
IPM 42.24 133 ePc 40 07.10 -0.6
BRG 42.50 308 eP 40 10.70 1.2
1.0s 15.00nm 4.7mb
HFS 42.79 322 eP 40 11.40 -0.4
0.6s 22.00nm 5.1mb
Z 17s 0.17um 4.0MszX
LR 58 02.00
KHC 42.89 305 eP 40 14.70 1.9
e 41 50.50
CLL 43.06 308 e(P) 40 18.00 3.9X
e 41 56.00
KBA 43.30 302 iPc 40 19.90 3.5X
0.9s 6.70nm 4.4mb
i 40 33.80
e 40 45.00
MDJ 43.86 61 eP 40 25.50 4.8X
MOX 43.99 308 e(P) 40 21.00 -0.7
NB2 44.10 323 P 40 22.20 -0.2
0.8s 10.30nm 4.7mb
CDF 47.12 305 eP 40 46.70 0.0
0.7s 4.15nm 4.6mb
PGF 47.27 297 eP 40 47.70 -0.3
0.8s 9.40nm 4.9mb
BSF 47.55 304 eP 40 49.70 -0.4
0.7s 9.90nm 4.9mb
HAU 47.81 305 eP 40 51.70 -0.3
0.7s 4.40nm 4.6mb
Z 18s 0.10um 3.8Msz
SBF 48.03 299 eP 40 54.10 0.2
0.9s 22.95nm 5.2mb
LPG 48.10 301 eP 40 54.60 -0.1
0.9s 4.10nm 4.5mb

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LPL     48.10  301 eP     40 54.80    0.2
        0.9s      11.45nm           4.9mb
RSL     48.14  302 P      40 55.00    0.2
FRF     48.66  299 eP     40 58.70    0.0
        0.7s      11.00nm           5.0mb
SMF     49.78  304 eP     41 06.90   -0.3
        0.7s      10.45nm           5.0mb
SSF     49.90  304 eP     41 07.50   -0.6
        0.7s       4.95nm           4.6mb
AVF     50.07  304 eP     41 09.20   -0.2
        0.7s      14.60nm           5.1mb
BGF     50.46  304 eP     41 12.10   -0.3
MAF     50.74  303 eP     41 14.70    0.1
        0.7s      13.80nm           5.0mb
TCF     50.96  303 eP     41 16.20    0.0
        0.7s      12.15nm           5.0mb
LSF     51.42  304 eP     41 19.30   -0.5
        0.7s      10.45nm           4.9mb
CAF     51.44  302 eP     41 20.40    0.5
        0.9s      11.45nm           4.8mb
RJF     51.70  302 eP     41 22.10    0.2
        0.7s       6.60nm           4.7mb
FLN     52.05  307 eP     41 23.70   -0.7
        1.0s      22.00nm           5.1mb
EKA     52.08  316 Pc     41 24.60    0.1
        0.8s       8.10nm           4.7mb
LPO     52.11  302 eP     41 24.80   -0.2
LFF     52.33  302 eP     41 26.70    0.1
        0.6s       5.40nm           4.7mb
GRR     52.39  307 eP     41 26.20   -0.8
        0.9s      16.40nm           5.0mb
MFF     52.43  304 eP     41 26.70   -0.7
        0.7s       6.60nm           4.7mb
MAT     52.47   69 (P)    41 32.00    4.2X
EPF     53.21  300 eP     41 32.10   -1.2
        0.7s       3.30nm           4.4mb
DAG     54.28  344 eP     41 40.10   -0.5
        0.7s      23.97nm           5.3mb
MBC     66.74    3 ePd    43 06.30    0.8
        0.7s      19.00nm           5.3mb
ANM     69.39   23 e(P)   43 22.20    0.1
BUL     69.74  223 iPc    43 24.40   -0.6
        0.9s       8.40nm           4.9mb
IMA     71.48   18 eP     43 34.70   -0.3
        1.1s      12.40nm           4.9mb
INK     73.29    9 eP     43 46.00    0.6
FBA     73.83   16 eP     43 48.70    0.1
FRB     74.60  343 eP     43 56.00    2.9X
PMR     76.33   19 e(P)   44 03.20    0.3
        0.9s      11.40nm           4.9mb
TOA     76.61   17 e(P)   44 06.10    1.4
YKA     80.65    3 eP     44 26.10   -0.4
        0.7s       4.60nm           4.6mb
ASPA    84.34  125 eP     44 53.50    7.3X
        1.5s       3.90nm           4.4mb
FFC     88.38  356 eP     45 06.00    0.4
        0.7s       6.00nm           5.0mb
MDZ    147.30  265 ePKP   52 02.90    7.5X
     S.D. = 0.8  on  64 of  87 obs.
-----------------------------------------
?  MAR  28, 1991  19h 01m 27.07± 2.68s
   14.152 N ±27.2km   91.199 W ±26.1km
   DEPTH =  44.4 ± 24.0 km
   4.4mb (  3 obs.)
 GUATEMALA                          ( 70)

TPX      1.27  306 iP     01 49.00    0.3
                 iS     02 03.50
SCX      2.92  332 iP     02 19.00    6.9X
                 (S)    02 55.00
OXX      6.07  299 eP     02 57.00    0.2
                 iS     03 57.00
LVVM     7.49  319 (P)    03 13.50   -3.0X
IISM     7.63  310 eP     03 17.50   -1.0
                 iS     04 37.00
IIT      8.36  306 (P)    03 24.00   -4.9X
PPM      8.63  305 iP     03 34.00    1.1
                 (S)    05 20.00
ACX      8.77  289 (P)    03 38.50    4.2X
III      8.98  299 eP     03 36.00   -1.4
                 (S)    05 03.00
MRX     11.04  301 eP     04 06.00    0.6
CMB     35.13  318 eP     08 33.40   14.8X
PNT     42.10  332 eP     09 18.00    1.6
        0.6s       6.00nm           4.5mb
YKA     51.06  346 eP     10 34.70    7.9X
        0.5s       2.60nm           4.5mb

PDCR    58.01  115 eP     11 18.10    0.0
INK     60.52  343 eP     11 33.50   -1.2
MBC     63.86  353 eP     11 56.00   -0.9
EKA     77.39   36 P      13 34.00   15.1X
        1.6s      12.40nm
HFS     85.09   29 ePKP   14 00.00    0.7
        0.4s       0.60nm           4.1mb
CHG    145.75  343 ePKP   21 03.50    0.2
CHTO   145.75  343 iPKP   21 03.50    0.2
        1.0s      10.25nm
KHT    149.66  341 ePKP   21 13.80    4.3X
GBA    150.22   23 PKPc   21 10.00   -0.4
        0.6s       1.10nm
     S.D. = 1.0  on  14 of  22 obs.
-----------------------------------------
*  MAR  28, 1991  19h 08m 03.72± 1.00s
   38.150 N ±10.3km   27.417 E ±16.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)

IZM      0.28  334 iPg    08 09.70    0.2
                 eSg    08 13.70
CIN      0.76  136 eP     08 19.00    0.4
YER      1.22  146 ePn    08 26.20   -0.3
KHL      1.67   83 ePn    08 37.50    4.3X
DST      1.73   33 ePn    08 34.00   -0.1
EZN      1.88  333 ePn    08 36.00   -0.1
KCT      2.22   19 ePn    08 46.00    4.9X
BNT      2.24   10 ePn    08 45.00    3.6X
YLV      2.85   32 ePn    08 56.00    5.9X
     S.D. = 0.4  on   5 of   9 obs.
-----------------------------------------
&  MAR  28, 1991  19h 56m 08.44s
   63.656 N          149.528 W
   DEPTH = 125.8km
 CENTRAL ALASKA                     (  1)
      <AEIC>.

MCK      0 28   74 iP     56 26.08    1.6
                 eS     56 39.72
RND      0.39  129 iP     56 26.31   -0.5
                 eS     56 40.50
TRF      0.40  239 iP     56 26.55   -0.4
BWN      0.52    3 iP     56 27.21   -0.2
HUR      0.68  184 iP     56 28.07   -0.5
                 eS     56 43.31
NEA      0.95   12 iP     56 30.00   -0.7
                 eS     56 46.78
WRH      1.03   37 iP     56 31.13   -0.5
CCB      1.25   36 iP     56 33.22   -0.6
CUT      1.30  195 eP     56 33.78   -0.6
                 eS     56 53.34
RDS      1.32   27 iP     56 34.20   -0.4
                 eS     56 53.20
HDA      1.36   55 iP     56 34.60   -0.4
MDM      1.43   23 iP     56 35.40   -0.4
                 eS     56 54.58
FBA      1.46   30 iP     56 35.70   -0.4
GLM      1.63   34 iP     56 37.68   -0.5
DDM      1.64   84 iP     56 38.19   -0.1
                 eS     57 00.88
GHO      1.91  171 eP     56 40.92   -0.7
SKT      1.92  210 eP     56 40.52   -1.1
                 eS     57 04.72
PAX      1.96  109 eP     56 41.99   -0.2
PWA      2.02  185 eP     56 42.49   -0.4
PLRM     2.08  175 eP     56 42.71   -0.9
SCM      2.09  150 eP     56 43.14   -0.7
SDG      2.14  120 iP     56 43.84   -0.5
TOA      2.19  134 eP     56 44.77   -0.3
SUA      2.27  195 eP     56 46.74    0.6
KNK      2.31  167 iP     56 45.84   -0.7
PMS      2.42  180 iP     56 47.73   -0.3
NCG      2.57  210 eP     56 48.85   -1.1
BGL      2.75  210 eP     56 51.24   -1.1
SPU      2.75  206 eP     56 51.85   -0.4
CKL      2.79  209 eP     56 52.19   -0.7
VLZ      2.94  148 eP     56 53.03   -1.7
SLKM     3.18  186 eP     56 57.21   -0.7
RDT      3.38  205 eP     56 59.95   -0.7
KNIM     3.43  165 eP     56 59.20   -2.0
GLB      3.46  127 eP     57 01.10   -0.6
NCT      3.49  209 eP     57 00.94   -1.3
RDN      3.50  207 eP     57 01.44   -0.9
REF      3.51  207 eP     57 01.79   -0.8
RS2      3.55  207 eP     57 02.62   -0.4
RSO      3.55  207 eP     57 02.16   -0.9

SEW      3.57  179 eP     57 02.07   -1.0
RED      3.59  207 eP     57 02.86   -0.6
        42 obs. associated
-----------------------------------------
*  MAR  28, 1991  20h 29m 26.51± 0.96s
   21.556 N ± 7.4km  121.143 E ±26.5km
   DEPTH =  10.0km  (geophysicist)
   4.0mb (  2 obs.)  3.6Msz (  1 obs.)
 TAIWAN REGION                      (243)

TWG      1.26  357 eP     29 51.10    1.2
                 eS     30 04.70
TWF1     1.79    5 ePc    29 56.80   -0.9
PIP      3.25  189 iPc    30 19.50    0.9
CVP      3.88  170 iPd    30 27.00   -0.6
                 eS     31 13.50
SZP      4.04  189 eP     30 33.00    3.3X
LZH     20.91  318 eP     34 14.50    2.7X
        2.0s      32.00nm           4.3mb
      Z 18s       0.24um            3.6Msz
                 i      34 35.00
GUN     32.57  288 P      36 00.00   -0.7
YKA     85.40   23 eP     42 07.60    2.5X
        0.5s       0.20nm           3.6mb
     S.D. = 1.4  on   5 of   8 obs.
-----------------------------------------
*  MAR  28, 1991  20h 44m 22.11± 0.68s
   18.385 S ± 8.7km  167.944 E ±12.2km
   DEPTH =  10.0km  (geophysicist)
   4.3mb (  1 obs.)
 VANUATU ISLANDS                    (186)

PVC      0.73   29 iPd    44 36.00   -0.5
                 iS     44 45.00
BKM      0.77   22 iPd    44 37.00   -0.1
                 iS     44 47.50
DZM      3.93  201 iPc    45 22.90   -0.9
                 iS     46 06.70
HNR     11.81  318 eP     47 13.00   -0.6
SVO     12.10  318 P      47 18.00    0.4
RMO     19.47  242 iPc    48 53.60    1.5
                 i      49 05.00
ASPA    32.16  255 iPd    50 50.70   -1.7
        1.2s       5.00nm           4.3mb
ABH    144.86  338 ePKP   03 57.94   -3.0X
CDF    146.18  337 ePKP   04 01.50   -1.8
        0.8s       6.70nm
LOR    148.37  339 ePKP   04 06.70   -0.1
        0.9s       7.35nm
LBF    148.58  339 ePKP   04 07.40    0.2
SSF    148.67  339 ePKP   04 08.60    1.4
        0.9s       8.20nm
SMF    148.92  339 ePKP   04 08.80    1.1
        0.8s       4.70nm
AVF    148.96  339 ePKP   04 08.80    1.1
MAF    149.72  340 ePKP   04 11.20    2.3X
        0.7s       3.30nm
TCF    149.78  340 ePKP   04 11.10    2.1X
        1.0s       7.00nm
     S.D. = 1.2  on  13 of  16 obs.
-----------------------------------------
?  MAR  28, 1991  21h 12m 36.98± 1.14s
   35.509 S ±25.6km  112.226 W ±12.4km
   DEPTH =  10.0km  (geophysicist)
   5.0mb (  9 obs.)
 EASTER ISLAND CORDILLERA           (684)

VAH     37.54  293 iP     19 53.80    0.7
        1.2s      35.00nm           5.0mb
TPT     37.69  294 iP     19 55.00    0.7
        1.2s      40.00nm           5.1mb
ARE     40.88   73 eP     20 23.00    1.7
CNCB    43.45   76 Pd     20 45.70    3.1X
LPB     43.51   76 eP     20 46.00    3.1X
        1.2s      31.25nm           5.0mb
                 LR     33 08.00
ZOBO    43.64   76 Pd     20 46.30    2.2
        1.2s      16.89nm           4.7mb
                 S      27 20.00
                 LR     32 30.00
CCH     44.60   78 eP     20 51.00   -0.6
SIV     49.42   80 P      21 28.00   -1.2
BAR     67.96  356 eP     23 38.00   -0.1
PDCR    69.13   91 eP     23 45.50   -0.3
                 e      27 42.50
TPC     69.35  357 eP     23 52.00    5.4X
ANMO    70.30    5 eP     23 51.00   -1.6
```

28d 21h

GSC	70.58	356	eP	23 54.00	-0.2
ISA	71.05	355	eP	23 57.00	0.0
CLC	71.14	355	eP	23 58.00	0.5
PRI	71.72	353	eP	23 59.20	-1.9
PRS	71.98	352	eP	24 03.10	0.6
FRI	72.47	354	eP	24 04.70	-0.6
MHC	73.01	352	eP	24 09.80	1.1
TNP	73.37	356	eP	24 11.50	0.6
	1.0s	3.75nm		4.4mb	
CMB	73.56	353	eP	24 12.10	0.3
PV09	73.69	3	eP	24 12.50	-0.4
WDC	76.31	352	eP	24 27.30	-0.2
BW06	77.95	2	eP	24 35.10	-1.7
	1.1s	21.13nm		5.1mb	
RSSD	79.60	6	iP	24 46.00	0.2
	1.2s	25.51nm		5.1mb	
NEW	83.51	357	eP	25 06.90	1.0
	1.1s	4.94nm		4.6mb	
SES	85.54	1	eP	25 17.00	1.0
FFC	90.30	6	eP	25 39.00	0.2
	0.9s	9.00nm		5.0mb	
KHC	138.55	54	ePKP	32 02.30	-2.1
UPP	139.73	37	iPKP	32 15.10	9.1X
SKO	143.64	65	ePKP	32 09.00	-4.5X
			i	33 37.00	
LOE	144.89	248	ePKP	32 20.00	3.7X
CMP	146.36	60	ePKPd	32 29.00	10.9X
MLR	146.99	59	ePKP	32 22.00	2.8X
			e	35 24.00	
			e	54 32.00	
VRI	147.52	59	ePKP	32 16.50	-3.4X
CHTO	147.84	247	iPKP	32 29.00	7.9X
	1.2s	3.82nm			
KMI	148.24	261	PKPd	32 30.00	8.1X
LZH	150.84	282	ePKP	32 34.50	9.0X
	1.5s	37.00nm			
			i	33 00.00	
BBTK	152.06	71	ePKP	32 35.00	7.8X
GBA	156.52	204	PKPd	32 28.70	-5.0X
	0.7s	12.40nm			
HYB	159.59	211	iPKPc	32 09.40	-27.9X
	1.0s	35.00nm			
POO	162.25	199	ePKP	32 23.50	-16.5X
	S.D. = 1.1	on 26 of 42 obs.			

MAR 28, 1991 21h 21m 23.41± 0.50s
46.944 N ± 7.5km 152.173 E ± 8.4km
DEPTH = 33.0km (normal)
5.0mb (45 obs.) 4.4Msz (4 obs.)
KURIL ISLANDS (221)

AOMJ	10.65	237	eP	23 56.80	0.1
			eS	25 45.60	
OFUJ	10.99	228	iPd	24 00.30	-1.0
			eS	25 52.70	
YAMJ	12.51	230	P	24 21.60	-0.3
			eS	26 32.70	
MAT	14.70	230	iPd	24 51.20	0.6
	0.7s	58.22nm		5.1mb	
			eS	27 44.00	
MDJ	15.92	270	eP	25 10.00	3.6X
	1.0s	70.00nm		4.8mb	
CN2	19.00	270	iPd	25 43.40	-1.4
SNY	21.00	266	iPd	26 06.80	0.6
	0.8s	30.00nm		4.7mb	
DL2	23.65	261	Pc	26 33.50	1.1
	1.0s	100.00nm		5.3mb	
BJI	26.84	268	eP	27 03.00	0.6
	1.0s	44.00nm		5.0mb	
SSE	28.57	247	Pc	27 19.00	0.7
	0.8s	20.00nm		4.9mb	
NJ2	29.44	252	Pc	27 26.50	0.4
HHC	29.64	273	Pc	27 28.40	0.5
	0.9s	100.00nm		5.6mb	
TIY	30.51	267	iPc	27 36.60	1.0
	0.8s	40.00nm		5.3mb	
WHN	33.36	254	Pc	28 00.20	-0.3
XAN	34.89	264	P	28 13.50	-0.3
LZH	37.24	271	iPc	28 34.50	0.8
	1.5s	140.00nm		5.6mb	
GTA	38.30	278	P	28 43.20	0.6
	1.0s	30.00nm		5.1mb	
GYA	41.13	256	iPc	29 06.20	0.2
INK	41.83	32	eP	29 14.00	2.8X
WMQ	44.25	291	P	29 31.00	-0.3
	Z 28s	0.40um		4.2MszX	
KMI	44.65	259	Pd	29 35.00	0.1

LSA	49.62	272	Pc	30 15.10	1.0
YKA	51.15	37	eP	30 25.60	0.8
	0.8s	1.00nm		3.8mb X	
CHG	51.54	256	iPc	30 28.00	-0.2
	1.0s	39.75nm		5.3mb	
SHL	51.73	268	iP	30 29.10	-0.8
			eS	33 09.00	
GUN	54.34	274	P	30 49.10	-0.3
KHT	54.68	253	iPc	30 51.00	-0.5
KKN	54.83	275	P	30 52.60	-0.2
PKI	54.88	274	P	30 53.00	-0.4
DMN	55.06	274	P	30 54.40	-0.2
GKN	55.13	275	P	30 54.50	-0.5
DAG	56.43	358	eP	31 02.90	-0.6
SOD	58.84	338	iP	31 19.80	-0.7
NDI	59.73	281	iP	31 26.50	-0.7
	0.8s	52.24nm		5.7mb	
KAF	62.99	335	iP	31 47.00	-1.7
	0.5s	5.20nm		4.9mb	
NUR	64.76	334	iP	31 58.60	-1.6
	0.5s	8.10nm		5.1mb	
FRB	65.08	19	eP	32 01.00	-1.3
QUE	65.56	289	eP	32 05.50	-0.6
NB2	67.83	341	P	32 18.80	-1.1
	0.7s	11.70nm		5.1mb	
HFS	68.05	339	eP	32 19.50	-1.7
	0.5s	18.30nm		5.4mb	
KOD	72.16	266	eP	32 46.20	-1.0
ASPA	72.19	198	iPc	32 45.70	-1.1
KRA	74.93	330	iPd	33 02.50	0.1
KSP	75.44	333	iPd	33 05.00	-0.4
SPC	75.56	330	eP	33 06.50	0.2
EKA	76.00	346	Pd	33 08.90	0.4
	0.4s	2.30nm		4.5mb	
CLL	76.02	335	iPc	33 08.10	-0.5
	0.8s	30.00nm		5.3mb	
BRG	76.13	334	eP	33 08.60	-0.7
	1.1s	12.00nm		4.8mb	
PRU	76 73	333	P	33 12.60	0.0
	0.9s	7.00nm		4.7mb	
MOX	77.01	335	eP	33 14.00	-0.2
WTS	77.06	339	iPd	33 14.90	0.5
	0.8s	16.00nm		5.1mb	
BUD	77.44	330	e(P)	33 17.00	0.4
ZST	77.48	331	iP	33 17.30	0.5
KHC	77.78	334	iP	33 18.60	0.1
	1.0s	8.50nm		4.7mb	
GRF	77.98	335	ePc	33 20.00	0.4
	0.8s	28.00nm		5.3mb	
	Z 22s	0.20um		4.4Msz	
ENN	78.41	339	eP	33 22.00	0.1
	1.0s	19.00nm		5.1mb	
MEM	78.54	339	P	33 22.40	-0.1
KBA	79.68	333	iPc	33 29.30	0.2
	0.8s	16.80nm		5.1mb	
			i	33 33.40	
CDF	80.23	337	eP	33 31.20	-0.7
	1.2s	14.90nm		4.9mb	
FEL	80.52	336	eP	33 33.64	0.1
HAU	80.85	338	eP	33 34.80	-0.3
	1.0s	8.00nm		4.7mb	
	Z 22s	0.15um		4.3Msz	
BSF	80.89	337	eP	33 34.60	-0.8
	0.9s	6.55nm		4.6mb	
HRI	81.83	311	iPd	33 41.60	1.1
LOR	82.17	339	eP	33 41.80	-0.2
	0.6s	5.85nm		4.8mb	
	Z 21s	0.55um		4.9Msz	
GRR	82.19	342	eP	33 42.30	0.3
	0.6s	7.20nm		4.9mb	
OHR	82.25	325	eP	33 41.70	-0.8
LBF	82.40	339	eP	33 42.90	-0.3
	0.8s	6.05nm		4.7mb	
SSF	82.45	339	eP	33 43.20	-0.2
	0.9s	7.35nm		4.7mb	
LPF	82.57	342	eP	33 43.90	-0.1
AVF	82.74	339	eP	33 45.00	0.1
	1.2s	19.35nm		5.1mb	
SMF	82.75	339	eP	33 44.90	-0.1
	1.0s	11.00nm		4.9mb	
ZNT	83.00	311	eP	33 47.00	0.4
LPL	83.04	336	eP	33 47.40	0.6
	0.7s	3.85nm		4.6mb	
LPG	83.05	336	eP	33 47.60	0.6
	0.8s	8.05nm		4.9mb	
BGF	83.08	339	eP	33 46.70	0.0
	0.5s	3.30nm		4.7mb	

MAF	83.46	339	eP	33 49.20	0.5
	0.8s	10.05nm		5.0mb	
MFF	83.73	341	eP	33 50.80	0.8
	0.7s	6.60nm		4.9mb	
SBF	84.36	335	eP	33 53.90	0.6
	0.7s	13.25nm		5.2mb	
RJF	84.58	340	eP	33 55.80	1.5
	0.8s	6.70nm		4.9mb	
	Z 20s	0.17um		4.4Msz	
RMN	84.59	310	iPd	33 55.10	0.4
CAF	84.80	339	eP	33 56.70	1.2
	0.7s	5.50nm		4.9mb	
PGF	85.10	334	eP	33 58.50	1.4
	1.4s	30.50nm		5.3mb	
LFF	85.10	340	eP	33 58.00	1.1
	0.6s	5.40nm		4.9mb	
LPO	85.24	340	eP	33 59.30	1.7
	0.7s	5.50nm		4.9mb	
	S.D. = 0.7	on 82 of 84 obs.			

MAR 28, 1991 22h 53m 28.26± 0.74s
36.568 N ± 3.5km 12.181 W ± 7.2km
DEPTH = 33.0km (normal)
4.3mb (3 obs.)
NORTH ATLANTIC OCEAN (402)
MD 4.3 (RBA). mbLg 3.9 (MDD).

EVAL	4.46	75	iP	54 36.56	1.2
			eS	55 23.50	
RBA	5.06	119	iPn	54 43.00	-0.8
			iSn	55 34.00	
AVE	5.10	128	iPnc	54 44.50	0.2
			iSn	55 36.00	
PTO	5.35	30	iPnd	54 49.00	1.2
			iSn	55 44.80	
EJIF	5.41	89	ePn	54 50.30	1.6
			iSn	55 47.80	
EPRU	5.59	84	iPnc	54 52.30	0.9
			iSn	55 52.50	
EHOR	5.68	75	iPnc	54 53.00	0.5
			iSn	55 52.90	
EPLA	5.93	52	iPnc	54 56.70	0.5
			iSn	55 57.30	
EZAM	6.19	25	ePn	54 59.60	-0.2
			iSn	56 04.00	
MAL	6.25	86	iPnd	55 02.20	1.6
			iSg	56 07.50	
IFR	6.54	116	iPn	55 04.00	-0.8
			iSn	56 11.00	
EBAN	6.87	74	iPnd	55 09.30	-0.1
			iSn	56 21.40	
STS	6.90	23	ePn	55 10.20	0.5
			iSn	56 21.80	
ECOG	6.94	82	iPnd	55 10.60	0.3
			iSn	56 24.10	
AFC	6.95	82	iPnc	55 10.90	0.3
			iSn	56 22.70	
TIO	6.96	143	Pn	55 09.50	-1.2
			iSn	56 19.50	
ERUA	7.00	32	iPnd	55 11.80	0.7
			iSn	56 24.70	
TOL	7.21	60	ePn	55 14.00	0.0
			ePb	55 29.00	
			ePg	55 48.00	
			iSn	56 28.50	
			eSb	56 44.00	
			iSg	56 58.50	
GUD	7.49	55	iPnd	55 17.80	-0.2
			iSn	56 35.90	
EMON	7.80	27	iPnc	55 22.20	-0.1
			iSn	56 42.60	
EVIA	7.95	72	iPnd	55 23.50	-1.1
			iSn	56 47.10	
ENIJ	8.01	84	iPnc	55 25.00	-0.2
			iSn	56 49.10	
EALH	8.68	78	ePn	55 34.20	-0.3
			iSn	57 05.70	
ETOR	8.98	59	ePn	55 37.70	-1.1
			iSn	57 10.70	
ECHE	9.34	68	ePn	55 43.50	-0.2
			iSn	57 22.10	
ACU	9.55	75	ePn	55 45.70	-0.8
			iSn	57 26.90	
ECRI	9.59	48	iPnc	55 47.00	-0.2
EROQ	10.72	63	ePn	56 01.70	-0.8
			iSn	57 54.40	
EPF	11.59	52	Pn	56 14.30	-0.1

			Sn	58	13.60	
LFF	12.87	45	Pn	56	31.20	-0.2
ETER	12.95	59	ePn	56	32.50	-0.1
LPO	12.98	47	Pn	56	32.00	-0.9
			Sn	58	46.00	
MFF	13.46	38	Pn	56	39.00	-0.2
RJF	13.53	46	Pn	56	39.20	-0.9
CAF	13.64	48	Pn	56	40.40	-1.2
LPF	14.09	32	Pn	56	47.00	-0.5
			Sn	59	10.00	
LSF	14.10	42	Pn	56	47.40	-0.3
			Sn	59	12.50	
GRR	14.45	32	Pn	56	52.60	0.4
TCF	14.50	44	Pn	56	52.40	-0.5
MAF	14.66	44	Pn	56	54.40	-0.6
FLN	14.90	31	Pn	56	58.00	0.0
LDF	14.92	33	Pn	56	59.00	0.7
BGF	15.01	44	Pn	56	59.00	-0.6
			Sn	59	32.40	
AVF	15.43	44	Pn	57	05.20	0.2
SMF	15.62	45	Pn	57	07.60	0.1
SSF	15.68	43	Pn	57	08.40	0.2
LRG	15.77	58	Pn	57	11.60	2.2
LBF	15.89	44	Pn	57	11.20	0.2
LOR	15.99	43	Pn	57	12.00	-0.3
ECP	16.14	13	eP	57	17.60	3.5X
			eS	59	59.00	
ECB	16.25	12	eP	57	18.70	3.3X
DOU	18.16	37	P	57	43.60	4.3X
	0.4s		10.00nm			4.3mb
			S	00	47.80	
EKA	19.76	15	P	58	03.00	4.9X
	1.1s		6.60nm			3.9mb
GRF	21.43	45	eP	58	20.60	5.2X
KHC	22.55	48	P	58	30.60	4.0X
PRU	23.48	47	eP	58	39.20	3.6X
ZST	24.40	52	eP	58	47.70	3.1X
			e	06	37.70	
LKO	27.56	166	P	59	14.66	0.4
	0.5s		7.50nm			4.6mb
KIC	30.83	165	P	59	44.00	0.6
	S.D. = 0.8		on	51	of 59	obs.

& MAR 29, 1991 00h 03m 32.80s
19.311 N 155.221 W
DEPTH = 9.5km
3.5mb (1 obs.)
HAWAII (613)
<HVO-P>. ML 3.9 (HVO). Felt (III) at Hilo, Mountainview and Volcano.

PWH	0.03	187	iPc	03	34.42	-0.3
			eS	03	36.02	
PUH	0.07	2	iPd	03	34.93	-0.2
			eS	03	36.61	
KNH	0.07	290	iPd	03	35.09	-0.1
AHA	0.07	326	iPd	03	35.19	-0.1
			eS	03	37.09	
MKA	0.08	43	iPc	03	35.13	-0.1
HLP	0.09	262	iPd	03	35.43	0.1
KAE	0.09	105	iPc	03	35.44	0.2
OUT	0.10	324	iPd	03	35.40	-0.1
ESR	0.10	350	iPd	03	35.54	0.0
RIM	0.10	329	iPd	03	35.54	0.0
NPH	0.12	330	iPd	03	35.65	-0.2
CPK	0.13	310	iPd	03	35.84	-0.2
UWE	0.13	329	iP	03	35.90	-0.1
			iS	03	38.20	
DES	0.16	279	iPd	03	36.30	-0.2
WHA	0.16	83	iPc	03	36.51	0.0
HTC	0.18	247	iPd	03	37.17	0.3
MLX	0.19	322	iPd	03	36.87	-0.2
KFH	0.22	300	iPd	03	37.62	0.1
AIN	0.23	286	iPd	03	37.90	0.0
MLH	0.24	319	iPd	03	37.94	-0.1
MVH	0.24	38	iPc	03	37.88	-0.1
HUL	0.25	65	iPc	03	37.79	-0.4
WOH	0.27	257	iPd	03	38.50	0.0
PPL	0.28	237	ePc	03	38.60	0.0
PLL	0.32	314	iPd	03	39.05	-0.4
TRH	0.33	289	iPd	03	39.53	-0.2
HBH	0.38	54	ePc	03	40.14	-0.3
POH	0.38	67	iPc	03	40.35	-0.1
WIH	0.38	295	iPd	03	40.19	-0.5
KHU	0.38	261	iPd	03	40.09	-0.6
HMH	0.38	320	iPd	03	40.30	-0.5
SWH	0.39	292	iPd	03	40.14	-0.8
MWH	0.40	296	iPd	03	40.44	-0.5
KPO	0.40	62	iPc	03	40.58	-0.5
WOB	0.41	304	iPd	03	40.68	-0.6
DAH	0.42	276	iPd	03	40.59	-1.0
HIL	0.43	17	iPc	03	40.60	-0.9
			iS	03	47.20	
NGH	0.43	25	iPc	03	41.44	-0.1
HPU	0.52	334	ePc	03	42.39	-1.0
SPT	0.53	232	ePc	03	42.22	-1.4
CPH	0.68	285	ePc	03	44.78	-1.6
WKH	0.68	323	iPd	03	44.82	-1.7
HUH	0.69	303	ePc	03	45.24	-1.5
YKA	51.39	23	eP	12	37.60	-2.1
	1.0s		0.70nm			3.5mb
	44 obs. associated					

% MAR 29, 1991 01h 24m 12.99± 0.61s
44.247 N ± 6.4km 7.487 E ± 4.5km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.6 (GEN).

ENR	0.05	247	P	24	14.98	-0.3
			S	24	16.32	
STV	0.12	269	P	24	16.16	0.1
			S	24	18.37	
ROB	0.28	80	P	24	19.39	0.5
			S	24	24.76	
PZZ	0.38	313	P	24	20.68	-0.1
SBF	0.39	186	Pg	24	21.30	0.4
			Sg	24	26.80	
IMI	0.44	139	P	24	21.61	-0.5
FIN	0.52	94	P	24	23.26	-0.3
	S.D. = 0.4		on	7	of 7	obs.

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* MAR 29, 1991 02h 20m 26.51± 3.22s
36.185 N ±23.1km 70.577 E ±10.8km
DEPTH = 97.0 ± 32.6 km
4.3mb (3 obs.)
HINDU KUSH REGION (718)

QUE	6.71	208	eP	22	04.10	-0.2
			eS	23	14.60	
NDI	9.35	141	iPd	22	41.00	0.9
			eS	24	17.00	
GKN	14.43	120	P	23	47.20	-0.2
DMN	15.00	121	P	23	54.38	-0.4
	0.4s		13.00nm			4.5mb
KKN	15.01	120	P	23	54.24	-0.6
PKI	15.23	120	P	23	56.86	-1.0
GUN	15.36	118	P	24	00.86	1.4
	0.3s		9.00nm			4.5mb
GBA	23.31	163	Pd	25	26.60	0.0
	0.4s		1.10nm			3.6mb
PGP	50.34	103	eP	29	35.50	20.0X
YKA	81.58	2	eP	32	34.40	0.2
	0.5s		0.10nm			2.9mb X
	S.D. = 0.9		on	9	of 10	obs.

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* MAR 29, 1991 03h 40m 21.67± 1.15s
51.703 N ± 6.3km 16.364 E ±12.0km
DEPTH = 10.0km (geophysicist)
POLAND (548)
ML 3.4 (VKA), 3.4 (GRF), 3.3 (KBA).

KSP	0.86	183	iP	40	38.50	0.2
			i	40	41.00	
			iS	40	48.00	
BRG	1.73	242	iPgc	40	53.10	1.2
			iSg	41	12.50	
PRU	2.07	215	iPn	40	56.60	-0.3
			iPg	40	58.60	
			Sn	41	15.70	
			Sg	41	22.20	
CLL	2.14	261	iPn	40	57.80	0.0
			iPg	41	00.30	
			iSg	41	27.00	
KRA	2.80	125	eP	41	20.40	13.1X
			iS	41	59.20	
KHC	3.13	216	iPn	41	12.00	0.0
			iPg	41	18.30	
			Sn	41	48.00	
			Sg	41	58.30	
HOF	3.16	246	iPnc	41	12.00	-0.3
MOX	3.17	252	iPg	41	21.00	8.5X
			iSg	42	00.00	
WET	3.39	222	iPnc	41	15.50	-0.2
VKA	3.44	181	iPgc	41	26.80	10.4X
			iSg	42	10.80	
SPC	3.53	134	eP	41	32.00	14.1X
			e	42	07.30	
ZST	3.54	172	eP	42	10.90	53.1X
GRF	3.84	240	ePn	41	21.70	-0.4
			e(Pg)	41	35.00	
			eSg	42	19.20	
KBA	5.03	204	ePn	41	39.00	-0.1
			i	42	52.10	
			iSg	42	56.60	
			i	43	03.90	
HFS	8.58	351	eP	42	38.10	9.3X
	0.4s		1.10nm			4.5mb
NRA0	9.44	345	Pn	42	40.60	0.0
			Sn	44	20.00	
			Lg	45	11.80	
	S.D. = 0.5		on	10	of 16	obs.

? MAR 29, 1991 03h 54m 39.30± 5.20s
39.492 N ±39.5km 16.474 E ±13.6km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

TDS	0.20	328	P	54	43.70	0.1
			eSg	54	46.20	
ORI	0.57	358	P	54	50.90	0.0
			eSg	54	55.80	
MGR	0.96	313	P	54	57.00	-0.5
			eSg	55	11.60	
SGO	1.39	320	P	55	05.20	0.5
			eSg	55	23.00	
BRT	1.49	22	P	55	06.00	-0.1
			eSn	55	23.00	
	S.D. = 0.5		on	5	of 5	obs.

MAR 29, 1991 04h 35m 27.84± 0.74s
39.452 N ± 7.5km 20.492 E ± 6.8km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
MD 3.0 (ATH).

IGT	0.15	303	ePc	35	30.70	-0.6
			eS	35	34.60	
KEK	0.60	296	iPbc	35	40.00	0.1
VLS	1.28	177	ePb	35	52.00	0.5
KZN	1.30	49	ePb	35	51.10	-0.9
AGG	1.49	106	ePc	35	53.80	-0.9
			eS	36	17.70	
FNA	1.49	27	ePc	35	55.30	0.6
GRG	2.10	44	ePc	36	04.70	1.2
			eS	36	36.70	
	S.D. = 1.0		on	7	of 7	obs.

& MAR 29, 1991 04h 47m 21.07s
60.981 N 151.932 W
DEPTH = 83.1km
2.7mb (1 obs.)
KENAI PENINSULA, ALASKA (14)
<AEIC>.

SPU	0.21	344	iPd	47	32.98	1.1
			eS	47	42.22	
CKL	0.29	318	iPd	47	33.38	-0.6
CRP	0.31	339	iPd	47	33.73	-0.4
			eS	47	43.45	
BGL	0.36	322	iPd	47	33.93	-0.5
			eS	47	44.15	
NKA	0.42	125	iPd	47	35.98	1.4
NCG	0.44	346	iPd	47	34.48	-0.5
			eS	47	45.09	
RDT	0.47	210	iPd	47	34.46	-0.7
			eS	47	45.46	
RDN	0.62	221	iPd	47	35.73	-0.8
			eS	47	47.70	
REF	0.62	218	iPd	47	35.94	-0.7
			eS	47	48.33	
NCT	0.65	230	iPd	47	36.07	-0.7
			S	47	48.08	
RS2	0.66	218	iPc	47	36.37	-0.7
			eS	47	49.12	
RSO	0.66	218	iPd	47	36.34	-0.7
			eS	47	48.45	
RED	0.70	217	iPd	47	36.58	-0.7
			eS	47	48.82	

29d 04h

SUA	0.75	49	iPd	47	37.49	-0.4
			eS	47	50.84	
SLKM	0.97	119	iPc	47	39.65	-0.5
			S	47	54.73	
NNL	0.99	161	ePd	47	41.04	0.6
SKT	1.02	11	iPc	47	39.90	-1.0
			eS	47	54.54	
PMS	1.18	76	ePc	47	42.44	-0.4
			eS	47	58.84	
PWA	1.20	55	ePd	47	42.74	-0.2
			eS	47	59.33	
BRLK	1.33	156	eP	47	43.72	-1.0
			S	48	02.06	
PLRM	1.49	64	ePc	47	45.20	-1.5
			eS	48	05.11	
PMR	1.49	64	eP	47	45.00	-1.7
CNPM	1.50	166	iPc	47	46.21	-0.7
			eS	48	05.95	
SEW	1.51	125	eP	47	45.43	-1.6
			S	48	06.23	
XLV	1.54	176	ePc	47	46.64	-0.7
CUT	1.63	28	eP	47	48.05	-0.6
			eS	48	08.34	
GHO	1.65	60	iPd	47	47.71	-1.3
			eS	48	07.75	
KNK	1.74	74	iPc	47	48.50	-1.6
			eS	48	09.86	
SVW	1.80	276	iPc	47	49.21	-1.7
			eS	48	11.35	
AUI	1.81	205	eP	47	51.29	0.2
			eS	48	13.05	
KNIM	2.16	105	ePc	47	52.58	-3.2
			eS	48	18.15	
MCNL	2.17	215	eP	47	55.38	-0.5
HUR	2.28	27	eP	47	57.47	0.1
MTU	2.34	113	iPc	47	56.07	-2.2
			eS	48	23.33	
GLI	2.36	90	iPc	47	55.19	-3.4
SYI	2.39	186	ePc	47	57.94	-1.0
TRF	2.60	17	eP	48	00.62	-1.3
VZW	2.62	86	eP	47	59.22	-2.9
VLZ	2.73	84	eP	48	00.71	-2.8
TTA	2.75	317	eP	48	02.00	-1.9
RND	2.83	29	eP	48	03.68	-1.4
TOA	2.98	65	eP	48	05.40	-1.7
MCK	3.09	26	eP	48	08.43	-0.2
TZL	3.30	68	eP	48	09.70	-1.7
BWN	3.40	19	eP	48	12.41	-0.4
SDG	3.41	60	eP	48	11.70	-1.3
PAX	3.65	54	eP	48	14.67	-1.7
NEA	3.84	19	eP	48	17.29	-1.7
WRH	3.92	25	eP	48	17.61	-2.5
GLB	3.96	80	eP	48	17.57	-3.1
DDM	3.99	42	eP	48	20.93	-0.2
HDA	4.13	32	eP	48	21.23	-1.8
CCB	4.14	25	eP	48	20.27	-2.9
RDS	4.23	23	eP	48	23.20	-1.3
MDM	4.34	21	eP	48	23.48	-2.5
FBA	4.36	24	eP	48	24.60	-1.7
IMA	5.17	352	eP	48	34.80	-2.8
YKA	17.58	69	eP	51	18.90	-2.8
	0.4s		0.20nm			2.7mb
	58 obs. associated					

MAR 29, 1991 05h 50m 47.42± 0.49s
28.772 S ± 5.0km 67.230 W ± 8.9km
DEPTH = 142.6 ± 8.1 km
4.6mb (4 obs.)
LA RIOJA PROVINCE, ARGENTINA (138)

RTLL	2.77	203	iPd	51	32.70	0.6
			eS	52	05.30	
CFA	2.96	197	iPd	51	35.10	0.5
			eS	52	10.10	
ZON	3.04	204	iPc	51	37.20	1.6
			eS	52	10.20	
TCA	3.43	139	iPd	51	41.00	0.2
SLA	4.32	21	iPc	51	54.20	1.6
MDZ	4.33	198	iP	51	53.10	0.4
			i	52	05.70	
			i(S)	52	32.10	
JACH	4.85	216	iP	52	00.50	0.8
PEL	5.27	213	iPc	52	04.10	-1.2
PCH	5.59	209	eP	52	09.20	-0.4
ANT	5.80	330	e(P)	52	14.00	1.7
TACH	5.81	212	eP	52	11.00	-1.5
LCCH	5.98	217	iPc	52	12.50	-2.3
LNV	6.28	214	eP	52	15.20	-3.7X
CCH	11.38	5	P	53	25.60	-1.5
CNCB	11.93	357	P	53	34.50	0.0
LPB	12.21	356	P	53	38.50	0.5
ZOBO	12.47	356	P	53	40.70	-0.9
	1.0s		25.50nm			4.7mb
			i	53	51.00	
SIV	13.93	25	P	53	58.00	-1.9
VAO	19.11	77	eP	55	01.40	-0.4
BMA	21.63	79	eP	55	28.40	1.1
BAO	22.05	58	ePd	55	30.50	-1.0
PDCR	30.75	64	(P)	56	50.00	-1.3
KIC	69.49	70	P	01	45.20	0.6
	0.9s		8.00nm			4.5mb
LKO	70.58	67	P	01	49.96	0.7
	0.8s		10.50nm			4.7mb
YKA	98.51	340	eP	04	11.20	1.1
	0.7s		0.30nm			3.9mb
WB2	127.27	206	iPKPd	09	38.20	1.1
	0.6s		7.90nm			
WRA	127.28	206	PKP	09	37.00	-0.1
	0.6s		6.60nm			
GBA	143.93	107	PKP	10	08.00	0.0
HYB	146.67	102	ePKP	10	16.00	3.4X
	S.D. = 1.2		on 27 of 29 obs.			

• MAR 29, 1991 05h 56m 14.14± 1.87s
16.905 N ±10.4km 60.459 W ±15.5km
DEPTH = 30.0 ± 4.8 km
LEEWARD ISLANDS (92)
ML 3.3 (FDF).

DEG	0.82	224	ePd	56	29.76	0.1
			S	56	37.90	
SFG	0.96	228	eP	56	30.10	-1.4
SEG	1.12	244	iPc	56	34.67	0.9
			S	56	46.70	
BPA	1.34	276	eP	56	36.73	-0.3
DOG	1.41	232	eP	56	38.46	0.5
			S	56	54.40	
PAG	1.46	234	ePc	56	39.20	0.5
			S	56	56.00	
CPB	1.50	299	eP	56	39.28	0.1
BBL	1.69	216	ePd	56	41.99	0.0
			S	57	01.10	
MGH	1.69	264	eP	56	41.74	-0.3
			S	57	00.70	
FDF	2.26	197	iPd	56	49.93	-0.3
			S	57	14.80	
MVM	2.37	190	iPd	56	52.09	0.2
			S	57	19.10	
BIM	2.45	194	iPd	56	52.94	0.0
			S	57	20.90	
SLW	2.91	189	eP	56	59.33	0.0
			eS	57	32.40	
SLB	3.11	190	eP	57	02.72	0.3
			eS	57	38.40	
SVV	3.64	192	eP	57	09.86	0.0
			eS	57	50.85	
FCV	3.80	192	eP	57	11.86	-0.2
	S.D. = 0.6		on 16 of 16 obs.			

& MAR 29, 1991 06h 42m 22.48s
61.007 N 147.228 W
DEPTH = 20.6km
SOUTHERN ALASKA (2)
<AEIC>.

GLI	0.14	153	iPd	42	26.61	-0.4
			eS	42	30.65	
VZW	0.33	81	iPc	42	29.35	-0.4
			eS	42	34.85	
VLZ	0.45	74	iPc	42	30.97	-0.7
			S	42	37.86	
KNIM	0.71	201	ePd	42	33.51	-2.5
HIN	0.71	149	iPc	42	34.76	-1.3
			eS	42	45.44	
KNK	0.72	305	iPc	42	35.17	-1.1
			eS	42	45.58	
KLU	0.80	52	iPc	42	36.56	-1.1
CVA	0.86	122	ePc	42	37.44	-1.1
MTU	1.04	192	ePd	42	39.80	-1.9
			eS	42	53.65	
PLRM	1.09	303	iPc	42	40.69	-1.8
			S	42	55.13	
SGAM	1.11	116	iPc	42	41.41	-1.5
			S	42	55.72	
GHO	1.12	314	iPc	42	41.58	-1.5
			eS	42	56.78	
PMS	1.16	283	iPc	42	41.64	-1.9
			eS	42	56.60	
TOA	1.21	24	eP	42	44.74	0.4
TZL	1.35	39	iPd	42	46.34	0.1
RAGM	1.40	115	eP	42	46.22	-0.8
SEW	1.42	231	eP	42	44.90	-2.3
			eS	43	02.16	
PWA	1.43	298	ePc	42	46.18	-1.2
			eS	43	05.63	
SLKM	1.55	252	iPc	42	47.17	-2.0
HMT	1.61	113	eP	42	48.33	-1.6
			S	43	09.17	
GLB	1.71	74	iPc	42	50.68	-0.8
			eS	43	12.81	
SDG	1.72	27	eP	42	51.58	0.0
			eS	43	13.12	
SUA	1.76	287	ePc	42	51.01	-1.2
CUT	2.02	315	iPd	42	55.55	-0.3
PAX	2.14	22	eP	42	57.83	0.1
TGL	2.17	95	eP	42	56.57	-1.5
BRLK	2.20	237	iPd	42	55.97	-2.6
WAX	2.22	103	eP	42	56.83	-2.0
NNL	2.23	246	eP	42	57.49	-1.5
HUR	2.28	331	eP	42	59.72	0.1
SKT	2.28	297	iPc	42	58.00	-1.7
SPU	2.35	276	eP	42	58.14	-2.5
BALM	2.38	87	ePc	42	59.38	-1.7
CRP	2.40	278	eP	42	59.75	-1.8
NCG	2.42	282	eP	42	59.73	-1.9
CKL	2.49	277	eP	43	00.39	-2.3
CNPM	2.49	235	eP	43	00.31	-2.3
BGL	2.52	278	eP	43	00.73	-2.4
RND	2.53	343	eP	43	02.90	-0.3
RDT	2.58	263	eP	43	01.01	-2.9
REF	2.74	261	eP	43	03.63	-2.7
RDN	2.76	262	eP	43	03.34	-3.2
	42 obs. associated					

• MAR 29, 1991 06h 51m 39.15± 0.68s
38.163 N ±18.6km 72.182 E ±20.0km
DEPTH = 33.0km (normal)
4.0mb (5 obs.)
TAJIK SSR (715)

GKN	14.53	131	P	55	04.72	0.2
KKN	15.08	129	P	55	11.56	-0.1
DMN	15.10	130	P	55	12.64	0.6
	0.3s		10.00nm			4.5mb
PKI	15.31	130	P	55	14.92	0.1
	0.5s		8.00nm			4.2mb
GUN	15.36	128	P	55	15.38	-0.1
KOD	28.21	169	eP	57	30.60	-0.7
HFS	42.36	321	eP	59	32.10	0.7
	0.4s		1.90nm			4.2mb
NB2	43.64	322	P	59	42.50	0.6
	0.6s		0.70nm			3.6mb
YKA	79.54	3	eP	03	42.30	-1.4
	0.6s		0.30nm			3.5mb
	S.D. = 0.8		on 9 of 9 obs.			

MAR 29, 1991 07h 09m 20.48± 0.58s
46.455 N ± 4.7km 2.617 E ± 4.3km
DEPTH = 10.6 ± 5.2 km
FRANCE (538)
ML 3.0 (LDG). MD 2.7 (STR).

BGF	0.19	57	Pg	09	24.90	0.2
			Sg	09	27.70	
MAF	0.24	189	Pg	09	25.50	-0.1
			Sg	09	28.90	
TCF	0.33	239	Pg	09	26.50	-0.8
			Sg	09	30.60	
AGO	0.54	138	Pg	09	31.24	-0.1
			Sg	09	38.75	
AVF	0.61	56	Pg	09	32.30	-0.4
			Sg	09	40.20	
PYM	0.76	159	Pg	09	35.15	-0.1
			Sg	09	45.43	
LSF	0.78	255	Pg	09	34.60	-1.0
			Sg	09	44.00	
PLDF	0.85	125	Pg	09	37.50	0.6
			Sg	09	48.03	
SSF	0.86	45	Pg	09	36.60	-0.4
			Sg	09	48.00	
SMF	0.87	77	Pg	09	37.00	-0.1

			Sg	09	48.60	
L8F	1.07	60	Pg	09	41.00	0.3
			Sg	09	54.60	
LOR	1.18	46	Pg	09	42.20	-0.2
			Sg	09	57.20	
LBL	1.30	160	Pg	09	44.97	0.5
			Sg	09	59.64	
RJF	1.38	214	Pg	09	45.80	0.0
			Sg	10	03.60	
CAF	1.58	194	Pn	09	47.30	-1.2
			Pg	09	50.00	
			Sg	10	09.60	
MFF	1.91	275	Pg	09	55.20	1.9
			Sg	10	18.50	
LFF	2.01	222	Pg	09	57.70	3.0X
			Sg	10	23.40	
LPO	2.04	210	Pg	09	58.70	3.5X
			Sg	10	23.80	
HAU	2.98	57	Pg	10	16.30	7.7X
BSF	3.16	63	Pg	10	18.40	7.1X
			Sg	10	59.90	
CDF	3.72	57	Pn	10	17.20	-2.0
			Pg	10	29.00	

S.D. = 0.9 on 17 of 21 obs.

? MAR 29, 1991 07h 11m 49.54± 1.07s
46.471 N ±12.1km 2.565 E ± 8.5km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 1.7 (LDG).

BGF	0.21	66	Pg	11	54.20	0.0
			Sg	11	57.00	
MAF	0.25	180	Pg	11	54.80	-0.1
			Sg	11	58.20	
TCF	0.31	233	Pg	11	56.10	0.2
			Sg	12	00.20	
LSF	0.75	253	Pg	12	04.10	-0.1

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

MAR 29, 1991 07h 48m 25.84± 0.57s
56.841 N ± 5.5km 152.964 W ± 4.8km
DEPTH = 10.0km (geophysicist)
4.6mb (4 obs.)
KODIAK ISLAND REGION (13)
ML 4.2 (PMR).

SYI	1.80	10	ePc	48	58.17	1.0
			eS	49	24.14	
MCNL	2.46	343	ePc	49	07.36	0.7
			eS	49	40.04	
AUI	2.51	355	ePc	49	08.64	1.3
			eS	49	41.91	
AUH	2.54	354	eP	49	09.48	1.6
XLV	2.70	14	ePc	49	11.69	1.6
CNPM	2.84	18	iPc	49	13.30	1.2
BRLK	3.13	20	ePc	49	16.84	0.7
NNL	3.33	15	eP	49	20.20	1.2
RED	3.59	2	ePc	49	22.90	0.1
RSO	3.63	2	eP	49	23.34	-0.2
RS2	3.64	2	eP	49	23.91	0.4
REF	3.66	2	ePc	49	24.41	0.5
RDN	3.69	2	ePc	49	24.53	0.3
NCT	3.73	0	ePc	49	24.98	0.1
RDT	3.76	4	ePc	49	25.10	0.0
SEW	3.76	28	eP	49	24.60	-0.4
SLKM	3.95	20	ePc	49	27.64	-0.1
NKA	4.02	12	eP	49	30.49	1.8
MTU	4.21	39	eP	49	31.52	0.0
SPU	4.38	6	ePc	49	33.71	-0.2
CKL	4.38	4	ePc	49	33.81	-0.2
BGL	4.45	4	eP	49	34.68	-0.2
KNIM	4.46	36	eP	49	34.46	-0.5
CRP	4.46	5	eP	49	35.10	-0.1
SDN	4.48	254	eP	49	34.80	-0.4
SVW	4.50	343	iPc	49	35.30	-0.3
NCG	4.60	5	eP	49	36.84	-0.2
PMS	4.75	20	ePc	49	38.67	-0.6
SUA	4.78	13	eP	49	39.48	-0.2
GLI	5.07	34	eP	49	42.32	-1.3
PWA	5.08	17	eP	49	43.81	0.1
KNK	5.14	25	eP	49	43.58	-1.1
PLRM	5.16	21	eP	49	43.69	-1.1
PMR	5.16	21	e(P)	49	45.00	0.2
			i	49	56.80	
SKT	5.21	7	eP	49	45.02	-0.6
GHO	5.36	21	ePc	49	46.72	-1.2
VZW	5.38	35	eP	49	47.07	-1.0
VLZ	5.50	36	eP	49	49.19	-0.5
CUT	5.75	13	eP	49	54.12	0.9
TTA	6.30	347	eP	50	00.10	-1.0
TOA	6.31	30	eP	50	01.30	0.1
TZL	6.48	33	eP	50	03.72	0.2
TGL	6.57	49	eP	50	04.01	-0.9
GLB	6.59	42	eP	50	04.08	-1.1
SDG	6.83	30	eP	50	09.08	0.6
RND	6.90	16	eP	50	08.20	-1.3
BALM	6.92	48	ePc	50	09.13	-0.7
PAX	7.21	28	eP	50	13.43	-0.4
FBA	8.47	15	eP	50	32.40	1.0
IMA	9.27	358	eP	50	41.00	-1.5
ANM	9.83	327	e(P)	50	49.10	-1.0
			i	50	53.60	
INK	14.48	30	P	51	53.00	0.6
YKA	19.94	58	eP	53	00.60	0.2
	0.8s		1.60nm			3.4mb X
PNT	21.23	97	ePc	53	18.00	4.2X
MBC	22.97	20	eP	53	32.00	1.2
	0.7s		16.00nm			4.7mb
RSSD	32.90	91	eP	55	05.00	2.8
NB2	61.80	9	P	58	45.40	-1.2
	0.8s		2.70nm			4.5mb
SLL	62.53	8	eP	58	50.20	-1.2
	0.5s		1.20nm			4.3mb
MOX	72.12	10	e(P)	59	53.00	1.2
GUN	82.10	310	P	00	47.94	-0.2
KKN	82.46	311	P	00	49.70	-0.1
GKN	82.54	311	P	00	49.82	-0.3
PKI	82.60	310	P	00	50.16	-0.5
	0.8s		7.00nm			4.9mb
DMN	82.69	311	P	00	51.32	0.3

S.D. = 0.9 on 63 of 64 obs.

% MAR 29, 1991 07h 55m 26.54± 0.98s
39.783 N ± 8.2km 20.514 E ±12.3km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)

IGT	0.29	209	ePc	55	32.12	-0.4
			eS	55	38.08	
FNA	1.20	33	ePd	55	47.92	-1.0
			eS	56	05.72	
OHR	1.34	9	ePn	55	52.50	1.2
AGG	1.60	118	iPc	55	55.80	0.8
			iS	56	16.00	
GRG	1.86	50	ePc	55	58.56	-0.2
THE	2.06	65	iPc	56	01.00	-0.6

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

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* MAR 29, 1991 08h 25m 16.89± 1.33s
40.347 N ± 7.1km 25.685 E ±13.6km
DEPTH = 10.0km (geophysicist)
AEGEAN SEA (365)

EZN	0.72	136	iPg	25	30.00	-1.0
			eSg	25	39.70	
RDO	0.81	352	iPc	25	32.50	0.0
			eS	25	46.50	
PRK	1.19	157	eP	25	39.50	0.5
			eS	25	55.60	
EDC	1.66	89	ePn	25	46.00	-0.2
BNT	1.71	89	iPn	25	47.50	0.6
DMK	2.15	46	ePn	25	53.00	-0.3
CTT	2.23	68	ePn	25	57.00	2.5X
DST	2.38	107	ePn	25	57.00	0.4
YLV	2.82	84	ePn	26	07.00	4.1X

S.D. = 0.7 on 7 of 9 obs.

& MAR 29, 1991 08h 54m 48.02s
62.119 N 149.761 W
DEPTH = 47.1km
2.7mb (1 obs.)
CENTRAL ALASKA (1)
<AEIC>. ML 3.0 (PMR). Felt (III) ot Skwentno.

CUT	0.37	321	iPc	54	57.30	-0.4
PWA	0.47	187	iPd	54	58.65	-0.2
			eS	55	06.98	
GHO	0.53	131	iPd	54	58.98	-0.6
			eS	55	07.63	
PLRM	0.61	150	iPd	54	59.65	-0.8
			eS	55	09.52	
PMR	0.61	150	iPd	55	00.20	-0.3
			iS	55	10.90	
SML	0.74	114	eP	55	01.73	-0.7
SUA	0.81	216	iPd	55	03.23	-0.1
			eS	55	15.05	
SKT	0.84	261	iPc	55	02.93	-0.8
			eS	55	15.45	
HUR	0.86	4	iPc	55	03.14	-0.9
			eS	55	14.94	
PMS	0.88	174	iPc	55	03.70	-0.6
KNK	0.94	138	iPd	55	04.30	-0.8
			eS	55	17.81	
NCG	1.35	239	eP	55	10.06	-0.8
			eS	55	28.33	
RND	1.36	18	iPd	55	09.77	-1.2
			eS	55	26.99	
TRF	1.36	350	ePc	55	09.98	-1.1
			S	55	27.37	
CRP	1.43	234	eP	55	11.54	-0.5
			eS	55	29.16	
SPU	1.44	230	iPd	55	11.57	-0.6
			eS	55	30.93	
BGL	1.52	237	eP	55	12.76	-0.5
CKL	1.54	234	eP	55	13.06	-0.5
NKA	1.55	208	ePc	55	14.93	1.3
SLKM	1.63	188	ePc	55	13.82	-1.0
MCK	1.66	13	iPc	55	14.47	-0.8
TOA	1.69	89	iPc	55	16.10	0.5
GLI	1.78	133	ePc	55	15.78	-1.1
VZW	1.87	123	iPc	55	16.75	-1.4
VLZ	1.91	120	ePc	55	17.02	-1.7
RDT	2.01	221	iPd	55	19.51	-0.6
SDG	2.01	76	ePc	55	19.91	-0.2
			eS	55	43.55	
SEW	2.03	176	eP	55	19.73	-0.6
KNIM	2.03	150	eP	55	18.11	-2.3
TZL	2.04	90	eP	55	19.98	-0.6
BWN	2.07	4	eP	55	19.90	-1.0
PAX	2.16	65	ePc	55	21.59	-0.8
			eS	55	48.87	
REF	2.17	222	ePd	55	21.99	-0.5
RDN	2.17	223	ePd	55	21.75	-0.7
NCT	2.19	226	ePd	55	22.32	-0.4
RS2	2.20	222	eP	55	22.64	-0.4
RSO	2.20	222	eP	55	22.59	-0.4
NNL	2.21	200	eP	55	23.77	0.8
RED	2.24	222	ePd	55	22.89	-0.6
			S	55	50.43	
THY	2.26	53	eP	55	22.92	-0.7
HIN	2.34	136	ePd	55	23.15	-1.6
MTU	2.37	153	eP	55	22.46	-2.8
BRLK	2.43	194	eP	55	25.91	-0.1
DDM	2.44	45	eP	55	26.50	0.2
WRH	2.48	17	eP	55	24.77	-2.0
NEA	2.49	7	eP	55	24.82	-2.1
CVA	2.50	127	eP	55	25.26	-1.7
HDA	2.62	28	ePd	55	26.98	-1.9
CCB	2.69	18	ePd	55	27.53	-2.2
CNPM	2.70	196	eP	55	28.77	-1.3
SGAM	2.73	124	eP	55	28.41	-2.0
RDS	2.81	14	eP	55	29.62	-2.0
GLB	2.91	101	ePc	55	30.92	-2.1
FBA	2.93	17	ePd	55	31.80	-1.4
MDM	2.93	13	iPd	55	31.40	-1.9
SVW	2.98	253	ePd	55	32.90	-1.0
RAGM	3.01	123	eP	55	33.44	-0.9
TTA	3.01	288	eP	55	32.70	-1.7
DOT	3.03	57	eP	55	34.68	0.0
GLM	3.07	19	ePd	55	33.14	-2.1
HMT	3.20	121	eP	55	34.92	-2.2
AUH	3.30	215	eP	55	37.51	-1.0
AUI	3.32	214	eP	55	37.88	-0.9
TMW	3.34	66	eP	55	37.48	-1.5
TGL	3.60	109	eP	55	39.94	-2.9
MCNL	3.71	219	ePc	55	43.49	-0.7
BALM	3.71	104	iPc	55	41.45	-2.9
WAX	3.73	114	eP	55	42.03	-2.6
CTGM	4.20	102	eP	55	48.57	-2.7
IMA	4.32	338	iPd	55	51.30	-1.7
FYU	4.88	22	eP	55	58.01	-2.6
INK	9.20	41	P	56	58.50	-2.3
YKA	16.23	73	eP	58	32.00	-1.9
	0.8s		0.50nm			2.7mb
	73 obs. associated					

MAR 29, 1991 09h 06m 06.44± 0.23s
5.210 N ± 4.2km 32.672 E ± 4.0km
DEPTH = 10.0km (geophysicist)

29d 09h

5.5mb (57 obs.) 4.9Msz (12 obs.)
SUDAN (557)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 26C
Centroid Location:
Origin Time 09:06:21.2 1.0
Lat 5.43N 0.12 Lon 31.84E 0.08
Dep 15.0 FIX Half-duration 2.0
Moment Tensor: Scale 10**17 Nm
Mrr=-0.87 0.08 Mtt= 0.34 0.08
Mff= 0.54 0.11 Mrt= 1.43 0.24
Mrf= 0.20 0.22 Mtf=-0.23 0.07
Principal Axes:
T Val= 1.29 Plg=33 Azm= 8
N 0.56 10 272
P -1.86 56 167
Best Double Couple:Mo=1.6*10**17
NP1:Strike=130 Dip=15 Slip= -51
NP2: 270 78 -100

AAE 7.14 58 ePn 07 25.00 -28.8X
NAI 7.65 147 iPd 08 01.20 0.4
1.0s 200.00nm 6.3mb X
iS 09 34.00
ARO 11.86 57 eP+ 09 04.00 5.2X
NPA 21.19 162 iP 10 56.00 1.4
i 16 21.90
i 17 04.40
KRI 22.10 188 iP 11 08.60 4.7X
iS 15 11.00
iLg 17 31.00
MBH 24.52 5 eP 11 29.00 1.6
BUL 25.51 189 iP 11 35.50 -1.4
iS 16 00.50
iSn 16 26.40
iLg 19 11.50
DSI 26.35 5 eP 11 46.00 1.5
GLH 27.50 5 eP 11 57.00 1.9
BHL 28.68 5 P 12 04.00 -1.8
S 21 24.00
SLR 31.05 188 eP 12 23.00 -4.1X
1.3s 615.38nm 6.3mb X
S 17 40.00
PRY 32.34 189 iPc 12 41.50 3.1X
S 19 31.00
SHGH 32.56 273 eP 12 39.00 -1.3
LEGH 32.71 272 eP 12 41.50 -0.1
KOGH 32.76 273 eP 12 42.00 -0.1
KUK 32.89 273 eP 12 44.00 0.8
S 23 23.00
IZM 33.40 352 eP 12 48.00 0.7
BBTK 34.48 0 eP 13 06.00 9.3X
AGG 34.94 346 ePd 13 01.00 0.4
TAB 34.99 19 e(P) 13 02.00 0.8
SOH 36.43 348 ePd 13 13.50 0.2
SRS 36.67 348 ePd 13 15.50 0.3
FNA 36.84 346 ePd 13 17.50 0.8
KNT 36.85 348 ePd 13 18.00 1.3
VAY 37.07 347 eP 13 19.40 0.8
KIC 37.24 274 P 13 19.94 -0.4
OHR 37.30 345 eP 13 20.70 0.2
1.3s 97.00nm 5.4mb
TIC 37.51 274 P 13 22.36 -0.3
LIC 37.52 273 P 13 22.14 -0.6
Z 18s 3.00um 5.1Msz
SKO 37.95 346 iPc 13 27.40 1.4
e 13 32.60
e 13 42.40
e 22 09.80
LR 38 23.30
LKO 38.17 279 P 13 27.88 -0.3
CER 40.40 197 eP 13 46.00 -0.5
S 20 33.50
CMP 40.45 352 ePc 13 49.00 2.2
MLR 40.55 353 eP 13 48.00 0.3
QUE 40.74 48 eP 13 52.00 2.4
1.2s 62.50nm 5.2mb
BEO 40.88 347 eP 13 51.40 1.2
POO 42.29 68 eP 14 02.80 0.5
BUD 43.72 347 e(P) 14 14.00 0.6
VOY 43.81 341 iP 14 15.20 0.9
PSZ 43.94 348 iP 14 13.70 -1.6
ZST 44.85 345 iP 14 22.90 0.3
GBA 44.88 76 Pd 14 22.10 -1.1
1.2s 18.40nm 4.9mb
KBA 44.92 341 iPd 14 24.10 0.7

1.4s 107.00nm 5.6mb
i 14 32.00
i 14 40.20
e 16 12.00
IFR 45.01 314 iPc 14 26.00 1.7
VKA 45.12 345 iPc 14 23.50 -1.2
1.5s 157.00nm 5.7mb
i 14 25.80
i 14 30.20
TIO 45.38 309 iP 14 29.00 1.7
OGA 45.51 339 eP 14 29.00 0.9
BHG 45.63 341 eP 14 28.80 0.0
1.5s 95.00nm 5.5mb
WTTA 45.64 340 iPd 14 29.70 0.6
1.1s 46.20nm 5.4mb
i 14 49.00
OSS 45.68 338 ePc 14 29.80 0.4
VDL 45.76 338 ePc 14 31.10 1.0
KRA 45.96 349 iPc 14 31.70 0.4
1.4s 89.00nm 5.6mb
i 14 45.10
LPG 46.04 335 eP 14 31.70 -0.7
1.1s 36.65nm 5.3mb
LPL 46.07 335 eP 14 31.80 -0.7
1.1s 34.20nm 5.3mb
DIX 46.24 336 ePc 14 33.50 -0.4
LLS 46.26 338 ePc 14 33.70 -0.3
EMS 46.42 335 ePc 14 34.70 -0.6
HYB 46.47 71 ePd 14 35.80 -0.1
1.2s 71.40nm 5.6mb
FUR 46.54 340 eP 14 35.90 -0.1
KHC 46.67 343 iP 14 37.20 0.2
1.3s 102.50nm 5.7mb
Z 13s 1.00um 5.0MszX
N 12s 0.60um
E 12s 0.50um
WET 46.89 342 iPd 14 38.80 0.0
1.5s 173.00nm 5.9mb
PRU 47.17 344 eP 14 39.50 -1.4
1.5s 33.50nm 5.2mb
Z 12s 0.60um 4.8MszX
e 15 40.00
e 16 10.50
SLE 47.19 338 ePc 14 40.10 -1.1
EPF 47.28 328 eP 14 42.40 0.4
1.6s 55.95nm 5.4mb
FEL 47.47 338 eP 14 42.66 -0.8
KSP 47.50 346 eP 14 43.30 -0.2
BTH 47.64 327 P 14 45.50 0.8
pP 14 51.30 19kmX
PP 15 14.50
CAF 47.75 331 eP 14 46.10 0.5
1.3s 36.10nm 5.3mb
TOL 47.79 322 iPc 14 46.50 0.5
1.4s 139.53nm 5.9mb
GRF 47.89 341 eP 14 46.40 -0.2
1.6s 121.00nm 5.7mb
Z 19s 0.40um 4.4Msz
e(pP) 14 51.50 17kmX
e(sP) 14 54.40
BSF 47.90 337 eP 14 46.10 -0.8
1.2s 35.70nm 5.3mb
LPO 48.00 330 eP 14 47.90 0.3
1.2s 47.60nm 5.5mb
BRG 48.13 344 iP 14 47.60 -0.9
1.6s 58.00nm 5.4mb
NDI 48.19 56 iPd 14 50.00 0.8
eS 25 44.00
CDF 48.19 337 eP 14 48.20 -0.9
1.4s 26.15nm 5.1mb
SMF 48.20 334 eP 14 49.00 -0.1
1.3s 65.00nm 5.5mb
HAU 48.22 336 eP 14 48.80 -0.4
1.6s 43.55nm 5.3mb
Z 21s 0.52um 4.5Msz
HOF 48.23 342 eP 14 48.50 -0.8
1.3s 47.00nm 5.4mb
RJF 48.29 331 eP 14 50.00 0.2
1.4s 74.05nm 5.6mb
Z 19s 1.30um 4.9Msz
LBF 48.40 334 eP 14 50.20 -0.5
1.2s 34.20nm 5.3mb
LFF 48.41 330 eP 14 50.90 0.2
1.5s 104.45nm 5.7mb
MAF 48.46 332 eP 14 51.50 0.4
1.3s 72.20nm 5.6mb
AVF 48.53 333 eP 14 51.50 -0.1

1.4s 61.00nm 5.5mb
BGF 48.59 333 eP 14 51.90 -0.1
1.2s 26.80nm 5.2mb
MOX 48.60 342 iP 14 52.00 -0.1
1.5s 110.00nm 5.7mb
i 16 53.00
SSF 48.67 334 eP 14 52.10 -0.6
LOR 48.67 334 eP 14 52.40 -0.3
1.2s 37.20nm 5.3mb
Z 21s 0.30um 4.3Msz
TCF 48.68 332 eP 14 53.20 0.4
1.1s 51.30nm 5.5mb
CLL 48.79 344 iP 14 52.80 -0.7
1.7s 78.00nm 5.5mb
LSF 48.97 332 eP 14 55.20 0.2
1.1s 59.85nm 5.5mb
MFF 50.03 331 eP 15 03.10 0.0
1.2s 35.70nm 5.2mb
BNS 50.33 339 iPc 15 06.30 0.9
1.5s 112.00nm 5.6mb
MEM 50.46 338 Pc 15 07.10 0.8
DOU 50.59 337 P 15 06.90 -0.4
ENN 50.62 338 eP 15 07.00 -0.5
1.0s 20.00nm 5.0mb
WTS 51.32 340 iPc 15 12.20 -0.6
1.2s 60.00nm 5.4mb
LDF 51.44 333 eP 15 13.30 -0.6
1.3s 57.75nm 5.3mb
LPF 51.47 332 eP 15 13.60 -0.4
1.2s 56.55nm 5.4mb
FLN 51.73 333 eP 15 15.30 -0.7
Z 18s 1.08um 4.9Msz
WIT 52.05 340 eP 15 19.00 0.7
GKN 54.22 59 Pd 15 33.86 -1.2
1.3s 250.00nm 6.1mb
DMN 54.52 60 Pd 15 36.42 -1.0
1.3s 191.00nm 6.0mb
KKN 54.71 60 Pd 15 37.62 -1.2
1.1s 130.00nm 5.9mb
PKI 54.77 60 Pd 15 37.78 -1.6
1.4s 128.00nm 5.7mb
GUN 55.26 60 Pd 15 41.60 -1.3
1.4s 344.00nm 6.2mb
NUR 55.50 355 eP 15 41.50 -2.2
1.3s 28.50nm 5.1mb
UPP 55.72 351 iP 15 43.70 -1.5
HFS 56.67 349 eP 15 50.20 -1.9
0.5s 1.10nm 4.1mb X
Z 17s 0.36um 4.5MszX
LR 40 49.00
KAF 56.98 356 iP 15 53.10 -1.1
1.0s 24.60nm 5.2mb
EKA 57.63 337 Pc 15 58.00 -1.0
2.1s 197.40nm 5.8mb
NB2 58.00 348 P 16 00.00 -1.5
1.2s 37.90nm 5.3mb
WMQ 61.61 42 P 16 25.50 -1.2
1.5s 40.00nm 5.4mb
Z 18s 0.90um 5.0Msz
SOD 62.20 357 iP 16 28.90 -1.2
KEV 64.56 358 eP 16 44.00 -1.6
CHG 65.89 72 eP 16 54.50 -0.6
GTA 69.10 50 Pd 17 14.80 -0.4
4.0s 420.00nm 6.0mb X
Z 13s 0.70um 5.1MszX
E 14s 0.70um
pP 17 20.60 19kmX
S 26 21.00
sS 26 28.50
KMI 69.77 65 Pc 17 19.50 -0.1
Z 20s 0.80um 5.0Msz
pP 17 24.50 16kmX
CD2 71.12 59 eP 17 26.20 -1.4
LZH 71.75 54 Pd 17 31.00 -0.4
4.0s 300.00nm 5.7mb X
Z 20s 0.73um 4.9Msz
N 10s 0.33um
GYA 73.37 64 iPd 17 40.40 -0.6
1.4s 100.00nm 5.7mb
pP 17 46.00 18kmX
PDCR 73.48 255 eP 17 41.30 -0.3
XAN 75.71 56 iPc 17 54.00 -0.3
DAG 76.66 349 eP 17 58.20 -0.6
BTO 77.02 50 eP 18 02.00 0.4
HHC 78.21 50 P 18 09.80 1.6
1.3s 100.00nm 5.7mb
Z 16s 0.80um 5.1MszX

	N 13s	0.40um			
		pP	18 15.00		17kmX
		S	27 58.00		
TIY	78.74	53 Pd	18 11.00	-0.1	
	Z 20s	0.75um		5.0Msz	
WHN	80.21	60 Pc	18 20.50	1.4	
		pP	18 25.50		16kmX
BJI	81.70	50 eP	18 28.00	1.3	
	1.5s	58.00nm		5.4mb	
	Z 16s	0.58um		5.0MszX	
BAO	82.44	254 ePd	18 32.00	0.9	
NJ2	84.03	58 Pd	18 40.40	1.5	
	Z 20s	0.30um		4.7Msz	
		eS	29 05.00		
SSE	86.07	59 Pd	18 50.00	0.9	
	1.2s	24.00nm		5.2mb	
	Z 20s	0.50um		4.9Msz	
	E 20s	1.00um			
SNY	87.24	48 Pc	18 55.40	0.8	
	1.8s	100.00nm		5.8mb	
CN2	88.44	46 eP	19 00.00	-0.3	
FRB	90.31	334 eP	19 08.00	-0.7	
YKA	108.01	345 ePKP	24 51.70	16.0X	
	0.8s	0.50nm			
RSSD	117.36	326 PKP	24 59.80	5.4X	
BW06	121.24	328 PKP	25 01.00	-0.9	
PV09	123.93	324 PKP	25 06.50	-0.8	
ANMO	124.56	319 PKP	25 09.10	0.6	
ALO	124.56	319 ePKP	25 08.00	-0.5	
TNP	128.64	330 PKP	25 16.50	0.2	
ORV	129.48	334 PKP	25 17.70	0.2	
CMB	130.22	332 PKP	25 19.70	0.7	
GSC	130.53	327 ePKP	25 22.00	2.2	
CLC	130.57	328 ePKP	25 21.00	1.2	
TPC	130.99	325 ePKP	25 23.00	2.4X	
ISA	131.14	329 ePKP	25 21.00	0.1	
SBB	131.54	327 ePKP	25 24.00	2.3	
PEC	131.77	326 PKP	25 23.00	0.9	
	S.D. = 1.0	an 140 of 149 obs.			

MAR 29, 1991 09h 09m 55.75± 0.97s
25.310 N ± 7.4km 124.201 E ±11.6km
DEPTH = 143.1 ± 10.3 km
4.1mb (9 obs.)
NORTHEAST OF TAIWAN (245)

TWC	2.25	252 iPc	10 34.10	0.3	
		eS	11 05.20		
TWZ	2.38	265 ePc	10 36.70	1.1	
TWD	2.67	243 ePc	10 38.20	-0.9	
TWO	3.23	252 iPc	10 47.30	0.9	
TWF1	3.29	234 iPc	10 45.70	-1.5	
TWG	3.78	230 iPc	10 51.40	-2.3	
TWK	3.95	240 ePc	10 55.80	-0.2	
SSE	6.35	336 eP	11 29.50	1.4	
		e(S)	12 39.00		
		eLg	13 13.00		
CVP	7.89	197 eP	11 51.00	2.2	
MAT	16.40	44 (P)	13 38.00	-1.0	
	0.7s	4.79nm		3.9mb	
LZH	20.50	306 eP	14 24.50	0.2	
	1.4s	27.00nm		4.5mb	
		i	14 43.00		
GBA	45.40	264 Pc	18 01.90	0.1	
	0.8s	2.30nm		3.9mb	
WRA	46.05	167 P	18 07.00	0.2	
	0.5s	2.50nm		4.1mb	
WB2	46.05	167 iPd	18 07.10	0.2	
	1.0s	4.30nm		4.1mb	
ASPA	49.59	168 iPc	18 34.80	0.5	
	0.9s	3.60nm		4.1mb	
INK	71.15	23 eP	21 00.00	-0.1	
HFS	77.91	331 eP	21 38.30	-0.6	
	0.4s	1.80nm		4.2mb	
NB2	78.50	333 P	21 41.60	-0.6	
	0.5s	1.10nm		3.9mb	
YKA	80.86	24 eP	21 54.60	0.0	
	0.6s	1.90nm		4.0mb	
	S.D. = 1.1	an 19 of 19 obs.			

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* MAR 29, 1991 10h 00m 04.39± 0.90s
50.633 N ±14.6km 14.528 E ± 7.2km
DEPTH = 10.0km (geophysicist)
CZECHOSLOVAKIA (547)
ML 3.5 (VKA), 3.2 (KBA), 3.1 (GRF).

KSP	1.14	79 iP	00 25.80	0.0	
		iS	00 42.30		
HOF	1.72	260 ePn	00 34.90	0.3	
WET	1.83	216 ePn	01 36.00	59.8X	
MOX	1.85	272 ePn	00 36.00	-0.5	
		eSg	01 01.00		
GRF	2.33	247 ePn	00 43.60	0.3	
		iPgc	00 46.60		
		eSg	01 17.00		
VKA	2.64	153 ePg	00 52.00	4.2X	
		iSg	01 33.30		
		i	01 35.80		
ZST	2.96	144 eP	01 21.40	29.1X	
		i	01 42.00		
		i	01 51.70		
BHG	3.11	201 ePn	01 04.20	9.8X	
KBA	3.64	193 iPnd	01 02.00	-0.2	
		i	01 12.00		
		i	01 55.00		
		iSg	02 04.80		
TOD	3.82	257 eP	02 03.04	58.4X	
	S.D. = 0.5	an 5 of 10 obs.			

% MAR 29, 1991 10h 31m 05.46± 3.18s
39.576 N ±23.5km 29.443 E ±15.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

DST	0.63	273 ePg	31 18.00	-0.2	
IZI	0.76	2 iPg	31 20.40	0.0	
YLV	0.99	357 iPn	31 23.90	-0.4	
KCT	1.07	309 ePn	31 26.00	0.3	
EYL	1.13	29 ePn	31 26.90	0.2	
	S.D. = 0.4	an 5 of 5 obs.			

& MAR 29, 1991 11h 32m 24.68s
63.263 N 149.742 W
DEPTH = 105.1km
2.7mb (1 obs.)
CENTRAL ALASKA (1)
<AEIC>.

HUR	0.29	170 iP	32 39.70	1.4	
		eS	32 50.99		
TRF	0.31	308 iP	32 40.14	-0.2	
		eS	32 51.85		
RND	0.43	70 iP	32 40.61	-0.2	
		eS	32 51.84		
MCK	0.59	37 iP	32 41.72	-0.2	
CUT	0.90	196 eP	32 44.96	0.3	
BWN	0.92	8 iP	32 44.78	-0.2	
		eS	32 59.34		
NEA	1.35	12 iP	32 49.08	-0.7	
		eS	33 07.04		
WRH	1.42	30 iP	32 49.93	-0.6	
SKT	1.53	213 iP	32 51.24	-0.7	
		eS	33 12.13		
GHO	1.54	165 eP	32 52.31	0.1	
		S	33 13.34		
PWA	1.62	182 iP	32 53.82	0.8	
		eS	33 15.77		
CCB	1.63	31 iP	32 52.47	-0.7	
HDA	1.69	46 iP	32 53.32	-0.6	
		eS	33 16.29		
PLRM	1.70	170 eP	32 53.89	-0.2	
		eS	33 16.13		
RDS	1.72	23 iP	32 53.82	-0.5	
THY	1.81	83 eP	32 55.78	0.3	
DDM	1.82	71 eP	32 55.22	-0.4	
		eS	33 19.60		
MDM	1.83	21 iP	32 55.20	-0.5	
FBA	1.85	27 iP	32 55.44	-0.6	
SUA	1.87	195 eP	32 56.67	0.3	
KNK	1.95	162 eP	32 57.12	-0.2	
PAX	1.96	97 eP	32 57.64	0.1	
GLM	2.02	30 iP	32 57.50	-0.7	
TOA	2.02	124 eP	32 57.86	-0.4	
PMS	2.03	178 eP	32 57.73	-0.6	
SDG	2.06	109 eP	32 58.34	-0.4	
NCG	2.18	212 eP	32 59.85	-0.6	
CRP	2.30	210 eP	33 01.43	-0.6	
TZL	2.34	120 eP	33 01.82	-0.6	
SPU	2.35	208 eP	33 02.33	-0.3	
BGL	2.36	213 eP	33 01.94	-0.8	
CKL	2.40	212 eP	33 02.63	-0.8	
DOT	2.58	79 eP	33 05.00	-0.7	
VLZ	2.67	142 eP	33 05.46	-1.3	
GLI	2.70	151 eP	33 05.98	-1.2	
SLKM	2.77	185 eP	33 07.64	-0.6	
TTA	2.87	266 eP	33 08.42	-1.2	
RDT	2.98	206 eP	33 11.30	0.2	
NCT	3.10	211 eP	33 11.17	-1.6	
RDN	3.11	209 eP	33 12.45	-0.4	
INK	8.35	46 P	34 24.00	-0.5	
YKA	15.92	77 eP	36 01.60	-1.9	
	0.6s	0.30nm		2.7mb	
	42 obs. associated				

MAR 29, 1991 11h 34m 21.07± 0.35s
79.734 N ± 7.1km 124.066 E ± 7.7km
DEPTH = 10.0km (geophysicist)
4.6mb (14 obs.) 4.3Msz (3 obs.)
EAST OF SEVERNAYA ZEMLYA (654)

BRW	19.60	71 eP	38 53.40	1.7	
MBC	20.61	37 eP	39 03.00	0.7	
	1.4s	29.00nm		4.4mb	
DAG	22.42	339 eP	39 19.00	-1.5	
ANM	24.06	87 eP	39 39.80	3.2X	
IMA	24.76	75 eP	39 46.50	2.9X	
	1.7s	46.10nm		4.9mb	
INK	25.98	56 eP	39 57.00	2.1	
		pP	40 22.00		117kmX
FBA	26.84	71 P	40 04.50	1.7	
	1.0s	13.00nm		4.6mb	
YKA	34.11	45 eP	41 05.90	-1.3	
	1.0s	3.90nm		4.3mb	
NB2	34.36	307 P	41 08.60	-0.9	
	0.7s	1.70nm		4.1mb	
MDJ	35.30	173 eP	41 18.00	0.4	
SNY	38.03	181 eP	41 41.00	0.5	
WMO	38.43	224 P	41 45.50	1.4	
	1.0s	20.00nm		4.8mb	
	Z 18s	0.90um		4.6Msz	
BJI	39.93	189 eP	41 53.50	-2.9	
	Z 12s	0.30um		4.4MszX	
GTA	41.52	209 eP	42 10.60	0.9	
	1.2s	10.00nm		4.4mb	
	Z 20s	0.40um		4.3Msz	
	N 10s	0.30um			
KSP	43.44	299 eP	42 26.50	1.4	
		e	44 11.00		
CLL	43.50	302 eP	42 26.00	0.4	
		e	42 39.00		
KRA	43.62	295 eP	42 27.80	1.2	
		e	42 40.40		
MOX	44.36	303 e(P)	42 34.00	1.5	
SPC	44.41	294 e(P)	42 34.30	1.1	
LZH	44.50	204 eP	42 34.00	0.0	
	1.6s	29.00nm		4.9mb	
	Z 20s	0.29um		4.2Msz	
		pP	42 43.50		32kmX
XAN	46.22	197 iPc	42 47.60	0.1	
NEW	47.61	52 P	42 59.30	0.8	
	1.0s	12.50nm		5.0mb	
WHN	49.46	191 eP	43 13.50	0.7	
		sP	43 22.50		
CD2	49.65	203 eP	43 14.50	0.1	
RSSD	53.40	42 P	43 41.00	-1.8	
	1.0s	5.42nm		4.5mb	
GYA	53.89	199 P	43 46.40	0.1	
GUN	54.35	222 P	43 50.08	0.0	
GKN	54.41	224 P	43 49.88	-0.4	
KKN	54.54	223 P	43 51.32	0.0	
DMN	54.74	223 P	43 52.96	0.1	
PKI	54.74	223 P	43 52.44	-0.5	
TNP	57.57	55 P	44 12.00	-1.0	
GOL	57.59	44 P	44 11.00	-2.2	
CHG	62.02	207 eP	44 42.80	-0.7	
ANMO	62.14	46 P	44 43.60	-0.8	
	1.0s	7.50nm		4.8mb	
ALO	62.15	46 eP	44 43.10	-1.4	
	1.0s	7.25nm		4.8mb	
HYB	65.63	228 eP	45 06.00	-1.1	
		e	45 14.00		
GBA	69.53	229 Pd	45 29.50	-2.0	
	0.8s	3.30nm		4.5mb	
WRA	99.64	170 P	48 07.00	1.4	
	0.6s	0.50nm		4.3mb	
	S.D. = 1.3	an 37 of 39 obs.			

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* MAR 29, 1991 12h 31m 57.13± 1.83s
1.872 S ±12.4km 100.504 E ±12.9km
DEPTH = 62.9 ± 13.5 km

29d 12h

4.9mb (10 obs.)
SOUTHERN SUMATERA (274)

KGM	4.78	36	ePd	33 10.10	1.8
PSI	4.80	341	iPd	33 09.00	0.3
TSI	5.68	340	eP	33 20.00	-0.9
IPM	6.43	5	ePc	33 30.30	-1.1
	0.5s	55.10nm			5.3mb X
CHG	20.61	356	eP	36 33.10	-0.6
PIP	28.19	44	ePd	38 02.50	16.5X
LSA	32.64	345	eP	38 25.90	0.1
PKI	32.68	335	P	38 25.64	-0.4
GUN	32.78	336	Pc	38 27.08	0.2
	0.4s	38.00nm			5.6mb X
DMN	32.84	334	P	38 27.26	-0.1
KKN	32.93	335	P	38 27.80	-0.2
	0.4s	20.00nm			5.3mb
GKN	33.39	334	P	38 31.92	-0.1
	0.4s	18.00nm			5.3mb
XAN	36.59	12	iPc	38 57.60	-1.4
WB2	37.64	121	iPd	39 07.60	-0.4
		e		41 25.40	
ASPA	38.92	127	iPd	39 19.50	0.8
	0.6s	22.40nm			5.2mb
GTA	41.09	359	eP	39 35.80	-0.6
	0.8s	20.00nm			4.9mb
BJI	44.11	17	eP	40 01.50	0.6
	1.0s	18.00nm			4.8mb
WMQ	46.92	347	P	40 24.00	0.7
STK	48.86	132	eP	40 37.10	-1.4
	0.9s	2.50nm			4.2mb
CN2	50.67	23	eP	40 51.60	-0.5
KAF	84.30	333	iP	44 24.40	1.2
	0.5s	6.20nm			4.9mb
NUR	84.68	331	eP	44 26.00	0.9
	0.5s	5.40nm			4.9mb
SOD	85.56	338	eP	44 19.00	-10.4X
HFS	90.01	330	eP	44 52.10	1.2
	0.4s	1.30nm			4.6mb
NB2	91.28	331	P	44 57.00	0.2
	0.7s	1.20nm			4.4mb
YKA	114.10	17	ePKP	50 29.70	-0.9
	0.5s	0.10nm			

S.D. = 0.9 on 24 of 26 obs.

? MAR 29, 1991 13h 15m 58.65±10.38s
43.037 N ±89.5km 23.718 E ±18.9km
DEPTH = 10.0km (geophysicist)
BULGARIA (359)
MD 2.6 (THE).

VAY	1.92	207	ePn	16 30.50	-1.1
SRS	1.92	183	iPc	16 31.00	-0.7
		iS		16 54.00	
KNT	1.97	198	iPc	16 33.30	0.9
		eS		16 57.06	
SKO	1.99	238	e(Pn)	16 39.80	7.1X
		e(Sn)		17 10.30	
SOH	2.23	187	ePc	16 36.54	0.3
		eS		17 02.90	
GRG	2.30	206	iPd	16 37.82	0.6
ALN	2.75	140	iPd	16 43.69	0.1
MLR	2.93	32	eP	17 41.00	54.8X

S.D. = 1.0 on 6 of 8 obs.

MAR 29, 1991 13h 27m 51.96± 0.23s
60.727 N ± 5.1km 166.911 E ± 3.5km
DEPTH = 33.0km (normal)
5.1mb (56 obs.) 4.4Msz (8 obs.)
EASTERN SIBERIA (671)

SMY	8.93	151	e(P)	29 59.60	-2.0
ANM	13.25	61	eP	31 00.20	0.2
TTA	17.49	67	eP	31 56.90	2.3
BRW	17.82	39	eP	32 00.00	1.5
SDN	17.95	93	e(P)	32 03.00	2.9X
SVW	18.06	72	e(P)	32 05.50	3.9X
IMA	18.19	56	eP	32 04.20	0.9
	1.6s	65.30nm			4.5mb
RSO	19.59	73	P	32 20.00	-0.1
FBA	20.75	59	eP	32 31.90	0.0
SLKM	20.77	72	P	32 26.50	-5.6X
TOA	22.11	66	eP	32 46.50	0.8
INK	25.71	48	eP	33 20.00	-0.2
	1.0s	45.00nm			5.0mb
		pP		33 40.50	92kmX
MBC	28.53	29	eP	33 46.00	0.1
	1.3s	15.00nm			4.5mb
CN2	29.85	254	eP	33 58.40	0.4
Z	14s	3.60um			5.2MszX
N	14s	1.40um			
E	14s	0.80um			
		ePP		34 07.00	30kmX
		eS		38 54.00	
MAT	30.29	230	iPc	34 02.30	0.3
	1.0s	33.00nm			5.1mb
Z	20s	0.71um			4.3Msz
		eS		39 21.00	
SNY	32.24	254	eP	34 19.60	0.6
	1.8s	100.00nm			5.4mb
Z	16s	1.20um			4.7MszX
N	14s	1.10um			
E	13s	1.00um			
		S		39 34.00	
YKA	35.23	52	eP	34 43.00	-1.6
	1.0s	5.70nm			4.5mb
BJI	37.17	260	eP	35 01.50	0.3
	1.5s	78.00nm			5.3mb
Z	12s	0.90um			4.8MszX
N	12s	0.64um			
		eS		40 48.00	
HHC	38.79	265	eP	35 15.60	0.6
Z	14s	1.20um			4.9MszX
N	13s	0.70um			
E	13s	0.90um			
BTO	39.74	266	eP	35 22.00	-0.9
N	13s	1.10um			
E	13s	1.50um			
TIA	39.75	255	eP	35 23.80	1.0
Z	20s	0.90um			4.6Msz
N	16s	1.30um			
E	16s	0.80um			
TIY	40.80	261	eP	35 32.50	0.9
Z	12s	1.20um			5.0MszX
N	11s	0.81um			
PNT	41.41	72	eP	35 37.00	0.7
	0.6s	5.00nm			4.4mb
EDM	41.54	63	ePd	35 38.40	1.0
NJ2	42.36	250	eP	35 45.00	0.7
Z	14s	0.80um			4.8MszX
N	12s	1.20um			
E	14s	0.90um			
		S		42 07.00	
DAG	42.71	2	eP	35 48.30	1.7
	0.9s	12.60nm			4.6mb
NEW	43.32	71	P	35 52.20	0.2
	0.8s	9.58nm			4.6mb
SES	44.55	65	eP	36 02.00	0.1
FFC	45.26	55	eP	36 05.00	-2.5X
	1.4s	50.00nm			5.2mb
XAN	45.45	261	eP	36 09.80	0.5
N	14s	0.80um			
E	16s	1.30um			
GTA	45.66	274	eP	36 11.00	0.0
	1.0s	10.00nm			4.7mb
Z	17s	1.20um			4.9MszX
N	11s	0.80um			
WHN	45.72	253	eP	36 13.50	2.1
LZH	46.29	268	Pc	36 16.00	0.0
	1.0s	35.00nm			5.3mb
Z	15s	0.72um			4.7MszX
N	14s	1.13um			
E	15s	1.53um			
LRM	47.28	70	eP	36 24.50	0.6
WMO	48.13	287	P	36 31.00	0.6
Z	18s	0.80um			4.7Msz
		eS		43 32.00	
SOD	48.95	341	eP	36 39.00	2.8X
FRB	49.00	29	eP	36 35.50	-1.1
CD2	50.51	264	P	36 48.30	-0.4
BW06	50.94	70	P	36 51.20	-0.9
	0.8s	6.55nm			4.6mb
TNP	50.98	80	P	36 51.70	-0.7
	0.7s	3.89nm			4.5mb
RSSD	52.41	65	P	37 02.50	-0.7
	0.8s	9.62nm			4.8mb
GYA	52.80	258	iPd	37 06.60	0.5
KAF	53.84	338	iP	37 12.20	-0.9
	1.0s	17.70nm			5.0mb
NUR	55.63	338	iP	37 25.30	-0.9
	0.7s	6.20nm			4.7mb
KMI	55.82	261	Pc	37 28.00	-0.3
NB2	57.13	346	P	37 36.00	-1.1
	1.1s	39.20nm			5.4mb
SCH	57.20	34	eP	37 36.00	-1.6
UPP	57.41	342	iP	37 38.00	-0.9
LSA	57.69	274	eP	37 42.00	0.1
HFS	57.70	345	eP	37 38.70	-2.3X
	0.6s	2.60nm			4.5mb
Z	17s	0.19um			4.3MszX
		LR		03 28.00	
ANMO	58.65	74	P	37 48.80	0.6
ALQ	58.65	74	eP	37 48.00	-0.2
	1.1s	7.28nm			4.7mb
GUN	61.75	277	P	38 08.80	-0.9
KKN	62.14	278	P	38 11.82	-0.4
	0.6s	11.00nm			5.1mb
PKI	62.26	277	P	38 12.50	-0.6
	0.9s	11.00nm			5.0mb
GKN	62.28	278	P	38 12.04	-1.0
DMN	62.38	278	P	38 14.28	0.5
LOE	62.88	257	eP	38 11.00	-5.8X
CHG	63.01	260	ePc	38 17.60	-0.1
	0.9s	13.03nm			5.1mb
FVM	63.35	60	P	38 18.60	-1.1
EKA	64.02	354	P	38 24.00	0.1
	1.3s	40.50nm			5.4mb
WIT	65.71	347	eP	38 40.00	5.2X
KSP	66.30	340	eP	38 38.00	-0.6
CLL	66.36	342	eP	38 40.00	1.0
	1.3s	24.00nm			5.1mb
KRA	66.41	337	eP	38 42.20	2.9X
		e		38 51.80	
WTS	66.50	347	eP	38 43.00	3.2X
	1.0s	29.00nm			5.3mb
BRG	66.65	342	eP	38 43.10	2.3
	1.5s	23.00nm			5.1mb
ECB	67.15	356	eP	38 45.90	2.0
SPC	67.18	337	eP	38 44.60	0.1
MOX	67.21	343	eP	38 45.00	0.5
	1.3s	27.00nm			5.2mb
		e		38 47.50	
ECP	67.32	356	eP	38 45.90	0.9
PRU	67.41	341	eP	38 46.50	0.8
Z	12s	0.50um			5.0MszX
		e		38 48.80	
ENN	67.81	347	eP	38 51.00	2.9X
	1.0s	20.00nm			5.2mb
MEM	67.96	347	P	38 50.10	1.1
GRF	68.20	343	eP	38 51.10	0.4
Z	22s	0.10um			4.0Msz
		e		38 53.90	
		e		39 28.90	
KHC	68.40	342	eP	38 55.40	3.5X
WET	68.49	342	iPc	38 55.70	3.2X
	1.2s	26.00nm			5.2mb
DOU	68.61	348	P	38 53.00	-0.2
ZST	68.72	339	eP	38 51.40	-2.4X
		i		38 56.30	
CDF	69.97	346	eP	39 00.80	-0.8
	1.0s	16.00nm			5.0mb
FLN	70.39	351	eP	39 03.10	-0.9
	1.1s	43.95nm			5.4mb
Z	20s	0.22um			4.4Msz
FEL	70.41	345	eP	39 06.32	2.0
KBA	70.43	341	i(P)	39 06.10	1.6
	1.2s	28.70nm			5.2mb
		i		39 08.30	
		i		39 17.70	
HAU	70.49	346	eP	39 04.00	-0.7
	1.1s	24.40nm			5.2mb
Z	19s	0.25um			4.5Msz
LDF	70.53	351	eP	39 04.00	-0.9
	1.2s	38.70nm			5.3mb
BSF	70.60	346	eP	39 04.40	-1.1
	1.1s	19.55nm			5.1mb
GRR	70.79	351	eP	39 05.70	-0.8
	1.2s	47.60nm			5.4mb
LPF	71.16	351	eP	39 08.10	-0.6
	1.1s	31.75nm			5.3mb
LOR	71.49	348	eP	39 09.80	-0.9
	1.1s	51.30nm			5.5mb
Z	20s	0.17um			4.3Msz
SSF	71.73	348	eP	39 11.50	-0.6
	1.1s	28.10nm			5.2mb
LBF	71.75	348	eP	39 11.80	-0.6
AVF	72.01	348	eP	39 13.30	-0.5
	1.1s	37.85nm			5.3mb
SMF	72.10	348	eP	39 13.70	-0.7
	1.3s	25.25nm			5.1mb
BGF	72.29	349	eP	39 14.90	-0.6

	1.1s	22.00nm			5.1mb	
MFF	72.51	351 eP	39	16.50	-0.3	
	1.1s	24.40nm			5.1mb	
TCF	72.62	349 eP	39	17.00	-0.5	
	1.2s	22.30nm			5.0mb	
MAF	72.65	349 eP	39	17.40	-0.2	
	1.2s	31.25nm			5.2mb	
LSF	72.72	349 eP	39	17.40	-0.6	
LPL	72.89	346 eP	39	19.60	0.3	
LPG	72.91	346 eP	39	19.80	0.3	
	1.1s	36.65nm			5.3mb	
RJF	73.66	349 eP	39	23.00	-0.5	
	1.1s	17.10nm			5.0mb	
Z	19s	0.17um			4.4Msz	
CAF	73.98	349 eP	39	25.60	0.2	
	1.2s	38.70nm			5.3mb	
LFF	74.09	350 eP	39	25.90	-0.1	
	1.0s	28.00nm			5.2mb	
HYB	74.19	277 eP	39	26.00	-1.0	
LPO	74.30	349 eP	39	27.20	0.0	
	1.3s	43.30nm			5.3mb	
EPF	76.02	350 eP	39	36.40	-0.7	
	1.1s	14.65nm			4.9mb	
GBA	78.00	276 Pd	39	46.10	-2.3	
	1.1s	9.10nm			4.7mb	
TOL	79.47	353 iPc	40	01.00	4.8X	
WB2	84.58	211 eP	40	23.30	0.5	
WRA	84.59	211 P	40	23.00	0.2	
	0.8s	6.90nm			4.9mb	
ASPA	88.27	210 iPd	40	41.80	1.0	
	0.8s	5.00nm			4.9mb	
SPA	150.56	180 iPKPd	47	40.00	5.4X	
	0.5s	9.26nm				
	S.D. = 0.9	on 96 of 112 obs.				

& MAR 29, 1991 13h 44m 06.70s
37.382 N 121.772 W
DEPTH = 6.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 3.3 (BRK).
Mo=1.4•10••14 Nm (BRK). Felt at Son Jose.

MHC	0.11	111 iP	44	09.20	-0.1
ARN	0.19	100 iPd	44	10.20	-0.5
GCC	0.39	207 iPd	44	14.76	0.1
		iS	44	21.32	
PCC	0.50	284 iPd	44	16.42	-0.3
BKS	0.62	323 iPc	44	18.60	-0.4
		iS	44	28.20	
BRK	0.63	322 iPc	44	18.80	-0.4
		iS	44	28.20	
SAO	0.67	157 iPc	44	19.70	-0.4
ZSP	0.68	326 iPd	44	19.99	-0.3
		iS	44	30.47	
LLA	1.01	139 ePc	44	24.64	-1.6
PRS	1.10	163 eP	44	26.47	-1.2
CMB	1.28	59 ePd	44	29.30	-1.5
		eS	44	45.30	
NWRM	1.39	321 eP	44	30.10	-2.5
PRI	1.52	144 eP	44	33.25	-1.4
FRI	1.69	103 eP	44	35.10	-1.8
ORV	2.18	6 eP	44	41.20	-2.8
BONR	2.81	77 eP	44	52.00	-1.3
KVN	3.34	59 eP	45	00.20	-0.5
TNP	3.68	78 eP	45	02.00	-3.5
	18 obs. associated				

• MAR 29, 1991 13h 57m 48.72± 1.21s
32.994 S ± 7.5km 72.089 W ±10.9km
DEPTH = 38.6 ± 9.8 km
4.5mb (4 obs.)
OFF COAST OF CENTRAL CHILE (134)

IHA	0.38	95 iPc	57	56.70	-1.1
		i(S)	58	07.80	
LCCH	0.65	138 iPd	58	00.60	-0.8
ROCH	0.91	89 iPd	58	05.10	-0.2
LNV	1.11	150 iPc	58	07.90	-0.1
TACH	1.17	125 iPd	58	08.90	0.1
PEL	1.19	98 iPd	58	10.00	0.8
SAN	1.28	111 iPd	58	11.10	0.6
		iS	58	29.30	
JACH	1.30	77 iP	58	11.50	0.7
PCH	1.46	116 iPd	58	14.00	0.9
ZON	3.23	64 e(P)	58	39.70	1.4
TCA	6.57	77 eP	59	24.00	-1.5
		(S)	00	43.00	
SLA	10.06	37 e(P)	00	18.00	4.1X
CCH	16.44	20 P	01	42.80	4.2X
ARE	16.47	2 eP	01	44.00	5.1X
CNCB	16.54	14 P	01	40.00	0.0
LPB	16.78	13 P	01	46.00	3.0X
ZOBO	17.03	13 Pd	01	46.20	-0.1
Z	17s	0.55um			
		LR	07	22.00	
SIV	19.65	33 P	02	14.20	-3.1X
PPD	21.38	65 eP	02	33.40	-1.7
VAO	24.26	72 eP	03	03.10	-0.3
BMA	26.67	75 (P)	03	26.00	-0.1
BAO	27.84	57 e(P)	03	33.00	-3.8X
LIC	74.50	72 P	09	25.50	0.1
KIC	74.81	72 P	09	27.40	0.2
	0.6s	6.00nm			4.7mb
ALQ	74.88	331 eP	09	26.00	-1.4
ANMO	74.88	331 eP	09	29.50	2.1
	1.1s	2.85nm			4.2mb
LKO	76.04	69 P	09	34.50	0.3
	0.6s	10.00nm			4.9mb
TNP	82.24	326 eP	10	07.00	-0.5
	1.0s	2.00nm			4.1mb
GBA	146.19	118 PKPc	17	26.40	0.4
	0.9s	8.00nm			
HYB	149.38	113 ePKPc	17	36.40	5.3X
	S.D. = 1.0	on 23 of 30 obs.			

% MAR 29, 1991 14h 37m 55.22± 0.69s
44.307 N ± 5.1km 11.946 E ± 8.6km
DEPTH = 5.0km (geophysicist)
NORTHERN ITALY (545)

SFI	0.39	190 Pd	38	02.80	-0.3
		eSg	38	09.00	
CRE	0.68	180 P	38	07.90	-0.9
		eSg	38	18.10	
BDI	1.00	256 P	38	15.40	0.7
		eSg	38	31.40	
ARV	1.08	138 P	38	16.50	0.4
ASS	1.34	157 P	38	21.00	0.5
CTI	1.75	353 P	38	25.80	-0.8
		eSn	38	50.20	
FVI	2.36	14 P	38	35.50	0.3
	S.D. = 0.8	on 7 of 7 obs.			

% MAR 29, 1991 15h 12m 40.73± 0.75s
44.398 N ± 6.0km 7.379 E ± 7.7km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.9 (GEN).

STV	0.16	194 P	12	44.43	0.0
		S	12	46.99	
ENR	0.17	170 P	12	44.53	-0.2
		S	12	46.99	
PZZ	0.23	298 P	12	45.96	0.3
		S	12	49.96	
ROB	0.37	106 P	12	48.53	0.2
		S	12	53.86	
BHB	0.45	349 P	12	49.65	-0.3
		S	12	55.81	
	S.D. = 0.3	on 5 of 5 obs.			

MAR 29, 1991 15h 18m 34.26± 0.43s
18.403 S ±11.0km 174.521 W ± 6.5km
DEPTH = 33.0km (normal)
5.1mb (8 obs.)
TONGA ISLANDS (173)

RAR	14.16	104 P	21	53.00	-1.6
		S	24	21.00	
DZM	18.23	255 iPd	22	53.00	6.4X
MNG	23.75	199 eP	23	44.10	-0.4
TVO	24.02	93 iP	23	49.60	2.3
	1.0s	55.00nm			5.0mb
THZ	25.64	202 eP	24	02.80	0.2
PMO	25.71	86 iP	24	03.60	0.2
	1.0s	50.00nm			5.1mb
TPT	25.98	87 iP	24	06.00	0.1
	1.0s	40.00nm			5.0mb
RUV	26.17	87 iP	24	07.40	-0.2
	1.0s	60.00nm			5.2mb
LTZ	26.76	202 eP	24	13.20	0.3
CTA	37.01	261 iPc	25	44.30	1.4
	1.0s	23.00nm			5.0mb
STK	41.66	243 eP	26	41.80	20.4X
	0.9s	2.10nm			
WB2	48.16	259 iPd	27	13.40	-0.3
WRA	48.17	259 P	27	13.00	-0.7
	0.4s	9.60nm			5.2mb
ASPA	48.22	254 iPd	27	13.80	-0.3
	0.6s	17.90nm			5.3mb
WARB	54.60	251 eP	28	21.00	18.8X
MBL	61.44	255 eP	28	50.00	-0.2
SPA	71.71	180 iPc	29	55.00	0.1
	1.0s	20.00nm			5.1mb
SES	88.27	35 eP	31	23.00	-0.5
INK	91.43	14 eP	31	38.00	0.2
YKA	93.26	24 eP	31	45.70	-0.6
	0.7s	0.40nm			4.0mb X
CLL	146.63	351 iPKPd	38	14.30	2.0X
	1.3s	26.00nm			
		e	38	38.00	
BRG	146.91	350 iPKP	38	15.50	2.7X
	1.1s	15.00nm			
		e	38	39.00	
MOX	147.46	353 ePKP	38	17.00	3.3X
PRU	147.66	349 ePKP	38	17.50	3.5X
GRF	148.45	353 ePKP	38	21.00	5.7X
		e	38	23.40	
KHC	148.66	350 iPKP	38	20.50	4.8X
FLN	149.33	8 ePKP	38	20.90	4.2X
LDF	149.54	7 ePKP	38	21.60	4.6X
GRR	149.65	8 ePKP	38	21.90	4.7X
	1.1s	32.75nm			
LPF	149.97	9 ePKP	38	22.80	5.1X
	1.1s	29.75nm			
CDF	150.03	358 ePKP	38	23.00	5.1X
	1.1s	8.00nm			
HAU	150.47	359 ePKP	38	24.00	5.5X
	0.7s	5.50nm			
LOR	151.18	2 ePKP	38	25.70	6.1X
	1.1s	9.75nm			
SSF	151.37	3 ePKP	38	26.20	6.4X
	1.1s	13.45nm			
AVF	151.64	3 ePKP	38	27.20	7.0X
	1.0s	7.00nm			
SMF	151.80	2 ePKP	38	27.80	7.3X
	S.D. = 0.9	on 17 of 36 obs.			

MAR 29, 1991 16h 16m 26.79± 1.34s
33.193 S ± 5.2km 71.664 W ±12.1km
DEPTH = 10.0km (geophysicist)
NEAR COAST OF CENTRAL CHILE (135)

IHA	0.17	7 iPc	16	29.50	-1.1
		i(S)	16	40.40	
LCCH	0.29	164 iPd	16	33.60	0.7
		iS	16	42.00	
ROCH	0.59	68 iPd	16	37.90	-1.0
		iS	16	52.50	
TACH	0.76	127 iPd	16	42.00	0.3
		iS	16	58.00	
LNV	0.79	165 iPc	16	40.60	-1.5
		iS	16	55.50	
PEL	0.82	87 iPd	16	42.70	0.0
		iS	16	58.50	
SAN	0.88	107 iP	16	44.10	0.4
		iS	17	02.00	
		i	17	06.30	
JACH	1.04	61 iPd	16	44.50	-1.9
		iS	17	02.50	
PCH	1.05	114 iPd	16	46.60	-0.1
		iS	17	06.50	
MDZ	2.38	83 iP	17	10.50	3.9X
		iS	17	46.50	
RTCB	2.96	56 ePd	17	14.90	0.1
		S	17	41.00	
ZON	3.01	58 eP	17	16.70	1.2
RTLL	3.28	56 iPc	17	19.40	0.1
CFA	3.30	62 ePd	17	19.80	0.2
		eS	18	10.00	
RTRS	3.55	33 ePc	17	25.00	2.0
TCA	6.27	75 eP	17	58.60	-3.1X
	S.D. = 1.1	on 14 of 16 obs.			

& MAR 29, 1991 16h 20m 16.84s
60.100 N 152.611 W
DEPTH = 101.9km
2.7mb (1 obs.)
SOUTHERN ALASKA (2)
<AEIC>.

29d 16h

RED	0.33	346	iPd	20	31.37	-0.8
			eS	20	42.73	
RSO	0.37	349	iPd	20	31.76	-0.7
			iS	20	43.57	
RS2	0.37	349	iPd	20	31.78	-0.7
			eS	20	43.24	
REF	0.39	353	iPd	20	31.91	-0.7
			eS	20	43.82	
RDN	0.42	350	eP	20	31.98	-0.7
			eS	20	43.42	
RDT	0.49	12	iPd	20	32.29	-0.8
			eS	20	44.58	
NCT	0.49	341	eP	20	32.18	-0.9
			S	20	44.27	
NNL	0.66	94	ePc	20	34.74	0.4
XLV	0.79	145	ePc	20	34.96	-0.5
AUI	0.87	209	eP	20	35.31	-1.0
			eS	20	49.19	
CNPM	0.90	129	ePd	20	36.31	-0.4
BRLK	0.93	110	ePd	20	36.40	-0.6
			eS	20	51.54	
NKA	0.94	46	iPc	20	38.29	1.3
CKL	1.11	7	iPc	20	38.33	-0.7
			eS	20	55.02	
SPU	1.12	14	iPc	20	38.34	-0.7
			eS	20	54.50	
BGL	1.17	5	iPc	20	39.21	-0.5
CRP	1.19	11	ePc	20	39.50	-0.5
			eS	20	57.02	
MCNL	1.27	224	iPc	20	39.22	-1.6
			eS	20	56.48	
NCG	1.33	9	eP	20	41.10	-0.5
SYI	1.50	176	eP	20	42.41	-1.1
			eS	21	02.59	
SEW	1.58	88	eP	20	43.35	-1.2
SUA	1.65	33	iPc	20	45.17	-0.4
PMS	1.89	51	iPc	20	47.89	-0.7
			eS	21	11.47	
SKT	1.96	15	iPc	20	48.31	-1.2
			eS	21	13.52	
PLRM	2.27	47	eP	20	51.56	-1.9
KNK	2.43	55	iPc	20	53.75	-1.9
KNIM	2.45	82	ePc	20	53.32	-2.6
GHO	2.46	45	ePc	20	54.37	-1.8
MTU	2.49	90	eP	20	55.07	-1.4
CUT	2.57	25	eP	20	56.55	-1.1
GLI	2.84	72	eP	20	59.46	-1.8
TRF	3.54	17	eP	21	10.33	-0.6
TOA	3.72	54	eP	21	11.28	-2.0
MCK	4.04	24	eP	21	16.30	-1.3
PAX	4.47	47	eP	21	21.53	-2.1
GLB	4.52	69	eP	21	21.47	-2.8
BALM	5.15	75	eP	21	30.19	-2.8
YKA	18.23	66	eP	24	21.20	-3.0
	0.6s		0.30nm			2.7mb
	38 obs. associoted					

MAR 29, 1991 16h 54m 31.26± 0.45s
5.405 N ± 8.2km 32.951 E ± 8.3km
DEPTH = 10.0km (geophysicist)
4.8mb (13 obs.) 4.0Msz (1 obs.)
SUDAN (557)

AAE	6.80	58	ePn	56	21.20	7.3X
NAI	7.67	150	iPd	56	25.00	-0.9
	1.0s		100.00nm			6.0mb X
			iS	57	56.50	
KRI	22.34	188	iP	59	32.90	1.8
			iSn	03	28.00	
			iLg	05	54.00	
BUL	25.74	189	eP	00	03.50	-0.5
			eSn	04	36.40	
			iLg	07	39.30	
KIC	37.50	273	P	01	47.20	-0.2
TIC	37.78	274	P	01	49.80	0.1
LIC	37.79	273	P	01	49.50	-0.3
	Z 20s		0.26um			4.0Msz
LKO	38.42	278	P	01	51.60	-3.5X
QUE	40.40	48	eP	02	14.00	2.4
GBA	44.56	76	Pd	02	45.30	-0.2
	0.7s		2.90nm			4.3mb
ZST	44.74	345	eP	02	50.30	3.8X
			e	27	53.00	
KBA	44.82	341	e(P)	02	48.00	0.6
	1.2s		10.00nm			4.6mb
LPG	45.99	334	eP	02	58.30	1.5
	1.0s		9.00nm			4.7mb

HYB	46.14	71	ePc	02	59.00	0.9
KHC	46.57	343	iPc	03	01.10	0.1
GRF	47.79	341	e(P)	03	06.00	-4.7X
MAF	48.42	332	eP	03	14.40	-1.2
	1.3s		23.45nm			5.1mb
MOX	48.50	342	eP	03	16.00	-0.2
			eSg	29	14.00	
TCF	48.64	332	eP	03	16.20	-1.1
	1.1s		11.00nm			4.8mb
CLL	48.68	343	e(P)	03	39.00	21.5X
GKN	53.88	59	P	03	56.90	-0.5
	1.1s		35.00nm			5.3mb
DMN	54.18	60	P	03	59.60	-0.1
	1.0s		33.00nm			5.3mb
KKN	54.38	60	P	04	00.82	-0.3
	1.1s		47.00nm			5.4mb
PKI	54.43	60	P	04	00.68	-1.0
GUN	54.92	60	P	04	04.64	-0.7
	1.2s		53.00nm			5.5mb
APO	56.86	349	eP	04	20.50	2.2
	0.5s		1.60nm			4.3mb
NB2	57.87	348	P	04	23.00	-2.4
	0.9s		4.50nm			4.5mb
LZH	71.41	54	eP	05	54.00	-0.1
	1.4s		14.00nm			4.9mb
			pP	06	00.00	19kmX
			sP	06	04.50	
			i	06	13.50	
WRA	102.51	109	Pdiff	08	38.00	8.0X
	0.7s		0.70nm			4.5mb
	S.D. = 1.2		on 23 of 29 obs.			

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* MAR 29, 1991 17h 32m 30.00± 0.50s
40.150 N ± 7.2km 78.775 E ±11.8km
DEPTH = 33.0km (normal)
4.1mb (5 obs.)
SOUTHERN XINJIANG, CHINA (321)

GKN	13.05	156	P	35	35.00	-0.8
GUN	13.55	152	P	35	42.80	0.2
QUE	13.85	228	eP	35	46.50	0.1
HYB	22.65	181	eP	37	34.00	4.4X
GBA	26.47	183	Pc	38	05.70	-0.2
	0.8s		5.10nm			4.2mb
HFS	44.14	319	ePKP	40	37.00	0.3
	0.6s		1.20nm			3.9mb
NB2	45.30	321	P	40	46.20	0.1
	0.9s		3.10nm			4.2mb
MBC	63.31	5	eP	42	57.00	-0.3
INK	69.19	12	ePd	43	34.70	-0.1
YKA	77.14	6	eP	44	20.60	-0.8
	0.8s		1.30nm			4.0mb
WRA	79.05	128	P	44	34.00	1.5
	0.8s		1.40nm			4.0mb
	S.D. = 0.7		on 10 of 11 obs.			

? MAR 29, 1991 17h 44m 37.86± 6.10s
64.308 N ±25.6km 170.603 W ±51.4km
DEPTH = 10.0km (geophysicist)
3.2mb (1 obs.)
BERING STRAIT (673)

ANM	2.28	81	iPc	45	15.00	-1.2
TTA	6.65	95	eP	46	17.30	-0.7
IMA	7.33	69	e(P)	46	29.30	1.7
			e	46	49.20	
SVW	7.59	108	eP	46	31.30	0.1
RSO	9.13	107	eP	46	59.00	6.3X
FBA	9.80	76	eP	47	01.00	-0.7
TOA	11.22	90	eP	47	22.60	1.4
INK	15.25	58	eP	48	14.00	-0.5
YKA	24.46	68	eP	49	57.30	-0.1
	0.6s		0.40nm			3.2mb
	S.D. = 1.2		on 8 of 9 obs.			

? MAR 29, 1991 17h 55m 02.23± 2.77s
22.441 S ±26.6km 68.766 W ±18.5km
DEPTH = 33.0km (normal)
4.5mb (1 obs.)
NORTHERN CHILE (123)

CCH	5.60	27	P	56	29.40	3.6X
CNCB	5.65	8	P	56	28.00	1.3
ZOBO	6.17	6	P	56	34.00	0.0
			i	56	36.20	
ARE	6.48	336	eP	56	37.00	-1.1
			iS	57	52.00	

SIV	9.69	50	P	57	21.80	-0.8
YKA	92.11	341	eP	08	09.50	0.5
	0.6s		1.30nm			4.5mb
GBA	146.75	99	PKPc	14	47.30	5.9X
	0.6s		1.60nm			
	S.D. = 1.4		on 5 of 7 obs.			

MAR 29, 1991 18h 11m 26.32± 0.66s
23.910 N ± 5.4km 121.483 E ± 8.9km
DEPTH = 10.0km (geophysicist)
3.7mb (1 obs.)
TAIWAN (244)

TWD	0.20	31	iPd	11	31.10	0.4
			eS	11	33.80	
TWF1	0.58	197	ePc	11	37.70	-0.4
TWQ	0.69	302	ePc	11	39.80	-0.3
			eS	11	50.00	
TWC	0.77	26	eP	11	40.80	-0.6
TWK	1.11	235	ePc	11	47.60	0.3
TWG	1.15	199	ePc	11	48.00	0.2
ANP	1.27	2	eP	11	50.20	0.2
			eS	12	03.70	
SSE	7.16	358	e(P)	13	38.20	24.6X
			eLg	15	17.50	
YKA	83.12	23	eP	23	48.50	-4.9X
	0.5s		0.30nm			3.7mb
	S.D. = 0.5		on 7 of 9 obs.			

& MAR 29, 1991 18h 48m 32.13s
61.657 N 150.709 W
DEPTH = 55.6km
SOUTHERN ALASKA (2)
<AEIC>.

SUA	0.19	185	iPc	48	41.60	0.3
PWA	0.40	91	iPc	48	42.72	0.0
SKT	0.51	310	iPc	48	43.23	-0.7
			eS	48	52.33	
PMS	0.69	126	iPc	48	45.56	-0.6
NCG	0.74	251	iPd	48	46.24	-0.6
			eS	48	57.62	
PLRM	0.76	94	iPc	48	46.07	-0.9
			eS	48	57.45	
CUT	0.78	15	iPd	48	46.44	-0.8
CRP	0.80	241	iPd	48	47.25	-0.4
			eS	48	59.44	
SPU	0.80	234	iPd	48	46.92	-0.7
			eS	48	58.90	
GHO	0.86	81	ePc	48	47.82	-0.5
			iS	49	00.88	
BGL	0.90	245	ePd	48	48.31	-0.6
CKL	0.91	240	iPd	48	48.36	-0.7
NKA	0.95	196	iPc	48	50.76	1.3
KNK	1.11	102	iPc	48	50.94	-0.7
SLKM	1.18	168	ePd	48	51.54	-1.1
RDT	1.36	218	iPd	48	54.39	-0.9
			eS	49	12.76	
HUR	1.42	20	eP	48	55.15	-0.8
			eS	49	12.89	
REF	1.52	220	iPd	48	56.77	-0.8
RDN	1.52	222	ePd	48	56.59	-0.9
			S	49	16.02	
NCT	1.54	225	ePd	48	57.08	-0.7
RS2	1.56	221	ePd	48	57.38	-0.7
RSO	1.56	221	ePd	48	57.38	-0.7
			eS	49	17.94	
RED	1.60	220	iPd	48	57.76	-0.8
			eS	49	18.99	
SCM	1.62	82	ePc	48	57.86	-1.0
			S	49	18.16	
SEW	1.68	158	eP	48	58.76	-0.7
TRF	1.81	6	eP	48	59.91	-1.7
BRLK	1.90	183	eP	49	02.50	-0.2
GLI	1.91	112	iPc	49	00.41	-2.4
KNIM	1.95	131	eP	49	00.38	-3.1
RND	1.96	25	iPc	49	02.18	-1.3
VZW	2.09	105	eP	49	03.33	-2.1
VLZ	2.17	102	eP	49	03.98	-2.5
TOA	2.20	76	iPc	49	06.24	-0.6
SDG	2.58	68	eP	49	10.95	-1.3
PAX	2.78	59	eP	49	13.81	-1.4
	35 obs. associoted					

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* MAR 29, 1991 20h 04m 33.09± 1.42s
31.634 S ±10.9km 68.184 W ±10.8km
DEPTH = 97.6 ± 17.3 km

SAN JUAN PROVINCE, ARGENTINA (137)

CFA	0.05	300	iPc	04 47.20	0.0
			eS	04 57.30	
RTLL	0.39	321	iPd	04 48.00	-0.1
ZON	0.43	282	iPc	04 48.80	0.4
			eS	04 59.80	
RTCB	0.55	285	eP	04 49.00	-0.3
MDZ	1.37	204	eP	04 58.00	0.0
RTRS	1.83	323	iPc	05 03.80	0.0
			eS	05 27.00	
TCA	3.08	85	ePc	05 20.80	0.0

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

MAR 29, 1991 20h 13m 48.39± 0.74s
3.959 S ± 3.4km 80.907 W ± 4.4km
DEPTH = 37.7 ± 5.9 km
5.2mb (39 obs.) 4.9Msz (15 obs.)

PERU-ECUADOR BORDER REGION (110)

Mo=1.3*10**17 Nm (PPT).
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 21S, 48C
Centroid Location:
Origin Time 20:13:48.8 0.8
Lat 4.27S 0.08 Lon 80.44W 0.10
Dep 41.6 6.4 Hdif-duration 2.2
Moment Tensor; Scale 10**17 Nm
Mrr= 1.00 0.18 Mtt= 0.40 0.13
Mff=-1.41 0.25 Mrt= 0.52 0.17
Mrf=-2.15 0.30 Mtf=-0.84 0.18
Principal Axes:

	Val=	Plg=	Azm=
T	2.62	52	53
N	0.12	24	176
P	-2.74	28	280

Best Double Couple:Mo=2.7*10**17
NP1:Strike= 55 Dip=27 Slip= 151
NP2: 171 77 66

TUNG	3.52	44	eP	14 43.90	1.5
QUIL	3.75	32	P+	14 55.50	9.8X
VC1	4.14	37	iPd	14 52.00	0.7
GGP	4.41	32	iP+	14 55.70	0.5
QTO	4.42	33	P+	14 55.50	0.4
OUR	4.45	32	P+	14 55.40	-0.2
YANA	4.47	31	iPd	14 55.60	-0.4
ANGL	4.88	44	eP	15 10.00	8.2X
CAYA	4.96	36	iP+	15 02.70	-0.3
COTA	4.98	31	eP	15 03.00	-0.2
PSO	6.24	35	eP	15 20.50	-0.4
BOG	10.93	39	eP	16 24.00	-1.8
			eS	19 02.00	
FUQ	11.79	37	eP	16 39.50	2.1
UPA	12.93	6	ePc+	16 53.00	0.7
Z	18s	11.51um			
BMG	13.46	36	eP	17 00.00	0.5
ARE	15.49	144	eP	17 27.00	0.8
ZOBO	17.53	135	iPc	17 51.10	-1.2
Z	16s	4.25um			
			S	21 00.00	
			LR	23 22.00	
TOV	17.58	39	eP	17 52.30	-0.1
LPB	17.73	136	Pc	17 54.20	-0.4
	1.0s	340.00nm			5.4mb
Z	15s	22.67um			4.4Msz
			S	21 16.00	
			LR	23 50.00	
CNCB	18.00	136	Pc	17 57.90	-0.2
CCH	19.68	134	P	18 18.70	0.8
CAR	20.01	44	iPd	18 19.00	-2.0
			i(S)	22 04.00	
ANT	22.09	154	eP	18 43.00	1.0
SIV	22.87	123	iPc	18 49.00	-0.9
TPP	24.01	54	eP	19 07.17	6.3X
TRN	24.24	53	eP	19 02.86	-0.2
T8H	24.42	54	eP	19 10.80	6.0X
SLA	25.43	146	ePc	19 15.50	0.9
LRS	26.10	32	P	19 20.00	-0.7
SJG	26.32	33	eP	19 22.00	-0.7
CPD	26.39	34	P	19 22.50	-0.9
PEL	30.57	163	iPd	20 01.00	0.1
MDZ	30.91	160	i(P)	20 05.40	1.5
LNV	31.13	165	eP	20 05.50	-0.2
TCA	31.27	152	ePc	20 06.30	-0.8
PPD	33.85	125	eP	20 28.10	-1.6
BAO	34.38	112	ePc	20 28.70	-5.8X
VAO	37.88	123	eP	21 02.30	-1.6

			e	21 03.40	
			e	21 21.60	
TKL	39.50	356	P	21 16.40	-0.8
RSCP	39.59	354	P	21 30.00	12.0X
Z	21s	0.87um			4.6Msz
BMA	40.14	121	eP	21 21.80	-0.9
			e	21 25.80	
			e	21 38.70	
OLY	40.49	347	P	21 25.40	0.1
BLA	40.96	1	P	21 27.20	-2.0
	0.8s	5.03nm			4.3mb
NAV	41.06	0	P	21 29.20	-0.9
MEO	41.97	338	iPc	21 38.10	0.5
NA2	41.97	4	P	21 37.40	0.0
TUL	42.04	342	eP	21 38.10	0.0
	0.8s	58.90nm			5.4mb
Z	21s	0.84um			4.6Msz
			LR	32 22.80	
PDCR	42.17	104	eP	21 37.30	-2.1
ALQ	45.55	330	ePc	22 07.70	1.0
	0.9s	20.38nm			5.0mb
Z	20s	0.71um			4.6Msz
ANMO	45.55	330	P	22 07.80	1.1
	1.0s	22.50nm			5.0mb
RSNY	48.63	6	P	22 40.00	9.5X
Z	21s	0.76um			4.7Msz
GLA	48.85	322	P	22 33.00	0.6
GLD	48.91	335	P	22 33.00	0.0
Z	20s	0.90um			4.8Msz
GOL	48.93	335	P	22 33.30	0.1
	0.9s	11.36nm			4.9mb
Z	21s	0.66um			4.6Msz
BNH	49.10	9	P	22 34.00	-0.1
BAR	49.77	320	eP	22 40.00	0.5
TPC	50.31	322	eP	22 44.00	0.4
PLM	50.33	320	eP	22 45.00	1.1
MSU	51.21	329	P	22 50.90	0.3
GSC	51.57	322	eP	22 54.00	0.8
MWC	51.65	320	eP	22 54.00	0.0
SBB	51.80	321	eP	22 55.00	0.0
CBM	51.92	11	P	22 54.50	-1.0
RSSD	52.18	339	P	23 10.00	12.1X
Z	22s	0.85um			4.7Msz
CLC	52.39	322	eP	23 00.00	0.6
ABL	52.79	320	P	23 02.80	0.2
DUG	52.80	329	P	23 03.20	0.8
	1.0s	12.50nm			4.8mb
ISA	52.83	321	eP	23 03.00	0.3
BW06	53.26	334	P	23 05.10	-0.8
TNP	53.68	325	P	23 09.20	0.2
	0.8s	6.86nm			4.7mb
PRI	54.51	321	eP	23 15.20	0.1
KVN	54.85	325	P	23 17.20	-0.4
LLA	54.98	321	eP	23 18.20	-0.2
PRS	55.08	320	eP	23 19.00	-0.1
CMB	55.53	322	eP	23 23.00	0.6
LRM	56.94	334	eP	23 32.30	-0.3
ORV	57.17	323	eP	23 34.80	0.8
WDC	58.43	324	eP	23 40.80	-2.1
LBFM	58.54	325	P	23 43.40	-0.5
SCH	59.73	9	eP	23 50.00	-1.6
SES	60.03	338	eP	23 53.00	-0.8
FFC	61.04	346	eP	23 58.90	-1.6
	0.9s	10.00nm			4.9mb
LON	62.05	329	P	24 07.00	-0.6
BMW	62.60	328	P	24 11.00	-0.2
PNT	62.77	333	ePc	24 12.00	-0.2
	0.9s	19.00nm			5.2mb
EDM	63.16	339	eP	24 13.80	-1.0
MBO	65.95	72	eP	24 34.80	1.4
FRB	68.16	6	eP	24 44.00	-2.6
YKA	71.06	344	eP	25 02.20	-2.2
	0.9s	3.70nm			4.4mb
LKO	76.22	79	Pc	25 34.90	-0.5
	1.1s	36.00nm			5.3mb
LIC	76.43	83	Pc	25 36.40	-0.2
Z	20s	1.15um			5.2Msz
TIC	76.48	82	Pc	25 36.62	-0.3
	0.9s	24.00nm			5.2mb
KIC	76.73	83	Pc	25 38.24	0.0
	1.0s	47.00nm			5.4mb
TIO	78.09	57	iP	25 48.00	2.3
AVE	78.47	55	eP	25 49.00	1.5
			i	26 16.50	
IFR	80.38	55	iPd	26 00.00	1.9
INK	80.70	343	eP	25 58.00	-0.8
KOGH	81.16	83	eP	26 02.50	0.2

SHGH	81.34	83	eP	26 03.00	-0.2
TOA	82.19	334	P	26 07.50	0.7
TOL	82.49	49	eP	26 11.00	2.3
			ePS	36 45.00	
MBC	83.08	351	ePc	26 11.00	0.0
	1.0s	21.00nm			5.2mb
PMR	83.29	333	P	26 11.30	-1.0
Z	22s	1.51um			5.3Msz
ECB	83.50	36	eP	26 14.00	0.4
ECP	83.70	37	eP	26 14.80	0.2
BTH	85.91	46	P	26 27.00	1.1
			pP	26 37.50	33kmX
SPA	86.07	180	iPc	26 26.50	0.1
	1.5s	85.23nm			5.8mb
			i	27 18.00	
LPF	86.16	41	eP	26 27.00	0.0
	1.0s	18.00nm			5.3mb
EKA	86.29	34	P	26 28.00	0.5
	1.1s	39.30nm			5.6mb
EPF	86.29	47	eP	26 28.50	0.6
	0.9s	7.05nm			4.9mb
MFF	86.52	43	eP	26 28.90	0.1
	0.9s	14.75nm			5.2mb
FLN	86.65	41	eP	26 29.70	0.3
	0.8s	16.10nm			5.3mb
Z	21s	1.10um			5.2Msz
IMA	86.68	337	eP	26 29.60	0.2
	2.0s	33.70nm			5.2mb
LDF	86.86	41	eP	26 30.50	0.1
	0.9s	19.65nm			5.3mb
LFF	86.87	45	eP	26 30.80	0.3
	0.7s	6.60nm			5.0mb
LPO	87.14	45	eP	26 32.10	0.2
	0.8s	10.75nm			5.1mb
RJF	87.46	44	eP	26 33.40	0.0
	0.7s	8.80nm			5.1mb
Z	21s	1.17um			5.3Msz
LSF	87.61	44	eP	26 34.10	0.0
DAG	87.67	12	eP	26 33.80	0.0
	0.5s	16.90nm			5.6mb
CAF	87.80	45	eP	26 35.20	0.1
TCF	88.08	44	eP	26 36.40	0.0
	0.9s	6.55nm			4.9mb
MAF	88.32	44	eP	26 37.10	-0.4
	1.0s	10.00nm			5.1mb
BGF	88.55	43	eP	26 38.20	-0.4
	0.7s	9.90nm			5.2mb
AVF	88.93	43	eP	26 40.10	-0.3
	0.9s	9.85nm			5.1mb
SSF	89.06	43	eP	26 40.80	-0.2
	0.9s	8.20nm			5.1mb
BRW	89.21	342	eP	26 42.00	0.8
SMF	89.24	43	eP	26 41.00	-0.9
	0.9s	7.35nm			5.0mb
LOR	89.33	43	eP	26 42.20	-0.1
	0.7s	6.60nm			5.1mb
Z	21s	0.90um			5.2Msz
SNF	89.96	40	P	26 46.30	1.2
DOU	90.12	40	P	26 47.00	1.1
			S	37 46.00	
LRG	90.71	47	eP	26 48.40	-0.3
	1.0s	24.00nm			5.5mb
Z	20s	0.95um			5.2Msz
FRF	90.92	47	eP	26 49.40	-0.4
	0.9s	11.45nm			5.2mb
ENN	91.03	39	eP	26 51.00	1.0
	0.8s	14.00nm			5.4mb
MEM	91.07	40	P	26 50.80	0.6
LPL	91.14	45	eP	26 51.40	0.4
LPG	91.15	45	eP	26 51.60	0.5
BSF	91.36	42	eP	26 51.10	-0.7
WTS	91.68	38	eP	26 54.50	1.5
CDF	91.72	42	eP	26 53.00	-0.5
ABH	92.00	40	eP	26 56.55	1.9
GRF	94.37	41	eP	26 59.00	-6.5X
Z	21s	0.40um			4.9Msz
			ePP	30 55.00	
			e	37 55.00	
			e	39 01.00	
			e	40 18.50	
MOX	94.64	40	eP	27 08.00	1.3
CLL	95.51	39	eP	27 12.00	1.3
	2.1s	60.00nm			5.7mb
BRG	96.12	39	eP	27 14.10	0.6
	1.5s	20.00nm			5.4mb
			e	27 24.00	
ASPA	136.36	229	iPKPc	33 07.70	-1.1

29d 20h

			iPKS	36	24.70	
WB2	138.00	234	iPKPc	33	10.80	-1.2
			i	33	21.10	
WRA	138.01	234	PKP	33	08.00	-4.0X
	0.8s	7.40nm				
QUE	139.97	46	ePKP	33	07.10	-8.4X
SSE	145.92	325	PKPd	33	25.00	-0.5
	1.0s	17.00nm				
	Z 20s	0.50um			5.3Msz	
			sPKP	33	34.00	
			e(SS)	56	12.00	
LZH	147.73	353	PKP	33	30.00	1.5
NDI	147.80	38	ePKP	33	19.50	-9.1X
MBL	147.81	218	iPKPc	33	31.10	2.3
POO	151.38	58	iPKP	33	18.50	-15.9X
GKN	152.41	28	PKP	33	35.56	-0.3
KKN	152.89	28	PKP	33	36.46	-0.1
DMN	152.96	28	PKP	33	36.36	-0.4
GUN	153.06	27	PKP	33	36.84	-0.2
PKI	153.13	28	PKP	33	36.68	-0.4
HYB	155.83	55	ePKPd	33	40.50	-0.1
			e	34	06.50	
GBA	156.57	64	PKP	33	42.00	0.4
	1.3s	7.80nm				
SHL	157.43	17	ePKP	33	42.00	-0.7
KMI	158.67	351	ePKP	33	43.00	-1.2
	Z 25s	0.70um			5.4MszX	
CHG	165.24	1	ePKP	33	50.10	-0.5
			e	41	50.50	
CHTO	165.24	1	ePKP	33	50.10	-0.5
	1.2s	3.47nm				
	S.D. = 0.9	on 151 of 164 obs.				

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* MAR 29, 1991 21h 13m 57.33± 0.93s
43.223 N ± 6.5km 20.766 E ±17.7km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MD 3.2 (THE).

SKO	1.35	158	iPg	14	22.00	-0.1
			eSg	14	37.80	
BEO	1.61	352	iPnc	14	26.50	0.6
			iSg	14	48.80	
OHR	2.11	179	ePn	14	33.00	-0.2
VAY	2.32	144	ePn	14	36.00	-0.2
BZS	2.47	14	ePc	14	37.50	-0.7
FNA	2.48	169	eP	14	43.70	5.2X
			eS	15	26.00	
KNT	2.60	142	eP	14	39.50	-0.6
SRS	2.97	134	eP	14	46.00	0.6
			eS	15	35.00	
SOH	3.08	140	eP	14	47.50	0.6
			eS	15	30.00	
MLR	4.35	57	eP	15	03.00	-2.1X
	S.D. = 0.6	on 8 of 10 obs.				

? MAR 29, 1991 21h 27m 03.67± 4.36s
29.236 S ±37.6km 68.725 W ±15.4km
DEPTH = 33.0km (normal)
SAN JUAN PROVINCE, ARGENTINA (137)

RTRS	1.13	214	iPd	27	23.20	0.0
RTLL	2.10	174	iPd	27	37.10	-0.1
			eS	28	08.80	
RTCB	2.24	182	eP	27	39.30	0.0
CFA	2.40	170	eP	27	41.70	0.2
			eS	28	13.90	
TCA	4.14	121	ePc	28	06.30	0.0
			(S)	28	51.00	
	S.D. = 0.1	on 5 of 5 obs.				

% MAR 29, 1991 22h 13m 44.00± 1.79s
10.500 N ±12.3km 61.746 W ±15.1km
DEPTH = 33.0km (normal)
TRINIDAD (98)
MD 3.7 (TRN). Felt (II) in northern Trinidad.

TCE	0.20	358	eP	13	51.20	0.6
			eS	13	57.71	
TPP	0.34	122	eP	13	52.19	-0.1
			eS	13	59.28	
TRN	0.37	66	eP	13	52.52	-0.1
			eS	15	02.07	
TBH	0.67	91	eP	13	56.91	-0.1
			eS	14	07.84	
PIG	1.11	53	eP	14	03.30	0.1
			eS	14	21.30	
TPR	1.17	54	eP	14	04.28	0.1
GRW	1.65	3	eP	14	09.69	-1.5
			eS	14	33.71	
SVV	2.85	10	eP	14	29.58	1.4
			eS	15	03.00	
SLB	3.38	12	eP	14	35.29	-0.5
			eS	15	15.52	
SLW	3.59	13	eP	14	38.65	-0.1
			eS	15	19.87	
	S.D. = 0.8	on 10 of 10 obs.				

MAR 29, 1991 22h 25m 55.10± 0.90s
32.867 S ± 6.1km 71.499 W ± 8.3km
DEPTH = 21.0 ± 7.0 km
NEAR COAST OF CENTRAL CHILE (135)

IHA	0.20	217	iPc	26	00.30	0.0
			iS	26	05.30	
ROCH	0.42	104	iPd	26	04.50	0.5
			iS	26	13.50	
LCCH	0.61	186	iP	26	07.00	0.0
			i	26	16.00	
			iS	26	18.50	
JACH	0.79	77	iPd	26	08.50	-1.5
			iS	26	21.00	
SAN	0.91	130	iPd	26	12.50	0.3
			iS	26	27.70	
TACH	0.91	149	iPd	26	12.50	0.3
			iS	26	28.50	
LNV	1.09	176	iPc	26	14.00	-1.0
			i	26	30.00	
PCH	1.12	133	iPd	26	15.50	-0.1
			iS	26	33.50	
MDZ	2.23	91	eP	26	34.40	2.8X
			iS	27	07.00	
RTCB	2.67	60	eP	26	37.80	-0.1
ZON	2.73	62	eP	26	39.70	1.0
RTLL	2.99	60	ePd	26	41.50	-0.9
			eS	27	20.60	
CFA	3.03	66	e(P)	26	42.30	-0.6
			S	27	21.00	
RTRS	3.20	33	e(P)	26	45.60	0.3
TCA	6.06	77	ePd	27	22.20	-3.6X
	S.D. = 0.8	on 13 of 15 obs.				

MAR 29, 1991 23h 28m 33.98± 1.45s
41.669 N ±10.4km 23.023 E ± 8.0km
DEPTH = 10.0km (geophysicist)
GREECE-BULGARIA BORDER REGION (363)
MD 2.5 (THE).

VAY	0.49	225	iPg	28	43.40	-0.4
			iSg	28	51.80	
KNT	0.52	191	iPc	28	44.86	0.4
			iS	28	54.46	
SRS	0.70	142	iPc	28	47.66	-0.1
			eS	29	00.74	
GRG	0.85	214	ePd	28	50.18	-0.2
			eS	29	04.26	
SOH	0.88	163	ePc	28	51.54	0.6
			eS	29	07.98	
			iS	29	08.50	
THE	1.04	182	ePc	28	53.94	0.4
			eS	29	10.94	
SKO	1.22	285	i(Pn)	28	57.00	0.3
PAIG	1.81	164	ePc	29	04.54	-0.9
	S.D. = 0.6	on 8 of 8 obs.				

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* MAR 29, 1991 23h 49m 41.79± 1.58s
5.676 N ± 9.8km 126.945 E ±24.6km
DEPTH = 160.3 ± 14.7 km
4.3mb (2 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

CGP	3.55	321	eP	50	36.00	-1.1
			eS	51	29.00	
MAP	5.47	328	eP	51	02.50	0.1
PLP	5.79	341	eP	51	08.00	1.3
			eS	51	33.00	
WB2	26.48	164	eP	55	04.70	-1.3
BAL	37.38	195	eP	56	41.00	0.3
KLB	38.08	193	eP	56	46.80	0.2
MUN	38.82	195	eP	56	53.30	0.6
NWAO	39.48	193	eP	56	59.00	0.9
STK	39.87	160	iPc	57	21.20	19.9X
	0.9s	4.40nm				
GBA	49.36	283	Pc	58	16.00	-1.1
	0.8s	2.70nm			4.0mb	
KEV	88.15	340	eP	02	10.00	-5.2X
INK	88.29	22	eP	02	15.00	-0.9
KAF	89.98	332	eP	02	24.60	0.7
NUR	91.12	331	eP	02	29.40	0.3
	0.5s	2.80nm			4.6mb	
	S.D. = 1.1	on 12 of 14 obs.				

% MAR 30, 1991 00h 44m 14.76± 0.52s
70.990 N ±11.3km 5.971 W ± 4.3km
DEPTH = 10.0km (geophysicist)
JAN MAYEN ISLAND REGION (639)
MD 3.1 (BER).

JNE	0.76	271	iPgd	44	29.96	0.3
JNW	0.81	274	iPgc	44	30.56	0.2
			eSg	44	39.74	
JMI	0.91	267	iPgc	44	31.66	-0.5
			eSg	44	42.56	
DAG	6.79	334	iPc	45	56.60	-0.1
	0.5s	15.49nm			5.3mb X	
LOF	7.39	103	eP	46	05.02	-0.1
TRO	8.49	87	eP	46	20.06	-0.4
NSS	9.35	125	iP	46	32.36	-0.1
			eS	48	09.98	
KTK1	10.14	87	eP	46	43.85	0.6
NRA0	12.47	137	P	47	12.00	-2.8X
			Sn	49	26.50	
	S.D. = 0.4	on 8 of 9 obs.				

% MAR 30, 1991 01h 34m 23.18± 0.57s
37.131 N ± 6.3km 4.805 W ± 4.8km
DEPTH = 10.0km (geophysicist)
SPAIN (377)
mbLg 2.8 (MDD).

EPRU	0.38	244	eP	34	30.55	-0.4
			eS	34	36.00	
EHOR	0.77	333	iPgc	34	38.50	0.3
			eSg	34	50.00	
EJIF	0.86	218	ePg	34	39.80	0.0
ECOG	1.00	81	ePg	34	42.30	0.1
			eSg	34	54.80	
AFC	1.01	83	ePg	34	42.70	0.2
			eSg	34	55.50	
EBAN	1.31	38	ePn	34	47.30	-0.1
			eSn	35	04.80	
EVAL	1.61	287	ePn	34	52.30	0.6
			eSn	35	12.50	
EVIA	2.36	50	ePg	35	08.80	6.1X
			eSg	35	36.00	
TOL	2.81	12	ePg	35	29.00	20.0X
			eSg	35	53.50	
GUD	3.54	8	ePn	35	18.80	-0.7
	S.D. = 0.5	on 8 of 8 obs.				

% MAR 30, 1991 01h 48m 29.45± 1.05s
0.590 S ± 9.6km 78.513 W ±12.2km
DEPTH = 33.0km (normal)
ECUADOR (107)

VC1	0.12	115	P	48	35.40	-0.6
QTO	0.38	357	eP	48	40.00	1.3
QUR	0.42	358	eP	48	39.80	0.6
GGP	0.42	349	eP	48	38.50	-0.9
QUIL	0.44	248	eP	48	40.00	0.4
YANA	0.48	353	Pd	48	39.00	-1.1
CAYA	0.85	38	P	48	46.20	0.7
COTA	0.94	11	eP	48	46.40	-0.3
	S.D. = 1.0	on 8 of 8 obs.				

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* MAR 30, 1991 01h 53m 22.54± 1.92s
3.760 S ± 9.8km 80.804 W ±17.1km
DEPTH = 69.4 ± 13.6 km
4.7mb (4 obs.)
PERU-ECUADOR BORDER REGION (110)

TUNG	3.31	45	P	54	14.00	0.6
VC1	3.92	38	P	54	22.50	0.4
GGP	4.19	32	eP	54	25.60	-0.4
QTO	4.19	33	eP	54	26.00	0.1
QUR	4.23	33	eP	54	26.10	-0.3
YANA	4.25	32	Pd	54	26.10	-0.7
CAYA	4.74	37	P	54	33.70	0.0
COTA	4.76	31	eP	54	34.00	0.1
ARE	15.59	145	eP	57	00.00	0.1

ALO	45.43	330	eP	01	37.00	0.5	
	0.9s		3.36nm			4.2mb	
SES	59.89	338	eP	03	03.00	-20.4X	
YKA	70.89	344	eP	04	32.60	-1.3	
	0.7s		0.50nm			3.6mb X	
LKO	76.09	79	P	05	04.68	-0.4	
LIC	76.31	83	Pc	05	06.02	-0.3	
	1.0s		8.50nm			4.6mb	
TIC	76.35	82	Pc	05	06.24	-0.3	
	1.0s		14.00nm			4.9mb	
MBC	82.90	351	eP	05	41.00	0.5	
EKA	86.07	34	Pc	05	58.10	1.3	
	1.3s		12.10nm			4.8mb	
GKN	152.18	28	PKP	13	12.00	6.4X	
PKI	152.91	28	PKP	13	09.80	2.9X	
	S.D. = 0.7		on 16 of 19 obs.				

MAR 30, 1991 02h 53m 43.02± 0.62s
32.069 S ± 7.8km 69.068 W ± 8.7km
DEPTH = 127.0 ± 8.9 km
MENDOZA PROVINCE, ARGENTINA (139)

ZON	0.62	33	iPd	54	02.30	-0.5	
RTCB	0.62	22	eP	54	03.00	0.1	
MDZ	0.83	167	iP	54	06.30	1.8	
			i(S)	54	18.50		
CFA	0.84	57	iPc	54	04.50	-0.1	
			S	54	19.00		
RTLL	0.90	35	iPc	54	04.50	-0.5	
JACH	1.43	244	iPd	54	11.00	0.4	
			iS	54	32.50		
PEL	1.74	231	iPd	54	14.40	0.3	
			iS	54	38.00		
ROCH	1.87	241	iPd	54	15.90	0.0	
			iS	54	41.00		
RTRS	1.92	350	iPc	54	16.00	-0.3	
			eS	54	39.60		
SAN	1.93	224	eP	54	15.50	-0.9	
			iS	54	42.50		
PCH	1.97	218	iPc	54	18.30	1.3	
			iS	54	44.40		
TACH	2.23	224	iP	54	20.40	0.2	
			iS	54	49.50		
LCCH	2.53	236	eP	54	23.00	-1.0	
			iS	54	54.00		
LNV	2.72	226	iP	54	25.00	-1.5	
			iS	54	57.50		
TCA	3.88	80	ePc	54	41.60	-0.5	
			(S)	55	14.80		
CNCB	15.22	4	P	57	14.80	1.8	
LPB	15.49	3	P	57	20.00	3.8X	
ARE	15.69	351	eP	57	19.00	0.4	
ZOBO	15.75	3	P	57	20.00	0.3	
SIV	17.58	26	P	57	40.20	-1.4	
	S.D. = 1.0		on 19 of 20 obs.				

MAR 30, 1991 03h 04m 58.93± 0.26s
39.415 N ± 2.5km 16.360 E ± 2.2km
DEPTH = 13.2 ± 1.6 km
3.7mb (2 obs.)
SOUTHERN ITALY (390)
MD 3.5 (ATH).

ROI	0.22	46	P	05	04.00	-0.1	
TDS	0.24	356	Pd	05	04.50	0.1	
			eSg	05	10.10		
CZI	0.26	222	P	05	04.20	-0.5	
CSI	0.37	351	P	05	07.00	0.4	
ORI	0.65	6	Pd	05	11.50	-0.1	
			eSg	05	22.60		
MGR	0.95	320	P	05	17.00	0.2	
			eSg	05	34.00		
MSI	1.36	208	P	05	23.30	-0.2	
			eSn	05	42.80		
SGO	1.40	325	Pd	05	24.30	0.3	
			eSn	05	44.90		
ATN	1.44	210	P	05	24.00	-0.6	
			eSn	05	42.80		
LCI	1.53	53	Pd	05	27.40	1.5	
			eSn	05	49.00		
BRT	1.60	24	P	05	27.40	0.5	
			eSn	05	49.00		
BAI	1.75	13	P	05	30.00	1.0	
MNO	1.97	222	P	05	32.70	0.2	
			eSn	05	58.60		
GIB	2.32	233	P	05	36.90	-0.5	
			eSn	06	05.40		
MEU	2.57	206	P	05	41.60	0.6	
DUI	2.67	328	P	05	43.00	0.6	
KEK	2.67	83	ePg	05	42.00	-0.4	
SDI	3.00	321	P	05	47.80	0.8	
FAI	3.00	226	P	05	49.70	2.7X	
IGT	3.08	87	iPc	05	48.52	0.5	
			iS	06	07.88		
ULC	3.36	40	ePn	05	52.10	0.0	
			eSn	06	31.00		
AZI	3.40	320	P	05	53.80	1.2	
HCY	3.44	27	ePn	05	52.20	-0.9	
			eSn	06	33.00		
VLS	3.53	109	ePb	05	53.80	-0.7	
RDP	3.63	311	P	05	56.80	0.8	
RMP	3.67	312	P	05	57.10	0.5	
AQU	3.69	324	P	05	57.50	0.6	
TTG	3.73	35	ePn	05	57.00	-0.3	
			eSn	06	38.00		
HVAR	3.76	1	iPn	05	57.10	-0.7	
			iSn	07	06.00		
OHR	3.79	62	ePn	05	58.70	0.3	
BRY	3.85	25	ePn	05	58.80	-0.4	
			eSn	06	43.00		
NKY	3.94	30	ePn	06	00.00	-0.3	
			eSn	06	45.00		
MNS	4.07	318	P	06	03.20	1.0	
FNA	4.08	69	iPc	06	02.68	0.3	
PVY	4.19	40	ePn	06	04.00	0.0	
			eSn	06	52.00		
KZN	4.26	76	ePn	06	06.80	1.8	
IVA	4.37	37	ePn	06	07.00	0.6	
			eSn	06	55.00		
CIO	4.49	328	ePn	06	08.80	0.7	
PLE	4.53	29	ePn	06	09.00	0.2	
			eSn	06	59.00		
ASS	4.59	324	P	06	10.00	0.3	
SKO	4.63	55	ePn	06	09.50	-0.7	
			iSn	06	53.60		
			Lg	07	06.80		
AGG	4.65	93	iPc	06	12.20	1.7	
ARV	4.82	329	P	06	11.50	-1.3	
GRG	4.88	70	iPc	06	14.16	0.5	
			iS	06	46.48		
MAO	4.96	309	P	06	14.40	-0.3	
VAY	5.11	66	ePn	06	17.00	0.1	
THE	5.21	74	iPc	06	18.20	-0.2	
KNT	5.30	69	iPc	06	18.90	-0.7	
SOH	5.54	73	iPc	06	23.08	0.0	
PAIG	5.67	83	iPc	06	24.56	-0.3	
SRS	5.79	71	iPc	06	26.60	0.1	
VLI	5.85	115	ePn	06	27.80	0.5	
VBY	6.14	353	ePn	06	32.90	1.5	
			eSn	07	43.30		
BEO	6.20	28	ePn	06	30.00	-2.2	
LJU	6.76	349	eP	06	28.00	-12.2X	
			e	06	41.00		
			eSn	07	57.00		
VOY	6.86	345	e(Pn)	06	41.00	-0.6	
BZS	7.31	30	eP	06	47.00	-0.9	
CTI	7.48	334	P	06	48.70	-1.6	
ALN	7.56	76	iPc	06	50.32	-1.1	
FVI	7.64	341	P	06	51.50	-0.9	
KBA	7.97	345	iPnc	06	56.20	-1.1	
	0.6s		5.20nm			4.9mb X	
			i	07	05.20		
			i	08	24.30		
			i	08	27.70		
			i	08	30.30		
KHC	9.92	349	eP	07	35.50	11.5X	
NB2	21.88	353	P	09	52.80	-0.3	
	0.5s		1.40nm			3.6mb	
KAF	23.53	12	eP	10	10.20	1.1	
YKA	71.08	338	eP	16	15.80	-2.4X	
	0.6s		0.50nm			3.8mb	
	S.D. = 0.8		on 61 of 65 obs.				

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* MAR 30, 1991 03h 39m 41.01± 0.49s
15.545 S ±21.4km 175.139 W ±14.9km
DEPTH = 33.0km (normal)
4.5mb (8 obs.) 4.7Msz (3 obs.)
TONGA ISLANDS (173)

DZM	18.59	247	iPc	43	58.40	0.6	
WB2	48.16	257	eP	48	20.00	-0.4	
	1.1s		3.10nm			4.2mb	
			i	49	49.60		
WRA	48.18	257	P	48	20.00	-0.5	
	0.8s		3.00nm			4.4mb	
ASPA	48.47	252	iPd	48	20.80	-2.0	
	0.8s		17.60nm			5.1mb	
Z	22s		1.60um			5.0Msz	
GCC	72.36	42	eP	51	06.10	0.4	
PRS	72.37	43	eP	51	06.30	0.5	
PCC	72.39	42	eP	51	05.00	-0.9	
SAO	72.57	43	eP	51	06.60	-0.4	
MHC	72.78	42	eP	51	09.00	0.7	
LLA	72.81	43	eP	51	09.20	0.8	
FRI	73.84	43	eP	51	14.30	0.0	
CMB	73.99	42	eP	51	14.70	-0.6	
WDC	74.14	39	eP	51	16.30	0.3	
ORV	74.16	40	eP	51	15.80	-0.4	
SPA	74.55	180	iPc	51	18.10	-0.2	
	1.0s		20.00nm			5.1mb	
TNP	76.09	44	ePd	51	26.30	-1.3	
PNT	81.04	33	eP	51	54.00	-0.1	
ALQ	82.18	51	eP	51	59.80	-0.7	
	1.2s		7.42nm			4.6mb	
Z	20s		0.35um			4.7Msz	
ANMO	82.18	51	eP	52	00.00	-0.5	
FBA	82.86	11	e(P)	52	03.30	0.2	
IMA	82.95	9	eP	52	09.80	6.0X	
	1.0s		2.80nm			4.3mb	
BW06	83.50	42	eP	52	06.00	-1.2	
	0.8s		3.57nm			4.6mb	
BJI	84.36	314	eP	52	19.00	7.8X	
SES	86.28	35	eP	52	21.00	0.3	
INK	88.82	14	eP	52	32.00	-0.5	
YKA	90.90	24	eP	52	41.70	-0.6	
	1.1s		1.80nm			4.3mb	
MOX	144.57	353	e(PKP)	59	21.00	5.3X	
BNS	144.62	357	ePKPd	59	16.00	0.2	
	1.0s		18.00nm				
PRU	144.76	349	ePKP	59	17.80	1.8	
MLR	145.28	334	ePKP	59	18.00	0.7	
GRF	145.55	353	ePKP	59	20.10	2.6	
Z	20s		0.10um			4.6Msz	
ABH	145.68	357	ePKP	59	19.14	1.4	
KHC	145.75	350	ePKP	59	22.80	5.0X	
			e	59	27.00		
OHR	151.02	335	ePKP	59	33.00	6.6X	
	S.D. = 1.0		on 29 of 34 obs.				

MAR 30, 1991 06h 51m 53.36± 0.52s
37.769 N ± 6.6km 18.559 E ± 3.1km
DEPTH = 10.0km (geophysicist)
IONIAN SEA (399)
MD 3.3 (ATH), 3.0 (THE).

VLS	1.66	75	iPbc	52	22.50	-0.1	
			eSb	52	43.80		
ATN	2.48	280	P	52	35.10	0.7	
			eSn	53	03.00		
TDS	2.57	318	P	52	36.70	1.1	
			eSn	53	03.40		
LCI	2.60	350	P	52	35.90	-0.3	
			eSn	53	05.80		
MEU	2.96	258	P	52	40.40	-1.0	
			eSn	53	13.80		
MNO	3.06	274	P	52	42.20	-0.7	
AGG	3.22	66	ePc	52	45.92	1.0	
			eS	53	23.24		
BRT	3.28	342	P	52	45.00	-0.8	
			eSn	53	21.50		
MGR	3.33	316	P	52	46.60	0.1	
			eSn	53	23.60		
GIB	3.59	275	P	52	50.80	0.5	
VLI	3.65	105	ePn	52	51.50	0.5	
FNA	3.72	35	iPd	52	52.84	0.7	
			eS	53	34.56		
OHR	3.76	27	ePn	52	53.00	0.3	
			Lg	53	37.00		
SGO	3.76	319	P	52	53.00	0.4	
GRG	4.36	42	ePd	53	00.80	-0.4	
			iS	53	49.80		
PAIG	4.54	60	iPd	53	02.96	-0.7	
			eS	53	52.60		
VAY	4.71	40	ePn	53	05.40	-0.7	
SKO	4.75	27	ePg	53	20.00	13.3X	
			iSg	53	57.00		
KNT	4.77	43	ePc	53	04.04	-3.0X	
SOH	4.81	49	ePd	53	07.60	0.0	
			eS	54	00.12		
OUR	4.94	57	ePc	53	09.60	0.3	
SRS	5.13	48	ePd	53	11.36	-0.7	

30d 06h

S.D. = 0.7 on 20 of 22 obs.

MAR 30, 1991 07h 37m 52.05± 0.30s
16.111 S ±10.6km 174.826 W ± 6.0km
DEPTH = 19.7km (6 depth phases)
5.1mb (22 obs.) 5.2Msz (4 obs.)
TONGA ISLANDS (173)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 18S, 43C
Centroid Locotion:
Origin Time 07:38: 6.1 1.1
Lat 15.01S 0.10 Lon 174.86W 0.06
Dep 15.0 FIX Half-duration 2.1
Moment Tensor; Scale 10**17 Nm
Mrr=-0.01 0.07 Mtt=-1.08 0.12
Mff= 1.09 0.12 Mrt= 0.06 0.25
Mrf= 0.79 0.28 Mtf=-1.51 0.06
Principol Axes:
T Vol= 2.09 Plg=18 Azm=245
N -0.14 67 27
P -1.95 13 150
Best Double Couple:Mo=2.0*10**17
NP1:Strike=287 Dip=68 Slip= 176
NP2: 18 86 22

SVA	6.72	252	eP	39 32.30	0.1
SGE	7.10	257	eP	39 41.70	4.1X
DZM	18.66	249	iPc	42 12.80	1.7
PAE	24.20	97	iP	43 09.90	1.4
	1.1s	55.00nm		5.0mb	
PPT	24.21	97	iP	43 09.90	1.3
	1.1s	75.00nm		5.2mb	
PPN	24.34	97	iP	43 11.20	1.3
	1.1s	40.00nm		4.9mb	
TBI	24.91	111	iP	43 03.30	-12.0X
	1.2s	90.00nm			
HNR	25.47	282	eP	43 21.00	0.4
			eS	47 55.00	
SVO	25.68	283	P	43 14.00	-8.6X
PMO	25.96	91	iP	43 24.60	-0.6
	1.1s	60.00nm		5.2mb	
RMO	35.36	247	eP	44 47.00	-1.5
			i	44 53.00	20km
CTA	37.15	258	iPc	45 04.20	0.6
	1.2s	25.00nm		4.9mb	
			iS	50 50.00	
PMG	37.63	275	e(P)	45 06.00	-1.7
CMS	38.89	240	eP	45 16.00	-2.1
TOO	40.96	231	eP	45 34.50	-0.7
STK	42.50	240	iPc	46 02.60	14.7X
	1.0s	12.70nm			
			eS	52 20.50	
BFD	43.05	232	eP	45 52.00	-0.3
ADE	45.48	237	eP	46 11.00	-1.0
WRA	48.35	257	P	46 39.00	4.3X
	0.7s	4.20nm		4.6mb	
ASPA	48.59	253	iPc	46 35.10	-1.5
	0.8s	40.30nm		5.5mb	
			i	48 33.20	684kmX
SBA	62.44	184	iPc	48 23.00	7.3X
PRS	72.57	43	eP	49 20.20	0.2
GCC	72.58	42	eP	49 19.90	-0.1
PCC	72.61	41	eP	49 19.50	-0.6
SAO	72.78	42	eP	49 20.80	-0.4
BRK	72.92	41	eP	49 22.10	0.2
PRI	72.92	43	eP	49 22.80	0.6
BKS	72.93	41	iPd	49 22.20	0.2
	0.9s	69.00nm		5.7mb	
			eLQ	07 58.00	
			eLR	08 04.00	
			eLQ	10 56.00	
			eLR	10 56.00	
MHC	72.99	42	eP	49 22.60	0.0
LLA	73.02	43	eP	49 21.40	-1.2
MWC	73.61	46	eP	49 15.00	-11.3X
RVR	73.97	47	eP	49 27.00	-1.1
PLM	73.99	48	eP	49 34.00	5.5X
SPA	73.99	180	iPc	49 33.20	5.2X
	1.0s	30.00nm		5.3mb	
SBB	74.03	46	eP	49 28.00	-0.6
FRI	74.04	43	eP	49 28.50	0.0
CMB	74.20	42	ePc	49 29.00	-0.5
WDC	74.39	39	ePc	49 29.80	-0.6
ORV	74.40	40	eP	49 30.10	-0.4
CLC	74.80	45	eP	49 33.00	0.0
TPC	74.96	47	eP	49 34.00	0.0

GSC	75.06	46	eP	49 54.00	19.4X
TNP	76.29	43	P	49 41.00	-0.7
	1.2s	20.16nm		5.0mb	
			pP	49 46.50	18km
TTA	80.15	9	eP	50 07.80	5.7X
CN2	80.75	321	eP	50 08.00	2.4
	Z 22s	1.80um		5.4Msz	
SNY	80.88	318	eP	50 05.80	-0.5
	1.6s	40.00nm		5.2mb	
	Z 20s	0.70um		5.0Msz	
			pP	50 14.60	28km
PNT	81.35	33	eP	50 08.00	-0.6
	1.1s	29.00nm		5.2mb	
NEW	82.07	35	P	50 10.60	-1.8
	1.3s	5.66nm		4.5mb	
ALQ	82.31	50	eP	50 14.00	-0.2
	1.5s	32.64nm		5.2mb	
	Z 22s	1.11um		5.2Msz	
ANMO	82.31	50	P	50 14.40	0.2
	1.3s	18.75nm		5.0mb	
			pP	50 19.90	17km
FBA	83.35	11	eP	50 18.60	-0.1
LRM	83.42	39	eP	50 19.70	-0.1
IMA	83.46	9	eP	50 22.30	2.9X
	1.4s	17.40nm		5.1mb	
BW06	83.72	42	P	50 19.50	-1.8
	1.1s	6.55nm		4.8mb	
			pP	50 25.00	17km
BJI	84.96	314	eP	50 28.50	1.2
	1.2s	18.00nm		5.2mb	
	Z 24s	0.63um		4.9MszX	
GOL	85.14	46	P	50 28.40	-0.1
	1.0s	7.50nm		4.9mb	
SES	86.57	35	eP	50 34.00	-1.1
TIY	86.66	311	P	50 37.40	1.5
	N 20s	0.90um			
			pP	50 43.00	18km
EDM	86.81	32	eP	50 35.50	-0.7
XAN	87.93	306	eP	50 43.30	1.2
HHC	88.51	313	eP	50 46.90	2.2
INK	89.29	14	eP	50 47.00	-0.7
BTO	89.50	313	eP	50 53.00	3.6X
KMI	90.10	296	eP	50 59.50	6.8X
	Z 30s	0.70um		4.9MszX	
YKA	91.29	24	eP	50 56.70	-0.4
	1.3s	6.00nm		4.8mb	
LZH	92.54	307	e(P)	51 00.00	-3.7X
	2.0s	18.00nm		5.1mb	
	Z 40s	1.46um		5.1MszX	
FFC	93.45	34	eP	51 11.00	3.8X
	1.5s	29.00nm		5.5mb	
KSP	144.22	348	ePKP	57 28.50	0.3X
CLL	144.33	352	ePKP	57 32.00	3.7X
BRG	144.61	350	ePKP	57 33.70	4.9X
SPC	144.79	343	ePKP	57 30.10	0.6
MOX	145.16	353	ePKP	57 31.00	1.2
	1.7s	34.00nm			
BNS	145.20	358	iPKPd	57 30.30	0.5
	1.5s	72.00nm			
PRU	145.37	349	PKP	57 31.30	1.1
	1.5s	22.30nm			
			e	57 42.00	
SNF	145.68	1	PKP	57 33.30	2.7X
MLR	145.92	334	ePKP	57 33.00	1.6
DOU	146.10	1	PKP	57 37.40	6.0X
GRF	146.15	353	ePKP	57 34.10	2.6X
	Z 22s	0.50um		5.3Msz	
ABH	146.26	357	ePKP	57 36.92	5.2X
KHC	146.36	350	PKPc	57 34.60	2.7X
	1.4s	22.00nm			
ZST	146.53	345	ePKP	57 36.70	4.6X
GRR	147.43	7	ePKP	57 35.30	1.7
	0.9s	18.00nm			
BZS	147.51	338	ePKP	57 36.50	2.7X
HRI	147.56	307	ePKP	57 38.00	3.6X
KBA	148.39	349	e(PKP)	57 40.00	4.6X
	1.1s	8.10nm			
DSI	148.51	305	ePKP	57 40.00	4.2X
LOR	148.91	2	ePKP	57 38.40	2.4X
	1.3s	18.05nm			
SSF	149.11	2	ePKP	57 39.10	2.8X
	1.2s	22.30nm			
PRNI	149.26	303	ePKP	57 41.50	4.4X
VBY	149.50	346	e(PKP)	57 45.50	8.6X
MAF	149.90	4	ePKP	57 46.00	8.5X
	1.3s	36.10nm			
LPL	150.66	358	ePKP	57 43.80	4.8X

SKO	150.67	335	ePKP	57 44.60	5.8X
LPG	150.67	358	ePKP	57 44.00	4.9X
	1.3s	21.65nm			
OHR	151.66	335	ePKP	57 44.30	3.9X

S.D. = 1.1 on 57 of 95 obs.

% MAR 30, 1991 07h 38m 07.57± 0.91s
40.707 N ± 6.3km 27.419 E ± 8.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

EDC	0.49	137	ePg	38 17.50	-0.:
BNT	0.52	132	iPg	38 18.30	6.2
CTT	0.88	60	iPg	38 24.30	-0.2
			iSg	38 37.30	
DMK	1.14	13	ePn	38 29.10	0.2
EZN	1.21	224	ePn	38 30.10	-0.1

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

MAR 30, 1991 08h 49m 27.06± 0.37s
44.769 N ± 3.1km 7.893 E ± 3.8km
DEPTH = 33.0km (normal)
NORTHERN ITALY (545)
ML 2.6 (LDG), 2.5 (GEN).

CKI	0.44	141	P	49 37.40	0.6
			eSg	49 44.90	
BHB	0.45	279	P	49 37.13	0.1
			S	49 43.69	
ROB	0.47	182	P	49 37.74	0.4
			S	49 45.43	
PCP	0.52	116	P	49 38.05	0.0
			S	49 45.74	
DOI	0.53	240	P	49 39.00	0.8
			eSg	49 44.00	
RSP	0.59	311	P	49 38.66	-0.4
			S	49 46.97	
FIN	0.60	158	P	49 39.07	-0.1
			S	49 47.48	
PZZ	0.62	245	P	49 39.38	-0.2
			S	49 47.17	
ENR	0.64	212	P	49 39.38	-0.4
			S	49 48.10	
STV	0.66	218	P	49 39.59	-0.5
			S	49 48.30	
RRL	0.80	281	P	49 42.25	0.1
			S	49 53.33	
IMI	0.86	180	P	49 42.76	-0.1
			S	49 53.84	
LSD	0.86	323	P	49 42.76	-0.3
			S	49 53.53	
ORX	0.87	4	P	49 42.46	-0.5
			S	49 52.61	
BNI	0.91	289	P	49 44.30	0.7
			eSg	49 56.40	
S8F	0.96	200	Pn	49 44.40	0.1
			Sn	49 57.60	
LPG	1.09	312	Pn	49 47.00	0.7
			Sn	50 00.80	
FRF	1.50	217	Pn	49 52.00	0.0
			Sn	50 10.40	
LRG	1.72	221	Pn	49 54.60	-0.4
			Sn	50 14.60	
LMR	1.75	215	Pn	49 55.00	-0.5
			Sn	50 15.60	
PGF	2.36	160	Pn	50 02.00	-2.4X
			Sn	50 27.00	

S.D. = 0.4 on 20 of 21 obs.

* MAR 30, 1991 09h 24m 03.11± 1.98s
7.218 S ± 8.3km 128.929 E ± 9.4km
DEPTH = 127.8 ± 21.2 km
4.9mb (6 obs.)
BANDA SEA (280)

MTN	6.00	159	eP	25 30.50	-0.3
WB2	13.70	158	iPd	27 08.80	-4.5X
	0.2s	79.50nm		5.7mb X	
			iS	29 32.00	
			iPcP	32 59.00	
MBL	16.42	211	iPd	27 49.20	1.8
			eS	30 42.00	
QIS	16.82	143	iP	27 50.00	-2.3
			eS	30 45.00	
ASPA	17.04	164	eP	27 54.60	-0.5
	0.3s	29.70nm		5.1mb	
			iS	30 53.00	

```
PMG     18.16  98 eP    28 10.00   1.4
WARB    18.99 186 iPd   28 28.20  10.8X
        0.4s    22.00nm
                  eS    31 57.00
CTA     21.11 129 iPd   28 39.50   0.3
        0.9s    15.13nm          4.4mb
MEKA    21.68 206 eP    28 45.00   0.3
        0.4s    14.00nm          4.7mb
                  eS    32 43.00
COOL    24.65 196 eP    29 13.00  -0.4
BAL     25.94 205 eP    29 25.70   0.5
                  e     29 56.00
                  eS    34 25.00
KLB     26.40 202 eP    29 29.50   0.0
                  e     30 01.50
STK     27.23 156 iPd   29 56.30  19.3X
        0.5s    4.20nm
                  i     30 22.80
                  e     35 06.00
MUN     27.34 204 eP    29 37.40  -0.6
                  e     30 11.70
                  eS    35 02.00
NWAO    27.79 201 eP    29 41.90  -0.1
                  e     30 20.00
ADE     29.05 163 eP    30 03.00   9.6X
BFD     32.29 159 eP    30 22.00   0.2
                  e     31 03.00
                  e     36 46.00
TOO     33.75 156 eP    30 35.50   1.0
KMI     41.03 322 eP    31 37.50   1.8
KOD     54.10 288 eP    33 18.00   0.4
GUN     54.30 312 P     33 18.60  -0.4
        0.4s    25.00nm          5.5mb
PKI     54.46 311 P     33 19.56  -0.6
KKN     54.68 311 P     33 21.10  -0.5
DMN     54.71 311 P     33 21.40  -0.5
GBA     55.15 292 Pc    33 23.70  -1.1
        0.6s    1.90nm           4.2mb
GKN     55.27 311 P     33 25.28  -0.5
        0.4s    34.00nm          5.6mb
YKA    108.41  26 ePKP  42 08.30  -9.3X
        0.8s    0.60nm
CNCB   150.85 145 PKP   43 44.00   6.3X
LPB    151.00 145 ePKP  43 45.00   7.3X
ZOBO   151.20 144 PKP   43 44.00   5.8X
        1.1s    11.60nm
     Z  24s     0.18um          4.8MszX
                  i     44 16.00
                  LR    56 14.00
SIV    154.90 157 PKPc  43 23.00 -19.7X
     S.D. = 1.0  on  22 of  31 obs.
```

```
*  MAR  30, 1991  09h 28m 32.75± 2.49s
   33.137 S ± 7.5km   71.772 W ±20.4km
   DEPTH =  17.2 ± 10.9 km
 NEAR COAST OF CENTRAL CHILE        (135)

IHA     0.16  45 iPc   28 36.70  -0.4
                 iS    28 42.50
LCCH    0.38 153 iPd   28 41.10   0.5
                 iS    28 49.50
ROCH    0.66  76 iPd   28 45.00  -0.6
                 iS    28 58.00
TACH    0.87 127 iPd   28 49.50   0.5
                 iS    29 05.00
LNV     0.87 160 iPc   28 48.10  -0.9
                 iS    29 03.50
PEL     0.91  91 iPd   28 50.10   0.3
                 iS    29 07.00
SAN     0.98 109 iPc   28 51.50   0.5
                 iS    29 09.50
JACH    1.09  66 iP    28 51.50  -1.4
                 iS    29 08.50
PCH     1.16 115 iPd   28 54.00   0.0
                 iS    29 14.00
MDZ     2.47  85 iP    29 17.60   4.7X
                 iS    29 53.60
ZON     3.06  60 eP    29 21.70   0.4
RTLL    3.33  58 ePc   29 26.30   1.2
                 eS    30 13.80
CFA     3.36  64 e(P)  29 27.10   1.6
TCA     6.34  76 ePc   30 05.60  -2.2
                 (S)   31 22.70
INK   110.94 339 ePdiff43 08.50   2.3X
                 pP    43 25.00
     S.D. = 1.2  on  13 of  15 obs.
```

```
?  MAR  30, 1991  09h 59m 54.06± 0.98s
   39.068 N ± 8.3km   27.671 E ± 9.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)

IZM     0.74 206 ePg   00 08.60   0.0
                 eSg   00 20.60
DST     0.92  54 ePn   00 11.70   0.1
EZN     1.29 306 ePn   00 18.00   0.1
BNT     1.30   8 ePn   00 18.00  -0.1
     S.D. = 0.2  on   4 of   4 obs.
```

```
?  MAR  30, 1991  10h 00m 47.17± 0.94s
   39.095 N ± 8.0km   27.562 E ± 9.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)

IZM     0.73 199 ePg   01 01.60   0.0
                 eSg   01 13.10
DST     0.97  58 ePn   01 05.70   0.0
EZN     1.20 308 ePn   01 09.60   0.0
BNT     1.29  12 ePn   01 11.00  -0.1
     S.D. = 0.1  on   4 of   4 obs.
```

```
?  MAR  30, 1991  10h 56m 49.72±13.50s
   30.313 S ±109.km   69.017 W ±80.5km
   DEPTH = 100.0km  (geophysicist)
 CHILE-ARGENTINA BORDER REGION      (127)

RTLL    1.12 155 iPc   57 12.00   0.2
                 eS    57 25.80
RTCB    1.18 171 iPd   57 12.90   0.3
ZON     1.26 167 eP    57 13.00  -0.5
                 eS    57 28.00
CFA     1.45 153 iPc   57 15.90   0.1
                 eS    57 31.80
TCA     3.94 106 ePd   57 49.20   0.0
     S.D. = 0.4  on   5 of   5 obs.
```

```
?  MAR  30, 1991  11h 06m 34.83± 1.59s
   44.032 N ±15.2km   11.270 E ±11.6km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                     (545)
      MD 2.4 (ROM).

FIR     0.25 182 iPgc  06 40.50   0.3
                 iSg   06 45.00
MME     0.44 292 P     06 44.50   0.6
                 eSg   06 52.00
BDI     0.49 274 P     06 44.00  -0.7
                 eSg   06 51.40
CRE     0.64 129 P     06 47.50  -0.2
                 eSg   06 58.00
     S.D. = 1.0  on   4 of   4 obs.
```

```
*  MAR  30, 1991  11h 26m 11.40± 1.22s
   7.881 S ±10.6km  146.760 E ±19.6km
   DEPTH =  10.0km  (geophysicist)
   4.0mb (  2 obs.)
 EAST PAPUA NEW GUINEA REGION       (207)

PMG     1.57 166 iPc   26 38.40  -0.9
YYYY    1.81 334 iPd   26 42.80  -0.2
WB2    16.98 224 eP    30 10.60  -0.1
       0.5s     3.40nm          3.7mb
                 i     30 22.60
WRA    16.99 224 P     29 55.00 -15.8X
       0.7s     1.30nm
ASPA   19.96 217 iPc   30 47.00   0.2
       0.8s    10.10nm          4.2mb
BRS    20.23 164 iPd   30 50.50   1.0
     S.D. = 1.0  on   5 of   6 obs.
```

```
%  MAR  30, 1991  12h 52m 41.41± 2.31s
   39.665 N ±17.8km   29.356 E ±11.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)

DST     0.57 264 ePg   01 03.70  -0.2
                 eSg   01 15.00
IZI     0.68   8 iPg   01 06.10   0.2
YLV     0.90   1 iPn   01 09.10  -0.6
KCT     0.96 308 ePn   01 10.70  -0.1
EYL     1.09  34 ePn   01 13.20   0.2
BNT     1.30 303 ePn   01 17.00   0.5
     S.D. = 0.5  on   6 of   6 obs.
```

```
%  MAR  30, 1991  12h 07m 21.44± 0.85s
   39.496 N ± 6.8km   27.931 E ± 8.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)

DST     0.55  78 iPg   07 31.90  -0.7
                 iSg   07 39.20
KCT     0.82  23 ePg   07 36.70  -0.6
EDC     0.85 357 ePg   07 37.50  -0.3
BNT     0.86 359 ePg   07 38.20   0.2
IZM     1.21 206 ePn   07 44.00  -0.1
IZI     1.45  54 ePn   07 49.00   1.2
YLV     1.54  46 iPn   07 49.20   0.2
     S.D. = 0.8  on   7 of   7 obs.
```

```
%  MAR  30, 1991  12h 10m 06.36± 2.87s
   39.605 N ±22.0km   29.373 E ±14.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)

DST     0.58 270 ePg   10 18.00  -0.1
                 eSg   10 22.20
IZI     0.74   6 iPg   10 21.20   0.4
YLV     0.96 360 iPn   10 24.20  -0.5
KCT     1.01 310 ePn   10 25.70   0.2
EYL     1.13  32 iPn   10 27.70   0.0
BNT     1.35 304 ePn   10 34.00   2.9X
     S.D. = 0.4  on   5 of   6 obs.
```

```
   MAR  30, 1991  12h 58m 34.19± 0.29s
   71.083 N ± 4.2km    7.568 W ± 4.2km
   DEPTH =  10.0km  (geophysicist)
   4.9mb ( 51 obs.)  4.5Msz (  7 obs.)
 JAN MAYEN ISLAND REGION            (639)
      MD 4.3 (BER).
      CENTROID, MOMENT TENSOR       (HRV)
      Data Used: GDSN
      L.P.B.: 12S, 19C
      Centroid Location:
      Origin Time        12:58:43.1 1.0
      Lat 71.41N 0.14 Lon   8.08W 0.21
      Dep  15.0 FIX Half-duration  1.5
      Moment Tensor;   Scale 10**16 Nm
        Mrr=-0.74 0.35  Mtt= 4.56 0.60
        Mff=-3.82 0.47  Mrt= 0.00 0.00
        Mrf= 0.00 0.00  Mtf= 4.32 0.33
       Principol Axes:
        T  Val=  6.39  Plg= 0  Azm=157
        N       -0.74       90       180
        P       -5.65        0        67
      Best Double Couple:Mo=6.0*10**16
       NP1:Strike=202 Dip=90 Slip=-180
       NP2:       292     90         0

JNE     0.26 249 iPgc  58 40.25   0.6
JNW     0.29 259 iPgd  58 40.69   0.5
JMI     0.41 248 iPgd  58 42.81   0.2
DAG     6.49 337 iPd   00 08.00  -4.0X
       0.5s    81.69nm          5.9mb X
                 ipP   01 19.00
AKU     6.66 221 eP    00 12.50  -1.9
       1.0s   108.00nm          5.8mb X
                 iS    01 32.90
TRO     9.00  87 eP    00 42.36  -4.6X
                 eS    02 19.61
KBS     9.27  24 iPc   00 48.50  -2.2
NSS     9.84 122 eP    00 54.48  -4.1X
                 eS    02 38.11
MOL    10.37 138 eP    00 59.25  -6.6X
                 eS    02 50.76
FRO    10.58 146 iP    01 03.93  -4.7X
                 eS    02 53.52
KTK1   10.65  86 eP    01 06.10  -3.6X
RGS    10.66 130 iP    01 05.50  -4.3X
                 eS    02 55.50
FOO    10.75 146 iP    01 07.08  -4.0X
                 eS    02 57.47
SUE    11.21 148 eP    01 11.36  -5.9X
                 eS    03 08.17
HYA    11.37 144 eP    01 14.18  -5.2X
                 eS    03 12.71
KEV    11.57  80 iP    01 15.20  -6.9X
                 e     03 20.00
ASK    11.82 148 eP    01 21.11  -4.5X
                 eS    03 24.19
NB2    12.56 134 P     01 32.20  -3.3X
       0.8s    13.50nm          5.2mb
```

30d 13h

SOD		12.56	90	iP	01	31.00	-4.5X	ZLA		24.86	154	ePd	03	58.80	1.0			1.0s	3.75nm		4.5mb	
				i	03	50.00		AVF		24.92	162	eP	03	57.50	-0.8	HHC		60.30	50	eP	08	47.00	2.0
ODD1		12.61	146	eP	01	31.00	-5.3X			0.9s	13.90nm			4.6mb		TNP		60.39	301	e(P)	08	50.00	4.3X
KMY		13.03	150	eP	01	35.82	-5.9X	BGF		25.10	163	eP	03	59.40	-0.7			1.0s	2.00nm		4.2mb	
				eS	03	51.48				1.0s	38.00nm			5.0mb		CN2		60.60	37	eP	08	52.00	5.2X
HFS		13.95	131	eP	01	50.60	-3.2X	SMF		25.12	161	eP	03	58.60	-1.6		Z	14s	0.60um		4.9MszX	
		1.1s	64.70nm			5.4mb				1.1s	58.60nm			5.2mb						eS	17	08.00	
	Z	15s	2.51um			4.5MszX		LSF		25.29	165	eP	04	00.00	-1.8	CMB		61.31	304	eP	08	55.00	3.2X
			LR		05	48.00				1.0s	18.00nm			4.7mb		NDI		61.48	85	eP	08	52.50	-0.5
UPP		15.19	125	iP	02	08.60	-1.5	TCF		25.31	164	eP	04	00.30	-1.8	LKO		61.50	178	P	08	53.54	0.4
				iS	04	46.10				1.0s	32.00nm			5.0mb				0.9s	24.00nm		5.3mb	
KAF		15.92	107	eP	02	17.40	-2.1	BHG		25.36	147	eP	04	03.90	1.4	BJI		62.18	46	eP	09	03.00	5.5X
		0.4s	14.50nm			4.5mb				1.3s	143.00nm			5.5mb			Z	14s	0.64um		4.9MszX	
EKA		15.93	171	P	02	20.00	0.4	MAF		25.41	163	eP	04	02.00	-1.0	LZH		62.75	58	eP	09	06.50	4.9X
		0.9s	14.30nm			4.1mb				0.9s	26.20nm			4.9mb				1.5s	31.00nm		5.3mb	
MUD		16.33	145	eP	02	37.00	12.3X	SPC		25.49	135	eP	04	04.60	0.7		Z	18s	0.77um		4.9Msz	
		1.0s	24.00nm					VKA		25.50	141	eP	04	06.00	2.2					pP	09	12.50	19kmX
NUR		16.66	113	iP	02	26.50	-2.4					i	04	17.70		TIC		64.38	177	P	09	10.32	-1.9
		1.2s	159.00nm			5.0mb		LLS		25.55	153	ePd	04	05.10	0.6	GKN		64.51	78	P	09	12.56	-0.6
			i		05	23.90		ZST		25.73	140	eP	04	08.70	2.8			1.2s	153.00nm		6.1mb X	
			i		06	19.60		OSS		25.90	151	ePd	04	08.80	1.0	KIC		64.67	177	P	09	12.62	-1.4
BSD		18.76	137	eP	02	56.00	1.0	VDL		26.00	152	ePd	04	11.10	2.5X	LIC		64.80	177	P	09	13.60	-1.3
		1.3s	100.00nm			4.9mb		EMS		26.05	157	ePd	04	10.20	1.1		Z	20s	0.31um		4.5Msz	
ECB		18.79	179	eP	02	55.10	-0.2	KBA		26.06	146	iPc	04	10.30	1.1	KKN		64.91	78	P	09	15.32	-0.5
ECP		18.98	178	eP	02	58.00	0.4			1.0s	45.70nm			5.1mb				0.8s	40.00nm		5.7mb	
WTS		20.23	154	eP	03	11.00	-0.7					i	04	12.70		LSA		64.98	72	eP	09	17.80	1.2
		1.2s	119.00nm			5.1mb						i	04	21.60		GUN		64.99	77	P	09	16.24	-0.3
UCC		21.08	159	P	03	23.00	2.5	DIX		26.10	156	ePd	04	10.40	0.7			1.0s	135.00nm		6.1mb X	
BNS		21.29	154	iPd	03	22.60	0.0	MMK		26.20	155	ePd	04	11.80	1.2	DMN		65.02	78	P	09	16.36	-0.3
		1.8s	198.00nm			5.2mb		RJF		26.23	165	eP	04	09.40	-1.2	PKI		65.15	78	P	09	19.54	2.0X
ENN		21.31	156	iP	03	22.20	-0.6			0.7s	19.85nm			4.9mb				1.1s	37.00nm		5.5mb	
		1.0s	101.00nm			5.2mb			Z	21s	1.17um			4.4Msz		XAN		66.05	54	eP	09	24.10	1.2
SNF		21.35	159	P	03	23.20	0.0	FVI		26.43	147	P	04	16.40	4.0X	CD2		67.59	60	eP	09	33.50	0.8
DOU		21.80	159	P	03	29.60	1.9	VAI		26.50	154	P	04	14.50	1.5	HYB		72.41	88	eP	10	01.00	-1.2
CLL		21.94	144	eP	03	29.00	-0.1	LFF		26.53	167	eP	04	12.70	-0.6	GYA		72.61	59	P	10	08.80	5.4X
		1.4s	74.00nm			4.9mb				0.9s	21.30nm			4.8mb		GBA		75.61	90	Pd	10	18.90	-1.8
TNS		22.20	152	ePc	03	31.50	-0.3	LPL		26.57	157	eP	04	12.90	-1.0			0.8s	5.30nm		4.7mb	
MOX		22.32	147	eP	03	33.00	0.1			0.8s	17.45nm			4.8mb		KOD		78.78	91	eP	10	39.60	0.9
		1.5s	110.00nm			5.1mb		LPG		26.59	157	eP	04	13.30	-0.9	SIV		94.14	231	(P)	11	54.00	0.2
			e		03	37.00				1.0s	38.00nm			5.0mb		CCH		96.79	235	(P)	11	54.00	-12.3X
ABH		22.40	154	eP	03	33.93	0.2	PSZ		26.60	136	eP	04	15.00	1.0	WARB		128.26	55	ePdiff	14	27.50	1.5X
BRG		22.54	143	iPc	03	35.70	0.6	CAF		26.65	165	eP	04	13.40	-1.1	DZM		130.85	7	iPKPd	17	44.70	-2.1
		1.0s	20.00nm			4.6mb				0.9s	18.85nm			4.8mb				S.D. = 1.3	on 107 of 146 obs.				
			e		03	38.70		BNI		27.02	157	P	04	19.30	1.4	---							
			e		03	56.00		MBC		27.27	331	eP	04	20.00	0.2	%	MAR	30, 1991	13h 34m 05.96± 1.13s				
FLN		22.64	168	eP	03	35.00	-1.1			1.5s	19.00nm			4.6mb				41.045 N ±11.3km	29.295 E ± 9.8km				
		1.3s	72.20nm			5.0mb		UZD		27.57	139	e(P)	04	26.00	3.2X			DEPTH = 10.0km	(geophysicist)				
	Z	21s	1.30um			4.3Msz		CKI		27.84	155	P	04	28.70	3.4X			TURKEY				(366)	
HOF		22.68	146	eP	03	36.70	0.1	SBF		28.28	157	eP	04	28.20	-1.2								
LDF		22.83	167	eP	03	35.80	-2.2			1.2s	59.50nm			5.3mb		ISK		0.18	277	iPg	34	10.20	0.2
		1.0s	40.00nm			4.9mb		EPF		28.40	168	eP	04	28.90	-1.5	HRT		0.36	128	iPg	34	13.20	-0.2
GRR		22.99	168	eP	03	37.90	-1.6			0.8s	20.15nm			5.0mb						iSg	34	18.70	
		0.9s	29.50nm			4.8mb		MME		28.42	152	P	04	34.00	3.2X	YLV		0.48	173	iPg	34	15.60	-0.2
KSP		23.05	139	eP	03	40.50	0.3	SFI		28.87	150	P	04	38.80	4.3X	CTT		0.66	279	iPg	34	18.60	-0.5
GRF		23.17	148	eP	03	41.40	0.1	BZS		29.17	135	eP	04	38.50	1.3	IZI		0.72	169	iPg	34	20.60	0.4
	Z	17s	0.90um			4.3MszX		VRI		30.17	128	iPc	04	47.50	1.3	DMK		1.39	304	iPn	34	31.70	0.3
			e		03	45.90		MLR		30.32	130	eP	04	54.00	6.3X			S.D. = 0.5	on 6 of 6 obs.				
LPF		23.33	169	eP	03	41.00	-1.9	OHR		33.28	139	eP	05	12.00	-1.5	---							
		1.3s	65.00nm			5.0mb		VAY		33.46	137	eP	05	17.40	2.4X	%	MAR	30, 1991	14h 38m 14.61± 1.18s				
FRB		23.50	283	eP	03	46.00	1.7	GIB		35.01	150	P	05	30.70	2.2			18.478 N ±10.0km	100.706 W ±11.5km				
PRU		23.50	142	eP	03	45.80	1.3	INK		36.26	329	eP	05	37.00	-1.6			DEPTH = 33.0km	(normal)				
			i		03	48.60		DST		36.53	130	eP	05	41.00	-0.3			GUERRERO, MEXICO				(59)	
CDF		23.80	155	eP	03	48.00	0.5	YKA		37.55	313	eP	05	47.80	-1.7								
		1.3s	54.15nm			5.0mb				0.9s	5.30nm			4.3mb		III		1.18	95	iP	38	34.75	-0.3
WET		23.99	146	iPd	03	51.00	1.7	IFR		37.65	177	iP	05	53.00	2.1					(S)	38	58.50	
			i		03	54.10		TIO		40.21	180	eP	06	16.50	4.3X	MRX		1.30	339	eP	38	36.50	-0.1
HAU		24.07	157	eP	03	50.40	0.3	FFC		40.93	298	eP	06	18.00	0.3					iS	39	03.50	
		1.4s	52.30nm			4.9mb				0.9s	8.00nm			4.4mb		CRX		1.34	46	(P)	38	50.00	12.5X
	Z	22s	1.33um			4.4Msz		MML		45.06	125	eP	06	56.00	4.4X	UNM		1.67	59	(P)	38	52.00	9.7X
KHC		24.13	145	iPd	03	52.30	1.6	DSI		45.87	126	eP	07	01.00	3.0X	ACX		1.79	153	iP	38	44.00	0.3
		1.4s	72.00nm			5.1mb		SES		47.34	302	eP	07	15.00	5.6X	PPM		2.06	73	eP	38	48.50	0.5
BSF		24.30	156	eP	03	52.50	0.1	IRK		47.85	50	eP	07	13.40	0.0					(S)	39	29.00	
		0.8s	16.10nm			4.7mb				2.0s	470.00nm			6.2mb X		IIT		2.34	76	(P)	39	03.00	11.2X
LOR		24.50	161	eP	03	53.80	-0.5		Z	16s	40.00um			6.5MszX		IISM		3.20	80	eP	39	03.75	0.1
		1.0s	38.00nm			5.0mb						LR	29	13.00		OXX		4.04	109	eP	39	15.50	-0.4
	Z	21s	1.05um			4.3Msz		WMO		50.91	68	P	07	38.00	1.0			S.D. = 0.5	on 6 of 9 obs.				
SLE		24.60	153	ePd	03	56.20	1.0	BW06		53.86	297	eP	07	59.00	-0.3	---							
KRA		24.61	134	eP	03	56.20	1.0			1.1s	9.52nm			4.7mb		?	MAR	30, 1991	14h 40m 25.50± 3.53s				
		0.9s	54.00nm			5.2mb		GOL		55.44	292	eP	08	11.10	0.1			21.020 S ±24.3km	173.340 W ±42.2km				
			i		03	58.70		QUE		56.75	94	eP	08	19.60	-0.8			DEPTH = 33.0km	(normal)				
			e		04	01.40		PV09		57.68	295	e(P)	08	30.00	3.0			5.1mb (4 obs.)					
SSF		24.67	162	eP	03	55.30	-0.6	GTA		58.52	60	eP	08	32.40	-0.3			TONGA ISLANDS				(173)	
		0.8s	20.15nm			4.8mb			Z	22s	1.00um			4.9Msz									
LBF		24.80	161	eP	03	56.70	-0.5		N	20s	1.10um					DZM		18.84	263	iPc	44	45.10	-0.2
		1.0s	62.00nm			5.2mb						pP	08	38.00	18kmX	NOZ		19.05	201	eP	44	48.90	1.3
MFF		24.81	168	eP	03	55.30	-2.0	BTO		60.15	51	eP	08	45.00	1.1	TAZ		19.27	205	P	44	50.50	0.3
		0.9s	16.40nm			4.7mb		ALO		60.16	291	eP	08	45.00	0.8	WLZ		19.31	207	P	44	49.90	-0.8

```
WHH     19.84 204 P      44 55.00   -1.5
MNG     21.73 203 eP     45 12.40   -3.5X
        0.2s      7.00nm          4.7mb
THZ     23.72 206 eP     45 36.10    0.6
KHZ     24.02 204 eP     45 38.30    0.1
LTZ     24.83 206 eP     45 46.00   -0.2
CTA     37.78 264 iPd    47 41.50    0.9
        0.8s     35.82nm          5.3mb
PMG     39.72 281 eP     48 05.50    8.7X
STK     41.52 245 iPd    48 27.60   16.2X
        0.5s      6.90nm
OIS     43.87 262 eP     48 31.50    0.7
ASPA    48.64 257 eP     49 08.30   -0.3
        1.0s     20.60nm          5.1mb
WB2     48.83 261 iPc    49 09.90   -0.1
WRA     48.84 261 P      49 09.00   -1.1
        0.6s     11.60nm          5.1mb
BAO    115.17 120 e(PKP)59 27.00   20.9X
     S.D. = 0.9   on  13 of  17 obs.
-----------------------------------------
   MAR  30, 1991  15h 23m 42.15± 1.26s
   38.458 N ± 9.0km   71.249 E ± 7.5km
   DEPTH = 141.2 ± 15.6 km
   4.3mb ( 10 obs.)
 AFGHANISTAN-USSR BORDER REGION  (717)

KSH      3.82  73 ePn    24 40.80    0.1
                Sn      25 23.00
OUE      8.98 205 eP     25 49.30   -0.8
                eS      27 34.40
NDI     10.94 151 e(P)   26 18.00    2.2
WMQ     13.50  61 eP     26 44.00   -5.1X
GKN     15.29 129 P      27 11.06   -0.7
KKN     15.83 128 P      27 18.36   -0.3
DMN     15.86 129 P      27 19.18    0.2
        0.4s     17.00nm          4.7mb
PKI     16.07 128 P      27 21.32   -0.4
GUN     16.12 126 P      27 21.70   -0.7
HYB     21.92 161 eP     28 33.40    8.6X
GTA     22.21  79 eP     28 31.00    3.3X
     E  28s      2.70um
GBA     25.36 166 Pd     29 08.80   11.2X
        0.6s      2.10nm
LZH     25.98  85 e(P)   29 15.00   11.6X
MLR     34.04 297 eP     30 16.00    1.5
HFS     41.67 321 eP     31 14.20   -3.5X
        0.5s      4.00nm          4.3mb
NB2     42.95 322 P      31 24.70   -3.5X
        0.7s      3.30nm          4.1mb
BSF     46.70 303 eP     31 58.40    0.0
LPG     47.31 300 eP     32 02.20   -1.2
LPL     47.32 300 eP     32 02.20   -1.2
        0.6s      4.50nm          4.3mb
FRF     47.93 298 eP     32 07.30   -0.5
LOR     48.77 303 eP     32 14.30    0.0
SMF     48.95 302 eP     32 15.70    0.0
SSF     49.06 303 eP     32 16.30   -0.2
AVF     49.23 303 eP     32 17.90    0.1
        0.5s      2.20nm          4.2mb
MAF     49.92 302 eP     32 23.70    0.7
        0.7s      4.40nm          4.3mb
TCF     50.13 302 eP     32 25.20    0.5
DAG     52.94 343 eP     32 42.00   -3.3X
MBC     65.38   3 eP     34 10.00   -0.7
        1.0s      5.00nm          4.4mb
INK     71.95   9 eP     34 51.00   -0.3
YKA     79.29   3 eP     35 32.50   -0.2
        0.8s      1.50nm          3.8mb
WRA     82.86 122 P      35 57.00    4.9X
        2.4s      2.50nm          3.6mb
WB2     82.87 122 eP     35 57.70    5.6X
FFC     87.01 356 eP     36 14.00    1.8
        1.0s     16.00nm          4.9mb
     S.D. = 0.9   on  23 of  33 obs.
-----------------------------------------
%  MAR  30, 1991  16h 02m 08.37± 1.25s
   43.007 N ± 9.3km   18.694 E ± 8.3km
   DEPTH = 10.0km  (geophysicist)
 YUGOSLAVIA                      (383)
     ML 1.1 (TTG).

BRY      0.15 226 iPgd   02 12.10    0.1
                 iSg    02 14.47
NKY      0.30 131 iPgc   02 15.20    0.6
                 iSg    02 20.52
HCY      0.58 195 iPgc   02 20.45    0.4
                 iSg    02 28.73

PLE      0.61  58 iPgc   02 20.60   -0.1
                 iSg    02 30.50
TTG      0.71 144 iPgd   02 22.00   -0.4
                 iSg    02 34.12
BDV      0.73 172 iPgd   02 22.17   -0.6
                 iSg    02 34.23
     S.D. = 0.6   on   6 of   6 obs.
-----------------------------------------
   MAR  30, 1991  17h 09m 27.20± 0.83s
   18.155 N ± 7.5km   99.919 W ± 9.1km
   DEPTH =  49.5 ± 14.1 km
 GUERRERO, MEXICO                ( 59)

III      0.48  63 iP     09 38.00   -0.5
                 iS     09 46.50
CRX      1.26  10 eP     09 49.25    0.1
ACX      1.28 177 eP     09 48.50   -0.5
                 iS     10 04.50
UNM      1.36  31 eP     09 50.75    0.3
                 (S)    10 11.00
PPM      1.52  53 iP     09 52.00   -1.0
                 iS     10 11.00
IIT      1.75  60 eP     09 55.25   -0.7
MRX      1.96 322 eP     09 59.00    0.5
                 (S)    10 30.00
IISM     2.55  71 iP     10 07.50    0.6
                 (S)    10 51.00
OXX      3.23 109 iP     10 18.50    1.6
ZOBO    46.37 136 eP     17 51.00   -0.3
                 e      20 20.00
     S.D. = 0.9   on  10 of  10 obs.
-----------------------------------------
?  MAR  30, 1991  17h 35m 17.54± 2.74s
   12.887 N ±17.9km  124.924 E ±55.9km
   DEPTH =  63.1 ± 28.7 km
   4.6mb (  1 obs.)
 SAMAR, PHILIPPINE ISLANDS       (251)

PLP      1.71 178 ePd    35 45.00   -0.6
                 eS     36 06.00
MAP      2.71 200 ePc    35 59.00   -0.6
                 eS     36 33.00
CGP      4.41 183 ePc    36 25.00    1.4
CVP      5.65 328 eP     36 41.00    0.1
WB2     33.92 164 iPc    41 55.70   -1.1
ASPA    37.37 166 iPc    42 26.90    0.8
        0.6s     4.30nm          4.6mb
     S.D. = 1.5   on   6 of   6 obs.
-----------------------------------------
?  MAR  30, 1991  18h 14m 03.36± 3.77s
    7.890 S ±24.2km  128.633 E ±22.3km
   DEPTH = 143.9 ± 47.0 km
   3.8mb (  1 obs.)
 BANDA SEA                       (280)

MTN      5.50 154 eP     15 25.10    0.8
                 e      16 24.00
KNA      7.81 179 eP     15 55.00   -0.5
                 eS     17 18.00
WB2     13.20 156 eP     17 04.70   -1.8
MBL     15.69 212 eP     17 38.00    0.1
                 eS     20 22.00
OIS     16.47 141 eP     17 50.00    2.5X
                 eS     20 42.00
ASPA    16.48 163 eP     17 49.20    1.5
        0.9s     4.70nm          3.8mb
                 eS     20 44.10
WARB    18.29 186 eP     18 33.00   24.0X
GUN     54.53 312 P      23 19.00   -0.2
PKI     54.69 312 P      23 21.40    1.1
KKN     54.90 312 P      23 21.60   -0.1
DMN     54.93 312 P      23 21.80   -0.2
GKN     55.49 312 P      23 25.40   -0.5
     S.D. = 1.2   on  10 of  12 obs.
-----------------------------------------
   MAR  30, 1991  18h 17m 18.78± 0.69s
   26.988 N ± 8.9km  129.370 E ± 8.2km
   DEPTH =  33.0km  (normol)
   4.5mb ( 13 obs.)
 RYUKYU ISLANDS                  (238)

KAGJ     4.39  17 P      18 23.40   -1.4
KUMJ     5.67  13 eP     18 42.60   -0.3
NJ2     10.46 301 Pd     19 49.80    0.3
     Z  14s      0.70um
     N  13s      0.60um
     E  13s      0.80um

BJI     17.02 323 eP     21 18.00    2.3
        0.8s      7.00nm          3.8mb
     Z  12s      0.30um          5.0Msz
CN2     17.07 350 eP     21 18.00    1.5
     Z  13s      2.20um
     N  13s      0.80um
     E  13s      0.30um
                 epP    21 25.00
TIY     17.84 311 eP     21 28.40    2.3
     Z  15s      0.95um
     E  10s      0.59um
XAN     18.95 297 Pc     21 39.10   -0.7
HHC     20.18 318 eP     21 53.00   -0.4
     Z  14s      1.40um          4.5MszX
     N  12s      0.60um
     E  13s      0.80um
BTO     20.99 315 eP     22 00.00   -1.7
     N  11s      0.50um
     E  11s      0.50um
CD2     22.73 286 eP     22 17.40   -1.8
                 eS     26 17.00
LZH     23.52 299 eP     22 26.00   -0.9
        1.6s     18.00nm          4.3mb
     Z  14s      0.68um          4.3MszX
     E  10s      0.30um
                 sP     22 36.00
KMI     23.98 272 eP     22 32.50    0.9
     Z  12s      0.80um          4.4MszX
                 pP     22 41.50   32kmX
GTA     27.53 304 iPd    23 03.00   -1.6
        1.0s     10.00nm          4.4mb
     Z  14s      0.90um          4.5MszX
     E  12s      0.70um
                 pP     23 12.00   32kmX
GUN     38.46 282 P      24 40.14    0.3
        0.5s     16.00nm          5.1mb
PKI     38.92 281 P      24 43.10   -0.6
        0.5s     14.00nm          5.0mb
KKN     39.00 282 P      24 43.88   -0.4
DMN     39.18 281 P      24 45.82    0.0
GKN     39.53 282 P      24 48.18   -0.4
        0.5s     30.00nm          5.3mb
WRA     46.90 174 P      25 43.70   -4.3X
        2.0s      2.20nm          3.8mb
ASPA    50.55 175 eP     26 17.00    0.8
        0.9s      4.70nm          4.5mb
KOD     51.57 261 eP     26 25.00    0.5
QUE     54.30 289 eP     26 44.20   -0.3
INK     67.79  23 eP     28 15.00   -0.1
MBC     68.85  14 eP     28 21.50   -0.1
        1.0s      6.00nm          4.6mb
YKA     77.41  25 eP     29 11.60   -0.3
        0.9s      0.80nm          3.7mb
APO     78.30 333 eP     29 17.70    0.9
        0.5s      1.60nm          4.3mb
NB2     79.08 334 P      29 20.80   -0.3
        0.7s      3.50nm          4.5mb
CLL     84.11 326 iP     29 48.40    0.9
KHC     85.11 324 eP     30 04.00   11.4X
FFC     87.46  27 eP     30 04.50    0.5
        0.9s     10.00nm          5.1mb
FRB     88.47   8 eP     30 14.00    5.3X
     S.D. = 1.1   on  28 of  31 obs.
-----------------------------------------
   MAR  30, 1991  18h 26m 46.88± 0.36s
    1.361 N ± 5.4km  123.493 E ± 7.0km
   DEPTH =  33.0km  (normol)
   4.7mb ( 11 obs.) 4.3Msz (  1 obs.)
 MINAHASSA PENINSULA             (265)

DAV      6.06  20 eP     28 16.00   -0.5
        1.1s    698.73nm          6.2mb X
TSM      6.12 298 ePd    28 16.90   -0.5
                 e      33 35.50
CGP      7.15  10 eP     28 31.00   -0.8
        1.0s      3.50nm          4.3mb
MAP      8.92   3 eP     28 57.00    0.6
IPM     22.66 279 ePd    31 45.00   -1.7
SNG     23.52 285 eP     31 56.50    1.4
                 eS     36 17.00
WB2     23.70 154 eP     31 56.10   -0.7
PSI     24.59 273 eP     32 07.00    1.6
ASPA    26.86 158 eP     32 25.80   -0.8
        1.3s      7.30nm          4.1mb
                 e      32 38.10
OIS     26.90 145 iPc    32 26.70   -0.3
        1.0s     37.00nm          5.0mb
```

30d 18h

WHN		30.29	344	eP	32 56.60	-0.8
CTA		30.86	135	iPc	33 11.10	8.5X
		1.0s		18.00nm		4.8mb
KMI		30.97	321	eP	33 04.50	0.7
CD2		34.83	329	eP	33 36.60	-0.4
XAN		35.25	339	eP	33 40.40	-0.2
STK		37.25	154	eP	34 17.30	19.9X
		1.3s		5.90nm		
				e	34 30.20	
TIY		37.58	346	eP	34 00.40	0.2
	Z	20s		0.50um		4.3Msz
	N	20s		0.90um		
CMS		38.95	149	eP	34 12.00	0.4
LZH		39.06	334	eP	34 13.50	0.7
		1.5s		20.00nm		4.7mb
	Z	15s		0.48um		4.4MszX
				pP	34 20.50	24kmX
BJI		39.07	351	eP	34 12.00	-0.5
		1.0s		9.00nm		4.5mb
HHC		40.77	346	eP	34 27.70	1.0
LSA		41.71	316	eP	34 36.20	1.2
GTA		43.60	333	Pd	34 51.00	1.1
		1.0s		10.00nm		4.5mb
	Z	14s		0.60um		4.7MszX
	E	18s		0.90um		
GUN		44.62	310	P	34 58.20	-0.4
		1.0s		32.00nm		5.1mb
PKI		44.81	309	P	35 00.40	0.2
KKN		45.02	309	P	35 01.20	-0.5
DMN		45.07	309	P	35 01.60	-0.5
		1.0s		28.00nm		5.1mb
GKN		45.62	309	P	35 05.60	-0.8
KOD		46.58	283	eP	35 13.80	-0.4
HYB		46.95	293	eP	35 11.00	-5.8X
				e	35 15.70	
GBA		47.15	287	Pc	35 16.30	-2.1
		0.8s		5.40nm		4.6mb
WMO		52.90	328	P	36 02.60	0.5
OUE		60.72	304	eP	36 47.30	-10.8X
SPA		91.35	180	iPd	39 51.90	1.3
		1.0s		20.00nm		5.5mb
PCH		145.33	159	ePKPd	46 24.20	0.5
PEL		145.69	159	iPKPd	46 26.70	2.4X
CNCB		160.94	144	PKP	46 49.00	2.7X
ZOBO		161.28	143	PKP	46 49.00	2.4X
CCH		161.47	150	ePKP	46 50.00	3.5X
				i	47 06.60	
SIV		164.78	163	ePKP	46 50.00	0.6
				i	47 46.60	

S.D. = 0.9 on 32 of 40 obs.

& MAR 30, 1991 18h 46m 47.19s
59.545 N 150.665 W
DEPTH = 37.1km
KENAI PENINSULA, ALASKA (14)
<AEIC>.

BRLK		0.25	333	iPd	46 54.43	-0.3
				eS	47 00.34	
CNPM		0.29	266	iPc	46 54.37	-0.8
				iS	47 00.65	
HOM		0.51	283	ePd	46 57.82	-0.1
				eS	47 05.92	
XLV		0.55	261	iPc	46 57.22	-1.3
				eS	47 05.13	
NNL		0.59	328	iPc	46 59.81	0.7
				iS	47 09.27	
SEW		0.83	47	iPc	47 01.29	-1.2
SLKM		0.99	13	ePc	47 04.47	-0.3
				S	47 17.74	
NKA		1.24	347	eP	47 09.90	1.7
SYI		1.29	224	ePc	47 07.65	-1.4
RDT		1.35	321	iPc	47 09.45	-0.5
				eS	47 26.69	
RED		1.38	311	iPc	47 09.80	-0.5
				S	47 28.21	
REF		1.39	314	ePc	47 10.12	-0.6
				S	47 29.49	
AUE		1.40	263	eP	47 10.56	0.1
RSO		1.40	312	ePc	47 10.19	-0.5
				S	47 28.48	
RS2		1.40	312	ePc	47 10.80	0.0
				eS	47 29.91	
AUI		1.43	263	ePd	47 10.97	0.0
				eS	47 29.17	
AUH		1.43	264	eP	47 11.31	0.2
RDN		1.43	314	ePc	47 10.41	-0.8
				eS	47 29.67	
NCT		1.53	313	eP	47 11.92	-0.6
MTU		1.59	72	eP	47 12.62	-0.7
CDD		1.65	249	eP	47 12.72	-1.6
KNIM		1.68	60	eP	47 12.73	-2.0
SPU		1.78	338	eP	47 15.93	-0.2
PMS		1.79	17	ePc	47 15.77	-0.5
CKL		1.85	334	ePc	47 17.17	-0.1
CRP		1.88	337	eP	47 18.00	0.3
MCNL		1.91	261	eP	47 16.60	-1.4
BGL		1.93	334	eP	47 18.37	0.1
SUA		1.93	359	ePc	47 19.01	0.7
NCG		2.01	339	eP	47 19.68	0.3
PWA		2.15	10	eP	47 22.52	1.2
KNK		2.17	29	eP	47 20.39	-1.3
GLI		2.23	52	ePc	47 20.10	-2.4
GHO		2.39	20	eP	47 24.83	-0.1
SKT		2.48	351	ePc	47 26.01	-0.1
VLZ		2.68	52	eP	47 27.17	-1.6

36 obs. associated

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* MAR 30, 1991 20h 19m 01.64± 2.34s
23.761 S ±22.1km 67.847 W ±15.9km
DEPTH = 33.0km (normal)
CHILE-ARGENTINA BORDER REGION (127)

ANT		2.35	271	iP	19 38.80	0.0
				iS	20 01.30	
CCH		6.54	14	P	21 26.40	48.0X
CNCB		6.92	359	P	20 44.00	0.1
LPB		7.20	358	(P)	20 48.00	0.4
ZOBO		7.46	358	P	20 51.00	-0.5
SIV		10.02	41	P	21 26.40	0.0

S.D. = 0.4 on 5 of 6 obs.

MAR 30, 1991 20h 33m 19.19± 0.51s
38.716 N ± 4.1km 23.312 E ± 7.3km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 3.1 (ATH).

ATH		0.81	157	iPnc	33 35.20	0.4
				eSn	33 48.60	
AGG		0.82	292	iPc	33 35.50	0.3
				iS	33 51.00	
PAIG		1.24	13	ePc	33 41.72	-0.5
				eS	33 59.80	
OUR		1.70	18	ePd	33 48.68	-0.3
THE		1.93	352	ePc	33 52.16	-0.2
VLI		2.02	189	ePn	33 53.20	-0.4
SOH		2.10	1	ePc	33 55.04	0.1
				eS	34 20.96	
VLS		2.20	257	ePn	34 11.00	14.6X
GRG		2.35	343	ePc	33 58.44	0.0
SRS		2.41	5	iPc	33 59.50	0.2
KNT		2.46	353	ePc	34 00.08	0.1
				eS	34 29.24	
FNA		2.55	325	iPc	34 01.00	-0.3
VAY		2.66	348	ePn	34 04.20	1.3
OHR		3.08	322	ePn	34 08.00	-0.7

S.D. = 0.6 on 13 of 14 obs.

% MAR 30, 1991 20h 56m 35.79± 0.55s
39.713 N ± 4.3km 27.810 E ± 5.1km
DEPTH = 5.0km (geophysicist)
TURKEY (366)

EDC		0.63	4	iPg	56 47.50	-1.0
				iSg	56 55.00	
DST		0.64	99	iPg	56 48.60	0.0
				iSg	56 57.70	
BNT		0.65	7	iPg	56 48.90	0.1
KCT		0.68	38	iPg	56 48.90	-0.5
EZN		1.15	276	iPn	56 58.30	0.6
IZM		1.38	198	iPn	57 01.20	-0.5
IZI		1.42	63	iPn	57 02.40	0.0
CTT		1.51	18	iPn	57 03.90	0.4
ISK		1.65	35	ePn	57 07.00	1.4
HRT		1.80	51	ePn	57 07.40	-0.4
ALT		1.90	109	ePn	57 10.10	0.8
KHL		1.93	136	ePn	57 09.00	-0.6
EYL		1.99	64	ePn	57 14.00	3.4X
DMK		2.11	359	iPn	57 11.80	-0.3

S.D. = 0.7 on 13 of 14 obs.

MAR 30, 1991 21h 02m 48.28± 0.51s
38.736 N ± 4.0km 23.398 E ± 7.8km
DEPTH = 10.0km (geophysicist)
GREECE (364)
ML 2.8 (ATH).

ATH		0.80	162	ePb	03 03.90	0.1
				eSb	03 17.50	
AGG		0.88	289	eP	03 05.00	-0.2
				eS	03 19.80	
PAIG		1.21	10	eP	03 10.80	0.0
				eS	03 28.40	
OUR		1.66	16	eP	03 17.40	-0.1
THE		1.92	350	eP	03 21.00	-0.3
VLI		2.05	190	ePn	03 23.10	-0.1
SOH		2.08	359	eP	03 23.70	0.0
				eS	03 49.00	
KNT		2.45	351	eP	03 29.00	0.0
				eS	04 00.20	
FNA		2.57	323	eP	03 31.20	0.5
VAY		2.66	346	ePn	03 32.00	0.1

S.D. = 0.2 on 10 of 10 obs.

MAR 30, 1991 21h 41m 26.69± 0.74s
23.250 S ± 5.3km 69.076 W ± 5.3km
DEPTH = 77.8 ± 7.6 km
5.1mb (8 obs.)
NORTHERN CHILE (123)
Felt (IV) at Calama and (III) at Mejillones and Antofagasto.

ANT		1.31	250	iPc	41 51.30	1.5
				iS	42 05.20	
SLA		3.59	115	iPc	42 28.00	6.7X
CCH		6.45	26	P	43 54.60	53.2X
CNCB		6.49	9	iPc	43 06.30	4.2X
LPB		6.75	8	P	43 11.20	5.7X
				S	44 52.00	
RTRS		6.90	183	ePd	43 06.80	-0.4
ZOBO		7.00	8	Pc	43 12.80	3.6X
	Z	24s		0.42um		
				S	44 12.00	
				LR	45 04.00	
ARE		7.12	341	iPd	43 09.00	-1.6
				i	43 28.00	
				iS	44 27.50	
RTLL		8.07	176	ePd	43 21.00	-2.3
				(S)	43 43.80	
ZON		8.27	178	eP	43 27.00	0.9
CFA		8.36	175	iPc	43 25.10	-2.2
				eS	43 39.00	
TCA		8.99	155	ePc	43 34.80	-1.2
MDZ		9.60	179	eP	43 45.30	1.0
PEL		9.96	188	eP	43 51.50	2.3
SIV		10.44	48	P	43 54.60	-1.1
ITB1		13.50	99	eP	44 38.00	1.7
ITB		13.67	99	eP	44 38.50	0.0
ITB7		13.73	101	eP	44 43.00	3.8X
PPD		16.45	89	eP	45 15.90	1.9
				e	45 18.30	
VAO		20.33	94	eP	45 58.00	-1.1
				e	46 00.10	
				e	46 10.30	
BAO		21.26	73	ePd	46 08.00	-0.6
BMA		22.95	94	eP	46 24.80	-0.3
				e	46 28.80	
PDCR		30.37	75	eP	47 32.80	-0.7
AIA		42.11	177	eP	49 13.00	0.7
TUL		64.04	336	e(P)	51 52.60	-1.7
FVM		64.13	341	iPd	51 52.70	-2.2
SPA		66.89	180	iPd	52 11.10	-1.5
		1.0s		100.00nm		5.7mb
				i	52 35.20	
RSNY		67.65	356	eP	52 16.80	-0.4
				e	52 41.20	
ALQ		67.88	327	iPd	52 19.00	-0.1
		0.9s		23.11nm		5.1mb
ANMO		67.88	327	iPc	52 19.00	-0.1
				e(PcP)	52 43.00	
				ipP	52 53.50	142kmX
LIC		69.03	73	P	52 28.50	2.1
KIC		69.34	73	P	52 28.92	0.6
LKO		70.10	70	P	52 33.56	0.6
GOL		71.20	331	eP	52 38.50	-1.0
		0.7s		6.07nm		4.6mb
				ePcP	52 45.40	
				ipP	53 14.00	145kmX
BAR		71.81	319	eP	52 43.00	0.0
PV09		72.00	328	ePd	52 44.40	0.1

PLM	72.39	319	eP	52	48.00	1.4
TPC	72.44	320	eP	52	47.00	0.3
KUK	73.14	75	eP	52	55.00	3.9X
RVR	73.15	320	eP	52	51.00	0.3
KOGH	73.21	76	eP	52	54.00	2.5
SHGH	73.32	76	eP	52	56.00	3.9X
MWC	73.71	319	eP	52	54.00	-0.3
GSC	73.73	321	eP	52	55.00	0.8
			e	53	30.00	
PAS	73.73	319	eP	52	55.00	0.9
SBB	73.90	320	eP	52	55.00	-0.2
			e	53	19.00	
RSSD	74.30	335	ePc	52	57.00	-0.5
	0.8s	20.03nm			5.1mb	
			e(pP)	53	32.30	143kmX
CLC	74.55	321	eP	52	59.00	0.1
ISA	74.95	320	eP	53	02.00	0.7
BW06	75.55	330	iP	53	05.20	0.5
	1.0s	3.75nm			4.3mb	
TNP	75.92	323	iP	53	07.20	0.3
	0.8s	13.38nm			4.9mb	
PRI	76.58	319	ePd	53	11.30	0.8
FRI	76.59	320	eP	53	12.30	2.0
LLA	77.07	320	ePd	53	13.50	0.4
PRS	77.13	319	eP	53	13.80	0.4
CMB	77.69	321	eP	53	16.70	0.2
SCH	77.77	1	eP	53	17.00	0.5
MHC	77.96	320	eP	53	19.00	0.9
LRM	79.23	331	ePd	53	25.60	0.6
ORV	79.36	321	eP	53	26.20	0.7
WDC	80.64	322	eP	53	31.10	-1.2
SES	82.18	334	ePd	53	39.50	-0.7
			pP	54	15.00	141kmX
FFC	82.63	341	eP	53	42.00	-0.4
	1.1s	29.00nm			5.1mb	
IFR	83.01	49	eP	53	48.00	3.0X
			e	53	56.50	
			i	54	12.50	
NEW	83.17	330	eP	53	44.30	-1.1
			epP	54	20.00	141kmX
SLR	86.37	116	eP	54	05.50	3.4X
PGC	86.47	327	eP	54	02.00	0.3
YKA	92.78	341	eP	54	30.70	-0.3
	0.6s	8.70nm			5.4mb	
INK	102.52	340	ePdiff	55	15.00	-0.1X
			pP	55	49.00	
QIS	128.25	215	iPKPd	00	25.70	-0.7
ASPA	128.30	207	iPKPd	00	25.40	-1.0
	1.1s	15.40nm				
WRA	131.37	210	PKP	00	31.00	-1.3
	1.0s	9.20nm				
POO	145.11	91	iPKPc	00	56.20	-1.2
KOD	145.55	106	ePKP	00	59.60	1.0
GBA	146.88	101	PKPc	00	58.70	-1.6
	0.6s	13.60nm				
HYB	149.14	95	ePKPd	01	08.20	4.2X
	1.0s	30.00nm				
			e	01	34.50	
GKN	155.85	73	PKP	01	13.40	-0.1
KKN	156.44	74	PKP	01	14.60	0.3
GUN	156.95	73	PKP	01	22.80	7.6X
	S.D. = 1.1	on	66 of	79	obs.	

MAR 30, 1991 23h 15m 53.81± 1.05s
19.121 N ± 5.5km 121.297 E ± 8.0km
DEPTH = 33.6 ± 9.8 km
4.6mb (7 obs.) 3.9Msz (2 obs.)
PHILIPPINE ISLANDS REGION (248)

PIP	1.02	219	iPd	16	13.00	1.2
			iS	16	22.00	
CVP	1.49	160	iPc	16	25.60	7.0X
			eS	16	49.00	
TWG	3.69	357	eP	16	49.00	-0.8
TWM1	3.77	348	ePc	16	50.80	-0.3
TWQ	5.15	355	ePc	17	09.60	-1.0
PGP	5.60	183	ePd	17	23.00	6.1X
			eS	17	38.00	
QZH	6.31	337	eP	17	23.50	-3.5X
HKC	7.38	297	eP	17	36.90	-5.1X
GZH	8.41	299	eP	17	50.60	-5.7X
QIZ	10.83	271	eP	18	25.00	-4.7X
E	16s	1.60um				
			eS	20	21.00	
WHN	13.00	332	eP	19	01.50	2.8X
GYA	15.34	301	P	19	28.20	-1.4
TIA	17.42	349	eP	19	57.50	1.6
KMI	18.19	292	eP	20	07.00	1.2
XAN	18.50	326	Pc	20	09.10	-0.2
CD2	19.73	310	Pd	20	22.80	-0.9
TIY	20.08	339	Pd	20	27.50	0.2
	Z 20s	0.50um			3.9Msz	
BDT	21.26	269	eP	20	39.00	-0.5
BJI	21.31	349	eP	20	40.00	0.1
	1.2s	20.00nm			4.4mb	
	Z 16s	0.35um			3.8MszX	
			eS	24	37.00	
LZH	22.85	321	Pd	20	56.50	1.1
	1.4s	55.00nm			4.8mb	
	Z 20s	0.49um			3.9Msz	
HHC	23.21	341	eP	21	00.70	1.9
GTA	27.44	322	eP	21	38.80	0.0
	1.2s	10.00nm			4.3mb	
	Z 16s	0.40um			4.1MszX	
GUN	33.54	292	P	22	33.34	0.2
	0.8s	22.00nm			5.1mb	
PKI	33.91	291	P	22	36.36	0.0
KKN	34.05	291	P	22	37.20	-0.2
DMN	34.18	291	P	22	38.44	-0.2
GKN	34.64	292	P	22	41.90	-0.5
WMO	37.37	319	eP	23	04.00	-1.3
WB2	40.88	161	eP	23	32.80	-1.7
GBA	42.36	269	Pc	23	43.60	-3.2X
	0.9s	2.60nm			4.0mb	
QIS	43.32	155	iPc	23	54.70	0.2
ASPA	44.27	163	iPc	24	02.40	0.2
	0.3s	9.90nm			5.1mb	
INK	77.87	22	eP	27	49.00	-0.3
MBC	78.16	12	eP	27	51.50	0.7
YKA	87.58	23	eP	28	40.00	0.5
	0.8s	2.70nm			4.6mb	
	S.D. = 1.0	on	27 of	35	obs.	

& MAR 30, 1991 23h 46m 02.45s
59.930 N 152.369 W
DEPTH = 98.5km
SOUTHERN ALASKA (2)
<AEIC>.

HOM	0.46	126	iPc	46	17.45	-0.5
			iS	46	29.08	
RED	0.53	338	ePd	46	17.86	-0.8
			eS	46	29.70	
NNL	0.55	78	iPc	46	18.80	0.1
RSO	0.57	340	iPd	46	18.47	-0.6
			eS	46	30.37	
RS2	0.57	340	ePd	46	18.48	-0.6
			eS	46	30.24	
XLV	0.58	145	eP	46	17.76	-1.2
			eS	46	29.56	
REF	0.59	344	iPd	46	18.57	-0.6
			eS	46	30.79	
RDN	0.62	342	iPd	46	18.77	-0.6
			eS	46	31.03	
RDT	0.65	358	iPd	46	18.75	-0.8
			eS	46	31.09	
NCT	0.69	336	eP	46	19.07	-1.0
			eS	46	32.39	
CNPM	0.70	125	iPc	46	19.10	-0.9
			eS	46	31.78	
AUE	0.77	222	ePd	46	19.38	-1.2
			eS	46	33.26	
BRLK	0.77	102	iPc	46	19.71	-0.9
			eS	46	32.64	
AUH	0.79	224	eP	46	20.12	-0.8
			S	46	32.72	
AUI	0.80	222	ePd	46	20.02	-0.9
			eS	46	33.12	
NKA	0.99	34	iPc	46	24.25	1.3
CDD	1.20	214	iPd	46	24.15	-1.2
			eS	46	40.46	
SLKM	1.22	61	eP	46	24.44	-1.2
MCNL	1.25	234	ePd	46	24.55	-1.4
			S	46	41.30	
SPU	1.27	7	iPd	46	25.92	-0.3
			eS	46	42.97	
CKL	1.27	1	iPd	46	26.06	-0.3
			eS	46	42.58	
SYI	1.32	180	iPd	46	25.89	-0.9
			eS	46	43.62	
BGL	1.34	360	iPd	46	27.01	-0.1
CRP	1.35	4	eP	46	27.31	0.0
			eS	46	46.36	
SEW	1.48	82	eP	46	27.46	-1.2
			eS	46	46.85	
NCG	1.48	4	iPd	46	28.80	-0.1
SUA	1.73	27	iPd	46	32.01	-0.1
			eS	46	53.98	
PMS	1.91	45	eP	46	33.78	-0.6
			eS	46	56.84	
SKT	2.10	11	eP	46	35.89	-0.9
KNIM	2.36	78	eP	46	37.30	-2.9
MTU	2.37	87	eP	46	39.00	-1.5
KNK	2.43	51	eP	46	39.75	-1.5
GHO	2.50	41	eP	46	40.98	-1.3
CUT	2.68	21	eP	46	44.02	-0.6
SCM	3.12	50	eP	46	49.68	-0.9
VLZ	3.22	65	eP	46	51.15	-0.7
HUR	3.33	22	eP	46	53.16	-0.3
TRF	3.67	15	eP	46	57.58	-0.7
RND	3.87	24	eP	47	00.03	-0.9
	39 obs.	ossociated				

MAR 30, 1991 23h 53m 28.14± 1.35s
34.543 N ± 7.7km 23.556 E ± 4.8km
DEPTH = 29.3 ± 8.9 km
4.3mb (24 obs.) 3.5Msz (1 obs.)
CRETE (370)
MD 4.2 (ATH).

NPS	1.84	66	ePn	54	01.00	2.8
			eSn	54	33.00	
VLI	2.23	347	ePn	54	06.80	3.0X
ATH	3.42	2	ePn	54	21.80	1.0
ARG	4.09	65	ePn	54	30.10	-0.1
VLS	4.35	327	ePn	54	33.00	-0.9
YER	4.63	55	iPn	54	37.40	-0.6
IZM	4.87	37	ePn	54	42.00	0.7
PRK	5.17	24	ePn	54	50.00	4.4X
ELL	5.62	65	iPn	54	51.20	-0.8
KZN	5.93	347	ePn	54	55.80	-0.5
KHL	6.11	50	ePn	54	58.60	-0.3
SOH	6.27	359	eP	55	00.10	-1.0
BCK	6.40	61	iPn	55	02.30	-0.7
FNA	6.47	345	eP	55	02.40	-1.4
GRG	6.47	352	eP	55	02.30	-1.6
DST	6.48	37	eP	55	04.00	0.0
SRS	6.56	0	eP	55	03.50	-1.7
KNT	6.63	356	eP	55	05.00	-1.1
ALN	6.64	17	eP	55	11.50	5.3X
VAY	6.81	354	ePn	55	07.70	-0.9
OHR	6.91	342	ePn	55	08.20	-1.9
SKO	7.60	348	ePn	55	16.50	-3.2X
CSS	8.06	84	eP	55	21.20	-4.9X
ZNT	9.87	100	eP	55	47.00	-4.1X
JVI	10.22	101	eP	55	52.50	-3.4X
			eS	57	43.00	
PRNI	10.53	110	eP	55	56.00	-4.2X
FVI	14.54	329	P	57	01.30	7.7X
KBA	14.70	331	e(P)	56	56.00	0.1
	0.9s	8.50nm			4.2mb	
			e	57	03.00	
			i	57	04.20	
			i	57	11.40	
BHG	15.41	332	eP	57	11.20	6.2X
KHC	16.34	336	iPc	57	20.50	3.6X
	1.0s	12.00nm			4.0mb	
FUR	16.41	330	iPc	57	21.40	3.6X
WET	16.59	335	eP	57	22.40	2.3X
	1.1s	42.00nm			4.5mb	
PRU	16.79	340	P	57	24.80	2.2X
GRF	17.65	333	eP	57	34.70	1.4
Z	15s	0.20um				
			e	57	40.10	
FEL	17.68	324	eP	57	33.63	-0.2
BRG	17.76	340	e(P)	57	35.50	0.9
BSF	18.26	322	eP	57	40.20	-0.8
	0.8s	5.35nm			3.8mb	
MOX	18.30	335	e(P)	57	42.00	0.7
CDF	18.41	324	eP	57	41.90	-0.9
CLL	18.42	339	eP	57	44.00	1.2
	1.4s	18.00nm			4.1mb	
			e	57	49.00	
HAU	18.60	321	eP	57	44.30	-0.8
	1.1s	17.10nm			4.2mb	
Z	21s	0.08um			4.0MszX	
LBF	19.29	316	eP	57	53.00	-0.4
	1.0s	7.00nm			3.9mb	
SSF	19.60	316	eP	57	55.90	-1.0
	1.0s	6.00nm			3.8mb	
TCF	19.98	312	eP	58	01.00	0.1

30d 23h

	1.2s	10.40nm		4.0mb		
ENN	20.68	327	eP	58 09.00	1.0	
	0.9s	16.00nm		4.4mb		
DOU	20.84	324	Pc	58 09.80	0.1	
ETOR	21.18	295	eP	58 18.50	5.1X	
WTS	21.19	330	eP	58 14.00	0.7	
	1.0s	13.00nm		4.3mb		
SNF	21.26	324	P	58 12.90	-1.1	
MFF	21.57	311	eP	58 17.30	0.1	
WIT	21.87	332	eP	58 22.00	1.9	
LDF	22.48	316	eP	58 26.70	0.4	
	0.7s	9.90nm		4.4mb		
GUD	22.73	294	eP	58 32.20	3.2X	
FLN	22.77	316	eP	58 29.70	0.6	
	0.5s	8.00nm		4.5mb		
	Z 19s	0.15um		3.5Msz		
GRR	22.81	315	eP	58 31.10	1.6	
	0.9s	13.10nm		4.4mb		
HFS	26.40	349	eP	59 02.70	-0.9	
	0.5s	3.60nm		4.2mb		
NB2	27.68	347	P	59 13.20	-2.2	
	0.7s	3.00nm		4.1mb		
EKA	27.80	327	Pd	59 23.70	7.2X	
	0.6s	2.50nm		4.1mb		
KIC	38.32	229	P	00 47.20	-0.9	
GKN	51.93	79	P	02 36.20	-0.6	
	0.7s	18.00nm		5.1mb		
DMN	52.47	80	P	02 40.60	-0.3	
	0.5s	13.00nm		5.1mb		
KKN	52.54	79	P	02 41.00	-0.4	
	0.6s	12.00nm		5.0mb		
PKI	52.73	80	P	02 42.20	-0.8	
	0.8s	17.00nm		5.0mb		
GBA	52.77	99	Pc	02 41.80	-1.1	
	0.6s	3.50nm		4.5mb		
GUN	52.98	79	P	02 44.40	-0.4	
	0.5s	10.00nm		5.0mb		
FRB	60.52	329	eP	03 38.00	0.5	
INK	76.04	351	eP	05 14.00	0.1	
YKA	77.62	342	eP	05 22.80	0.0	
	0.5s	0.40nm		3.7mb		
	S.D. = 1.0	on	51 of	68 obs.		

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* MAR 31, 1991 00h 38m 23.43± 0.90s
42.735 N ± 5.6km 12.815 E ±14.3km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ASS	0.35	341	P	38 31.60	0.8	
			eSg	38 38.50		
MNS	0.36	196	P	38 30.10	-0.8	
			eSg	38 35.40		
CIO	0.52	28	iPg	38 33.14	-0.8	
			iSg	38 41.17		
ARV	0.77	7	P	38 38.30	-0.2	
			eSg	38 50.70		
AZI	0.88	148	P	38 41.20	1.0	
	S.D. = 1.2	on	5 of	5 obs.		

MAR 31, 1991 01h 09m 41.91± 0.53s
37.093 N ± 5.1km 29.553 E ± 4.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 3.5 (ATH).

ELL	0.45	140	iPg	09 50.70	-0.4	
BCK	0.90	66	iPn	09 59.80	0.5	
YER	1.02	273	iPn	10 00.90	-0.3	
KHL	1.23	359	iPn	10 04.10	-0.7	
CIN	1.27	294	eP	10 06.00	0.5	
ARG	1.44	233	ePn	10 08.00	-0.1	
			eSn	10 32.20		
ALT	2.01	12	ePn	10 17.00	0.7	
IZM	2.23	306	ePn	10 20.00	0.4	
DST	2.61	344	ePn	10 24.00	-0.9	
NPS	3.67	241	ePn	10 40.20	0.2	
	S.D. = 0.6	on	10 of	10 obs.		

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* MAR 31, 1991 01h 20m 50.18± 0.94s
31.707 S ±12.9km 67.702 W ± 7.0km
DEPTH = 10.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

CFA	0.47	282	iPc	20 59.80	0.1	
RTLL	0.76	300	iPc	21 05.40	0.4	
ZON	0.85	281	eP	21 06.00	-0.6	
			eS	21 16.00		
MDZ	1.52	219	eP	21 17.70	0.2	
			iS	21 36.70		
RTRS	2.15	315	iPd	21 30.70	4.2X	
			eS	21 59.50		
TCA	2.68	83	e(P)	21 34.20	-0.1	
	S.D. = 0.5	on	5 of	6 obs.		

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* MAR 31, 1991 02h 24m 15.32± 0.84s
37.062 N ± 8.7km 29.563 E ± 6.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

ELL	0.42	138	iPg	24 23.70	-0.2	
			iSg	24 30.70		
BCK	0.91	64	iPn	24 33.30	0.5	
YER	1.03	274	ePn	24 34.40	-0.4	
KHL	1.26	359	ePn	24 38.10	-0.7	
CIN	1.29	295	eP	24 40.00	0.7	
	S.D. = 0.8	on	5 of	5 obs.		

? MAR 31, 1991 02h 47m 37.20± 3.18s
33.038 S ±13.8km 72.160 W ±27.5km
DEPTH = 24.9 ± 9.5 km
OFF COAST OF CENTRAL CHILE (134)

IHA	0.44	88	iPc	47 46.10	-0.2	
			i($)	47 51.80		
LCCH	0.66	132	iPd	47 50.40	0.4	
ROCH	0.97	86	iPd	47 54.60	-0.7	
			iS	48 07.00		
TACH	1.19	121	iPd	47 58.70	0.3	
			iS	48 14.50		
PEL	1.24	95	iPd	47 59.60	0.5	
			iS	48 14.50		
SAN	1.32	109	eP	48 00.60	0.4	
			iS	48 19.00		
JACH	1.37	75	iPd	48 00.60	-0.3	
			iS	48 18.00		
PCH	1.50	113	iPd	48 03.50	0.7	
			iS	48 23.00		
MDZ	2.79	88	iP	48 27.10	5.9X	
			iS	49 02.40		
ZON	3.30	64	eP	48 33.00	4.5X	
RTLL	3.56	62	ePc	48 35.50	3.2X	
			eS	49 23.80		
CFA	3.61	68	ePd	48 36.40	3.4X	
			eS	49 25.10		
RTRS	3.67	40	ePc	48 35.90	2.2	
TCA	6.64	77	ePc	49 15.20	-0.6	
SIV	19.72	33	P	52 06.50	-1.5	
	S.D. = 1.1	on	11 of	15 obs.		

MAR 31, 1991 03h 00m 30.89± 0.63s
70.891 N ±12.1km 6.006 W ± 6.3km
DEPTH = 10.0km (geophysicist)
JAN MAYEN ISLAND REGION (639)
MD 3.1 (8ER).

JNE	0.76	279	iPgd	00 46.14	0.4	
JNW	0.81	281	iPgc	00 46.73	0.2	
JMI	0.90	274	iPgc	00 48.40	0.3	
			eSg	00 58.55		
DAG	6.88	335	iPc	02 12.90	-1.2	
	0.5s	21.83nm		5.5mb X		
			i	03 25.00		
TRO	8.50	87	iP	02 36.20	-0.6	
			eS	04 05.83		
NSS	9.31	124	eP	02 48.59	0.7	
			eS	04 25.68		
MOL	9.89	141	eP	02 54.35	-1.6	
KTK1	10.15	87	eP	03 00.17	0.6	
NRA0	12.40	136	P	03 29.20	-0.9	
			Sn	05 41.10		
KAF	15.38	109	eP	04 11.20	2.0	
	0.3s	1.00nm		3.6mb		
NUR	16.11	115	eP	04 23.80	5.1X	
	S.D. = 1.2	on	10 of	11 obs.		

? MAR 31, 1991 03h 07m 24.54± 3.94s
33.027 S ±11.2km 71.844 W ±35.3km
DEPTH = 33.0km (normal)
NEAR COAST OF CENTRAL CHILE (135)

IHA	0.17	90	iPc	07 29.40	-1.5	
			iS	07 34.60		
ROCH	0.70	86	iPd	07 37.60	-0.6	
			iS	07 49.70		
PEL	0.98	97	iPd	07 42.50	0.5	
			iS	07 58.50		
TACH	0.98	130	iPd	07 41.70	-0.3	
			iS	07 57.40		
SAN	1.08	114	iP	07 44.40	1.0	
			iS	08 03.50		
JACH	1.11	72	iPd	07 43.50	-0.4	
			iS	08 00.50		
PCH	1.26	118	iPd	07 46.70	0.7	
			iS	08 06.60		
MDZ	2.52	88	iP	08 09.70	5.5X	
			iS	08 46.10		
ZON	3.06	62	eP	08 17.00	5.2X	
RTLL	3.32	60	iPc	08 19.00	3.5X	
			eS	09 07.00		
CFA	3.36	66	e(P)	08 19.60	3.5X	
			eS	09 08.90		
RTRS	3.50	36	ePc	08 19.00	1.0	
TCA	6.38	77	ePd	08 58.20	-0.5	
			(S)	10 14.30		
	S.D. = 1.0	on	9 of	13 obs.		

MAR 31, 1991 03h 29m 09.65± 0.45s
42.675 N ± 3.8km 12.932 E ± 6.0km
DEPTH = 6.9 ± 4.7 km
CENTRAL ITALY (381)

MNS	0.34	213	P	29 16.70	0.0	
			eSg	29 21.70		
ASS	0.44	333	P	29 18.30	-0.3	
			eSg	29 26.30		
AQU	0.47	132	P	29 18.40	-0.8	
			eSg	29 26.90		
AZI	0.78	151	P	29 25.60	0.5	
			eSg	29 35.90		
ARV	0.82	1	P	29 24.80	-1.1	
			eSg	29 38.60		
RMP	0.88	191	P	29 25.50	-1.3	
			eSn	29 39.00		
RDP	0.93	190	P	29 26.00	-1.7	
SDI	1.17	146	P	29 32.10	0.3	
			eSg	29 48.80		
CRE	1.19	323	P	29 32.60	0.4	
			eSn	29 49.80		
RSM	1.30	345	P	29 35.70	1.7	
MAO	1.34	260	P	29 35.50	0.8	
SFI	1.47	328	P	29 35.80	-0.8	
			eSn	29 57.80		
DUI	1.52	131	P	29 38.20	0.8	
FIR	1.65	313	eP	29 45.00	5.9X	
BDI	2.20	310	P	29 46.60	-0.6	
			eSn	30 14.50		
CTI	3.50	345	P	30 04.60	-1.0	
FVI	3.92	358	P	30 10.80	-0.7	
KBA	4.41	4	iPnc	30 18.30	-0.4	
			i	30 35.30		
			iSn	31 08.90		
			i	31 10.10		
			e	31 28.00		
	S.D. = 1.0	on	17 of	18 obs.		

& MAR 31, 1991 04h 31m 31.60s
36.957 N 121.727 W
DEPTH = 11.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 3.0 (BRK). Felt (IV) ot Marina.

GCC	0.23	289	iPc	31 36.48	-0.1	
			iS	31 39.69		
SAO	0.30	130	iPd	31 37.26	-0.6	
MHC	0.39	10	iPc	31 39.90	0.2	
			iS	31 44.20		
ARN	0.42	22	iPc	31 40.30	0.0	
PRS	0.69	155	iPd	31 44.37	-0.8	
			iS	31 54.76		
LLA	0.71	118	iPd	31 44.81	-0.8	
			iS	31 54.39		
PCC	0.75	316	eP	31 45.50	-0.7	
			iS	31 56.40		
BKS	1.00	336	eP	31 48.80	-1.7	
			iS	32 04.00		
BRK	1.01	335	eP	31 50.20	-0.4	
			iS	32 03.70		
ZSP	1.07	337	eP	31 50.33	-1.3	
PRI	1.18	133	eP	31 52.80	-0.8	
CMB	1.52	44	eP	31 58.50	-0.2	

			iS	32	19.60	
FRI	1.62	88	eP	32	00.10	0.0
			iS	32	20.30	
BCH	2.21	143	eP	32	06.00	-2.9
ORV	2.60	4	eP	32	12.00	-2.3
BONR	2.90	69	eP	32	17.50	-1.3

16 obs. associated

? MAR 31, 1991 04h 49m 44.12± 4.57s
9.725 S ±48.9km 123.962 E ±13.7km
DEPTH = 33.0km (normol)
4.7mb (2 obs.)
TIMOR (289)

KUPT	0.55	220	ePd	49	55.50	0.1
			eS	50	05.20	
KNA	7.60	142	iPd	51	35.90	0.4
MTN	7.68	114	eP	51	36.70	0.1
	0.3s	176.00nm			6.7mb	X
			eS	53	01.00	
WB2	14.28	137	eP	53	02.40	-3.7X
	0.3s	10.50nm			4.9mb	
			eS	55	36.40	
ASPA	16.80	147	eP	53	38.10	-0.6
	0.4s	18.80nm			4.6mb	
			eS	56	39.10	
QIS	18.53	127	eP	54	00.00	-0.1
			eS	57	17.00	

S.D. = 0.5 on 5 of 6 obs.

MAR 31, 1991 05h 26m 41.12± 0.48s
24.430 N ± 6.3km 123.783 E ± 6.7km
DEPTH = 33.0km (normol)
4.6mb (8 obs.)
SOUTHWESTERN RYUKYU ISLANDS (246)

TWC	1.77	276	ePc	27	08.80	-1.1
			eS	27	28.70	
ANP	2.19	291	eP	27	25.00	9.0X
TWF1	2.52	245	ePc	27	19.70	-0.9
OZH	4.75	277	ePn	27	52.00	-0.2
CVP	6.94	196	eP	28	25.00	1.9
SSE	7.03	341	P	28	21.30	-3.0X
Z	20s	0.50um				
N	14s	1.50um				
NJ2	8.75	331	eP	28	49.50	1.2
XAN	16.11	310	P	30	33.00	6.3X
TIY	16.41	326	eP	30	37.00	6.5X
Z	13s	0.72um				
			S	33	31.50	
BJI	16.83	339	eP	30	40.50	4.8X
MAT	17.30	42	eP	30	42.00	0.2
			(S)	31	25.00	
CD2	18.86	294	eP	31	05.00	3.9X
HHC	19.30	331	eP	31	08.00	1.7
CN2	19.37	4	eP	31	07.00	0.0
	1.0s	10.00nm			4.0mb	
Z	10s	0.80um			4.3Msz	
N	10s	0.30um				
E	10s	0.40um				
			epP	31	14.00	26kmX
			eS	34	47.00	
BTO	19.82	328	eP	31	11.00	-1.0
N	10s	0.30um				
E	10s	0.40um				
LZH	20.73	309	eP	31	22.50	0.9
	2.0s	32.00nm			4.4mb	
GTA	25.13	312	eP	32	06.30	1.5
GUN	34.11	284	P	33	25.60	0.2
PKI	34.54	284	P	33	28.60	-0.5
KKN	34.64	284	P	33	29.40	-0.5
DMN	34.81	284	P	33	30.00	-1.3
GKN	35.20	284	P	33	34.40	-0.1
GBA	44.94	265	Pd	34	56.50	1.5
WB2	45.29	166	eP	34	54.00	-3.7X
	0.7s	7.70nm			4.7mb	
QIS	47.29	160	eP	35	13.00	-0.5
ASPA	48.81	168	eP	35	25.30	0.0
	0.5s	5.70nm			4.9mb	
INK	72.10	22	eP	38	02.50	-1.2
MBC	72.50	13	eP	38	05.50	-0.5
NB2	79.10	333	P	38	43.00	-0.6
	0.5s	1.50nm			4.2mb	
YKA	81.81	24	eP	38	57.50	-0.4
	0.8s	4.70nm			4.6mb	
LPG	89.94	321	eP	39	38.60	-0.2
	0.8s	4.05nm			4.7mb	
LPL	89.94	321	eP	39	38.60	-0.1
	0.6s	2.70nm			4.7mb	

S.D. = 1.0 on 25 of 32 obs.

MAR 31, 1991 05h 29m 22.04± 0.48s
32.056 N ± 5.0km 115.631 W ± 4.1km
DEPTH = 5.0km (geophysicist)
CALIFORNIA-MEXICO BORDER REGION (45)
ML 3.2 (PAS), 3.3 (ECX).

EMX	0.34	101	P	29	28.99	0.2
			S	29	33.80	
CPBX	0.46	37	P	29	31.63	0.5
			S	29	38.80	
LMX	0.57	85	P	29	34.21	0.7
			S	29	41.78	
IKP	0.72	326	iPd	29	35.70	-0.7
ECBX	0.76	140	P	29	36.94	-0.4
			S	29	47.57	
PBX	0.98	252	P	29	41.10	0.0
			S	29	54.23	
SPX	1.02	172	P	29	41.87	-0.1
			S	29	56.15	
BAR	1.08	306	iPc	29	42.00	-0.8
			eS	29	55.60	
GLA	1.20	34	iPc	29	43.10	-1.9
CPE	1.49	304	iPc	29	48.90	-0.6
PLM	1.66	322	eP	29	52.30	0.2
PEC	2.24	325	eP	30	00.70	0.4
RVR	2.42	323	eP	30	05.00	2.0
ABL	4.10	314	P	30	27.40	0.5
BCH	4.85	311	eP	30	37.50	-0.1
TNP	6.15	348	P	31	00.00	4.0X

S.D. = 0.9 on 15 of 16 obs.

MAR 31, 1991 05h 58m 27.76± 1.42s
23.761 N ± 9.7km 121.677 E ±18.0km
DEPTH = 20.9 ± 12.6 km
3.8mb (1 obs.)
TAIWAN (244)

TWD	0.33	347	ePc	58	33.90	-1.0
			eS	58	38.30	
TWF1	0.54	221	ePc	58	38.10	-0.3
TWC	0.86	10	ePc	58	44.60	0.8
TWO	0.92	304	eP	58	45.20	0.2
TWK	1.20	246	iPc	58	49.80	0.4
			eS	59	07.40	
YKA	83.18	23	eP	10	53.30	-0.1
	1.0s	0.80nm			3.8mb	

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

MAR 31, 1991 06h 01m 36.05± 0.81s
41.237 N ± 9.7km 22.721 E ± 6.3km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MD 3.1 (ATH).

VAY	0.14	306	iPgc	01	39.00	-0.4
			iSg	01	41.80	
MMB	0.83	65	iPgc	01	50.00	-2.2
			Sg	02	01.00	
KZN	1.18	218	ePb	01	58.50	0.4
			eSb	02	16.50	
SKO	1.21	308	ePg	01	58.00	-0.6
			eSg	02	14.00	
VTS	1.40	15	iPc	02	02.00	0.2
			iSg	02	20.00	
RZN	1.57	73	iPc	02	04.00	-0.1
			iSg	02	26.00	
PGB	1.70	39	iP	02	07.00	1.1
			iSg	02	28.00	
PLD	1.72	59	iP	02	08.00	1.8
			iSg	02	31.00	
KDZ	2.07	78	iP	02	12.00	0.8
			iSg	02	39.00	
RDO	2.13	92	ePn	02	11.00	-1.1
			eSn	02	41.50	
DIM	2.26	68	iP	02	20.00	6.0X
PVL	2.77	44	eP	02	24.00	2.7X
			eS	03	01.00	

S.D. = 1.3 on 10 of 12 obs.

• MAR 31, 1991 06h 03m 26.39± 1.84s
31.972 S ±10.0km 69.563 W ±18.6km
DEPTH = 33.0km (normol)
SAN JUAN PROVINCE, ARGENTINA (137)

ZON	0.87	61	eP	03	43.00	0.8
			eS	03	58.00	
MDZ	1.09	147	eP	03	45.50	0.0
RTLL	1.13	56	iPc	03	45.80	-0.2
			eS	04	03.00	
CFA	1.18	72	e(P)	03	46.20	-0.6
			eS	04	03.90	
RTRS	1.80	3	iPd	03	55.50	-0.1

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

• MAR 31, 1991 06h 55m 59.70± 2.92s
33.081 S ± 8.4km 71.820 W ±25.6km
DEPTH = 25.3 ± 7.4 km
NEAR COAST OF CENTRAL CHILE (135)

IHA	0.16	70	iPc	56	05.00	0.1
			iS	56	10.60	
LCCH	0.45	152	iPd	56	08.70	-0.3
ROCH	0.69	81	iP	56	13.00	-0.2
			iS	56	25.50	
TACH	0.93	128	iPd	56	17.20	0.1
			iS	56	32.50	
PEL	0.95	94	iPd	56	18.00	0.6
			iS	56	34.00	
SAN	1.04	111	iPd	56	19.20	0.6
			iS	56	37.50	
JACH	1.11	69	iPd	56	19.40	-0.3
			iS	56	36.50	
PCH	1.22	117	iPd	56	22.00	0.7
			iS	56	41.50	
MDZ	2.50	86	iP	56	44.80	5.1X
			iS	57	22.20	
ZON	3.07	61	eP	56	51.00	3.3X
RTLL	3.33	59	ePd	56	53.30	1.9
			eS	57	42.00	
CFA	3.37	65	ePd	56	54.90	3.0X
			eS	57	43.90	
RTRS	3.53	35	iPc	56	54.30	0.1
			eS	57	46.80	
TCA	6.37	76	eP	57	32.30	-2.1
			(S)	58	50.00	

S.D. = 1.2 on 11 of 14 obs.

MAR 31, 1991 08h 01m 12.61± 1.05s
39.595 N ± 7.7km 143.801 E ±11.0km
DEPTH = 8.9 ± 4.7 km
4.3mb (5 obs.)
OFF EAST COAST OF HONSHU, JAPAN (229)

OFUJ	1.73	253	iP+	01	42.50	-0.5
			eS	02	04.50	
HOOJ	2.81	352	eP	01	58.50	0.0
			eS	02	29.60	
YAMJ	3.26	245	P	02	04.60	-0.4
MRRJ	3.50	325	eP	02	08.60	0.3
			eS	02	50.90	
KUSJ	3.57	11	eP	02	09.20	0.0
			eS	02	47.40	
KAKJ	4.44	221	eP	02	20.90	-0.7
			eS	03	12.80	
NIIJ	4.44	240	P	02	22.90	1.2
ASAJ	4.60	350	eP	02	23.10	-0.8
CHJJ	5.20	229	P	02	31.70	-0.7
MAT	5.36	237	iPc	02	34.90	0.1
	0.8s	17.91nm			4.8mb	
			(S)	04	06.00	
MTMJ	5.60	239	P	02	38.40	0.1
IIDJ	6.23	231	P	02	47.40	0.5
GUN	48.80	275	P	09	59.56	-0.9
KKN	49.32	275	P	10	03.70	-0.6
GKN	49.71	276	P	10	09.14	1.9
INK	51.25	28	eP	10	20.00	1.8
WB2	59.88	190	eP	11	21.10	0.1
	0.9s	1.40nm			4.1mb	
WRA	59.88	190	P	11	21.00	0.0
	0.7s	2.00nm			4.4mb	
YKA	60.65	31	eP	11	24.70	-1.2
	0.4s	0.10nm			3.3mb	
NB2	72.54	338	P	12	40.80	-0.7
	0.8s	2.60nm			4.4mb	
FRB	73.84	14	eP	12	49.00	0.1

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

MAR 31, 1991 08h 05m 34.95± 1.02s
39.579 N ± 7.3km 143.735 E ±12.0km
DEPTH = 9.6 ± 4.4 km
4.3mb (3 obs.)

31d 08h

OFF EAST COAST OF HONSHU, JAPAN (229)

OFUJ	1.68	253	iP+	06	04.50	0.0
AOMJ	2.76	292	eP	06	19.10	-1.0
HOOJ	2.82	353	eP	06	21.40	0.5
			S	06	51.00	
YAMJ	3.21	245	P	06	26.50	0.1
MRRJ	3.49	326	eP	06	30.60	0.3
KUSJ	3.59	11	P	06	31.20	-0.6
			S	07	09.50	
KAKJ	4.39	221	eP	06	42.40	-0.8
			eS	07	33.00	
NIIJ	4.39	239	P	06	43.40	0.2
ASAJ	4.61	350	P	06	46.30	0.0
CHJJ	5.15	228	P	06	53.50	-0.4
			eS	07	49.90	
MAT	5.31	237	iPc	06	56.90	0.6
	0.5s	26.76nm			5.1mb	X
			(S)	08	26.00	
MTMJ	5.55	239	P	07	00.30	0.5
IIDJ	6.18	230	eP	07	09.40	0.9
			eS	08	20.30	
INK	51.29	28	eP	14	42.00	1.3
WB2	59.86	190	eP	15	42.40	-0.7
	0.9s	1.60nm			4.1mb	
WRA	59.86	190	P	15	43.00	-0.1
	0.6s	1.40nm			4.3mb	
NB2	72.53	338	P	17	02.80	-0.9
	0.8s	2.40nm			4.3mb	

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

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* MAR 31, 1991 09h 35m 48.35± 2.95s
33.092 S ± 8.8km 72.054 W ±23.7km
DEPTH = 13.5 ± 6.1 km

OFF COAST OF CENTRAL CHILE (134)

IHA	0.35	79	iPc	35	56.60	0.8
			iS	36	08.00	
ROCH	0.88	82	iPd	36	04.90	-0.3
			iS	36	17.50	
LNV	1.01	148	iPc	36	07.70	0.5
			iS	36	23.00	
TACH	1.09	121	iPd	36	08.90	0.4
			iS	36	24.90	
PEL	1.15	93	iPd	36	10.00	0.4
			iS	36	26.00	
SAN	1.22	108	iPc	36	11.30	0.5
			iS	36	29.00	
PCH	1.39	113	iPd	36	13.90	0.5
			iS	36	34.50	
MDZ	2.70	86	iP	36	36.90	4.7X
			iS	37	13.70	
ZON	3.25	63	eP	36	43.00	3.0X
RTLL	3.51	61	ePc	36	45.40	1.7
			eS	37	34.90	
CFA	3.55	66	ePd	36	48.10	3.8X
			eS	37	36.90	
RTRS	3.66	38	e(P)	36	45.80	0.1
TCA	6.56	77	ePd	37	25.20	-1.7

S.D. = 1.1 on 10 of 13 obs.

MAR 31, 1991 09h 57m 39.49± 0.17s
16.353 S ± 4.6km 174.185 W ± 4.2km
DEPTH = 146.4km (3 depth phases)
4.9mb (27 obs.)

TONGA ISLANDS (173)

VUN	7.22	256	iPc	59	27.20	3.5X
SVA	7.25	255	ePc	59	28.20	4.2X
SGE	7.65	260	ePd	59	33.60	4.0X
RAR	14.48	112	P	00	59.00	0.3
			S	03	30.00	
DZM	19.15	250	iPc	01	52.80	-1.3
HBZ	22.18	196	eP	02	25.40	1.2
PUZ	22.64	196	eP	02	29.00	0.3
NOZ	23.21	196	P	02	36.10	1.9
WLZ	23.23	201	eP	02	35.70	1.3
PAE	23.56	97	iP	02	38.60	0.8
	0.9s	70.00nm			5.1mb	
PPT	23.57	97	iP	02	38.80	0.9
	0.9s	55.00nm			5.0mb	
PPN	23.70	96	iP	02	39.70	0.5
	0.9s	50.00nm			5.0mb	
TVO	23.87	97	iP	02	41.80	0.9
	0.9s	120.00nm			5.4mb	
NGZ	24.43	199	eP	02	44.90	-1.2
PMO	25.34	91	iP	02	54.40	-0.1
	0.9s	45.00nm			5.0mb	
PGZ	25.56	197	P	02	55.10	-1.2
VAH	25.57	91	iP	02	56.10	-0.5
	0.9s	25.00nm			4.8mb	
TPT	25.61	91	iP	02	56.70	-0.3
	0.9s	30.00nm			4.9mb	
RUV	25.81	91	iP	02	58.40	-0.5
	0.9s	45.00nm			5.1mb	
SVO	26.33	283	P	03	13.00	9.4X
THZ	27.66	201	eP	03	14.20	-1.3
KHZ	28.03	200	eP	03	17.00	-1.7
LTZ	28.78	201	P	03	22.30	-3.2X
MSZ	32.01	204	eP	03	54.10	0.3
BRS	32.47	245	iPd	03	58.50	0.4
COO	34.04	239	eP	04	11.00	-0.6
PMG	38.27	276	eP	04	48.00	0.7
CMS	39.30	240	iPc	04	55.00	-0.7
TOO	41.28	231	eP	05	12.00	0.0
WB2	48.88	258	iPd	06	10.40	-2.1
	0.4s	7.70nm			4.8mb	
			i	06	25.40	57kmX
WRA	48.90	258	P	06	10.00	-2.6X
	0.5s	6.90nm			4.7mb	
ASPA	49.11	253	iPd	06	12.50	-1.7
	0.7s	24.20nm			5.1mb	
Z	20s	0.20um			4.1Msz	
		epP		06	45.50	144km
SYP	72.20	45	eP	08	50.00	-0.5
PRS	72.33	42	eP	08	51.30	0.2
PCC	72.39	41	ePc	08	51.30	-0.1
SAO	72.54	42	eP	08	52.30	0.0
BRK	72.69	41	eP	08	53.20	0.1
8KS	72.71	41	iPd	08	53.60	0.3
	0.8s	74.00nm			5.5mb	
MHC	72.76	41	eP	08	53.90	0.2
LLA	72.78	42	eP	08	53.80	0.1
ABL	72.89	45	P	08	54.50	-0.2
MWC	73.34	46	eP	08	59.00	1.8
PLM	73.70	47	P	08	59.20	-0.1
SPA	73.75	180	eP	08	59.00	-0.1
	1.0s	12.50nm			4.6mb	
		e		09	35.00	146km
PEC	73.78	47	P	08	58.90	-0.7
	0.6s	2.38nm			4.1mb	
FRI	73.80	43	eP	08	59.20	-0.4
ISA	73.86	44	eP	09	00.00	-0.1
CMB	73.97	42	eP	09	00.30	-0.4
ORV	74.19	40	eP	09	01.50	-0.3
WDC	74.19	38	eP	09	01.70	-0.1
CLC	74.53	45	eP	09	04.00	0.0
MIN	74.61	39	eP	09	04.00	-0.4
TPC	74.67	47	eP	09	04.00	-0.8
GSC	74.79	46	eP	09	05.00	-0.5
LBFM	75.05	38	P	09	06.50	-0.5
BONR	75.27	43	P	09	07.50	-0.9
KVN	76.02	42	P	09	12.20	-0.3
TNP	76.05	43	P	09	11.00	-1.7
	0.8s	17.65nm			4.9mb	
SVW	78.61	9	eP	09	25.40	-0.7
RMW	78.92	33	P	09	28.10	0.0
MDJ	79.32	323	eP	09	28.80	-1.4
MSU	79.63	45	P	09	32.80	0.4
NJ2	80.14	308	eP	09	35.00	0.2
PMR	80.20	12	eP	09	34.00	-0.5
	1.1s	42.10nm			5.1mb	
TTA	80.30	8	eP	09	35.50	0.4
ANM	80.95	4	eP	09	39.00	0.6
PNT	81.22	33	eP	09	40.00	-0.2
	0.8s	14.00nm			4.8mb	
TOA	81.27	13	eP	09	40.80	0.5
CN2	81.33	320	P	09	41.00	0.2
SNY	81.47	318	eP	09	41.20	-0.4
	1.6s	40.00nm			4.9mb	
NEW	81.92	35	P	09	42.90	-0.9
	0.7s	4.10nm			4.3mb	
ALQ	81.99	50	ePc	09	45.00	0.3
	1.1s	21.20nm			4.8mb	
ANMO	81.99	50	P	09	44.40	-0.3
	1.2s	103.52nm			5.4mb	
WHN	83.00	305	eP	09	52.00	2.2
LRM	83.23	38	ePc	09	50.60	-0.3
FBA	83.47	11	ePc	09	51.00	-0.4
BW06	83.48	42	P	09	51.80	-0.5
	0.9s	19.07nm			4.9mb	
IMA	83.61	8	eP	09	52.30	0.0
	1.4s	19.90nm			4.8mb	
GOL	84.86	46	P	09	59.30	0.1
	0.8s	5.06nm			4.4mb	
BJI	85.58	314	eP	10	03.00	0.6
	1.3s	45.00nm			5.2mb	
SES	86.41	35	ePc	10	05.50	-0.9
TIY	87.29	310	Pc	10	12.40	1.5
RSSD	87.67	43	P	10	11.70	-1.1
	1.0s	8.95nm			4.7mb	
XAN	88.57	306	Pc	10	18.30	1.1
HHC	89.12	313	P	10	21.20	1.5
INK	89.37	14	eP	10	19.00	-1.1
			pP	10	57.00	149km
BTO	90.11	312	eP	10	25.00	0.7
KMI	90.76	296	eP	10	29.00	1.3
YKA	91.27	24	eP	10	27.50	-1.4
	1.3s	4.90nm			4.5mb	
KRA	144.49	344	ePKP	16	58.20	-1.6
KSP	144.58	349	iPKP	16	59.80	-0.2
CLL	144.66	352	iPKP	16	58.60	-1.5
			e	17	45.00	
BRG	144.95	351	ePKP	16	59.70	-0.9
SPC	145.20	343	ePKP	17	01.70	0.4
MOX	145.47	353	ePKP	17	02.00	0.5
	1.2s	23.00nm				
PRU	145.71	350	ePKP	17	02.20	0.3
	1.5s	33.50nm				
			e	17	13.30	
			e	17	41.10	
VRI	145.77	334	ePKP	17	04.00	1.8
MEM	145.83	360	PKP	17	03.60	1.6
DOU	146.33	1	PKP	17	04.40	1.5
MLR	146.40	334	ePKP	17	05.00	1.6
GRF	146.46	354	ePKP	17	06.00	2.8X
KHC	146.70	351	ePKP	17	06.00	2.4X
			e	17	42.00	
ZST	146.92	346	ePKP	17	07.80	3.9X
FLN	147.27	8	ePKP	17	06.10	1.6
	0.8s	20.15nm				
LDF	147.48	7	ePKP	17	06.70	1.9
	0.7s	12.15nm				
GRR	147.59	8	ePKP	17	07.20	2.2X
	0.8s	25.50nm				
LPF	147.91	9	ePKP	17	08.20	2.7X
	0.8s	36.25nm				
BZS	147.96	339	ePKPc	17	06.50	0.9
CDF	148.01	358	ePKP	17	08.40	2.6X
	0.7s	8.80nm				
HAU	148.43	359	ePKP	17	09.70	3.3X
	0.7s	8.80nm				
BSF	148.60	359	ePKP	17	09.90	3.1X
LOR	149.13	3	ePKP	17	11.60	4.1X
SSF	149.32	3	ePKP	17	12.20	4.4X
	1.2s	26.80nm				
LBF	149.42	2	ePKP	17	12.10	4.1X
MFF	149.43	8	ePKP	17	12.10	4.1X
LJU	149.51	348	ePKP	17	13.20	5.1X
AVF	149.58	3	ePKP	17	12.40	4.3X
	1.0s	8.00nm				
VOY	149.65	349	ePKP	17	13.70	5.3X
SMF	149.75	3	ePKP	17	12.80	4.4X
	1.1s	18.30nm				
BGF	149.78	4	ePKP	17	13.00	4.5X
	1.2s	31.25nm				
VBY	149.88	347	ePKPc	17	14.90	6.3X
			e	17	22.70	
LSF	149.98	6	ePKP	17	13.20	4.4X
	1.0s	19.00nm				
TCF	150.00	5	ePKP	17	13.50	4.6X
	1.0s	11.00nm				
MAF	150.10	5	ePKP	17	13.90	4.9X
	1.1s	24.40nm				
RJF	150.91	6	ePKP	17	15.70	5.5X
LPL	150.92	359	ePKP	17	15.80	5.3X
	0.9s	6.55nm				
SKO	151.15	335	ePKP	17	17.10	6.4X
LFF	151.18	7	ePKP	17	16.60	6.0X
CAF	151.34	6	ePKP	17	16.80	5.9X
LPO	151.49	7	ePKP	17	16.90	5.8X
LKO	166.99	120	PKP	17	29.08	-0.3
	0.8s	12.00nm				

S.D. = 1.0 on 98 of 131 obs.

& MAR 31, 1991 10h 54m 43.08s
63.181 N 149.833 W
DEPTH = 99.9km
2.7mb (1 obs.)

CENTRAL ALASKA (1)
<AEIC>.

HUR	0.22	156	iPc	54	57.14	1.3
			eS	55	08.39	
TRF	0.34	323	iPd	54	58.21	-0.1
			iS	55	09.25	
RND	0.50	63	iPd	54	58.87	-0.3
MCK	0.68	36	iPd	55	00.40	-0.2
			eS	55	12.83	
CUT	0.80	195	iPc	55	01.38	-0.3
BWN	1.01	9	iPd	55	03.71	-0.2
			eS	55	18.53	
SKT	1.44	214	iPd	55	08.35	-0.6
			eS	55	27.75	
NEA	1.44	13	iPd	55	08.31	-0.7
			eS	55	27.13	
GHO	1.48	163	iPc	55	09.50	0.0
			eS	55	29.75	
WRH	1.51	30	iPd	55	09.10	-0.7
PWA	1.54	181	ePd	55	10.06	-0.1
PLRM	1.63	168	ePd	55	10.81	-0.5
PMR	1.63	168	ePd	55	11.30	0.0
			eS	55	34.70	
CCB	1.72	30	iPd	55	11.66	-0.9
HDA	1.77	45	iPd	55	12.51	-0.7
SUA	1.78	194	ePc	55	12.94	-0.4
			S	55	38.06	
RDS	1.81	23	iPd	55	13.10	-0.6
THY	1.86	81	eP	55	15.24	0.9
			S	55	39.70	
DDM	1.88	69	eP	55	14.38	-0.3
KNK	1.89	159	ePd	55	14.40	-0.3
			S	55	38.74	
MDM	1.92	21	iPd	55	14.57	-0.6
FBA	1.95	27	iPd	55	15.30	-0.1
PMS	1.95	176	ePc	55	15.09	-0.4
PAX	2.00	94	ePc	55	16.15	-0.1
TOA	2.01	121	iPc	55	17.00	0.7
SDG	2.07	107	iPc	55	16.97	-0.2
NCG	2.09	212	eP	55	16.54	-0.9
			S	55	42.89	
GLM	2.11	30	iPd	55	16.90	-0.7
CRP	2.21	211	ePd	55	18.23	-0.8
SPU	2.26	208	iPd	55	18.58	-1.1
BGL	2.27	213	ePd	55	19.26	-0.5
CKL	2.31	212	eP	55	19.29	-1.1
TZL	2.34	117	eP	55	20.53	-0.1
NKA	2.54	196	eP	55	25.27	2.0
VZW	2.63	143	ePc	55	22.94	-1.7
VLZ	2.63	140	ePc	55	22.73	-1.8
DOT	2.64	77	eP	55	24.15	-0.6
GLI	2.65	150	ePc	55	23.19	-1.6
SLKM	2.69	184	eP	55	24.86	-0.5
TTA	2.82	268	iP	55	26.80	-0.5
RDT	2.89	206	eP	55	26.88	-1.2
NCT	3.01	211	ePc	55	28.83	-1.0
KNIM	3.01	160	ePc	55	28.07	-1.7
			eS	56	03.78	
RDN	3.02	209	eP	55	28.63	-1.3
REF	3.02	208	eP	55	29.28	-0.8
RS2	3.06	208	eP	55	29.79	-0.8
RSO	3.06	208	eP	55	29.88	-0.7
SEW	3.09	176	eP	55	29.70	-1.1
TMW	3.10	84	eP	55	29.58	-1.3
RED	3.10	208	eP	55	30.08	-1.0
NNL	3.23	193	iPc	55	33.22	0.5
LTI	3.29	162	eP	55	32.21	-1.3
GLB	3.31	119	iPc	55	32.85	-1.0
			eS	56	10.91	
IMA	3.34	332	ePc	55	33.80	-0.5
MTU	3.37	161	eP	55	33.03	-1.6
SVW	3.42	235	iPd	55	34.10	-1.3
BRLK	3.47	189	ePd	55	34.92	-1.1
HOM	3.64	195	eP	55	37.51	-0.8
CNPM	3.73	191	iPd	55	38.54	-1.1
FYU	3.92	28	ePd	55	41.37	-0.8
TGL	4.10	123	ePc	55	42.69	-2.1
BALM	4.12	118	ePc	55	43.28	-1.8
AUE	4.20	206	eP	55	44.60	-1.4
MCNL	4.56	211	eP	55	49.46	-1.6
CTGM	4.57	115	eP	55	50.24	-1.1
CDD	4.65	205	iPc	55	51.03	-1.2
SYI	4.75	196	eP	55	51.67	-1.9
ANM	7.00	288	eP	56	24.60	0.0
INK	8.44	45	ePd	56	42.90	-1.3
YKA	15.98	77	eP	58	23.60	0.7

0.9s 0.50nm 2.7mb
70 obs. associoted

% MAR 31, 1991 11h 38m 53.56± 0.81s
39.702 N ± 6.5km 29.323 E ± 7.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

DST	0.55	260	ePg	39	04.70	0.1
			eSg	39	17.90	
IZI	0.64	10	iPg	39	07.10	0.6
YLV	0.86	2	iPn	39	10.00	-0.2
KCT	0.92	307	ePn	39	11.00	-0.2
EYL	1.07	36	ePn	39	13.60	-0.2
BNT	1.26	302	ePn	39	21.00	4.0X
KHL	1.39	173	ePn	39	19.00	0.0

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

% MAR 31, 1991 11h 49m 18.42± 3.30s
39.567 N ±24.8km 29.403 E ±15.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

DST	0.60	274	ePg	49	30.00	-0.6
			eSg	49	42.20	
IZI	0.77	4	iPg	49	33.50	0.0
YLV	1.00	359	iPn	49	37.00	-0.4
KCT	1.05	311	ePn	49	38.00	-0.3
EYL	1.15	30	ePn	49	40.10	0.0
BNT	1.39	305	ePn	49	45.00	1.2

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

& MAR 31, 1991 11h 58m 18.09s
61.586 N 146.461 W
DEPTH = 26.3km
SOUTHERN ALASKA (2)
<AEIC>.

KLU	0.28	110	iPc	58	25.08	0.1
VLZ	0.46	172	iPd	58	26.92	-0.7
			iS	58	34.09	
VZW	0.53	185	iPd	58	28.00	-0.9
			eS	58	36.18	
TOA	0.54	15	iPd	58	28.16	-0.9
			iS	58	35.64	
TZL	0.67	46	ePc	58	30.28	-0.9
			eS	58	39.42	
GLI	0.77	204	ePd	58	31.57	-1.3
KNK	0.97	261	iPc	58	34.66	-1.3
			eS	58	47.55	
SDG	1.04	24	iPc	58	35.15	-1.8
			eS	58	48.64	
GHO	1.19	280	iPc	58	37.21	-1.9
PLRM	1.28	271	ePc	58	38.85	-1.4
			eS	58	56.25	
GLB	1.28	95	iPc	58	38.66	-1.7
			eS	58	55.27	
KNIM	1.39	207	iPd	58	41.31	-0.6
PAX	1.47	18	ePc	58	41.06	-2.0
PMS	1.53	258	ePc	58	43.34	-0.6
			eS	59	03.60	
PWA	1.63	274	iPc	58	44.56	-0.9
LTI	1.69	204	eP	58	45.55	-0.8
MTU	1.71	201	eP	58	46.03	-0.5
TGL	1.95	114	eP	58	48.52	-1.6
CUT	1.98	296	iPc	58	49.70	-0.7
			eS	59	14.52	
HUR	2.04	315	eP	58	50.69	-0.6
SUA	2.06	268	iPc	58	51.23	-0.5
BALM	2.06	104	ePc	58	50.21	-1.6
SEW	2.09	226	eP	58	51.90	-0.1
SLKM	2.13	241	eP	58	52.39	-0.2
RND	2.14	330	iPd	58	52.06	-0.8
MCK	2.44	333	ePc	58	56.56	-0.5
SKT	2.44	282	ePc	58	55.80	-1.3
NKA	2.46	252	eP	58	58.93	1.6
CTGM	2.55	102	ePc	58	57.96	-0.8
SPU	2.72	264	iPc	59	00.15	-0.9
NCG	2.74	269	eP	59	01.08	-0.3
CRP	2.76	266	eP	59	02.10	0.5
HDA	2.84	356	eP	59	02.03	-0.6
CKL	2.85	265	eP	59	01.07	-1.9
BGL	2.87	266	eP	59	01.80	-1.3
BWN	2.94	333	eP	59	02.91	-1.1
RDT	3.06	253	eP	59	03.77	-2.1
CCB	3.13	349	eP	59	05.75	-1.1
CNPM	3.14	231	eP	59	05.14	-1.8
REF	3.23	253	eP	59	07.80	-0.6
NEA	3.23	340	eP	59	07.71	-0.5
RDN	3.25	253	eP	59	06.85	-1.7
RSO	3.26	253	eP	59	07.98	-0.9
RS2	3.26	253	eP	59	10.82	1.9
RDS	3.34	348	eP	59	08.88	-0.9
GLM	3.44	353	eP	59	10.65	-0.6
MDM	3.48	347	eP	59	11.05	-0.8

47 obs. associated

? MAR 31, 1991 12h 56m 09.97± 8.29s
5.586 S ±81.8km 128.091 E ±20.2km
DEPTH = 239.8 ± 29.3 km
BANDA SEA (280)

KUPT	6.35	224	iPd	57	42.30	-0.6
			eS	58	41.00	
MTN	7.81	158	eP	58	02.60	1.0
KNA	10.12	176	eP	58	32.00	0.8
WB2	15.52	157	iPd	59	36.10	-2.1
	0.3s	28.80nm				5.2mb X
			iS	02	11.50	
MBL	17.43	207	iPc	00	00.50	0.9
QIS	18.62	144	eP	00	13.00	1.0
ASPA	18.83	163	iPc	00	13.20	-1.0
	0.3s	38.50nm				5.4mb X
			eS	03	20.60	
MEKA	22.81	203	eP	00	53.50	0.1
STK	29.05	156	iPd	02	10.60	20.5X
	1.2s	2.80nm				

S.D. = 1.5 on 8 of 9 obs.

? MAR 31, 1991 13h 10m 42.40± 7.93s
5.973 S ±72.1km 130.367 E ±22.9km
DEPTH = 33.0km (normal)
4.0mb (1 obs.)
BANDA SEA (280)

MTN	6.87	174	eP	12	25.00	1.5
	0.3s	168.00nm				6.5mb X
KNA	9.84	189	eP	13	03.50	-1.3
			eS	14	44.00	
WB2	14.42	165	eP	14	03.00	-3.2X
	0.1s	14.00nm				5.5mb X
			iS	16	34.70	
QIS	17.05	149	eP	14	40.00	0.0
			eS	17	40.00	
ASPA	17.92	169	iPc	14	50.10	-0.8
	0.9s	10.60nm				4.0mb
			eS	17	53.80	
MBL	18.22	213	iPd	14	55.10	0.5
			eS	18	02.00	

S.D. = 1.5 on 5 of 6 obs.

% MAR 31, 1991 13h 22m 29.77± 2.06s
45.990 N ±11.5km 0.654 W ±21.2km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.5 (LDG).

MFF	0.71	30	Pg	22	42.80	-0.9
			Sg	22	55.60	
LFF	1.44	136	Pg	22	52.20	-3.6X
			Sg	23	13.00	
LSF	1.54	80	Pg	22	58.40	1.1
			Sg	23	20.00	
RJF	1.67	113	Pg	22	58.20	-1.0
			Sg	23	22.00	
LPO	1.84	135	Pg	23	01.20	-0.5
			Sg	23	26.00	
LPF	2.06	353	Pg	23	05.20	0.4
			Sg	23	31.60	
CAF	2.19	118	Pg	23	07.60	0.8
			Sg	23	39.00	

S.D. = 1.2 on 6 of 7 obs.

& MAR 31, 1991 13h 39m 33.92s
47.429 N 124.008 W
DEPTH = 25.4km
2.4mb (1 obs.)
NEAR COAST OF WASHINGTON (27)
<SEA>. CL 2.7 (SEA).

OOW	0.33	338	Pc	39	41.01	-0.5
OSD	0.44	28	Pd	39	42.63	-0.8
			S	39	49.05	
SMW	0.47	103	Pc	39	42.98	-0.6
OFK	0.57	336	Pd	39	44.41	-0.9
ONR	0.58	164	Pc	39	45.10	-0.3
OBC	0.61	356	P	39	45.06	-0.9

31d 13h

HDW	0.68	71	Pc	39 46.62	-0.6	
OTR	0.69	341	Pd	39 46.37	-1.0	
CPW	0.75	127	Pc	39 47.09	-1.2	
STW	0.76	17	Pc	39 47.31	-1.1	
GMW	0.84	81	Pc	39 48.57	-1.2	
BLN	0.91	50	Pc	39 49.74	-1.2	
OSP	0.94	336	P	39 49.04	-2.4	
MEW	0.95	103	P	39 50.96	-0.6	
PGW	1.03	67	P	39 51.86	-0.8	
BMW	1.09	150	Pc	39 52.06	-1.6	
SPW	1.20	83	P	39 54.55	-0.6	
GHW	1.24	108	P	39 54.41	-1.3	
OHW	1.34	47	P	39 55.84	-1.2	
NLO	1.39	164	P	39 56.77	-1.2	
LMW	1.40	122	Pc	39 56.82	-1.2	
CZM	1.43	133	Pc	39 57.41	-1.0	
RVC	1.47	109	Pc	39 57.92	-1.2	
MCW	1.48	32	P	39 57.62	-1.5	
RMW	1.50	88	Pc	39 57.87	-1.6	
GSM	1.52	98	Pc	39 58.59	-1.3	
RVW	1.55	145	P	39 59.05	-1.1	
HTW	1.56	75	P	39 59.02	-1.3	
KOSW	1.58	127	P	39 59.71	-0.9	
JCW	1.60	61	P	39 59.60	-1.2	
ERK	1.60	134	Pc	39 59.74	-1.3	
TDL	1.64	131	P	40 00.50	-1.0	
LON	1.65	114	P	40 00.26	-1.4	
FMW	1.67	106	Pc	40 00.61	-1.4	
FL2	1.68	137	P	40 01.16	-1.0	
STD	1.71	134	P	40 01.57	-1.0	
SHW	1.73	135	P	40 02.21	-0.7	
LVP	1.75	140	P	40 02.18	-1.0	
SOSW	1.75	132	P	40 02.04	-1.2	
ESD	1.77	133	P	40 02.91	-0.6	
HSR	1.78	134	P	40 02.93	-0.6	
JLK	1.81	135	P	40 03.46	-0.5	
KMOR	1.83	169	Pc	40 02.27	-2.0	
WPW	1.83	113	P	40 03.20	-1.2	
GLK	1.86	117	P	40 03.77	-0.9	
MTMW	1.87	138	P	40 04.19	-0.7	
CDFW	1.88	134	P	40 04.45	-0.5	
MBW	1.96	45	Pd	40 05.28	-0.9	
RPW	1.96	58	Pc	40 04.96	-1.2	
ASR	2.10	127	P	40 07.41	-0.7	
TWW	2.16	97	P	40 08.40	-0.6	
GULW	2.24	131	P	40 08.63	-1.6	
NAC	2.28	107	P	40 09.98	-0.7	
VLMM	2.33	144	P	40 11.11	-0.3	
TBM	2.34	95	P	40 10.72	-0.8	
EBG	2.40	101	P	40 11.12	-1.3	
ETW	2.50	85	P	40 12.79	-1.1	
VLL	2.54	140	P	40 14.59	0.1	
NLW	2.56	74	P	40 13.23	-1.6	
GT2	2.57	151	P	40 14.12	-0.8	
GL2	2.64	123	P	40 19.27	3.4	
MXC	2.68	107	P	40 19.92	3.5	
CBSW	2.71	81	P	40 14.87	-2.0	
VBEM	2.90	144	P	40 19.54	-0.1	
BRVW	2.91	107	P	40 23.48	3.9	
DHW2	2.92	77	P	40 17.82	-1.9	
CRF	3.21	99	P	40 22.04	-1.8	
YKA	16.00	16	eP	43 19.00	0.4	
	0.6s		0.20nm		2.4mb	
	68 obs. associated					

MAR 31, 1991 14h 44m 37.82± 1.24s
40.792 N ± 6.6km 27.902 E ±11.2km
DEPTH = 12.1 ± 9.0 km
TURKEY (366)

BNT	0.44	178	iPg	44 47.50	0.7	
			iSg	44 52.50		
CTT	0.53	48	iPg	44 49.00	0.4	
			iSg	44 57.00		
KCT	0.64	147	ePg	44 50.00	-0.5	
ISK	0.92	72	ePg	44 56.50	1.3	
DMK	1.03	354	iPg	44 56.60	-0.5	
			eSg	45 10.60		
YLV	1.14	101	ePn	44 57.40	-1.6	
DST	1.31	155	ePn	45 02.00	0.1	
HRT	1.34	88	ePn	45 02.50	0.2	
S.D. = 1.2 on 8 of 8 obs.						

MAR 31, 1991 15h 22m 59.99± 0.64s
45.340 N ± 4.1km 6.730 E ± 6.5km
DEPTH = 5.0km (geophysicist)
FRANCE (538)

ML 2.4 (LDG), 2.1 (GEN).

LPG	0.16	5	Pg	23 03.00	-0.4	
			Sg	23 06.40		
LPL	0.18	1	Pg	23 03.00	-0.7	
			Sg	23 06.40		
BNI	0.29	188	P	23 04.80	-1.1	
			eSg	23 09.30		
LSD	0.32	68	P	23 07.04	0.5	
			S	23 13.32		
RSP	0.42	117	P	23 09.50	1.1	
			S	23 17.00		
RRL	0.42	175	P	23 07.88	-0.6	
			S	23 14.10		
BHB	0.63	143	P	23 12.62	0.1	
			S	23 22.84		
PZZ	0.88	162	P	23 28.52	11.1X	
ORX	0.93	71	P	23 17.25	-1.0	
			S	23 31.36		
FRF	1.78	182	Pg	23 32.40	0.8	
			Sg	23 56.40		
LBF	2.52	312	Pg	23 43.60	1.3	
			Sg	24 14.40		
LOR	2.77	315	Pg	23 48.00	2.1X	
			Sg	24 22.20		
S.D. = 1.0 on 10 of 12 obs.						

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* MAR 31, 1991 16h 45m 00.61± 1.17s
34.735 N ±10.2km 139.998 E ± 8.0km
DEPTH = 30.3 ± 6.0 km
4.2mb (3 obs.)
NEAR S. COAST OF HONSHU, JAPAN (230)

KAKJ	1.47	6	iP+	45 25.40	0.1	
			eS	45 42.70		
CHJJ	1.55	328	iP+	45 25.40	-1.0	
			S	45 43.00		
IIDJ	1.87	294	P	45 31.60	0.5	
			S	45 52.90		
MAT	2.32	322	iPc	45 37.20	-0.3	
			eS	46 02.00		
MTMJ	2.57	317	P	45 41.30	0.2	
			S	46 10.20		
NIIJ	2.63	342	P	45 40.80	-1.0	
TSRJ	3.39	285	eP	45 52.10	-0.5	
YAMJ	3.43	1	P	45 53.00	-0.3	
WKYJ	3.67	263	P	45 57.00	0.2	
WRA	54.64	187	P	54 28.00	-0.8	
	0.5s		1.20nm		4.2mb	
INK	56.95	26	eP	54 45.50	0.5	
YKA	66.37	29	eP	55 48.50	0.2	
	0.6s		1.20nm		4.2mb	
NB2	75.85	337	P	56 44.40	-1.0	
	0.7s		1.30nm		4.0mb	
FRB	79.27	12	eP	57 05.00	0.9	
ZOBO	148.82	61	PKP	04 50.50	6.6X	
LPB	149.01	61	ePKP	04 57.00	13.0X	
CNCB	149.28	62	PKP	04 52.00	7.4X	
S.D. = 0.7 on 14 of 17 obs.						

& MAR 31, 1991 17h 21m 46.45s
59.726 N 152.743 W
DEPTH = 86.2km
3.4mb (1 obs.)
SOUTHERN ALASKA (2)
<AEIC>.

AUI	0.52	222	iPc	22 00.60	-0.6	
			eS	22 11.08		
XLV	0.59	117	iPc	22 01.28	-0.5	
RED	0.70	359	iPd	22 02.16	-0.7	
			eS	22 14.48		
PDB	0.74	275	iPc	22 02.36	-0.8	
			iS	22 14.72		
RSO	0.74	360	iPd	22 02.82	-0.7	
RS2	0.74	359	iPd	22 02.84	-0.6	
REF	0.77	2	iPd	22 03.06	-0.7	
RDN	0.79	359	iPd	22 03.32	-0.6	
			iS	22 16.39		
CNPM	0.79	104	ePc	22 03.03	-0.8	
			eS	22 15.82		
NNL	0.80	66	iPc	22 04.26	0.4	
NCT	0.84	354	iPd	22 03.76	-0.7	
			eS	22 17.22		
RDT	0.87	11	iPd	22 03.79	-0.9	
			eS	22 17.56		
BRLK	0.94	87	iPc	22 04.46	-1.0	
			eS	22 18.36		
MCNL	0.98	237	iPc	22 04.81	-1.1	
			eS	22 19.07		
SYI	1.13	171	iPd	22 07.16	-0.6	
			eS	22 22.70		
NKA	1.27	36	iPd	22 10.43	1.0	
SLKM	1.49	57	eP	22 11.30	-1.0	
CKL	1.49	8	iPd	22 11.72	-0.7	
SPU	1.50	13	iPd	22 11.75	-0.7	
BGL	1.55	6	iPd	22 12.62	-0.6	
CRP	1.57	10	eP	22 12.92	-0.6	
SEW	1.70	76	eP	22 13.64	-1.4	
NCG	1.71	10	iPd	22 14.65	-0.6	
SVW	1.99	315	iPd	22 17.69	-1.3	
			eS	22 38.93		
SUA	2.00	29	ePd	22 18.53	-0.7	
			eS	22 43.60		
PMS	2.19	45	ePd	22 20.80	-0.9	
SKT	2.34	14	iPd	22 22.58	-1.1	
			eS	22 51.48		
PWA	2.39	35	ePd	22 23.72	-0.6	
LTI	2.48	81	iPc	22 23.87	-1.8	
MTU	2.58	82	eP	22 25.45	-1.6	
PLRM	2.58	42	ePd	22 25.17	-1.8	
KNIM	2.59	74	ePc	22 24.67	-2.4	
KNK	2.71	50	eP	22 26.69	-2.1	
GHO	2.78	41	ePd	22 28.22	-1.6	
CUT	2.94	23	eP	22 30.91	-1.0	
GLI	3.04	65	eP	22 30.41	-2.9	
VZW	3.35	64	eP	22 35.13	-2.5	
VLZ	3.48	63	eP	22 37.04	-2.2	
TTA	3.58	335	ePd	22 39.21	-1.6	
HUR	3.59	23	eP	22 40.38	-0.5	
KLU	3.80	59	ePc	22 41.38	-2.5	
TRF	3.92	16	eP	22 44.59	-1.0	
TOA	4.00	51	eP	22 44.95	-1.7	
RND	4.13	25	eP	22 46.81	-1.8	
MCK	4.41	23	eP	22 51.16	-1.2	
SDG	4.48	48	eP	22 51.88	-1.5	
BWN	4.72	18	eP	22 55.32	-1.3	
GLB	4.73	65	eP	22 53.39	-3.4	
PAX	4.78	44	eP	22 55.65	-1.9	
TGL	5.05	74	eP	22 58.62	-2.7	
DDM	5.22	36	eP	23 03.06	-0.6	
WRH	5.24	23	eP	23 01.43	-2.4	
BALM	5.32	71	eP	23 02.79	-2.4	
HDA	5.43	28	eP	23 04.26	-2.2	
CCB	5.45	23	eP	23 04.14	-2.6	
RDS	5.55	21	eP	23 05.56	-2.6	
MDM	5.66	20	eP	23 07.21	-2.5	
CTGM	5.80	73	ePc	23 09.82	-2.0	
YKA	18.45	65	eP	25 54.40	-3.0	
	0.4s		0.90nm		3.4mb	
	59 obs. associated					

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* MAR 31, 1991 21h 28m 37.66± 2.47s
34.989 N ±28.9km 24.345 E ±12.8km
DEPTH = 87.8 ± 12.2 km
3.4mb (2 obs.)
CRETE (370)
MD 3.9 (ATH).

NPS	1.07	75	ePb	28 57.90	-0.5	
			eSn	29 14.00		
VLI	2.07	327	ePn	29 11.50	0.2	
			eSn	29 40.00		
ATH	3.02	351	ePn	29 23.70	-0.5	
ARG	3.32	67	ePn	29 28.00	-0.3	
YER	3.84	55	iPn	29 35.80	0.1	
ELL	4.85	67	iPn	29 50.70	1.0	
OHR	6.72	336	ePn	30 11.80	-3.8X	
KHC	16.21	334	P	32 24.00	2.7X	
GRF	17.57	331	eP	32 39.00	0.9	
MEM	20.52	325	P	33 11.50	0.8	
DOU	20.87	322	P	33 13.50	-0.8	
NB2	27.40	346	P	34 15.40	-1.1	
	0.6s		1.40nm		3.7mb	
YKA	77.40	342	eP	40 24.30	0.1	
	0.4s		0.10nm		3.0mb	
S.D. = 0.8 on 11 of 13 obs.						

% MAR 31, 1991 21h 35m 24.63± 1.02s
39.804 N ±11.6km 113.838 E ± 9.3km
DEPTH = 10.0km (geophysicist)
NORTHEASTERN CHINA (658)
ML 3.6 (BJI).

```
BJI      1.81  82 Pgd    35 55.50   -0.6
                 Sg     36 21.00
HHC      2.03 302 Pg     35 59.80    0.5
                 Sg     36 27.30
TIY      2.36 208 Pnc    36 04.70    0.6
                 iPgc   36 07.30
                 Sg     36 38.80
BTO      3.03 286 Pg     36 17.20    3.6X
                 Sg     36 54.80
TIA      4.43 143 ePn    36 34.20    0.8
                 ePg    36 44.60
                 Sn     37 22.20
                 Sg     37 40.20
XAN      6.97 216 ePn    37 08.00   -1.3
LZH      8.72 248 eP     38 00.00   26.1X
                 Lg     39 54.00
                 Lg     40 02.50
GTA     10.83 272 eP     37 56.40   -6.5X
     S.D. = 1.3  on   5 of   8 obs.
-------------------------------------
   MAR 31, 1991  22h 39m 10.53± 0.31s
   16.656 S ±11.1km  172.703 W ± 5.8km
   DEPTH =  33.0km  (normal)
   5.2mb ( 21 obs.)  5.0Msz (  3 obs.)
 SAMOA ISLANDS REGION              (169)
      Mo=2.0*10**17 Nm (PPT).
      CENTROID, MOMENT TENSOR      (HRV)
      Data Used: GDSN
      L.P.B.: 16S, 33C
      Centroid Location:
      Origin Time        22:39:17.1 0.8
      Lat 16.55S 0.13 Lon 172.34W 0.08
      Dep  15.0 FIX Half-duration  1.6
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 0.83 0.06  Mtt= 0.06 0.10
        Mff=-0.89 0.10  Mrt= 0.33 0.19
        Mrf= 1.15 0.22  Mtf=-0.34 0.06
       Principal Axes:
        T  Val=  1.43  Plg=64  Azm=285
        N        0.16       1       17
        P       -1.59      26      107
      Best Double Couple:Mo=1.5*10**17
       NP1:Strike=199 Dip=19 Slip=  93
       NP2:         16     71      89

SVA      8.56 259 eP     41 20.30    5.1X
SGE      9.01 263 eP     41 26.70    5.2X
RAR     13.04 112 P      42 09.00   -7.2X
                 S      44 17.00
PVC     18.17 264 iPc    43 24.70    2.7X
DZM     20.39 251 iPc    43 46.90   -0.6
PAE     22.12  96 eP     44 07.00    2.1
        1.6s    125.00nm          5.1mb
TVO     22.43  96 eP     44 09.00    0.9
        1.6s    175.00nm          5.3mb
NOZ     23.34 199 P      44 20.70    4.0X
PMO     23.92  90 iP     44 22.00   -0.5
        1.6s    240.00nm          5.5mb
VAH     24.15  90 iP     44 23.60   -1.1
        1.6s    125.00nm          5.2mb
TPT     24.19  90 iP     44 24.60   -0.5
        1.6s    240.00nm          5.5mb
RUV     24.39  90 iP     44 25.90   -1.2
        1.6s    125.00nm          5.2mb
KHZ     28.25 202 eP     45 07.90    5.3X
LTZ     29.03 203 eP     45 15.20    5.5X
COO     35.11 240 eP     46 03.00   -0.1
CTA     39.03 259 eP     46 35.00   -1.2
                 eS     52 50.00
PMG     39.71 275 e(P)   46 40.00   -1.8
CMS     40.39 241 eP     46 46.00   -1.2
STK     44.01 241 eP     47 36.20   19.4X
        1.2s     5.60nm
WB2     50.21 258 eP     47 58.60   -7.1X
        1.3s     3.70nm          4.2mb
WRA     50.22 258 P      48 03.00   -2.7
        1.0s     6.00nm          4.6mb
ASPA    50.37 253 iPc    48 04.60   -2.3
        0.7s    27.60nm          5.4mb
      Z 17s     3.10um          5.4MszX
                 eS     55 13.90
SBA     62.06 185 P      49 33.60    3.8X
CGP     66.75 287 eP     50 02.50    1.3
MAT     70.32 320 eP     50 28.00    5.0X
                 eS     59 50.00
PRS     71.60  42 eP     50 35.30    4.5X
PRI     71.94  42 eP     50 38.70    5.8X

MWC     72.53  45 eP     50 38.00    1.4
BAR     72.63  47 eP     50 43.00    6.1X
PLM     72.87  46 eP     50 39.00    0.5
SBB     72.96  45 eP     50 38.00   -0.9
PEC     72.96  46 P      50 40.00    1.1
FRI     73.06  42 eP     50 39.00   -0.3
ISA     73.09  44 eP     50 27.00  -12.6X
CMB     73.27  41 eP     50 39.90   -0.7
SPA     73.45 180 iPd    50 43.00    1.6
        1.5s    45.45nm          5.2mb
ORV     73.52  39 P      50 39.00   -3.0X
WDC     73.55  38 eP     50 41.00   -1.1
CLC     73.76  44 eP     50 44.00    0.5
TPC     73.85  46 eP     50 45.00    1.0
GSC     73.99  45 eP     50 49.00    4.1X
GLA     74.13  48 eP     50 45.00   -0.7
TNP     75.31  42 P      50 50.70   -1.9
        1.0s    18.75nm          5.0mb
RSO     78.52  10 P      51 11.20    1.2
SVW     78.70   8 eP     51 13.30    2.5X
PMR     80.21  11 eP     51 17.70   -1.1
        1.3s    25.80nm          5.1mb
MDJ     80.42 322 eP     51 20.50    0.1
PNT     80.71  32 eP     51 20.00   -1.8
        0.9s    14.00nm          5.0mb
PV09    80.90  45 P      51 23.00   -0.4
ALQ     81.09  50 eP     51 24.00   -0.4
        1.5s    29.86nm          5.1mb
ANMO    81.10  50 P      51 25.00    0.6
        1.5s    34.72nm          5.1mb
TOA     81.26  12 eP     51 24.20   -0.3
CN2     82.47 320 Pc     51 30.80   -0.3
        4.0s   300.00nm          5.7mb X
      Z 16s     0.70um          5.1MszX
LRM     82.59  38 eP     51 31.40   -0.6
SNY     82.65 317 Pc     51 32.60    0.6
        1.6s    50.00nm          5.3mb
BW06    82.76  41 P      51 31.80   -1.1
        1.5s    22.88nm          5.0mb
FBA     83.50  10 eP     51 35.20   -0.7
IMA     83.71   8 eP     51 36.50   -0.6
GOL     84.04  46 P      51 39.50   -0.1
GLD     84.17  46 P      51 39.50   -0.6
SES     85.85  34 ePd    51 46.80   -1.3
BJI     86.81 313 eP     51 54.00    1.1
        4.0s   470.00nm          6.1mb X
      Z 16s     0.35um          4.9MszX
                 eSKS   02 21.00
RSSD    86.93  42 P      51 55.00    1.3
TIY     88.57 310 eP     52 03.00    1.5
      Z 24s     0.54um          4.9MszX
    N 10s     0.33um
SNG     88.87 278 eP     52 06.50    3.1X
PSI     89.20 273 ePd    52 07.90    2.9X
GYA     89.22 298 P      52 07.40    2.4X
INK     89.32  14 eP     52 04.00   -0.4
XAN     89.90 306 eP     52 09.00    1.1
HHC     90.37 313 P      52 11.40    1.4
YKA     90.98  23 eP     52 10.60   -1.5
        1.1s    3.00nm          4.6mb
BTO     91.37 312 eP     52 16.00    1.4
                 eSKS   02 46.00
KMI     92.17 295 Pd     52 21.50    2.8X
        2.0s    70.00nm          5.7mb
FFC     92.78  33 eP     52 19.00   -1.6
        1.2s    14.00nm          5.3mb
KHT     92.94 284 eP     52 23.50    1.4
CD2     93.03 301 eP     52 24.00    1.6
BDT     93.25 287 eP     52 25.00    1.5
LZH     94.50 306 eP     52 29.00   -0.2
        2.0s    40.00nm          5.5mb
CLL    145.13 354 ePKP   58 45.00   -1.1
        2.2s    36.00nm
KSP    145.14 350 ePKP   58 45.00   -1.2
KRA    145.15 346 ePKP   58 45.00   -1.2
                 e      58 57.90
BRG    145.45 353 ePKP   58 51.00    4.3X
                 e      59 24.00
BNS    145.77   0 ePKPd  58 47.80    0.6
        1.0s    26.00nm
NAI    145.87 241 ePKP   58 52.50    3.7X
SPC    145.88 345 ePKP   58 47.20   -0.5
MOX    145.92 355 ePKP   58 48.00    0.5
        1.8s    38.00nm
ENN    145.95   2 ePKP   58 53.50    6.0X
        2.0s    84.00nm
MEM    146.11   1 PKP    58 45.70   -2.1X

SNF    146.14   3 PKPc   58 48.70    0.9
PRU    146.24 352 PKPc   58 49.00    1.0
        1.7s    47.50nm
DOU    146.57   3 PKP    58 50.70    2.1
VRI    146.66 335 ePKP   58 52.00    3.1X
ABH    146.86 360 ePKP   58 48.78   -0.3
GRF    146.90 355 ePKP   58 51.40    2.3
                 e      59 07.60
KHC    147.21 352 iPKPc  58 54.30    4.6X
        1.0s     7.00nm
MLR    147.28 335 ePKP   58 53.00    3.0X
FLN    147.35  10 ePKP   58 49.50   -0.4
        1.3s    21.65nm
      Z 19s     0.22um          5.0Msz
ZST    147.53 348 e(PKP) 58 51.40    1.2
LDF    147.57   9 ePKP   58 50.00   -0.2
GRR    147.65  10 ePKP   58 50.50    0.2
CMP    147.82 336 ePKPd  58 58.00    7.2X
LPF    147.97  11 ePKP   58 51.50    0.7
        1.3s    25.25nm
BBTK   148.01 321 ePKP   58 55.00    3.6X
CDF    148.33   0 ePKP   58 52.50    0.9
HAU    148.73   1 ePKP   58 53.60    1.5
      Z 19s     0.22um          5.0Msz
BSF    148.91   1 ePKP   58 53.90    1.4
KBA    149.25 352 e(PKP) 58 52.00   -1.2
        2.1s    41.20nm
                 i      59 13.60
LOR    149.34   5 ePKP   58 55.30    2.2X
        1.1s    17.10nm
      Z 20s     0.45um          5.3Msz
SSF    149.52   5 ePKP   58 55.70    2.4X
LBF    149.63   4 ePKP   58 55.90    2.3X
AVF    149.77   5 ePKP   58 55.80    2.1X
BEO    149.81 341 ePKP   58 58.50    4.7X
BGF    149.96   6 ePKP   58 56.80    2.8X
        1.3s    21.65nm
SMF    149.96   5 ePKP   58 56.40    2.4X
LJU    150.08 350 ePKP   59 00.00    5.8X
TCF    150.15   7 ePKP   58 57.30    2.9X
VOY    150.20 351 ePKP   58 59.60    5.1X
MAF    150.26   7 ePKP   58 57.40    2.9X
VBY    150.47 349 ePKP   59 00.20    5.4X
TRI    150.53 351 ePKP   59 03.50    8.6X
LPL    151.22   1 ePKP   59 00.90    4.6X
LPG    151.24   1 ePKP   59 01.00    4.6X
SKO    152.00 337 ePKP   59 05.00    7.8X
                 i      59 13.00
                 i      59 23.00
     S.D. = 1.2  on  76 of 123 obs.
-------------------------------------
%  MAR 31, 1991  22h 53m 10.01± 0.75s
   44.453 N ± 6.3km    7.300 E ± 7.9km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                    (545)
      ML 1.4 (GEN).

PZZ      0.15 290 P      53 13.77    0.1
                 S      53 16.02
STV      0.21 175 P      53 14.59    0.0
                 S      53 17.50
ENR      0.24 159 P      53 15.12   -0.1
                 S      53 18.56
BHB      0.39 356 P      53 17.87   -0.1
                 S      53 22.78
ROB      0.44 111 P      53 19.14    0.2
                 S      53 23.89
     S.D. = 0.2  on   5 of   5 obs.
-------------------------------------
*  MAR 31, 1991  22h 54m 23.55± 1.06s
   43.634 N ± 8.3km   19.432 E ±10.2km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                        (383)
      ML 1.7 (TTG).

PLE      0.31 185 iPgc   54 29.00   -1.0
                 iSg    54 35.17
IVA      0.83 156 iPgc   54 39.37   -0.4
                 iSg    54 53.89
NKY      0.88 201 iPgd   54 40.44   -0.1
                 iSg    54 53.62
BRY      0.98 222 iPgc   54 39.90   -2.3
                 iSg    54 54.87
PVY      1.11 159 iPgc   54 45.97    1.5
                 iSg    55 03.95
TTG      1.21 186 iPgd   54 46.39    0.3
                 iSg    55 04.90
```

31d 22h

HCY	1.37	210	iPgc	54	48.90	0.2
			iSg	55	09.82	
BEO	1.40	31	iPg	54	48.30	-0.7
			iSg	55	05.50	
BDV	1.42	198	iPgd	54	50.12	0.7
			iSg	55	12.40	
ULC	1.67	185	iPnd	54	55.44	2.4X
			iSn	55	19.90	
HVAR	2.22	259	iPn	55	02.70	1.7
			iSn	55	29.70	

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

MAR 31, 1991 23h 14m 16.82± 0.41s
44.885 N ± 2.6km 6.776 E ± 4.9km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.5 (LDG), 2.5 (GEN).

RRL	0.04	10	P	14	18.96	-0.1
			S	14	20.19	
BNI	0.18	337	P	14	20.80	-0.2
			eSg	14	23.50	
BHB	0.35	97	P	14	24.39	0.3
			S	14	30.44	
FOUF	0.36	179	ePgd	14	23.48	-0.7
			e(Sg)	14	26.89	
RSP	0.43	52	P	14	26.85	1.2
			S	14	33.62	
PZZ	0.45	148	P	14	25.42	-0.5
			S	14	32.29	
DOI	0.51	139	P	14	26.80	-0.3
			eSg	14	33.90	
LPG	0.61	358	Pg	14	29.00	-0.4
			Sg	14	37.80	
LPL	0.63	357	Pg	14	29.20	-0.5
			Sg	14	38.60	
LSD	0.63	25	P	14	29.73	0.0
			S	14	38.44	
STV	0.75	148	P	14	31.47	-0.1
			S	14	41.11	
ENR	0.80	145	P	14	31.57	-0.9
			S	14	42.65	
ROB	0.98	127	P	14	35.57	0.1
			S	14	48.84	
SBF	1.13	155	Pg	14	38.60	0.6
			Sg	14	54.00	
FIN	1.23	123	P	14	39.08	-0.6
			S	14	54.54	
FRF	1.33	184	Pg	14	41.60	0.3
			Sg	14	59.00	
LRG	1.46	192	Pg	14	43.60	0.4
			Sg	15	03.60	
LMR	1.56	187	Pg	14	46.00	1.3
			Sg	15	06.20	

S.D. = 0.7 on 18 of 18 obs.

MAR 31, 1991 23h 19m 26.98± 0.35s
19.514 N ± 6.4km 38.731 E ± 4.6km
DEPTH = 10.0km (geophysicist)
4.6mb (26 obs.)
RED SEA (554)

ABHA	4.01	108	ePc	20	23.30	-6.7X
SRAT	4.45	109	eP	20	36.70	0.4
			eS	21	24.00	
DHJN	4.88	111	eP	20	42.70	0.3
WAJH	6.92	344	ePc	21	10.30	-0.7
AAE	10.42	180	eP	22	03.70	3.8X
KER	16.55	25	eP	23	22.00	1.2
TAB	19.63	18	eP	24	02.00	3.1X
BBTK	20.90	347	eP	24	14.00	1.9
MLR	27.99	341	eP	25	22.00	2.0
SPC	33.12	338	eP	26	05.80	0.3
ZST	33.54	333	eP	26	09.30	0.4
KRA	33.96	338	eP	26	12.30	-0.2
			e	26	16.80	
KHC	35.79	331	P	26	28.40	0.2
KSP	35.95	336	eP	26	29.80	0.2
LMR	35.97	319	eP	26	29.60	-0.2
	1.0s		14.00nm			4.8mb
FRF	36.00	319	eP	26	30.10	0.0
	0.9s		14.75nm			4.9mb
BRG	36.92	334	iP	26	37.10	-0.6
	1.2s		22.00nm			4.8mb
LPG	36.99	322	eP	26	37.90	-0.8
LPL	37.01	322	eP	26	38.10	-0.7
GRF	37.27	330	eP	26	40.80	0.2
CLL	37.64	334	eP	26	43.00	-0.7
MOX	37.76	332	eP	26	45.00	0.2
HYB	37.77	87	eP	26	45.00	-0.3
BSF	38.31	325	eP	26	49.10	-0.4
	1.0s		12.00nm			4.6mb
SMF	39.31	322	eP	26	57.10	-0.7
	0.9s		4.90nm			4.2mb
LBF	39.41	322	eP	26	58.20	-0.5
	0.9s		19.65nm			4.8mb
CAF	39.54	318	eP	27	00.10	0.3
	1.0s		12.00nm			4.5mb
LOR	39.63	322	eP	27	00.10	-0.4
	0.9s		15.55nm			4.7mb
AVF	39.67	321	eP	27	00.30	-0.5
	0.9s		8.20nm			4.4mb
SSF	39.72	322	eP	27	00.80	-0.4
	0.9s		9.00nm			4.4mb
MAF	39.85	320	eP	27	02.40	0.1
	0.9s		9.85nm			4.5mb
BGF	39.85	321	eP	27	02.50	0.2
	0.9s		29.50nm			5.0mb
LPO	39.98	317	eP	27	03.90	0.5
	0.9s		9.85nm			4.5mb
RJF	40.06	318	eP	27	04.50	0.5
	1.1s		14.65nm			4.6mb
TCF	40.10	320	eP	27	04.50	0.1
LFF	40.38	318	eP	27	07.40	0.7
	0.9s		13.10nm			4.6mb
MEM	40.40	328	Pc	27	07.50	0.8
LSF	40.50	320	eP	27	08.00	0.4
	1.0s		13.00nm			4.6mb
DOU	40.81	326	Pc	27	10.40	0.3
SNF	41.22	327	P	27	13.70	0.3
MFF	41.68	319	eP	27	17.10	-0.2
	0.9s		6.55nm			4.4mb
TOL	41.86	308	eP	27	20.50	1.6
LDF	42.61	322	eP	27	24.20	-0.7
	0.9s		13.10nm			4.7mb
LPF	42.88	321	eP	27	26.30	-0.8
	0.9s		14.75nm			4.7mb
FLN	42.90	322	eP	27	26.40	-0.9
	0.9s		19.65nm			4.8mb
GRR	42.94	321	eP	27	26.70	-0.9
	1.0s		11.00nm			4.5mb
KKN	43.22	70	P	27	29.80	-0.7
LKO	43.92	263	P	27	36.54	0.5
KIC	44.20	259	Pc	27	38.52	0.3
	1.0s		11.00nm			4.7mb
LIC	44.51	259	P	27	41.10	0.3
NB2	45.80	342	P	27	49.20	-1.3
	1.0s		5.80nm			4.5mb
EKA	47.64	329	P	28	05.00	-0.1
	1.3s		17.30nm			5.0mb
LZH	58.92	59	eP	29	28.00	-1.1
	1.5s		28.00nm			5.2mb
FRB	80.05	334	eP	31	38.00	0.0
MBC	83.52	355	eP	31	56.50	0.6
INK	92.25	357	eP	32	38.00	0.0
YKA	95.58	348	eP	32	52.80	-0.8
	0.9s		1.00nm			4.3mb

S.D. = 0.7 on 54 of 57 obs.

MAR 31, 1991 23h 40m 57.71± 1.00s
6.359 S ± 8.1km 148.609 E ± 8.6km
DEPTH = 76.0 ± 10.6 km
4.9mb (6 obs.)
NEW BRITAIN REGION (192)

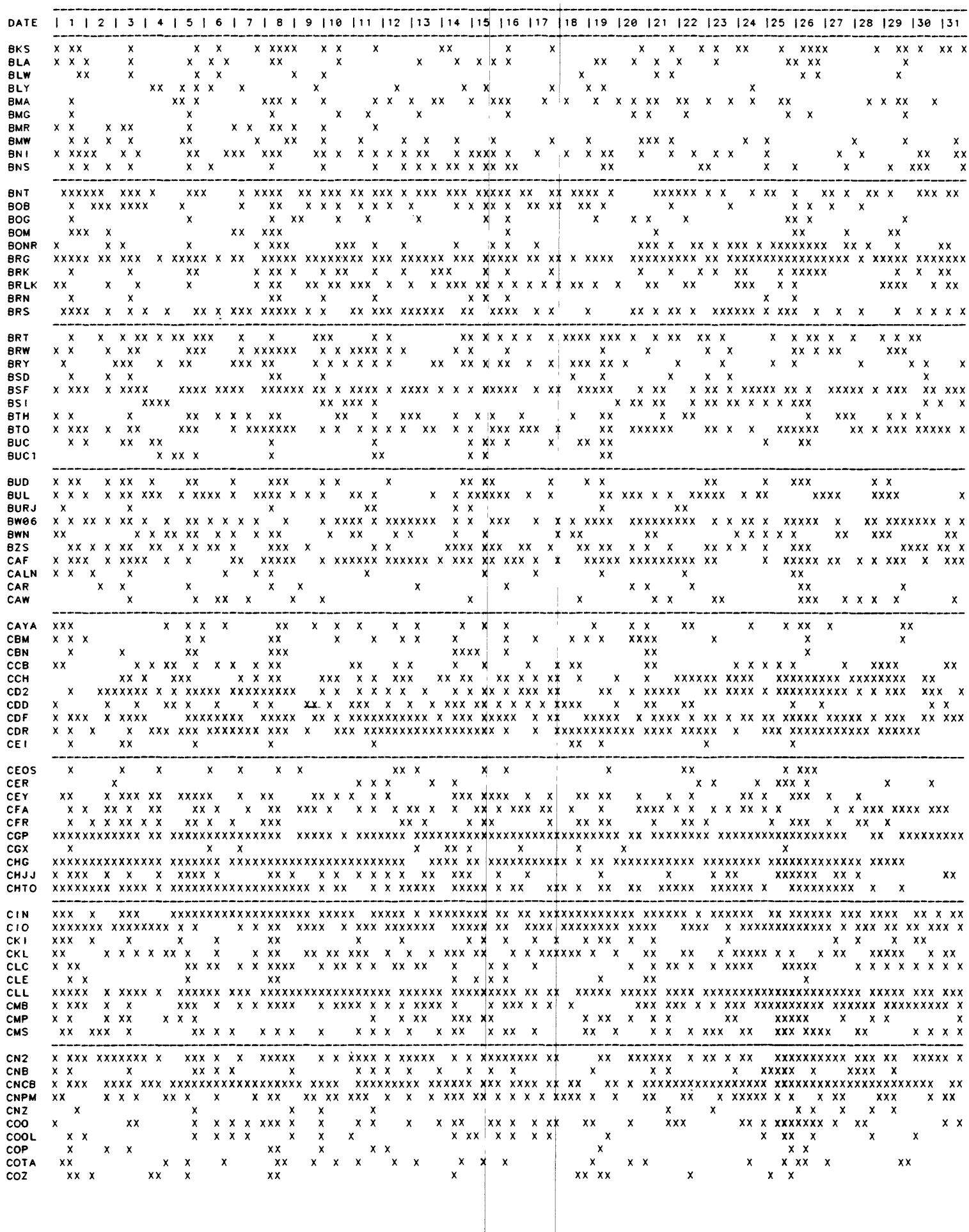
YYYY	2.63	272	eP	41	41.00	2.1
PMG	3.36	205	iPc	41	47.50	-1.4
RAB	4.15	59	iPd	41	58.90	-1.1
			iS	42	48.00	
MNDI	4.93	272	eP	42	12.20	1.1
CTA	13.84	189	iPc	44	12.20	0.4
	1.7s		84.62nm			4.9mb
OIS	16.60	211	ePc	44	46.30	-0.8
	1.0s		63.00nm			4.8mb
			i	44	58.00	
MTN	18.39	248	eP	45	07.30	-1.9
WB2	19.34	224	iPc	45	18.30	-1.7
	0.4s		56.70nm			5.2mb
			eS	48	47.80	
RMQ	20.02	180	iPc	45	27.00	0.0
	1.0s		88.00nm			5.0mb
			e	46	55.00	
QLP	20.54	191	iPd	45	35.10	2.8X
BRS	21.29	170	iPc	45	41.00	1.1
ASPA	22.28	218	iPc	45	50.50	0.7
	1.3s		86.40nm			5.0mb
Z	19s		1.60um			4.5Msz
			eS	49	54.70	
DZM	23.25	134	iPc	46	00.60	1.2
KUPT	25.02	260	eP	46	10.00	-6.3X
CMS	25.13	186	eP	46	18.00	0.8
MBL	31.50	239	iPd	47	25.70	11.0X
MEKA	35.01	231	eP	47	45.00	-0.1
MAT	43.77	348	eP	48	56.00	-1.5
			eS	55	24.00	
INK	91.40	21	eP	53	56.50	0.4
YKA	98.74	28	eP	54	30.80	1.1
	0.8s		1.00nm			4.4mb
BUL	115.42	244	iPKPc	59	33.50	0.0
	0.9s		5.04nm			
CNCB	137.12	123	PKP	00	07.00	-8.5X
			e	00	18.00	
LPB	137.15	123	ePKP	00	21.00	5.6X
SIV	143.17	127	PKP	00	22.80	-2.9X
PPD	145.69	146	ePKP	00	32.00	2.1X
			e	00	43.60	
VAO	147.08	153	ePKP	00	34.80	2.6X
			e	00	47.10	
BMA	148.54	157	(PKP)	00	34.00	-0.5
KIC	153.51	271	PKP	00	51.10	9.1X
LIC	153.80	271	PKP	00	51.60	9.2X
LKO	154.25	279	PKP	00	51.86	8.8X

S.D. = 1.3 on 19 of 30 obs.

STATION DATA REPORT FOR MARCH, 1991

1437 stations reported 65488 reoding orrivol groups

X = dato received for this 6-haur time period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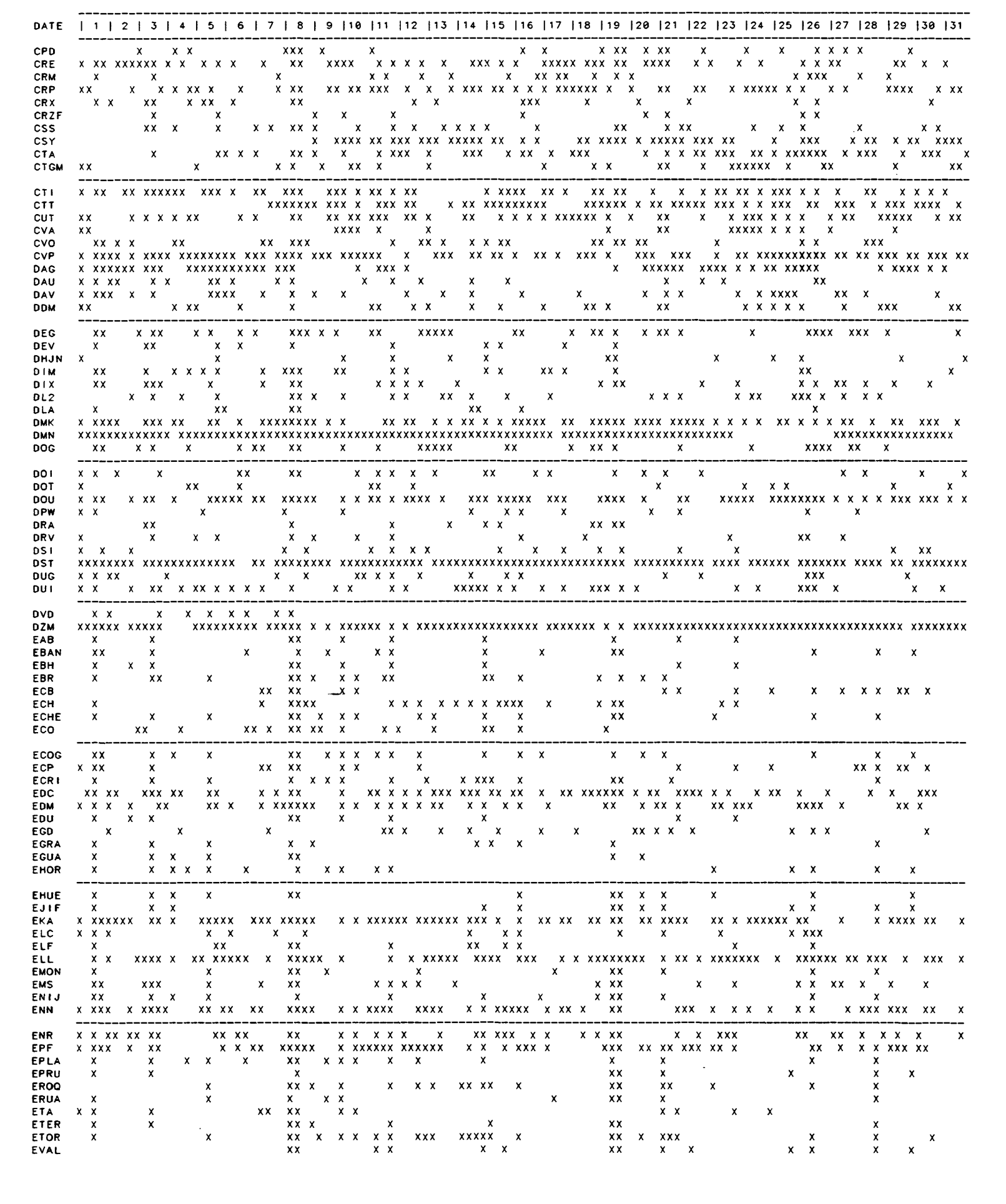
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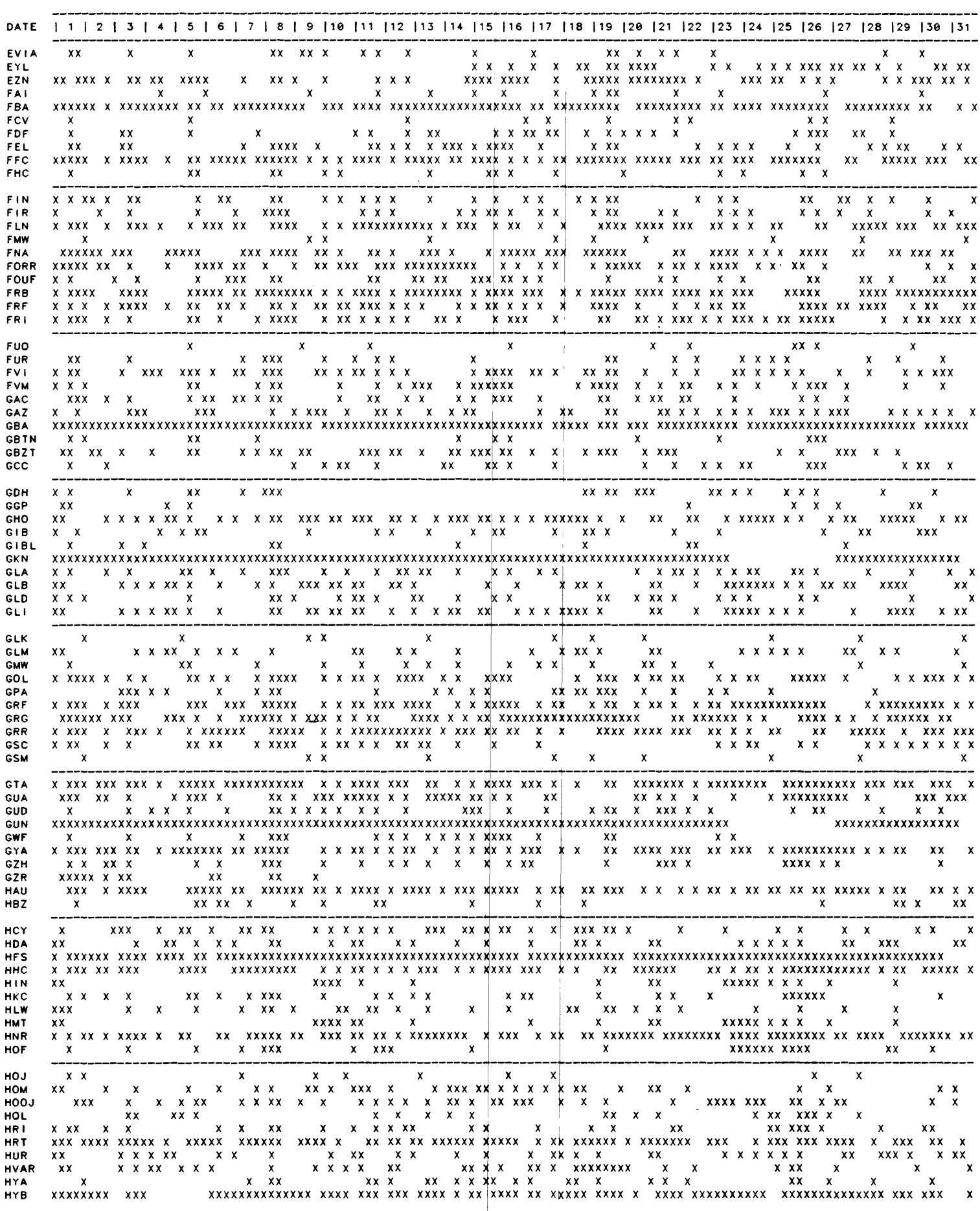
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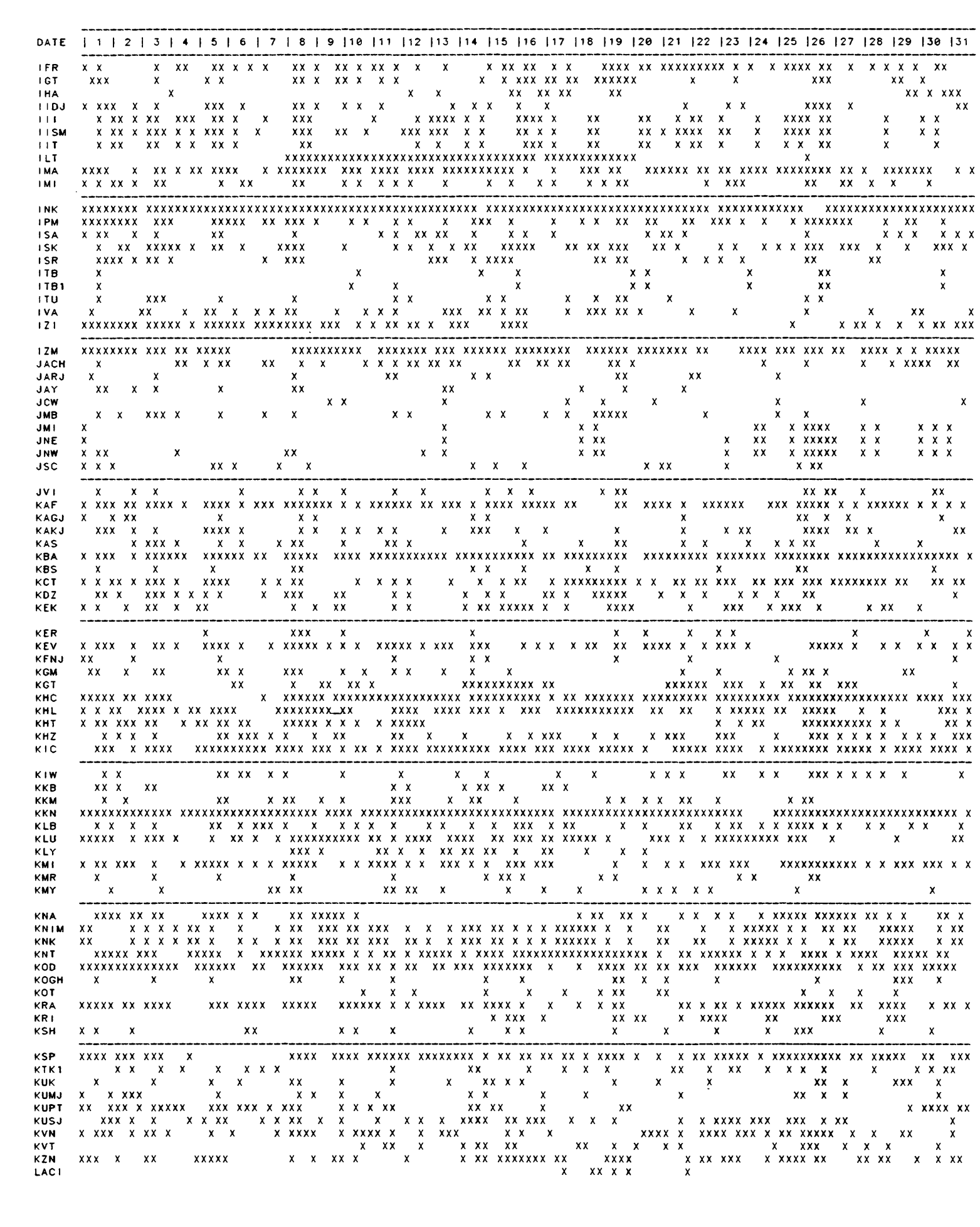
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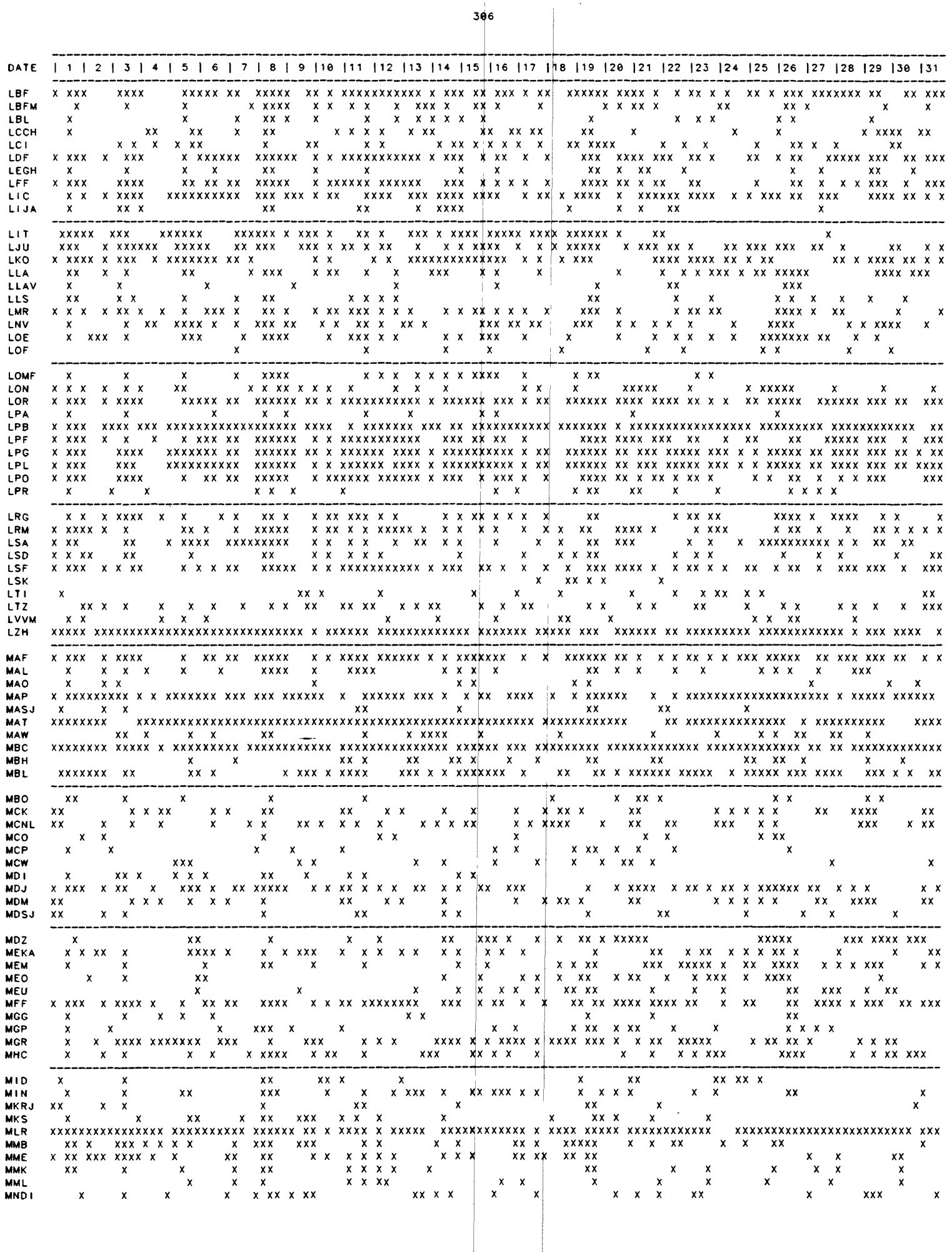
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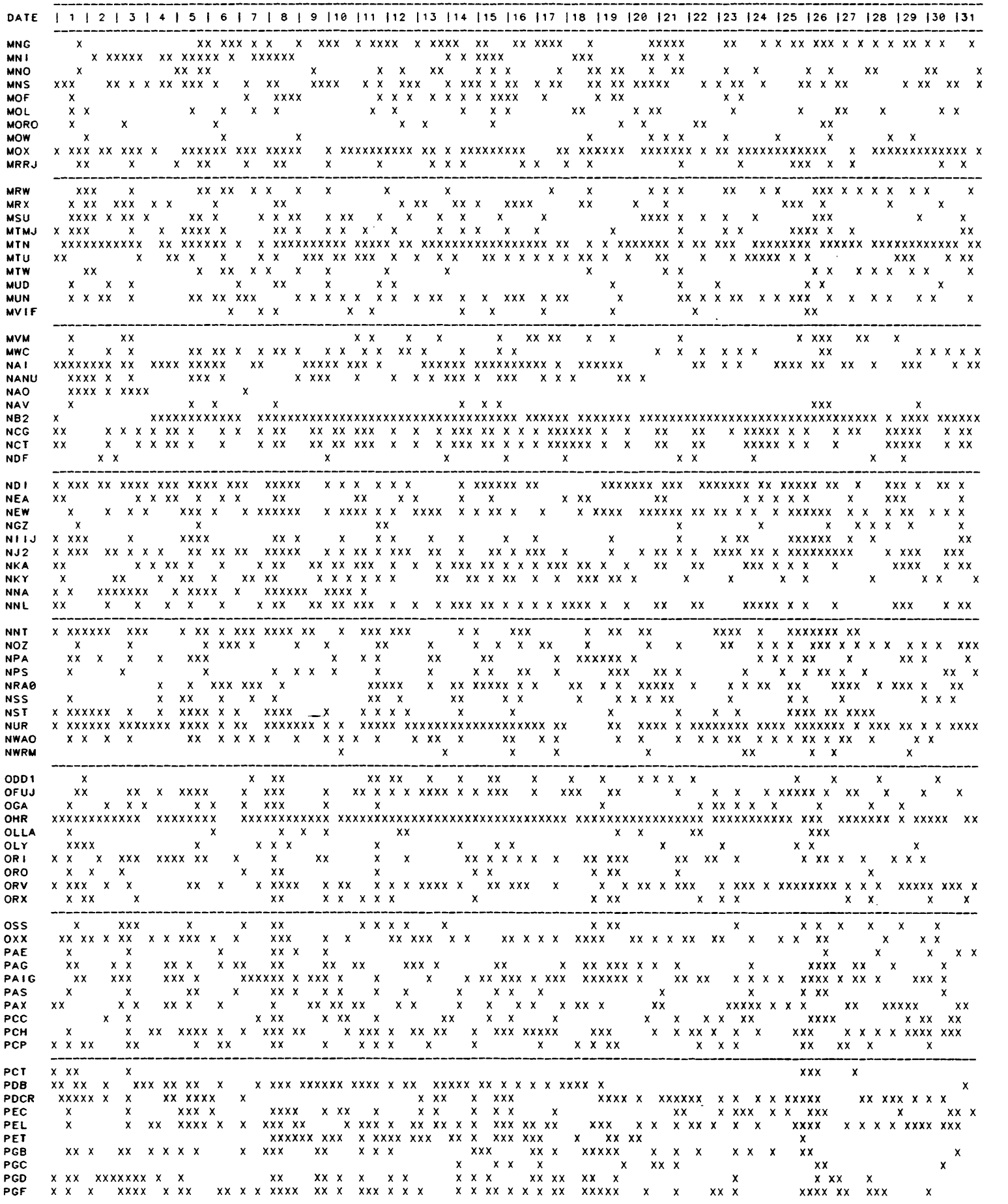
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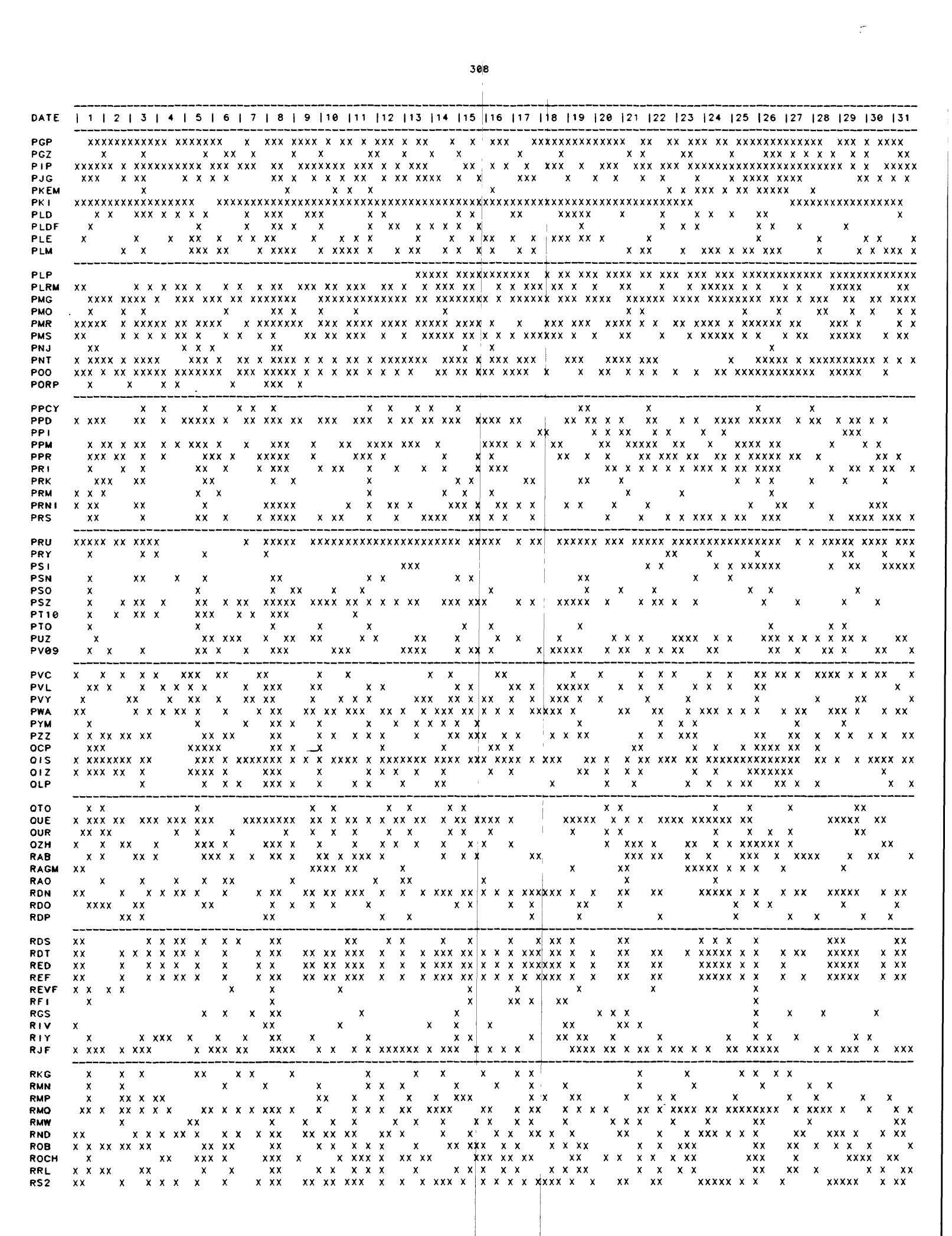
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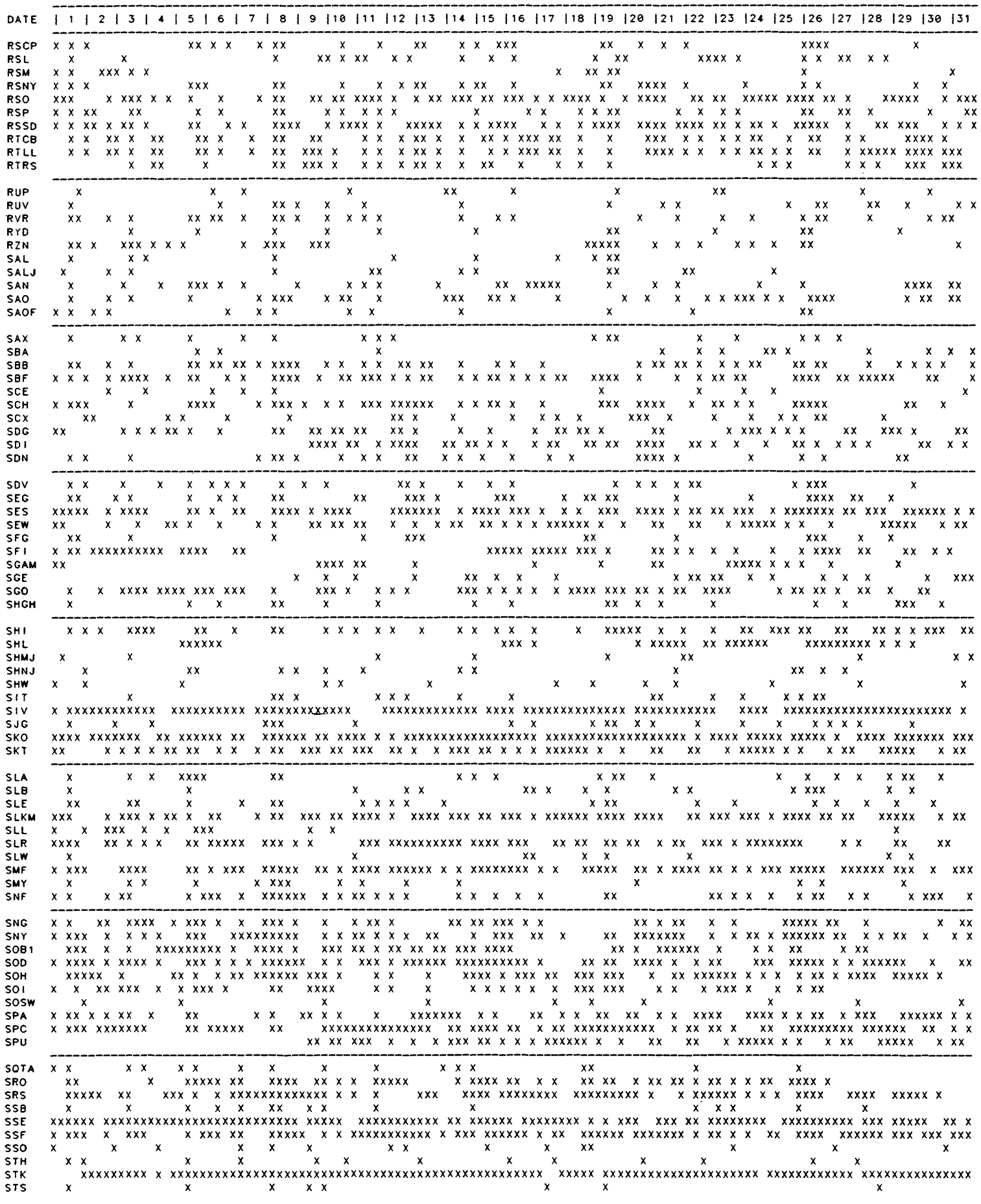
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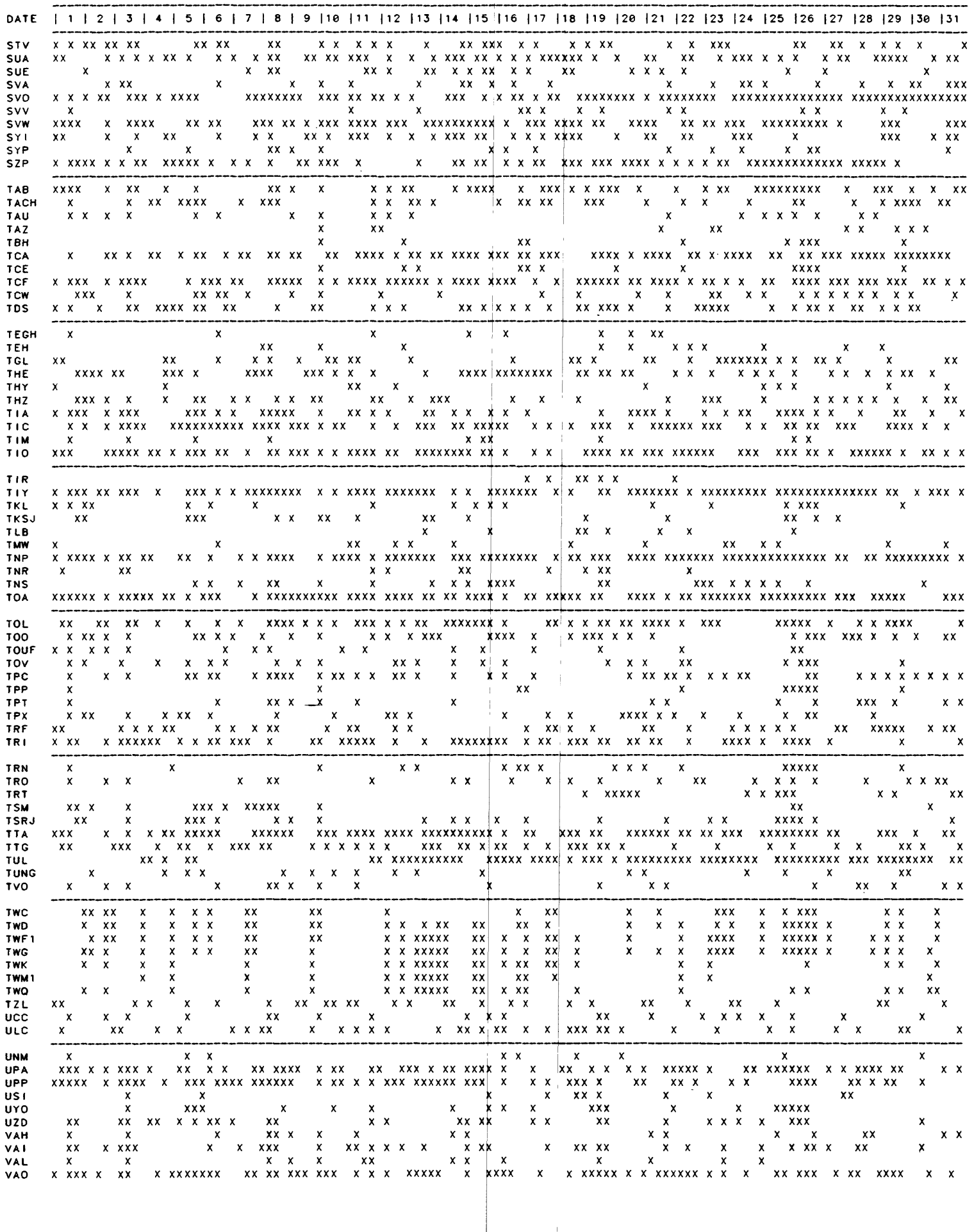
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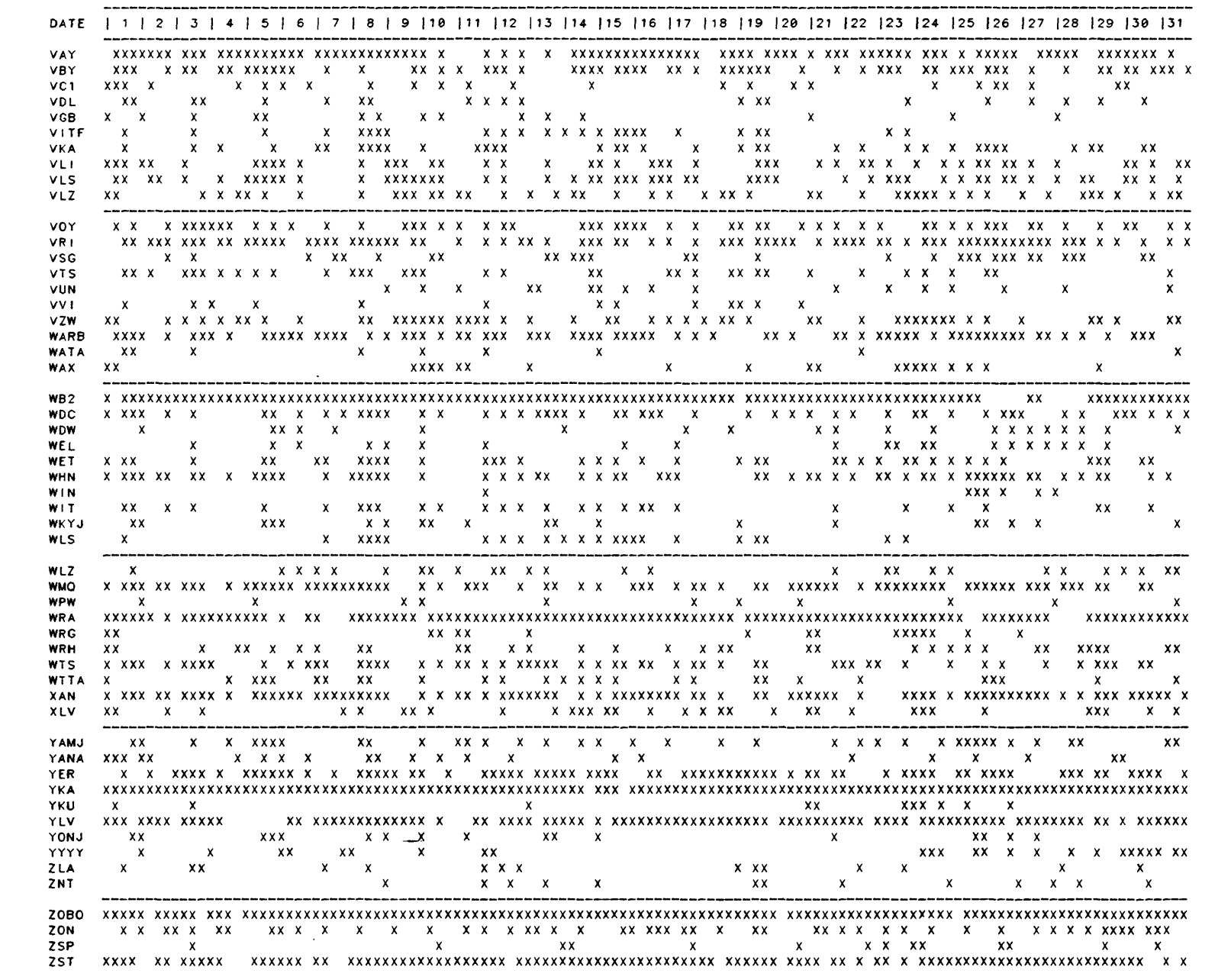

The following stations each reported less than 10 readings:

ABHA	ABN	ACTN	ADH	AFR	AGAL	AGMR	AGRW	AHA	AIN	AKRL	AKSR	ALB	ALJ	ANCC	APA	APE	APKW
APM	APW	AQBJ	ARG	ARO	ATE	ATZ	BBB	BBU	BCI	BCPM	BDF	BDNM	BEE	BER	BERF	BGB	BGMT
BIX	BKB2	BKR	BLE	BLH	BLN	BLO	BLP	BLT	BMNM	BMTN	BNH	BNM	BOH	BOT	BPA	BPIL	BRL
BRVW	BST	BTB	BUGC	BUT	BVA	BVW	CALA	CAO	CBB	CBD	CBP	CBSW	CBX	CCM	CCU	CCW	CDFW
CDH1	CDM	CFTV	CGLM	CHIE	CIS	CKO	CLMC	CNIL	CNV	COL	COR	CPB	CPBX	CPE	CPH	CPK	CPW
CRF	CRNM	CROR	CSI	CSIL	CSTJ	CTAO	CTCR	CTFE	CUMC	CUSS	CVL	CVT	CVVD	CZI	CZM	DAF	DAH
DAQ	DBCT	DBN	DBO	DES	DHH	DHLJ	DHR	DHW2	DIAC	DLM	DPMT	DPO	DSH	DSVT	DWM	EALH	EAU
EBG	EBL	ECBX	ECD	EDB	EDI	EDR	EEO	EKR	ELK	ELO	ELYF	EMEL	EMM	EMX	ENX	EPA	EPH
ERC	ERK	ESCF	ESD	ESEL	ESK	ESR	ESY	ET3	ETB	ETW	EZAM	FAM	FL2	FOO	FOX	FRO	FRS
FRU	FRV	FSB	FUG	FYU	GBL	GBR	GCG	GDR	GELF	GGC	GGN	GHV	GHW	GHZJ	GL2	GLH	GLR
GMB	GMN	GMR	GMTN	GOIL	GRC1	GRC2	GRC3	GRI	GRN	GRQ	GRW	GSH	GT2	GUAC	GUAN	GULW	GVN
HATI	HATZ	HBF	HBH	HBMT	HBVT	HCK	HCR	HDC2	HDW	HIA	HIL	HITJ	HITZ	HLD	HLP	HMH	HOBC
HON	HOOC	HOR	HPI	HPU	HON	HRV	HRY	HSHJ	HSO	HSR	HTC	HTW	HUG	HUH	HUL	IAS	IGL
IIA	IKP	IMU	IRK	IRZ2	ISSF	ITB7	ITM	JAQ	JAT	JAU	JBO	JFO	JHP	JLK	JRDJ	JRSJ	JTS
JUD	KAE	KBN	KBR	KETZ	KFH	KHU	KIH	KIR	KKS	KKU	KLL	KLM	KLN	KMOR	KMTA	KMZ	KNH
KOE	KOH	KONO	KOSW	KPO	KRNA	KRO	KSR	KSU	KUG	KUH	LAZ	LCH	LDMO	LDN	LER	LFU	LHE
LISJ	LMW	LMX	LNOR	LOCW	LOP	LPD	LPM	LRS	LSM	LST	LSZ	LTCM	LTMT	LVNJ	LVP	LWI	MADF
MAJO	MBU	MBW	MCMT	MCT	MCY	MDN	MDW	MEMT	MEW	MEX	MFTN	MGB	MGH	MGM	MHZ	MIM	MJ2
MKA	MKL	MKT	MLH	MLS	MLX	MMCZ	MNK	MNQ	MOH	MOTA	MPA	MQZ	MRL	MSI	MSZ	MTD	MTI
MTMW	MTUR	MVH	MWH	MXC	MZP	MZX	NA12	NA2	NAC	NAH	NAOJ	NDE	NGH	NHIL	NLO	NLW	NMMO
NPH	NPN	NRI	NRMS	OBC	OBN	OBO	OCM	OD2	OFK	OGE	OGTN	OHTN	OHW	ONR	OOW	OPA	OSD
OSP	OT2	OTR	OTT	OUR	OUT	OVA	OZB	PAF	PALR	PATW	PBC	PBV	PBX	PCF	PCJ	PDA	PEM
PFB	PGA	PGO	PGW	PHC	PHP	PICO	PIG	PKL	PLAT	PLAV	PLL	PNL	POA2	POF	POH	PPH	PPK
PPL	PPN	PPT	PRAF	PRN	PRW	PTCR	PTI	PTJ	PTS	PTT	PTZ	PUE	PUH	PUL	PURC	PUYF	PWH
PWLA	PZI	QCS	QPS	QTFJ	QTRJ	QUIL	QZA	QZG	RAC	RAR	RATZ	RBA	RC1	REMR	REY	RIM	RKT

ROI	ROSA	RPW	RS1	RSW	RUWJ	RVC	RVW	SALC	SAP	SAW	SBG	SBQ	SCI	SCM	SCP	SCY	SDH
SEA	SEK	SGH	SGS	SGV	SHB	SHBJ	SHK	SHRG	SHWJ	SILC	SIM	SJAS	SKI	SKR	SLP	SML	SMMM
SMW	SNZO	SOA	SOG2	SONG	SPJ	SPRG	SPT	SPW	SPX	SRAT	SRE	SRG	SRN	SSP	STB	STD	STR
STU	STW	SURF	SVB	SVP	SWH	SWO	SXM	SZO	TATO	TAVF	TBI	TBM	TBR	TBT	TDD	TDL	TER
THI	TIG	TIH	TIK	TLC	TMBR	TME	TOD	TPE	TPR	TPU	TREF	TRH	TRO	TSI	TTH	TUH	TWW
TWZ	TXNY	UAV	UTU	UWE	UZH	VBEM	VFP	VILF	VIPM	VLL	VLMM	VLO	VNDA	VNM	VPD	VSS	VTG
VTHM	VTU	WAH2	WAJH	WBO	WEO	WG3	WGAR	WHA	WHH	WIH	WIW	WKH	WLF	WOB	WOH	WRD	WTV
WTX	WVLY	YAH	YAKW	YHJ	YMT1	YMT2	YMT3	YMT4	YMT5	YSS	YUP						