

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PRELIMINARY DETERMINATION OF EPICENTERS
MONTHLY LISTING

JULY - SEPTEMBER 1991

NATIONAL EARTHQUAKE INFORMATION CENTER

Open File Report

91-600-C



This report is preliminary and has not been reviewed for
conformity with U.S. Geological Survey editorial standards.

1991



PRELIMINARY DETERMINATION OF EPICENTERS

MONTHLY LISTING

U.S. DEPARTMENT OF THE INTERIOR / GEOLOGICAL SURVEY National Earthquake Information Center

JULY 1991

K E Y	DAY	ORIGIN TIME UTC HR MN SEC	GEOGRAPHIC COORDINATES LAT LONG	DEPTH	MAGNITUDES GS MB Msz	SD	NO. STA USED	REGION. CONTRIBUTED MAGNITUDES AND COMMENTS
	01	00 27 54.8*	39.445 N 23.482 E	5 G			1.5	5 AEGEAN SEA. MD 2.5 (THE).
	01	01 29 07.6	43.716 N 127.724 W	10 G	3.4		0.8	64 OFF COAST OF OREGON
	01	01 58 55.3?	36.98 N 29.41 E	10 G			0.8	4 TURKEY. MD 3.3 (ISK).
	01	02 03 04.5*	43.604 N 12.892 E	10 G			1.0	7 CENTRAL ITALY
	01	02 05 14.6*	16.586 S 167.167 E	33 N	4.0		1.0	17 VANUATU ISLANDS
	01	02 26 26.7	37.880 N 139.575 E	10 G	4.1		1.1	12 HDNSHU, JAPAN
	01	02 27 19.2?	41.83 N 22.88 E	10 G			0.3	6 YUGOSLAVIA. MD 2.5 (THE).
	01	02 53 39.5?	33.71 S 67.78 W	33 N			0.7	7 MENDOZA PROVINCE, ARGENTINA. Felt (IV) in the La Paz area.
	01	03 37 49.5*	45.666 N 4.882 E	10 G			1.4	10 FRANCE. ML 2.8 (LDG).
	01	04 23 14.2*	3.944 N 82.183 W	10 G	4.4 3.9		0.6	15 SOUTH OF PANAMA
	01	04 56 28.7*	21.341 N 94.105 E	85 ?	4.2		0.5	11 BURMA
	01	05 21 51.8	14.956 N 120.313 E	26 *	4.6 3.8		1.3	23 LUZON, PHILIPPINE ISLANDS
	01	06 18 06.1	24.941 N 99.029 E	19 D	4.6		1.3	48 YUNNAN PROVINCE, CHINA
	01	07 01 11.7	10.372 S 124.020 E	24 D	5.1		1.3	43 TIMOR
	01	08 35 07.9?	42.38 N 129.17 W	10 G			0.3	37 OFF COAST OF OREGON
	01	08 38 00.5?	42.95 N 128.33 W	10 G			0.4	43 OFF COAST OF OREGON
	01	09 47 18.1*	29.671 N 60.442 E	33 N	4.4		1.4	14 SOUTHERN IRAN
	01	10 06 49.8*	37.085 N 29.560 E	10 G			0.6	7 TURKEY. MD 3.6 (ISK).
	01	11 09 55.8?	41.89 N 22.83 E	10 G			0.3	5 YUGOSLAVIA. ML 1.9 (SKO).
	01	11 28 29.4	55.848 N 153.044 W	33 N	4.0		0.8	46 SOUTH OF ALASKA. ML 4.3 (PMR), 4.2 (AEIC).
	01	12 29 58.4?	37.04 N 29.56 E	10 G			0.4	4 TURKEY. MD 3.2 (ISK).
	01	12 54 41.8*	20.523 S 178.441 W	600 ?	4.9		1.0	46 FIJI ISLANDS REGION
	01	13 16 45.2?	42.28 N 129.33 W	10 G			0.3	26 OFF COAST OF OREGON
	01	13 28 13.3*	58.163 N 142.771 W	10 G	3.3		32	32 GULF OF ALASKA. <AEIC>. ML 2.8 (AEIC).
a	01	13 32 41.6	15.797 S 75.016 W	21 *	5.4 5.9		1.1	159 NEAR COAST OF PERU. Ms 5.6 (BRK). Mo=1.6*10**18 Nm (PPT). Felt (III) in the Marcona area.
	01	13 42 24.0*	52.689 N 160.095 E	33 N	4.7		1.1	33 OFF EAST COAST OF KAMCHATKA
	01	14 15 30.6*	54.782 S 158.389 E	33 N	4.5		1.4	11 MACQUARIE ISLANDS REGION
	01	14 42 31.7?	11.24 N 139.15 E	33 N	4.4		0.3	6 WEST CAROLINE ISLANDS
	01	14 46 19.0*	58.542 N 152.296 W	8			26	26 KODIAK ISLANDS REGION. <AEIC>. ML 2.6 (AEIC).
	01	16 41 36.6?	29.91 S 178.76 W	424 ?	4.7		0.9	15 KERMADEC ISLANDS
	01	18 08 17.2*	39.759 N 16.489 E	10 G			0.3	7 SOUTHERN ITALY
	01	18 36 59.4?	40.32 N 27.77 E	10 G			0.2	4 TURKEY. MD 2.4 (ISK).
	01	19 08 46.0?	21.07 S 68.66 W	33 N			1.0	4 CHILE-BOLIVIA BORDER REGION
	01	19 21 32.8*	46.386 N 4.474 E	10 G			1.3	11 FRANCE. ML 2.8 (LDG).
	01	19 43 18.7?	45.94 N 4.85 E	10 G			0.5	5 FRANCE. ML 1.8 (LDG).
	01	20 06 36.3*	37.065 N 29.580 E	10 G			0.8	5 TURKEY. MD 3.4 (ISK).
	01	20 18 49.8*	10.355 N 125.061 E	10 G	4.8 4.1		1.2	18 LEYTE, PHILIPPINE ISLANDS
	01	22 22 48.9	34.371 N 27.476 E	10 G	4.1		1.2	54 EASTERN MEDITERRANEAN SEA. ML 4.4 (CSS). MD 4.0 (HLW), 4.0 (ATH).
	01	22 55 45.9	6.525 S 154.936 E	99 *	5.0		0.9	29 SOLOMON ISLANDS
	02	00 25 52.6?	55.34 S 26.91 W	33 N	4.9		0.8	8 SOUTH SANDWICH ISLANDS REGION
	02	00 46 12.2?	39.50 N 19.64 E	10 G			1.2	6 GREECE-ALBANIA BORDER REGION
	02	01 06 53.4*	45.057 N 13.486 E	10 G			1.2	6 NORTHERN ITALY. ML 2.8 (KBA). MD 2.4 (TRI).
	02	01 20 23.9*	41.713 N 22.861 E	10 G			0.3	7 YUGOSLAVIA. ML 1.9 (SKO). MD 2.7 (THE).
	02	02 14 41.9?	37.62 N 21.50 E	10 G	3.6		1.0	10 SOUTHERN GREECE
	02	03 49 01.7*	37.490 N 91.710 W	5 G				9 MISSOURI. <SLM>. MD 3.3 (SLM).
	02	03 50 53.9	19.046 S 177.643 W	524	4.9		1.0	67 FIJI ISLANDS REGION
	02	04 16 46.0	28.922 S 67.278 W	145 D	4.7		1.0	51 LA RIOJA PROVINCE, ARGENTINA. Felt (III) at Catamarca.
	02	04 24 28.2	43.135 N 142.091 E	169	4.3		1.2	51 HOKKAIDO, JAPAN REGION
	02	04 29 36.0	49.198 N 6.855 E	10 G			1.5	11 GERMANY. ML 2.7 (STR). MD 2.4 (UCC).
	02	04 38 34.3	12.672 N 88.156 W	187	4.9		1.1	78 OFF COAST OF CENTRAL AMERICA. Felt (II) at San Salvador, El Salvador.
	02	05 05 40.0?	43.85 N 7.09 E	10 G			0.2	5 NEAR SOUTH COAST OF FRANCE. ML 2.0 (GEN).
f	02	05 14 30.1	1.068 S 99.843 E	54 G	5.8 6.1		1.2	372 SOUTHERN SUMATRA. Ms 6.2 (BRK). Mo=3.0*10**18 Nm (PPT). Light damage to many buildings at Padang. Felt at Padangpanjang. Also felt at Singapore. Depth from

02	06 00 05.8	42.940 N	17.816 E	10 G	0.6	10	broodbond displacement seismograms.
02	06 08 09.2	23.233 S	179.126 W	429 D 5.7	1.1	309	ADRIATIC SEA. ML 2.7 (TTG).
02	06 48 52.4?	27.03 S	111.41 E	10 G 4.1	1.3	7	SOUTH OF FIJI ISLANDS. mb 6.2 (BRK).
02	07 04 52.9%	40.415 N	23.334 E	10 G	0.5	6	WEST OF AUSTRALIA
02	07 51 50.2	38.701 N	24.757 E	12	1.1	27	GREECE. MD 1.8 (THE).
02	09 04 26.0?	24.47 N	91.64 E	33 N	0.3	7	AEGEAN SEA. ML 3.2 (ATH). MD 3.3 (THE).
02	09 12 36.9	38.193 N	22.217 E	12 3 8	0.9	25	INDIA-BANGLADESH BORDER REGION
02	10 08 00.0?	61.76 N	3.25 E	10 G	1.0	9	GREECE. ML 3.5 (ATH). MD 3.5 (THE).
02	11 15 04.5	41.759 N	19.632 E	13 3.4	0.7	18	NORWEGIAN SEA. MD 2.2 (BER)
02	11 35 00.5%	58.412 N	142.661 W	10 G		22	ALBANIA. ML 3.0 (TTG). 3.0 (SKO). MD 3.0 (THE)
02	11 40 04.9%	63.254 N	150.777 W	133		63	GULF OF ALASKA. <AEIC>. ML 2.6 (AEIC).
02	11 49 12.7%	61.372 N	152.081 W	114		49	CENTRAL ALASKA. <AEIC>.
02	11 57 07.8%	63.147 N	150.464 W	115		36	SOUTHERN ALASKA. <AEIC>.
02	12 40 08.7%	44.605 N	6.897 E	10 G	0.3	6	CENTRAL ALASKA. <AEIC>.
02	12 42 11.2	44.647 N	6.980 E	10 G	0.5	26	FRANCE. ML 2.1 (GEN).
02	12 57 19.7%	39.079 N	27.710 E	10 G	0.4	5	FRANCE. ML 2.6 (LDG). 2.6 (GEN).
02	13 16 21.0%	42.709 N	19.187 E	10 G	0.5	9	TURKEY. MD 2.7 (ISK).
02	13 34 21.1+	38.856 N	32.740 E	10 G	0.3	8	YUGOSLAVIA. ML 1.6 (TTG)
02	13 39 07.2	7.709 S	81.308 W	33 N 5.1 4.2	0.8	67	TURKEY
02	14 04 37.0	10.276 N	93.657 E	29 D 4.7	1.4	48	OFF COAST OF NORTHERN PERU
02	15 13 57.2%	60.672 N	149.859 W	43 3.7		74	ANDAMAN ISLANDS REGION
							KENAI PENINSULA, ALASKA. <AEIC>. ML 4.1 (AEIC). 4.2 (PMR). Felt (III) at Anchorage, Eagle River, Hope, Seward and Soldotna.
02	16 08 00.0?	46.30 N	15.00 E	10 G	0.5	4	YUGOSLAVIA. MD 2.5 (LJU).
02	17 16 48.7	45.789 N	26.706 E	119 3.7	1.0	31	ROMANIA
02	18 22 01.9%	63.180 N	150.405 W	125		39	CENTRAL ALASKA. <AEIC>.
02	18 29 44.8+	23.325 N	93.362 E	33 N	0.6	7	BURMA-INDIA BORDER REGION
02	19 14 15.2?	56.09 S	142.28 W	10 G 5.0	1.5	6	SOUTH PACIFIC CORDILLERA
02	19 54 29.4	11.211 N	85.671 W	31 D 4.8 5.0	0.9	103	NICARAGUA. Felt in northwestern Costa Rico.
o 02	20 20 48.5	11.199 N	85.666 W	33 N 4.7 4.9	1.0	67	NICARAGUA. Ms 4.6 (BRK). Felt in northwestern Costa Rico.
02	21 05 39.2?	48.78 N	6.88 E	10 G	1.5	5	FRANCE. MD 2.3 (UCC).
02	21 20 09.9	44.997 N	6.708 E	10 G	0.7	23	FRANCE. ML 2.5 (LDG). 2.6 (GEN).
o 02	21 24 03.8	72.961 N	12.309 E	10 G 5.4 4.7	0.9	289	NORWEGIAN SEA
o 02	21 56 40.8	5.125 S	153.630 E	57 D 5.3	0.9	88	NEW IRELAND REGION
02	23 00 11.0%	37.320 N	121.677 W	6		8	CENTRAL CALIFORNIA. <BRK>. ML 2.0 (BRK).
02	23 31 58.5	32.110 N	85.101 E	17 D 4.7 4.5	1.2	55	TIBET
02	23 38 07.9	38.852 N	32.712 E	10 G	0.6	11	TURKEY
03	01 36 14.1	19.397 S	69.510 W	138 + 4.3	0.9	16	NORTHERN CHILE
03	01 48 25.6+	31.066 S	64.770 W	33 N	0.5	8	CORDOBA PROVINCE, ARGENTINA. Felt (IV) at Cordoba. Felt throughout the Punilla Valley from Villa Carlos Paz to Cruz del Eje
03	02 23 43.3%	40.592 N	22.905 E	10 G	0.6	5	GREECE. MD 1.8 (THE).
03	02 25 45.2?	44.98 N	3.18 E	10 G	0.7	4	FRANCE. ML 1.9 (LDG).
03	02 30 32.2	40.600 N	23.040 E	10 G	1.0	8	GREECE. MD 2.5 (THE).
03	03 13 19.3?	37.74 N	142.07 E	68 ? 4.2	1.4	8	OFF EAST COAST OF HONSHU, JAPAN
03	03 31 37.5%	40.655 N	23.064 E	10 G	0.8	5	GREECE. MD 1.5 (THE).
03	03 49 46.4	15.270 N	120.521 E	26 D 4.7 4.5	1.4	44	LUZON, PHILIPPINE ISLANDS. Felt at San Fernando and Manila.
03	05 03 27.4?	1.21 S	79.14 W	10 G	0.9	8	ECUADOR
03	05 27 34.4%	61.568 N	149.794 W	35		77	SOUTHERN ALASKA. <AEIC>. ML 3.7 (AEIC). 3.6 (PMR). Felt (III) at Anchorage and Chugiak. Felt (II) at Palmer.
03	06 08 53.4	11.194 N	85.707 W	28 D 4.8 4.5	0.9	96	NICARAGUA. Felt in Costa Rico.
03	06 51 59.8%	62.121 N	151.576 W	94		50	CENTRAL ALASKA. <AEIC>. Felt (III) at Skwentno.
03	07 47 40.0	1.130 N	30.238 W	10 G 4.7 4.2	0.6	25	CENTRAL MID-ATLANTIC RIDGE
03	07 53 06.3%	65.704 N	148.890 W	32		27	ALASKA. <AEIC>. ML 3.0 (AEIC).
03	08 16 38.0+	51.296 N	15.926 E	10 G	0.5	6	POLAND
03	08 47 10.3	47.488 N	5.444 E	10 G	1.0	14	FRANCE. ML 3.4 (STR).
03	08 59 33.3	12.823 N	90.689 W	38 + 4.8 3.6	1.2	42	OFF COAST OF CENTRAL AMERICA
03	09 14 04.8%	37.628 N	118.942 W	6		27	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.7 (BRK). Felt (IV) at Mammoth Lakes, California.
03	09 15 54.4%	37.630 N	118.935 W	8		17	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.4 (BRK).
03	09 20 05.0	44.010 N	128.907 W	10 G 3.8	0.8	60	OFF COAST OF OREGON
03	09 46 52.5+	41.515 N	14.629 E	10 G	1.1	10	SOUTHERN ITALY
03	10 16 26.5?	19.18 N	67.84 W	74 ? 3.9	1.3	15	MONA PASSAGE
03	10 33 33.8?	39.15 N	27.62 E	10 G	0.1	4	TURKEY. MD 2.7 (ISK).
03	11 01 01.1	39.347 N	21.534 E	10 G	1.1	7	GREECE. MD 3.0 (ATH).
03	11 58 25.9%	37.632 N	118.939 W	8		8	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.9 (GM).
03	13 00 32.1+	39.002 N	142.891 E	33 N	0.9	6	NEAR EAST COAST OF HONSHU, JAPAN
03	13 21 30.5?	5.03 S	145.51 E	33 N 3.8	1.4	5	EAST PAPUA NEW GUINEA REGION
03	13 41 08.8%	39.200 N	27.278 E	10 G	0.5	5	TURKEY. MD 3.1 (ISK).
03	14 24 50.4?	39.65 N	28.78 E	10 G	0.9	6	TURKEY. MD 3.0 (ISK).
03	15 33 15.1	41.896 N	23.369 E	5 G	1.0	21	GREECE-BULGARIA BORDER REGION. ML 2.5 (SKO). MD 2.9 (THE).
03	15 52 05.0?	7.00 S	125.98 E	509 ? 4.4	1.0	7	BANDA SEA
03	16 05 39.5%	43.032 N	18.680 E	10 G	0.2	9	YUGOSLAVIA. ML 1.9 (TTG).
03	16 42 40.9%	45.086 N	2.845 E	10 G	1.4	8	FRANCE. ML 2.2 (LDG).
03	17 13 36.8%	45.006 N	0.762 E	10 G	1.0	14	FRANCE. ML 3.1 (LDG).
03	17 22 43.9+	11.324 N	125.466 E	80 ? 4.6	1.1	17	SAMAR, PHILIPPINE ISLANDS
03	17 30 57.0+	15.084 S	173.665 W	10 G 4.9 4.9	1.0	42	TONGA ISLANDS
03	18 30 49.4%	49.240 N	122.520 W	5		47	BRITISH COLUMBIA. <PGC>. ML 3.0 (PGC). MD 2.9 (SEA). Felt (V) in the Maple Ridge area. Also felt at Fort Langley, Haney, Langley, Mission, North Vancouver, Pitt Meadows, Port Coquitlam, Surrey and Vancouver.
03	19 12 58.3%	60.001 N	152.839 W	103		37	SOUTHERN ALASKA. <AEIC>.
03	20 12 31.9%	38.660 N	16.085 E	10 G	0.9	16	SOUTHERN ITALY
03	20 58 15.2?	51.03 N	172.27 W	33 N 4.2	0.4	8	ANDREANOF ISLANDS, ALEUTIAN IS.
03	21 14 24.0%	16.859 N	99.641 W	33 N	0.9	8	NEAR COAST OF GUERRERO, MEXICO
03	22 36 22.0%	43.003 N	12.792 E	10 G	0.8	9	CENTRAL ITALY
03	22 43 16.3+	18.155 S	178.562 W	638 ? 4.9	1.0	47	FIJI ISLANDS REGION
03	23 19 17.9%	17.685 N	101.344 W	10 G	1.1	10	NEAR COAST OF GUERRERO, MEXICO
03	23 45 00.2	26.126 N	99.587 E	10 G 4.5	1.2	16	YUNNAN PROVINCE, CHINA

04	00 03 47.7	39.114 N	21.656 E	10 G		0.9	13	GREECE. MD 3.1 (ATH), 2.9 (THE).
04	00 55 58.9%	41.616 N	13.718 E	10 G		0.8	10	SOUTHERN ITALY
04	01 48 12.1*	20.211 S	68.924 W	192 ?		0.6	6	CHILE-BOLIVIA BORDER REGION
04	01 58 10.6%	43.006 N	18.697 E	10 G		0.7	8	YUGOSLAVIA. ML 1.6 (TTG).
04	02 17 19.6	44.599 N	9.906 E	10 G		1.0	17	NORTHERN ITALY
04	02 42 34.7*	0.041 S	123.821 E	133 *	4.6	1.1	12	MINAHASSA PENINSULA
04	03 43 05.1%	37.662 N	15.047 E	10 G		0.6	5	SICILY
04	04 00 47.8%	45.115 N	2.868 E	10 G		1.0	7	FRANCE. ML 2.0 (LDG).
04	04 26 41.3*	44.546 N	9.911 E	13		1.1	9	NORTHERN ITALY
04	04 27 19.3?	31.07 S	14.85 W	10 G	4.6 4.7	0.4	18	SOUTH ATLANTIC RIDGE
04	04 29 37.2?	34.13 S	14.23 W	10 G	4.8	0.8	20	TRISTAN DA CUNHA REGION
04	04 39 31.8?	45.07 N	3.02 E	10 G		0.7	5	FRANCE. ML 1.9 (LDG).
04	05 03 31.7%	59.839 N	152.617 W	84			56	SOUTHERN ALASKA. <AEIC>.
a 04	06 26 31.8	42.387 N	44.116 E	20 D	5.0 4.9	1.3	202	WESTERN CAUCASUS. Damage (VII) in the Dzhava-Tskhinvali area, USSR. Felt (IV) at Tbilisi, USSR.
04	06 54 16.1	8.439 S	111.021 E	114	5.3	1.3	114	JAVA
a 04	07 08 31.9	8.146 S	124.689 E	29 D	5.4 4.8	1.2	130	TIMOR
04	07 51 22.5?	30.15 N	113.60 W	10 G	3.8	0.8	6	GULF OF CALIFORNIA
04	08 27 04.4?	44.37 N	7.35 E	10 G		0.1	4	NORTHERN ITALY ML 1.6 (GEN).
04	08 45 39.7*	5.801 S	150.197 E	130 ?	4.7	1.4	17	NEW BRITAIN REGION
04	08 47 10.6	47.542 N	5.359 E	9		0.9	44	FRANCE. ML 3.7 (LDG). MD 3.5 (UCC).
04	09 25 20.9*	47.716 N	154.431 E	33 N	4.7	1.0	31	KURIL ISLANDS
04	09 26 17.5?	39.70 N	29.44 E	10 G		0.8	5	TURKEY. MD 2.8 (ISK).
04	10 17 47.5	28.063 N	57.314 E	39 D	4.8 3.6	1.0	93	SOUTHERN IRAN
04	10 32 36.7	28.588 N	142.530 E	28 D	5.0 3.7	0.9	106	BONIN ISLANDS REGION
04	10 52 24.7%	40.394 N	23.328 E	10 G		0.2	6	GREECE. MD 1.9 (THE).
04	11 20 30.5?	30.45 N	113.86 W	10 G	4.5	1.7	9	GULF OF CALIFORNIA
f 04	11 43 10.4	8.099 S	124.681 E	29	6.2 6.5	1.1	328	TIMOR. Ms 6.4 (BRK). Ma=2.0*10**19 Nm (PPT). Twenty-three people killed, 181 injured, at least 5,400 left homeless and about 1,150 buildings destroyed at Kalabahi, Alor. Estimated 7.7 million U.S. dollars damage occurred in the epicentral area. Felt at Dili, Timor. Two events about 2.5 seconds apart observed on broadband displacement seismograms.
04	11 57 22.4%	40.256 N	23.495 E	10 G		1.2	5	GREECE. MD 2.2 (THE).
04	12 17 33.0%	60.276 N	151.975 W	70			46	KENAI PENINSULA, ALASKA. <AEIC>.
04	12 30 06.2*	8.142 S	124.627 E	68 ?	5.1 5.3	1.3	30	TIMOR
04	12 31 02.1?	8.13 S	124.80 E	33 N	4.9	0.9	6	TIMOR
04	13 18 15.2?	43.50 N	128.49 W	10 G		0.4	35	OFF COAST OF OREGON
04	13 56 06.6	8.119 S	124.726 E	19 D	5.3 5.0	1.3	88	TIMOR. Felt at Dili.
04	14 11 43.5?	11.35 S	125.99 E	33 N	4.7	1.5	6	TIMOR SEA
04	14 24 50.5*	8.265 S	124.394 E	33 N	4.3	0.7	9	TIMOR
04	14 32 04.4	8.132 S	124.606 E	33 N	4.8	1.0	24	TIMOR
04	14 39 08.8%	41.158 N	28.479 E	10 G		0.4	7	TURKEY. MD 2.8 (ISK).
04	14 49 41.4?	39.13 N	27.69 E	10 G		0.3	4	TURKEY. MD 3.1 (ISK).
04	16 29 07.2?	14.92 N	120.73 E	80 ?	4.6	1.1	5	LUZON, PHILIPPINE ISLANDS
04	16 32 59.3?	12.03 S	118.61 E	33 N	4.5	1.4	7	SOUTH OF SUMBAWA ISLAND
04	16 43 34.6%	17.139 N	95.067 W	33 N		0.8	5	OAXACA, MEXICO
04	17 34 41.0	51.602 N	7.133 E	10 G		0.4	7	GERMANY. ML 2.3 (BNS). MD 2.1 (UCC).
04	18 15 32.6*	37.891 N	21.189 E	10 G		1.3	10	SOUTHERN GREECE. ML 3.2 (ATH).
04	19 05 29.6	6.804 N	72.997 W	156	4.5	1.1	26	NORTHERN COLOMBIA
04	20 19 09.3%	38.896 N	27.027 E	10 G		0.6	5	TURKEY. MD 3.1 (ISK).
04	21 17 30.5*	15.510 S	167.666 E	168 *	4.8	1.0	36	VANUATU ISLANDS
04	22 31 09.9	30.538 S	13.652 W	10 G	4.6 4.4	0.8	27	SOUTH ATLANTIC RIDGE
04	22 47 27.6*	36.547 N	71.412 E	33 N	4.0	1.1	9	AFGHANISTAN-USSR BORDER REGION
04	23 20 59.1	43.006 N	18.711 E	10 G		0.5	10	YUGOSLAVIA. ML 1.9 (TTG).
04	23 27 42.6*	8.222 S	124.473 E	33 N	4.3	0.9	10	TIMOR
05	00 27 27.7	44.634 N	10.009 E	10 G		0.8	12	NORTHERN ITALY
05	01 47 36.7%	45.232 N	73.896 W	18 G			17	SOUTHERN QUEBEC. <OTT-P>. mblg 3.8 (OTT). Felt at Chateauguay, Laval and Montreal. Felt (IV) at Champlain and Churubusca, New York. Felt (III) at Altano, Danemaro, Fort Covington and Morrisonville, New York.
05	01 54 53.7%	15.013 N	92.247 W	10 G		1.5	8	MEXICO-GUATEMALA BORDER REGION
05	02 02 35.3	38.438 N	20.978 E	10 G	3.4	1.2	31	GREECE. ML 3.4 (ATH).
05	03 04 12.9%	40.716 N	29.077 E	10 G		0.3	6	TURKEY. MD 2.8 (ISK).
o 05	03 47 46.8	3.775 S	135.864 E	37 D	5.4 5.1	1.4	125	WEST IRIAN REGION
a 05	04 30 52.5	9.585 S	114.673 E	54 *	5.7 5.6	1.1	186	SOUTH OF BALI ISLAND. Ma=1.0*10**18 Nm (PPT).
05	04 40 12.1*	9.965 S	114.608 E	33 N	4.9	1.1	9	SOUTH OF BALI ISLAND
05	05 25 38.9	36.826 N	6.974 W	18		1.0	14	STRAIT OF GIBRALTAR. mblg 3.2 (MDD). MD 3.2 (RBA).
05	07 31 45.6	44.289 N	7.456 E	10 G		0.7	11	NORTHERN ITALY. ML 2.4 (LDG). 2.0 (GEN).
05	09 01 31.3?	39.10 N	27.71 E	5 G		0.2	4	TURKEY. MD 2.9 (ISK).
05	10 09 56.8*	8.270 S	124.495 E	33 N	4.0	0.7	8	TIMOR
05	10 23 55.1*	35.291 N	140.564 E	57 ?	3.9	0.5	11	NEAR EAST COAST OF HONSHU, JAPAN
05	10 48 56.0%	42.438 N	19.181 E	10 G		0.7	9	YUGOSLAVIA. ML 1.9 (TTG).
o 05	10 58 28.5	47.892 N	145.796 E	468 D	5.6	0.9	429	SEA OF OKHOTSK. mb 5.8 (BRK).
05	11 21 56.5?	8.34 S	124.80 E	33 N	4.6	1.0	6	TIMOR
05	12 45 34.5*	2.082 N	97.722 W	10 G	4.7 4.4	1.0	36	WEST OF GALAPAGOS ISLANDS
05	13 52 17.7	36.727 N	45.219 E	11 D	4.8 3.5	1.2	93	IRAN-IRAQ BORDER REGION. Felt in the Mahabad area, Iran.
a 05	16 46 58.1	47.522 N	154.214 E	25 D	5.2 4.5	0.8	163	KURIL ISLANDS
05	17 07 04.0	7.954 S	124.716 E	30 D	5.3 4.4	1.1	70	BANDA SEA
05	17 41 57.1%	34.500 N	118.560 W	11			33	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.1 (PAS). 3.8 (BRK). Felt (V) at Newhall and Santa Clarita; (IV) at Arcadia, Chatsworth, Los Angeles and South Pasadena; (III) at Burbank, Canoga Park, Fillmore, Granada Hills, Hermosa Beach, Malibu, Manhattan Beach, Mission Hills, Monrovia, Pasadena and Valencia.
05	19 22 00.5%	43.202 N	18.377 E	10 G		0.5	9	YUGOSLAVIA. ML 1.9 (TTG).
05	19 33 52.0	10.694 S	165.919 E	98 D	4.7	1.0	65	SANTA CRUZ ISLANDS
05	20 50 03.2	18.154 S	175.365 W	265 D	4.9	1.1	95	TONGA ISLANDS
05	21 08 49.1%	38.428 N	27.060 E	10 G		0.7	6	TURKEY. MD 3.4 (ISK). Felt at Izmir.
05	21 31 39.6%	61.422 N	150.017 W	32			44	SOUTHERN ALASKA. <AEIC>. ML 2.7 (AEIC).
05	22 04 36.1%	42.946 N	18.647 E	10 G		0.4	8	YUGOSLAVIA. ML 1.6 (TTG).

05	23 37 52.1%	42.574 N	13.251 E	10 G	0.7	5	CENTRAL ITALY
06	00 07 24.1	40.164 N	20.447 E	18	1.1	27	GREECE-ALBANIA BORDER REGION. MD 3.3 (ATH).
06	00 16 40.8?	7.27 S	129.24 E	170 ?	1.7	6	BANDA SEA
06	03 10 26.5?	17.21 S	76.22 W	33 N	1.0	6	OFF COAST OF PERU
06	06 44 09.1?	40.34 N	29.48 E	10 G	0.4	4	TURKEY. MD 2.8 (ISK).
06	07 54 43.0	43.912 N	7.719 E	10 G	0.8	13	NEAR SOUTH COAST OF FRANCE. ML 2.3 (GEN).
06	07 57 40.1?	7.88 S	129.25 E	201 ?	1.3	6	BANDA SEA
06	08 13 28.7%	62.722 N	149.305 W	63		45	CENTRAL ALASKA <AEIC>.
06	10 21 30.2*	10.397 S	161.842 E	61 *	1.0	16	SOLOMON ISLANDS
06	10 22 01.7*	40.240 N	20.383 E	10 G	1.1	7	GREECE-ALBANIA BORDER REGION MD 3.0 (ATH).
06	10 30 42.9?	39.12 N	27.70 E	10 G	0.8	4	TURKEY. MD 2.7 (ISK).
06	11 10 19.5	7.236 S	122.354 E	550 *	1.0	24	FLORES SEA
06	12 06 56.4%	39.962 N	16.228 E	10 G	0.7	8	SOUTHERN ITALY
f 06	12 19 49.5	13.108 S	72.187 W	105 G	1.2	449	PERU. mb 6.5 (BRK). Mo=1.3*10**19 Nm (PPT). Some damage (VI) at Cuzco. Felt (V) at Abancay. Also felt at Lima and Ica. Felt (II) at La Paz, Bolivia. Two events about 4 seconds apart. Depth from broadband displacement seismograms, based on first event.
06	13 13 45.0*	24.645 N	124.023 E	26 *	0.6	9	SOUTHWESTERN RYUKYU ISLANDS
06	13 34 54.1	35.378 N	3.579 W	10	1.1	36	STRAIT OF GIBRALTAR. MD 4.5 (RBA). mbLg 3.7 (MDD).
06	13 49 59.4%	46.937 N	120.339 W	4		82	WASHINGTON. <SEA>. MD 3.4 (SEA).
06	15 08 25.3	2.534 N	126.623 E	96 D	1.3	129	MOLUCCA PASSAGE
06	15 12 20.3*	21.387 S	68.323 W	119 *	1.0	14	CHILE-BOLIVIA BORDER REGION
06	15 48 27.7%	18.241 N	66.952 W	10 G	0.9	5	PUERTO RICO REGION
06	15 55 14.4	41.382 N	20.978 E	10 G	0.9	22	ALBANIA. ML 3.2 (SKO). 2.9 (TTG). Felt (IV) in the Kicevo-Krusevo area, Yugoslavia.
06	16 20 46.3	41.419 N	20.940 E	10 G	1.1	10	ALBANIA. ML 3.3 (SKO) MD 3.3 (ATH). Felt (IV) in the Kicevo-Krusevo area, Yugoslavia.
06	16 58 46.5*	21.121 N	121.443 E	103 *	0.7	19	TAIWAN REGION
06	17 26 25.8*	5.246 S	145.982 E	46 *	0.5	6	EAST PAPUA NEW GUINEA REGION
06	18 01 25.3*	38.188 N	22.089 E	5 G	1.5	9	GREECE. MD 3.1 (ATH)
06	18 06 58.5	46.988 N	113.357 W	5 G	0.3	10	MONTANA. ML 3.2 (BUT)
06	18 24 08.4%	59.039 N	152.083 W	60		40	SOUTHERN ALASKA. <AEIC>.
06	19 00 12.5	16.713 S	167.518 E	26 D	1.1	87	VANUATU ISLANDS
06	19 47 29.1*	15.109 S	166.849 E	116 *	1.0	19	VANUATU ISLANDS
06	20 23 08.8	32.296 S	120.383 W	10 G	0.8	49	SOUTH PACIFIC OCEAN
06	22 54 38.9%	34.240 N	118.010 W	10	29		SOUTHERN CALIFORNIA. <PAS-P>. ML 3.8 (PAS). Felt (V) at Altadena, North Hollywood, Northridge, Norwalk, Pasadena and Sierra Madre; (IV) at Arcadia, Burbank, El Monte, Glendale, Glendora, Manrovia, Mount Wilson and Sunland; (III) at Baldwin Park, Claremont, Covino, La Crescenta, Long Beach, Los Angeles, Rosemead and Santa Clarita.
06	23 32 34.2	21.442 S	69.394 W	35 D	0.8	52	NORTHERN CHILE
07	00 58 17.5	5.433 N	125.942 E	118 D	1.2	77	MINDANAO, PHILIPPINE ISLANDS
07	01 02 21.7%	43.386 N	18.561 E	10 G	0.7	9	YUGOSLAVIA. ML 1.9 (TTG).
07	02 00 50.5	41.927 N	125.836 W	10 G	0.6	77	OFF COAST OF NORTHERN CALIFORNIA
07	02 58 38.7%	46.930 N	120.338 W	4		73	WASHINGTON. <SEA>. MD 3.3 (SEA).
07	03 07 58.1*	14.247 S	14.203 W	10 G	0.9	20	SOUTH ATLANTIC RIDGE
07	03 50 19.9%	39.141 N	15.415 E	33 N	0.7	7	SOUTHERN ITALY
07	04 01 01.6	15.611 N	120.981 E	28	1.3	42	LUZON, PHILIPPINE ISLANDS
07	05 37 49.8*	19.590 S	71.509 W	10 G	0.9	8	OFF COAST OF NORTHERN CHILE
07	05 39 12.7	38.649 N	21.164 E	10 G	1.0	11	GREECE. MD 3.0 (ATH).
07	06 56 04.2?	12.24 S	74.93 W	33 N	1.3	5	PERU
07	09 28 39.4?	18.42 N	147.68 E	33 N	0.4	6	MARIANA ISLANDS REGION
07	09 57 30.0%	40.674 N	15.717 E	10 G	0.8	11	SOUTHERN ITALY
07	10 02 47.5*	71.899 N	0.882 W	10 G	1.3	18	JAN MAYEN ISLAND REGION
07	10 56 01.7*	34.123 N	22.744 E	42 *	0.9	23	MEDITERRANEAN SEA
07	11 01 09.1	44.628 N	10.042 E	17	1.1	20	NORTHERN ITALY. ML 2.7 (LDG).
07	11 25 31.1%	63.376 N	151.264 W	11		51	CENTRAL ALASKA. <AEIC>. ML 3.0 (AEIC).
07	11 25 36.4	35.420 N	6.357 W	33 N	1.1	52	STRAIT OF GIBRALTAR. mbLg 3.8 (MDD). MD 3.8 (RBA).
07	11 38 46.0*	14.196 S	75.930 W	76 *	0.9	11	NEAR COAST OF PERU. Felt at Ica. Also felt lightly at Lima.
07	12 00 57.2%	61.814 N	149.623 W	40		61	SOUTHERN ALASKA. <AEIC>. ML 3.1 (AEIC). 3.6 (PMR).
07	12 03 36.9	45.095 N	2.942 E	5 G	1.0	13	FRANCE. ML 2.5 (LDG).
07	12 27 22.1?	15.43 S	173.65 W	140 ?	0.7	9	TONGA ISLANDS
07	13 14 28.8*	23.971 S	67.845 W	113 *	0.5	12	CHILE-ARGENTINA BORDER REGION
07	13 59 57.3?	18.77 N	67.52 W	10 G	0.2	7	MONA PASSAGE
07	14 37 04.7?	49.58 S	164.25 E	33 N	1.5	15	AUCKLAND ISLANDS REGION
07	14 53 12.0%	46.933 N	120.321 W	5		66	WASHINGTON. <SEA>. MD 2.6 (SEA).
07	16 26 20.6*	5.987 S	130.943 E	80 G	1.1	33	BANDA SEA
07	16 39 19.4%	60.207 N	146.268 W	9		51	SOUTHERN ALASKA. <AEIC>. ML 2.9 (AEIC).
07	17 26 15.4*	33.427 N	48.314 E	64 *	1.5	39	WESTERN IRAN. Felt at Khoramabad.
07	18 09 08.7	8.030 S	124.865 E	17 D	1.2	22	TIMOR
07	18 11 29.6%	61.421 N	150.986 W	62		38	SOUTHERN ALASKA. <AEIC>.
07	21 18 48.4	39.296 N	27.816 E	10 G	0.5	14	TURKEY. MD 3.5 (ISK). 3.3 (ATH).
07	21 24 02.6	36.658 N	91.643 W	5 G	0.7	16	MISSOURI-ARKANSAS BORDER REGION. mbLg 4.0 (GS). 3.8 (TUL). Slight damage (VI) at Altan, Myrtle and Thayer, Missouri. Felt (V) at Brandsville; (IV) at Gatewood, Kashkohang, West Plains and Winona; (III) at Birch Tree, Daniphan and Eminence, Missouri. Felt (IV) at Ash Flat, Camp, Cherakee Village, Hordy and Mammoth Spring, Arkansas. Felt (III) at Mountain View, Paragould, Pacahantlas, Sturkie and Wisemon, Arkansas.
07	22 39 21.3%	18.189 N	66.971 W	10 G	0.4	5	PUERTO RICO REGION
07	22 53 59.2	45.111 N	7.382 E	9	1.0	39	NORTHERN ITALY. ML 2.8 (GEN). 2.7 (LDG).
07	23 41 34.2	42.965 N	18.705 E	10 G	0.8	8	YUGOSLAVIA. ML 1.9 (TTG).
07	23 53 45.7%	39.960 N	27.406 E	10 G	1.0	7	TURKEY. MD 2.9 (ISK).
08	00 18 12.4	42.975 N	18.694 E	10 G	0.5	9	YUGOSLAVIA. ML 1.8 (TTG).
08	00 39 10.0?	14.51 N	119.61 E	68 ?	1.0	10	LUZON, PHILIPPINE ISLANDS
08	02 54 14.4?	43.73 N	148.38 E	10 G	1.4	7	KURIL ISLANDS REGION
08	03 41 32.4*	22.431 S	67.771 W	33 N	0.9	5	CHILE-BOLIVIA BORDER REGION
08	08 40 51.9	40.278 N	29.179 E	10 G	0.9	14	TURKEY

08	08 48 13.1%	39.108 N	27.720 E	10 G	0.4	5	TURKEY
08	08 59 50.0*	9.069 S	124.893 E	33 N 4.6	1.2	12	TIMOR
08	09 29 50.2%	38.463 N	27.109 E	10 G	0.5	8	TURKEY. Felt at Izmir.
08	09 40 51.6?	15.04 N	120.14 E	10 G 4.2	0.6	5	LUZON, PHILIPPINE ISLANDS
08	10 06 42 1?	39.15 N	27.64 E	10 G	0.5	4	TURKEY
08	10 30 39 4*	24.557 N	124.317 E	10 G 4.5	0.3	9	SOUTHWESTERN RYUKYU ISLANDS
08	10 41 21.5	44.580 N	9.951 E	10 G	0.7	15	NORTHERN ITALY ML 2.8 (LDG).
08	10 45 33 7	20.225 S	133.825 E	5 G 5.1	1.4	39	NORTHERN TERRITORY, AUSTRALIA
08	10 53 37 9*	8.970 N	127.319 E	33 N 4.5	1.4	7	PHILIPPINE ISLANDS REGION
08	11 08 17.9?	15.07 N	120.42 E	33 N 4.7	0.6	5	LUZON, PHILIPPINE ISLANDS
08	11 23 54 7%	44.160 N	8.178 E	10 G	0.3	7	NORTHERN ITALY ML 2.0 (GEN).
08	12 36 04.2%	39.105 N	27.726 E	10 G	0.6	5	TURKEY
08	13 04 59 0%	39.092 N	27.646 E	10 G	0.2	5	TURKEY
08	13 18 11.5?	44.85 N	6.54 E	32 ?	0.3	5	FRANCE. ML 1.8 (GEN)
08	13 19 51 1%	60.927 N	5.762 E	10 G	1.0	5	SOUTHERN NORWAY MD 1.4 (BER).
08	15 23 05.2%	38.793 N	122.763 W	4		13	NORTHERN CALIFORNIA. <BRK>. ML 3.6 (BRK). Mo=6.0*10**14 Nm (BRK). Felt (IV) at Cobb. Also felt at The Geysers.
08	15 30 18 2	23.726 N	142.895 E	33 N 5.0 4.2	1.1	76	VOLCANO ISLANDS REGION
08	15 55 20.4*	6.240 S	132.732 E	33 N 4.3	0.8	9	TANIMBAR ISLANDS REGION
08	16 08 16.0	51.922 N	152.539 E	411 * 4.5	0.8	94	NORTHWEST OF KURIL ISLANDS
08	16 34 42.9%	40.299 N	27.840 E	10 G	0.6	7	TURKEY
08	18 47 46.3%	39.211 N	28.940 E	10 G	1.4	6	TURKEY
08	18 52 15.8%	46.786 N	3.601 E	10 G	1.1	11	FRANCE. ML 2.5 (LDG).
08	19 50 48.4?	39.53 N	23.58 E	10 G	0.2	4	AEGEAN SEA
08	19 52 51.4%	63.101 N	150.852 W	120		39	CENTRAL ALASKA. <AEIC>.
08	21 14 22.1	53.162 N	159.885 E	42 D 5.4 4.4	1.0	280	NEAR EAST COAST OF KAMCHATKA. Felt (III) at Petropavlovsk-Kamchatskiy.
08	22 18 02.8	38.241 N	26.568 E	14	0.6	17	AEGEAN SEA. ML 3.6 (ATH).
08	22 29 14.1%	46.932 N	120.336 W	4		64	WASHINGTON. <SEA>. MD 2.6 (SEA).
08	22 58 19.5%	39.469 N	27.439 E	10 G	0.6	6	TURKEY
08	23 08 55.8?	40.85 N	30.49 E	10 G	0.6	6	TURKEY
08	23 49 07.4%	36.140 N	89.440 W	12		22	NEW MADRID, MISSOURI REGION. <SLM>. MD 3.0 (SLM).
09	00 23 39 4%	36.490 N	3.506 W	10 G	1.0	5	STRAIT OF GIBRALTAR. mbLg 2.9 (MDD).
09	00 26 43.6*	38.347 N	21.185 E	10 G	1.4	5	GREECE. MD 3.0 (ATH).
09	00 42 39.9?	39.12 N	29.28 E	10 G	0.5	4	TURKEY
09	01 41 59 5%	41.265 N	21.213 E	10 G	0.7	12	YUGOSLAVIA
09	01 54 02.8?	8.62 S	124.16 E	166 * 4.1	0.6	7	TIMOR
09	01 58 05.4	43.332 N	20.987 E	10 G	1.2	41	YUGOSLAVIA. ML 3.3 (ZAG), 3.0 (TTG). MD 3.1 (ATH).
09	02 40 10.8	60.404 N	5.625 E	10 G	1.2	11	SOUTHERN NORWAY. MD 2.2 (BER).
09	05 33 48.4?	15.14 N	119.95 E	33 N 4.5	1.1	5	LUZON, PHILIPPINE ISLANDS
o 09	05 54 07 1	20.599 S	68.803 W	101 D 5.3	1.0	140	CHILE-BOLIVIA BORDER REGION
o 09	06 13 20 9	6.204 S	130.010 E	128 * 4.9	0.9	34	BANDA SEA
o 09	06 53 34 1	23.227 N	65.524 W	10 G 5.5 5.3	1.1	305	NORTH ATLANTIC OCEAN Ms 5.5 (BRK). Felt at San Juan, Puerto Rico.
09	06 57 50 3*	23.152 N	64.504 W	10 G 4.5 4.9	0.6	11	NORTH ATLANTIC OCEAN
09	07 14 42 0*	23.144 N	65.635 W	10 G 4.3	1.3	24	NORTH ATLANTIC OCEAN
09	07 41 28.4%	59.009 N	153.173 W	71		37	SOUTHERN ALASKA. <AEIC>.
09	08 18 45 5*	10.513 S	123.699 E	82 * 4.7	1.0	12	TIMOR
09	08 30 22.8%	60.460 N	151.996 W	85		47	KENAI PENINSULA, ALASKA. <AEIC>.
09	09 06 11.5%	33.490 N	116.420 W	7		21	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.7 (PAS). Felt (III) at Indio, Lake Elsinore, Ramona and Rancho Mirage. Also felt at Cathedral City and Palm Springs.
09	11 14 47.1	22.131 N	94.482 E	132 * 4.3	1.1	19	BURMA
09	11 18 19 7?	5.03 N	78.39 W	33 N 4.4	1.4	7	SOUTH OF PANAMA
09	11 38 10.6?	41.18 N	28.52 E	10 G	0.5	4	TURKEY
09	11 40 00.0?	43.52 N	149.10 E	33 N 4.2	1.4	7	KURIL ISLANDS REGION
09	11 46 17.9*	15.702 N	94.507 W	10 G 4.2	1.5	14	NEAR COAST OF OAXACA, MEXICO
09	12 12 57.4	13.680 N	124.187 E	62 * 4.8	0.4	13	LUZON, PHILIPPINE ISLANDS
09	12 19 34 7*	7.143 S	129.632 E	145 ? 4.3	1.0	10	BANDA SEA
09	13 44 43.1%	41.922 N	19.237 E	9 G	0.3	9	ALBANIA. ML 2.1 (TTG).
09	13 56 05.1?	41.09 N	28.50 E	10 G	0.6	4	TURKEY
09	14 19 54.7%	39.138 N	27.607 E	10 G	0.3	6	TURKEY
09	15 10 31.6?	43.43 N	13.11 E	10 G	0.5	5	CENTRAL ITALY
09	15 36 06 2*	44.213 N	129.444 W	10 G 4.0	0.6	42	OFF COAST OF OREGON
09	15 49 07 7*	10.523 S	124.010 E	57 * 3.8	0.6	7	TIMOR
09	15 49 38.6*	8.339 S	124.333 E	50 D 5.2	1.0	17	TIMOR
09	16 14 31.9	4.941 S	144.417 E	55 * 5.2	1.1	28	NEAR N COAST OF PAPUA NEW GUINEA
09	16 27 34.3?	15.04 N	120.06 E	33 N 4.7	0.8	6	LUZON, PHILIPPINE ISLANDS
09	18 19 29.7?	16.60 S	71.63 W	5 G	0.2	4	SOUTHERN PERU. Felt (II) at Arequipa.
09	18 28 48.7	36.701 N	141.337 E	43 D 4.7 4.2	1.1	67	NEAR EAST COAST OF HONSHU, JAPAN
09	18 41 11.0*	15.981 S	31.539 E	10 G	0.4	5	MOZAMBIQUE. MG 3.9 (LMM).
09	18 46 27.1	41.390 N	20.939 E	5 G	1.0	37	ALBANIA. ML 4.0 (SKO). MD 3.4 (ATH). Felt (V) in the Kicevo-Krusevo area, Yugoslavia.
09	19 08 02.3	41.354 N	20.943 E	9	1.0	45	ALBANIA. ML 3.5 (SKO). MD 3.4 (ATH), 3.1 (THE). Felt (IV) in the Kicevo-Krusevo area, Yugoslavia.
09	19 39 13.7*	24.247 S	66.809 W	172 ? 4.5	1.1	10	SALTA PROVINCE, ARGENTINA
09	20 06 30.0	45.899 N	0.189 W	11	0.9	16	FRANCE. ML 2.8 (LDG).
09	20 11 42.5?	40.65 N	29.81 E	10 G	0.2	4	TURKEY
09	20 28 16.3%	61.564 N	150.944 W	65		31	SOUTHERN ALASKA. <AEIC>.
09	22 04 17 1	39.869 N	23.344 E	7	0.5	16	AEGEAN SEA. MD 2.9 (THE).
09	22 42 10.0%	54.647 N	139.965 W	10 G		17	WEST OF VANCOUVER ISLAND. <AEIC>. ML 3.9 (AEIC).
09	22 57 13.4?	39.75 N	23.33 E	10 G	0.8	4	AEGEAN SEA. MD 1.6 (THE).
09	23 17 00.8	38.286 N	23.996 E	10 G	1.3	24	GREECE. ML 2.5 (ATH). MD 2.7 (THE).
09	23 20 28.7?	6.21 S	150.18 E	33 N 3.9	1.2	6	NEW BRITAIN REGION
10	01 30 30.0%	38.884 N	30.099 E	10 G	0.5	5	TURKEY
10	01 48 03.8%	44.419 N	7.287 E	10 G	0.1	5	NORTHERN ITALY. ML 2.1 (GEN).
10	02 21 56.8%	11.025 N	61.936 W	33 N	0.9	6	WINDWARD ISLANDS. MD 3.4 (TRN).
10	02 46 36.3	4.590 S	143.567 E	115 * 4.9	0.9	31	PAPUA NEW GUINEA
10	05 16 56.3	53.089 N	159.829 E	24 D 5.1 4.3	1.0	126	NEAR EAST COAST OF KAMCHATKA
10	05 34 05.9	9.071 N	124.141 E	515 5.0	0.9	59	MINDANAO, PHILIPPINE ISLANDS
10	05 48 10.5?	15.14 N	120.64 E	33 N 4.6	1.5	5	LUZON, PHILIPPINE ISLANDS
o 10	05 52 02.3	43.300 N	145.728 E	98 D 5.4	1.0	294	HOKKAIDO, JAPAN REGION
10	05 55 08.1	39.832 N	23.349 E	10 G 4.3	0.9	56	AEGEAN SEA. ML 3.9 (TTG), 3.7 (ATH). MD 4.0 (THE).

10	06 11 32.6*	44.227 N	129.396 W	10 G	4.2	0.6	47	OFF COAST OF OREGON
10	06 53 05.1	0.687 S	119.946 E	49 D	5.0 4.4	1.0	38	MINAHASSA PENINSULA. Minor damage (V) at Palu, Sulawesi.
10	07 22 33.4&	37.842 N	122.022 W	4			11	CENTRAL CALIFORNIA. <BRK>. ML 2.4 (BRK). Mo=1.9*10**13 Nm (BRK). Felt at Alamo, Danville and Maraga.
10	07 40 41.2	44.484 N	7.232 E	10 G		0.4	11	NORTHERN ITALY. ML 2.3 (GEN).
10	08 27 32.8%	39.639 N	29.398 E	10 G		0.8	8	TURKEY
10	08 55 47.8&	60.115 N	153.303 W	136			60	SOUTHERN ALASKA. <AEIC>.
10	09 05 37.9?	39.14 N	27.62 E	10 G		0.1	4	TURKEY
10	09 39 04.7	43.657 N	20.609 E	10 G		1.4	15	YUGOSLAVIA. ML 2.8 (TTG).
o	09 49 25.7	12.525 N	93.874 E	117 D	5.2	1.1	110	ANDAMAN ISLANDS REGION
10	10 16 33.3?	29.38 S	75.94 E	10 G	4.5	1.5	11	MID-INDIAN RISE
10	10 59 38.0%	40.333 N	27.974 E	10 G		0.4	7	TURKEY
10	11 16 48.8	39.878 N	23.315 E	10 G		0.7	10	AEGEAN SEA. MD 2.5 (THE).
10	11 33 21.2	51.550 N	16.236 E	5 G		0.5	12	POLAND. ML 3.6 (VKA).
10	11 45 56.4*	41.652 N	22.169 E	10 G		0.8	5	YUGOSLAVIA. ML 2.3 (SKO).
10	12 18 29.9	42.572 N	24.156 E	5 G		1.4	11	BULGARIA
10	13 50 33.9%	37.712 N	15.057 E	10 G		0.7	5	SICILY
10	14 07 31.9*	6.221 S	104.720 E	81 ?	4.5	1.2	15	SUNDA STRAIT
10	14 10 02.6?	58.97 N	5.91 E	10 G		1.0	4	SOUTHERN NORWAY. MD 1.7 (BER).
10	14 14 57.1&	61.177 N	150.115 W	10			48	SOUTHERN ALASKA. <AEIC>. ML 2.7 (AEIC).
10	14 35 48.5	44.320 N	7.274 E	10 G		0.4	12	NORTHERN ITALY. ML 2.6 (LDG).
10	15 07 37.3*	15.064 N	120.176 E	33 N	4.4 4.0	1.4	13	LUZON, PHILIPPINE ISLANDS
10	15 27 05.0&	36.855 N	121.320 W	3			12	CENTRAL CALIFORNIA. <BRK>. ML 2.5 (BRK).
10	16 36 05.0	41.083 N	22.152 E	10 G		0.9	15	YUGOSLAVIA. ML 2.1 (SKO). MD 2.1 (THE).
10	17 07 38.2?	50.40 N	19.11 E	10 G		0.3	4	POLAND. ML 2.7 (KRA).
10	17 40 41.6%	43.608 S	12.963 E	10 G		0.2	5	CENTRAL ITALY
10	18 59 27.0*	31.770 S	68.556 W	33 N		1.4	5	SAN JUAN PROVINCE, ARGENTINA
10	19 16 49.0*	23.991 N	121.680 E	10 G		0.9	5	TAIWAN
10	19 20 37.8*	6.531 S	103.708 E	39 D	4.4	0.6	7	SOUTHWEST OF SUMATERA
10	20 24 21.7*	36.999 N	29.384 E	10 G		0.6	5	TURKEY
10	20 25 30.3	10.013 N	126.177 E	32 D	5.1 4.2	1.3	58	PHILIPPINE ISLANDS REGION
10	20 34 35.4	44.653 N	7.260 E	10 G		0.4	17	NORTHERN ITALY. ML 2.6 (LDG), 2.5 (GEN).
10	21 23 18.6?	44.35 N	7.32 E	10 G		0.0	4	NORTHERN ITALY. ML 1.8 (GEN).
10	22 58 26.3	43.626 N	8.157 E	10 G		0.7	28	CORSICA. ML 3.1 (GEN), 2.9 (LDG).
10	23 09 05.3*	23.280 N	120.134 E	10 G		0.3	5	TAIWAN
10	23 41 02.4	17.413 S	179.513 W	439 *	5.1	1.2	102	FIJI ISLANDS REGION
10	23 56 15.7?	43.11 N	146.64 E	33 N		1.5	5	KURIL ISLANDS
10	23 57 26.4*	51.145 N	15.720 E	5 G		0.9	10	POLAND. ML 3.3 (GRF), 2.6 (KRA).
11	00 29 47.0*	17.790 S	178.708 W	578 D	4.6	1.0	51	FIJI ISLANDS REGION
11	00 41 59.1*	45.970 N	27.022 E	27		1.6	14	ROMANIA
11	00 55 28.8*	1.150 N	122.586 E	39 D	4.7 4.4	1.4	24	MINAHASSA PENINSULA
11	01 12 37.8*	1.142 N	122.630 E	33 N	5.0	1.4	22	MINAHASSA PENINSULA
11	01 12 49.4%	39.369 N	16.292 E	10 G		0.7	8	SOUTHERN ITALY
11	01 21 19.0	38.259 N	21.255 E	11	3.9	1.1	29	GREECE. MD 3.6 (ATH).
11	01 43 28.4?	59.47 N	5.74 E	10 G		0.1	4	SOUTHERN NORWAY. MD 1.7 (BER).
11	01 46 36.2%	42.161 N	19.680 E	10 G		0.4	9	YUGOSLAVIA. ML 1.4 (TTG).
11	02 02 28.2	16.767 S	167.438 E	28 D	5.1 4.7	1.1	57	VANUATU ISLANDS
o	03 16 00.0	57.920 S	25.449 W	33 N	5.4	1.1	69	SOUTH SANDWICH ISLANDS REGION
11	03 48 04.4?	14.22 S	166.85 E	33 N	4.4	0.9	10	VANUATU ISLANDS
11	04 01 11.9&	61.928 N	151.480 W	84			57	SOUTHERN ALASKA. <AEIC>.
11	05 58 18.8*	41.955 N	43.578 E	33 N	4.0	1.5	8	TURKEY-USSR BORDER REGION
11	06 50 44.8%	40.025 N	24.236 E	10 G		1.1	7	AEGEAN SEA
11	09 06 24.4*	53.313 N	170.171 E	33 N	4.2	0.4	10	NEAR ISLANDS, ALEUTIAN ISLANDS
11	09 08 45.8&	58.763 N	143.533 W	10 G			41	GULF OF ALASKA. <AEIC>. ML 2.6 (AEIC).
11	11 01 18.4%	42.226 N	13.660 E	10 G		1.0	7	CENTRAL ITALY
11	12 49 10.0%	42.895 N	13.037 E	10 G		1.0	15	CENTRAL ITALY
11	14 08 22.9%	44.968 N	8.856 E	10 G		0.4	6	NORTHERN ITALY
11	14 25 52.9?	39.15 N	27.64 E	10 G		0.2	4	TURKEY. MD 2.7 (ISK).
11	14 36 24.7?	41.21 N	28.54 E	10 G		0.4	4	TURKEY. MD 2.6 (ISK).
11	14 55 49.4?	41.15 N	28.49 E	10 G		0.6	4	TURKEY. MD 2.6 (ISK).
11	15 19 14.5	26.364 S	27.185 E	5 G		1.1	10	REPUBLIC OF SOUTH AFRICA. mbLg 3.3 (BUL).
11	16 39 49.7?	14.33 N	121.07 E	33 N	4.8	1.2	11	LUZON, PHILIPPINE ISLANDS
11	16 41 45.6	41.366 N	20.958 E	4		1.1	28	ALBANIA. ML 3.4 (SKO). Felt (IV) in the Kicevo-Kruseva area, Yugoslavia.
11	16 52 27.7%	42.948 N	19.227 E	10 G		0.4	8	YUGOSLAVIA. ML 1.2 (TTG).
11	16 59 08.2&	63.409 N	151.461 W	10			30	CENTRAL ALASKA. <AEIC>. ML 2.6 (AEIC).
11	17 52 09.0%	43.016 N	18.731 E	10 G		0.8	5	YUGOSLAVIA. ML 1.2 (TTG).
11	18 27 17.6*	40.220 N	20.407 E	10 G		1.3	7	GREECE-ALBANIA BORDER REGION
11	18 41 46.1%	38.990 N	29.827 E	10 G		0.5	18	TURKEY. MD 3.5 (ISK).
11	18 53 54.7%	40.512 N	23.574 E	10 G		0.5	5	GREECE
11	18 54 20.3%	39.002 N	29.794 E	10 G		0.4	18	TURKEY. MD 3.5 (ISK).
11	19 40 21.2%	44.042 N	10.938 E	10 G		0.1	5	NORTHERN ITALY
11	19 45 44.7*	6.005 S	82.458 W	10 G	4.5 4.5	1.5	17	SOUTH OF PANAMA
11	20 38 57.9	40.567 N	23.866 E	5 G		0.5	6	GREECE
11	21 12 13.2&	39.505 N	123.033 W	2			25	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.3 (BRK).
11	21 43 27.9%	37.580 N	12.955 E	10 G		0.9	10	SICILY
11	22 38 48.6%	39.197 N	27.897 E	10 G		0.5	10	TURKEY. MD 3.2 (ISK).
11	23 05 39.7	26.351 S	27.139 E	5 G		1.4	10	REPUBLIC OF SOUTH AFRICA. mbLg 3.6 (BUL).
12	00 40 55.0	5.429 N	82.531 W	10 G	4.7 4.1	1.2	61	SOUTH OF PANAMA
12	01 04 22.2%	38.233 N	142.322 E	33 N		1.0	8	NEAR EAST COAST OF HONSHU, JAPAN
12	01 41 55.7	41.404 N	20.919 E	10 G	4.0	1.1	96	ALBANIA. ML 4.2 (ATH), 4.0 (TRI). MD 3.9 (TTG). Felt (VI) in the Kicevo-Kruseva area, Yugoslavia and (IV) at Peshkapi, Albania.
12	01 43 16.1?	43.49 N	7.30 E	10 G		0.7	4	NEAR SOUTH COAST OF FRANCE. ML 2.1 (LDG).
12	01 53 17.4*	22.416 N	144.692 E	33 N	4.7	1.3	12	VOLCANO ISLANDS REGION
12	03 44 34.2	46.629 N	10.512 E	10 G		1.2	13	NORTHERN ITALY. ML 2.6 (KBA).
12	04 13 47.0	49.134 N	6.910 E	10 G		1.2	11	GERMANY. ML 2.4 (STR). MD 2.1 (UCC).
o	04 42 23.6	39.368 S	175.902 E	67	5.3	1.1	83	NORTH ISLAND, NEW ZEALAND. Felt throughout central New Zealand.
12	04 51 03.7?	41.96 N	126.11 W	10 G		0.3	44	OFF COAST OF NORTHERN CALIFORNIA
12	04 53 38.2&	57.324 N	153.113 W	49			31	KODIAK ISLAND REGION. <AEIC>. ML 2.9 (AEIC).
12	05 14 35.9	14.012 N	90.063 W	83 D	4.6	1.0	79	GUATEMALA. Felt (III) at San Salvador, El Salvador.

12	05 24 51.0%	39.576 N	26.426 E	10 G	1.0	6	TURKEY. MD 3.4 (ISK).
12	05 37 41.0%	40.431 N	23.011 E	10 G	0.5	6	GREECE
12	07 44 40.8%	38.276 N	14.918 E	10 G	0.7	5	SICILY
12	08 13 43.3%	36.278 S	17.658 W	10 G	4.9 4.6	1.1	20 SOUTH ATLANTIC RIDGE
12	08 20 51.3%	40.373 N	23.274 E	10 G	1.1	8	GREECE
12	08 29 59.1%	39.10 N	27.69 E	10 G	0.7	4	TURKEY. MD 2.9 (ISK).
12	09 35 20.0%	27.97 S	70.68 W	87 *	1.3	9	NEAR COAST OF NORTHERN CHILE
12	10 00 42.2	33.632 S	179.536 W	52 D	5.1	1.3	60 SOUTH OF KERMADec ISLANDS
o 12	10 42 21.2	45.364 N	21.057 E	11 D	5.3 5.7	1.3	298 ROMANIA MD 5.3 (TTG), 5.3 (TRI). ML 5.2 (BRA), 5 0 (KRA). At least 2 people killed, 30 injured and some buildings damaged (VIII) in the Banloc-Deta-Timisoara area. Slight damage at Belgrade, Yugoslavia. Felt in the Subotica-Nis area, Yugoslavia. Also felt at Sofia, Bulgaria and Szeged, Hungary.
12	11 01 35.8%	45.516 N	20.588 E	10 G	1.5	7	YUGOSLAVIA
12	11 12 15.0%	45.447 N	21.081 E	10 G	1.5	8	ROMANIA
12	11 25 29.8%	35.56 S	179.00 E	68 ?	5.2	1.3	16 OFF E. COAST OF N. ISLAND, N.Z.
12	11 37 59.0%	45.344 N	21.063 E	10 G	1.1	12	ROMANIA
12	12 05 30.1%	42.844 N	13.916 E	10 G	0.9	18	CENTRAL ITALY
12	12 09 32.0%	45.435 N	20.961 E	10 G	0.9	6	YUGOSLAVIA
12	12 11 48.7%	39.138 N	27.667 E	10 G	0.3	5	TURKEY. MD 2.8 (ISK).
12	12 22 14.0%	58.663 N	150.648 W	53		52	GULF OF ALASKA. <AEIC>.
12	12 26 48.6%	16.651 N	97.678 W	33 N	1.1	7	OAXACA, MEXICO
12	12 33 28.3%	45.47 N	20.98 E	10 G	1.3	4	YUGOSLAVIA
12	13 05 25.7	49.151 N	6.914 E	10 G	1.3	9	GERMANY. ML 2.5 (STR).
12	13 06 18.4%	39.10 N	27.61 E	10 G	0.6	4	TURKEY. MD 2.5 (ISK).
12	13 18 44.3	45.426 N	20.772 E	10 G	0.8	6	YUGOSLAVIA
12	13 26 44.4%	35.93 S	17.82 W	10 G	4.8	1.0	8 SOUTH ATLANTIC RIDGE
12	13 29 44.7	26.887 S	26.667 E	5 G	1.3	11	REPUBLIC OF SOUTH AFRICA. mbLg 3.7 (BUL).
12	13 51 23.7%	18.523 S	69.736 W	126 *	4.0	1.4	10 NORTHERN CHILE
12	13 55 15.1%	45.589 N	20.987 E	10 G	1.5	15	YUGOSLAVIA
12	14 53 13.7%	41.143 N	28.467 E	10 G	0.5	5	TURKEY. MD 2.8 (ISK).
12	14 59 48.2	10.818 S	166.103 E	202 *	5.2	1.0	83 SANTA CRUZ ISLANDS
12	15 15 59.4%	37.842 N	121.783 W	11		11	CENTRAL CALIFORNIA. <BRK>. ML 3.5 (BRK). Mo=3.2*10**14 Nm (BRK). Felt (IV) at Hayward. Also felt at Berkeley, Livermore, Oakland and Tracy.
12	15 48 58.3	42.835 N	12.789 E	12	1.3	31	CENTRAL OAKLAND, MD 3.3 (ROM).
12	16 23 11.1%	41.123 N	28.681 E	10 G	0.4	6	TURKEY. MD 2.9 (ISK).
12	16 29 08.3	45.446 N	21.167 E	10 G	4.1	1.1	68 ROMANIA. ML 4.0 (TTG).
12	16 46 10.2%	38.07 N	12.56 E	10 G	0.6	4	SICILY
12	17 20 20.7%	45.38 N	20.79 E	10 G	0.5	4	YUGOSLAVIA
12	17 21 27.5	41.026 N	21.993 E	10 G	1.2	9	YUGOSLAVIA. ML 1.7 (SKO).
12	18 35 58.2%	45.19 N	21.77 E	10 G	0.8	4	ROMANIA
12	18 56 38.8%	34.271 N	26.273 E	61 ?	4.0	1.4	14 CRETE
12	19 13 11.4	45.398 N	6.601 E	10 G	0.9	15	FRANCE. ML 2.6 (GEN).
12	19 21 43.6	45.615 N	10.384 E	10 G	1.5	33	NORTHERN ITALY. ML 2.8 (LDG), 2.7 (VIE). MD 2.7 (TRI).
12	19 26 23.3%	20.752 N	102.207 E	33 N	1.6	10	SOUTHEAST ASIA
12	19 35 06.0%	14.241 N	93.932 W	48 *	4.5	1.1	15 NEAR COAST OF CHIAPAS, MEXICO
12	19 38 43.8%	39.84 N	117.78 E	10 G	1.1	4	NORTHEASTERN CHINA. ML 3.3 (BJI).
12	20 09 59.6%	40.749 N	23.507 E	10 G	0.2	5	GREECE
12	20 42 07.3	45.298 N	21.117 E	10 G	1.2	13	ROMANIA
12	22 06 00.2	39.421 N	94.832 E	16 D	4.8 4.5	0.8	86 GANSU PROVINCE, CHINA
12	22 12 20.4%	40.396 N	27.148 E	10 G	0.5	9	TURKEY. MD 2.8 (ISK).
12	22 56 27.5%	61.763 N	149.441 W	32		40	SOUTHERN ALASKA. <AEIC>. ML 2.5 (AEIC).
12	23 59 50.9%	36.545 N	1.726 E	10 G	0.5	7	ALGERIA. mbLg 3.0 (MDD).
13	00 06 46.0	45.018 N	3.058 E	10 G	1.2	13	FRANCE. ML 3.0 (LDG).
13	00 19 57.5%	39.90 N	29.33 E	10 G	0.6	5	TURKEY. MD 2.8 (ISK).
13	00 27 14.4%	23.94 S	179.56 E	638 ?	4.7	1.2	18 SOUTH OF FIJI ISLANDS
13	00 51 21.7	40.434 N	140.975 E	141	4.3	0.9	27 HONSHU, JAPAN
13	01 42 18.1%	67.84 N	24.02 E	10 G	1.3	5	FINLAND. MD 3.0 (BER).
13	01 47 35.4%	11.874 N	60.926 W	33 N	0.6	7	WINDWARD ISLANDS. MD 3.1 (TRN).
13	02 20 38.5%	40.52 N	23.80 E	10 G	0.5	4	GREECE
13	02 39 58.8%	45.53 N	20.88 E	10 G	0.9	4	YUGOSLAVIA
f 13	02 50 14.6	42.182 N	125.641 W	11 G	6.2 6.9	1.0	535 OFF COAST OF OREGON. ML 6.7 (BRK). Mo=3.0*10**19 Nm (PPT). Felt (V) at Coquille, Harbor and Reedsport, Oregon. Felt (IV) at Bandon, Coos Bay, Langlois, Ophir, Port Orford and Wedderburn, Oregon. Also felt (IV) at Crescent City and Klamath, California. Felt throughout much of western Oregon and northern California. Depth from broadband displacement seismograms.
13	03 19 10.2%	41.77 N	125.81 W	10 G	3.7	0.5	34 OFF COAST OF NORTHERN CALIFORNIA
13	03 53 15.5%	61.494 N	146.684 W	14		48	SOUTHERN ALASKA. <AEIC>. ML 2.7 (AEIC).
13	04 07 45.7%	42.36 N	125.50 W	10 G	3.9	0.8	6 OFF COAST OF OREGON
13	04 21 49.0%	47.777 N	5.435 E	10 G	1.0	8	FRANCE. ML 2.4 (LDG).
13	04 33 46.3	45.445 N	21.014 E	10 G	0.9	15	ROMANIA
13	05 10 34.5%	45.496 N	21.081 E	10 G	1.4	8	ROMANIA
13	05 18 59.8%	42.99 N	124.76 W	10 G	2.9	0.6	25 NEAR COAST OF OREGON
13	05 58 24.1%	58.755 N	154.720 W	114		36	ALASKA PENINSULA. <AEIC>.
13	06 09 52.2	41.808 N	125.873 W	10 G	4.5 4.2	1.0	83 OFF COAST OF NORTHERN CALIFORNIA. ML 4.8 (BRK). Felt at Eureka.
13	06 20 29.8%	45.099 N	2.865 E	10 G	0.9	6	FRANCE. ML 2.0 (LDG).
13	06 59 26.0%	42.04 N	125.77 W	10 G	3.5	0.5	25 OFF COAST OF OREGON
13	07 19 01.1%	39.527 N	123.042 W	3		11	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.0 (BRK).
13	08 31 12.8%	5.67 S	141.27 E	33 N	4.0	1.4	6 PAPUA NEW GUINEA
13	08 44 28.4%	40.675 N	30.521 E	10 G	0.6	9	TURKEY. MD 3.2 (ISK).
13	09 09 53.9%	39.12 N	27.68 E	10 G	0.6	4	TURKEY. MD 2.5 (ISK).
13	09 10 49.8%	39.126 N	27.612 E	10 G	0.3	5	TURKEY. MD 2.7 (ISK).
13	09 20 48.4%	39.52 N	28.93 E	10 G	0.9	5	TURKEY. MD 2.7 (ISK).
13	10 13 48.0	41.829 N	125.960 W	10 G	3.7	0.5	55 OFF COAST OF NORTHERN CALIFORNIA
13	10 22 19.5%	37.156 N	30.663 E	10 G	0.6	5	TURKEY
13	10 29 10.3%	37.09 N	30.98 E	10 G	1.4	4	TURKEY. MD 3.6 (ISK).
13	10 54 13.0%	22.729 S	66.643 W	207 *	4.2	1.2	14 JUJUY PROVINCE, ARGENTINA
13	11 06 59.8%	7.59 S	28.10 E	10 G	1.3	11	ZAIRE REPUBLIC. mbLg 4.2 (BUL).

	13	11	07	45.8	8.060 S	124.783 E	49 *	4.8	1.2	25	TIMOR
	13	12	05	46.1?	39.13 N	27.61 E	10 G		0.7	4	TURKEY. MD 2.8 (ISK).
a	13	12	15	13.3	48.738 N	154.933 E	41 D	5.7 5.8	1.0	410	KURIL ISLANDS. Ms 5.7 (BRK). Mo=3.0*10**18 Nm (PPT).
	13	12	17	52.1	44.832 N	7.617 E	20		0.9	52	NORTHERN ITALY. ML 3.2 (GEN), 3.2 (LDG).
	13	12	23	48.5%	43.115 N	17.978 E	10 G		0.3	8	YUGOSLAVIA. ML 1.9 (TTG).
	13	13	03	10.0?	39.10 N	27.80 E	10 G		1.5	4	TURKEY
	13	13	44	18.4	23.904 N	125.810 E	37 D	4.7	1.3	53	SOUTHWESTERN RYUKYU ISLANDS
	13	13	56	47.7%	45.874 N	0.249 W	9		0.9	11	FRANCE ML 2.8 (LDG).
	13	13	58	10.3%	40.806 N	29.566 E	10 G		0.4	6	TURKEY. MD 2.7 (ISK).
	13	14	06	24.6%	45.422 N	21.061 E	10 G		0.9	20	ROMANIA
	13	14	10	08.8%	43.973 N	10.890 E	10 G		0.1	5	CENTRAL ITALY
	13	14	17	09.0?	45.46 N	21.03 E	10 G		0.7	4	ROMANIA
	13	14	35	06.6%	41.952 N	125.807 W	10 G	4.1	0.6	40	OFF COAST OF NORTHERN CALIFORNIA
	13	14	43	28.7%	59.936 N	152.452 W	83			44	SOUTHERN ALASKA. <AEIC>.
	13	15	15	37.3%	46.016 N	2.845 E	10 G		0.1	5	FRANCE. ML 2.0 (LDG).
	13	15	27	47.0%	39.793 N	23.480 E	10 G		1.2	7	AEGEAN SEA
	13	15	30	07.2%	37.744 N	15.007 E	10 G		0.7	6	SICILY
	13	15	47	27.6?	41.88 N	125.80 W	10 G	3.8	0.8	25	OFF COAST OF NORTHERN CALIFORNIA
	13	16	07	05.0?	18.80 S	167.00 E	33 N	4.7	0.9	6	VANUATU ISLANDS
	13	16	13	23.0?	41.84 N	126.00 W	10 G		0.5	30	OFF COAST OF NORTHERN CALIFORNIA
	13	16	19	48.5%	41.984 N	125.778 W	10 G	4.0	0.5	47	OFF COAST OF NORTHERN CALIFORNIA
	13	16	32	39.2%	14.418 N	146.540 E	62 D	4.3	1.2	22	MARIANA ISLANDS
	13	16	56	10.0%	40.496 N	26.116 E	10 G		0.7	5	TURKEY. MD 3.0 (ISK).
	13	17	27	33.7	45.403 N	21.241 E	10 G	4.0	1.1	105	ROMANIA. ML 4.1 (TTG), 4.0 (SKO). Felt (VI) at Belgrade, Yugoslavia.
	13	17	38	41.1	45.498 N	21.067 E	10 G		1.0	11	ROMANIA. Felt (V) at Belgrade, Yugoslavia.
	13	17	56	57.5	45.358 N	21.137 E	10 G		1.1	45	ROMANIA. ML 3.5 (TTG). Felt (V) at Belgrade, Yugoslavia.
	13	18	29	19.4%	38.642 N	73.072 E	33 N	4.5	1.3	7	TAJIK-XINJIANG BORDER REGION
	13	19	03	03.5	45.416 N	21.002 E	10 G		1.1	17	ROMANIA
	13	19	40	53.3%	41.867 N	125.796 W	10 G	3.9	0.4	31	OFF COAST OF NORTHERN CALIFORNIA
	13	19	49	17.2?	42.29 N	125.64 W	10 G	3.2	0.4	22	OFF COAST OF OREGON
	13	19	51	23.7%	43.134 N	17.945 E	10 G		0.6	10	YUGOSLAVIA. ML 2.2 (TTG).
	13	20	25	39.0?	42.38 N	125.32 W	10 G	3.2	0.8	23	OFF COAST OF OREGON
	13	20	32	23.1?	44.44 N	7.25 E	5 G		0.0	4	NORTHERN ITALY. ML 1.6 (GEN).
	13	21	44	29.5%	44.787 N	7.638 E	10 G		0.8	9	NORTHERN ITALY. ML 2.2 (GEN).
	13	22	50	41.6	43.952 N	8.794 E	10 G		1.1	16	CORSICA. ML 2.5 (LDG), 2.5 (GEN).
	13	23	31	29.1?	48.63 N	155.01 E	33 N	4.1	0.7	6	KURIL ISLANDS
	13	23	41	02.5%	45.110 N	2.954 E	10 G		1.3	11	FRANCE. ML 2.6 (LDG).
	14	00	45	46.8?	15.06 N	95.11 W	33 N	3.4	1.7	6	NEAR COAST OF OAXACA, MEXICO
	14	00	56	31.7%	40.722 N	22.050 E	10 G		0.7	5	GREECE
	14	01	18	17.4%	47.234 N	121.944 W	17			65	WASHINGTON. <SEA> ML 2.7 (SEA).
	14	01	32	18.0%	7.484 S	129.267 E	33 N	4.9	1.5	14	BANDA SEA
	14	01	50	31.3?	42.22 N	125.74 W	10 G	3.3	0.8	26	OFF COAST OF OREGON
	14	01	52	42.3%	15.008 N	120.390 E	10 G	4.7	1.3	7	LUZON, PHILIPPINE ISLANDS
	14	01	56	09.0%	16.535 N	101.170 W	33 N	3.8	1.0	12	NEAR COAST OF GUERRERO, MEXICO
	14	02	20	34.8?	42.13 N	125.86 W	10 G	3.5	0.5	37	OFF COAST OF OREGON
	14	02	29	26.3?	41.99 N	125.70 W	10 G		0.4	57	OFF COAST OF NORTHERN CALIFORNIA
	14	02	58	37.7%	36.579 N	1.677 E	10 G		0.9	9	ALGERIA. mblg 3.0 (MDD).
	14	03	20	08.9?	5.64 S	146.42 E	145 ?	4.5	1.5	6	EAST PAPUA NEW GUINEA REGION
	14	04	05	06.3%	17.283 S	168.488 E	229	4.9	1.4	27	VANUATU ISLANDS
	14	04	15	25.1%	42.917 N	147.053 E	33 N	4.0	1.6	17	OFF COAST OF HOKKAIDO, JAPAN
	14	04	28	00.2?	15.51 N	98.27 W	33 N		1.5	7	OFF COAST OF GUERRERO, MEXICO
	14	04	29	52.8%	44.207 N	11.546 E	10 G		0.4	8	NORTHERN ITALY
	14	05	51	26.0	33.380 N	57.211 E	33 N	4.5	0.6	32	IRAN. ML 4.4 (TEH).
	14	06	38	51.0%	21.486 S	68.086 W	130 ?	3.9	1.3	8	CHILE-BOLIVIA BORDER REGION
	14	07	20	40.3?	30.61 S	117.03 E	10 G		0.8	4	WESTERN AUSTRALIA
	14	07	25	48.3?	35.09 S	111.02 W	21 D	4.9	1.3	15	EASTER ISLAND CORDILLERA
	14	08	21	10.8%	42.046 N	20.327 E	10		0.6	10	YUGOSLAVIA. ML 2.4 (TTG).
	14	08	53	02.0%	8.406 S	124.422 E	33 N	4.7	1.6	14	TIMOR
f	14	09	09	11.9	36.334 N	71.119 E	213 G	6.4	1.0	623	AFGHANISTAN-USSR BORDER REGION. Felt strongly in northern Afghanistan and northern Pakistan. Felt (V) at Ishkashim, Khorog, Kulyab, Murgab, Nurek, Ragun and Shaartuz; (IV) at Dushanbe, Gissar, Kamsamalabad, Leninabad, Pendzhikent, Samarkand, Tashkent and Tursunzade, USSR. Also felt in the Chandigarh-Srinagar area, India. Depth from broadband displacement seismograms.
	14	09	42	18.9%	39.168 N	29.350 E	10 G		0.5	8	TURKEY. MD 3.1 (ISK).
	14	10	03	24.5%	32.869 S	109.142 W	10 G	5.0	1.1	38	EASTER ISLAND CORDILLERA
	14	10	06	31.4%	41.833 N	125.951 W	10 G		0.5	49	OFF COAST OF NORTHERN CALIFORNIA
	14	10	32	44.9?	17.68 N	101.44 W	33 N		1.5	6	NEAR COAST OF GUERRERO, MEXICO
	14	10	47	18.5?	39.14 N	27.62 E	10 G		1.1	4	TURKEY. MD 2.7 (ISK).
	14	11	32	42.6?	45.33 N	21.14 E	10 G		0.5	4	ROMANIA
	14	12	27	01.8%	37.937 N	14.334 E	10 G		1.2	15	SICILY
	14	12	55	14.1?	37.89 N	14.32 E	30 ?		1.0	5	SICILY
	14	13	13	45.6%	57.173 N	152.745 W	43			35	KODIAK ISLAND REGION. <AEIC>. ML 3.3 (AEIC).
	14	13	23	42.1?	17.68 N	101.18 W	33 N		1.0	5	NEAR COAST OF GUERRERO, MEXICO
	14	13	28	35.5%	11.663 N	61.415 W	33 N		1.4	6	WINDWARD ISLANDS. MD 2.8 (TRN).
	14	14	19	08.6	36.410 N	138.339 E	188 D	5.2	1.1	102	HONSHU, JAPAN
	14	14	23	52.9%	61.014 N	150.955 W	46			38	SOUTHERN ALASKA. <AEIC>. ML 2.7 (AEIC).
	14	15	01	17.6?	45.32 N	21.15 E	10 G		1.2	4	ROMANIA
	14	17	03	26.3	45.404 N	21.076 E	10 G	3.3	1.0	36	ROMANIA. ML 3.5 (SKO).
	14	17	18	09.3%	43.708 N	12.270 E	10 G		0.4	5	CENTRAL ITALY
	14	17	51	22.2%	37.905 N	14.326 E	10 G		0.8	12	SICILY
	14	19	27	59.4%	41.695 N	132.345 E	515 ?	4.2	0.8	24	SEA OF JAPAN
	14	20	14	59.2%	15.001 N	120.293 E	10 G	4.7	1.1	6	LUZON, PHILIPPINE ISLANDS
	14	20	47	51.0	44.041 N	7.230 E	10 G		0.7	30	NORTHERN ITALY. ML 2.9 (LDG).
	14	21	23	38.8	42.449 N	126.761 W	10 G	4.3 3.6	0.8	64	OFF COAST OF OREGON
	14	21	53	30.2	40.085 N	19.820 E	7		0.7	21	ALBANIA. MD 3.2 (ATH).
	14	22	01	33.1%	37.077 N	71.373 E	33 N	4.0	1.6	15	AFGHANISTAN-USSR BORDER REGION
	14	22	37	12.0%	59.723 N	153.602 W	140			49	SOUTHERN ALASKA. <AEIC>.
	14	22	44	22.3%	39.271 N	16.464 E	10 G		1.4	8	SOUTHERN ITALY

14	22 58 13.5%	42.948 N	18.452 E	13	0.3	9	YUGOSLAVIA. ML 2.0 (TTG).
14	23 59 31.3	45.431 N	21.129 E	10 G	1.0	57	ROMANIA. ML 4.1 (ZAG), 3.9 (TTG).
15	00 15 31.4?	45.56 N	20.93 E	10 G	1.2	4	YUGOSLAVIA
15	00 42 20.6	39.602 N	20.377 E	10 G	0.7	9	GREECE-ALBANIA BORDER REGION
15	01 25 14.6*	0.205 N	125.108 E	69 *	1.2	21	MOLUCCA PASSAGE
15	01 40 17.0	49.124 N	6.853 E	10 G	0.9	10	GERMANY. ML 2.4 (STR). MD 1.9 (UCC).
15	01 54 18.8%	38.540 N	29.159 E	10 G	1.4	6	TURKEY. MD 3.2 (ISK).
15	02 24 08.5*	19.573 S	66.731 W	283 ?	1.3	9	SOUTHERN BOLIVIA
15	02 41 23.7?	38.96 N	27.14 E	10 G	0.4	4	TURKEY. MD 2.9 (ISK).
15	02 57 00.9?	38.98 N	27.17 E	10 G	0.2	4	TURKEY. MD 2.8 (ISK).
15	05 44 56.7?	14.97 N	120.23 E	10 G	0.8	5	LUZON, PHILIPPINE ISLANDS
15	05 49 14.0?	43.91 N	7.67 E	10 G	0.2	4	NEAR SOUTH COAST OF FRANCE. ML 1.9 (GEN).
15	06 32 19.8	20.602 S	63.176 W	574	0.9	35	SOUTHERN BOLIVIA
15	06 44 39.3?	23.89 N	108.22 W	10 G	1.6	9	GULF OF CALIFORNIA
15	06 48 20.1*	4.727 N	127.195 E	104 *	1.1	26	TALAUD ISLANDS
15	07 10 00.1?	22.45 S	67.99 W	33 N	0.9	5	CHILE-BOLIVIA BORDER REGION
15	07 54 38.2*	32.902 S	70.863 W	114 *	0.7	9	CHILE-ARGENTINA BORDER REGION. Felt (IV) at Los Andes, Chile.
15	09 03 18.9%	39.738 N	29.314 E	10 G	0.0	5	TURKEY. MD 2.8 (ISK).
15	09 14 11.4	44.040 N	6.547 E	5 G	0.4	6	FRANCE. ML 2.4 (LDG), 2.3 (GEN).
15	09 30 37.7	42.117 N	125.725 W	10 G	0.5	62	OFF COAST OF OREGON
15	11 15 26.4%	44.390 N	8.624 E	10 G	0.6	5	NORTHERN ITALY
15	12 00 50.3%	40.481 N	30.110 E	10 G	0.3	12	TURKEY. MD 3.4 (ISK).
15	12 22 11.9	45.172 N	150.794 E	24 D	0.9	194	KURIL ISLANDS
15	12 27 03.1?	18.83 S	178.27 W	595 ?	1.0	25	FIJI ISLANDS REGION
15	12 36 17.6%	46.291 N	1.124 E	10 G	0.9	10	FRANCE. ML 2.7 (LDG).
15	13 05 06.1*	38.285 N	20.954 E	5 G	1.0	5	GREECE. MD 3.0 (ATH).
15	13 25 36.4	37.899 N	27.538 E	10 G	0.5	14	TURKEY. MD 3.6 (ISK).
15	15 23 53.8?	37.84 N	29.33 E	10 G	0.2	4	TURKEY. MD 3.1 (ISK).
15	15 45 02.5	45.488 N	21.136 E	10 G	1.1	22	ROMANIA
15	15 57 46.7	24.020 S	179.784 W	505 D	1.2	111	SOUTH OF FIJI ISLANDS
15	16 34 56.3%	38.757 N	27.703 E	10 G	0.5	5	TURKEY. MD 2.9 (ISK).
15	17 18 19.4	49.168 N	6.872 E	10 G	0.8	7	GERMANY. ML 2.2 (STR).
15	17 39 59.7	39.046 N	22.113 E	10 G	1.1	9	GREECE. MD 3.1 (ATH).
15	18 08 32.4%	38.860 N	29.833 E	10 G	0.6	5	TURKEY. MD 2.9 (ISK).
15	18 09 58.3	21.877 S	138.963 W	0 G	1.2	119	TUAMOTU ARCHIPELAGO REGION
15	18 29 55.8%	42.507 N	19.870 E	10 G	0.3	8	YUGOSLAVIA. ML 1.9 (TTG).
15	18 34 36.2*	45.460 N	21.023 E	10 G	1.0	7	ROMANIA
15	19 23 44.0?	15.10 N	120.19 E	10 G	1.6	6	LUZON, PHILIPPINE ISLANDS
15	19 53 01.4?	25.72 N	124.77 E	134 ?	0.7	8	NORTHEAST OF TAIWAN
15	20 14 32.8*	27.353 S	70.353 W	98 *	1.2	11	NEAR COAST OF NORTHERN CHILE. Felt (IV) at Copiapo.
15	20 15 53.6%	61.414 N	147.193 W	15	56	56	SOUTHERN ALASKA. <AEIC>. ML 2.7 (AEIC).
15	20 24 07.7	58.249 N	143.028 W	33 N	0.6	57	GULF OF ALASKA. ML 3.7 (AEIC).
15	21 08 08.2?	26.83 S	178.49 E	636 ?	1.0	18	SOUTH OF FIJI ISLANDS
15	21 16 56.6*	10.061 N	126.351 E	33 N	1.4	9	PHILIPPINE ISLANDS REGION
15	21 24 19.9?	43.87 N	13.02 E	10 G	0.9	5	CENTRAL ITALY
15	22 42 29.1?	19.00 N	119.60 E	33 N	0.9	6	PHILIPPINE ISLANDS REGION
15	23 12 28.9%	60.016 N	149.229 W	10	47	47	KENAI PENINSULA, ALASKA. <AEIC>. ML 3.1 (AEIC), 2.9 (PMR). Felt (III) at Seward.
16	00 56 18.0	49.154 N	6.849 E	10 G	1.0	12	GERMANY. ML 2.6 (STR). MD 2.2 (UCC).
16	01 29 58.2*	8.881 N	122.666 E	57 *	1.5	21	MINDANAO, PHILIPPINE ISLANDS
16	01 57 03.4%	39.702 N	27.796 E	10 G	0.2	10	TURKEY. MD 3.2 (ISK).
16	03 30 03.5*	34.875 N	70.732 E	33 N	1.0	10	AFGHANISTAN
16	05 00 16.7%	45.048 N	3.085 E	10 G	1.2	10	FRANCE. ML 2.7 (LDG).
16	06 01 10.1%	38.615 N	26.708 E	10 G	0.7	6	AEGEAN SEA. MD 3.3 (ISK).
16	07 28 42.6?	0.64 N	29.89 E	33 N	1.3	5	ZAIRE REPUBLIC. mbLg 4.4 (BUL).
16	08 53 21.5%	40.637 N	23.011 E	5 G	0.3	5	GREECE
16	09 07 35.4	37.920 N	21.592 E	10 G	1.1	21	SOUTHERN GREECE. ML 3.5 (ATH).
16	09 26 31.7*	14.490 N	93.998 W	30 D	1.2	38	NEAR COAST OF CHIAPAS, MEXICO. Felt at Mexico City.
16	09 45 30.8?	42.41 N	125.48 W	10 G	0.4	34	OFF COAST OF OREGON
16	09 49 50.9?	39.15 N	27.64 E	10 G	0.3	4	TURKEY. MD 2.9 (ISK).
16	09 56 51.4%	44.386 N	8.330 E	10 G	0.4	12	NORTHERN ITALY. ML 2.5 (GEN).
16	10 26 45.2%	44.336 N	8.224 E	10 G	0.6	6	NORTHERN ITALY. ML 1.7 (GEN).
16	11 18 22.8%	37.724 N	15.007 E	10 G	1.0	5	SICILY
16	11 42 27.0?	47.91 N	2.71 W	10 G	0.2	5	FRANCE. ML 3.1 (LDG).
16	11 51 02.8%	41.460 N	0.744 W	10 G	0.8	6	SPAIN. mbLg 2.9 (MDD).
16	12 03 35.1?	40.03 N	19.39 E	10 G	1.3	7	ALBANIA
16	12 10 31.2?	38.01 N	14.94 E	10 G	0.5	4	SICILY
16	12 16 44.5?	15.06 N	120.08 E	10 G	1.3	5	LUZON, PHILIPPINE ISLANDS
16	12 50 37.1%	38.244 N	1.994 W	10 G	0.5	6	SPAIN. mbLg 2.5 (MDD).
16	13 20 29.7%	37.755 N	14.960 E	10 G	1.0	9	SICILY
16	14 12 32.9%	41.139 N	28.454 E	10 G	0.5	5	TURKEY. MD 2.9 (ISK).
16	14 15 49.8%	44.402 N	7.393 E	5 G	0.6	7	NORTHERN ITALY. ML 1.9 (GEN).
16	14 33 28.1%	44.391 N	7.413 E	10 G	0.3	9	NORTHERN ITALY. ML 1.8 (GEN).
16	15 30 07.0	24.815 N	125.325 E	47 D	1.0	178	SOUTHWESTERN RYUKYU ISLANDS
16	15 39 54.4%	38.034 N	14.876 E	10 G	0.9	11	SICILY
16	15 46 55.1%	64.702 N	151.010 W	26	33	33	CENTRAL ALASKA. <AEIC>. ML 3.1 (AEIC), 3.2 (PMR).
16	15 55 33.5*	48.703 S	126.236 E	10 G	1.4	37	SOUTH OF AUSTRALIA
16	16 09 18.6?	38.04 N	14.91 E	10 G	0.7	4	SICILY
16	16 41 24.9*	3.909 S	104.074 W	10 G	0.8	23	NORTHERN EASTER I. CORDILLERA
16	19 26 56.7*	17.215 N	100.896 W	68 *	0.8	12	GUERRERO, MEXICO
16	22 35 36.9*	0.309 N	67.042 E	10 G	1.3	31	CARLSBERG RIDGE
16	23 14 02.3*	15.066 N	120.283 E	10 G	0.9	9	LUZON, PHILIPPINE ISLANDS
16	23 27 33.5	44.811 N	6.792 E	5 G	0.5	44	FRANCE. ML 3.1 (GEN), 3.0 (LDG).
17	00 22 32.7	37.376 N	20.713 E	48	1.1	71	IONIAN SEA. MD 4.2 (ATH).
17	00 40 16.7*	41.350 N	1.168 E	10 G	0.4	5	SPAIN. mbLg 3.1 (MDD). ML 2.9 (LDG).
17	01 17 22.8	20.517 N	122.026 E	21 D	1.2	72	PHILIPPINE ISLANDS REGION
17	02 55 17.3%	43.036 N	13.491 E	10 G	0.5	8	CENTRAL ITALY
17	05 12 48.3?	27.81 N	111.66 W	10 G	1.6	18	GULF OF CALIFORNIA
17	05 15 25.1%	57.158 N	142.694 W	10 G	3.2	40	GULF OF ALASKA. <AEIC>. ML 3.2 (AEIC).
17	06 35 45.0?	49.17 N	6.85 E	10 G	0.7	6	GERMANY. ML 2.2 (KRW).
17	07 12 09.3	50.935 N	130.162 W	10 G	1.5	162	VANCOUVER ISLAND REGION
17	07 37 47.0?	39.13 N	27.67 E	10 G	0.7	4	TURKEY. MD 2.7 (ISK).

17	08 38 06.77	43.59 N	20.14 E	10 G	0.5	9	YUGOSLAVIA. ML 2.5 (TTG).	
17	10 21 46.27	15.854 N	95 385 W	10 G	0.9	6	NEAR COAST OF OAXACA, MEXICO	
17	10 49 47.67	38.164 N	1.093 W	10 G	1.0	8	SPAIN. mbLg 3.2 (MDD). Felt (III) in the epicentral area.	
17	11 48 06.5	26 806 S	26 744 E	5 G	1.6	8	REPUBLIC OF SOUTH AFRICA. mbLg 3.7 (BUL).	
17	12 25 45.87	40.88 N	29.42 E	10 G	0.8	4	TURKEY. MD 2.3 (ISK).	
17	13 06 46.18	59.635 N	152 429 W	70		57	SOUTHERN ALASKA <AEIC>.	
17	13 25 09.07	41 98 N	125.78 W	10 G	0.6	32	OFF COAST OF NORTHERN CALIFORNIA	
17	14 18 32.57	41.85 N	125 95 W	10 G	0.5	28	OFF COAST OF NORTHERN CALIFORNIA	
17	14 30 13.37	41.15 N	23 30 E	10 G	0.1	4	GREECE-BULGARIA BORDER REGION	
17	15 55 18.27	46.134 N	0.096 W	10 G	1.1	13	FRANCE. ML 2.8 (LDG).	
17	15 57 22.08	61.796 N	147 115 W	33		37	SOUTHERN ALASKA <AEIC>. ML 2.6 (AEIC).	
o 17	16 41 24.8	3.989 S	104 094 W	10 G	5.0 5 5	1.2	71	NORTHERN EASTER I. CORDILLERA. Mo=8.0*10**17 Nm (PPT).
17	16 52 54.07	15.28 N	92 03 W	179 ?		1.4	8	MEXICO-GUATEMALA BORDER REGION
17	16 54 35.27	3 70 S	103.23 W	10 G	4.6	1.5	14	NORTHERN EASTER I. CORDILLERA
17	17 27 32.6	7.234 S	67 978 E	10 G	4 8 5.0	0.9	75	MID-INDIAN RISE
17	17 35 52.3	3.815 N	63 315 E	10 G	5 0 4 7	0.8	40	CARLSBERG RIDGE
17	17 50 28.1	49.132 N	6 881 E	10 G		1.3	11	GERMANY. ML 2.5 (STR) MD 2.4 (UCC).
17	18 03 51.6	43.197 N	126 649 W	10 G	3.4	0.5	69	OFF COAST OF OREGON
17	18 34 22.58	36.943 N	121.425 W	9			9	CENTRAL CALIFORNIA. <GM-P>. MD 2.5 (GM).
17	18 54 17.2	3.786 N	63.280 E	10 G	5.0 4.4	0.9	65	CARLSBERG RIDGE
17	20 03 25.57	39.082 N	23.704 E	33 N		0.4	9	AEGEAN SEA
17	20 05 49.6	37.112 N	20.794 E	10 G	4.4	1.2	58	IONIAN SEA. MD 4.2 (ATH). ML 4.2 (ROM).
17	20 14 32.88	53.486 N	134.973 W	10 G	4.1		15	QUEEN CHARLOTTE ISLANDS REGION. <PGC>. ML 3.9 (PGC).
17	20 49 36.37	43.267 N	8.165 E	10 G		0.4	5	CORSICA
17	21 16 09.4	12.795 N	88 138 W	63 *	4.8	1.4	25	OFF COAST OF CENTRAL AMERICA. Felt (II) at San Salvador, El Salvador.
17	21 54 19.27	44.00 N	10.82 E	10 G		0.1	4	CENTRAL ITALY
17	21 56 33.18	61.452 N	140.015 W	10 G			32	SOUTHERN YUKON TERRITORY, CANADA. <PGC>. ML 4.1 (PGC), 3.5 (AEIC).
17	23 08 25.17	42.967 N	17.913 E	9		0.8	10	ADRIATIC SEA. ML 2.2 (TTG).
17	23 32 13.37	29.79 S	177.45 W	217 ?	3.9	1.6	6	KERMADEC ISLANDS
17	23 37 01.27	39.536 N	28 842 E	10		0.5	10	TURKEY. MD 2.9 (ISK).
17	23 41 48.9	35.177 S	179.744 E	33 N	5.2	1.6	23	OFF E. COAST OF N. ISLAND, N.Z. ML 5.0 (WEL)
17	23 49 06.77	15.972 N	97.896 W	33 N		0.9	8	NEAR COAST OF OAXACA, MEXICO
18	01 16 25.27	40.659 N	29.883 E	10 G		0.4	5	TURKEY. MD 2.5 (ISK).
18	01 41 54.08	63.030 N	151 051 W	123			46	CENTRAL ALASKA. <AEIC>.
18	03 54 21.38	37 608 N	118 843 W	4			21	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.0 (BRK), 3 4 (PAS). Felt at Mammoth Lakes, California.
o 18	04 42 44.9	8.131 N	94.247 E	33 N	4.0	1.2	10	NICOBAR ISLANDS REGION
o 18	04 54 46.9	8 122 S	121 760 E	32 D	5.4 5.0	1.2	81	FLORES ISLAND REGION. Slight damage in northern Flores.
18	05 06 29.07	41.59 N	22.83 E	10 G		1.4	5	YUGOSLAVIA
18	05 54 05.6	1.254 S	23 978 W	12 D	4.9	1.0	67	CENTRAL MID-ATLANTIC RIDGE
18	05 56 47.17	41.07 N	25 79 E	10 G		1.4	4	GREECE-BULGARIA BORDER REGION
18	06 40 21.8	47.817 N	113.754 W	5 G	3.5	0.5	32	MONTANA. ML 3.9 (BUT). 3.3 (GS) MD 3.8 (SEA).
18	07 33 58.9	43.194 N	146.464 E	33 N	4.1	1.0	7	KURIL ISLANDS
18	08 34 37.27	3.40 S	103.98 E	181 ?	4.7	0.7	13	SOUTHERN SUMATERA
18	08 38 30.47	30.95 S	177.48 E	33 N	4.0	1.2	10	NORTH OF NEW ZEALAND
18	08 55 58.27	37.49 N	16.43 E	10 G		0.7	5	IONIAN SEA
18	09 15 24.0	8.200 S	121 775 E	34 D	4.9 4.9	1.2	42	FLORES ISLAND REGION
o 18	09 50 36.7	8.224 N	94.112 E	27 D	5.4 5.0	1.1	102	NICOBAR ISLANDS REGION
o 18	11 56 30.6	44.888 N	22 407 E	12 G	5.7 5.5	1.2	436	ROMANIA. Ms 5.6 (BRK). ML 5.5 (TTG). At least 615 houses damaged (VIII) in the Orsova area. Landslides occurred in the epicentral area. Felt strongly in western Romania and (IV) in northwestern Bulgaria. Also felt in southeastern Hungary and in parts of Yugoslavia. Depth from broadband displacement seismograms.
18	12 03 37.6	8.418 N	94.472 E	76 ?	4.8	1.6	16	NICOBAR ISLANDS REGION
18	12 35 45.8	44.804 N	22.167 E	10 G		1.4	8	ROMANIA
18	12 43 18.2	19.476 S	70 166 W	86 *	4.5	1.2	17	NEAR COAST OF NORTHERN CHILE
18	13 24 59.9	30.363 N	94.870 E	33 N	5.0	1.0	68	TIBET
18	13 25 41.0	46.675 N	10.503 E	7		1.3	19	NORTHERN ITALY. MD 3.0 (TRI). ML 2.5 (VIE).
18	14 03 44.9	44.843 N	22 323 E	10 G		1.2	12	ROMANIA
o 18	14 28 53.5	13.233 N	144 125 E	104 D	5.4	1.0	84	MARIANA ISLANDS. Felt (III) on Guam.
18	15 13 55.5	45.487 N	21.059 E	10 G		1.4	5	ROMANIA
18	15 24 05.1	8 439 N	94.629 E	16 D	5.1	1.0	65	NICOBAR ISLANDS REGION
18	15 28 00.37	39.50 N	28.85 E	10 G		0.8	6	TURKEY. MD 2.9 (ISK).
18	15 38 41.8	26.338 S	27.206 E	5 G		1.6	8	REPUBLIC OF SOUTH AFRICA. mbLg 3.6 (BUL).
18	16 56 27.0	0.071 N	123.321 E	214 ?	4.6	1.3	9	MINAHASSA PENINSULA
18	17 02 11.6	44.766 N	22.530 E	10 G		1.5	8	ROMANIA
18	17 38 50.5	45.776 N	26 501 E	150 *	3.4	1.6	12	ROMANIA
18	17 45 43.5	30.362 N	94.667 E	33 N	4.2	1.7	13	TIBET
18	17 48 17.58	64.721 N	150 972 W	25 G			13	CENTRAL ALASKA. <AEIC>. ML 2.5 (AEIC).
18	18 03 23.98	59.331 N	151.578 W	49			52	KENAI PENINSULA, ALASKA. <AEIC>. ML 3.4 (AEIC), 3.4 (PMR).
18	18 48 56.4	39.711 N	25.642 E	10 G		1.0	7	AEGEAN SEA. MD 3.1 (ISK).
18	18 55 56.87	19.02 N	65.50 W	33 N		0.3	8	PUERTO RICO REGION
18	20 37 53.77	39.126 N	29.432 E	10 G		0.6	12	TURKEY. MD 3.1 (ISK).
18	20 40 05.5	36.077 N	27.187 E	106	4.7	1.2	148	DODECANESE ISLANDS. MD 4.4 (HLW), 4.2 (ISK).
18	21 07 06.2	45.195 N	151 056 E	33 N	4.5	1.1	19	KURIL ISLANDS
18	21 25 55.3	40.324 N	143.420 E	27	4.7	1.2	44	OFF EAST COAST OF HONSHU, JAPAN
18	21 51 05.7	44.843 N	22.289 E	10 G		0.8	8	ROMANIA
18	23 01 38.7	37.786 S	17.532 W	10 G	4.9 4.4	1.3	29	SOUTH ATLANTIC RIDGE
18	23 09 10.97	41.90 N	23.33 E	10 G		0.6	6	GREECE-BULGARIA BORDER REGION. MD 2.4 (THE).
19	00 26 35.37	18.85 N	66.68 W	33 N		0.5	6	PUERTO RICO REGION
19	00 38 11.6	18.155 N	94.933 W	33 N		1.5	8	GULF OF CAMPECHE
19	01 19 52.4	45.344 N	21.123 E	10 G	4.4	1.1	117	ROMANIA. MD 4.8 (TRI). ML 4.7 (ZAG), 4.4 (TTG). Felt (III) at Banloc. Also felt in Vojvodina and eastern Serbia, Yugoslavia.
o 19	01 27 32.0	45.312 N	21.053 E	10 G	5.3 4.9	1.2	250	ROMANIA. ML 5.3 (ZAG). MD 5.2 (TTG). Felt (V) at Banloc. Also felt in Vojvodina and eastern Serbia, Yugoslavia.

19	02 23 49.8*	45.329 N	20.966 E	10 G	1.0	9	YUGOSLAVIA	
19	02 41 36.8&	33.210 N	115.970 W	3		18	SOUTHERN CALIFORNIA. <PAS-P>. ML 4.0 (PAS). Felt (V) at Salton City and (III) at Palm Springs and White Water. Also Felt at Coachella.	
19	02 43 21.2?	45.27 N	21.11 E	10 G	1.5	8	ROMANIA. ML 3.8 (ZAG).	
19	04 01 28.3*	13.094 N	88.446 W	73	4.6	1.3	29	EL SALVADOR. Felt (III) at San Salvador.
19	04 44 40.3*	42.699 N	149.761 E	33 N	4.4	1.2	13	OFF COAST OF HOKKAIDO, JAPAN
19	04 48 36.6*	24.613 N	122.341 E	33 N	4.1	1.4	10	TAIWAN REGION ML 3.9 (BJI).
19	04 54 58.4%	43.081 N	0.764 W	10 G	0.3	7	7	PYRENEES. ML 1.3 (STR).
19	05 00 18.7*	45.579 N	26.649 E	132 ?	1.2	24	ROMANIA. Felt (II) in the Vrancea area.	
19	05 11 37.2%	40.133 N	29.151 E	10 G	1.1	8	TURKEY. MD 3.2 (ISK).	
19	05 24 20.1	45.315 N	21.104 E	10 G	1.0	13	ROMANIA. ML 2.9 (SKO).	
19	05 33 47.5&	59.490 N	152.632 W	73	3.7	77	SOUTHERN ALASKA <AEIC>.	
19	07 05 29.5	25.149 N	95.259 E	121 *	4.8	0.9	66	BURMA-INDIA BORDER REGION
19	07 45 13.2	46.359 N	12.606 E	10 G	1.0	7	7	NORTHERN ITALY. ML 2.3 (VIE). MD 2.2 (TRI).
19	08 06 33.2*	45.324 N	21.064 E	10 G	1.4	10	ROMANIA	
19	08 32 20.9?	9.52 N	122.48 E	79 ?	4.7	1.6	7	NEGROS, PHILIPPINE ISLANDS
19	08 49 20.8?	43.40 N	5.50 E	10 G	0.8	8	8	NEAR SOUTH COAST OF FRANCE ML 2.5 (LDG).
19	08 50 54.5%	43.070 N	0.576 W	5 G	0.6	7	7	PYRENEES ML 1.0 (STR)
19	09 13 05.4?	40.16 N	29.67 E	5 G	0.3	4	4	TURKEY. MD 2.7 (ISK).
19	09 16 38.4?	39.54 N	29.43 E	10 G	0.5	5	5	TURKEY. MD 2.8 (ISK).
19	09 45 26.8%	42.322 N	19.493 E	10 G	0.5	8	8	YUGOSLAVIA ML 1.8 (TTG).
19	09 52 23.5&	37.479 N	118.844 W	9		5	5	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 3.1 (GM).
19	10 08 07.2	42.004 N	24.731 E	10 G	0.5	10	10	BULGARIA. MD 2.9 (THE).
19	10 43 37.4%	16.715 N	99.720 W	17 *		0.4	7	NEAR COAST OF GUERRERO, MEXICO
19	11 02 16.5*	2.914 N	126.259 E	56 ?	5.0	1.5	19	MOLUCCA PASSAGE
19	11 20 04.2&	62.121 N	150.387 W	9		33	33	CENTRAL ALASKA. <AEIC>. ML 2.5 (AEIC).
19	12 01 45.5	40.522 N	26.452 E	10 G	1.2	17	17	TURKEY. MD 3.3 (ISK), 3.2 (ATH), 3.0 (THE).
19	12 09 06.4	40.480 N	26.425 E	10 G	1.4	9	9	TURKEY. MD 3.2 (ISK).
19	12 22 25.2?	42.46 N	23.39 E	10 G	0.8	6	6	BULGARIA
19	13 01 05.0&	60.451 N	153.704 W	12		27	27	SOUTHERN ALASKA. <AEIC> ML 2.8 (AEIC).
19	14 28 27.3?	39.29 N	28.89 E	10 G	0.1	4	4	TURKEY. MD 3.0 (ISK).
19	15 42 21.6	44.769 N	22.354 E	10 G	1.4	9	9	ROMANIA
19	15 47 57.8%	11.224 N	61.036 W	33 N	0.8	12	12	WINDWARD ISLANDS. MD 3.4 (TRN).
19	16 19 27.5	44.724 N	22.491 E	10 G	1.3	9	9	ROMANIA
19	16 28 35.6	36.295 N	141.288 E	33 N	4.7	1.2	21	NEAR EAST COAST OF HONSHU, JAPAN
19	17 30 39.6?	40.74 N	30.21 E	10 G	0.3	5	5	TURKEY. MD 2.6 (ISK).
19	18 23 32.0?	17.96 N	97.17 W	33 N	0.7	4	4	OAXACA, MEXICO
19	18 42 14.9*	23.608 N	121.540 E	10 G	4.0	1.5	11	TAIWAN. ML 4.2 (BJI)
19	19 49 00.3*	0.485 S	119.928 E	38 ?	4.4	1.4	20	MINAHASSA PENINSULA
19	20 06 45.2?	15.19 N	94.98 W	33 N	1.2	5	5	NEAR COAST OF OAXACA, MEXICO
19	21 15 46.7%	17.143 N	95.615 W	33 N	0.6	6	6	OAXACA, MEXICO
19	21 31 50.1	14.913 S	167.288 E	88 O	4.9	1.2	111	VANUATU ISLANDS
19	21 33 22.6?	14.68 N	94.36 W	33 N	4.3	1.6	11	OFF COAST OF CHIAPAS, MEXICO
19	21 37 13.7%	38.922 N	16.278 E	10 G	1.1	9	9	SOUTHERN ITALY
19	21 38 33.6*	13.637 N	86.995 W	56 *	4.4	0.9	26	NICARAGUA
19	23 07 53.7	0.948 N	123.708 E	28 D	4.6 4.0	1.1	19	MINAHASSA PENINSULA
19	23 26 11.1?	43.57 N	12.59 E	10 G	0.9	4	4	CENTRAL ITALY
19	23 42 44.5%	43.646 N	10.884 E	10 G	0.2	5	5	CENTRAL ITALY
20	00 03 35.9	28.650 S	69.652 W	90	5.0	1.1	46	CHILE-ARGENTINA BORDER REGION
20	00 37 57.1	40.363 N	26.200 E	10 G	0.9	15	15	TURKEY. MD 3.4 (ISK), 3.1 (ATH).
20	01 21 17.5&	59.451 N	151.180 W	39		55	55	KENAI PENINSULA, ALASKA. <AEIC>. ML 3.3 (AEIC), 3.2 (PMR).
20	02 44 57.4&	60.263 N	151.061 W	61		63	63	KENAI PENINSULA, ALASKA. <AEIC>.
20	03 18 20.3*	6.166 S	149.184 E	71 *	5.2	1.3	14	NEW BRITAIN REGION
20	03 36 29.8	45.375 N	21.240 E	10 G	3.8	1.2	51	ROMANIA. ML 4.1 (ZAG), 3.7 (TTG).
20	03 56 02.3&	61.546 N	151.887 W	102	3.8		67	SOUTHERN ALASKA. <AEIC>.
20	03 57 37.4*	36.982 N	3.215 W	10 G		0.7	5	STRAIT OF GIBALTAR
20	03 58 47.4	45.346 N	21.108 E	10 G	4.1	1.0	40	ROMANIA. ML 4.0 (ZAG), 3.6 (TTG).
20	05 09 24.0?	45.37 N	20.96 E	10 G		0.5	4	YUGOSLAVIA
20	05 13 36.2%	12.012 N	62.036 W	135 ?		0.3	9	WINDWARD ISLANDS. MD 3.3.(TRN).
20	07 12 23.9?	61.64 N	4.20 E	10 G		0.8	4	SOUTHERN NORWAY. MD 1.2 (BER).
20	07 50 41.7%	39.866 N	28.767 E	5 G		0.5	13	TURKEY. MD 2.9 (ISK).
20	07 51 06.4*	18.010 S	167.486 E	33 N	4.7	1.4	24	VANUATU ISLANDS
20	07 52 07.9%	44.167 N	10.623 E	10 G		0.3	5	NORTHERN ITALY
20	08 05 06.4&	60.836 N	151.125 W	61			40	KENAI PENINSULA, ALASKA. <AEIC>.
20	08 38 00.6?	43.11 N	128.13 W	10 G		0.4	46	OFF COAST OF OREGON
20	09 37 48.7%	39.088 N	27.879 E	10 G		0.1	5	TURKEY. MD 2.8 (ISK).
20	10 02 57.5%	40.174 N	29.667 E	10 G		0.9	5	TURKEY. MD 2.7 (ISK).
20	11 45 34.1	0.430 S	122.937 E	117 *	4.7	1.5	36	MINAHASSA PENINSULA
o 20	11 48 47.1	54.565 N	161.654 W	33 D	5.8 5.5	1.2	426	ALASKA PENINSULA. ML 5.8 (PMR). Ms 5.6 (BRK). Mo=1.0*10**18 Nm (PPT). Felt (IV) at Cold Bay, King Cove and Sand Point.
20	12 20 10.3?	9.80 S	124.60 E	33 N	4.2	1.6	7	TIMOR
20	12 55 53.7?	45.12 N	2.91 E	10 G		1.2	4	FRANCE. ML 1.9 (LDG).
20	13 34 49.5%	39.901 N	28.333 E	5 G		0.4	10	TURKEY. MD 3.1 (ISK).
20	13 57 53.5%	45.994 N	2.769 E	10 G		0.8	12	FRANCE. ML 2.4 (LDG).
20	15 21 08.8%	0.703 S	78.148 W	33 N		1.6	8	ECUADOR. MD 4.0 (QUI).
20	15 22 51.1*	37.959 N	21.082 E	48 *	3.7	1.6	10	SOUTHERN GREECE. MD 3.5 (ATH).
20	15 43 18.7?	6.63 S	147.24 E	57 ?	4.2	0.4	5	EAST PAPUA NEW GUINEA REGION
20	15 52 50.6%	16.891 N	99.479 W	10 G		1.2	10	NEAR COAST OF GUERRERO, MEXICO
20	17 42 07.7*	24.626 N	120.742 E	33 N	4.3	1.6	9	TAIWAN
20	18 41 16.1%	43.779 N	10.276 E	10 G		0.3	5	CENTRAL ITALY
20	18 52 23.9	30.298 N	94.741 E	33 N	4.5	0.9	18	TIBET
20	19 02 30.6	30.326 N	94.838 E	24	4.8	1.2	65	TIBET
20	19 09 29.1?	0.32 N	78.51 W	10 G		0.4	6	COLOMBIA-ECUADOR BORDER REGION
20	19 18 34.3&	62.993 N	151.065 W	118			54	CENTRAL ALASKA. <AEIC>.
20	19 35 19.5	51.436 N	177.188 W	33 N	4.8 4.5	0.9	37	ANDREANOF ISLANDS, ALEUTIAN IS. Felt (IV) on Adak.
20	19 58 38.4?	1.89 N	123.27 E	33 N	4.8	0.5	7	MINAHASSA PENINSULA
20	20 39 16.4&	37.050 N	121.828 W	4			11	CENTRAL CALIFORNIA. <BRK>. ML 2.6 (BRK).
20	20 59 09.0*	7.149 S	129.827 E	109 ?	4.4	1.2	10	BANDA SEA
20	21 11 41.8?	37.25 N	20.75 E	10 G		1.2	5	IONIAN SEA. MD 3.1 (ATH).
20	21 25 15.2?	5.57 S	146.14 E	137 *	4.3	1.1	8	EAST PAPUA NEW GUINEA REGION

20	21	37	32.9	45.264	N	20.955	E	10	G	0.8	7	YUGOSLAVIA		
20	21	41	04.8&	38.413	N	122.647	W	7			17	NORTHERN CALIFORNIA. <BRK>. ML 3.8 (BRK). Mo=4.5+10**14 Nm (BRK). Felt sharply at Santa Rosa.		
20	23	18	59.4	40.715	N	19.874	E	10	G	0.6	7	ALBANIA. MD 3.1 (ATH).		
20	23	31	36.0?	17.85	N	76.73	W	10	G	0.4	4	JAMAICA REGION. MD 2.4 (HOJ).		
20	23	38	19.2?	28.91	N	98.04	W	10	G	0.1	6	SOUTHERN TEXAS. mbLg 3.6 (GS). 3.4 (TUL). Felt (IV) at Falls City and Hobson.		
21	01	56	35.9	35.803	N	21.869	E	36	4.0	0.9	57	MEDITERRANEAN SEA. MD 3.9 (ATH).		
21	02	20	36.2	44.291	N	114.988	W	5	G	0.3	10	WESTERN IDAHO ML 3.1 (BUT).		
21	03	28	56.1	49.094	N	154.951	E	72	D	4.5	0.7	44	KURIL ISLANDS	
21	03	50	09.1	42.804	N	147.005	E	33	N	4.5	1.0	37	OFF COAST OF HOKKAIDO, JAPAN	
21	04	14	52.1?	36.49	S	17.49	W	10	G	4.1	1.2	9	SOUTH ATLANTIC RIDGE	
21	05	50	48.9	37.115	N	20.955	E	62	*	3.6	1.0	38	IONIAN SEA. MD 4.1 (ATH).	
21	07	12	19.5*	19.171	N	65.390	W	33	N		0.3	8	PUERTO RICO REGION	
21	10	15	36.0	25.039	N	142.691	E	33	N	4.9	4.2	1.2	35	VOLCANO ISLANDS REGION
21	11	35	20.6%	39.340	N	29.011	E	10	G		0.6	11	TURKEY. MD 3.4 (ISK).	
21	12	27	57.5*	28.652	N	66.578	E	33	N	4.2	0.8	6	PAKISTAN	
21	12	33	44.3*	5.186	S	102.753	E	98	*	4.9	0.8	27	SOUTHERN SUMATERA	
21	14	20	28.4	43.226	N	146.980	E	58	D	4.7	0.9	97	KURIL ISLANDS Felt (IV) on Shikotan and (III) at Yuzhno-Kurilsk.	
21	14	28	20.3	5.217	S	102.645	E	42	D	5.1	4.5	1.0	51	SOUTHERN SUMATERA
21	14	38	47.7	8.099	N	37.982	W	10	G	4.9	4.5	0.8	102	CENTRAL MID-ATLANTIC RIDGE
21	15	03	56.7	39.595	N	20.989	E	27		4.1	1.1	74	GREECE-ALBANIA BORDER REGION. ML 4.4 (ATH). 4.0 (TTG).	
21	15	20	36.7&	62.914	N	149.610	W	85				38	CENTRAL ALASKA. <AEIC>.	
21	16	07	09.5&	56.327	N	155.892	W	92	3.4			36	ALASKA PENINSULA. <AEIC>.	
21	16	11	35.5?	4.57	S	133.44	E	33	N	4.6	0.8	5	WEST IRIAN REGION	
21	16	42	23.8%	42.797	N	12.911	E	10	G		1.0	6	CENTRAL ITALY	
21	17	02	49.0*	43.217	N	147.598	E	33	N	4.9	0.9	18	KURIL ISLANDS	
21	17	30	26.6&	60.364	N	152.446	W	96				58	SOUTHERN ALASKA. <AEIC>.	
21	17	51	22.4?	41.09	N	29.37	E	10	G		0.4	4	TURKEY. MD 2.5 (ISK).	
21	17	56	20.8*	37.689	N	21.366	E	33	N	3.6	1.3	13	SOUTHERN GREECE. ML 3.4 (ATH).	
21	18	04	38.3&	65.565	N	149.974	W	31				14	ALASKA. <AEIC>. ML 2.6 (AEIC).	
21	19	46	25.8&	57.930	N	142.906	W	10	G			14	GULF OF ALASKA. <AEIC>. ML 2.7 (AEIC).	
21	19	55	15.5*	36.755	N	23.025	E	33	N	3.4	0.5	6	SOUTHERN GREECE. MD 3.3 (ATH).	
21	20	10	07.8?	36.71	N	23.09	E	33	N		0.6	4	SOUTHERN GREECE. MD 3.3 (ATH).	
21	20	16	50.4	36.882	N	45.118	E	33	N	4.3	1.1	25	IRAN-IRAQ BORDER REGION	
21	20	27	18.3&	59.609	N	153.649	W	135				46	SOUTHERN ALASKA. <AEIC>.	
21	21	33	48.2	37.407	N	22.535	E	69	*	3.7	0.9	22	SOUTHERN GREECE. MD 3.3 (ATH).	
21	21	44	50.1?	28.03	N	144.50	E	33	N	4.8	1.4	6	BONIN ISLANDS REGION	
21	22	50	45.8?	51.27	N	15.92	E	10	G		0.7	6	POLAND	
o 21	22	59	09.6	3.008	N	128.434	E	34	D	5.9	5.2	1.0	219	NORTH OF HALMAHERA. Mo=1.0+10**18 Nm (PPT).
21	23	23	25.4&	56.509	N	157.713	W	70	3.3			46	ALASKA PENINSULA. <AEIC>.	
22	00	22	21.9&	57.956	N	142.285	W	10	G			4	GULF OF ALASKA <AEIC> ML 2.9 (AEIC).	
22	00	47	46.0?	3.29	N	122.53	E	566	?	5.0	1.1	13	CELEBES SEA	
22	00	49	49.5	39.331	N	27.875	E	9	4.0		1.0	81	TURKEY. MD 4.3 (ISK). 4.3 (ATH).	
22	00	50	14.5*	7.353	S	145.998	E	178	*	4.7	0.7	13	NEAR S COAST OF PAPUA NEW GUINEA	
22	00	54	34.0%	39.338	N	27.908	E	10	G		0.5	7	TURKEY. MD 3.1 (ISK).	
22	01	00	58.6%	39.297	N	27.796	E	10	G		0.3	5	TURKEY. MD 2.8 (ISK).	
22	01	12	51.6*	45.469	N	21.088	E	10	G		0.9	5	ROMANIA. MG 3.2 (BEO).	
22	01	42	31.4	46.649	N	10.496	E	5	G		0.9	9	NORTHERN ITALY. ML 1.9 (VIE).	
22	02	05	20.5*	18.989	S	67.987	W	219	*	4.3	1.1	9	BOLIVIA	
22	02	12	04.1%	39.297	N	27.796	E	10	G		0.3	5	TURKEY. MD 2.5 (ISK).	
22	02	13	01.9%	39.326	N	27.790	E	10	G		0.5	8	TURKEY. MD 3.1 (ISK).	
22	03	07	45.2%	39.827	N	23.447	E	10	G		0.3	8	AEGEAN SEA	
22	04	09	04.0*	16.997	S	172.800	W	33	N	4.9	1.2	8	SAMOA ISLANDS REGION	
22	04	49	03.5*	35.215	N	31.895	E	33	N		1.4	7	CYPRUS. MD 4.0 (HLW).	
22	05	00	02.4%	39.279	N	27.803	E	10	G		0.3	6	TURKEY. MD 2.9 (ISK).	
22	06	17	37.3%	39.289	N	27.956	E	10	G		0.3	6	TURKEY. MD 3.1 (ISK).	
22	06	19	59.7%	39.031	N	27.557	E	10	G		0.4	8	TURKEY. MD 3.3 (ISK).	
22	06	32	35.9*	67.734	N	162.913	W	33	N		0.9	8	ALASKA. ML 3.5 (PMR).	
22	07	13	37.2	12.710	N	123.376	E	23	D	4.7	4.1	1.1	30	LUZON, PHILIPPINE ISLANDS
22	07	48	22.3&	61.694	N	149.684	W	29				47	SOUTHERN ALASKA. <AEIC>. ML 2.5 (AEIC). 2.8 (PMR).	
22	08	36	03.5?	41.00	S	90.85	W	10	G	5.1	1.0	8	WEST CHILE RISE	
22	08	55	32.3?	41.70	N	22.85	E	10	G		0.6	6	YUGOSLAVIA	
22	09	04	38.5&	45.638	N	122.869	W	20				106	WASHINGTON-OREGON BORDER REGION. <SEA>. MD 3.5 (SEA). Felt (IV) at Hillsboro, Oregon and (III) at Banks, Cornelius and Portland, Oregon. Also felt (III) at La Center and Vancouver, Washington.	
22	09	11	46.8&	45.637	N	122.867	W	17				53	WASHINGTON-OREGON BORDER REGION. <SEA>. MD 2.2 (SEA). Felt at Portland, Oregon.	
22	10	38	22.5%	40.277	N	29.672	E	10	G		0.4	5	TURKEY	
22	10	48	14.2%	40.539	N	29.102	E	10	G		0.5	5	TURKEY MD 2.4 (ISK).	
22	11	58	55.8	24.881	N	99.186	E	33	N	4.8	4.4	1.1	36	YUNNAN PROVINCE, CHINA. ML 5.1 (BJI).
22	13	03	13.5%	39.289	N	27.934	E	10	G		0.9	5	TURKEY. MD 2.8 (ISK).	
22	13	03	39.9	36.507	N	71.313	E	120	*	4.6	0.6	17	AFGHANISTAN-USSR BORDER REGION	
22	13	24	45.7*	37.311	N	21.052	E	33	N		1.3	10	SOUTHERN GREECE. MD 3.4 (ATH).	
22	13	44	13.6?	41.05	N	27.85	E	10	G		1.3	5	TURKEY	
22	14	13	15.1	40.701	N	52.065	E	33	N	4.7	3.5	0.9	84	TURKMEN SSR
22	14	36	21.1?	33.92	N	56.41	E	33	N	4.0	1.3	5	IRAN	
22	14	37	17.4	26.283	S	27.214	E	5	G		1.0	9	REPUBLIC OF SOUTH AFRICA. mbLg 3.4 (BUL).	
22	15	45	14.8	45.457	N	21.076	E	19			0.9	14	ROMANIA	
22	16	07	17.6&	60.490	N	151.661	W	63				62	KENAI PENINSULA, ALASKA. <AEIC>.	
22	17	05	34.3?	12.90	S	73.26	W	33	N		1.2	6	PERU	
22	17	12	50.2	23.454	N	142.922	E	33	N	5.0	4.0	1.1	47	VOLCANO ISLANDS REGION
22	17	31	19.7?	4.24	S	149.22	E	103	?	4.4	0.2	5	BISMARCK SEA	
22	18	02	25.9%	44.172	N	11.704	E	10	G		0.6	6	NORTHERN ITALY	
22	18	38	56.0%	45.280	N	21.031	E	33	N		0.7	5	ROMANIA	
22	19	51	10.1%	39.297	N	27.885	E	10	G		1.0	5	TURKEY. MD 2.6 (ISK).	
22	19	51	55.5	39.614	N	25.540	E	10	G		1.1	11	AEGEAN SEA. MD 3.2 (ISK).	
22	20	50	47.0	15.530	N	92.229	W	128		4.7	0.9	73	MEXICO-GUATEMALA BORDER REGION	
22	21	15	01.1*	21.992	S	68.704	W	138	*	4.2	1.5	11	CHILE-BOLIVIA BORDER REGION	
22	21	16	04.8	44.470	N	11.377	E	11			0.9	18	NORTHERN ITALY. ML 2.7 (LDG).	
22	21	52	07.4	39.096	N	22.120	E	15			0.6	14	GREECE MD 3.1 (ATH).	

22	22 20 35.8?	48.64 N	1.85 W	10 G	0.5	4	FRANCE. ML 2.0 (LDG).
22	23 46 19.7?	32.33 S	179.83 E	305 ?	1.3	17	SOUTH OF KERMADEC ISLANDS
23	01 02 26.1	26.833 S	26.727 E	5 G	1.2	7	REPUBLIC OF SOUTH AFRICA. mbLg 3.5 (BUL).
23	01 45 44.1	9.322 N	83.696 W	64 *	1.2	95	COSTA RICA. Felt in Costa Rica and in Bocos del Toro Province, Panama.
23	02 30 51.6?	43.789 N	10.553 E	5 G	1.0	5	CENTRAL ITALY
23	03 13 11.0?	16.79 N	102.07 W	33 N	1.5	6	OFF COAST OF GUERRERO, MEXICO
23	04 19 00.9?	39.246 N	28.098 E	10 G	0.4	6	TURKEY. MD 3.1 (ISK).
23	04 34 32.6?	38.872 N	122.917 W	5 G	19		NORTHERN CALIFORNIA. <BRK>. ML 3.7 (BRK). Mo=4.7+10**14 Nm (BRK).
23	05 27 17.2?	24.12 S	66.85 W	180 G	1.2	6	SALTA PROVINCE, ARGENTINA
23	05 42 49.7?	37.77 N	29.33 E	10 G	1.0	4	TURKEY. MD 3.1 (ISK)
23	06 26 28.0?	60.553 N	5.037 E	10 G	0.3	10	SOUTHERN NORWAY. MD 1.4 (BER).
23	06 44 49.3?	43.69 N	10.78 E	10 G	0.5	4	CENTRAL ITALY
23	07 15 34.9?	63.291 N	151.577 W	15	47		CENTRAL ALASKA. <AEIC>. ML 3.0 (AEIC). 3.7 (PMR).
23	08 40 46.0	42.541 N	13.139 E	7	1.0	45	CENTRAL ITALY. MD 4.1 (TRI). ML 3.9 (ZAG).
23	08 43 36.5?	39.817 N	23.381 E	10 G	0.4	5	AEGEAN SEA
23	09 41 17.4?	42.497 N	13.133 E	10 G	1.0	5	CENTRAL ITALY
23	09 48 11.3?	42.535 N	13.105 E	10 G	0.7	7	CENTRAL ITALY
23	10 09 42.7?	31.26 S	69.47 W	169 ?	0.7	10	SAN JUAN PROVINCE, ARGENTINA
23	10 14 42.6?	45.554 N	17.012 E	10 G	1.3	12	YUGOSLAVIA. ML 3.0 (ZAG).
23	11 10 54.2	41.281 N	23.653 E	13	0.7	17	GREECE-BULGARIA BORDER REGION. ML 2.2 (SKO).
o 23	11 22 10.0	5.826 N	125.983 E	147 D	1.1	161	MINDANAO, PHILIPPINE ISLANDS
23	11 34 31.5?	60.181 N	153.210 W	141	30		SOUTHERN ALASKA. <AEIC>.
23	11 55 31.5	41.800 N	22.851 E	10 G	0.9	17	YUGOSLAVIA. ML 2.8 (SKO).
23	12 19 50.8	20.938 S	178.444 W	564	0.9	80	FIJI ISLANDS REGION
23	13 09 40.3?	32.36 S	71.73 W	10 G	0.4	9	NEAR COAST OF CENTRAL CHILE
23	13 17 41.9?	22.126 S	66.918 W	230 G	0.2	5	JUJUY PROVINCE, ARGENTINA
o 23	13 25 47.3	3.775 N	95.932 E	47 G	0.9	402	OFF W COAST OF NORTHERN SUMATERA. Felt in the Bonda Aceh area. Depth from broadband displacement seismograms.
23	13 30 01.6	39.874 N	23.361 E	10 G	0.6	18	AEGEAN SEA. MD 3.3 (ATH).
23	13 33 39.0?	40.92 N	29.58 E	10 G	0.5	5	TURKEY. MD 2.7 (ISK).
23	13 55 26.0?	63.002 N	150.464 W	106	43		CENTRAL ALASKA. <AEIC>.
23	14 01 25.6?	44.374 N	7.387 E	10 G	0.4	6	NORTHERN ITALY. ML 1.7 (GEN).
23	14 14 18.4?	42.499 N	13.136 E	10 G	1.2	5	CENTRAL ITALY
23	14 53 47.3?	36.547 N	140.589 E	112 *	0.6	12	NEAR EAST COAST OF HONSHU, JAPAN
23	16 04 36.3?	31.77 S	71.64 W	33 N	0.4	7	NEAR COAST OF CENTRAL CHILE
23	16 15 32.8?	67.77 N	162.11 W	33 N	1.8	5	ALASKA
23	16 21 32.3?	40.32 N	29.45 E	10 G	0.3	4	TURKEY. MD 2.8 (ISK).
23	16 49 47.5?	39.391 N	27.574 E	10 G	0.9	5	TURKEY. MD 2.6 (ISK)
23	16 51 54.0	30.269 N	94.820 E	33 N	1.1	45	TIBET
23	17 22 32.2?	46.507 N	2.949 E	10 G	0.6	12	FRANCE. ML 2.9 (LDG).
23	17 34 43.1?	37.169 N	15.286 E	10 G	0.7	5	SICILY
23	17 40 14.3?	46.523 N	2.949 E	10 G	0.5	11	FRANCE. ML 2.9 (LDG).
23	17 41 45.8?	42.239 S	42.382 E	10 G	0.8	16	PRINCE EDWARD ISLANDS REGION
23	17 45 44.9	34.772 N	26.095 E	25	1.3	137	CRETE. ML 4.5 (ATH).
23	18 25 30.9?	16.968 N	94.138 W	30 *	0.7	7	OAXACA, MEXICO
o 23	19 44 50.2	15.679 S	71.574 W	5 G	1.3	51	SOUTHERN PERU. At least 12 people killed, 30 injured and about 80 missing in the Moca-Chivay area. Felt (V) at Moca, Yanque, Ichupampa and Achoma. Felt (II) at Arequipa. Landslides occurred in the epicentral area.
23	20 16 58.6	51.635 N	7.680 E	10 G	0.8	9	GERMANY. ML 2.4 (BNS).
23	20 23 12.8?	35.063 N	28.854 E	10 G	0.7	6	EASTERN MEDITERRANEAN SEA
23	21 07 33.0?	42.499 N	13.095 E	5 G	1.2	5	CENTRAL ITALY
o 23	21 16 32.1	6.122 S	130.227 E	109 D	0.9	136	BANDA SEA
23	21 16 43.3	24.766 S	179.592 W	467	1.1	94	SOUTH OF FIJI ISLANDS
23	21 58 13.4?	23.820 N	97.447 E	52 *	0.9	8	BURMA-CHINA BORDER REGION
23	22 16 18.9?	42.992 N	13.412 E	10 G	0.9	7	CENTRAL ITALY
23	22 22 35.0?	39.598 N	15.122 E	10 G	0.5	9	SOUTHERN ITALY
23	22 34 27.9?	67.91 N	20.34 E	10 G	0.1	4	SWEDEN. MD 2.2 (BER).
23	22 37 27.4?	41.43 N	24.06 E	10 G	0.8	4	GREECE-BULGARIA BORDER REGION
23	23 34 24.5?	0.694 S	78.696 W	11 *	0.5	8	ECUADOR
24	00 26 01.8?	36.857 N	122.183 W	5	11		CENTRAL CALIFORNIA. <BRK>. ML 2.8 (BRK).
24	00 57 21.2	29.817 S	71.315 W	76 *	1.1	26	NEAR COAST OF CENTRAL CHILE. Felt (IV) at Coquimba, La Serena, Ovalle and Combaria, (III) at Vicuna and (II) at Illapel.
24	01 15 44.8?	43.118 N	13.283 E	10 G	1.3	5	CENTRAL ITALY
24	02 44 44.0	44.813 N	6.750 E	7	0.6	14	FRANCE. ML 2.5 (GEN). 2.3 (LDG).
24	03 10 10.7?	51.50 N	16.06 E	10 G	0.7	9	POLAND. ML 3.5 (VKA). 3.4 (GRF).
24	03 10 41.1	52.150 N	162.243 E	33 N	0.8	106	OFF EAST COAST OF KAMCHATKA
24	03 17 45.6?	51.57 N	16.17 E	10 G	0.7	9	POLAND. ML 3.5 (VKA). 3.5 (GRF).
o 24	03 27 51.5	16.028 S	73.657 W	56 D	1.2	88	NEAR COAST OF PERU. Felt (III) at Arequipa.
24	05 06 15.4	41.889 N	21.060 E	10 G	0.8	20	YUGOSLAVIA. ML 3.2 (SKO). 3.0 (TTG). Felt (IV) at Gostivar.
24	05 23 34.5?	41.24 N	21.10 E	5 G	0.3	4	YUGOSLAVIA
24	05 47 06.8?	60.091 N	139.150 W	10	11		SOUTHEASTERN ALASKA. <AEIC>. ML 2.6 (AEIC).
24	05 50 46.1?	32.00 S	67.53 W	33 N	1.5	9	SAN JUAN PROVINCE, ARGENTINA
24	05 56 43.6?	46.975 N	0.247 E	10 G	0.8	11	FRANCE. ML 2.5 (LDG).
24	06 06 44.5	30.302 N	94.785 E	33 N	1.1	41	TIBET
24	06 19 32.3?	61.715 N	151.169 W	76	44		SOUTHERN ALASKA. <AEIC>.
24	06 22 35.1?	47.071 N	0.402 E	10 G	1.2	10	FRANCE. ML 3.0 (LDG).
24	06 42 31.9?	60.742 N	146.708 W	15	40		SOUTHERN ALASKA. <AEIC>. ML 2.5 (AEIC).
24	06 43 58.7?	40.410 N	23.300 E	10 G	0.4	8	GREECE. ML 1.7 (THE).
24	07 06 56.4?	63.240 N	151.471 W	11	44		CENTRAL ALASKA. <AEIC>. ML 2.8 (AEIC).
24	09 26 58.6?	21.499 N	93.719 E	33 N	1.3	12	BURMA
o 24	09 36 37.3	32.229 N	138.766 E	245 D	0.9	173	SOUTH OF HONSHU, JAPAN
o 24	09 45 41.8	36.520 N	44.066 E	26 D	1.1	273	IRAN-IRAQ BORDER REGION. At least 20 people killed, many injured; at least 100 houses destroyed and many damaged in the Arbil-Dibs area, Iraq. Felt at Mahabad and Pironshohr, Iran.
24	10 08 36.6	36.615 N	43.968 E	33 N	1.0	37	IRAQ
24	10 10 28.2?	11.87 N	89.40 W	10 G	1.1	7	OFF COAST OF CENTRAL AMERICA. Felt (II) at San

24	10 38 37.8%	33.301 S	70 976 W	79 ?	0.1	8	Salvador, El Salvador.
24	11 07 03 1*	40.273 N	21.919 E	10 G	0.9	5	CHILE-ARGENTINA BORDER REGION
24	11 20 57.7%	42.633 N	19.072 E	10 G	0.5	6	GREECE. MD 2.8 (THE).
24	11 21 30 0?	12 74 N	89.13 W	10 G	0.4	7	YUGOSLAVIA. ML 1.2 (TTG)
							OFF COAST OF CENTRAL AMERICA. Felt (II) at Son Salvador, El Salvador.
24	11 23 42.8%	44.252 N	10.831 E	10 G	0.6	6	NORTHERN ITALY
24	11 29 07 4%	41.900 N	13.127 E	10 G	0.6	5	SOUTHERN ITALY
24	11 59 45.3%	32.983 N	36.048 E	10 G	0.4	7	DEAD SEA REGION
24	11 59 50 3?	7.25 S	129.56 E	114 ?	4.6	1.8	6 BANDA SEA
24	13 26 06 3%	62.018 N	149.332 W	41		40	CENTRAL ALASKA <AEIC>. ML 2.5 (AEIC)
24	13 32 34.0?	44.31 N	7.47 E	10 G	0.3	4	NORTHERN ITALY. ML 2.0 (GEN).
a 24	13 54 52.0	18.274 S	34.856 E	32 D	5.2 4.7	0.9	129 MOZAMBIQUE Felt (III) in Manica Province. Also felt in Manicbland Province and at Horore, Zimbabwe.
24	13 55 55 2?	44.40 N	7.41 E	10 G		0.1	4 NORTHERN ITALY ML 1.8 (GEN).
24	15 24 40 0	43.074 N	78.168 E	10 G	4.4 5.1	0.4	15 ALMA-ATA REGION
24	15 54 59 9	44.404 N	8.301 E	5 G		0.3	10 NORTHERN ITALY. ML 2.2 (GEN).
24	16 46 44 3%	40 353 N	123.770 W	6		8	NORTHERN CALIFORNIA <BRK> ML 3.4 (BRK) Felt (III) at Rio Dell
24	18 37 01.5	36.584 N	43.937 E	33 N	4.6	1.2	35 IRAQ
24	19 35 58.8	22.230 N	94.370 E	88	4.5	1.0	25 BURMA
24	19 37 47.1?	20.88 S	174.94 E	33 N	4.1	0.7	8 VANUATU ISLANDS REGION
24	21 39 32 2?	44.53 N	8.70 E	10 G		0.2	5 NORTHERN ITALY
24	22 10 36.3*	41.284 N	20.992 E	5 G		0.4	7 ALBANIA. ML 2.6 (SKO). MD 2.5 (THE).
24	22 33 30.1	41.305 N	21.008 E	5 G		0.9	25 YUGOSLAVIA. ML 3.0 (TTG). MD 2.9 (THE). Felt (IV) at Ohrid and Kiceva
25	00 10 08.2%	45.143 N	2.762 E	5 G		0.7	8 FRANCE. ML 2.2 (LDG).
25	00 17 34 8	51.556 N	7.020 E	10 G		1 2	29 GERMANY. ML 3.0 (LDG) MD 2.8 (UCC). Felt in the Recklinghausen area.
25	00 41 33.1?	10 47 N	61.55 W	33 N		0.3	4 TRINIDAD. MD 2.7 (TRN)
25	01 29 46.9%	60.134 N	140.613 W	0		23	SOUTHEASTERN ALASKA. <AEIC> ML 3.4 (AEIC). 3.5 (PGC).
25	01 46 46 0%	47.458 N	122.608 W	25		100	WASHINGTON. <SEA>. ML 3.3 (SEA). Felt (IV) at Bremerton, Gig Harbor, Paulsbo and Vashon. Felt (III) at Belfair, Burley, Dockton, Manchester, Normandy Park, Port Orchard, Silverdale, South Colby and Tracyton.
25	01 52 45 2	30 317 N	94.791 E	33 N	4.8	1.2	40 TIBET
25	03 20 06 6	41.322 N	21.096 E	5 G		0.7	28 YUGOSLAVIA. MD 3.4 (ATH). 2.9 (THE). ML 3.0 (TTG). Felt (IV) at Ohrid and Kiceva.
25	03 38 45 0%	40.296 N	29.346 E	10 G		0.2	6 TURKEY
25	04 13 08 0*	36.549 N	70.972 E	194 ?	4.0	0.9	13 HINDU KUSH REGION
25	04 27 19.3%	41 844 N	13 030 E	10 G		1.0	7 SOUTHERN ITALY
25	04 37 09.7?	6.89 S	11.64 W	10 G	4.6	0.8	12 ASCENSION ISLAND REGION
25	04 41 10.2	49.159 N	6.906 E	10 G		0.7	14 GERMANY. ML 2.7 (STR). MD 2.7 (UCC).
25	05 05 42.9	38 996 N	30.437 E	10 G		0.4	12 TURKEY. MD 3.3 (ISK).
25	05 09 26.7*	18.062 S	34.627 E	10 G	4.1	1 2	5 MOZAMBIQUE
25	06 47 19.0	43.104 N	0.342 W	5 G		0.7	11 PYRENEES. ML 3.0 (LDG).
25	08 00 52.6*	51.202 S	138.650 E	10 G	4.8	1.2	13 SOUTH OF AUSTRALIA
25	08 26 24.7	43.124 N	31.303 E	10 G	4.6	0.8	51 BLACK SEA. MD 4.2 (ATH).
25	08 51 09.4?	40.58 N	23.01 E	10 G		0.0	4 GREECE
25	08 56 06.5	44.063 N	6.355 E	10 G		0.6	8 FRANCE. ML 2.4 (LDG).
25	09 11 15.7%	40.065 N	27.371 E	10 G		0.9	5 TURKEY. MD 3.2 (ISK).
25	09 22 24.6*	20.017 S	133.834 E	5 G		1.5	5 NORTHERN TERRITORY, AUSTRALIA
25	10 22 12.0?	14.25 N	92.77 W	78 ?	4.2	0.7	6 NEAR COAST OF CHIAPAS, MEXICO
25	10 55 22.4%	1.016 S	77.974 W	33 N		0.6	8 ECUADOR
25	12 25 00.4	5.763 S	130.758 E	33 N	5.2	0.9	46 BANDA SEA
25	12 30 58.8%	60.170 N	152.250 W	99		67	SOUTHERN ALASKA. <AEIC>.
25	12 40 40.1	44.090 N	7.203 E	10 G		0.4	11 NORTHERN ITALY. ML 2.3 (GEN).
25	12 49 31.0%	38.941 N	27.858 E	10 G		0.4	5 TURKEY. MD 2.7 (ISK).
25	14 32 23.9	21.567 S	66.579 W	224	4.7	1.1	67 SOUTHERN BOLIVIA
25	15 23 27.0%	39.628 N	29.012 E	33 N		0.3	9 TURKEY. MD 3.0 (ISK).
a 25	15 25 29.8	17.818 N	95.046 W	127 D	5.4	1.0	255 OAXACA, MEXICO. mb 5.7 (BRK). Mo=4.0+10**17 Nm (PPT). Felt in Oaxaca and southern Veracruz. Also felt lightly at Mexico City.
a 25	15 46 00.5	16.882 N	101.390 W	33 N	5.4 5.4	1.0	191 NEAR COAST OF GUERRERO, MEXICO. Ms 5.0 (BRK). Mo=1.3+10**18 Nm (PPT) Felt in Guerrero. Also felt lightly at Mexico City.
25	16 05 13.8?	16.88 N	101.39 W	33 N	4.4	0.7	6 NEAR COAST OF GUERRERO, MEXICO
25	16 59 28.6*	10.962 S	66.686 E	10 G	4.7	0.9	12 MID-INDIAN RISE
25	17 12 17.7?	40.27 N	29.19 E	10 G		0.3	4 TURKEY. MD 2.6 (ISK).
25	17 49 14.5%	59.859 N	147.584 W	10		41	GULF OF ALASKA. <AEIC>. ML 2.5 (AEIC).
25	17 57 24.2%	35.692 N	51.378 E	33 N		0.4	5 IRAN. Felt at Gorgan.
25	20 52 12.5%	61.715 N	149.797 W	37		66	SOUTHERN ALASKA. <AEIC>. ML 3.3 (AEIC).
25	21 45 44.2%	43.075 N	13.544 E	5 G		0.9	6 CENTRAL ITALY
25	22 03 52.3*	45.416 N	20.570 E	10 G		1.0	6 YUGOSLAVIA. MG 3.0 (BEO).
25	23 07 28.4?	53.18 N	165.72 W	33 N	4.2	1 6	8 FOX ISLANDS, ALEUTIAN ISLANDS
25	23 36 54.0?	40.85 N	27.67 E	10 G		0.7	4 TURKEY. MD 2.5 (ISK).
26	00 34 37.2*	5.258 S	145.527 E	92	5.0	1.1	20 EAST PAPUA NEW GUINEA REGION
26	00 52 03.6%	46.130 N	2.754 E	10 G		0.3	7 FRANCE. ML 1.6 (LDG).
26	01 30 41.4%	42.473 N	13.136 E	10 G		1.1	5 CENTRAL ITALY
26	02 45 33.3	43.934 N	7.487 E	5 G		0.2	8 NEAR SOUTH COAST OF FRANCE. ML 2.1 (GEN). 2.1 (LDG).
26	03 12 04.9%	42.543 N	13.141 E	10 G		0.5	6 CENTRAL ITALY
26	04 39 26.5	38.629 N	29.150 E	10 G		0.3	11 TURKEY. MD 3.5 (ISK).
26	05 13 55.2?	9.89 S	124.18 E	33 N	4.0	1.2	6 TIMOR
26	05 33 52.1?	41.51 N	19.60 E	5 G		0.3	8 ALBANIA. ML 2.2 (TTG).
26	06 56 51.0	14.916 N	120.646 E	33 N	5.0 4.6	1.1	77 LUZON, PHILIPPINE ISLANDS. Felt (V) at Olangapo; (III) at Manila and Poonbata; (II) at Quezon City.
26	08 29 06.5%	40.430 N	23.294 E	10 G		0.3	5 GREECE. MD 2.0 (THE).
26	08 50 09 6?	40.61 N	22.98 E	10 G		0.4	5 GREECE. MD 1.5 (THE).
26	08 57 29 7	37.998 N	20.907 E	27	4.1	1.0	72 IONIAN SEA. ML 4.1 (ATH). 4.0 (ROM). 4.0 (TTG).
26	09 47 37.8*	40.838 N	29.502 E	10 G		0.9	5 TURKEY. MD 2.6 (ISK).
26	10 47 13.5?	10.87 N	62.35 W	33 N		1.5	6 NEAR COAST OF VENEZUELA
26	11 02 51.4?	6.02 S	147.83 E	118 *		1 5	6 EAST PAPUA NEW GUINEA REGION
26	11 17 41 0?	51.58 N	16.25 E	5 G		0.4	8 POLAND. ML 3.8 (GRF). 3.7 (VKA).

26	11 46 27.8?	33.98 S	70.67 W	73 ?	0.2	9	CHILE-ARGENTINA BORDER REGION
26	12 42 35 7?	30.65 S	30.43 E	5 G	0.8	7	REPUBLIC OF SOUTH AFRICA. mbLg 3.8 (BUL).
26	12 44 42 5*	42.657 N	24.120 E	10 G	1.3	9	BULGARIA. MD 3.0 (THE).
26	13 25 14.3*	21 191 S	68.422 W	120 G	1.3	5	CHILE-BOLIVIA BORDER REGION
26	13 44 40 0*	5.507 S	154.494 E	168 * 4.9	0.9	22	SOLOMON ISLANDS
26	14 54 21 4?	32 77 N	35 58 E	10 G	0.4	5	DEAD SEA REGION
26	15 04 07.9	2.090 S	128.055 E	27 D 5 2 4 2	1 2	61	CERAM SEA
26	15 23 02 7%	45 361 N	6.636 E	10 G	0.1	7	FRANCE
26	15 33 38 4*	7.570 N	37 665 E	10 G 4.4	1.3	7	ETHIOPIA
26	16 03 10 7?	31 13 S	178.10 W	80 ? 5 0	1 3	12	KERMADEC ISLANDS REGION
26	16 20 11 5?	31.39 S	69.81 W	149 ?	0 5	11	SAN JUAN PROVINCE, ARGENTINA
26	16 27 26 1*	2 098 S	128.228 E	33 N 4 9 4 0	1 1	16	CERAM SEA
26	18 50 17 4*	32.968 S	71.490 W	33 N	0.5	9	NEAR COAST OF CENTRAL CHILE
26	19 12 49 4?	46 32 N	1 85 E	10 G	0.5	4	FRANCE ML 1.6 (LDG).
26	19 14 14 4*	21 742 S	68.007 W	120 G	1.4	6	CHILE-BOLIVIA BORDER REGION
26	19 30 37 0?	12.56 N	89 41 W	10 G	0.7	6	OFF COAST OF CENTRAL AMERICA. Felt (II) at San Salvador, El Salvador.
26	19 45 46 6%	14 947 N	62 126 W	10 G	1 0	9	WINDWARD ISLANDS. MD 3.8 (TRN).
26	19 58 06 2%	59 796 N	153.079 W	105	65	SOUTHERN ALASKA <AEIC>.	
26	21 16 50 4?	43.93 N	7.67 E	5 G	0.1	4	NEAR SOUTH COAST OF FRANCE. ML 1.8 (GEN).
26	22 53 49 8?	43.22 N	0.44 E	10 G	0.9	6	FRANCE. ML 2.9 (LDG). Felt (II) at Arthez d'Asson, France.
27	00 44 08 1?	43.72 N	7.11 E	10 G	0.3	4	NEAR SOUTH COAST OF FRANCE. ML 1.6 (LDG).
27	01 45 48 3*	5 690 S	131.036 E	77 ? 4.2	1.1	12	BANDA SEA
27	03 16 26 7?	14.49 N	92.33 W	49 ?	0.1	5	NEAR COAST OF CHIAPAS, MEXICO
27	03 51 32 0?	33 38 S	117.72 E	10 G	0.3	4	WESTERN AUSTRALIA
27	04 01 51 2%	45 634 N	122.865 W	20	61	WASHINGTON-OREGON BORDER REGION. <SEA>. MD 2.8 (SEA).	
27	05 12 13 8?	62.01 N	2.08 E	10 G	0.2	8	NORWEGIAN SEA MD 2.1 (BER).
27	05 36 44 2*	24.636 S	179.827 E	553 ? 4.3	0 8	18	SOUTH OF FIJI ISLANDS
27	08 32 36 5%	46 499 N	2.909 E	10 G	0.7	7	FRANCE. ML 2.0 (LDG).
27	09 33 16 6*	1.111 N	91.499 W	10 G 4.4	1 1	16	GALAPAGOS ISLANDS REGION
27	09 39 32 8	1.831 N	90.555 W	10 G 5.0 5 2	0.8	52	GALAPAGOS ISLANDS REGION. Mo=8.0*10**17 Nm (PPT).
27	09 54 48 9*	39.865 N	118.799 E	33 N	0.8	6	NORTHEASTERN CHINA
27	10 06 36 8*	1.773 N	90.490 W	10 G 4.8 5.4	0.9	34	GALAPAGOS ISLANDS REGION
27	10 15 25 2?	13.03 N	89.58 W	10 G	1.0	7	EL SALVADOR Felt (II) at San Salvador.
27	11 38 12 7	37.291 N	29.739 E	22 4.7 4.5	1.0	155	TURKEY. MD 4 5 (ISK). Felt at Burdur, Denizli, Isparta and Antalya
27	11 47 25 9	37.562 N	29.583 E	10 G	0.7	13	TURKEY. MD 3.8 (ISK).
27	11 59 32 3%	37.649 N	29.007 E	0 G	0.4	9	TURKEY. MD 3.8 (ISK).
27	12 08 00 3%	37.180 N	122.397 W	11	13	CENTRAL CALIFORNIA. <BRK>. ML 2.9 (BRK).	
27	13 06 23 7	16 836 N	101.400 W	33 N 4 6	1 0	42	NEAR COAST OF GUERRERO, MEXICO
27	13 16 48 9	41.063 N	22 501 E	10 G	0 4	12	YUGOSLAVIA. ML 2.3 (SKO). MD 2.3 (THE).
27	13 47 24 0?	39 10 N	27 67 E	10 G	0 3	4	TURKEY MD 2.8 (ISK).
27	14 00 16 6	37 279 N	29.746 E	10 G	0.6	14	TURKEY. MD 3.8 (ISK).
27	14 43 56 2	37.282 N	29.730 E	11 4.2	0.9	55	TURKEY. MD 4.1 (ISK).
27	15 04 36 4	37 316 N	29.760 E	18 4.0	1.0	46	TURKEY. MD 4.0 (ISK).
27	15 26 51 9*	5.120 S	143.815 E	95 * 3.9	0.7	7	PAPUA NEW GUINEA
27	15 52 18 8*	23.277 S	66.710 W	278 ?	1.1	7	JUJUY PROVINCE, ARGENTINA
27	17 18 34 5?	2.03 N	90.35 W	10 G 4.6	1.1	10	GALAPAGOS ISLANDS REGION
27	17 36 50 6*	1.836 N	90.524 W	10 G 4.7	0.9	20	GALAPAGOS ISLANDS REGION
27	17 39 54 7?	39 76 N	30.53 E	5 G	0.7	5	TURKEY. MD 2.9 (ISK).
27	18 17 40 5*	23 645 N	121.415 E	10 G	0.1	5	TAIWAN
27	18 19 21 6?	44.55 N	5.35 E	10 G	0.3	6	FRANCE ML 2.3 (LDG).
27	18 58 36 2*	45.228 N	20.833 E	10 G	0.7	5	YUGOSLAVIA
27	21 03 31 2%	43 756 N	12.307 E	10 G	0 4	5	CENTRAL ITALY
27	21 16 49 0%	44.114 N	7.978 E	10 G	0.3	6	NORTHERN ITALY. ML 1.6 (GEN).
27	23 27 08 6%	42.367 N	19.457 E	10 G	0.7	8	YUGOSLAVIA. ML 1.7 (TTG).
27	23 50 15 6	40.764 N	29.856 E	10 G	0.3	7	TURKEY. MD 2.9 (ISK).
28	00 07 42 1	21.409 S	179.117 W	613 5.0	0.9	57	FIJI ISLANDS REGION
28	00 08 38 2%	37.234 N	29.667 E	10 G	0.4	5	TURKEY. MD 3.4 (ISK).
28	01 54 24 1	45.227 N	3.220 E	10 G	0.9	27	FRANCE. ML 3.3 (LDG).
28	01 57 18 0*	18.181 S	72.185 W	42 ? 4.9	1.8	7	OFF COAST OF NORTHERN CHILE
28	03 37 49 6	34 617 N	23.997 E	33 N 3.9 2 9	1.2	69	CRETE. ML 4.1 (ATH).
28	05 31 55 6*	17.766 S	122.539 E	10 G	0.8	6	WESTERN AUSTRALIA
28	05 35 13 1	16.135 N	94.913 W	53 D 4.9	0 9	139	OAXACA, MEXICO
28	06 00 25 8	44.582 N	9.458 E	5 G	0.9	20	NORTHERN ITALY
28	08 45 19.9*	10.264 S	124.576 E	53 ? 4.6	0.8	6	TIMOR
28	09 02 08 5	38.619 N	26.679 E	10 G	0.8	27	AEGEAN SEA. MD 4.0 (ISK), 3.8 (THE).
28	09 59 26 9?	41.10 N	28.66 E	10 G	0 4	4	TURKEY. MD 2.8 (ISK).
28	10 59 25.1*	22.698 N	146.515 E	33 N 4.3	0.9	8	NORTH PACIFIC OCEAN
28	11 03 07 3	39.941 N	22.465 E	10 G	0.5	9	GREECE. MD 2.6 (THE).
28	11 12 07 2	0.989 N	120 591 E	616 D 5.5	1.1	146	MINAHASSA PENINSULA
28	11 32 50 8*	38.611 N	26.718 E	10 G	1.1	6	AEGEAN SEA. MD 3.4 (ISK), 3.3 (ATH).
28	11 44 51 8%	45.071 N	2.988 E	10 G	1.2	8	FRANCE ML 2.0 (LDG).
28	12 09 22 3*	38.524 N	26.558 E	10 G	0.6	6	AEGEAN SEA MD 3.4 (ISK), 3.3 (ATH).
28	13 49 57 7%	59.897 N	153.439 W	136	44	SOUTHERN ALASKA. <AEIC>.	
28	14 37 21 1?	39.15 N	27.68 E	10 G	0.9	4	TURKEY. MD 3.0 (ISK).
28	14 43 01 4?	44.07 N	6.87 E	10 G	0.6	4	FRANCE. ML 2.0 (LDG).
28	15 57 06 0?	8.19 S	119.63 E	188 ? 4.9	0.5	7	FLORES ISLAND REGION
28	17 00 14 8?	36.86 N	29.21 E	10 G	0.8	4	TURKEY. MD 3.5 (ISK).
28	18 28 00 8%	39.265 N	29.177 E	10 G	0.5	10	TURKEY
28	19 48 16 2	18 132 N	103.402 W	33 N 4.8 4.1	1 0	34	NEAR COAST OF MICHOACAN, MEXICO
28	20 34 14.6	26.756 N	102 084 E	33 N	0.9	7	SICHUAN PROVINCE, CHINA. ML 3.9 (BJI).
28	21 00 43.7?	31.97 S	71 75 W	10 G	0.3	7	NEAR COAST OF CENTRAL CHILE
28	21 56 32.0*	16.628 N	94.191 W	141 4.9	0.9	14	OAXACA, MEXICO
28	22 47 24 9%	40.748 N	29.222 E	10 G	0.2	5	TURKEY. MD 2.4 (ISK).
28	23 29 54.9	45.251 N	6.571 E	10 G	0.2	7	FRANCE
28	23 46 08 4*	25.234 S	26.767 E	5 G	1.0	5	REPUBLIC OF SOUTH AFRICA. mbLg 3.6 (BUL).
28	23 58 20.2	30.329 N	94.793 E	33 N 4.9	0.9	67	TIBET
29	00 40 19.2	24.563 N	95.120 E	119 4.6	1.1	28	BURMA
29	01 38 48.4	49.596 N	156.099 E	89 D 4.9	0.7	87	KURIL ISLANDS
29	01 50 08 6	2.958 S	129.415 E	33 N 5.2	1 2	36	CERAM
29	02 22 41 5%	41.190 N	23.570 E	10 G	0 3	6	GREECE-BULGARIA BORDER REGION. MD 2.7 (THE).

29	03 16 51.1%	39.196 N	23.568 E	10 G	0.3	5	AEGEAN SEA. MD 2.1 (THE).
29	03 20 15.6*	30.294 N	94.765 E	33 N	4 6	1.1	15 TIBET
29	04 05 45.9*	23.250 N	121.483 E	43 *		1.0	11 TAIWAN
29	04 06 56.4	42.229 N	125.597 W	10 G	4 6	0.6	112 OFF COAST OF OREGON
29	04 15 41.7%	46.784 N	121.906 W	8		61	WASHINGTON. <SEA>. MD 2.3 (SEA). Felt at Mt. Rainier.
29	04 16 18.6*	36.744 N	31.229 E	117 ?		1.1	9 TURKEY. MD 4.1 (HLW).
29	05 02 45.7%	33.491 S	70.829 W	70 G		0.4	7 CHILE-ARGENTINA BORDER REGION
29	07 10 30.8*	26.368 S	27.449 E	5 G		1.1	8 REPUBLIC OF SOUTH AFRICA. mbLg 3 6 (BUL).
29	07 12 51.9?	6.16 S	146.61 E	168 ?	5.0	1.5	8 EAST PAPUA NEW GUINEA REGION
29	08 20 03.1*	51.105 N	176.180 W	33 N	4 8	1.2	16 ANDREANOF ISLANDS, ALEUTIAN IS.
29	08 46 16.6	44.862 N	7.232 E	10 G		0.8	23 NORTHERN ITALY. ML 2.6 (GEN), 2.5 (LDG).
29	09 28 02.7*	60.492 S	51.097 W	33 N	5 0	1.4	14 SCOTIA SEA
29	09 37 54.9	33.440 S	71.654 W	10 G		0.4	7 NEAR COAST OF CENTRAL CHILE
29	10 04 37.9%	39.578 N	15.156 E	10 G		0.2	5 SOUTHERN ITALY
29	10 06 35.9	23.844 N	124.884 E	33 N	4 7 3.9	1.1	29 SOUTHWESTERN RYUKYU ISLANDS
29	10 44 09.6*	4.829 S	153.098 E	66 *	4 8	1.1	10 NEW IRELAND REGION
29	11 19 59.6?	33.36 S	70.08 W	10 G		0.3	6 CHILE-ARGENTINA BORDER REGION
29	11 49 10.7	41.557 N	142.062 E	78 *	4 2	1.1	13 HOKKAIDO, JAPAN REGION
29	12 07 09.6?	42.15 N	125.64 W	10 G		0.4	26 OFF COAST OF OREGON
29	12 15 59.5	42.133 N	20.591 E	5 G		0.6	20 YUGOSLAVIA ML 3.4 (SKO), 2.9 (TTG).
29	12 43 05.2*	73.277 N	6.504 E	10 G	4.4	1.3	27 GREENLAND SEA
29	12 43 13.9%	43.845 N	7.114 E	10 G		0.4	7 NEAR SOUTH COAST OF FRANCE
29	13 07 53.3	52.528 N	167.148 W	33 N	4.2	1.1	29 FOX ISLANDS, ALEUTIAN ISLANDS
29	13 18 28.7	41.531 N	142.768 E	55 *	4.1	0.9	17 HOKKAIDO, JAPAN REGION
29	13 25 40.3?	27.06 S	178.30 W	340 ?	4.1	1.2	18 KERMADEC ISLANDS REGION
o 29	13 52 39.8	14.220 S	73.945 W	96 D	5.5	0.9	147 PERU. Felt (IV) at Nazca and Pisca.
29	13 53 18.3%	44.389 N	7.402 E	10 G		0.3	7 NORTHERN ITALY. ML 1.9 (GEN).
29	14 41 03.2%	39.351 N	28.948 E	10 G		0.3	7 TURKEY. MD 2.9 (ISK).
29	15 43 34.9?	42.87 N	14.16 W	33 N		0.8	21 NORTH ATLANTIC OCEAN. mbLg 4.0 (MDD).
29	15 47 08.3*	32.628 S	69.335 W	33 N		1.0	6 MENDOZA PROVINCE, ARGENTINA
29	15 48 08.8	30.269 N	94.793 E	33 N	4.7	1.1	41 TIBET
29	16 21 04.8?	6.17 N	127.24 E	60 G	5 1	1.4	11 PHILIPPINE ISLANDS REGION
29	17 01 01.8	36.948 N	29.265 E	5 G	3.9	1.1	40 TURKEY. MD 4.3 (ATH), 4.1 (ISK).
29	17 39 58.9?	9.88 S	111.74 E	33 N	4.3	1.6	6 SOUTH OF JAVA
29	17 54 10.3	40.174 N	143.779 E	36 *	4.2	0.6	16 OFF EAST COAST OF HONSHU, JAPAN
29	18 15 38.3?	38.69 N	133.40 E	420 G	3 6	1.3	5 SEA OF JAPAN
29	18 37 20.8	45.437 N	9.375 E	11		1.0	49 NORTHERN ITALY. ML 3.2 (LDG).
29	19 40 33.1*	31.874 S	67.441 W	33 N		1.1	7 SAN JUAN PROVINCE, ARGENTINA
29	19 44 54.0*	21.027 S	174.071 W	81 ?	4 8	1.4	31 TONGA ISLANDS
29	20 46 34.0	44.758 N	22.457 E	10 G		1.1	13 ROMANIA
29	22 22 53.6*	21.561 S	169.691 E	33 N	4.9 4.8	1.3	48 LOYALTY ISLANDS REGION
29	22 43 16.7?	3.93 S	130.99 E	33 N	4.2	0.1	4 CERAM
29	22 46 10.2*	37.384 N	70.661 E	33 N	3.2	1.3	9 AFGHANISTAN-USSR BORDER REGION
30	00 44 16.7?	34.91 S	70.58 W	117 ?		0.2	8 CHILE-ARGENTINA BORDER REGION
30	01 09 21.2?	39.10 N	15.43 E	190 G		0.2	7 SOUTHERN ITALY
30	01 16 53.8%	41.707 N	20.068 E	5 G		0.7	10 ALBANIA. ML 2.5 (TTG).
30	02 11 32.5%	40.698 N	124.645 W	16		6	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.0 (BRK).
30	02 23 04.6	44.438 N	6.274 E	5 G		0.4	14 FRANCE
30	04 22 04.3*	38.934 N	15.425 E	32 *		1.3	8 SICILY
30	04 44 42.6	44.298 N	17.983 E	10 G		0.9	17 YUGOSLAVIA. ML 3.1 (ZAG), 3.0 (TTG).
30	04 50 42.3	36.321 N	28.200 E	47	4.2	0.9	109 DODECANESE ISLANDS. MD 4.5 (ATH), 4.3 (ISK). Felt on Rodhos.
o 30	05 16 05.0	30.049 N	131.186 E	31 D	5.0 5.1	1.0	76 KYUSHU, JAPAN
30	05 17 32.5	44.553 N	7.281 E	10 G		0.6	18 NORTHERN ITALY. ML 2.2 (GEN), 2.1 (LDG).
30	05 45 39.9%	60.177 N	153.107 W	119		16	SOUTHERN ALASKA. <AEIC>.
30	07 33 23.0	44.371 N	7.339 E	10 G		0.5	8 NORTHERN ITALY. ML 1.9 (GEN).
30	07 34 17.2?	44.38 N	7.34 E	10 G		0.2	4 NORTHERN ITALY. ML 1.3 (GEN).
30	08 10 11.9?	39.12 N	27.69 E	10 G		0.5	4 TURKEY. MD 2.9 (ISK).
30	09 38 30.2?	40.00 N	29.63 E	10 G		0.2	4 TURKEY. MD 2.8 (ISK).
o 30	09 39 39.6	18.889 N	145.154 E	595 D	5.0	0.8	145 MARIANA ISLANDS
30	10 32 47.8?	36.97 N	29.24 E	10 G		0.2	4 TURKEY. MD 3.8 (ISK).
30	11 23 45.7%	59.162 N	136.478 W	10 G		20	SOUTHEASTERN ALASKA. <PGC>. ML 4.0 (PGC), 3.6 (AEIC). Felt strongly at Pleasant Camp, British Columbia.
30	11 33 52.8*	50.197 N	18.936 E	10 G		0.9	5 POLAND. ML 3.2 (KRA).
30	11 42 09.7	45.525 N	15.276 E	5 G		0.9	6 YUGOSLAVIA. MD 2.4 (TRI). ML 2.0 (KBA). Felt strongly at Bajonci.
30	12 27 56.2*	42.859 N	24.080 E	10 G		1.4	7 BULGARIA
30	12 37 51.4?	30.48 S	179.37 W	397 ?	4.2	0.9	10 KERMADEC ISLANDS REGION
30	14 32 23.6	30.035 N	131.276 E	44 *	4.5	1.2	35 KYUSHU, JAPAN
30	14 32 47.5%	60.842 N	150.340 W	46		43	KENAI PENINSULA, ALASKA. <AEIC>. ML 3.3 (AEIC), 2.8 (PMR).
30	15 56 24.0?	45.41 S	77.10 W	33 N	4.8 4.8	1.3	10 OFF COAST OF SOUTHERN CHILE
30	16 13 25.2%	60.219 N	147.660 W	22	3.8	80	SOUTHERN ALASKA. <AEIC>. ML 4.0 (AEIC), 3.8 (PMR). Felt (IV) at Seward.
30	17 12 45.7	44.061 N	7.686 E	10 G		0.4	10 NORTHERN ITALY. ML 2.0 (LDG), 1.8 (GEN).
30	17 31 10.3%	38.810 N	122.778 W	5		22	NORTHERN CALIFORNIA. <BRK>. ML 3.6 (BRK). Ma=6.2*10**14 Nm (BRK). Felt at Cobb.
30	19 27 06.6?	37.94 N	15.01 E	10 G		0.1	4 SICILY
30	19 47 00.7?	12.07 N	143.26 E	33 N	4.4	0.7	9 SOUTH OF MARIANA ISLANDS
30	20 32 56.4*	16.460 N	94.064 W	115 *	4.2	1.5	12 OAXACA, MEXICO
30	20 35 35.6?	66.88 N	155.75 W	10 G		0.8	12 ALASKA. ML 2.9 (AEIC), 2.7 (PMR).
30	21 22 59.4?	15.10 N	145.12 E	33 N	4.4	0.6	5 MARIANA ISLANDS
30	22 22 05.9	30.385 N	94.795 E	33 N	4.8	1.3	55 TIBET
31	00 18 12.3	51.568 N	6.805 E	10 G		0.4	6 GERMANY
31	01 05 19.6?	34.29 S	70.22 W	10 G		0.3	6 CHILE-ARGENTINA BORDER REGION
31	01 25 46.0	37.234 N	21.523 E	10 G		0.9	18 SOUTHERN GREECE. ML 3.3 (ATH).
31	02 34 04.9?	17.83 S	178.44 W	670 ?	4.9	0.6	12 FIJI ISLANDS REGION
31	03 16 35.4%	58.986 N	135.152 W	10 G	4.0	29	SOUTHEASTERN ALASKA. <PGC>. ML 4.5 (PGC). Felt (IV) at Atlin, British Columbia and (III) at Pleasant Camp, British Columbia. Also felt (III) at Haines, Alaska.
31	03 27 14.7*	16.199 S	174.423 W	170 G	4.8	1.2	22 TONGA ISLANDS
31	04 30 26.8%	37.732 N	15.050 E	10 G		0.5	5 SICILY
31	05 02 28.9%	18.287 N	65.922 W	10 G		1.5	5 PUERTO RICO REGION

31	05 39 27.7%	42.881 N	13.033 E	10 G	0.4	5	CENTRAL ITALY
31	07 21 49.5?	24.15 S	179.91 W	557 ?	4.7	1.3	15 SOUTH OF FIJI ISLANDS
31	07 28 41.8*	51.299 N	15.928 E	10 G	4.5	1.0	5 POLAND
31	07 36 23.9*	6.439 S	154.424 E	37 ?	4.0	1.2	10 SOLOMON ISLANDS
31	09 55 02.4	37.306 N	21.505 E	48 *	3.7	0.9	26 SOUTHERN GREECE. MD 3.8 (ATH).
31	10 16 50.8&	62.412 N	150.766 W	70			72 CENTRAL ALASKA. <AEC>. Felt (IV) at Skwentna and Yentna River.
31	10 31 06.5	45.906 N	10.634 E	10 G		0.9	12 NORTHERN ITALY. MD 2.9 (TRI). ML 2.8 (KBA).
31	11 20 52.4	24.889 N	98.835 E	33 N	4.5	1.2	13 BURMA-CHINA BORDER REGION
31	11 22 53.8	45.335 N	21.138 E	35 *		1.0	63 ROMANIA. ML 4.3 (ZAG). Felt (V) in the epicentral area. Felt (III) at Timisoara. Also felt at Belgrade, Yugoslavia.
31	11 43 20.2?	39.14 N	27.54 E	10 G		0.2	4 TURKEY. MD 2.8 (ISK).
31	12 04 27.5%	41.003 N	23.563 E	10 G		0.1	6 GREECE-BULGARIA BORDER REGION. MD 2.4 (THE).
31	12 32 44.0*	9.170 S	112.118 E	114 *	4.4	0.3	6 SOUTH OF JAVA
31	12 40 25.6?	15.77 N	97.27 W	33 N		0.9	5 NEAR COAST OF OAXACA, MEXICO
31	13 34 15.8	13.775 S	166.058 E	44 *	5.0	1.3	47 VANUATU ISLANDS
31	14 12 25.9?	40.54 N	21.37 E	10 G		1.2	5 GREECE. MD 2.5 (THE).
31	14 28 43.0?	38.83 N	23.85 E	10 G		0.9	5 GREECE. MD 2.6 (THE).
31	14 41 17.5%	44.553 N	7.440 E	10 G		0.5	8 NORTHERN ITALY. ML 1.9 (GEN).
31	15 00 53.9&	60.231 N	148.152 W	19			43 KENAI PENINSULA, ALASKA. <AEC>. ML 3.0 (AEC).
31	15 43 28.2	43.270 N	14.386 W	10 G	4.3	1.2	57 NORTH ATLANTIC OCEAN
31	17 34 47.3?	8.06 S	128.32 E	166 ?	3.5	1.2	8 TIMOR SEA
31	17 48 08.9*	26.976 S	176.656 W	154 ?	4.7	1.3	28 SOUTH OF FIJI ISLANDS
31	18 05 29.5%	39.299 N	27.839 E	10 G		0.3	5 TURKEY. MD 3.2 (ISK).
31	18 19 17.4?	21.41 S	168.72 E	88 ?	4.1	0.7	7 LOYALTY ISLANDS
31	18 41 14.8*	38.528 N	26.545 E	10 G		0.6	7 AEGEAN SEA. MD 3.4 (ISK), 3.2 (ATH).
31	18 55 38.3*	71.703 N	10.598 W	10 G	3.3	1.3	11 JAN MAYEN ISLAND REGION. MD 2.9 (BER).
31	19 33 30.7?	42.35 N	15.52 E	10 G		1.6	4 ADRIATIC SEA
31	20 01 59.4*	38.669 N	26.731 E	10 G		0.2	7 AEGEAN SEA. MD 3.4 (ISK), 3.2 (ATH).
31	20 58 30.0?	39.89 N	15.72 E	10 G		0.2	4 SOUTHERN ITALY
31	21 44 27.9	32.785 N	141.706 E	40 *	4.7 4.6	1.0	69 SOUTH OF HONSHU, JAPAN
31	22 15 21.6&	61.411 N	147.516 W	19			32 SOUTHERN ALASKA. <AEC>. ML 2.5 (AEC).
31	22 27 59.6	40.149 N	142.574 E	52	4.7	0.9	45 NEAR EAST COAST OF HONSHU, JAPAN
31	22 37 38.5&	40.673 N	124.165 W	23			6 NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.3 (BRK). Felt (IV) at Rio Dell and (III) at Bridgeville, Kneeland, Fortuna and Samoa. Also felt at Eureka, Ferndale and Scotia.
31	22 52 19.4*	10.428 N	126.504 E	50 G	4.4	1.2	24 PHILIPPINE ISLANDS REGION
31	23 15 11.5*	37.100 S	71.872 W	55 ?	4.4	0.6	22 S. CHILE-ARGENTINA BORDER REGION. Felt (II) at Chillan, Chile.
31	23 41 40.8%	38.062 N	15.087 E	10 G		0.6	5 SICILY
31	23 52 34.0?	43.26 N	7.24 E	10 G		0.1	4 NEAR SOUTH COAST OF FRANCE. ML 1.6 (LDG).

A D D I T I O N A L S O U R C E P A R A M E T E R S

01 13 32 41.60 15.797S 75.016W 21km 5.4mb (40 obs.) 5.9msz (26 obs.) NEAR COAST OF PERU CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 22S, 54C Centroid Location: Origin Time 13:32:47 8 0.2 Lat 15.88S 0.03 Lon 75.01W 0.05 Dep 15.0 BDY Half-duration 3.5 Principal Axes: Scale 10**17 Nm T Val= 10.84 Plg=55 Azm= 94 N 0.27 14 343 P -11.11 31 245 Best Double Couple:Ma=1.1*10**18 NP1:Strike=296 Dip=18 Slip= 41 NP2: 166 78 104	NP2: 21 57 118 CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 25S, 70C Centroid Location: Origin Time 05:14:35.1 0.3 Lat 1.31S 0.02 Lon 99.50E 0.03 Dep 40.0 BDY Half-duration 5.1 Principal Axes: Scale 10**18 Nm T Val= 3.30 Plg=63 Azm= 37 N 0.34 6 139 P -3.64 26 232 Best Double Couple:Ma=3.5*10**18 NP1:Strike=336 Dip=20 Slip= 108 NP2: 137 71 84	Principal Axes: Scale 10**16 Nm T Val= 7.04 Plg=78 Azm=191 N 0.58 11 349 P -7.63 4 80 Best Double Couple:Ma=7.3*10**16 NP1:Strike=181 Dip=42 Slip= 107 NP2: 339 50 76
02 05 14 30.19 1.068S 99.843E 54km 5.8mb (105 obs.) 6.1msz (33 obs.) SOUTHERN SUMATERA FAULT PLANE SOLUTION: P-Waves NP1:Strike=135 Dip=55 Slip= 39 NP2: 20 59 138 Principal Axes: T Plg=50 Azm=346 P 2 78 Comment: The focal mechanism is poorly controlled and corresponds to strike-slip faulting with a large reverse component. The preferred fault plane is not determined. RADIATED ENERGY No. of sta: 8 Focal mech. F Energy 8.5±2.0*10**12 Nm MOMENT TENSOR SOLUTION Dep 48 No. of sta: 12 Principal Axes: Scale 10**18 Nm T Val= 3.73 Plg=65 Azm=343 N 0.09 23 185 P -3.81 8 91 Best Double Couple:Ma=3.8*10**18 NP1:Strike=156 Dip=42 Slip= 54	02 20 20 48.59 11.199N 85.666W 33km 4.7mb (9 obs.) 4.9msz (5 obs.) NICARAGUA CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 17S, 29C Centroid Location: Origin Time 20:20:51.1 0.8 Lat 10.56N 0.10 Lon 86.27W 0.11 Dep 15.0 FIX Half-duration 1.9 Principal Axes: Scale 10**17 Nm T Val= 1.49 Plg=54 Azm= 47 N 0.13 8 306 P -1.62 35 211 Best Double Couple:Ma=1.6*10**17 NP1:Strike=267 Dip=12 Slip= 50 NP2: 128 81 98	02 21 56 40.80 5.125S 153.630E 57km 5.3mb (26 obs.) NEW IRELAND REGION CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 14S, 23C Centroid Location: Origin Time 21:56:41.8 0.6 Lat 5.37S 0.09 Lon 153.53E 0.08 Dep 35.6 6.8 Half-duration 1.4 Principal Axes: Scale 10**16 Nm T Val= 4.17 Plg=76 Azm=318 N 0.01 14 135 P -4.18 1 225 Best Double Couple:Ma=4.2*10**16 NP1:Strike=329 Dip=46 Slip= 110 NP2: 121 48 71
04 06 26 31.86 42.387N 44.116E 20km 5.0mb (83 obs.) 4.9msz (14 obs.) WESTERN CAUCASUS CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 17S, 34C Centroid Location: Origin Time 06:26:38.6 1.4 Lat 42.60N 0.10 Lon 44.25E 0.12 Dep 19.7 2.9 Half-duration 2.0 Principal Axes: Scale 10**17 Nm T Val= 1.74 Plg=72 Azm=318 N -0.22 15 175 P -1.52 10 82 Best Double Couple:Ma=1.6*10**17 NP1:Strike=154 Dip=37 Slip= 65 NP2: 4 57 108	04 20 20 48.59 11.199N 85.666W 33km 4.7mb (9 obs.) 4.9msz (5 obs.) NICARAGUA CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 17S, 29C Centroid Location: Origin Time 20:20:51.1 0.8 Lat 10.56N 0.10 Lon 86.27W 0.11 Dep 15.0 FIX Half-duration 1.9 Principal Axes: Scale 10**17 Nm T Val= 1.49 Plg=54 Azm= 47 N 0.13 8 306 P -1.62 35 211 Best Double Couple:Ma=1.6*10**17 NP1:Strike=267 Dip=12 Slip= 50 NP2: 128 81 98	04 06 26 31.86 42.387N 44.116E 20km 5.0mb (83 obs.) 4.9msz (14 obs.) WESTERN CAUCASUS CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 17S, 34C Centroid Location: Origin Time 06:26:38.6 1.4 Lat 42.60N 0.10 Lon 44.25E 0.12 Dep 19.7 2.9 Half-duration 2.0 Principal Axes: Scale 10**17 Nm T Val= 1.74 Plg=72 Azm=318 N -0.22 15 175 P -1.52 10 82 Best Double Couple:Ma=1.6*10**17 NP1:Strike=154 Dip=37 Slip= 65 NP2: 4 57 108
02 21 24 03.87 72.961N 12.309E 10km 5.4mb (84 obs.) 4.7msz (18 obs.) NORWEGIAN SEA CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 13S, 27C Centroid Location: Origin Time 21:24:11.4 0.6 Lat 73.47N 0.08 Lon 12.36E 0.19 Dep 17.3 3.1 Half-duration 2.5		

04 07 08 31.90 8.146S 124.689E 29km
 5.4mb (48 obs.) 4.8Msz (8 obs.)
 TIMOR
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 20S, 43C
 Centroid Location:
 Origin Time 07:08:37.8 0.7
 Lot 7.76S 0.05 Lon 124.74E 0.04
 Dep 44.3 2.8 Half-duration 2.5
 Principal Axes:
 Scale 10**17 Nm
 T Vol= 3.36 Plg=74 Azm=155
 N 0.33 1 63
 P -3.70 16 333
 Best Double Couple: Mo=3.5*10**17
 NP1: Strike= 62 Dip=29 Slip= 89
 NP2: 244 61 91

04 11 43 10.49 8.099S 124.681E 29km
 6.2mb (80 obs.) 6.5Msz (30 obs.)
 TIMOR
 FAULT PLANE SOLUTION: P-Waves
 NP1: Strike=250 Dip=67 Slip= 27
 NP2: 149 65 155
 Principal Axes:
 T Plg=35 Azm=110
 P 1 19
 Comment: The focal mechanism is poorly controlled and corresponds to strike-slip faulting with a moderate reverse component. The preferred fault plane is not determined

RADIATED ENERGY
 No. of sto: 11 Focal mech. F
 Energy 3.8±1.0*10**14 Nm
 MOMENT TENSOR SOLUTION
 Dep 32 No. of sto: 11
 Principal Axes:
 Scale 10**19 Nm
 T Vol= 2.55 Plg=17 Azm= 94
 N -0.54 73 270
 P -2.01 1 4
 Best Double Couple: Mo=2.3*10**19
 NP1: Strike=138 Dip=78 Slip= 169
 NP2: 230 79 13
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 26S, 76C M.W.: 22S, 50C
 Centroid Location:
 Origin Time 11:43:15.6 0.1
 Lot 8.02S 0.01 Lon 124.73E 0.01
 Dep 17.0 BDY Half-duration 8.3
 Principal Axes:
 Scale 10**19 Nm
 T Vol= 1.45 Plg=67 Azm=124
 N 0.06 11 243
 P -1.51 20 337
 Best Double Couple: Mo=1.5*10**19
 NP1: Strike= 86 Dip=27 Slip= 116
 NP2: 237 66 77

05 03 47 46.81 3.775S 135.864E 37km
 5.4mb (44 obs.) 5.1Msz (9 obs.)
 WEST IRIAN REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 21S, 49C
 Centroid Location:
 Origin Time 03:47:45.7 0.4
 Lot 4.02S 0.04 Lon 136.13E 0.04
 Dep 15.0 FIX Half-duration 2.3
 Principal Axes:
 Scale 10**17 Nm
 T Vol= 3.48 Plg=32 Azm=355
 N -1.49 16 95
 P -2.00 53 208
 Best Double Couple: Mo=2.7*10**17
 NP1: Strike= 42 Dip=20 Slip=-145
 NP2: 278 79 -73

05 04 30 52.55 9.585S 114.673E 54km
 5.7mb (64 obs.) 5.6Msz (12 obs.)
 SOUTH OF BALI ISLAND
 FAULT PLANE SOLUTION: P-Waves
 NP1: Strike=260 Dip=85 Slip=-30
 NP2: 353 60 -174
 Principal Axes:
 T Plg=17 Azm=310
 P 24 212
 Comment: The focal mechanism is

poorly controlled and corresponds to strike-slip faulting with a large normal component. The preferred fault plane is not determined.

RADIATED ENERGY
 No. of sto: 6 Focal mech. C
 Energy 4.5±1.8*10**12 Nm
 MOMENT TENSOR SOLUTION
 Dep 33 No. of sto: 8
 Principal Axes:
 Scale 10**18 Nm
 T Vol= 1.41 Plg=16 Azm=309
 N 0.62 55 64
 P -2.02 30 210
 Best Double Couple: Mo=1.7*10**18
 NP1: Strike=353 Dip=57 Slip=-169
 NP2: 257 81 -34
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 24S, 59C
 Centroid Location:
 Origin Time 04:30:59.6 0.4
 Lot 9.65S FIX; Lon 114.60E FIX
 Dep 15.0 FIX Half-duration 3.9
 Principal Axes:
 Scale 10**18 Nm
 T Vol= 1.45 Plg=47 Azm=349
 N 0.40 8 87
 P -1.85 42 185
 Best Double Couple: Mo=1.6*10**18
 NP1: Strike=340 Dip= 8 Slip= 163
 NP2: 87 88 82

05 10 58 28.56 47.892N 145.796E 468km
 5.6mb (101 obs.)
 SEA OF OKHOTSK
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 21S, 57C
 Centroid Location:
 Origin Time 10:58:30.9 0.2
 Lot 47.96N 0.02 Lon 145.91E 0.04
 Dep 465.2 1.7 Half-duration 3.0
 Principal Axes:
 Scale 10**17 Nm
 T Vol= 6.49 Plg=33 Azm=169
 N 1.54 35 52
 P -8.03 38 289
 Best Double Couple: Mo=7.3*10**17
 NP1: Strike=316 Dip=35 Slip= -5
 NP2: 50 87 -125

05 16 46 58.14 47.522N 154.214E 25km
 5.2mb (78 obs.) 4.5Msz (11 obs.)
 KURIL ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 25C
 Centroid Location:
 Origin Time 16:47: 3.7 0.5
 Lot 47.31N 0.09 Lon 154.43E 0.08
 Dep 15.0 FIX Half-duration 1.6
 Principal Axes:
 Scale 10**16 Nm
 T Vol= 5.54 Plg=80 Azm=200
 N -0.58 10 29
 P -4.96 2 299
 Best Double Couple: Mo=5.2*10**16
 NP1: Strike= 18 Dip=44 Slip= 75
 NP2: 218 48 104

06 12 19 49.56 13.108S 72.187W 105km
 6.2mb (75 obs.)
 PERU
 FAULT PLANE SOLUTION: P-Waves
 NP1: Strike=327 Dip=81 Slip=-10
 NP2: 59 80 -171
 Principal Axes:
 T Plg= 1 Azm= 13
 P 13 283
 Comment: The focal mechanism is moderately well controlled and corresponds to strike-slip faulting with a small normal component. The preferred fault plane is not determined.
 RADIATED ENERGY
 No. of sto: 10 Focal mech. F
 Energy 1.9±0.6*10**14 Nm
 MOMENT TENSOR SOLUTION
 Dep 110 No. of sto: 15
 Principal Axes:

Scale 10**19 Nm
 T Vol= 3.36 Plg= 1 Azm=181
 N -0.57 75 87
 P -2.80 15 271
 Best Double Couple: Mo=3.1*10**19
 NP1: Strike=315 Dip=79 Slip=-10
 NP2: 47 80 -169
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 26S, 76C M.W.: 21S, 55C
 Centroid Location:
 Origin Time 12:19:55.6 0.1
 Lot 13.41S 0.01 Lon 71.88W 0.02
 Dep 105.9 0.5 Half-duration 6.1
 Principal Axes:
 Scale 10**19 Nm
 T Vol= 2.11 Plg= 0 Azm= 5
 N -0.66 33 95
 P -1.44 57 274
 Best Double Couple: Mo=1.8*10**19
 NP1: Strike= 66 Dip=53 Slip=-133
 NP2: 303 54 -48

06 19 00 12.56 16.713S 167.518E 26km
 5.0mb (10 obs.) 5.2Msz (11 obs.)
 VANUATU ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 20S, 35C
 Centroid Location:
 Origin Time 19:00:13.4 0.5
 Lot 16.87S 0.07 Lon 167.75E 0.06
 Dep 15.0 FIX Half-duration 2.4
 Principal Axes:
 Scale 10**17 Nm
 T Vol= 3.08 Plg=69 Azm= 75
 N 0.05 1 168
 P -3.13 21 259
 Best Double Couple: Mo=3.1*10**17
 NP1: Strike=352 Dip=24 Slip= 93
 NP2: 168 66 88

09 05 54 07.13 20.599S 68.803W 101km
 5.3mb (45 obs.)
 CHILE-BOLIVIA BORDER REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 18S, 35C
 Centroid Location:
 Origin Time 05:54:13.2 0.4
 Lot 20.79S 0.04 Lon 68.93W 0.05
 Dep 119.8 2.3 Half-duration 1.8
 Principal Axes:
 Scale 10**17 Nm
 T Vol= 1.43 Plg=22 Azm= 56
 N 0.12 18 154
 P -1.55 61 279
 Best Double Couple: Mo=1.5*10**17
 NP1: Strike=115 Dip=28 Slip=-132
 NP2: 341 70 -71

09 06 53 34.19 23.227N 65.524W 10km
 5.5mb (74 obs.) 5.3Msz (26 obs.)
 NORTH ATLANTIC OCEAN
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 22S, 48C
 Centroid Location:
 Origin Time 06:53:41.3 0.4
 Lot 23.33N 0.04 Lon 66.11W 0.05
 Dep 15.0 BDY Half-duration 2.7
 Principal Axes:
 Scale 10**17 Nm
 T Vol= 5.25 Plg=30 Azm=168
 N 1.71 53 308
 P -6.96 20 66
 Best Double Couple: Mo=6.1*10**17
 NP1: Strike=204 Dip=54 Slip= 172
 NP2: 299 84 36

10 05 52 02.35 43.300N 145.728E 98km
 5.4mb (99 obs.)
 HOKKAIDO, JAPAN REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 14S, 28C
 Centroid Location:
 Origin Time 05:52: 3.7 0.5
 Lot 43.31N 0.07 Lon 145.64E 0.06
 Dep 98.0 5.5 Half-duration 1.7
 Principal Axes:
 Scale 10**16 Nm
 T Vol= 12.22 Plg=31 Azm=333

N -1.69 2 241
 P -10.52 59 148
 Best Double Couple:Mo=1.1*10**17
 NP1:Strike=70 Dip=14 Slip=-81
 NP2: 241 76 -92

10 09 49 25.70 12.525N 93.874E 117km
 5.2mb (44 obs.)
 ANDAMAN ISLANDS REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 16S, 31C
 Centroid Location:
 Origin Time 09:49:37.2 0.4
 Lat 13.18N 0.04 Lon 94.24E 0.05
 Dep 134.1 2.3 Half-duration 2.1
 Principal Axes:
 Scale 10**17 Nm
 T Vol= 1.71 Plg=58 Azm=119
 N 0.12 16 235
 P -1.83 27 333
 Best Double Couple:Mo=1.8*10**17
 NP1:Strike=97 Dip=23 Slip=134
 NP2: 231 74 74

11 03 16 00.05 57.920S 25.449W 33km
 5.4mb (8 obs.)
 SOUTH SANDWICH ISLANDS REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 15S, 31C
 Centroid Location:
 Origin Time 03:16: 7.2 0.5
 Lat 57.99S 0.09 Lon 24.53W 0.12
 Dep 32.9 5.9 Half-duration 1.6
 Principal Axes:
 Scale 10**16 Nm
 T Vol= 9.34 Plg=67 Azm=145
 N -1.41 23 325
 P -7.93 0 55
 Best Double Couple:Mo=8.6*10**16
 NP1:Strike=166 Dip=49 Slip=120
 NP2: 304 49 60

12 04 42 23.62 39.368S 175.902E 67km
 5.3mb (16 obs.)
 NORTH ISLAND, NEW ZEALAND
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 18S, 30C
 Centroid Location:
 Origin Time 04:42:27.6 0.5
 Lat 39.25S 0.09 Lon 175.91E 0.06
 Dep 49.1 6.2 Half-duration 1.8
 Principal Axes:
 Scale 10**16 Nm
 T Vol= 11.98 Plg=40 Azm=349
 N -3.95 49 184
 P -8.03 8 85
 Best Double Couple:Mo=1.0*10**17
 NP1:Strike=135 Dip=57 Slip=25
 NP2: 30 69 144

12 10 42 21.21 45.364N 21.057E 11km
 5.3mb (50 obs.) 5.7MsZ (16 obs.)
 ROMANIA
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 18S, 38C
 Centroid Location:
 Origin Time 10:42:25.4 0.5
 Lat 45.18N 0.05 Lon 21.04E 0.04
 Dep 15.0 FIX Half-duration 2.2
 Principal Axes:
 Scale 10**17 Nm
 T Vol= 2.65 Plg=8 Azm=143
 N -0.20 78 15
 P -2.45 9 235
 Best Double Couple:Mo=2.5*10**17
 NP1:Strike=279 Dip=78 Slip=-1
 NP2: 9 89 -168

13 02 50 14.69 42.182N 125.641W 11km
 6.2mb (87 obs.) 6.9MsZ (30 obs.)
 OFF COAST OF OREGON
 FAULT PLANE SOLUTION: P-Waves
 NP1:Strike=43 Dip=90 Slip=0
 NP2: 313 90 180
 Principal Axes:
 T Plg=0 Azm=88
 P 0 178
 Comment: The focal mechanism is moderately well controlled and corresponds to strike-slip faulting. The preferred fault plane is not determined.

RADIATED ENERGY
 No. of sta: 10 Focal mech. M
 Energy 4.6±1.4*10**15 Nm
 MOMENT TENSOR SOLUTION
 Dep 6 No. of sta: 17
 Principal Axes:
 Scale 10**19 Nm
 T Vol= 1.80 Plg=10 Azm=87
 N 0.18 80 253
 P -1.98 2 356
 Best Double Couple:Mo=1.9*10**19
 NP1:Strike=131 Dip=81 Slip=175
 NP2: 222 85 9
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 22S, 64C M.W.: 22S, 53C
 Centroid Location:
 Origin Time 02:50:20.8 0.1
 Lat 42.09N 0.01 Lon 125.86W 0.01
 Dep 15.6 1.1 Half-duration 10.4
 Principal Axes:
 Scale 10**19 Nm
 T Vol= 2.07 Plg=7 Azm=271
 N -0.03 78 36
 P -2.04 10 180
 Best Double Couple:Mo=2.1*10**19
 NP1:Strike=315 Dip=78 Slip=-178
 NP2: 225 88 -12
 GEOSCOPE MOMENT TENSOR (PAR)
 Data Used: GEOSCOPE
 Dep 40.0 Half-duration 5.0
 Principal Axes:
 Scale 10**19 Nm
 NP1:Strike=128 Dip=75 Slip=179
 NP2: 218 89 15

13 12 15 13.32 48.738N 154.933E 41km
 5.7mb (112 obs.) 5.8MsZ (35 obs.)
 KURIL ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 22S, 60C
 Centroid Location:
 Origin Time 12:15:18.3 0.2
 Lat 48.86N 0.02 Lon 155.22E 0.03
 Dep 27.1 1.6 Half-duration 4.6
 Principal Axes:
 Scale 10**18 Nm
 T Vol= 2.05 Plg=64 Azm=307
 N -0.13 2 214
 P -1.92 26 123
 Best Double Couple:Mo=2.0*10**18
 NP1:Strike=208 Dip=19 Slip=85
 NP2: 34 71 92

14 09 09 11.91 36.334N 71.119E 213km
 6.4mb (101 obs.)
 AFGHANISTAN-USSR BORDER REGION
 FAULT PLANE SOLUTION: P-Waves
 NP1:Strike=94 Dip=47 Slip=75
 NP2: 295 45 106
 Principal Axes:
 T Plg=79 Azm=290
 P 1 195
 Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting with a small right-lateral strike-slip component. The preferred fault plane is NP2.

RADIATED ENERGY
 No. of sta: 10 Focal mech. C
 Energy 2.4±0.4*10**14 Nm
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 25S, 72C M.W.: 13S, 29C
 Centroid Location:
 Origin Time 09:09:15.1 0.2
 Lat 36.12N 0.01 Lon 70.74E 0.02
 Dep 228.3 0.7 Half-duration 7.9
 Principal Axes:
 Scale 10**19 Nm
 T Vol= 1.02 Plg=71 Azm=286
 N 0.15 18 85
 P -1.17 6 177
 Best Double Couple:Mo=1.1*10**19
 NP1:Strike=287 Dip=42 Slip=118
 NP2: 72 54 68

15 15 57 46.74 24.020S 179.784W 505km
 5.2mb (50 obs.)
 SOUTH OF FIJI ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 16S, 27C
 Centroid Location:
 Origin Time 15:57:52.1 1.0
 Lat 23.72S 0.10 Lon 179.46W 0.06
 Dep 513.7 4.3 Half-duration 1.7
 Principal Axes:
 Scale 10**16 Nm
 T Vol= 10.61 Plg=37 Azm=63
 N 0.21 3 331
 P -10.82 53 237
 Best Double Couple:Mo=1.1*10**17
 NP1:Strike=171 Dip=9 Slip=-70
 NP2: 331 82 -93

17 07 12 09.39 50.935N 130.162W 10km
 5.1mb (55 obs.) 5.3MsZ (20 obs.)
 VANCOUVER ISLAND REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 16S, 37C
 Centroid Location:
 Origin Time 07:12:14.1 0.5
 Lat 50.92N 0.05 Lon 130.86W 0.07
 Dep 15.0 FIX Half-duration 2.3
 Principal Axes:
 Scale 10**17 Nm
 T Vol= 2.35 Plg=10 Azm=284
 N -0.32 79 79
 P -2.04 5 194
 Best Double Couple:Mo=2.2*10**17
 NP1:Strike=329 Dip=80 Slip=176
 NP2: 59 86 10

17 16 41 24.83 3.989S 104.094W 10km
 5.0mb (16 obs.) 5.5MsZ (9 obs.)
 NORTHERN EASTER I. CORDILLERA
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 21S, 50C
 Centroid Location:
 Origin Time 16:41:33.1 0.4
 Lat 3.80S 0.04 Lon 104.21W 0.04
 Dep 15.0 FIX Half-duration 2.6
 Principal Axes:
 Scale 10**17 Nm
 T Vol= 3.50 Plg=4 Azm=319
 N -0.10 67 219
 P -3.40 23 50
 Best Double Couple:Mo=3.5*10**17
 NP1:Strike=92 Dip=71 Slip=-14
 NP2: 187 77 -161

18 04 54 46.99 8.122S 121.760E 32km
 5.4mb (29 obs.) 5.0MsZ (13 obs.)
 FLORES ISLAND REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 21S, 46C
 Centroid Location:
 Origin Time 04:54:56.7 0.3
 Lat 7.61S 0.03 Lon 122.40E 0.04
 Dep 43.7 2.7 Half-duration 2.8
 Principal Axes:
 Scale 10**17 Nm
 T Vol= 4.98 Plg=4 Azm=239
 N 0.82 83 117
 P -5.80 6 329
 Best Double Couple:Mo=5.4*10**17
 NP1:Strike=14 Dip=83 Slip=-1
 NP2: 104 89 -173

18 09 50 36.77 8.224N 94.112E 27km
 5.4mb (63 obs.) 5.0MsZ (16 obs.)
 NICOBAR ISLANDS REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 16S, 31C
 Centroid Location:
 Origin Time 09:50:41.6 1.2
 Lat 8.37N 0.04 Lon 94.29E 0.11
 Dep 41.9 4.2 Half-duration 2.2
 Principal Axes:
 Scale 10**17 Nm
 T Vol= 2.05 Plg=3 Azm=297
 N 0.00 87 137
 P -2.06 1 28
 Best Double Couple:Mo=2.1*10**17
 NP1:Strike=73 Dip=87 Slip=1

NP2: 342 89 177
18 11 56 30.65 44.888N 22.407E 12km
5.7mb (64 obs.) 5.5Msz (15 obs.)
ROMANIA
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=300 Dip=65 Slip= -30
NP2: 44 63 -152
Principal Axes:
T Plg= 1 Azm=352
P 38 261
Comment: The focal mechanism is poorly controlled and corresponds to strike-slip faulting with a large normal component. The preferred fault plane is not determined.
RADIATED ENERGY
No. of sta: 13 Focal mech. M
Energy 1.1±0.3*10**12 Nm
MOMENT TENSOR SOLUTION
Dep 18 No. of sta: 11
Principal Axes:
Scale 10**17 Nm
T Vol= 1.27 Plg= 1 Azm=206
N 0.04 17 115
P -1.31 73 299
Best Double Couple:Mo=1.3*10**17
NP1:Strike=313 Dip=47 Slip= -66
NP2: 99 48 -113
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 29C
Centroid Location:
Origin Time 11:56:38.5 1.8
Lat 44.88N 0.14 Lon 22.43E 0.08
Dep 15.0 BDY Half-duration 2.5
Principal Axes:
Scale 10**17 Nm
T Vol= 2.83 Plg= 2 Azm=189
N 0.14 26 98
P -2.96 64 282
Best Double Couple:Mo=2.9*10**17
NP1:Strike=303 Dip=49 Slip= -54
NP2: 75 52 -124
18 14 28 53.50 13.233N 144.125E 104km
5.4mb (23 obs.)
MARIANA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 35C
Centroid Location:
Origin Time 14:28:57.9 0.6
Lat 13.04N 0.05 Lon 144.18E 0.06
Dep 94.3 4.8 Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Vol= 8.72 Plg=21 Azm=122
N -0.03 10 216
P -8.69 66 331
Best Double Couple:Mo=8.7*10**16
NP1:Strike=194 Dip=26 Slip= -115
NP2: 41 67 -79
19 01 27 32.06 45.312N 21.053E 10km
5.3mb (26 obs.) 4.9Msz (4 obs.)
ROMANIA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 30C
Centroid Location:
Origin Time 01:27:35.0 1.3
Lat 44.79N 0.17 Lon 20.93E 0.12
Dep 15.0 FIX Half-duration 1.9
Principal Axes:
Scale 10**16 Nm
T Vol= 4.33 Plg= 3 Azm=332
N 1.16 69 235
P -5.49 21 63
Best Double Couple:Mo=4.9*10**16
NP1:Strike=106 Dip=73 Slip= -13
NP2: 199 77 -163
20 11 48 47.18 54.565N 161.654W 33km
5.8mb (111 obs.) 5.5Msz (32 obs.)
ALASKA PENINSULA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 24S, 64C
Centroid Location:
Origin Time 11:48:51.5 0.2
Lat 54.59N 0.03 Lon 161.03W 0.04

Dep 28.9 2.4 Half-duration 3.2
Principal Axes:
Scale 10**17 Nm
T Vol= 7.89 Plg=63 Azm=322
N 0.71 1 230
P -8.60 27 139
Best Double Couple:Mo=8.2*10**17
NP1:Strike=226 Dip=18 Slip= 86
NP2: 50 72 91
21 22 59 09.61 3.008N 128.434E 34km
5.9mb (74 obs.) 5.2Msz (19 obs.)
NORTH OF HALMAHERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 20S, 44C
Centroid Location:
Origin Time 22:59:15.1 0.2
Lat 3.33N 0.03 Lon 128.51E 0.03
Dep 67.1 2.9 Half-duration 2.7
Principal Axes:
Scale 10**17 Nm
T Vol= 4.92 Plg=57 Azm= 67
N 0.25 19 189
P -5.17 26 288
Best Double Couple:Mo=5.1*10**17
NP1:Strike= 54 Dip=25 Slip= 138
NP2: 183 73 70
23 11 22 10.09 5.826N 125.983E 147km
5.6mb (59 obs.)
MINDANAO, PHILIPPINE ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 38C
Centroid Location:
Origin Time 11:22:14.7 0.4
Lat 6.23N 0.04 Lon 126.14E 0.04
Dep 145.9 1.2 Half-duration 2.3
Principal Axes:
Scale 10**17 Nm
T Vol= 2.69 Plg=52 Azm=221
N 0.09 31 359
P -2.77 21 102
Best Double Couple:Mo=2.7*10**17
NP1:Strike=232 Dip=37 Slip= 149
NP2: 348 72 58
23 13 25 47.32 3.775N 95.932E 47km
5.8mb (109 obs.) 5.1Msz (22 obs.)
OFF W COAST OF NORTHERN SUMATERA
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 80 Dip=73 Slip= 110
NP2: 209 26 42
Principal Axes:
T Plg=57 Azm= 17
P 25 154
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. M
Energy 1.6±0.5*10**12 Nm
MOMENT TENSOR SOLUTION
Dep 51 No. of sta: 9
Principal Axes:
Scale 10**17 Nm
T Vol= 2.99 Plg=55 Azm= 33
N 0.22 21 269
P -3.21 26 168
Best Double Couple:Mo=3.1*10**17
NP1:Strike=218 Dip=27 Slip= 37
NP2: 95 74 112
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 43C
Centroid Location:
Origin Time 13:25:48.4 0.4
Lat 3.90N 0.05 Lon 95.83E 0.05
Dep 42.3 BDY Half-duration 2.7
Principal Axes:
Scale 10**17 Nm
T Vol= 3.21 Plg=36 Azm=359
N 0.12 10 261
P -3.33 52 158
Best Double Couple:Mo=3.3*10**17
NP1:Strike=132 Dip=13 Slip= -38
NP2: 260 82 -100

23 19 44 50.24 15.679S 71.574W 5km
5.0mb (10 obs.) 4.7Msz (2 obs.)
SOUTHERN PERU
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 26C
Centroid Location:
Origin Time 19:44:53.6 0.8
Lat 15.85S 0.08 Lon 70.88W 0.09
Dep 24.2 7.1 Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Vol= 9.82 Plg= 9 Azm=342
N -1.51 77 210
P -8.31 10 74
Best Double Couple:Mo=9.1*10**16
NP1:Strike=118 Dip=77 Slip= 0
NP2: 208 90 -167
23 21 16 32.10 6.122S 130.227E 109km
5.6mb (42 obs.)
BANDA SEA
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=155 Dip=85 Slip= 166
NP2: 246 76 5
Principal Axes:
T Plg=13 Azm=110
P 6 201
Comment: The focal mechanism is well controlled and corresponds to strike-slip faulting with a small reverse component. The preferred fault plane is not determined.
MOMENT TENSOR SOLUTION
Dep 123 No. of sta: 4
Principal Axes:
Scale 10**17 Nm
T Vol= 6.38 Plg= 4 Azm=291
N 0.28 81 178
P -6.66 9 22
Best Double Couple:Mo=6.5*10**17
NP1:Strike= 66 Dip=81 Slip= -4
NP2: 157 86 -171
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 32C
Centroid Location:
Origin Time 21:16:34.6 1.0
Lat 6.21S 0.07 Lon 130.26E 0.08
Dep 112.1 2.3 Half-duration 1.9
Principal Axes:
Scale 10**17 Nm
T Vol= 1.31 Plg=13 Azm=105
N 0.63 77 299
P -1.94 3 196
Best Double Couple:Mo=1.6*10**17
NP1:Strike=241 Dip=79 Slip= 7
NP2: 150 83 169
24 03 27 51.58 16.028S 73.657W 56km
5.1mb (22 obs.)
NEAR COAST OF PERU
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 25C
Centroid Location:
Origin Time 03:27:56.7 0.7
Lat 16.14S FIX;Lon 73.83W FIX
Dep 56.0 FIX Half-duration 1.8
Principal Axes:
Scale 10**16 Nm
T Vol= 10.87 Plg=48 Azm=190
N -4.72 17 300
P -6.15 37 43
Best Double Couple:Mo=8.5*10**16
NP1:Strike=191 Dip=17 Slip= 162
NP2: 298 85 73
24 09 36 37.34 32.229N 138.766E 245km
5.1mb (74 obs.)
SOUTH OF HONSHU, JAPAN
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 20C
Centroid Location:
Origin Time 09:36:39.7 0.9
Lat 32.29N 0.10 Lon 138.75E 0.13
Dep 247.5 6.6 Half-duration 1.7
Principal Axes:
Scale 10**16 Nm
T Vol= 10.14 Plg=42 Azm=120
N -2.31 1 211

P	-7.83	48	302	NP1:Strike=166 Dip=43 Slip=-73	29 13 52 39.81 14.220S 73.945W 96km
Best Double Couple:Mo=9.0*10**16				NP2: 324 49 -105	5.5mb (54 obs.)
NP1:Strike=193 Dip= 3 Slip=-108					PERU
NP2: 31 87 -89					CENTROID, MOMENT TENSOR (HRV)
24 09 45 41.89 36.520N 44.066E 26km				25 15 46 00.59 16.882N 101.390W 33km	Data Used: GDSN
5.4mb (90 obs.) 5.1Msz (17 obs.)				5.4mb (65 obs.) 5.4Msz (15 obs.)	L.P.B.: 17S, 32C
IRAN-IRAQ BORDER REGION				NEAR COAST OF GUERRERO, MEXICO	Centroid Location:
CENTROID, MOMENT TENSOR (HRV)				CENTROID, MOMENT TENSOR (HRV)	Origin Time 13:52:45.9 0.6
Data Used: GDSN				Data Used: GDSN	Lat 14.26S 0.04 Lon 73.67W 0.07
L.P.B.: 21S, 43C				Centroid Location:	Dep 114.3 1.8 Half-duration 1.9
Centroid Location:				Origin Time 15:46: 0.5 0.7	Principal Axes:
Origin Time 09:45:46.4 0.6				Lat 16.65N 0.10 Lon 101.41W 0.10	Scale 10**17 Nm
Lot 36.40N 0.06 Lon 43.77E 0.05				Dep 15.0 FIX Half-duration 3.0	T Vol= 1.85 Plg= 2 Azm=317
Dep 15.0 BDY Half-duration 2.2				Principal Axes:	N -0.30 41 225
Principal Axes:				Scale 10**17 Nm	P -1.55 49 50
Scale 10**17 Nm				T Vol= 5.59 Plg=16 Azm= 51	Best Double Couple:Mo=1.7*10**17
T Vol= 2.25 Plg=69 Azm=326				N -0.59 30 312	NP1:Strike= 81 Dip=56 Slip= -38
N -0.19 21 132				P -5.00 56 165	NP2: 194 60 -139
P -2.06 5 224				Best Double Couple:Mo=5.3*10**17	
Best Double Couple:Mo=2.2*10**17				NP1:Strike=176 Dip=39 Slip= -38	
NP1:Strike=335 Dip=44 Slip= 121				NP2: 298 67 -123	
NP2: 116 53 64					
24 13 54 52.06 18.274S 34.856E 32km				27 09 39 32.80 1.831N 90.555W 10km	30 05 16 05.04 30.049N 131.186E 31km
5.2mb (42 obs.) 4.7Msz (9 obs.)				5.0mb (11 obs.) 5.2Msz (3 obs.)	5.0mb (35 obs.) 5.1Msz (2 obs.)
MOZAMBIQUE				GALAPAGOS ISLANDS REGION	KYUSHU, JAPAN
CENTROID, MOMENT TENSOR (HRV)				CENTROID, MOMENT TENSOR (HRV)	CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN				Data Used: GDSN	Data Used: GDSN
L.P.B.: 14S, 19C				L.P.B.: 21S, 45C	L.P.B.: 13S, 23C
Centroid Location:				Centroid Location:	Centroid Location:
Origin Time 13:54:52.4 0.8				Origin Time 09:39:39.8 0.7	Origin Time 05:16: 3.0 0.9
Lot 18.30S 0.10 Lon 34.62E 0.05				Lat 1.60N 0.06 Lon 90.76W 0.07	Lat 30.21N 0.09 Lon 131.70E 0.08
Dep 24.7 4.9 Half-duration 2.3				Dep 15.0 FIX Half-duration 2.5	Dep 59.9 5.9 Half-duration 1.5
Principal Axes:				Principal Axes:	Principal Axes:
Scale 10**16 Nm				Scale 10**17 Nm	Scale 10**16 Nm
T Vol= 4.72 Plg= 0 Azm= 90				T Vol= 3.20 Plg=23 Azm= 36	T Vol= 7.51 Plg=56 Azm= 9
N 0.91 0 180				N 0.73 65 192	N 1.35 33 208
P -5.63 90 180				P -3.93 9 302	P -8.85 9 112
Best Double Couple:Mo=5.2*10**16				Best Double Couple:Mo=3.6*10**17	Best Double Couple:Mo=8.2*10**16
NP1:Strike=180 Dip=45 Slip= -90				NP1:Strike= 77 Dip=68 Slip= 170	NP1:Strike=169 Dip=46 Slip= 41
NP2: 0 45 -90				NP2: 171 81 23	NP2: 48 62 128
25 15 25 29.89 17.818N 95.046W 127km				28 11 12 07.25 0.989N 120.591E 616km	30 09 39 39.63 18.889N 145.154E 595km
5.4mb (74 obs.)				5.5mb (49 obs.)	5.0mb (55 obs.)
OAXACA, MEXICO				MINAHASSA PENINSULA	MARIANA ISLANDS
CENTROID, MOMENT TENSOR (HRV)				CENTROID, MOMENT TENSOR (HRV)	CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN				Data Used: GDSN	Data Used: GDSN
L.P.B.: 19S, 42C				L.P.B.: 12S, 22C	L.P.B.: 11S, 15C
Centroid Location:				Centroid Location:	Centroid Location:
Origin Time 15:25:33.7 0.3				Origin Time 11:12: 7.6 1.0	Origin Time 09:39:41.4 1.1
Lat 17.89N 0.03 Lon 95.20W 0.03				Lat 0.77N 0.09 Lon 120.78E 0.11	Lat 18.88N FIX;Lon 145.13E FIX
Dep 132.9 1.1 Half-duration 2.7				Dep 589.5 7.4 Half-duration 1.9	Dep 595.0 FIX Half-duration 2.5
Principal Axes:				Principal Axes:	Principal Axes:
Scale 10**17 Nm				Scale 10**17 Nm	Scale 10**17 Nm
T Vol= 3.53 Plg= 3 Azm= 65				T Vol= 1.69 Plg=39 Azm=160	T Vol= 1.21 Plg=24 Azm=247
N 0.46 11 334				N -0.42 23 50	N 0.52 20 148
P -3.99 78 169				P -1.28 42 298	P -1.72 58 22
Best Double Couple:Mo=3.8*10**17				Best Double Couple:Mo=1.5*10**17	Best Double Couple:Mo=1.5*10**17
				NP1:Strike=315 Dip=23 Slip= -5	NP1:Strike= 12 Dip=28 Slip= -43
				NP2: 50 88 -113	NP2: 141 71 -111

Compiled by Pingsheng Chang, Willis S. Jacobs, Christino K. Lovonne, John H. Minsch, Russell E. Needham, Waverly J. Person
Bruce W. Presgrave and William H. Schmieder.

Corrections to Previous Monthly Listings

The listing of the South Sandwich Islands earthquake of June 15, 1991 should read:

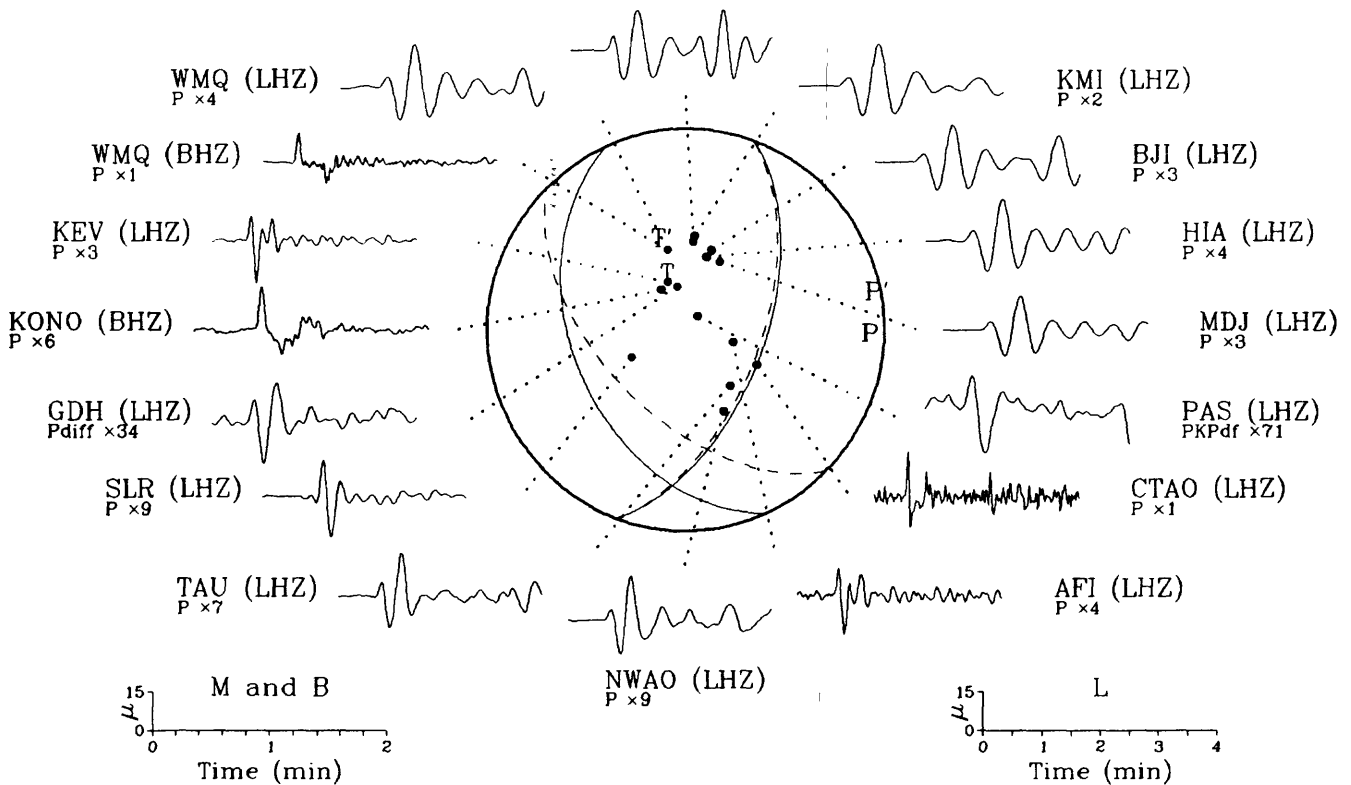
o 15 01 13 21.4 58.285 S 24.183 W 52 D 5.8 6.5 1.2 190 SOUTH SANDWICH ISLANDS REGION. Ms 6.3 (BRK).
Mo=5.0*10**18 Nm (PPT).

The comment for the fault plane solution for the Southern Peru earthquake at 20:50:55 UTC on May 14, 1991 should read:

The focal mechanism is moderately well controlled and corresponds to normal faulting with a small right-lateral strike-slip component.

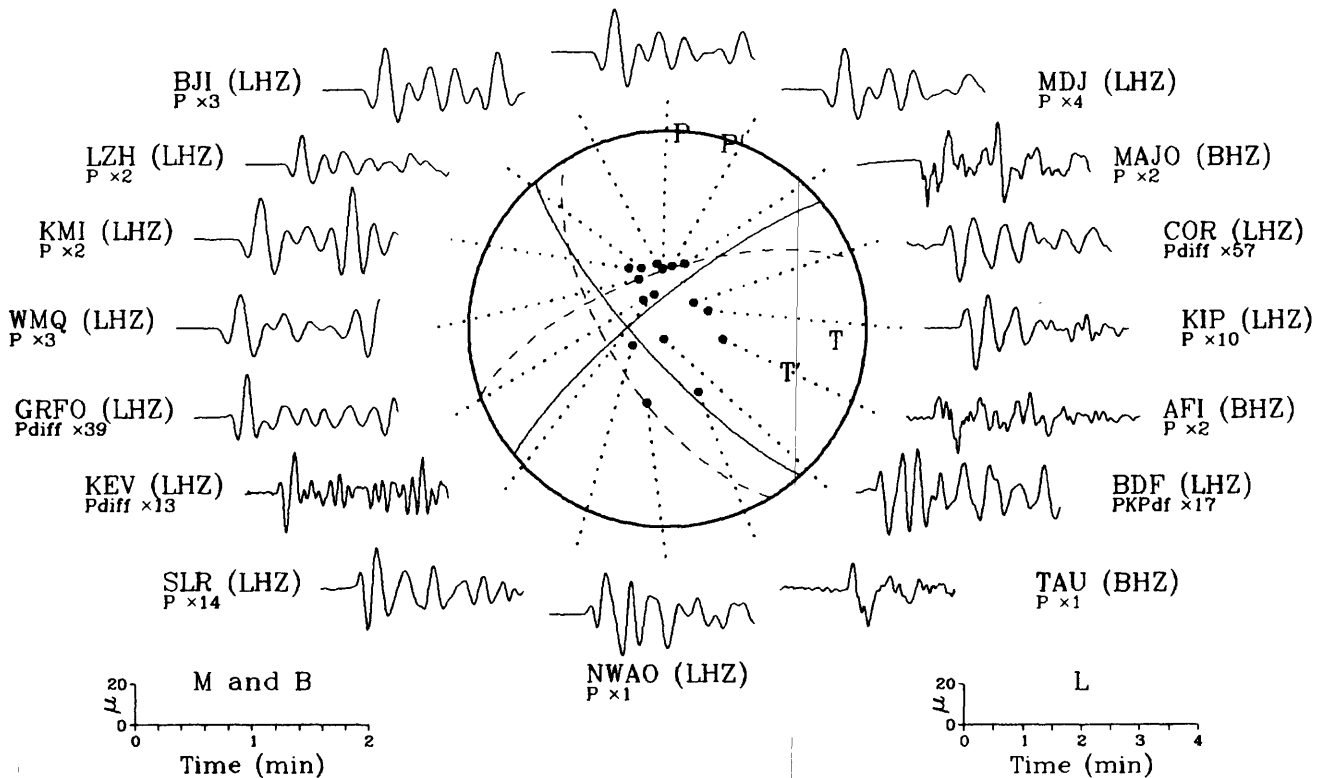
02 July 1991 05:14:30.19
Southern Sumatera

LZH (LHZ)
P x6



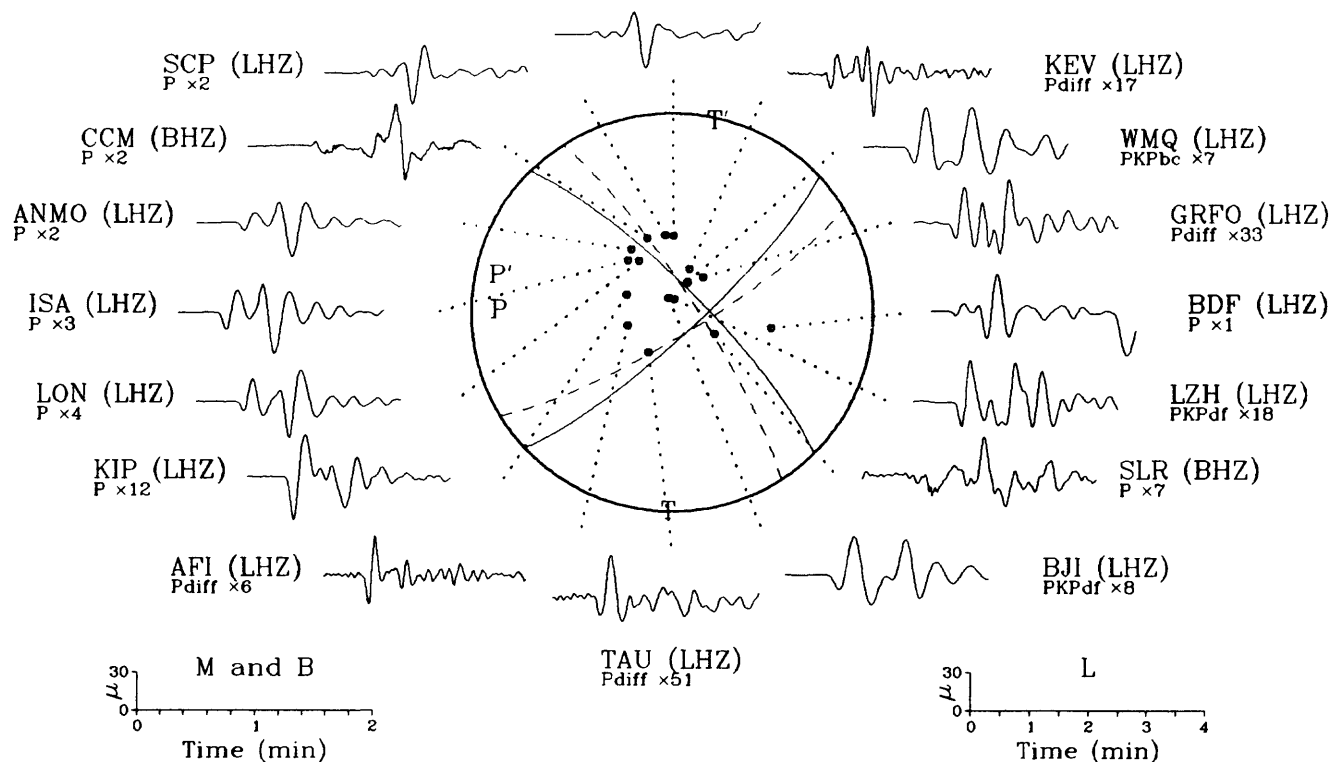
04 July 1991 11:43:10.49
Timor

HIA (LHZ)
P x4



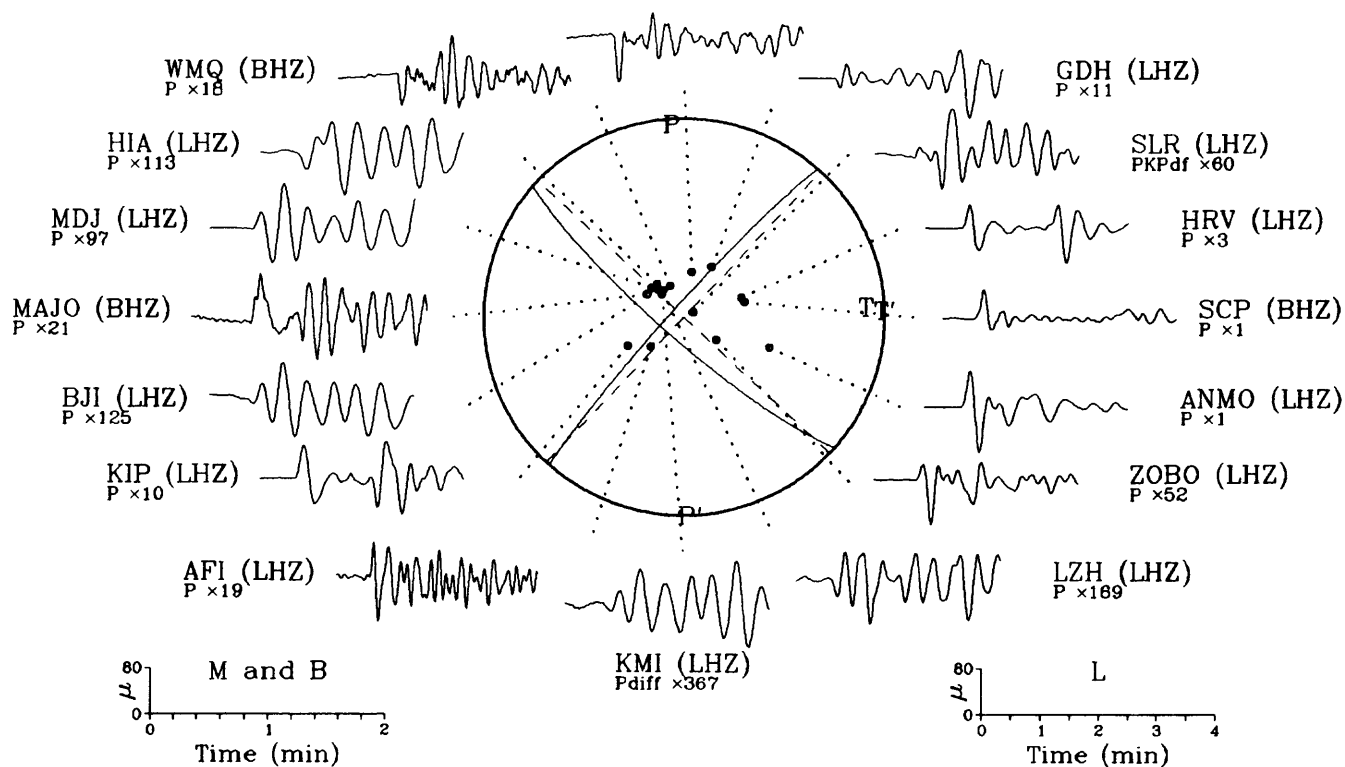
06 July 1991 12:19:49.56

Peru

HRV (LHZ)
P x2

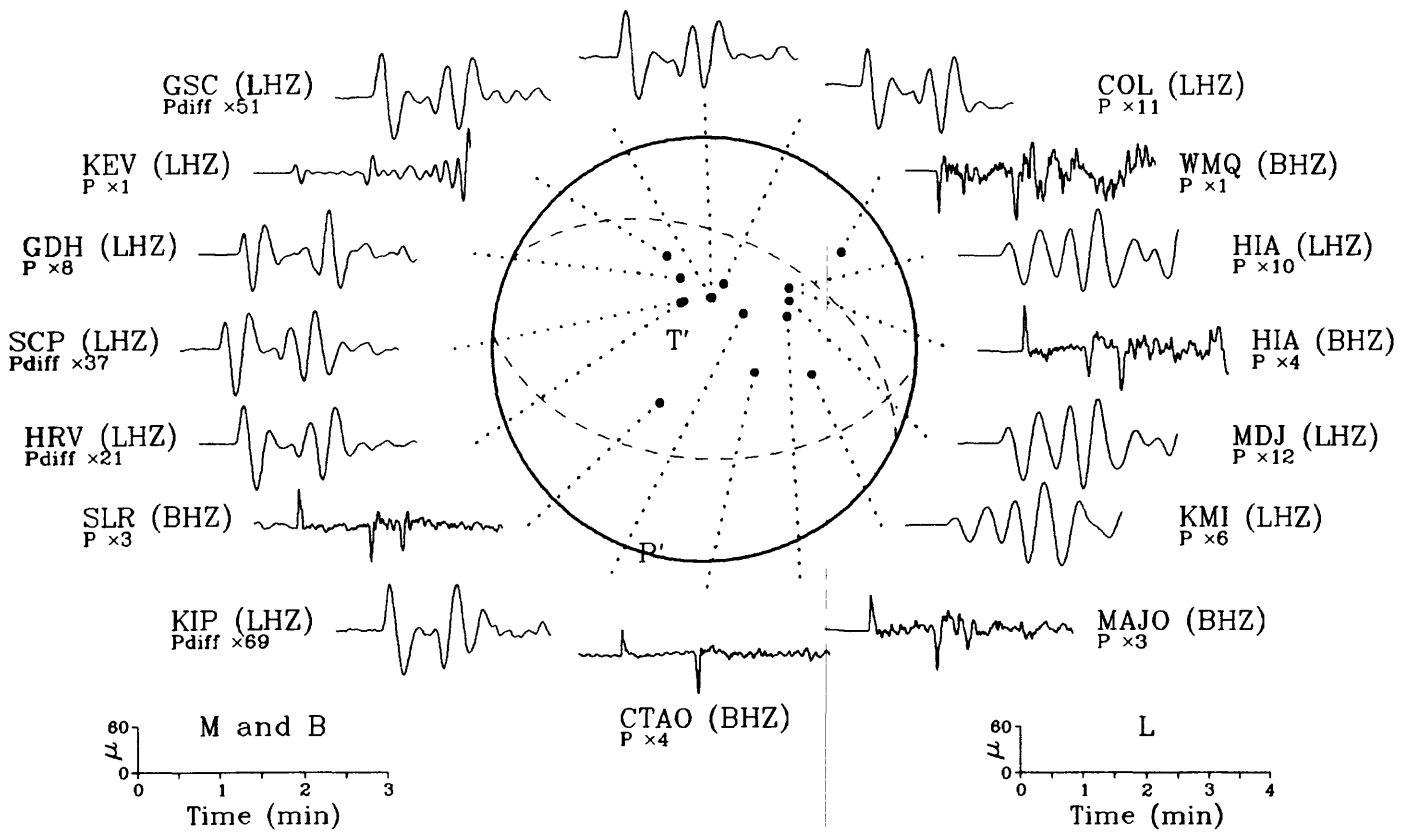
13 July 1991 02:50:14.69

Off Coast of Oregon

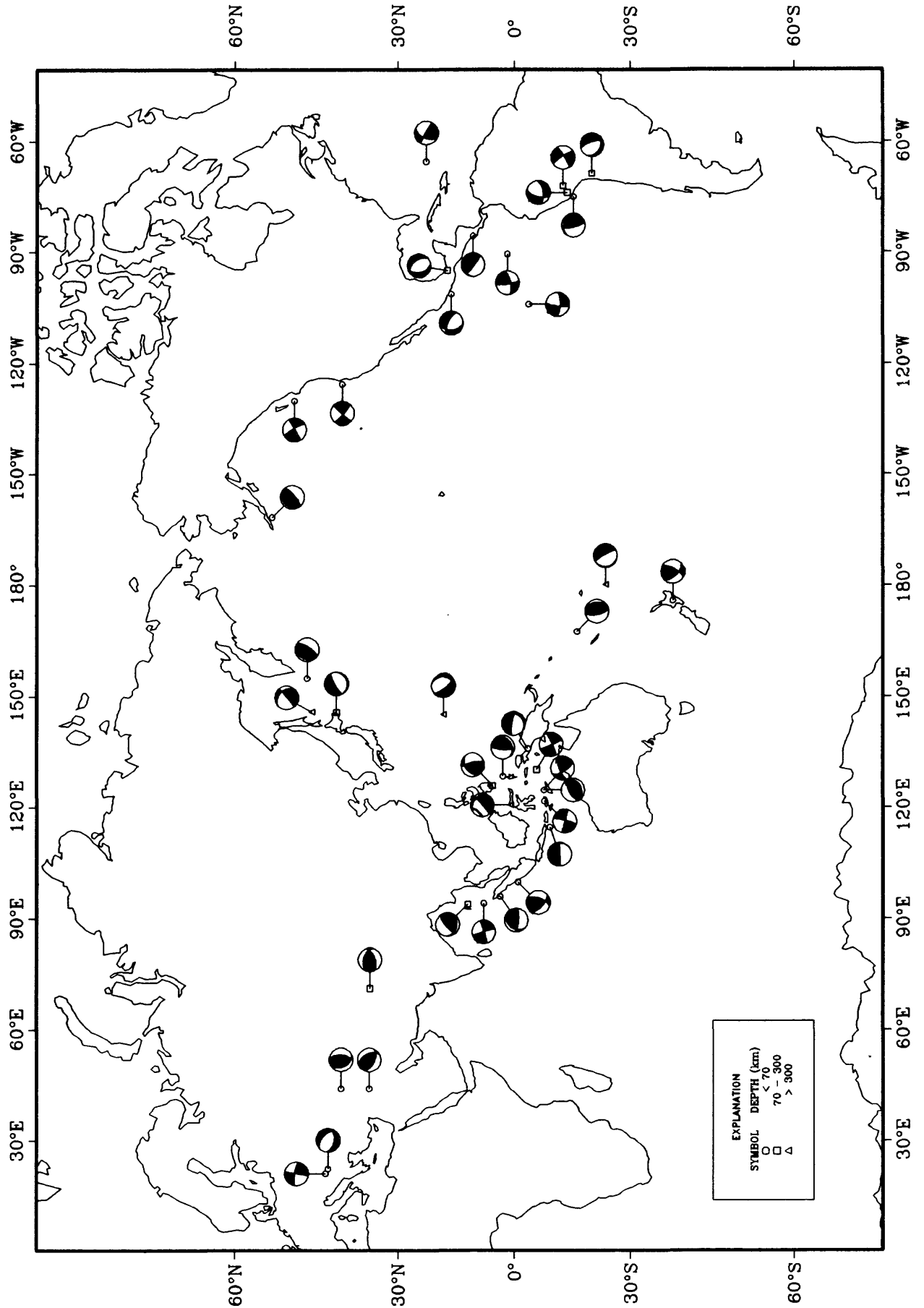
KEV (BHZ)
P x12

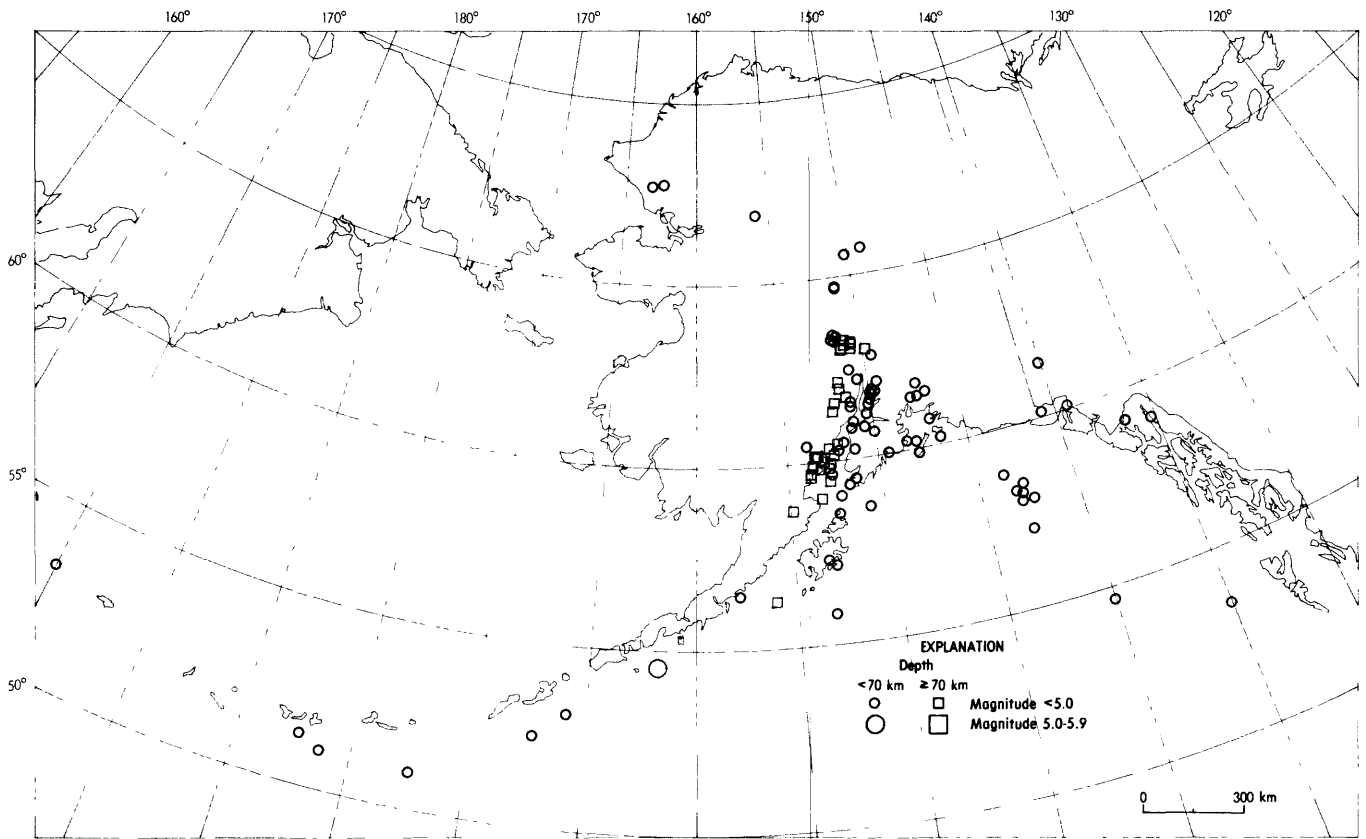
14 July 1991 09:09:11.91
Afghanistan-USSR Border Region

PAS (LHZ)
Pdiff $\times 52$

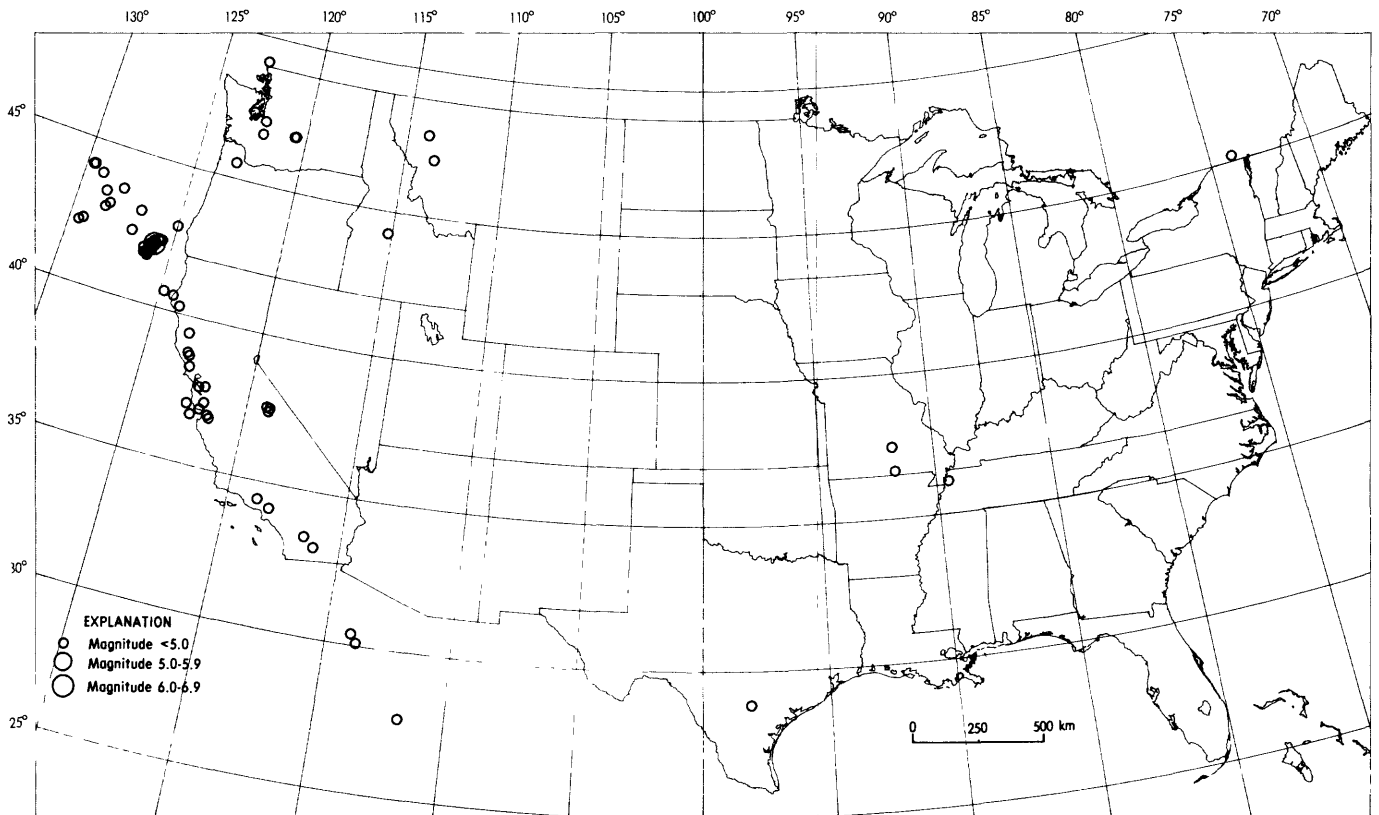


Earthquake Focal Mechanisms for July 1991

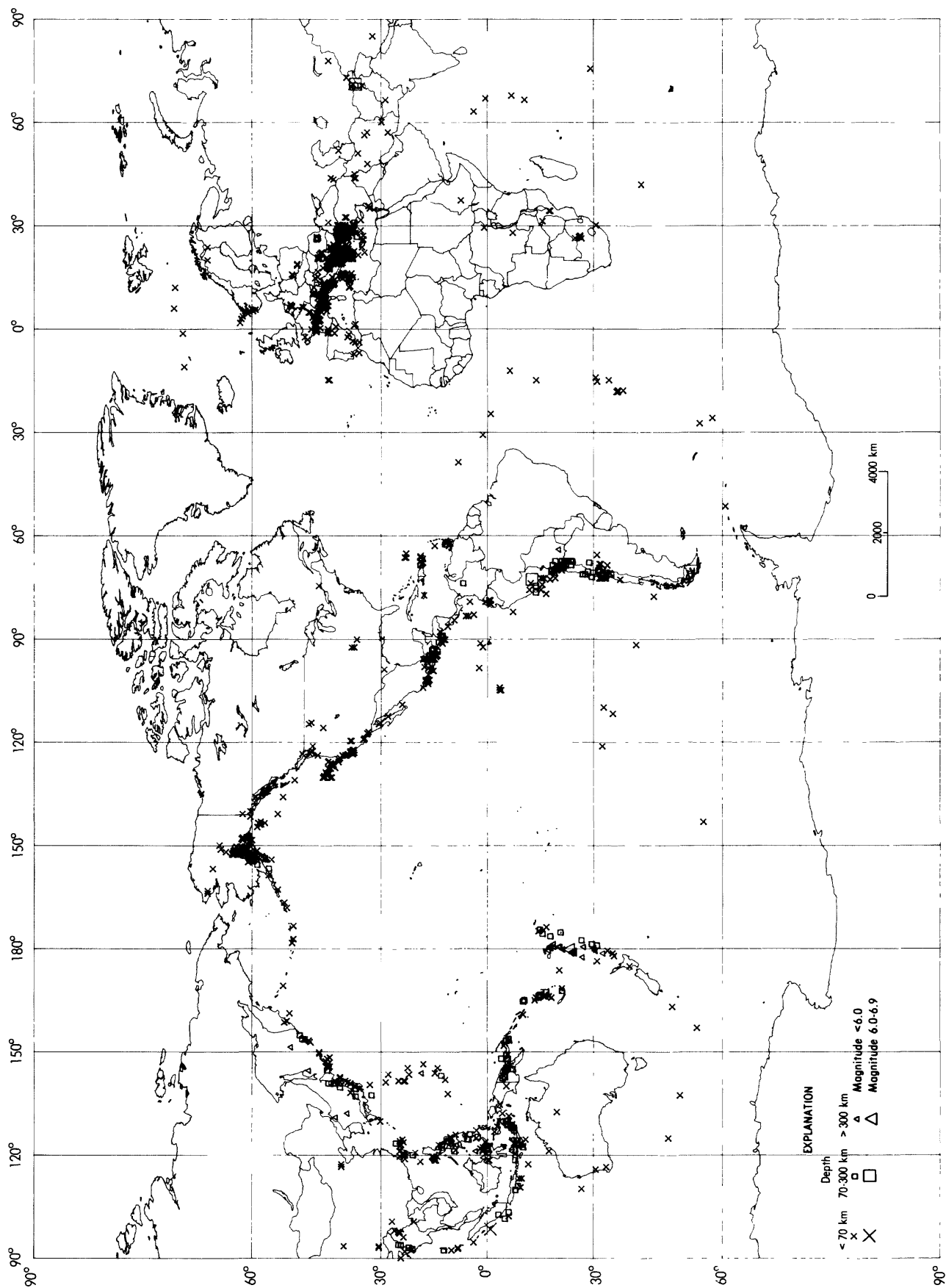




Earthquake epicenters in Alaska and adjacent regions for July, 1991 (C. Stover).



Earthquake epicenters in the conterminous United States and adjacent regions for July, 1991 (C. Stover).



Earthquakes located in July, 1991 (C. Stover).

EXPLANATION OF ABBREVIATIONS AND SYMBOLS APPEARING IN THIS PUBLICATION

Abbreviations in Heading

- MB - Body wave magnitudes.
 MSZ - Vertical surface wave magnitudes.
 UTC - Coordinated Universal Time. HR MN SEC - Hour, minute, second.
 SD - Standard Deviation from the arithmetic mean of residuals.
 No. Sto - Number of stations reporting P or PKP phases used in computation.
 KEY - (Printed vertically). A symbol in this column indicates additional source parameters and/or a focal sphere
 are published for this event in separate sections which follow the list of hypocenters. The symbols are:
 o - Additional source parameters
 f - Additional source parameters plus focal sphere

Symbols and Abbreviations Used in Comments

- AEIC Alaska Earthquake Information Center (U.S. Geological Survey and University of Alaska), College.
 APT University of Connecticut.
 BGS British Geological Survey, Edinburgh, United Kingdom.
 BLA Virginia Polytechnic Institute and State University, Blacksburg.
 BOU University of Colorado, Boulder.
 BRK University of California, Berkeley.
 BUT Montana Bureau of Mines and Geology, Butte.
 CL Coda length magnitude.
 CLE John Carroll University, Cleveland, Ohio.
 DOE U.S. Department of Energy (formerly AEC and ERDA).
 EXPLO Some or all parameters of explosion (controlled or accidental) supplied by any group or individual other than
 DOE or its predecessor organizations.
 GLD U.S. Geological Survey, Golden, Colorado (other than NEIS).
 GM U.S. Geological Survey, Menlo Park, California.
 GS U.S. Geological Survey, National Earthquake Information Service (NEIS), Golden, Colorado.
 HDC Observatorio Vulcanológico y Sismológico de Costa Rica, Universidad Nacional, Heredia, Costa Rica.
 HRV Harvard University, Cambridge, Massachusetts.
 HVO Hawaiian Volcano Observatory.
 JMA Japan Meteorological Agency, Tokyo (also used to indicate 7-point Japanese Intensity Scale).
 LAK Kansas Geological Survey, University of Kansas, Lawrence.
 LDG Laboratoire de Detection et de Geophysique, Bruyeres-le-Chotel, France.
 MACRO Hypocenter based upon macroseismic information.
 MD Duration magnitude (shown as DUR prior to 1986).
 MDD Instituto Geografico Nacional, Madrid, Spain.
 MG Contributed local or regional magnitude of unspecified type (see "Contributed Magnitudes" below).
 MW Moment Magnitude.
 OTT Geological Survey of Canada, Earth Physics Branch, Ottawa.
 PAL Columbia University, Lamont-Doherty Geological Observatory, Palisades, New York.
 PAR Institute de Physique du Globe, Universite Pierre et Marie Curie, Paris, France.
 PAS California Institute of Technology, Pasadena.
 PGC Pacific Geoscience Centre, Sidney, British Columbia, Canada.
 PMR Alaska Tsunami Warning Center, Palmer, Alaska.
 PPT Laboratoire de Geophysique, Papeete, French Polynesia.
 QDM Queensland Department of Mines, Brisbane, Australia.
 REN University of Nevada, Reno.
 RF Rossi-Forel Intensity Scale.
 SEA University of Washington, Seattle.
 SLC University of Utah, Salt Lake City.
 SLM St. Louis University, Missouri.
 SPEC An NEIS solution based on use of dense local networks, a local crustal model, or other methods not routinely
 applied in calculating the hypocenter parameters.
 TEIC Center for Earthquake Research and Information, Memphis, Tennessee.
 TUL Oklahoma Geological Survey, Leonard.
 UVC Universidad del Valle, Cali, Colombia.
 WES Weston Observatory, Massachusetts.
 Raman Used to indicate intensity (when not followed by RF or JMA they refer to the Modified Mercalli Scale or any
 Numerals 12-point intensity scale closely related to it).
 • " Geographic degrees, minutes, seconds.
 -P Supplied hypocenter is a preliminary computation.

Any additional 3 to 5 letter codes enclosed in parentheses or angle brackets refer to individual station codes. These codes may be found in Geological Survey Open File Report 85-714, Seismograph Station Codes and Coordinates (1985). Addendo to OF 85-714 are printed at the end of the Earthquake Data Report for this month.

Symbols Following Depth

- N Indicates the depth was restrained at 33 km for earthquakes whose character on seismograms indicates a shallow focus but whose depth is not satisfactorily determined by the data.
 D Indicates the depth was restrained by the computer program based on 2 or more compatible pP phases and/or unidentified secondary arrivals used as pP.
 G Indicates the depth was restrained by a geophysicist.
 * Indicates a less well-constrained free depth. The 90% marginal confidence interval on depth is greater than 8.5 km and less than or equal to 16.0 km.
 ? Indicates a poorly-constrained free depth. The 90% marginal confidence interval on depth is greater than 16.0 km.

The lack of any symbol indicates that the 90% marginal confidence interval on depth is less than or equal to 8.5 km, or that a contributed hypocenter was computed with a free depth, regardless of the size of the confidence interval.

Symbols Following Origin Time

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

The lack of any symbol indicates that the geometric mean of the semi-major and semi-minor axes of the horizontal 90% confidence ellipse is less than or equal to 8.5 km.

APPROXIMATE CORRELATION OF GRADES FOR INTENSITY SCALES
REPORTED IN PRELIMINARY DETERMINATION OF EPICENTERS

U.S.A. Modified Mercalli (M.M.), 1931	Japanese, 1950 (JMA)	Rossi-Forel, 1873 (RF)	European (Mercalli - Conconi-Sieberg), 1917
I	0	I	I
II	I	I-II	II
III	II	III	III
IV	II-III	IV-V	IV
V	III	V-VI	V
VI	IV	VI-VII	VI
VII	IV-V	VIII-	VII
VIII	V	VIII+-IX	VIII
IX	V-VI	IX+	IX
X	VI	X	X
XI	VII	X	XI
XII	VII	X	XII

TRAVEL-TIME TABLES

In general, all hypocenters have been computed based on the 1940 Jeffreys-Bullen P and 1968 Bolt PKP travel-time tables. Some other earth model or computational procedure may have been used for those hypocenters which have been indicated by an ampersand (&) following the origin time.

MACROSEISMIC INFORMATION

Macroseismic information is compiled from various sources, including newspaper articles, Foreign Broadcast Information Service messages, U.S. Geological Survey Earthquake Reports and seismological station reports. Macroseismic information for southwestern France is contributed by Dr. Pierre Stohl, Pau. Sources of information for particular events can be supplied on request from: U.S. Geological Survey, National Earthquake Information Center, Stop 967, Box 25046, Denver Federal Center, Denver, CO 80225, U.S.A.

GEOGRAPHIC REGIONS

The regions shown in the comments column are from the seismic and geographical regionalization of Flinn, Engdahl and Hill (1974), with occasional name changes which have been given in various issues of the Monthly Listing. The boundaries of these regions are defined at one degree intervals and differ slightly from irregular political boundaries.

DEPTHS FROM BROADBAND DISPLACEMENT SEISMOGRAMS

The NEIS routinely interprets broadband data from the GDSN and RSTN using methods described by Horvey and Choy (1982) and by Choy and Boatwright (1981) for events with $M_B \geq 5.8$. The notation that a depth is obtained from broadband seismograms indicates that a depth was obtained by inversion of differential travel times of depth phases that are clearly identifiable at several stations using broadband records that are flat to displacement between approximately 0.01 and 5.0 Hz.

Choy, G. L. and Engdahl, E. R., 1987, Analysis of broadband seismograms from selected IASPEI events: Physics of the Earth and Planetary Interiors, v. 47, p. 80-92.

Horvey, D. and Choy, G. L., 1982, Broadband deconvolution of GDSN data: Geophysical Journal of the Royal Astronomical Society, v. 69, p. 659-668.

FAULT PLANE SOLUTIONS

A fault plane solution is determined when possible for any earthquake having a magnitude ≥ 5.8 , using first motions from P, PKP, pP and pPKP waves. A description of the solution is reported in the Additional Focal Parameters section of the Preliminary Determination of Epicenters Monthly Listing. First motion data used to compute the solution are available upon request from the National Earthquake Information Center at the address given above.

NEIS MAGNITUDES

All magnitudes are NEIS magnitudes unless otherwise indicated. Beginning with August, 1983, average magnitudes are computed by a 25% trimmed mean as described by Rosenberger, J. L. and Gasko, M., 1983, "Comparing location estimators: trimmed means, medians, and trimean" in Understanding Robust and Exploratory Data Analysis, ed Hoaglin, D.C., Mosteller, F., and Tukey, J. W., John Wiley, New York.

Ms These surface wave magnitudes are computed from the I.A.S.P.E.I. formula:

$$M_s = \log (A/T) + 1.66 \log D + 3.3$$

where:

A is the maximum ground amplitude in micrometers (microns) of the vertical component of the surface wave within the period range $18 \leq T \leq 22$.

T is the period in seconds.

D is the distance in geocentric degrees (station to epicenter) and $20^\circ \leq D \leq 160^\circ$

No depth corrections are applied, and M_s magnitudes are not generally computed for depths greater than 50 km. The M_s value published is the average of the individual station magnitudes from reported T and A data.

If the uncertainty of the computed depth is considered great enough that the depth could be less than 50 km, an M_s value may still be published, computed by the I.A.S.P.E.I. formula and not corrected for depth.

In general, the M_s magnitude is more reliable than the M_b magnitude as a means of yielding the relative "size" of a shallow-focus earthquake.

M_b These compressional body wave (P-wave) magnitudes are computed according to the formula:

$$M_b = \log (A/T) + Q(D,h)$$

defined by Gutenberg and Richter (1956) except that T, the period in seconds, is restricted to $0.1 \leq T \leq 3.0$ and A, the ground amplitude in micrometers, is not necessarily the maximum in the P group. Q is a function of of distance (D) and depth (h) where $D \geq 5^\circ$.

$mblg$ These Lg body wave magnitudes are computed according to the formula:

$$mblg = 3.75 + 0.90 \log D + \log (A/T) \text{ for } 0.5^\circ \leq D \leq 4^\circ$$

$$mblg = 3.30 + 1.66 \log D + \log (A/T) \text{ for } 4^\circ \leq D \leq 30^\circ$$

as proposed by Nuttli (1973) where A is the ground amplitude in micrometers and T is the period in seconds calculated from the vertical component 1-second Lg waves. D is the distance in geocentric degrees.

ML These local magnitudes are computed according to the formula:

$$M_L = \log A - \log A_0$$

defined by Richter (1935) where A is the maximum trace amplitude in micrometers recorded on a standard short-period torsion seismometer and $\log A_0$ is a standard value as a function of distance where distance ≤ 600 km.

CONTRIBUTED MAGNITUDES

Magnitudes appearing in the comments which have been contributed by organizations operating a network of stations may have been calculated from any one station in the network or may be an average magnitude from a number of stations from the network.

Beginning with January, 1986, a contributed magnitude of unspecified type may be quoted (using the designator MG) for events which have no other magnitudes given or computed. These MG magnitudes either have been reported by the contributor without listing the type (such as "Mag 3.5") or have been computed using procedures which are not defined by the magnitude types routinely reported in this bulletin. Direct inquiries should be made to the contributor (shown in parentheses after the magnitude) concerning the specific details of the computational procedures used to determine these values.

REFERENCES

- Gutenberg, B., and Richter, C. F., 1956, Magnitude and energy of earthquakes: *Annali di Geofisica*, v. 9, no. 1, p. 1-15.
- Nuttli, O. W., 1973, Seismic wave attenuation and magnitude relations for eastern North America: *Journal of Geophysical Research*, v. 78, no. 5, p. 876-885.
- Richter, C. F., 1935, An instrumental earthquake scale: *Bulletin of the Seismological Society of America*, v. 25, p. 1-32.

FOCAL MECHANISM MAPS

Best double couple focal mechanisms are plotted as lower-hemisphere, equal-area projections for earthquakes having a seismic moment greater than 1×10^{17} Nm. The shaded quadrants represent compressional first motions. For each event, the mechanism shown is selected from either the Fault Plane Solution, Moment Tensor Solution or Centroid, Moment Tensor Solution. All these solutions are given in the Additional Source Parameters section of the Monthly Listing.

WAVEFORM PLOTS

Each month selected events with $MB \geq 5.8$ will be shown. For each event, up to sixteen body phase waveforms will be selected for display around the periphery of an equal area plot of the lower hemisphere of the focal sphere. Each waveform will be connected by a dotted line to a symbol marking the corresponding azimuth and take-off angle on the focal sphere. For reference, the nodal planes, compression axis (P), and tension axis (T) will also be plotted when solutions are available. The dominant double couple of the USGS moment tensor will be shown in solid lines with the axes designated by P and T respectively. The NEIS first motions fault plane solution will be shown in dashed lines with the axes designated by P' and T' respectively. If both solutions are available, the primed axes may be suppressed unless they are sufficiently different from the unprimed axes. Each event will be titled with its origin date-time and Flinn-Engdahl region name to facilitate cross-referencing with the Monthly Listing text.

Each waveform will be identified by station code, data type, phase name and scale factor. The data type will be identified by a code conforming with the channel-naming conventions adopted for the Standard for the Exchange of Earthquake Data (SEED) by the Federation of Digital Seismograph Networks. Long period channels, designated by LH or LL (where the second letter denotes a high-gain channel, H, or a low-gain channel, L) will display approximately one-half minute of noise followed by three minutes of signal. Time and amplitude are referenced to a set of axes labeled L and shown at the bottom of each plot. The scale factor is an integer from which absolute amplitude, in micrometers of ground displacement at the dominant period of the pass-band (25 sec), may be determined. Absolute amplitude may be recovered by measuring the amplitude of the seismogram relative to the amplitude axis and dividing it by the scale factor. Note that long period channels with pass-bands which extend well into the microseism noise peak will be processed for presentation using a four-pole Butterworth low-pass filter with a corner at 25 sec. period. Other data types are indicated by BH or BL (broad-band), MH or ML (mid-band), SH or SL (short period), or EH or EL (extremely short period). As these types of data have different pass-bands than long period data, different time and amplitude scales will generally be needed. These scales will be labeled M and B for broad-band and mid-band and S and E for short and extremely short period and will be shown at the bottom of each plot as needed. As with the long period waveforms, the absolute amplitudes of the other data types may be recovered from the amplitude scale and the scale factor. For broad-band and mid-band data, the absolute amplitude is referenced to 10 seconds. For short and extremely short period data, the absolute amplitude is referenced to 1 second. Broad-band and mid-band data will be processed to be proportional to displacement from 0.01 Hz to at least 2 Hz. In some cases, BH channels will be synthesized by combining LH and SH data. In addition, each component will be identified by a direction indicator (i.e. N, E, Z, R and T for north-south, east-west, vertical, radial, and transverse, respectively). Note that the dominant period approximation will not be valid for broad-band, mid-band or some long period data. However, the scaling will still be correct.

Waveforms will primarily be selected to display variations in the P waveform as a function of azimuth. If space permits, some PKP waveforms may be shown as well. To this end, waveforms which are clipped, non-linear, or very noisy will be rejected. Further, only one of several stations at similar distance and azimuth may be used if all show similar waveforms. Note that the importance of a record in focal parameter derivation will not be considered. Thus, many seismograms will be shown which have not been used in the USGS moment tensor solution. Conversely, records which have been important in constraining one or both solutions may have been passed over for lack of space. The data are derived from globally distributed digital stations collected by the USGS Albuquerque Seismological Laboratory from a number of cooperating networks. For details on data sources, see the National Earthquake Information Center Newsletter.

R. P. Buland and M. Zirbes, U.S. Geological Survey, Mail Stop 967, Box 25046, Denver Federal Center, Denver, CO 80225 USA

USGS RADIATED ENERGY

The energy radiated by an earthquake is estimated from the energy spectral density of the broadband P waves, using the method described by Boatwright and Choy (1986), where the energy flux in the P waves is integrated directly. No correction for source directivity or frequency-dependent interference of the depth phases is incorporated into these estimates of radiated energy. Data used are either direct P waves (for deep earthquakes) or the P wave group consisting of P, pP and sP (for shallow earthquakes) from GDSN and other stations that contribute digital data to the NEIC within two months of the occurrence of an event. The data are processed using the method of Harvey and Choy (1982) so that they are flat to velocity from low frequencies (generally 0.01 Hz) to at least 2.0 Hz. The effect of attenuation is corrected with the frequency-dependent t_a of Choy and Cormier (1986). The focal mechanism used is either the P-wave first-motion solution (F), the USGS moment tensor solution (M) or the Harvard centroid solution (C).

Boatwright, J. and Choy, G. L., 1986, Teleseismic estimates of the energy radiated by shallow earthquakes: *Journal of Geophysical Research*, v. 91, p. 2095-2112.

Choy, G. L. and Cormier, V. F., 1986, Direct measurement of the mantle attenuation operator from broadband P and S waveforms: *Journal of Geophysical Research*, v. 91, p. 7326-7342.

Harvey, D. and Choy, G. L., 1982, Broadband deconvolution of GDSN data: *Geophysical Journal of the Royal Astronomical Society*, v. 69, p. 659-668.

EXPLANATION OF THE ENTRIES "MOMENT TENSOR SOLUTION" (USGS)

These solutions have been determined using the body-wave moment tensor inversion method described by Sipkin (1982).

1. NUMBER OF STATIONS: Number of GDSN stations with distances between approximately 30 and 95 degrees found to have suitable P waveforms. Only long-period vertical components are used.
2. DEPTH: The source depth which gives the smallest normalized mean-squared-error. This is the only hypocentral parameter determined since the inversion procedure is insensitive to small errors in both epicenter and origin time.
3. SCALE)
4. PRINCIPAL AXES) See "Centroid, Moment Tensor (HRV)"
5. BEST DOUBLE COUPLE)

S. A. Sipkin, U.S. Geological Survey, Mail Stop 967, Box 25046, Denver Federal Center, Denver, CO 80225 USA

Sipkin, S. A., 1982, Estimation of earthquake source parameters by the inversion of waveform data: synthetic seismograms: *Physics of the Earth and Planetary Interiors*, v. 30, no. 2-3, p. 242-259.

EXPLANATION OF THE ENTRIES "GEOSCOPE MOMENT TENSOR (PAR)"

These solutions have been obtained from very long period Rayleigh wave data in the period range 180–310 seconds (R1 and R2 trains) using a two step moment tensor inversion method as described in Romanowicz and Guilleminot (1984) and Romanowicz and Monfret (1986). Parameters solved for are centroid time, seismic moment, depth and moment tensor. Origin time and epicentral coordinates are kept fixed as given in the USGS Quick Epicenter Determinations (QED) or PDE. For shallow earthquakes the precision on depth is in general no greater than ± 10 km.

The data used presently come from GEOSCOPE teletransmitted stations (usually 8 – 10 stations) and are available within a week after the event. The solutions are computed by the Institut de Physique du Globe, Université Pierre et Marie Curie, Paris, France.

Romanowicz, B. and Guilleminot, P., 1984, An experiment in the retrieval of depth and source mechanism of large earthquakes using very long-period Rayleigh wave data: *Bulletin of the Seismological Society of America*, v. 74, no. 2, p. 417–437.

Romanowicz, B. and Monfret, T., 1986, Source process times and depths of large earthquakes by moment tensor inversion of mantle wave data and the effect of lateral heterogeneity: *Annales de Geophysique*, v. B4, no. 3, p. 271–282.

EXPLANATION OF THE ENTRIES "CENTROID, MOMENT TENSOR (HRV)"

These solutions have been determined using the long period body and mantle wave moment tensor inversion method described by Dziewonski, et al. (1981) considering corrections due to an aspherical earth structure of model SH8/U4L8 (Dziewonski and Woodward, 1991).

1. DATA USED: currently GDSN, GSN and IDA/IRIS data are used. The numbers following the entries L, P, BODY WAVES and MANTLE WAVES indicate the number of stations (S), total number of records (C) and T is the cut-off period of the low pass filter for each of the subsets of data. Mantle waves are routinely used in inversion for sources with moments greater than 5×10^{18} Newton-meters (Nm).
2. CENTROID LOCATION: hypocentral parameters obtained by adding perturbations resulting from inversion to the parameters reported in the PDE; standard errors follow the individual entries. If a given parameter is not perturbed in inversion, this is indicated by the letters FLX. If the depth is fixed to be consistent with waveform matching of reconstructed broad-band body waves (Ekstrom, 1989), this is indicated by the letters BDY. The default depth for shallow earthquakes is increased to 15 km in order to improve the stability of solutions; it was 10 km in 1981–1985.
3. PRINCIPAL AXES: rotation of the moment tensor, constrained to have zero trace, into the principal axes system. Most of the solutions are predominantly of the double couple type: the largest positive eigenvalue corresponds to the tension axis (T); the usually small, intermediate eigenvalue is associated with the null axis (N); the smallest negative eigenvalue is identified with the compression axis (P). PLG are the plunges and AZM are the azimuths of the axes.
4. BEST DOUBLE COUPLE: If the eigenvalue (T) is σ_1 and (P) is $-\sigma_2$, then the scalar seismic moment is defined as $M_0 = 1/2(\sigma_1 + \sigma_2)$. The strike, dip and slip of the first (NP1) and second (NP2) nodal planes are calculated from the directions of the P, T, and N axes. The remainder is a linear-vector dipole (Knopoff and Randall, 1970); in most cases the magnitude of LVD is small. Although all such decompositions are highly non-unique, this particular one is the best in estimating the starting solution for the non-linear, constrained double couple inverse problem. The angles strike, dip, and slip are defined using the convention of Aki and Richards (1980, p. 106) and are the angles designated there as ϕ_s , δ , λ , respectively.

A. M. Dziewonski, G. Ekstrom and M. P. Solgonik, Department of Earth and Planetary Sciences, Harvard University, Cambridge, MA 02138

Aki, K. and Richards, P. G., *Quantitative Seismology*, Volume 1, W. H. Freeman, San Francisco, 1980, 557 pp.

Dziewonski, A. M., Chou, T. A., and Woodhouse, J. H., 1981, Determination of earthquake source parameters from waveform data for studies of global and regional seismicity: *Journal of Geophysical Research*, v. 86, p. 2825–2852.

Dziewonski, A. M. and Woodward, R. L., 1991, Acoustic imaging at the planetary scale, in *Acoustical Imaging*, Vol. 19, E. Ermert and H.-P. Horjes, eds., Plenum Press (in press).

Ekstrom, G., 1989, A very broad band inversion method for the recovery of earthquake source parameters: *Tectonophysics*, v. 166, p. 73–100.

Knopoff, L. and Randall, M. J., 1970, The compensated linear-vector dipole: A possible mechanism for deep earthquakes: *Journal of Geophysical Research*, v. 75, p. 4957–4963.

OTHER SEISMIC MOMENTS

1. The seismic moment (M_0) contributed by the University of California, Berkeley (BRK), is given for regional earthquakes based on Wood-Anderson torsion seismograms recorded within 300 km of the epicenter with peak-to-peak amplitudes of at least 3 mm. This seismic moment (M_0) in dyne-cm is defined by $\text{Log } M_0 = 16.74 + 1.22 \text{Log}(C\Delta)$, where C is the maximum peak-to-peak amplitude in mm, Δ is the duration in seconds from the time of the S-wave onset to the last time that the peak-to-peak amplitude exceeds C/3, and Δ is the epicentral distance in km. Seismic moments quoted in "Preliminary Determination of Epicenters" are converted to Newton-meters (1 Newton-meter = 10^9 dyne-cm).

Bolt, B. A. and Herroiz, M., 1983, Simplified estimation of seismic moment from seismograms: *Bulletin of the Seismological Society of America*, v. 73, p. 735–748.

2. Beginning with November, 1988, seismic moments for selected events have been contributed by the Laboratoire de Geophysique, Pepee, French Polynesia (PPT). These moments are computed from the mantle Rayleigh wave using the method of Talandier, Raymond and Okal (1987).

Talandier, J., Raymond, D. and Okal, E. A., 1987, Use of a variable period mantle magnitude for the rapid one-station estimation of seismic moments: *Geophysical Research Letters*, v. 14, no. 8, p. 840–843.



PRELIMINARY DETERMINATION OF EPICENTERS

MONTHLY LISTING

U.S. DEPARTMENT OF THE INTERIOR / GEOLOGICAL SURVEY National Earthquake Information Center

AUGUST 1991

K E Y	DAY	ORIGIN TIME UTC HR MN SEC	GEOGRAPHIC COORDINATES LAT LONG	DEPTH	MAGNITUDES GS MB Msz	SD	NO. STA USED	REGION, CONTRIBUTED MAGNITUDES AND COMMENTS
	01	01 11 48 9*	40.475 S 72.123 W	10 G	4.7	0.6	13	CENTRAL CHILE
	01	01 25 12 0?	17.07 N 61.10 W	10 G		0.4	7	LEEWARD ISLANDS. ML 2.8 (FDF).
	01	01 25 16 6*	24.062 N 125.838 E	10 G	4.0	0.7	9	SOUTHWESTERN RYUKYU ISLANDS
	01	01 56 06.3?	30.04 N 67.92 E	33 N	4.7	0.8	8	PAKISTAN
	01	02 00 35 0*	33.755 S 70.724 W	33 N		1.3	9	CHILE-ARGENTINA BORDER REGION Felt (II) in the Santiago, Chile area.
a	01	03 22 42 1	27.073 S 176.313 W	13 D	5.5 4.9	1.0	69	KERMADEC ISLANDS REGION. Mo=2.0*10**17 Nm (PPT).
	01	03 39 19 0*	17.895 S 178.788 W	571 *	5.3	1.1	24	FIJI ISLANDS REGION
	01	03 56 30 1*	39.462 N 25.644 E	10 G		0.8	7	AEGEAN SEA. MD 3.1 (ATH).
	01	04 38 43 7?	5.74 S 146.66 E	131 ?	4.1	1.5	6	EAST PAPUA NEW GUINEA REGION
	01	05 02 29 5*	62.311 N 151.414 W	88			42	CENTRAL ALASKA. <AEIC>.
o	01	05 22 19 7	17.082 S 174.400 E	13	5.1 5.0	1.2	63	FIJI ISLANDS REGION
	01	05 57 04 1?	39.654 N 15.293 E	10 G		0.2	6	SOUTHERN ITALY
	01	06 04 03 5	18.028 S 173.595 E	33 N	4.7 5.2	0.8	36	FIJI ISLANDS REGION
	01	06 13 05 6*	43.948 N 7.174 E	10 G		0.3	6	NEAR SOUTH COAST OF FRANCE
	01	06 14 18 8	38.779 N 24.851 E	10 G		1.2	20	AEGEAN SEA. ML 3.0 (ATH).
	01	08 12 52 2?	46.98 N 0.69 W	5 G		1.3	6	FRANCE. ML 2.6 (LDG).
	01	08 24 53 2?	37.869 N 14.530 E	10 G		0.6	8	SICILY
	01	08 32 01 7*	42.583 N 19.033 E	10 G		0.6	9	YUGOSLAVIA. ML 1.7 (TTG).
	01	08 44 47 3*	41.457 N 15.274 E	10 G		1.3	8	SOUTHERN ITALY
	01	08 45 01 9	40.328 N 13.778 E	10 G	3.3	1.3	33	TYRRHENIAN SEA
	01	08 48 29 1?	33.40 S 72.24 W	10 G		0.5	6	OFF COAST OF CENTRAL CHILE
	01	09 04 09 8?	3.98 N 77.29 W	10 G		0.6	6	NEAR WEST COAST OF COLOMBIA
	01	11 07 50 8*	59.551 N 152.281 W	63			30	SOUTHERN ALASKA. <AEIC>.
	01	11 20 31 7*	41.208 N 28.521 E	10 G		0.6	6	TURKEY
	01	11 32 26 6?	30.42 S 69.72 W	33 N		1.2	7	CHILE-ARGENTINA BORDER REGION
	01	11 56 04 7?	43.81 N 7.26 E	10 G		0.7	7	NEAR SOUTH COAST OF FRANCE
	01	12 17 13 5?	9.63 S 124.39 E	33 N	4.7	0.9	5	TIMOR
	01	12 27 38 8*	60.034 N 153.202 W	126			36	SOUTHERN ALASKA. <AEIC>.
	01	12 57 24 3	45.447 N 21.069 E	19 *		0.8	11	ROMANIA. MG 3.7 (BEO).
	01	12 58 21 8	26.316 S 27.291 E	5 G		1.5	10	REPUBLIC OF SOUTH AFRICA. mbLg 3.6 (BUL).
	01	13 21 54 6	36.017 N 139.977 E	61 *	4.4	1.2	18	HONSHU, JAPAN
	01	14 08 36 8?	34.56 S 179.60 E	361 ?		0.5	24	SOUTH OF KERMADEC ISLANDS
	01	14 22 35 2	41.125 N 23.603 E	5 G		0.9	10	GREECE-BULGARIA BORDER REGION
	01	14 51 58 0*	4.033 N 76.283 W	10 G		0.8	5	COLOMBIA. MD 2.6 (UVC).
	01	15 16 47 9*	36.575 N 71.079 E	79 ?	4.5	0.5	12	AFGHANISTAN-USSR BORDER REGION
	01	16 02 16 2*	37.743 N 15.012 E	10 G		0.9	6	SICILY
	01	17 21 32 4	46.690 N 10.494 E	5		1.0	53	NORTHERN ITALY. ML 3.2 (STR), 3.1 (KBA), 3.1 (LDG), 3.0 (FUR), 3.0 (GRF).
	01	17 38 37 1	39.378 N 20.809 E	10 G		0.7	11	GREECE-ALBANIA BORDER REGION. MD 3.2 (ATH), 3.0 (THE).
	01	17 43 33 2*	45.429 N 20.799 E	10 G		1.2	6	YUGOSLAVIA
	01	18 00 52 0?	24.73 S 179.92 W	550 ?	4.5	0.4	8	SOUTH OF FIJI ISLANDS
	01	18 40 12 8	52.504 N 175.118 W	147	4.7	1.0	106	ANDREANOF ISLANDS, ALEUTIAN IS Felt (IV) on Adak.
	01	21 01 06 0*	46.758 N 4.173 E	5 G		0.4	5	FRANCE. ML 1.5 (LDG).
	01	21 09 48.3	39.528 N 20.086 E	10 G	3.4	0.9	18	GREECE-ALBANIA BORDER REGION. MD 3.5 (ATH), 3.3 (THE).
	01	22 00 16 4?	37.698 N 15.161 E	10 G		0.3	5	SICILY
	01	22 37 59 4	56.911 N 154.616 W	74 *	3.9	1.0	55	KODIAK ISLAND REGION
	01	23 30 39 8	13.263 N 60.397 W	33 N		0.5	12	WINDWARD ISLANDS. MD 3.6 (TRN).
	01	23 59 25 6*	39.253 N 27.892 E	10 G		1.2	10	TURKEY
	02	00 19 34.3*	63.373 N 151.205 W	13			23	CENTRAL ALASKA. <AEIC>. ML 2.7 (AEIC), 3.0 (PMR).
	02	00 36 41 6	38.411 N 21.831 E	10 G		1.0	8	GREECE. ML 3.2 (ATH), MD 3.1 (THE)
	02	00 51 04.7	45.262 N 21.087 E	26		1.2	52	ROMANIA. ML 4.0 (TTG), 4.0 (ZAG), MD 4.7 (TRI).
	02	00 59 56.4*	60.486 N 153.701 W	7			31	SOUTHERN ALASKA. <AEIC> ML 2.8 (AEIC). Preceded 47 seconds earlier by a small foreshock (AEIC).
	02	01 28 26.7*	32.880 N 117.630 W	6 G			12	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.2 (PAS).
	02	01 58 06.0*	45.095 N 2.995 E	10 G		1.5	6	FRANCE. ML 1.9 (LDG), 1.9 (STR).
	02	02 04 14.9	51.555 N 6.950 E	10 G		1.3	18	GERMANY. ML 2.2 (BNS). MD 2.7 (UCC). Felt in the Recklinghausen area.

02	02	27	24.5*	5.455 N	78.687 W	33 N	3.8	1.1	10	SOUTH OF PANAMA
02	03	51	33.3%	38.881 N	30.180 E	10 G		0.4	9	TURKEY
02	04	05	11 4	78.331 N	8.029 E	10 G	4.4 4.0	1.1	30	SVALBARD REGION
02	05	35	22 8*	17.242 N	95.088 W	10 G		1.3	6	OAXACA, MEXICO
02	06	27	14 5	10.286 N	125.175 E	22	5.0 4.8	1.2	56	LEYTE, PHILIPPINE ISLANDS
02	07	21	28 8%	61.488 N	4.280 E	10 G		0.6	5	SOUTHERN NORWAY. MD 1.9 (BER).
02	07	43	42 8%	59.744 N	152.716 W	78			34	SOUTHERN ALASKA. <AEIC>.
02	07	47	42 6?	15.83 N	59.91 W	33 N		1.3	7	LEEWARD ISLANDS. ML 2.7 (FDF).
02	08	29	02.5	32.969 S	70.917 W	85 *		0.3	11	CHILE-ARGENTINA BORDER REGION
02	08	57	52.9%	37.062 N	3.918 W	10 G		1.2	12	SPAIN. mbLg 3.2 (MDD).
02	10	07	50.7%	17.086 N	62.319 W	13		0.4	10	LEEWARD ISLANDS. ML 2.9 (FDF).
02	11	06	16.7?	2.43 N	76.20 W	10 G		0.1	5	COLOMBIA. MD 2.8 (UVC).
02	12	03	11.2?	3.06 S	139.41 E	33 N	4.6	1.3	7	WEST IRIAN
02	13	02	24.7?	8.93 S	118.22 E	169 ?	4.3	1.0	9	SUMBAWA ISLAND REGION
02	13	57	46.5%	63.296 N	151.328 W	12			47	CENTRAL ALASKA. <AEIC>. ML 2.9 (AEIC). 3.2 (PMR).
02	14	35	07.3?	23.68 N	109.14 W	10 G	3.8	1.1	7	BAJA CALIFORNIA
02	14	41	45.0%	38.710 N	27.676 E	10 G		0.4	5	TURKEY
02	16	39	14.4?	7.95 S	127.76 E	150 ?	4.6	1.3	5	BANDA SEA
02	16	52	22.3*	16.209 S	175.040 W	336 *	4.9	0.8	40	TONGA ISLANDS
02	16	58	24.8?	26.73 N	112.41 W	10 G	4.0	0.8	7	BAJA CALIFORNIA
02	18	51	28.3?	38.69 N	23.30 E	10 G		0.7	5	GREECE. MD 2.6 (THE).
02	19	41	23.2	38.338 N	22.235 E	10 G		1.1	13	GREECE. ML 2.9 (ATH). MD 3.0 (THE).
02	19	53	04.6*	3.665 N	76.501 W	21 *		0.7	6	COLOMBIA. MD 2.5 (UVC).
02	19	54	04.4%	57.795 N	152.786 W	45	4.5		65	KODIAK ISLAND REGION. <AEIC>. ML 3.7 (AEIC). 4.0 (PMR). Felt (IV) at Kodiak.
02	20	36	20 8*	33.643 S	70.797 W	33 N		1.5	6	CHILE-ARGENTINA BORDER REGION
02	20	36	29.9%	40.728 N	22.741 E	10 G		0.2	5	GREECE. MD 1.5 (THE).
02	20	58	40.0?	1.16 S	78.33 W	10 G		0.4	7	ECUADOR. MD 3.9 (QUI).
02	21	03	57.6%	36.445 N	121.055 W	5			11	CENTRAL CALIFORNIA. <BRK>. ML 2.5 (BRK).
02	23	08	54.2	14.567 S	167.311 E	152 D	5.1	1.0	93	VANUATU ISLANDS
02	23	18	54.6	56.691 N	157.641 W	107	4.7	0.8	102	ALASKA PENINSULA. Felt (IV) at Chignik.
02	23	39	32.8?	22.05 S	174.89 W	33 N	4.9	1.1	25	TONGA ISLANDS REGION
o 03	00	49	03.2%	40.393 N	125.423 W	5	4.9 4.9		199	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 4.7 (BRK). Mo=5.3*10**15 Nm (BRK). Felt (III) at Rio Dell and Honeydew. Also felt at Arcata and Eureka.
03	01	09	27.7	8.924 N	137.894 E	20 D	4.8 4.1	1.0	22	WEST CAROLINE ISLANDS
03	01	28	54.6%	15.284 N	60.935 W	33 N		0.5	7	LEEWARD ISLANDS. ML 2.6 (FDF).
03	01	41	47 6	32.856 S	71.572 W	13		0.6	11	NEAR COAST OF CENTRAL CHILE
03	01	58	02 1?	32.35 S	72.26 W	33 N		0.7	8	OFF COAST OF CENTRAL CHILE
03	02	03	31.4	32.853 S	71.516 W	10 G		0.9	10	NEAR COAST OF CENTRAL CHILE
03	02	15	42 5	38.303 N	21.578 E	33 N		0.9	9	GREECE. MD 3.0 (ATH).
03	03	18	39 6%	15.851 N	60.852 W	33 N		0.9	11	LEEWARD ISLANDS. ML 2.6 (FDF).
03	03	34	58 0*	51.075 N	15.721 E	5 G		1.1	7	POLAND. ML 3.1 (VKA), 3.1 (GRF), 2.4 (KRA).
03	03	38	06.5?	32.65 S	71.81 W	10 G		0.1	7	NEAR COAST OF CENTRAL CHILE
03	04	54	08.6	39.235 N	28.976 E	10 G		0.6	10	TURKEY
o 03	04	56	00 4*	1.177 N	85.263 W	24 D	4.7 4.7	1.5	25	OFF COAST OF ECUADOR
03	05	08	01 7%	46.374 N	3.503 E	10 G		0.3	8	FRANCE. ML 1.9 (LDG).
03	05	32	40 3*	5.871 N	127.115 E	153 *	4.5	0.7	18	PHILIPPINE ISLANDS REGION
03	06	18	51.9?	23.32 S	179.84 E	500 G	4.7	1.0	10	SOUTH OF FIJI ISLANDS
03	07	03	27 6	18.949 N	65.053 W	51 *	4.3	1.0	46	PUERTO RICO REGION. MD 4.6 (TRN). Felt at San Juan.
03	07	12	14.7?	42.44 N	8.62 W	10 G		0.3	4	SPAIN. mbLg 2.9 (MDD).
03	07	52	21 8?	32.27 S	71.98 W	10 G		0.4	7	NEAR COAST OF CENTRAL CHILE
03	08	11	52 8	16.449 N	98.203 W	30 D	4.8	1.3	49	NEAR COAST OF GUERRERO, MEXICO
03	08	30	56.2?	41.53 N	126.25 W	10 G		0.4	45	OFF COAST OF NORTHERN CALIFORNIA
03	08	31	51 6*	29.253 N	129.255 E	33 N	4.6	0.9	8	RYUKYU ISLANDS
o 03	08	33	17.1	29.330 N	129.081 E	17 D	5.5 5.7	1.0	149	RYUKYU ISLANDS
03	08	44	48.1	41.923 N	23.172 E	10 G		1.3	10	GREECE-BULGARIA BORDER REGION. MD 2.5 (THE).
03	09	22	03.6%	58.927 N	153.952 W	8			33	KODIAK ISLAND REGION. <AEIC>. ML 2.8 (AEIC).
03	09	59	49.8%	34.090 N	117.310 W	17			19	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.5 (PAS). Felt (V) at Highland and (III) at Alta Loma, Moreno Valley, Norton Air Force Base, Ontario, Redlands and San Bernardino.
03	10	38	59.1%	43.055 N	0.479 W	10 G		0.3	7	PYRENEES. ML 1.0 (STR).
03	11	43	54.8%	45.139 N	2.827 E	5 G		0.5	8	FRANCE. ML 2.1 (LDG).
03	12	53	21.7	32.925 S	70.270 W	108 ?		0.4	12	CHILE-ARGENTINA BORDER REGION
03	13	53	35.4%	33.876 S	70.765 W	33 N		1.2	5	CHILE-ARGENTINA BORDER REGION
03	15	51	34.5%	42.776 N	12.953 E	10 G		1.1	8	CENTRAL ITALY
03	17	51	26.3	38.959 N	28.822 E	10 G	3.6	1.0	27	TURKEY. MD 4.0 (ATH). Felt at Kutahya.
03	17	55	51.9?	33.77 S	70.11 W	33 N		1.0	5	CHILE-ARGENTINA BORDER REGION
03	18	11	50.9%	39.089 N	28.623 E	10 G		0.5	10	TURKEY. Felt at Kutahya.
03	18	29	36.6*	60.436 S	51.504 W	10 G	5.2	1.2	15	SCOTIA SEA
03	18	31	58.6	22.552 S	66.164 W	255	4.7	1.0	39	JUJUY PROVINCE, ARGENTINA
03	18	47	01.8?	10.62 S	121.34 E	33 N	4.3	1.5	5	SAVU SEA
03	18	50	25.7*	10.018 S	150.773 E	70 ?	4.3	1.1	15	EAST PAPUA NEW GUINEA REGION
03	18	51	25.8%	34.020 S	71.094 W	33 N		0.6	9	NEAR COAST OF CENTRAL CHILE
03	19	38	01.0%	42.792 N	12.882 E	10 G		0.8	7	CENTRAL ITALY
03	20	15	27.7	37.129 N	21.072 E	10 G	3.7	1.5	33	SOUTHERN GREECE. ML 3.9 (ATH). MD 3.9 (THE).
03	20	22	05.0*	27.967 S	66.883 W	218 ?		1.0	14	CATAMARCA PROVINCE, ARGENTINA
03	21	20	20.7*	5.498 S	153.797 E	61 *	4.9 3.8	0.9	27	NEW IRELAND REGION
03	21	24	52.7%	38.986 N	28.786 E	15		0.6	12	TURKEY
03	21	39	59.3%	60.417 N	143.133 W	11			10	SOUTHERN ALASKA. <AEIC>. ML 2.5 (AEIC).
03	21	52	51.3%	38.996 N	28.752 E	10 G		0.8	8	TURKEY
03	22	58	12.8%	39.275 N	27.878 E	10 G		0.9	6	TURKEY
03	23	02	48.1*	15.123 S	72.996 W	109 *	4.2	1.0	10	SOUTHERN PERU
03	23	04	01.3%	37.075 N	121.897 W	9			11	CENTRAL CALIFORNIA. <BRK>. ML 2.6 (BRK).
03	23	18	17.1*	2.219 S	121.920 E	33 N	4.7	0.8	5	SULAWESI
03	23	19	52.1?	1.90 S	99.48 E	33 N	4.6	0.7	6	SOUTHERN SUMATRA
04	00	36	05.8%	39.221 N	23.565 E	10 G		0.4	7	AEGEAN SEA. MD 2.3 (THE).
04	00	48	33.6?	34.28 S	71.03 W	33 N		0.1	5	NEAR COAST OF CENTRAL CHILE
04	01	35	36.3%	46.960 N	6.961 E	5 G		0.1	5	SWITZERLAND. ML 1.9 (LDG).
04	01	39	39.3*	37.752 N	16.400 E	23		1.2	18	IONIAN SEA. ML 2.8 (ROM).
04	01	40	13 6	46.639 N	10.503 E	10 G		1.5	9	NORTHERN ITALY. ML 1.5 (VIE).
04	02	08	25.5	24.907 N	122.194 E	10 G	4.3	1.3	14	TAIWAN REGION
04	03	02	45.2?	15.26 S	167.24 E	96 ?	4.2	1.2	39	VANUATU ISLANDS

04	03	03	48.0	41.658	N	24.375	E	10	G	0.6	8	GREECE-BULGARIA BORDER REGION. MD 2.4 (THE).	
04	04	23	06.5%	43.117	N	0.677	W	10	G	0.3	5	PYRENEES. ML 1.0 (STR).	
04	04	37	17.7%	62.167	N	148.749	W	34			32	CENTRAL ALASKA. <AEIC>. ML 2.6 (AEIC).	
04	04	53	13.8%	0.81	S	80.61	W	10	G	1.4	11	NEAR COAST OF ECUADOR. MD 4.5 (QUI).	
04	05	35	41.5%	37.822	N	14.676	E	10	G	1.0	9	SICILY	
04	07	29	22.5%	40.619	N	15.787	E	10	G	1.3	12	SOUTHERN ITALY	
04	07	37	44.6%	60.296	N	152.737	W	131			32	SOUTHERN ALASKA. <AEIC>.	
o	04	07	45	30.9	0.912	S	80.916	W	21	5.4 4.8	0.9	197	NEAR COAST OF ECUADOR. MD 5.1 (QUI). Felt at Manta and Santa Domingo de las Calaradas.
04	08	00	27.8%	40.84	N	30.27	E	10	G	0.7	6	TURKEY	
04	08	23	22.9%	62.476	N	151.112	W	86			41	CENTRAL ALASKA. <AEIC>.	
04	08	55	07.6%	38.59	N	75.07	E	33	N 5.0	0.9	16	SOUTHERN XINJIANG, CHINA	
04	09	42	13.3%	60.481	N	152.393	W	102			34	SOUTHERN ALASKA. <AEIC>.	
04	11	54	11.8%	34.970	N	117.040	W	4			13	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.1 (PAS).	
04	12	21	33.7%	18.589	N	98.835	E	10	G	0.6	5	SOUTHEAST ASIA	
04	12	38	24.5	23.888	N	95.859	E	43	4.7 4.3	1.0	62	BURMA	
04	14	15	23.1%	4.155	S	154.175	E	425	* 5.0	0.8	26	SOLOMON ISLANDS	
04	14	15	37.4	3.601	S	126.142	E	34	* 5.1	1.2	25	BURU	
04	15	11	24.6	34.534	N	34.094	E	27	4.2	1.1	21	CYPRUS. ML 4.0 (CSS), 3.8 (BHL). MD 3.8 (HLW).	
04	15	25	37.2%	36.597	N	121.245	W	6			14	CENTRAL CALIFORNIA. <BRK>. ML 2.6 (BRK).	
04	16	13	04.6	44.003	N	6.543	E	10	G	0.7	17	FRANCE. ML 1.9 (LDG).	
04	18	20	27.3%	62.863	N	149.704	W	76			34	CENTRAL ALASKA. <AEIC>.	
04	18	23	38.5	38.339	N	22.602	E	38	* 3.4	1.0	36	GREECE. MD 3.4 (THE).	
04	18	24	25.2	66.910	N	156.311	W	33	N	0.3	6	ALASKA. ML 3.6 (PMR).	
04	19	08	03.9	46.647	N	10.072	E	10	G	1.4	19	NORTHERN ITALY. ML 2.5 (LDG).	
04	19	08	07.1%	65.492	N	142.910	E	33	N 4.4	0.5	10	EASTERN SIBERIA	
04	20	10	34.4%	37.632	N	118.867	W	7			8	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 3.1 (GM).	
04	20	23	48.4%	8.682	S	67.270	E	10	G 4.9	0.8	14	MIO-INDIAN RISE	
04	21	00	51.9	42.925	N	18.571	E	16		1.1	86	YUGOSLAVIA ML 3.6 (ROM). MD 4.3 (TRI), 3.8 (THE), 3.6 (TTG) Felt in western Montenegro.	
04	21	20	33.0	46.331	N	151.125	E	70	G 4.9	0.8	102	KURIL ISLANDS	
04	22	00	11.8%	2.32	S	77.11	W	33	N 4.8	0.9	7	PERU-ECUADOR BORDER REGION	
04	22	03	20.4%	48.31	N	1.64	W	10	G	0.4	5	FRANCE. ML 2.6 (LDG).	
04	22	35	10.3%	39.277	N	23.491	E	10	G	0.4	7	AEGEAN SEA. MD 2.4 (THE).	
04	23	08	21.8%	15.74	N	60.03	W	10	G	0.2	8	LEEWARD ISLANDS. ML 2.7 (FDF).	
04	23	28	01.6	19.978	S	134.063	E	10	G 4.5	1.2	9	NORTHERN TERRITORY, AUSTRALIA	
05	01	23	01.7%	52.74	N	164.01	W	33	N 4.5	1.2	5	SOUTH OF ALASKA	
05	01	53	49.8%	10.222	N	125.192	E	33	N 5.0 4.3	1.4	21	LEYTE, PHILIPPINE ISLANDS	
05	02	00	59.6	47.465	N	152.195	E	140	G 4.6	0.9	58	KURIL ISLANDS	
05	02	12	23.6%	40.079	N	123.669	W	20			2	NORTHERN CALIFORNIA. <GM-P>. MD 3.0 (GM).	
o	05	03	21	17.2%	17.886	S	115.941	W	10	G 5.1	1.0	65	EASTER ISLAND COROILLERA
05	04	26	08.3%	59.997	N	153.635	W	152			34	SOUTHERN ALASKA. <AEIC>.	
05	04	40	04.0%	44.26	N	8.71	E	10	G	0.4	5	NORTHERN ITALY	
05	05	29	17.6	40.496	N	29.354	E	11		0.6	18	TURKEY	
05	05	51	55.1%	27.658	S	26.111	E	5	G	1.1	8	REPUBLIC OF SOUTH AFRICA mbLg 3.7 (BUL)	
05	05	59	48.9%	28.390	N	112.152	W	10	G 3.9	1.4	15	GULF OF CALIFORNIA	
o	05	06	05	47.2	21.363	S	174.396	W	31	D 5.7 5.8	1.1	200	TONGA ISLANDS. Ms 5.8 (BRK). Mo=2.0*10**18 Nm (PPT).
05	06	46	11.9%	0.65	S	81.21	W	33	N	0.7	10	OFF COAST OF ECUADOR	
05	07	10	45.8%	45.125	N	2.848	E	10	G	0.8	6	FRANCE	
05	07	43	52.9%	15.37	N	61.27	W	154	?	0.4	10	LEEWARD ISLANDS	
05	07	48	08.6%	39.571	N	27.839	E	10	G	0.6	9	TURKEY	
05	08	17	40.7%	42.574	N	12.783	E	10	G	1.2	5	CENTRAL ITALY	
05	08	54	49.3%	44.374	N	7.401	E	10	G	0.5	7	NORTHERN ITALY. ML 1.5 (GEN).	
05	09	00	37.9%	39.126	N	27.630	E	10	G	0.8	5	TURKEY	
05	09	33	37.7%	17.065	N	61.252	W	33	N	0.4	8	LEEWARD ISLANDS. ML 2.4 (FDF).	
05	10	42	32.2	1.546	N	127.453	E	142	5.4	1.0	102	HALMAHERA	
05	10	53	14.4%	34.250	N	118.470	W	10			13	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS). Felt (IV) at Tujunga. Also felt at Panorama City and in the Van Nuys area.	
o	05	11	08	08.9	51.675	N	176.351	E	33	N 5.1 5.0	1.0	190	RAT ISLANDS, ALEUTIAN ISLANDS. Ms 4.9 (BRK). Mo=1.0*10**17 Nm (PPT).
05	11	28	13.7%	61.740	N	147.030	W	33			56	SOUTHERN ALASKA. <AEIC>. ML 2.7 (AEIC), 3.0 (PMR).	
05	12	59	55.6%	32.63	S	71.71	W	21		0.5	10	NEAR COAST OF CENTRAL CHILE	
05	13	26	11.4%	46.940	N	120.351	W	4			61	WASHINGTON. <SEA>. MD 2.8 (SEA).	
05	14	03	13.2%	38.307	N	22.146	E	5	G	1.2	6	GREECE. MD 2.9 (THE).	
05	16	22	34.6%	11.016	N	62.131	W	33	N	0.6	7	WINDWARD ISLANDS. MD 3.5 (TRN).	
05	20	25	57.1	43.710	N	10.171	E	10	G	1.1	27	CENTRAL ITALY. ML 2.7 (LDG).	
05	20	36	39.9%	39.692	N	15.381	E	30	*	0.9	10	SOUTHERN ITALY	
05	21	00	22.3%	3.89	N	76.18	W	88	?	0.4	7	COLOMBIA. MD 3.3 (UVC).	
05	21	13	40.1%	46.369	N	0.053	W	21		0.7	20	FRANCE. ML 2.9 (LDG).	
05	21	32	36.8%	56.46	S	145.85	E	10	G 4.8	0.8	8	WEST OF MACQUARIE ISLAND	
05	22	06	13.3%	32.070	S	69.367	W	10	G	1.3	7	MENDOZA PROVINCE, ARGENTINA	
05	22	32	37.6	45.045	N	10.307	E	33	N	1.1	56	NORTHERN ITALY. ML 3.1 (LDG), 2.9 (VIE), 2.6 (STR).	
05	23	00	55.1	40.597	N	21.246	E	10	G	0.9	10	GREECE. MD 2.4 (THE).	
05	23	35	12.2%	40.019	N	23.837	E	3	G	0.1	5	GREECE	
06	00	03	34.8	10.250	N	125.065	E	23	D 4.7 4.0	0.9	19	LEYTE, PHILIPPINE ISLANDS	
06	01	03	55.0%	36.058	N	120.613	W	6			7	CENTRAL CALIFORNIA. <GM-P>. MD 3.0 (GM).	
f	06	02	17	31.6	3.827	N	95.374	E	18	G 6.0 5.3	0.9	445	OFF W COAST OF NORTHERN SUMATERA. Mo=4.0*10**17 Nm (PPT). Felt strongly at Banda Aceh. Also felt in the Pinang area, Malaysia. Depth from broadband displacement seismograms
06	02	55	47.9%	3.999	N	95.479	E	33	N 4.7	0.8	21	OFF W COAST OF NORTHERN SUMATERA	
06	03	22	08.2%	62.783	N	149.076	W	66			47	CENTRAL ALASKA. <AEIC>.	
06	03	33	42.4	39.838	N	19.421	E	10	G	1.0	24	GREECE-ALBANIA BORDER REGION. MD 3.3 (ATH).	
06	04	28	56.6	44.474	N	7.287	E	14		0.4	21	NORTHERN ITALY. ML 2.3 (GEN), 2.2 (LDG).	
06	04	57	26.8%	37.983	N	2.285	W	10	G	0.7	5	SPAIN. mbLg 2.8 (MDD).	
06	05	36	32.8%	59.259	N	153.276	W	108			41	SOUTHERN ALASKA. <AEIC>.	
06	05	57	22.8%	43.070	N	0.773	W	10	G	0.3	5	PYRENEES. ML 1.0 (STR).	
06	06	14	54.1%	33.703	S	71.242	W	33	N	0.5	8	NEAR COAST OF CENTRAL CHILE	
06	06	39	17.6	44.253	N	8.628	E	10	G	0.5	14	NORTHERN ITALY. ML 2.5 (GEN).	
06	06	39	32.8%	44.20	N	8.86	E	10	G	0.9	8	NORTHERN ITALY. ML 2.3 (GEN).	
06	08	11	41.5%	32.24	S	71.97	W	22		0.5	7	NEAR COAST OF CENTRAL CHILE	
06	09	29	05.3%	3.714	N	76.329	W	33	N	1.4	6	COLOMBIA	

06	10	17	03.2*	37.069 N	10.798 W	10 G	3.7	1.0	38	NORTH ATLANTIC OCEAN. mblg 3.9 (MDD).
06	10	40	56.4%	43.998 N	7.285 E	10 G		0.3	8	NEAR SOUTH COAST OF FRANCE
06	11	14	13.4%	40.686 N	22.800 E	10 G		0.3	8	GREECE. MD 2.2 (THE).
06	11	31	03.1%	43.074 N	13.495 E	10 G		0.9	7	CENTRAL ITALY
06	11	35	13.0%	42.746 N	19.149 E	10 G		0.4	8	YUGOSLAVIA. MD 1.7 (TTG).
06	11	54	52.1%	60.403 N	152.662 W	119			40	SOUTHERN ALASKA. <AEIC>.
06	12	10	07.7%	40.781 N	0.579 W	10 G		1.5	5	SPAIN. mblg 2.6 (MDD)
06	12	26	59.6%	1.108 S	78.319 W	10 G		0.3	7	ECUADOR. MD 3.9 (OUI)
06	13	41	01.4*	41.221 N	24.053 E	10 G		1.1	5	GREECE-BULGARIA BORDER REGION. MD 2.2 (THE).
06	14	11	42.2*	17.902 S	143.217 E	10 G	4.0	1.2	9	QUEENSLAND, AUSTRALIA. ML 4.7 (OLP), 4.4 (RMD), 4.1 (CMS).
06	14	30	04.1%	60.873 N	151.898 W	80			39	KENAI PENINSULA, ALASKA. <AEIC>.
06	14	34	34.6%	32.420 N	115.250 W	16			6	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.0 (PAS).
06	14	47	52.0?	3.82 N	76.21 W	33 N		0.9	5	COLOMBIA
f 06	14	49	30.5	35.725 N	141.044 E	29 G	5.9 5.7	0.9	404	NEAR EAST COAST OF HONSHU, JAPAN Mo=8.0*10**17 Nm (PPT). Depth from broadband displacement seismograms.
06	15	04	46.1	45.403 N	21.069 E	11		1.1	36	ROMANIA. ML 4.1 (ZAG), 3.7 (TTG) Felt (V) in the Timisoara area.
06	18	52	37.7%	42.465 N	19.329 E	10 G		0.8	8	YUGOSLAVIA. ML 1.7 (TTG).
06	20	26	25.7	54.729 N	161.659 E	33 N	5.5 4.1	0.8	161	NEAR EAST COAST OF KAMCHATKA
06	20	26	29.6	10.613 S	117.574 E	83 *	4.6	0.9	22	SOUTH OF SUMBAWA ISLAND
06	21	10	04.7	44.102 N	7.128 E	10		0.4	20	NORTHERN ITALY. ML 2.3 (GEN), 1.9 (LDG).
06	21	23	02.7	9.548 S	159.464 E	18 D	5.0 4.4	1.0	34	SOLOMON ISLANDS. Felt (IV) at Honiara.
06	23	15	54.7?	3.71 N	95.45 E	60 ?	4.3	1.1	14	OFF W COAST OF NORTHERN SUMATERA
06	23	21	33.7	8.773 N	126.412 E	65 *	5.1	1.2	64	MINDANAO, PHILIPPINE ISLANDS
06	23	27	40.8?	29.82 N	131.59 E	33 N	4.2	1.4	8	RYUKYU ISLANDS REGION
06	23	32	45.2%	58.125 N	142.502 W	10 G			14	GULF OF ALASKA. <AEIC>. ML 2.6 (AEIC).
07	01	30	43.0?	81.44 N	8.22 W	10 G	4.1	0.7	6	NORTH OF SVALBARD
07	01	41	34.3*	4.896 S	133.936 E	33 N	4.4	1.2	8	WEST IRIAN REGION
07	01	44	15.2%	40.136 N	27.468 E	10 G		0.4	7	TURKEY
07	01	49	46.9*	3.208 N	97.204 E	59 ?	4.8 4.0	1.2	42	NORTHERN SUMATERA
07	03	14	26.9	45.205 N	14.687 E	19		1.4	24	YUGOSLAVIA. ML 3.1 (VIE), 2.6 (ZAG), MD 2.9 (TRI).
07	04	19	34.2	43.085 N	18.980 E	10 G		0.4	8	YUGOSLAVIA ML 2.2 (TTG).
07	04	27	24.8%	40.334 N	13.780 E	10 G		1.5	8	TYRRHENIAN SEA
o 07	04	54	49.8	4.555 S	134.016 E	24 D	5.1 4.8	1.5	45	WEST IRIAN REGION
o 07	05	16	28.7?	33.70 N	141.40 E	56 ?	4.4	1.0	11	OFF EAST COAST OF HONSHU, JAPAN
o 07	05	40	22.7	17.374 S	174.959 W	254 D	5.2	1.1	83	TONGA ISLANDS
07	07	08	18.3%	45.594 N	26.679 E	140 ?		1.2	9	ROMANIA. MD 3.6 (BUC).
07	09	17	37.0	46.065 N	27.105 E	26		0.9	17	ROMANIA. MD 3.6 (BUC). Felt (IV) in the Vrancea area.
07	09	25	27.6	39.283 N	29.205 E	10 G		0.6	8	TURKEY
07	10	13	01.5	10.042 N	70.024 W	17 D	4.8 3.9	1.2	60	VENEZUELA
07	10	18	58.2%	44.336 N	8.238 E	10 G		0.4	8	NORTHERN ITALY. ML 2.0 (GEN)
07	10	41	22.6?	22.22 S	178.01 W	560 ?	4.3	0.6	8	SOUTH OF FIJI ISLANDS
07	11	36	30.8*	25.099 N	88.791 E	33 N	5.0	1.6	10	INDIA-BANGLADESH BORDER REGION
07	12	03	57.4*	13.181 N	144.730 E	64	4.6	0.9	27	MARIANA ISLANDS. Felt lightly on Guam.
07	12	48	46.3*	31.681 S	72.031 W	33 N		0.7	11	OFF COAST OF CENTRAL CHILE. Felt (IV) at Iliapel, Salamanca and Chanaral; (III) in the Las Vilas area.
07	12	49	16.6	43.502 N	108.861 W	5 G		0.9	27	WYOMING. ML 3.4 (GS), 3.5 (BUT). Felt in the Thermopolis area.
07	12	53	24.8?	31.18 S	179.63 W	329 ?		1.1	19	KERMADEC ISLANDS REGION
07	13	35	53.2	9.527 S	125.264 E	100 *	5.0	1.0	14	TIMOR
07	14	08	19.2?	58.11 S	25.71 W	33 N	5.0	0.9	9	SOUTH SANDWICH ISLANDS REGION
07	14	44	10.0%	44.036 N	7.571 E	10 G		0.4	9	NORTHERN ITALY. ML 1.9 (GEN).
07	15	32	32.2?	33.14 S	71.16 W	33 N		0.3	5	NEAR COAST OF CENTRAL CHILE
07	17	58	40.7	46.270 N	7.283 E	10 G		0.8	17	SWITZERLAND. ML 2.6 (LDG).
07	19	24	01.9	45.308 N	21.051 E	25		1.0	46	ROMANIA. ML 3.8 (TTG), 3.7 (ZAG), MD 4.4 (TRI), 4.2 (THE). Felt at Belgrade, Yugoslavia.
07	19	50	05.0%	64.686 N	148.710 W	17			21	CENTRAL ALASKA. <AEIC>. ML 2.8 (AEIC).
07	20	27	59.1%	37.390 N	118.467 W	14			13	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.0 (BRK).
07	20	33	03.0*	3.526 N	95.221 E	33 N	4.3	1.2	12	OFF W COAST OF NORTHERN SUMATERA
07	21	33	34.9*	43.325 N	5.700 E	5 G		0.9	21	NEAR SOUTH COAST OF FRANCE. ML 2.2 (STR).
07	23	00	26.3*	10.144 S	113.468 E	33 N	5.0	0.6	13	SOUTH OF JAVA
07	23	36	22.7	41.001 N	23.560 E	10 G		0.1	6	GREECE-BULGARIA BORDER REGION. MD 2.3 (THE).
07	23	51	00.7%	59.575 N	153.421 W	109			35	SOUTHERN ALASKA. <AEIC>.
f 08	02	09	44.7	0.972 N	122.631 E	12	5.9 6.4	1.5	194	MINAHASSA PENINSULA. Ms 6.3 (BRK). Mo=4.0*10**18 Nm (PPT). Felt along the Minahassa Peninsula. Complex event observed on broadband displacement seismograms.
08	03	31	57.7%	37.219 N	3.688 W	10 G		1.1	10	SPAIN. mblg 2.9 (MDD).
08	04	00	01.4	1.294 N	122.663 E	45 D	5.3 5.4	1.4	85	MINAHASSA PENINSULA. Felt at Gorontalo.
08	05	25	40.0*	30.582 S	71.992 W	33 N		0.4	10	NEAR COAST OF CENTRAL CHILE
08	06	44	15.8%	39.496 N	23.962 E	10 G		0.7	5	AEGEAN SEA. MD 2.4 (THE).
08	06	57	18.9%	43.528 N	12.709 E	10 G		0.7	5	CENTRAL ITALY
08	07	03	25.3	41.613 N	20.842 E	10 G	3.8	1.2	73	ALBANIA. ML 4.3 (SKO), 4.0 (ROM), 3.8 (TTG), MD 4.0 (ATH). Felt (VI) in the Kiseva area, Yugoslavia.
08	09	50	59.3%	41.129 N	28.694 E	10 G		0.6	6	TURKEY
08	11	03	10.7?	82.29 N	9.03 W	10 G	3.5	1.2	7	NORTH OF SVALBARD
08	11	12	38.4	26.879 N	65.848 E	53 O	5.3	0.9	179	PAKISTAN
08	12	32	46.0%	44.399 N	7.397 E	10 G		0.3	8	NORTHERN ITALY. ML 1.8 (GEN).
08	12	34	25.3?	22.82 N	94.22 E	33 N		1.3	7	BURMA
08	12	41	01.6%	44.389 N	7.358 E	10 G		0.4	9	NORTHERN ITALY. ML 2.0 (GEN).
08	13	00	55.1*	19.630 N	70.603 W	30 *	4.2 3.8	1.5	17	DOMINICAN REPUBLIC REGION Felt strongly in the Puerto Plata area.
08	13	22	30.8	11.949 N	120.568 E	22 D	5.0 4.5	1.3	57	PALAWAN, PHILIPPINE ISLANDS
08	13	57	36.3	1.187 N	122.491 E	19 *	4.9	1.1	29	MINAHASSA PENINSULA
08	13	58	10.3*	21.614 S	174.122 W	34 D	5.2	1.3	29	TONGA ISLANDS. Mo=6.0*10**16 Nm (PPT).
08	14	16	17.8?	24.50 S	179.90 E	528 ?	4.5	0.9	14	SOUTH OF FIJI ISLANDS
08	15	00	24.2%	39.444 N	28.172 E	10 G		0.3	7	TURKEY
08	15	26	12.0*	4.540 S	151.900 E	175	5.1	1.1	31	NEW BRITAIN REGION
08	16	01	05.8	44.362 N	8.368 E	5 G		0.6	12	NORTHERN ITALY
08	16	01	57.6*	13.579 S	77.329 W	10 G	4.8 4.5	1.0	20	OFF COAST OF PERU
08	16	13	43.2%	44.840 N	7.199 E	10 G		1.1	6	NORTHERN ITALY. ML 1.8 (GEN).
o 08	16	30	06.3	20.226 S	178.103 W	579 D	5.3	1.1	137	FIJI ISLANDS REGION
08	16	46	09.5%	43.319 N	13.185 E	10 G		0.9	6	CENTRAL ITALY

08	16	49	21.9*	50.609 N	154.686 E	197 ?	4.3	1.0	18	KURIL ISLANDS
08	17	01	50.9*	1.497 N	122.715 E	33 N	4.7	1.0	16	MINAHASSA PENINSULA
08	17	12	11.9	15.253 N	94.153 W	63	4.6	1.0	25	NEAR COAST OF OAXACA, MEXICO
08	18	22	29.5*	45.516 S	72.691 W	33 N	5.0	0.8	13	NEAR COAST OF SOUTHERN CHILE. Felt in the Hudson Volcano area.
08	18	22	32.2*	61.684 N	150.700 W	58			37	SOUTHERN ALASKA. <AEIC>. ML 2.5 (AEIC).
08	18	31	50.2*	37.542 N	118.875 W	9			23	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.8 (BRK).
08	19	01	58.5*	45.579 N	26.502 E	137 ?		1.1	11	ROMANIA. MD 4.0 (BUC).
08	22	08	30.5	1.331 N	122.643 E	33 N	5.1 4.2	1.0	30	MINAHASSA PENINSULA
08	22	19	18.4*	43.096 N	0.399 W	10 G		0.1	7	PYRENEES. ML 1.0 (STR).
08	22	46	10.4	35.629 N	11.657 E	22 D	4.8 4.2	1.3	180	TUNISIA. MD 4.8 (ATH).
08	23	24	15.1*	23.859 N	121.867 E	10 G		0.9	6	TAIWAN
09	00	51	03.6*	33.64 S	71.67 W	10 G		0.2	6	NEAR COAST OF CENTRAL CHILE
09	01	13	46.8	44.600 N	142.525 E	254	4.5	0.9	106	HOKKAIDO, JAPAN REGION
09	01	31	46.9	27.005 S	64.519 W	52 *	4.3	1.4	19	SANTIAGO DEL ESTERO PROV, ARG. Felt (III) at Santiago del Estero
09	02	40	48.0*	60.523 N	152.081 W	77			61	SOUTHERN ALASKA <AEIC>
09	03	48	13.3*	59.798 N	148.024 W	26			56	KENAI PENINSULA, ALASKA. <AEIC>. ML 3.0 (AEIC).
09	06	28	03.2	1.409 N	122.706 E	37 D	5.5 4.8	1.0	92	MINAHASSA PENINSULA
09	06	36	42.4	65.278 N	134.653 W	10 G	4.3	0.8	28	NORTHERN YUKON TERRITORY, CANADA
09	06	52	08.5*	34.032 S	70.888 W	33 N		0.8	6	CHILE-ARGENTINA BORDER REGION
09	06	59	35.4*	41.261 N	22.439 E	10 G		0.2	5	YUGOSLAVIA. ML 1.9 (SKO). MD 2.5 (THE)
09	07	10	06.4	46.321 N	13.576 E	10 G		1.2	13	AUSTRIA. ML 2.8 (VIE). MD 2.6 (TRI). Felt at Kranjska Goro and Ratece, Yugoslavia.
09	07	14	11.8	39.063 N	23.314 E	10 G		0.9	23	AECEAN SEA. ML 3.5 (ATH). MD 3.4 (THE).
09	07	39	01.3*	40.374 N	21.796 E	10 G		0.3	5	GREECE. MD 2.1 (THE).
09	08	02	40.4*	45.099 N	6.728 E	10 G		0.7	6	FRANCE. ML 2.4 (GEN).
09	08	18	14.2*	40.582 N	27.493 E	10 G		0.8	5	TURKEY
09	08	18	49.6*	47.497 N	0.480 E	13		1.2	14	FRANCE. ML 3.1 (LDG).
09	08	37	11.8*	40.648 N	29.179 E	10 G		0.6	6	TURKEY
09	08	37	17.2*	38.129 N	14.584 E	10 G		0.6	7	SICILY
09	08	49	28.9*	38.788 N	111.587 W	1			8	UTAH. <SLC-P>. ML 2.8 (SLC).
09	09	33	49.6	9.737 N	84.054 W	5 G	4.7 4.7	1.4	76	COSTA RICA. At least 30 houses damaged in the Cortago area. Some landslides occurred. Felt in much of Costa Rica.
09	09	38	41.6*	43.094 N	0.615 W	10 G		0.5	6	PYRENEES. ML 1.0 (STR).
09	09	52	51.1*	40.531 N	15.800 E	10 G		0.4	6	SOUTHERN ITALY
09	10	36	54.6*	43.097 N	1.102 W	10 G		0.4	7	PYRENEES. ML 1.0 (STR).
09	12	07	52.6*	10.737 S	163.551 E	33 N	4.8	1.0	12	SOLOMON ISLANDS
09	12	14	53.4*	9.41 S	158.10 E	33 N	4.7	0.5	7	SOLOMON ISLANDS
09	12	16	58.4*	21.50 S	179.34 W	390 G	4.5	1.2	10	FIJI ISLANDS REGION
09	12	47	38.1*	59.594 N	152.180 W	66			51	SOUTHERN ALASKA. <AEIC>.
09	13	08	43.7*	44.232 N	8.543 E	10 G		0.8	6	NORTHERN ITALY. ML 2.1 (GEN).
09	14	30	17.9*	40.77 N	30.11 E	10 G		0.1	5	TURKEY
09	15	12	14.9*	62.889 N	151.120 W	115			36	CENTRAL ALASKA. <AEIC>.
09	15	31	52.7*	10.818 S	163.468 E	33 N	4.9	1.1	12	SOLOMON ISLANDS
09	16	16	28.7*	37.155 N	121.558 W	1			14	CENTRAL CALIFORNIA. <BRK>. ML 2.7 (BRK).
09	16	23	29.6*	4.512 S	143.824 E	113 ?	4.2	1.2	10	PAPUA NEW GUINEA
09	16	51	00.9*	4.52 N	77.16 W	10 G		0.8	6	NEAR WEST COAST OF COLOMBIA
09	17	07	04.5*	36.987 N	122.234 W	10			9	CENTRAL CALIFORNIA. <GM-P>. MD 3.2 (GM). Felt in the Santo Cruz area.
09	19	11	37.2	17.464 S	167.692 E	10 G	4.5 4.2	1.2	23	VANUATU ISLANDS
09	19	11	45.8*	41.34 N	22.51 E	10 G		0.8	4	YUGOSLAVIA. MD 1.5 (THE).
09	19	50	49.1*	43.073 N	0.562 W	10 G		0.2	7	PYRENEES. ML 1.0 (STR).
09	20	10	48.0*	10.593 S	163.611 E	33 N	4.7	1.3	15	SOLOMON ISLANDS
09	20	16	01.0	23.320 S	179.185 W	465 D	5.4	1.0	197	SOUTH OF FIJI ISLANDS
09	20	27	41.9*	44.46 N	7.29 E	10 G		0.0	4	NORTHERN ITALY. ML 1.3 (GEN).
09	20	35	54.7*	2.03 S	138.91 E	33 N	4.5	0.6	6	WEST IRIAN
09	20	43	16.7*	10.64 S	163.57 E	10 G	4.9 4.6	1.2	9	SOLOMON ISLANDS
09	20	57	44.5*	3.258 N	126.492 E	33 N	4.4 4.1	0.8	10	TALAUD ISLANDS
09	21	04	28.6*	10.692 S	163.556 E	33 N	4.7 4.6	1.0	12	SOLOMON ISLANDS
09	21	09	11.6	45.896 N	3.168 E	10 G		0.5	14	FRANCE. ML 1.9 (LDG).
09	22	17	09.7*	10.914 S	163.359 E	23 D	4.9	1.3	13	SOLOMON ISLANDS
09	22	48	24.2*	3.853 N	76.010 W	33 N		1.2	6	COLOMBIA
09	23	21	22.9*	71.74 N	29.57 W	10 G	4.3	1.2	7	EASTERN GREENLAND
09	23	31	55.2	3.079 S	129.783 E	21 D	5.1	1.2	42	CERAM
10	00	49	55.6*	2.53 N	75.79 W	10 G		0.2	5	COLOMBIA. MD 3.4 (UVC).
10	01	43	46.9	41.011 N	22.415 E	10 G		0.4	8	YUGOSLAVIA. ML 1.7 (SKO). MD 2.2 (THE).
10	03	26	10.4*	62.298 N	149.872 W	55			56	CENTRAL ALASKA. <AEIC>.
10	04	27	36.0*	12.085 N	120.305 E	10 G	4.4	1.5	11	MINDORO, PHILIPPINE ISLANDS
10	04	36	30.7*	39.70 N	20.61 E	10 G		0.9	6	GREECE-ALBANIA BORDER REGION. MD 2.5 (THE).
10	05	03	15.7	37.295 N	29.752 E	10 G		0.5	9	TURKEY
10	05	23	54.3	51.277 N	15.696 E	5 G		1.0	18	POLAND. ML 3.9 (VKA).
10	05	55	09.6*	31.97 S	69.65 W	33 N		1.0	5	SAN JUAN PROVINCE, ARGENTINA
10	06	15	33.1*	50.98 N	19.76 E	10 G		0.6	5	POLAND. ML 2.9 (KRA).
10	06	58	32.7	40.543 N	21.906 E	10 G		1.1	6	GREECE. MD 1.7 (THE).
10	07	15	07.2*	7.09 S	129.19 E	179 ?		1.5	6	BANDA SEA
10	08	57	51.8*	40.052 N	42.153 E	10 G	4.4	0.9	10	TURKEY. Felt at Erzurum.
10	09	56	49.2*	43.069 N	0.500 W	10 G		0.2	7	PYRENEES. ML 1.0 (STR).
10	11	42	44.0*	39.166 N	27.689 E	10 G		0.5	5	TURKEY
10	12	18	39.9*	36.627 N	121.285 W	7			16	CENTRAL CALIFORNIA. <BRK>. ML 2.6 (BRK).
10	12	40	16.0*	15.58 S	73.12 W	33 N		0.4	5	SOUTHERN PERU
10	13	00	12.8*	24.255 N	90.592 E	33 N		1.4	9	BANGLADESH
10	13	33	11.2*	63.037 S	164.391 W	10 G	5.0 5.0	1.1	22	SOUTH PACIFIC CORDILLERA
10	13	38	19.6*	37.25 N	3.38 W	10 G		0.2	4	SPAIN. mbLg 2.6 (MDD).
10	14	55	30.3	50.654 N	5.572 E	10 G		0.9	33	BELGIUM. ML 3.2 (UCC), 3.2 (LDG), 3.2 (BNS).
10	16	09	36.9*	17.78 S	178.55 W	550 G	5.1	1.2	22	FIJI ISLANDS REGION
10	16	31	51.8	45.057 N	14.989 E	5 G		1.2	8	YUGOSLAVIA. MD 2.6 (LJU), 2.5 (TRI).
10	17	11	55.9*	44.40 N	11.86 E	10 G		0.4	5	NORTHERN ITALY
10	17	36	39.3*	16.617 N	61.490 W	33 N		1.2	6	LEEWARD ISLANDS. ML 2.4 (FDF).
10	18	08	25.6*	51.332 N	176.996 E	33 N	4.2	1.4	26	RAT ISLANDS, ALEUTIAN ISLANDS. ML 4.7 (PMR).
10	18	08	46.6*	38.040 N	28.266 E	10 G		0.6	9	TURKEY
10	18	13	00.3*	34.38 S	68.65 W	33 N		0.7	5	MENDOZA PROVINCE, ARGENTINA

10	18 22 12.97	18.03 S	115.92 W	10 G	4.7	0.9	16	EASTER ISLAND CORDILLERA
10	18 23 21.67	50.16 N	176.65 E	33 N	4.2	0.7	4	RAT ISLANDS, ALEUTIAN ISLANDS. ML 3.9 (PMR).
10	19 24 04.97	9.76 S	163.45 E	33 N	4.7	0.2	5	SOLOMON ISLANDS
10	19 30 25.7	40.684 N	23.409 E	10 G		1.4	8	GREECE. MD 2.1 (THE).
10	20 21 51.7	33.910 N	92.158 E	10 G	4.7 4.5	1.0	29	QINGHAI PROVINCE, CHINA
10	21 41 09.8	35.485 N	140.121 E	33 N	4.1	0.6	10	NEAR EAST COAST OF HONSHU, JAPAN
10	21 46 11.07	43.075 N	0.634 W	10 G		0.2	7	PYRENEES. ML 1.0 (STR)
10	22 27 08.1	21.946 N	67.858 W	10 G	4.6 3.7	1.2	46	NORTH ATLANTIC OCEAN
10	23 19 27.8*	2.449 S	140.165 E	33 N	4.6	0.6	11	NEAR N. COAST OF WEST IRIAN
10	23 29 51.1*	31.411 S	179.934 W	431 ?	4.8	1.3	29	KERMADEC ISLANDS REGION
11	01 10 04.97	54.40 S	130.73 W	10 G	4.8 4.9	1.7	13	SOUTH PACIFIC CORDILLERA
11	01 57 24.27	45.47 N	26.42 E	120 G		1.2	6	ROMANIA. MD 4.1 (BUC)
11	02 36 13.4	45.804 N	11.187 E	10 G		0.6	10	NORTHERN ITALY. ML 2.6 (VIE)
11	03 07 18.7	39.826 N	143.331 E	17 D	5.0 4.6	1.1	74	OFF EAST COAST OF HONSHU, JAPAN
11	03 56 08.47	45.27 N	149.85 E	96 ?	4.3	1.6	20	KURIL ISLANDS
11	04 30 12.9*	8.146 N	126.817 E	33 N	4.8	0.7	7	MINDANAO, PHILIPPINE ISLANDS
11	04 34 53.6*	38.941 N	19.758 E	10 G		1.0	7	IONIAN SEA. MD 3.0 (ATH).
11	04 45 00.17	9.54 S	117.71 E	33 N	4.1	1.5	6	SUMBAWA ISLAND REGION
11	04 45 49.98	61.925 N	143.928 W	5			42	SOUTHERN ALASKA. <AEIC>. ML 3.3 (AEIC), 2.9 (PMR).
11	04 53 28.67	42.53 N	12.81 E	10 G		0.4	4	CENTRAL ITALY
11	05 15 16.57	3.71 N	75.69 W	29 ?		0.6	5	COLOMBIA
11	06 09 53.08	37.620 N	118.863 W	5			24	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.5 (BRK).
11	06 55 23.78	61.445 N	150.816 W	64			43	SOUTHERN ALASKA. <AEIC>.
11	07 30 09.3*	40.590 N	22.034 E	5 G		1.5	5	GREECE
11	07 53 24.4*	43.352 N	19.807 E	10 G		0.7	9	YUGOSLAVIA. ML 2.0 (TTG).
11	07 56 18.07	43.085 N	0.639 W	10 G		0.1	9	PYRENEES. ML 1.3 (STR).
11	08 33 22.9	36.166 N	35.778 E	10 G	4.1	1.2	13	TURKEY
11	08 50 02.1*	39.516 N	72.623 E	33 N	4.2	1.2	8	KIRGHIZ SSR
11	09 03 11.67	32.74 S	178.08 W	33 N	4.8	1.6	9	SOUTH OF KERMADEC ISLANDS
11	09 30 12.1*	45.302 N	125.717 W	10 G		0.5	30	OFF COAST OF OREGON
11	10 59 56.57	45.85 N	11.76 E	10 G		0.7	4	NORTHERN ITALY. ML 1.8 (VIE).
11	12 18 24.0	52.527 N	159.482 E	33 N	5.0 4.7	0.9	113	OFF EAST COAST OF KAMCHATKA
11	12 54 07.67	42.065 N	19.614 E	10 G		0.3	8	YUGOSLAVIA. ML 1.8 (TTG).
11	13 28 03.77	45.361 N	7.160 E	10 G		1.4	6	NORTHERN ITALY. ML 2.0 (LDG).
11	13 46 13.87	39.359 N	29.013 E	10 G		1.0	6	TURKEY
11	14 26 07.78	59.650 N	152.080 W	70			33	SOUTHERN ALASKA. <AEIC>.
11	14 43 54.2	3.141 S	130.320 E	33 N	5.7 5.3	1.2	150	CERAM
11	15 14 28.27	38.30 N	21.95 E	5 G		1.4	4	GREECE. ML 2.9 (ATH).
11	17 04 08.1*	42.961 N	16.230 E	10 G		1.2	12	ADRIATIC SEA. MD 3.1 (TRI).
11	17 25 42.17	31.87 S	70.17 W	110 ?		0.2	7	CHILE-ARGENTINA BORDER REGION
11	18 52 43.5	37.014 N	29.328 E	10 G		0.9	8	TURKEY
11	19 46 56.6*	24.068 S	66.904 W	200 G		1.0	6	SALTA PROVINCE, ARGENTINA
11	20 39 45.77	15.95 S	176.08 W	300 G	4.9	1.1	26	FIJI ISLANDS REGION
11	21 11 17.7*	21.283 S	175.535 E	15 D	4.7	0.9	15	SOUTH OF FIJI ISLANDS
11	21 25 49.7	45.432 N	21.135 E	10 G		1.3	16	ROMANIA. ML 3.3 (VKA).
11	21 40 45.0	42.221 N	145.125 E	33 N	4.6 4.5	1.1	42	HOKKAIDO, JAPAN REGION
11	21 40 46.18	61.639 N	150.846 W	56			39	SOUTHERN ALASKA. <AEIC>. ML 2.6 (AEIC).
11	22 04 17.47	33.65 S	117.96 E	10 G		0.1	4	WESTERN AUSTRALIA
11	23 38 57.57	11.106 N	61.923 W	33 N		0.3	5	WINDWARD ISLANDS
12	00 41 23.97	31.40 S	71.90 W	33 N		1.2	10	NEAR COAST OF CENTRAL CHILE
12	01 29 22.8*	14.617 N	119.396 E	33 N	4.5	1.5	6	LUZON, PHILIPPINE ISLANDS
12	02 04 01.07	37.181 N	3.521 W	5 G		1.1	5	SPAIN. mbLg 2.8 (MDD).
12	03 48 37.57	9.69 S	125.38 E	33 N	4.2	1.1	6	TIMOR
12	04 28 52.87	10.94 N	62.26 W	70 G		0.5	6	NEAR COAST OF VENEZUELA. MD 3.3 (TRN).
12	04 59 39.2	45.467 N	21.153 E	10 G	4.2	1.2	92	ROMANIA. ML 4.5 (VKA). MD 4.2 (TTG). Felt (IV) at Timisoara. Felt along the Yugoslavia-Romania border. Also felt at Belgrade, Yugoslavia.
12	07 55 01.37	15.950 N	61.103 W	33 N		1.3	5	LEEWARD ISLANDS
12	09 19 53.4*	45.735 N	26.660 E	166 ?		1.2	16	ROMANIA
12	09 21 38.67	42.358 N	19.937 E	10 G		0.3	7	YUGOSLAVIA. ML 1.7 (TTG).
12	10 23 07.47	6.07 S	147.11 E	59 *	4.0	1.0	6	EAST PAPUA NEW GUINEA REGION
12	11 52 01.97	6.59 S	145.99 E	122 ?	4.0	0.6	5	PAPUA NEW GUINEA
12	12 02 24.3*	51.925 N	171.719 W	33 N	4.3	1.2	19	FOX ISLANDS, ALEUTIAN ISLANDS. ML 4.5 (PMR).
12	12 02 43.9*	27.753 S	71.404 W	37 ?		1.3	15	NEAR COAST OF NORTHERN CHILE
12	12 05 08.2	41.241 N	22.467 E	10 G		0.4	8	YUGOSLAVIA. MD 2.4 (THE).
12	13 02 30.2	14.170 S	14.255 W	10 G	5.5 5.5	0.9	236	SOUTH ATLANTIC RIDGE. Ma=6.0*10**17 Nm (PPT).
12	13 41 45.5	43.272 N	21.004 E	10 G		0.8	29	YUGOSLAVIA. ML 3.0 (TTG).
12	13 54 48.77	39.112 N	27.577 E	10 G		0.7	5	TURKEY
12	14 23 00.1*	32.912 S	71.674 W	33 N		1.2	11	NEAR COAST OF CENTRAL CHILE
12	14 47 03.8	41.327 N	19.555 E	10 G		1.2	13	ALBANIA. MD 3.1 (ATH).
12	15 18 19.47	44.51 N	7.33 E	5 G		0.2	4	NORTHERN ITALY. ML 1.4 (GEN).
12	16 41 06.17	18.39 N	71.61 E	33 N	4.1	1.3	9	ARABIAN SEA
12	17 51 45.07	46.596 N	0.271 E	10 G		1.0	9	FRANCE. ML 2.2 (LDG).
12	19 26 10.77	50.39 N	18.82 E	10 G		1.4	5	POLAND. ML 2.0 (KRA).
12	19 41 28.37	12.05 N	120.45 E	33 N	4.7	0.9	4	MINDORO, PHILIPPINE ISLANDS
12	20 42 30.67	41.06 N	22.30 E	5 G		0.2	4	YUGOSLAVIA. MD 1.7 (THE). ML 1.3 (SKO).
12	20 55 03.1	41.039 N	22.362 E	5 G		0.4	6	YUGOSLAVIA. ML 2.4 (SKO). MD 2.2 (THE).
12	21 11 50.88	38.227 N	118.758 W	8	4.4		38	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 4.8 (BRK), 4.6 (PAS). Felt (III) at Hawthorne, Mina and Yerington, Nevada. Felt (III) at Dardanelle and Kirkwood, California. Also felt at Bridgeport and Lee Vining, California.
12	21 22 02.38	38.212 N	118.743 W	3			5	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 3.0 (GM).
12	21 57 51.1	41.868 N	21.974 E	5 G		0.6	8	YUGOSLAVIA. ML 1.7 (SKO).
12	22 12 41.6*	6.992 S	147.031 E	55 *	4.5	0.9	9	EAST PAPUA NEW GUINEA REGION
12	22 39 34.17	40.417 N	23.913 E	10 G		0.9	5	GREECE
12	22 40 14.77	40.525 N	24.323 E	10 G		0.4	6	AEGEAN SEA
12	22 55 23.7*	27.706 N	54.469 E	33 N	4.4 4.1	1.6	38	SOUTHERN IRAN
12	22 56 09.4	44.806 N	6.784 E	9		0.7	59	FRANCE. ML 3.1 (GEN), 3.0 (LDG).
12	23 23 38.6*	38.804 N	21.224 E	10 G		1.3	6	GREECE. MD 3.0 (ATH).
12	23 41 39.7	41.028 N	22.391 E	5 G		0.5	9	YUGOSLAVIA. MD 2.0 (THE). ML 1.9 (SKO).
12	23 51 21.4	41.644 N	19.850 E	10 G		0.6	17	ALBANIA. ML 2.8 (TTG).
13	01 09 27.5	41.032 N	22.355 E	5 G		0.5	11	YUGOSLAVIA. ML 2.1 (SKO). MD 2.0 (THE).

13	01 38 24.4*	9.049 S	123.570 E	68 ?	4.8	1.2	12	TIMOR
a 13	02 11 16.3	52.791 N	34.944 W	10 G	5.2 5.2	0.9	224	NORTH ATLANTIC OCEAN. Ms 5.4 (BRK).
13	02 39 39.8	43.171 N	0.284 W	10 G		1.1	18	PYRENEES. ML 3.2 (LDG). mbLg 3.0 (MDD). Felt (IV) in the Ossau Valley, France.
13	02 55 52.0?	10.80 N	62.30 W	33 N		0.9	6	NEAR COAST OF VENEZUELA MD 3.2 (TRN).
13	05 09 44.6%	32.828 S	71.362 W	33 N		1.2	9	NEAR COAST OF CENTRAL CHILE
13	05 10 28.3	32.407 S	71.699 W	33 N	4.3	1.2	22	NEAR COAST OF CENTRAL CHILE
13	05 56 41.7?	11.35 N	59.40 W	26		0.5	8	NORTH ATLANTIC OCEAN MD 3.7 (TRN)
13	06 21 07.2%	60.385 N	5.315 E	5 G		0.2	5	SOUTHERN NORWAY. MD 1.3 (BER).
13	06 56 31.6	42.855 N	111.270 W	5 G		0.6	23	EASTERN IDAHO. ML 3.0 (GS), 3.0 (BUT).
13	08 04 44.6?	17.94 S	166.03 E	33 N		1.0	5	VANUATU ISLANDS
13	08 16 51.5*	51.570 N	7.032 E	5 G		1.5	5	GERMANY. ML 2.3 (BNS). Felt (IV) at Recklinghausen.
13	08 55 03.4%	58.449 N	155.532 W	109			15	ALASKA PENINSULA. <AEIC>.
13	09 08 11.8	54.135 N	159.717 E	33 N	4.6	1.1	47	NEAR EAST COAST OF KAMCHATKA
13	10 10 26.1	36.544 N	28.039 E	94 *	4.1	0.9	18	DODECANESE ISLANDS. MD 4.1 (HLW).
13	10 25 56.2%	38.240 N	118.785 W	20			14	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.6 (BRK)
13	11 21 17.8?	20.94 S	174.14 W	33 N	4.9 4.7	1.6	25	TONGA ISLANDS
13	11 22 22.9?	32.62 S	70.27 W	90 G		0.6	7	CHILE-ARGENTINA BORDER REGION
13	11 27 51.3%	43.054 N	0.478 W	10 G		0.3	7	PYRENEES. ML 1.0 (STR).
13	12 16 10.3*	41.228 N	22.487 E	5 G		0.5	5	YUGOSLAVIA. MD 2.3 (THE).
13	12 41 23.1%	40.259 N	23.772 E	10 G		1.2	5	GREECE
13	15 25 01.0*	15.316 N	61.281 W	146 *		0.6	17	LEEWARD ISLANDS. MD 3.9 (TRN).
13	15 33 16.5?	34.22 S	179.81 W	90 ?	4.8	1.7	7	SOUTH OF KERMADEC ISLANDS
13	15 58 48.6*	6.794 N	76.371 W	33 N	4.5	1.6	16	NORTHERN COLOMBIA
13	16 10 41.4%	32.996 S	71.255 W	64 ?		0.4	7	NEAR COAST OF CENTRAL CHILE
13	16 35 52.7*	20.079 N	45.800 W	10 G	4.8 4.2	0.9	20	NORTH ATLANTIC RIDGE
13	16 55 31.3	19.957 N	45.851 W	10 G	4.9	0.8	46	NORTH ATLANTIC RIDGE
13	17 45 45.6	14.488 N	93.959 W	33 N	4.7 4.1	1.1	45	NEAR COAST OF CHIAPAS, MEXICO
13	17 46 47.1*	46.063 N	14.547 E	10 G		0.1	5	YUGOSLAVIA. MD 2.4 (LJU), 2.2 (TRI).
13	17 49 53.3?	39.63 N	26.49 E	10 G		0.0	4	TURKEY
13	18 09 42.4	49.201 N	155.552 E	37 D	4.6	0.9	47	KURIL ISLANDS
13	19 16 39.6	45.204 N	7.381 E	10 G		0.2	8	NORTHERN ITALY. ML 2.2 (GEN).
13	19 22 31.2%	58.776 N	136.671 W	10 G	4.0		64	SOUTHEASTERN ALASKA. <PGC>. ML 4.5 (AEIC). Felt (III) at Elfin Cove, Gustavus, Hoonah, Juneau and Pelican. Also felt at Haines and at U.S. Customs on the Haines Highway.
13	19 52 17.6%	36.652 N	121.320 W	4			14	CENTRAL CALIFORNIA <BRK>. ML 2.9 (BRK).
a 13	20 14 13.7	3.061 S	130.412 E	26 *	5.2	1.2	62	CERAM
13	20 41 22.3	3.096 S	130.406 E	33 N	4.8 4.8	1.1	24	CERAM
13	21 17 57.7?	28.81 S	176.97 W	33 N	4.6 4.7	1.4	10	KERMADEC ISLANDS REGION
a 13	22 31 44.8	18.896 N	145.177 E	604	5.1	0.8	65	MARIANA ISLANDS
13	23 17 23.5?	33.84 S	71.36 W	59 ?		0.2	8	NEAR COAST OF CENTRAL CHILE
13	23 17 40.1%	38.230 N	118.773 W	14			8	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.2 (BRK).
13	23 31 23.1%	36.630 N	121.295 W	7			13	CENTRAL CALIFORNIA. <BRK>. ML 2.6 (BRK).
14	00 35 41.9?	32.78 S	71.44 W	55 ?		0.4	7	NEAR COAST OF CENTRAL CHILE
14	00 54 07.7	54.696 N	160.690 W	33 N	4.9	0.9	172	ALASKA PENINSULA. ML 4.8 (PMR). Ms 4.8 (BRK). Felt (II) at King Cove.
14	02 21 01.2?	20.02 S	177.45 W	420 ?	5.0	0.7	10	FIJI ISLANDS REGION
14	02 21 24.0*	10.909 S	124.295 E	61 *	4.9	1.3	19	TIMOR
14	02 53 32.7%	65.206 N	142.988 W	19			9	ALASKA. <AEIC>. ML 2.8 (AEIC).
14	04 30 08.5%	60.145 N	152.647 W	97			36	SOUTHERN ALASKA <AEIC>
14	04 44 20.0?	45.52 N	15.80 E	10 G		1.7	9	YUGOSLAVIA. MD 2.5 (LJU), 2.3 (TRI) ML 2.3 (ZAG), 2.1 (KBA). Felt in the Karlovac area.
14	04 49 24.3?	2.26 N	126.70 E	33 N	4.6	1.4	7	MOLUCCA PASSAGE
14	05 26 31.5?	11.24 N	61.83 W	33 N		0.9	5	WINDWARD ISLANDS MD 3.4 (TRN).
14	05 48 26.3?	52.89 N	172.44 W	33 N	4.1	1.5	11	ANDREANOF ISLANDS, ALEUTIAN IS.
14	06 38 34.2*	29.450 N	114.013 W	5 G	4.6 4.3	1.3	40	BAJA CALIFORNIA. MD 4.7 (ECX). Felt at Nueva Rosarita, Punta Prieta and Santa Rosalita.
14	07 40 14.4	43.368 N	110.669 W	5 G		0.8	12	WYOMING. ML 3.0 (GS), 3.0 (BUT).
14	07 41 43.6?	3.97 N	75.67 W	32 *		0.6	6	COLOMBIA. MD 3.4 (UVC).
14	07 48 45.6?	31.35 S	68.94 W	122 ?		0.9	11	SAN JUAN PROVINCE, ARGENTINA
14	07 52 31.3?	36.87 N	29.22 E	10 G		0.1	4	TURKEY
14	08 14 43.0%	39.575 N	28.861 E	10 G		1.0	10	TURKEY
14	08 24 24.1%	59.884 N	150.669 W	55			63	KENAI PENINSULA, ALASKA. <AEIC>. ML 2.9 (AEIC).
14	08 33 58.4*	9.739 S	151.730 E	33 N	4.1	1.1	7	DENTRECASTEAUX ISLANDS REGION
14	09 01 05.8*	45.740 S	72.591 W	10 G	5.1	1.1	21	NEAR COAST OF SOUTHERN CHILE
14	10 32 06.9	38.806 N	1.008 W	10 G		1.2	58	SPAIN. ML 4.2 (STR), 4.2 (LDG). mbLg 4.2 (MDD). Felt (V) at Caudete.
14	12 16 21.9?	17.53 N	94.22 W	33 N		0.0	5	CHIAPAS, MEXICO
14	12 40 32.1%	43.641 N	11.047 E	10 G		1.0	5	CENTRAL ITALY
f 14	12 53 26.0	54.389 N	169.296 W	275 G	5.7	1.0	521	FOX ISLANDS, ALEUTIAN ISLANDS. mb 6.1 (BRK). Felt (IV) at Nikolski and (III) at Sand Point. Also felt at Dutch Harbor and Unalaska. Depth from broadband displacement seismograms.
14	13 41 39.1	36.053 N	35.889 E	41 *	4.4	1.3	40	TURKEY. MD 4.1 (HLW). Felt at Antakya.
14	13 42 36.4	9.806 S	151.791 E	14 D	4.8 4.4	0.8	30	DENTRECASTEAUX ISLANDS REGION
14	14 55 21.1	38.979 N	23.284 E	10		0.7	11	GREECE. MD 3.1 (ATH).
14	15 49 37.8?	17.58 N	62.27 W	10 G		0.4	8	LEEWARD ISLANDS. ML 3.8 (FDF).
14	16 01 24.0*	35.282 S	71.031 W	106 *	4.7	1.0	29	CENTRAL CHILE. Felt (IV) at Curico, (III) at Rancagua and (II) at Santiago.
14	16 34 13.4?	17.74 N	93.56 W	33 N		0.3	4	CHIAPAS, MEXICO
14	17 28 23.7%	61.114 N	149.837 W	36			38	SOUTHERN ALASKA. <AEIC>. ML 2.6 (AEIC).
14	17 37 24.8?	7.89 S	107.51 W	10 G	4.7	1.7	25	NORTHERN EASTER I. CORDILLERA
a 14	17 43 07.4	3.159 N	127.949 E	124 D	5.5	1.0	116	TALAUD ISLANDS
14	18 13 52.8*	13.711 S	167.562 E	33 N	4.2	1.7	20	VANUATU ISLANDS
14	18 17 00.7*	14.766 N	93.747 W	33 N	4.7	1.1	26	NEAR COAST OF CHIAPAS, MEXICO
14	18 31 51.0	40.124 N	142.621 E	49	4.6	1.0	39	NEAR EAST COAST OF HONSHU, JAPAN
f 14	19 15 03.6	13.593 S	167.607 E	14 G	6.1 6.6	1.3	355	VANUATU ISLANDS. Ma=2.0*10**19 Nm (PPT). Depth from broadband displacement seismograms.
14	19 28 41.4*	13.586 N	91.733 W	33 N	4.9	1.3	21	NEAR COAST OF GUATEMALA
14	20 20 40.3*	13.657 S	167.622 E	33 N	4.7	1.3	27	VANUATU ISLANDS
14	20 44 19.1%	63.175 N	151.022 W	12	4.4		95	CENTRAL ALASKA. <AEIC>. ML 4.8 (AEIC), 5.0 (PMR). Felt (III) at Skwentna and (II) at Kantishna and Palmer.

14	21	38	07.27	6.92	S	124.68	E	580 ?	4.5	0.8	8	BANDA SEA
14	21	50	25.5&	34.250	N	117.950	W	10			17	SOUTHERN CALIFORNIA. <PAS-P>. ML 3.2 (PAS). Felt at Monrovia and Posodena.
14	22	31	16.8*	3.575	S	151.131	E	33 N	4.4	1.6	22	NEW IRELAND REGION
14	22	49	38 3&	60.181	N	153.194	W	138			29	SOUTHERN ALASKA. <AEIC>.
14	22	54	21.8?	13.79	S	167.56	E	33 N	4.7	1.3	21	VANUATU ISLANDS
14	23	36	00 7	45.478	N	21 158	E	10 G	4.7	1.4	126	ROMANIA. ML 4.8 (ZAG), 4.7 (VKA). MD 4.5 (TTG). Felt at Belgrade, Yugoslavia.
15	00	34	20.2*	23.786	N	122.609	E	33 N	4.0	1.6	9	TAIWAN REGION
15	00	56	33.4?	23.72	N	122.39	E	33 N		1.4	6	TAIWAN REGION
15	01	34	33.6	45.485	N	21.286	E	10 G		1.2	44	ROMANIA MD 4.5 (TRI). ML 4.4 (VKA). Felt (VI) in the epicentral area and (V) at Timisoara.
15	01	53	07 9	44.281	N	10.792	E	10 G		0.9	17	NORTHERN ITALY ML 2.7 (LDG).
15	02	32	50.6	3.132	N	84 299	W	10 G	4.7 4.2	0.9	43	OFF COAST OF CENTRAL AMERICA
15	02	38	15.0	45.608	S	72.543	W	10 G	5.2	1.1	26	NEAR COAST OF SOUTHERN CHILE. This is one of a series of earthquakes probably associated with the eruption of Hudson Volcano
15	02	43	17 9%	16.320	N	61 115	W	33 N		0.4	8	LEEWARD ISLANDS. ML 2.0 (FDF).
15	02	55	12.5*	48.463	N	145.408	E	4.7 *	4.1	0.8	39	SEA OF OKHOTSK
15	02	55	23.7%	41.135	N	15.075	E	10 G		1.0	12	SOUTHERN ITALY
15	03	27	00.2*	58.984	N	10.154	E	10 G		0.8	6	SWEDEN. MD 2.7 (BER).
15	03	32	14.8%	39.267	N	16.472	E	10 G		0.6	8	SOUTHERN ITALY
15	04	39	05.2	45.772	S	72 305	W	10 G	5.3 5.0	1.3	56	NEAR COAST OF SOUTHERN CHILE
15	04	44	37.4*	45.518	N	21 130	E	10 G		1.2	8	ROMANIA
15	04	48	02.2&	33.970	N	116.570	W	8			10	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.7 (PAS). Felt in the Palm Springs area.
15	04	58	58 6	41.120	N	22 034	E	10 G	4.3	1.2	94	YUGOSLAVIA. ML 4.3 (SKO). MD 4.1 (THE), 4.1 (ATH). Felt (V) in the Kozuf area and (IV) at Kavadarci. Also felt at Edhesso, Greece.
15	05	03	42 9	41.053	N	22.076	E	10 G		0.4	15	YUGOSLAVIA. MD 3.5 (ATH), 2.9 (THE). ML 3.3 (SKO).
15	05	18	25.7	41.110	N	22.054	E	10 G		0.6	8	YUGOSLAVIA. MD 1.9 (THE). ML 1.4 (SKO).
15	05	21	34 1	18.660	S	168.868	E	145	5.0	1.1	59	VANUATU ISLANDS
15	05	56	05.2&	61.140	N	151 389	W	68	3.5		36	SOUTHERN ALASKA. <AEIC>.
15	06	16	28 7%	60.379	N	5 296	E	5 G		0.2	9	SOUTHERN NORWAY. MD 1.8 (BER).
15	06	33	33 6	41.056	N	22 081	E	10 G		0.7	20	YUGOSLAVIA. MD 3.4 (ATH), 3.1 (THE). ML 3.4 (SKO).
15	06	50	35.7	45.558	S	72 233	W	10 G	5.5 5.1	1.3	74	NEAR COAST OF SOUTHERN CHILE
15	07	10	52.1&	33.880	N	117 590	W	9			6	SOUTHERN CALIFORNIA. <PAS-P> ML 2.5 (PAS).
15	07	16	07.1	40.786	N	77 657	W	1 G		0.7	14	PENNSYLVANIA. mbLg 3.0 (GS). Felt (V) at Centre Hall; (IV) at Madisonburg and Spring Mills; (III) at Caburn and Julian. Also felt at Pleasant Gap and Milheim.
15	07	35	59.6%	60.578	N	5.101	E	5 G		0.4	5	SOUTHERN NORWAY. MD 1.5 (BER).
15	08	10	17.1*	45.826	S	72 825	W	10 G	5.0	1.0	16	NEAR COAST OF SOUTHERN CHILE
15	08	21	22.7	41 076	N	22 077	E	10 G		0.4	10	YUGOSLAVIA. ML 2.3 (SKO). MD 2.2 (THE).
15	08	51	21.8*	45.746	S	72 390	W	10 G	4.9	1.1	16	NEAR COAST OF SOUTHERN CHILE
15	09	46	16.1*	45.801	S	72 611	W	13 D	5.4 5.4	1.5	65	NEAR COAST OF SOUTHERN CHILE
15	09	57	28.7?	56.28	S	141.43	W	10 G	5.2	1.7	7	SOUTH PACIFIC CORDILLERA
15	10	58	13.9*	45.713	S	72 557	W	10 G	5.3 5.1	1.5	20	NEAR COAST OF SOUTHERN CHILE
15	11	50	03.5*	45.740	S	72 537	W	10 G	5.1 4.5	1.0	22	NEAR COAST OF SOUTHERN CHILE
15	12	16	15.4	45.815	S	72.299	W	10 G	5.4 5.7	1.4	58	NEAR COAST OF SOUTHERN CHILE
15	12	55	36 5*	45.761	S	72 465	W	10 G	5.1	1.3	17	NEAR COAST OF SOUTHERN CHILE
15	13	07	27.1%	41.126	N	28.456	E	10 G		0.6	6	TURKEY
15	13	19	46.3*	5.950	N	82.358	W	10 G	4.7	1.2	16	SOUTH OF PANAMA
15	13	35	59.4	16.064	S	168.010	E	171 G	5.9	1.1	336	VANUATU ISLANDS. mb 5.7 (BRK). Mo=3.0*10**18 Nm (PPT). Depth from broadband displacement seismograms.
15	15	23	31.4	39.989	N	20.737	E	10 G		0.8	15	GREECE-ALBANIA BORDER REGION
15	15	53	37.2?	43.20	N	128.13	W	10 G		0.2	27	OFF COAST OF OREGON
15	16	00	00.0&	37.087	N	116.002	W	0	4.2		26	SOUTHERN NEVADA. <DOE>. ML 4.0 (BRK). 37° 05' 14.40" N., 116° 00' 06.45" W., Surface Elev. 1307 m., Depth of Burial 503 m., Shot Time 160000.000, "FLOYDATA," Nevada Test Site (Dept. of Energy).
15	16	13	14.4*	24.085	S	36.456	E	33 N	4.5	1.4	10	MOZAMBIQUE CHANNEL. mbLg 3.9 (BUL).
15	17	39	53.8%	44.436	N	11 663	E	10 G		0.3	6	NORTHERN ITALY
15	18	58	17.5?	34.15	S	72.05	W	33 N		0.8	9	NEAR COAST OF CENTRAL CHILE
15	19	35	22.0	45.408	N	21 085	E	10 G		1.1	25	ROMANIA
15	20	03	46.2&	60.983	N	151 141	W	8			61	KENAI PENINSULA, ALASKA. <AEIC>. ML 3.1 (AEIC), 3.4 (PMR).
15	20	52	07.0	41.069	N	22 077	E	11		0.5	12	YUGOSLAVIA. MD 2.5 (THE). ML 2.3 (SKO).
15	20	54	56.0	0.935	N	125.952	E	43 *	5.1	1.2	34	MOLUCCA PASSAGE
15	21	46	45.0	44.908	N	151 884	E	33 N	5.0 4.1	1.0	79	KURIL ISLANDS REGION
15	22	32	51.7	42.691	N	0 930	E	10 G		1.2	11	PYRENEES. ML 3.1 (LDG).
15	22	40	01.2	43.124	N	10.790	E	10 G		0.8	13	CENTRAL ITALY
15	22	43	04.0*	44.481	N	149.488	E	79 *	4.7	0.8	15	KURIL ISLANDS
15	22	46	42 7	43.125	N	10 735	E	10 G		0.8	13	CENTRAL ITALY
15	23	06	03 4	41.074	N	22 082	E	10 G		0.4	13	YUGOSLAVIA. MD 2.5 (THE). ML 2.3 (SKO).
15	23	06	16 0&	60.153	N	153 944	W	175			49	SOUTHERN ALASKA. <AEIC>.
15	23	20	44.3	41.067	N	22.067	E	10 G		0.4	15	YUGOSLAVIA. MD 3.1 (ATH), 2.8 (THE). ML 2.5 (SKO).
15	23	27	53 8	52 823	N	170.789	W	105 D	5.3	0.9	257	FOX ISLANDS, ALEUTIAN ISLANDS. Felt (IV) at Nikolski.
16	00	09	13 3&	62.074	N	151 600	W	95			35	CENTRAL ALASKA. <AEIC>.
16	00	27	44.8*	45.957	N	15 510	E	5 G		0.9	7	YUGOSLAVIA. MD 2.9 (LJU), 2.5 (TRI). Felt (IV) at Krsko.
16	00	38	52 6%	16 994	N	99 266	W	33 N		1.2	9	NEAR COAST OF GUERRERO, MEXICO
16	00	58	20.0	50.628	N	129 988	W	10 G	4.0	0.9	59	VANCOUVER ISLAND REGION
16	01	19	10.3*	45.489	N	21 157	E	10 G		1.5	10	ROMANIA
16	01	23	27.5*	30.861	N	78 651	E	33 N	4.2	0.2	7	NORTHERN INDIA
16	01	43	08 1%	46.472	N	3 007	E	5 G		0.4	9	FRANCE. ML 1.9 (LDG).
16	01	47	59 0	22.710	N	143.189	E	136 D	4.9	1.0	29	VOLCANO ISLANDS REGION
16	01	56	59.2	41.097	N	22.075	E	10 G		0.4	12	YUGOSLAVIA. MD 2.2 (THE). ML 1.6 (SKO).
16	02	05	40.9*	22.023	S	68.640	W	128 *	4.5	1.7	13	NORTHERN CHILE
16	02	42	38.4	42.709	N	12.747	E	10 G		1.0	8	CENTRAL ITALY
16	03	01	51.1	48.170	N	154.572	E	33 N	4.7	1.0	40	KURIL ISLANDS
16	03	10	34.5&	37.656	N	118.863	W	6			7	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 3.0 (GM).
16	03	40	47.3*	36.427	N	30.743	E	10 G		1.3	6	TURKEY. MD 4.1 (HLW).
16	04	47	47.6*	39.547	N	20.578	E	10 G		1.4	6	GREECE-ALBANIA BORDER REGION

16	05	44	33.87	45.56	N	6.90	E	5	G	0.2	5	FRANCE. ML 2.2 (GEN).	
16	06	28	20.17	40.38	N	23.88	E	5	G	0.7	4	GREECE	
16	06	30	14.9*	25.987	S	27.664	E	5	G	1.2	5	REPUBLIC OF SOUTH AFRICA. mbLg 3.5 (BUL).	
16	08	30	11.6%	42.468	N	13.124	E	10	G	1.2	6	CENTRAL ITALY	
16	08	59	58.8*	1.911	S	128.760	E	33	N	4.8	1.1	11 HALMAHERA	
16	09	29	46.6*	2.455	S	140.539	E	33	N	5.2	1.4	16 NEAR N. COAST OF WEST IRIAN	
16	09	56	20.0%	40.524	N	23.690	E	10	G	0.7	6	GREECE	
16	10	02	51.5%	46.386	N	2.720	E	10	G	0.4	6	FRANCE. ML 2.0 (LDG).	
16	10	34	51.5?	38.51	N	14.84	E	10	G	0.1	4	SICILY	
16	10	59	51.7?	20.74	S	178.10	W	498	*	4.8	0.9	22 FIJI ISLANDS REGION	
16	11	38	14.9?	38.34	N	133.75	E	484	?	0.4	12	SEA OF JAPAN	
16	12	02	08.6*	13.776	S	167.664	E	33	N	4.4	1.1	8 VANUATU ISLANDS	
16	12	13	29.7?	42.92	N	24.15	E	10	G	0.9	6	BULGARIA	
16	12	24	30.2%	40.189	N	23.605	E	5	G	0.6	6	GREECE	
16	12	49	43.5*	14.471	N	93.944	W	33	N	4.4	1.3	31 NEAR COAST OF CHIAPAS, MEXICO	
16	13	22	34.0?	14.06	N	94.22	W	33	N	4.4	1.6	6 OFF COAST OF CHIAPAS, MEXICO	
16	13	40	16.3	41.094	N	22.078	E	10	G	0.4	9	YUGOSLAVIA. MD 1.9 (THE). ML 1.3 (SKO).	
16	13	50	48.0	41.124	N	22.043	E	10	G	0.4	8	YUGOSLAVIA. MD 1.8 (THE). ML 1.3 (SKO).	
16	14	16	41.3	42.302	N	142.889	E	57	D	4.9	1.0	106 HOKKAIDO, JAPAN REGION	
16	14	47	14.9%	40.063	N	24.849	E	5	G	0.2	7	AEGEAN SEA	
16	14	51	35.3*	40.523	N	25.050	E	10	G	1.4	10	AEGEAN SEA	
16	15	02	54.6?	46.70	N	15.24	E	10	G	0.4	4	YUGOSLAVIA. MD 2.5 (LJU), 2.2 (TRI). Felt (IV) at Muta.	
16	15	23	17.7	44.370	N	7.334	E	10	G	0.5	17	NORTHERN ITALY. ML 2.3 (LDG), 2.2 (GEN).	
16	16	38	44.6	35.383	N	23.694	E	42	*	3.9	1.1	37 CRETE. MD 4.2 (HLW).	
16	17	45	41.3*	20.999	S	169.801	E	32	D	4.4	1.3	19 VANUATU ISLANDS	
16	18	17	17.2	41.087	N	22.416	E	10	G	0.4	9	YUGOSLAVIA. ML 2.1 (SKO). MD 1.8 (THE).	
16	18	24	44.0*	28.121	S	71.367	W	43	*	1.4	13	NEAR COAST OF CENTRAL CHILE	
16	19	29	24.4?	20.82	S	178.74	W	559	?	4.8	1.3	31 FIJI ISLANDS REGION	
16	20	15	54.0%	40.135	N	23.487	E	10	G	0.7	6	GREECE	
16	21	00	15.8*	41.517	N	13.775	E	14		1.5	15	SOUTHERN ITALY	
16	21	20	28.0	52.101	N	170.984	W	52		4.8	0.8	106 FOX ISLANDS, ALEUTIAN ISLANDS	
16	22	04	59.7*	36.514	N	71.177	E	138	*	4.7	1.1	19 AFGHANISTAN-USSR BORDER REGION	
16	22	08	11.5	44.657	N	10.917	E	10	G	1.2	17	NORTHERN ITALY. ML 2.8 (LDG).	
f 16	22	26	17.2	41.697	N	125.385	W	10	G	5.5	1.2	326 OFF COAST OF NORTHERN CALIFORNIA. ML 5.9 (BRK). Mo=5.0*10**18 Nm (PPT). Felt (V) at Redway and Trinidad, (IV) at Carlotta and (III) at Bridgeville, Ferndale, Fort Bragg, Hydesville, Redcrest and Rio Dell, California. Also felt at Crescent City and Eureka, California. Felt (IV) at Coquille, North Bend and Sixes, Oregon. Felt (III) at Agness, Brookings, Charleston, Grants Pass, Lake Oswego, Lakeside and Langlois, Oregon. Also felt at Coas Bay, Eugene and Medford, Oregon.	
16	22	35	15.0?	68.35	N	21.19	E	10	G	0.9	4	SWEDEN. MD 2.6 (BER).	
16	23	01	19.4*	41.452	N	125.404	W	5			5	OFF COAST OF NORTHERN CALIFORNIA. <GM-P>. MD 3.2 (GM).	
16	23	15	54.6*	41.452	N	125.493	W	5		3.5	6	OFF COAST OF NORTHERN CALIFORNIA. <GM-P>. MD 3.2 (GM).	
17	00	08	40.8%	28.991	S	115.849	E	10	G	1.4	6	WESTERN AUSTRALIA	
17	00	19	00.8?	17.57	S	177.34	W	400	G	4.1	1.3	13 FIJI ISLANDS REGION	
17	02	05	59.1*	41.714	N	125.863	W	3		4.2	6	OFF COAST OF NORTHERN CALIFORNIA. <GM-P>. MD 3.4 (GM).	
17	02	06	13.3%	39.290	N	27.910	E	10	G	0.6	14	TURKEY	
17	03	14	05.5*	23.544	S	67.074	W	33	N	1.4	7	CHILE-ARGENTINA BORDER REGION	
17	03	46	21.4	41.106	N	22.059	E	10	G	0.6	12	YUGOSLAVIA. MD 2.4 (THE). ML 2.0 (SKO).	
17	04	00	10.1%	39.897	N	28.855	E	10	G	0.6	9	TURKEY	
17	05	14	49.1	5.486	S	152.610	E	35	D	5.2	0.9	42 NEW BRITAIN REGION	
17	05	41	29.2%	16.171	N	61.159	W	33	N	1.2	7	LEEWARD ISLANDS. ML 2.0 (FDF).	
17	06	01	33.8*	6.953	N	73.243	W	154	*	4.4	0.8	11 NORTHERN COLOMBIA	
17	06	18	20.2	10.038	N	69.979	W	10	G	4.9	1.4	127 VENEZUELA. Foreshock. Felt.	
a 17	06	18	34.0	10.045	N	69.948	W	10	G	5.5	1.2	64 VENEZUELA. Ms 5.4 (BRK). At least 100 houses were damaged (V) in the Barquisimeto area. Felt (III) at Lagunillas. Felt at Caracas and in Carababa, Lara, Merida, Tachira and Trujillo.	
17	06	24	29.5*	42.304	N	15.539	E	10	G	1.6	32	ADRIATIC SEA. ML 3.7 (LDG).	
17	06	28	55.3*	34.198	S	139.082	E	33	N	4.1	1.5	10 NEAR SOUTH COAST OF AUSTRALIA	
17	06	36	22.8?	68.05	N	20.93	E	10	G	1.6	4	SWEDEN	
17	06	42	00.7?	48.39	N	7.71	E	10	G	0.4	4	FRANCE. ML 1.9 (LDG).	
17	07	04	11.1	23.896	S	66.542	W	211		4.5	1.2	29 JUJUY PROVINCE, ARGENTINA	
17	07	08	31.7*	59.642	N	151.434	W	50			38	KENAI PENINSULA, ALASKA. <AEIC>. ML 2.8 (AEIC).	
17	07	18	14.6?	4.17	N	77.01	W	33	N	0.9	4	NEAR WEST COAST OF COLOMBIA. MD 2.6 (UVC).	
17	07	21	13.9?	48.39	N	7.71	E	10	G	0.3	4	FRANCE. ML 1.5 (LDG).	
17	07	31	55.3%	16.188	N	61.653	W	33	N	0.4	5	LEEWARD ISLANDS. ML 1.6 (FDF).	
17	07	59	13.7%	44.623	N	10.160	E	10	G	1.0	9	NORTHERN ITALY	
17	08	07	38.3*	61.538	N	147.931	W	7			61	SOUTHERN ALASKA. <AEIC>. ML 3.0 (AEIC), 3.1 (PMR).	
17	08	10	28.1*	51.348	N	176.293	W	33	N	0.6	6	ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.5 (PMR). Felt (III) on Adak.	
17	08	44	47.3*	41.778	N	125.908	W	3		4.3	16	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 3.7 (BRK). MD 4.0 (GM).	
17	08	52	59.0*	41.787	N	126.098	W	5		4.4	15	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 3.7 (BRK). MD 3.9 (GM).	
17	08	53	49.6*	32.020	S	69.655	W	149	?		0.6	12	MENDOZA PROVINCE, ARGENTINA
17	08	58	34.5*	41.773	N	125.627	W	22			5	OFF COAST OF NORTHERN CALIFORNIA. <GM-P>. MD 3.6 (GM).	
17	09	17	36.1?	41.17	N	28.49	E	10	G	0.2	4	TURKEY	
17	10	54	37.4%	39.182	N	27.929	E	10	G	0.8	6	TURKEY	
17	11	08	46.8?	2.25	N	127.32	E	114	?	4.9	0.5	9 MOLUCCA PASSAGE	
17	12	35	39.4?	25.51	S	179.75	E	538	?	4.9	1.1	15 SOUTH OF FIJI ISLANDS	
o 17	12	39	03.8	10.617	N	62.176	W	63	D	5.2	0.9	272 NEAR COAST OF VENEZUELA. MD 5.4 (TRN). Felt strongly in the Part of Spain and Point Martin areas, Trinidad. Felt (IV) at St. Augustine, Trinidad.	
17	12	56	10.2*	6.323	S	130.279	E	161	*	5.0	1.3	12 BANDA SEA	
17	13	01	48.4	44.425	N	7.319	E	10	G	0.5	19	NORTHERN ITALY. ML 2.6 (LDG), 2.4 (GEN).	
17	13	37	15.6*	11.545	N	86.914	W	30	D	4.6	1.5	46 NEAR COAST OF NICARAGUA	
17	14	45	53.1%	40.741	N	27.675	E	10	G	1.4	5	TURKEY	
17	14	56	01.1	32.023	S	67.832	W	116		4.4	0.9	21 MENDOZA PROVINCE, ARGENTINA	
17	15	47	38.3	41.262	N	72.345	E	33	N	4.1	0.9	12 KIRGHIZ SSR	

17	16 13 49.4	40.030 N	20.660 E	10 G	0.6	5	GREECE-ALBANIA BORDER REGION
17	16 27 52.1	41.827 N	125.627 W	22		2	OFF COAST OF NORTHERN CALIFORNIA. <GM-P>. MD 3.0 (GM).
17	17 50 27.5	44.105 N	6.975 E	10 G	0.6	34	FRANCE. ML 2.8 (GEN), 2.7 (LDG).
17	18 19 08.7	23.381 N	121.719 E	33 N	4.4	0.6	6 TAIWAN
17	18 28 12.2	39.902 N	28.857 E	5 G		0.5	10 TURKEY
17	18 47 22.3	19.53 S	177.25 W	450 G	4.3	1.3	11 FIJI ISLANDS REGION
f 17	19 29 40.0	40.235 N	124.348 W	12	6.0 6.2	507	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 6.0 (BRK). Mo=3.0*10**18 Nm (PPT). Damage (VII) at Honeydew and Whitethorn. Slight damage (VI) at Garberville, Myers Flat and Piercy. Also slight damage and landslides in the Petrolia area. Felt (V) at Alderpoint, Corlatto, Covelo, Fields Landing, Finley, Fortuna, Fort Bragg, Leggett, Laleto, Manchester, Phillipsville, Redcrest, Redway, Rio Dell, Solyer, Weatt, Westport, Willits and Zenia. Felt from Grants Pass, Oregon south as far as Sacramento and San Francisco. Depth 10.1 kilometers from broadband displacement seismograms.
17	19 37 00.8	40.263 N	124.382 W	9		2	NEAR COAST OF NORTHERN CALIF. <GM-P>. MD 3.4 (GM).
17	19 39 17.8	39.993 N	123.992 W	6		4	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.4 (BRK).
17	19 42 06.7	40.302 N	124.425 W	8		4	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.5 (BRK). MD 3.2 (GM).
17	19 45 02.5	40.309 N	124.441 W	10		4	NEAR COAST OF NORTHERN CALIF. <GM-P>. MD 3.0 (GM).
17	19 46 48.1	43.048 N	0.466 W	10 G		0.4	6 PYRENEES. ML 1.0 (STR).
17	20 00 43.0	40.308 N	124.322 W	15		9	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 2.9 (BRK). MD 3.5 (GM).
17	20 09 44.4	40.285 N	124.483 W	3		2	NEAR COAST OF NORTHERN CALIF. <GM-P>. MD 3.0 (GM).
17	20 17 25.8	40.235 N	124.267 W	7		12	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.5 (BRK).
17	20 55 56.5	40.232 N	124.322 W	13	4.0	18	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.6 (BRK).
17	20 58 52.4	41.789 N	125.888 W	2		7	OFF COAST OF NORTHERN CALIFORNIA. <GM-P>. MD 3.1 (GM).
17	21 14 58.8	13.756 S	167.688 E	43 *	4.8	1.2	47 VANUATU ISLANDS
17	21 31 24.9	18.94 S	174.78 W	130 G	4.8	1.7	20 TONGA ISLANDS
f 17	22 17 14.6	41.821 N	125.397 W	14 G	6.2 7.1	1.2	431 OFF COAST OF NORTHERN CALIFORNIA. ML 6.8 (BRK). Mo=6.0*10**19 Nm (PPT). Felt (V) at Klamath, Phillipsville, Rio Dell and Trinidad; (IV) at Bridgeville, Fortuna, Myers Flat and Whitethorn. Also felt (V) at Lakeside, North Bend and Pistol River, Oregon; (IV) at Coos Bay, Coquille, Murphy, Reedsport, Rogue River, Roseburg, Sixes and Scottsburg, Oregon. Felt as far as Sacramento, California and Eugene, Oregon. Depth from broadband displacement seismograms.
17	22 42 37.2	41.473 N	126.203 W	5		7	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 4.0 (BRK).
17	22 47 47.8	41.732 N	125.652 W	5		6	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 3.6 (BRK). Double event, second shock about 33 seconds later (BRK).
17	22 56 09.7	41.527 N	126.227 W	5	4.5	10	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 3.9 (BRK). MD 4.5 (GM).
17	23 00 25.8	41.870 N	125.687 W	5	4.8	40	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 4.2 (BRK). MD 4.1 (GM).
17	23 05 01.7	41.468 N	126.222 W	5		12	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 3.7 (BRK).
17	23 13 38.5	41.848 N	125.745 W	5		10	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 3.8 (BRK). MD 3.6 (GM).
17	23 16 31.6	60.087 N	152.814 W	104		55	SOUTHERN ALASKA. <AEIC>.
17	23 28 08.1	40.268 N	124.428 W	11		10	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.6 (BRK). MD 3.6 (GM).
18	00 03 22.8	40.243 N	124.282 W	13		13	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.7 (BRK). MD 4.0 (GM).
18	00 55 34.9	39.823 N	23.951 E	5 G		0.4	8 AEGEAN SEA
18	01 19 43.1	46.704 N	10.474 E	10 G		1.3	35 NORTHERN ITALY. MD 2.9 (TRI). ML 2.8 (LDG), 2.4 (VIE), 2.3 (FUR).
18	02 04 56.3	40.263 N	124.415 W	10		9	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.6 (BRK). MD 3.4 (GM).
18	02 08 35.9	41.460 N	126.310 W	4	4.2	14	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 3.6 (BRK).
18	03 21 53.0	40.277 N	124.420 W	9		7	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.3 (BRK). MD 3.0 (GM).
18	04 32 34.1	43.02 N	128.40 W	10 G		0.3	36 OFF COAST OF OREGON
18	05 01 25.2	39.782 N	28.669 E	10 G		0.5	8 TURKEY
18	05 08 41.5	38.57 N	21.87 E	10 G		1.0	11 GREECE
18	05 24 25.6	32.19 S	70.00 W	130 ?		0.6	10 CHILE-ARGENTINA BORDER REGION
18	05 45 12.5	4.092 S	127.052 E	257 *	5.0	1.0	29 BANDA SEA
18	06 16 53.8	43.157 N	0.886 E	10 G		1.7	5 FRANCE. ML 2.6 (LDG), 2.6 (STR).
18	06 26 32.9	38.903 N	15.985 E	41 ?		0.4	9 SICILY
18	07 44 30.5	56.829 N	153.065 W	35	4.1	40	KODIAK ISLAND REGION. <AEIC>. ML 3.6 (AEIC), 3.7 (PMR).
18	07 47 57.0	39.012 N	29.706 E	8		1.1	30 TURKEY
18	08 05 28.1	40.306 N	124.432 W	9		3	NEAR COAST OF NORTHERN CALIF. <GM-P>. MD 3.0 (GM).
18	09 31 35.0	37.022 N	23.261 E	10 G		1.5	6 SOUTHERN GREECE. MD 3.2 (ATH).
18	10 47 40.5	1.495 N	122.636 E	46 D	4.6 4.4	1.5	22 MINAHASSA PENINSULA
18	10 52 51.3	17.994 S	178.572 W	578 D	5.4	1.0	159 FIJI ISLANDS REGION
18	11 07 22.3	40.240 N	124.348 W	11	4.3	51	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.8 (BRK). Felt (V) at Garberville, Honeydew, Laleto and Whitethorn; (IV) at Piercy, Redcrest and Rio Dell; (III) at Bridgeville, Myers Flat and Weatt.
18	11 56 53.2	16.773 S	128.609 E	10 G	3.8	0.8	12 WESTERN AUSTRALIA
18	12 05 22.7	16.696 S	128.559 E	10 G		0.4	6 WESTERN AUSTRALIA
18	12 20 15.3	24.70 N	122.65 E	33 N	3.6	1.4	5 TAIWAN REGION
18	12 26 25.5	16.09 N	97.74 W	33 N		1.5	5 OAXACA, MEXICO
18	13 17 48.1	43.21 N	10.82 E	10 G		0.5	5 CENTRAL ITALY
18	13 18 12.2	19.33 N	99.22 W	5 G		1.1	5 CENTRAL MEXICO
18	13 32 03.5	13.99 N	60.51 W	76 ?		0.2	6 WINDWARD ISLANDS. MD 2.7 (TRN).
18	14 45 07.2	24.321 N	142.083 E	542 *	4.5	0.8	37 VOLCANO ISLANDS REGION
18	14 45 26.5	24.330 N	142.046 E	550 *	5.0	0.8	52 VOLCANO ISLANDS REGION
18	15 14 13.4	40.490 N	126.313 W	5		71	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 3.3 (BRK).
18	15 29 20.3	58.175 N	151.523 W	0		5	KODIAK ISLAND REGION. <AEIC>. ML 2.7 (AEIC).
18	15 33 18.8	0.066 N	123.200 E	177 *	5.0	1.1	21 MINAHASSA PENINSULA

18	15 50 47.2?	15.86 N	97.75 W	31 D	4.1	1.5	17	NEAR COAST OF OAXACA, MEXICO
18	16 36 11.9&	60.241 N	152.255 W	89			65	SOUTHERN ALASKA. <AEIC>.
18	17 12 24.8&	64.941 N	148.538 W	33			34	CENTRAL ALASKA. <AEIC>. ML 3.3 (AEIC), 3.6 (PMR). Felt in the Ester-Fairbanks area.
18	17 47 23.0	33.271 S	71.199 W	52 ?		0.5	10	NEAR COAST OF CENTRAL CHILE
18	19 12 36.5?	22.91 N	121.44 E	33 N		0.7	5	TAIWAN REGION
18	19 38 51.8?	51.17 N	15.82 E	10 G		0.4	4	POLAND
18	19 59 25 6	41.973 N	125.480 W	10 G	4.5 4.1	0.9	101	OFF COAST OF NORTHERN CALIFORNIA. ML 3.7 (BRK). Felt (III) at Myrtle Point, Pistol River and Sixes, Oregon.
18	20 05 46.5&	63.083 N	149.259 W	74			51	CENTRAL ALASKA. <AEIC>.
o 18	21 52 06.0	31.939 S	71.483 W	46 D	5.4 4.9	1.0	104	NEAR COAST OF CENTRAL CHILE. Felt (IV) in the epicentral area.
18	22 10 38.7&	60.646 N	146.910 W	21			38	SOUTHERN ALASKA. <AEIC>. ML 2.5 (AEIC).
18	22 22 18.6&	40.310 N	124.348 W	11			11	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.1 (BRK). MD 3.5 (GM).
18	23 01 44.4	45.459 N	20.978 E	10 G		0.8	14	YUGOSLAVIA ML 3.0 (VKA).
18	23 21 03.9?	18.57 N	65.82 W	33 N		0.4	6	PUERTO RICO REGION
19	00 32 59.7	42.438 N	0.586 E	10 G		1.0	10	PYRENEES. mbLg 2.9 (MDD) ML 2.7 (STR), 2.7 (LDG).
19	00 36 05.4?	18.14 N	100.33 W	33 N		0.7	6	GUERRERO, MEXICO
19	00 46 14.7*	2.327 S	79.267 W	105 *	4.6	1.2	22	NEAR COAST OF ECUADOR. MD 4.6 (QUI).
19	01 15 32.5?	11.02 N	61.94 W	33 N		0.9	5	WINDWARD ISLANDS. MD 3.2 (TRN).
19	02 41 11.8*	15.875 S	75.165 W	33 N	4.8 4.3	1.4	18	NEAR COAST OF PERU
19	02 46 49.5	36.354 N	21.478 E	10 G	3.7	1.2	33	SOUTHERN GREECE. MD 3.7 (ATH).
19	03 23 27.5	51.091 S	159.355 E	10 G	5.0	1.3	17	NORTH OF MACQUARIE ISLAND
19	03 26 20.4?	36.97 N	69.85 E	265 ?		0.6	8	HINDU KUSH REGION
19	03 51 36.1	41.096 N	22.060 E	10 G		0.4	11	YUGOSLAVIA. ML 1.8 (SKO).
19	04 24 48.7	40.322 N	126.404 W	10 G	4.2	0.6	83	OFF COAST OF NORTHERN CALIFORNIA. ML 3.7 (BRK).
19	05 03 30.3	85.463 N	14.456 E	10 G	5.0 4.5	0.8	20	NORTH OF SVALBARD
19	05 21 21.8	22.737 N	142.873 E	109 *	5.1	1.4	43	VOLCANO ISLANDS REGION
19	05 23 56.6?	14.10 N	90.67 W	33 N	4.3	0.8	9	GUATEMALA
19	05 58 24.0?	6.22 S	104.62 E	33 N	4.7	1.0	14	SUNDA STRAIT
o 19	06 05 51.3	46.944 N	85.302 E	30 D	5.5 5.1	0.9	314	NORTHERN XINJIANG, CHINA
19	06 32 04.1*	15.947 N	92.473 W	208	4.3	1.3	20	MEXICO-GUATEMALA BORDER REGION
19	08 02 06.3?	40.73 N	73.26 E	33 N	4.3	1.7	5	KIRGHIZ SSR
19	09 25 41.4&	18.758 N	156.645 W	52			46	HAWAII. <HVO-P> MD 4.0 (HVO). Felt at Hawaiian Ocean View Estates.
19	11 00 39.5	43.228 N	21.003 E	10 G		1.2	14	YUGOSLAVIA. ML 2.4 (TTG).
19	11 12 31.2&	60.535 N	151.886 W	71			44	KENAI PENINSULA, ALASKA. <AEIC>.
19	11 23 25.8	46.675 N	10.492 E	9		1.1	44	NORTHERN ITALY. ML 3.3 (STR), 3.2 (KBA), 3.1 (LDG), 3.0 (FUR). MD 3.1 (TRI).
19	11 34 07.3*	37.491 N	71.999 E	130 G	4.9	1.2	9	AFGHANISTAN-USSR BORDER REGION
19	12 39 08.2*	22.253 N	123.696 E	28 *	4.5	1.4	15	SOUTHEAST OF TAIWAN
19	13 23 59.7?	40.94 N	23.32 E	10 G		0.3	4	GREECE
19	13 24 18.8?	40.88 N	23.42 E	10 G		1.0	4	GREECE
19	13 32 21.5&	63.503 N	153.037 W	37			32	CENTRAL ALASKA. <AEIC>. ML 2.8 (AEIC), 3.1 (PMR).
19	13 54 08.0&	44.386 N	7.372 E	10 G		0.4	8	NORTHERN ITALY. ML 1.6 (GEN).
19	14 34 32.4?	12.15 S	118.10 E	33 N	4.1	1.6	7	SOUTH OF SUMBAWA ISLAND
19	15 15 04.9&	50.490 N	130.116 W	10 G	4.0		87	VANCOUVER ISLAND REGION. <PGC>. ML 4.2 (PGC).
19	15 27 32.4?	16.27 N	100.84 W	33 N		1.0	6	NEAR COAST OF GUERRERO, MEXICO
19	15 37 26.9*	7.385 S	128.717 E	170 ?	4.6	1.5	14	BANDA SEA
19	16 53 52.6*	43.915 N	113.787 W	5 G		0.5	7	EASTERN IDAHO. ML 3.0 (BUT).
19	18 28 44.7?	16.98 N	60.77 W	16 *		0.3	9	LEEWARD ISLANDS. ML 3.1 (FDF).
19	19 24 25.6&	44.569 N	7.246 E	10 G		0.2	5	NORTHERN ITALY. ML 1.8 (GEN).
19	19 41 59.1?	39.96 N	25.06 E	10 G		1.6	6	AEGEAN SEA
19	21 31 11.5*	4.086 S	149.774 E	33 N	4.7	1.6	7	BISMARCK SEA
19	21 52 02.4*	17.131 N	100.455 W	67 *	4.3	1.3	31	GUERRERO, MEXICO
19	22 04 45.0&	16.305 N	61.731 W	28 *		0.5	7	LEEWARD ISLANDS. ML 1.8 (FDF).
19	23 31 13.2&	61.784 N	151.015 W	75			52	SOUTHERN ALASKA. <AEIC>.
20	00 39 57.0&	45.148 N	2.795 E	5 G		0.8	10	FRANCE. ML 2.3 (LDG).
20	01 50 48.2	44.646 N	8.115 E	5 G		1.0	12	NORTHERN ITALY. ML 2.0 (GEN), 2.0 (LDG).
20	02 26 55.2?	37.397 N	15.973 E	10 G		0.5	6	SICILY
20	03 04 43.4&	40.268 N	124.470 W	5			5	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.1 (BRK). MD 3.4 (GM).
20	04 20 55.2?	9.72 N	69.60 W	33 N	4.6	1.4	11	VENEZUELA
20	04 51 31.3&	40.442 N	23.075 E	5 G		0.7	8	GREECE
20	05 06 25.8*	30.630 N	79.767 E	33 N	4.2	1.5	9	TIBET-INDIA BORDER REGION. MD 4.1 (NDI).
20	05 19 40.4	48.848 N	154.219 E	33 N	4.7	0.9	43	KURIL ISLANDS
20	05 26 15.8*	31.117 S	70.591 W	153 ?		0.7	14	CHILE-ARGENTINA BORDER REGION
20	05 28 01.3?	60.24 S	23.79 W	33 N		0.8	7	SOUTH SANDWICH ISLANDS REGION
20	06 04 03.0*	26.304 S	27.462 E	5 G		1.1	8	REPUBLIC OF SOUTH AFRICA. mbLg 3.6 (BUL).
20	06 23 41.3?	3.81 N	77.02 W	32 *		0.5	6	NEAR WEST COAST OF COLOMBIA. MD 3.2 (UVC).
20	07 45 09.2	41.172 N	22.032 E	10 G		1.0	11	YUGOSLAVIA. MD 2.9 (THE).
o 20	08 46 40.5	37.646 N	72.150 E	135 D	5.2	0.9	249	TAJIK SSR
20	08 52 08.7&	36.442 N	120.340 W	17			7	CENTRAL CALIFORNIA. <BRK>. ML 2.5 (BRK).
20	09 19 29.5	36.368 N	71.593 E	33 N	4.8	1.1	29	AFGHANISTAN-USSR BORDER REGION
20	09 31 31.5	10.478 N	61.687 W	43		0.7	25	TRINIDAD. MD 4.3 (TRN). Felt on Trinidad.
20	10 19 44.1?	38.43 N	21.81 E	10 G		0.5	5	GREECE
20	10 34 59.1	18.544 S	175.826 W	268 D	4.7	1.1	46	TONGA ISLANDS
20	11 08 36.5&	42.919 N	12.896 E	10 G		1.4	8	CENTRAL ITALY
20	11 15 38.6&	37.246 N	2.368 W	10 G		0.2	6	SPAIN. mbLg 2.6 (MDD).
20	11 28 56.3	44.288 N	9.129 E	10 G		0.7	45	NORTHERN ITALY. ML 3.0 (LDG), 2.9 (GEN).
20	11 46 33.1*	26.267 S	27.467 E	5 G		1.3	5	REPUBLIC OF SOUTH AFRICA. mbLg 3.4 (BUL).
20	12 29 29.2&	38.003 N	14.995 E	10 G		1.2	6	SICILY
20	12 29 38.1	5.815 S	128.525 E	336 *	4.9	1.1	29	BANDA SEA
20	13 52 35.7&	37.937 N	15.047 E	10 G		1.5	9	SICILY
20	13 59 56.3?	37.956 N	15.001 E	10 G		1.3	6	SICILY
20	14 29 00.7?	32.80 S	178.88 W	33 N	4.9	1.6	9	SOUTH OF KERMADEC ISLANDS
20	15 05 17.4?	10.52 N	61.63 W	33 N		0.0	4	TRINIDAD. MD 3.2 (TRN).
20	15 12 32.3	44.249 N	149.515 E	38 D	4.9	0.9	63	KURIL ISLANDS
20	15 49 55.6	41.986 N	23.257 E	10 G		0.8	11	GREECE-BULGARIA BORDER REGION. ML 2.2 (SKO).
20	16 25 20.4&	59.986 N	153.470 W	147			30	SOUTHERN ALASKA. <AEIC>.
20	17 16 58.8&	44.387 N	7.360 E	5 G		0.1	5	NORTHERN ITALY. ML 1.4 (GEN).
20	17 32 04.9&	10.073 N	70.055 W	10 G		0.4	7	VENEZUELA

20	18 00 06.9?	37.96 N	14.75 E	10 G	0.6	4	SICILY
20	18 01 10.8*	46.746 N	152.807 E	33 N	4.8	0.8	39 KURIL ISLANDS
20	19 09 18 0	39.025 N	21.339 E	88 *	0.7	29	GREECE. MD 3.4 (ATH).
20	19 12 21 7&	63.586 N	150.867 W	12		47	CENTRAL ALASKA. <AEIC>. ML 3.4 (AEIC), 3.6 (PMR).
20	20 19 51 4?	15.23 N	61.22 W	148 ?	0.5	11	LEEWARD ISLANDS
20	20 47 01.9	45.215 N	7.402 E	13	0.5	15	NORTHERN ITALY. ML 2.3 (GEN).
20	21 02 43 1?	44.97 N	6.66 E	10 G	1.4	4	FRANCE. ML 1.3 (GEN).
20	21 15 19 4*	44.355 N	7.338 E	10 G	0.7	6	NORTHERN ITALY. ML 1.4 (GEN).
20	21 16 17 8*	13.226 N	88.807 W	81	4.6	1.1	19 EL SALVADOR. Felt (III) at San Salvador.
20	22 24 02 6?	34.18 S	70.76 W	80 G	0.4	8	CHILE-ARGENTINA BORDER REGION
20	23 53 47 0	37.925 N	14.991 E	31	0.6	10	SICILY. MD 3.5 (ROM).
20	23 54 01 4%	37.903 N	15.079 E	12	1.2	12	SICILY
20	23 54 36.1?	37.82 N	15.05 E	10 G	0.1	4	SICILY
20	23 55 06 3?	37.89 N	15.01 E	10 G	0.4	4	SICILY
21	00 07 35 6%	41.858 N	13.060 E	10 G	0.4	5	SOUTHERN ITALY
21	01 36 19.3	53.579 N	163.813 W	33 N	4.7 4.0	0.9	81 UNIMAK ISLAND REGION. ML 4.8 (PMR).
21	02 18 19 4*	53.475 N	163.739 W	33 N	4.1	1.0	11 UNIMAK ISLAND REGION
21	02 41 58 9	39.079 N	16.157 E	78	1.1	49	SOUTHERN ITALY
21	03 00 18 1*	32.202 N	70.649 E	33 N	4.3	0.8	11 PAKISTAN
21	03 00 42.0?	25.76 S	178.23 W	244 ?	4.3	1.2	7 SOUTH OF FIJI ISLANDS
21	04 50 39.5?	45.46 N	26.92 E	33 N	0.2	4	ROMANIA
21	04 54 42.4?	44.23 N	25.70 E	33 N	0.7	5	ROMANIA
21	05 11 54.7%	60.700 N	5.561 E	10 G	0.7	5	SOUTHERN NORWAY. MD 1.5 (BER).
21	05 12 26.6&	40.257 N	124.525 W	3		10	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.1 (BRK). MD 3.4 (GM).
21	05 24 27.6*	34.394 S	179.802 W	77 ?	5.1	1.0	17 SOUTH OF KERMADEC ISLANDS
21	06 44 10.0?	29.60 S	71.66 W	33 N		1.3	7 NEAR COAST OF CENTRAL CHILE
21	06 49 27.9%	38.087 N	14.709 E	5 G		1.1	10 SICILY
21	06 51 07.2%	37.983 N	14.801 E	5 G		1.4	5 SICILY
21	07 06 04.5%	38.055 N	14.725 E	5 G		0.5	6 SICILY
21	07 32 08.6%	37.843 N	15.021 E	10 G		0.5	5 SICILY
21	07 36 08.8?	7.73 S	128.09 E	139 ?	4.4	1.4	9 BANDA SEA
21	09 16 54.6%	35.364 N	3.855 W	10 G		0.8	13 STRAIT OF GIBRALTAR. mbLg 3.4 (MDD).
21	09 19 32.6%	44.386 N	7.374 E	10 G		0.6	7 NORTHERN ITALY. ML 1.7 (GEN).
21	09 29 40.4?	9.06 S	120.29 E	186 ?	4.8	0.4	8 SUMBA ISLAND REGION
21	10 58 54.0%	37.997 N	14.759 E	10 G		0.8	5 SICILY
21	11 32 17.5?	38.71 N	23.51 E	10 G		0.5	4 GREECE
21	12 51 14.3%	43.123 N	0.447 W	10 G		0.4	5 PYRENEES. ML 1.0 (STR).
21	12 59 26.2%	44.461 N	6.640 E	10 G		0.4	7 FRANCE. ML 1.8 (GEN).
21	13 27 15.1	32.501 S	70.807 W	85 *		0.5	12 CHILE-ARGENTINA BORDER REGION
21	13 30 07.0?	37.91 N	15.13 E	10 G		0.8	4 SICILY
21	13 47 06.2&	39.364 N	111.878 W	4		12	UTAH. <SLC-P>. ML 3.0 (SLC).
21	15 06 23 4%	41.271 N	29.041 E	10 G		0.7	8 TURKEY
21	16 03 25.8	30.689 S	72.101 W	38	4.9 5.2	1.0	39 OFF COAST OF CENTRAL CHILE. Felt (II) at Santiago.
21	17 07 40.4	37.290 N	121.654 W	5 G		0.5	10 CENTRAL CALIFORNIA. MD 2.3 (GM).
21	17 49 23.6	26.268 S	27.227 E	5 G		1.1	7 REPUBLIC OF SOUTH AFRICA. mbLg 3.5 (BUL).
21	18 09 12.8*	6.400 S	154.537 E	64 *	4.4	1.1	10 SOLOMON ISLANDS
21	19 15 01.6&	61.511 N	149.777 W	31		85	SOUTHERN ALASKA. <AEIC>. ML 3.8 (AEIC), 3.8 (PMR). Felt (IV) at Anchorage, Butte, Palmer, Wasilla and Willow. Felt (III) at Eagle River
21	20 22 07.0*	36.334 N	68.873 E	33 N	4.3	1.2	15 HINDU KUSH REGION
21	21 52 14.2&	41.562 N	126.238 W	5	3.8	55	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 3.8 (BRK).
21	22 00 07.7	41.887 N	23.189 E	10 G		0.5	12 GREECE-BULGARIA BORDER REGION. ML 2.1 (SKO).
21	22 48 01.6*	30.953 S	68.090 W	10 G		0.9	9 SAN JUAN PROVINCE, ARGENTINA
21	23 51 40.8*	32.100 S	71.707 W	10 G		0.9	13 NEAR COAST OF CENTRAL CHILE
21	23 58 17.1*	23.319 S	66.875 W	235 *		0.4	7 JUJUY PROVINCE, ARGENTINA
22	00 17 52.2*	13.388 S	167.307 E	42 ?	4.1 4.4	1.2	11 VANUATU ISLANDS
22	00 40 35.2	44.343 N	7.206 E	10 G		0.5	11 NORTHERN ITALY. ML 2.1 (GEN), 1.9 (LDG).
22	00 58 40.1*	45.816 S	72.809 W	10 G	5.1 5.1	1.1	22 NEAR COAST OF SOUTHERN CHILE. Felt in the Perita Moreno area, Argentina.
22	01 07 55.0	51.139 N	176.487 W	33 N	4.9 4.5	1.0	40 ANDREANOF ISLANDS, ALEUTIAN IS. ML 4.0 (PMR). Felt (III) on Adak.
22	01 53 49 7	17.166 N	95.189 W	116	4.5	1.1	40 OAXACA, MEXICO
22	02 02 08.3	38.036 N	20.235 E	10 G		0.9	13 GREECE. MD 3.4 (ATH).
22	02 11 59 9?	41.92 N	125.87 W	10 G		0.4	46 OFF COAST OF NORTHERN CALIFORNIA
22	03 26 50.5%	39.274 N	27.923 E	10 G		1.2	6 TURKEY
22	03 53 41.1*	25.030 N	91.330 E	33 N	4.7	1.1	15 INDIA-BANGLADESH BORDER REGION. Felt at Shillang, India.
22	04 10 01 6%	44.388 N	8.992 E	10 G		0.3	9 NORTHERN ITALY. ML 2.1 (GEN).
22	04 50 16.4?	24.31 S	179.77 E	587 ?	5.1	1.1	16 SOUTH OF FIJI ISLANDS
22	05 21 45.7%	37.903 N	14.991 E	27 *		0.8	6 SICILY
22	05 32 16 1?	18.21 S	173.50 W	33 N	5.1	1.0	9 TONGA ISLANDS
22	06 50 24.3	41.070 N	22.078 E	10 G		0.7	11 YUGOSLAVIA. MD 2.5 (THE). ML 2.5 (SKO).
22	07 07 43.1	23.728 S	179.819 W	521 D	5.3	1.0	105 SOUTH OF FIJI ISLANDS
22	07 45 49 4%	40.241 N	29.448 E	10 G		0.7	5 TURKEY
22	08 16 40 7	19.591 N	63.341 W	33 N		0.6	19 LEEWARD ISLANDS. ML 4.5 (FDF).
22	08 29 41.6*	42.448 N	23.353 E	10 G		1.3	8 BULGARIA
22	08 38 51 0	41.216 N	23.629 E	28		0.9	16 GREECE-BULGARIA BORDER REGION. MD 3.3 (ATH), 3.2 (THE).
22	10 18 04 8?	44.04 N	10.10 E	5 G		0.9	5 NORTHERN ITALY
22	10 30 46 7?	35.88 N	0.39 W	10 G		0.9	9 ALGERIA. mbLg 3.2 (MDD).
22	13 18 12.6	23.834 S	179.790 W	535 D	5.3	1.0	136 SOUTH OF FIJI ISLANDS
22	13 22 19 9%	40.791 N	27.987 E	10 G		0.4	7 TURKEY
22	15 03 16 1&	59.931 N	153.319 W	148		25	SOUTHERN ALASKA. <AEIC>.
22	15 03 33.4	44.245 N	7.588 E	10 G		0.8	12 NORTHERN ITALY. ML 2.5 (LDG).
22	15 31 50 4*	37.471 N	71.179 E	33 N	4.8	1.0	9 AFGHANISTAN-USSR BORDER REGION
22	16 37 15.6%	44.387 N	7.313 E	10 G		0.2	6 NORTHERN ITALY. ML 1.5 (GEN).
22	18 26 33.8*	5.393 S	151.677 E	80 ?	4.7	0.4	9 NEW BRITAIN REGION
22	19 47 35.9*	28.050 S	26.821 E	5 G	4.5	1.5	7 REPUBLIC OF SOUTH AFRICA
22	19 51 43.9	38.943 N	29.264 E	10 G		0.5	15 TURKEY
22	21 03 42.0?	7.80 S	128.32 E	168 ?	4.8	1.2	8 BANDA SEA
22	21 10 37.5%	43.042 N	0.473 W	10 G		0.3	6 PYRENEES. ML 1.0 (STR).
22	21 15 04.5	55.771 N	114.364 E	23 D	5.2 4.7	0.8	174 EAST OF LAKE BAIKAL
22	21 17 28.4%	39.288 N	27.836 E	10 G		0.4	10 TURKEY

22	21	36	37.0%	37.811 N	2.019 W	10 G	1.4	8	SPAIN. mbLg 2.8 (MDD).	
22	21	39	03.8%	61.382 N	150.685 W	54	4.9	50	SOUTHERN ALASKA. <AEIC>. ML 2.7 (AEIC).	
22	22	02	41.0%	15.952 S	75.210 W	36 *	4.5	1.1	15	NEAR COAST OF PERU
23	00	02	58.3	19.528 S	68.507 W	147 *	4.5	1.0	15	CHILE-BOLIVIA BORDER REGION
23	00	27	22.3%	4.40 S	130.60 E	33 N	4.6	1.1	6	BANDA SEA
23	01	18	26.8%	23.28 N	122.17 E	10 G	0.5	4	TAIWAN REGION	
23	01	50	03.2%	63.803 N	150.602 W	20		61	CENTRAL ALASKA. <AEIC>. ML 3.6 (AEIC), 4.2 (PMR).	
23	03	46	41.8%	43.909 N	7.778 E	10 G	0.7	9	NEAR SOUTH COAST OF FRANCE. ML 2.0 (GEN).	
23	04	04	20.9%	10.838 N	61.024 W	10 G	0.5	5	TRINIDAD. MD 2.5 (TRN).	
23	04	07	44.1	59.066 N	5.772 E	10 G	0.5	8	SOUTHERN NORWAY. ML 3.1 (NAO). MD 2.7 (BER). Felt.	
23	04	50	24.2%	31.016 N	130.469 E	179	4.6	0.8	17	KYUSHU, JAPAN
23	05	07	55.3%	33.251 S	70.741 W	67 ?		0.4	8	CHILE-ARGENTINA BORDER REGION
23	05	10	29.0%	44.288 N	7.381 E	10 G	0.7	5	NORTHERN ITALY. ML 1.4 (GEN).	
23	05	48	42.6%	33.97 S	179.13 W	83 ?	4.9	0.5	8	SOUTH OF KERMADEC ISLANDS
23	06	31	23.5%	5.26 S	131.77 E	33 N	4.7	1.1	6	BANDA SEA
23	07	36	25.8	36.155 N	68.802 E	33 N	4.9	1.0	50	HINDU KUSH REGION
23	09	32	55.2%	60.468 N	147.449 W	16		50	SOUTHERN ALASKA. <AEIC>. ML 2.5 (AEIC).	
23	09	58	53.8	13.687 S	167.681 E	33 N	5.0	1.0	67	VANUATU ISLANDS
23	10	21	01.7%	39.62 N	27.86 E	10 G	0.6	6	TURKEY	
23	10	26	52.4%	32.52 S	71.01 W	51 ?		0.4	8	NEAR COAST OF CENTRAL CHILE
23	10	32	46.6%	41.077 N	28.678 E	10 G	0.2	5	TURKEY	
23	10	43	07.5	16.908 N	62.251 W	33 N		0.5	9	LEEWARD ISLANDS. ML 3.1 (FDF).
23	11	42	32.6%	13.46 N	92.87 W	33 N	4.5	1.2	5	OFF COAST OF CHIAPAS, MEXICO
23	12	03	09.0%	32.52 S	71.35 W	33 N		0.4	8	NEAR COAST OF CENTRAL CHILE
23	12	11	27.8%	51.28 N	15.93 E	10 G		0.1	4	POLAND
23	12	21	02.3	42.579 N	24.150 E	10 G		1.2	10	BULGARIA
23	12	25	16.2%	41.77 N	15.17 E	5 G		0.1	4	SOUTHERN ITALY
23	14	49	29.2%	3.90 N	77.08 W	55 ?		0.5	6	NEAR WEST COAST OF COLOMBIA
23	14	52	22.1%	40.247 N	23.449 E	10 G		0.9	6	GREECE. MD 2.3 (THE).
23	14	59	44.6	16.562 N	97.797 W	54	4.8 4.3	0.9	44	OAXACA, MEXICO
23	15	32	11.8%	15.372 N	91.844 W	182 *	4.0	1.2	14	MEXICO-GUATEMALA BORDER REGION
23	16	12	15.8%	9.93 S	123.11 E	88 ?	4.0	0.7	6	TIMOR
23	16	16	08.1	9.977 N	126.120 E	32 D	5.2 4.1	1.1	70	MINDANAO, PHILIPPINE ISLANDS
23	16	26	18.7%	4.10 N	76.15 W	33 N		0.5	4	COLOMBIA. MD 2.7 (UVC).
23	16	47	25.9	38.408 N	22.009 E	5 G		1.0	13	GREECE. MD 3.2 (THE). ML 2.8 (ATH).
23	16	56	16.4	41.746 N	23.790 E	10 G		1.1	8	GREECE-BULGARIA BORDER REGION
23	17	51	00.8%	62.037 N	151.323 W	86		35	CENTRAL ALASKA. <AEIC>.	
23	17	59	05.0%	3.63 N	76.50 W	33 N		1.6	4	COLOMBIA. MD 2.3 (UVC).
23	18	18	42.9%	43.44 N	6.16 E	10 G		0.5	10	NEAR SOUTH COAST OF FRANCE
23	18	34	11.2	21.859 S	177.981 W	400 *	4.6	1.1	31	FIJI ISLANDS REGION
23	19	09	40.3%	36.669 N	49.482 E	33 N	4.4	0.6	6	WESTERN IRAN
23	19	12	32.6	44.792 N	22.697 E	10 G		1.1	7	ROMANIA
23	20	04	46.8	1.553 N	77.480 W	142 *		0.5	15	COLOMBIA
23	20	16	24.5	9.209 S	123.526 E	31 D	5.4	1.0	116	TIMOR
23	20	46	34.4%	60.026 N	153.075 W	114		81	SOUTHERN ALASKA. <AEIC>.	
23	21	04	30.4%	19.594 N	108.949 W	10 G	4.0	1.3	22	REVILLA GIGEDO ISLANDS REGION
23	21	19	08.3%	8.67 S	148.50 E	109 ?		0.2	5	EAST PAPUA NEW GUINEA REGION
23	21	44	26.3%	43.711 N	127.107 W	10 G			29	OFF COAST OF OREGON. <SEA>.
23	21	46	17.0%	41.935 N	14.801 E	23 *		0.9	6	SOUTHERN ITALY
23	22	14	20.6	35.905 N	53.250 E	33 N	4.7	1.1	17	IRAN. ML 4.8 (TEH). Felt at Semnan.
23	22	47	20.6	44.368 N	7.307 E	10 G		0.4	11	NORTHERN ITALY. ML 2.0 (GEN). 2.0 (LDG).
23	23	01	30.0%	33.33 S	73.07 W	33 N		0.5	11	OFF COAST OF CENTRAL CHILE
23	23	46	19.0%	33.42 S	72.32 W	24		0.6	10	OFF COAST OF CENTRAL CHILE
23	23	52	57.7%	33.43 S	72.08 W	10 G		0.6	8	OFF COAST OF CENTRAL CHILE
24	00	05	57.8	3.778 N	95.213 E	33 N	5.1	0.8	85	OFF W COAST OF NORTHERN SUMATERA
24	00	38	00.3	40.241 N	25.211 E	10 G		0.5	16	AEGEAN SEA. MD 3.2 (THE).
24	00	56	34.2%	27.05 N	68.55 E	33 N	4.3	1.2	11	PAKISTAN
24	00	57	45.3%	51.58 N	16.40 E	10 G		0.6	6	POLAND. ML 3.1 (VKA).
24	01	03	42.8	40.184 N	25.285 E	10 G		0.6	6	AEGEAN SEA. MD 1.9 (THE).
24	02	41	27.9%	41.287 N	22.428 E	10 G		0.5	6	YUGOSLAVIA. MD 1.9 (THE).
24	02	51	22.7%	12.78 S	118.93 E	33 N	4.3	0.9	6	SOUTH OF SUMBAWA ISLAND
24	02	58	34.6	43.655 N	7.817 E	27		0.5	20	NEAR SOUTH COAST OF FRANCE. ML 2.5 (LDG), 2.4 (GEN).
24	04	05	39.4	38.302 N	20.942 E	10 G		0.9	9	GREECE. MD 3.2 (ATH), 3.1 (THE).
24	04	10	29.4%	41.232 N	22.461 E	10 G		0.1	5	YUGOSLAVIA. MD 2.6 (THE).
24	04	23	29.8%	37.415 N	3.294 W	10 G		0.9	6	SPAIN. mbLg 2.6 (MDD).
24	04	51	01.6%	3.56 N	75.73 W	33 N		0.9	5	COLOMBIA. MD 2.8 (UVC).
24	05	20	58.2%	17.761 S	115.901 W	10 G	4.7 3.9	1.1	35	EASTER ISLAND CORDILLERA
24	06	24	59.6%	59.282 N	153.985 W	119		69	SOUTHERN ALASKA. <AEIC>.	
24	07	02	50.5%	62.14 N	1.68 E	33 N		0.6	9	NORWEGIAN SEA. MD 2.4 (BER).
24	07	17	08.1%	45.64 N	9.92 E	10 G		0.8	4	NORTHERN ITALY
24	07	38	19.5%	10.70 N	62.33 W	5 G		0.8	6	NEAR COAST OF VENEZUELA. MD 3.2 (TRN).
24	07	48	00.5%	32.410 N	115.350 W	6 G			5	CALIFORNIA-MEXICO BORDER REGION. <PAS-P>. ML 3.0 (PAS).
24	08	03	11.2	14.607 S	166.869 E	84 *	5.3	1.1	244	VANUATU ISLANDS
24	08	35	06.8%	6.332 S	81.050 W	33 N	4.7	1.4	10	NEAR COAST OF NORTHERN PERU
24	08	41	31.8%	32.59 S	71.74 W	33 N		0.7	8	NEAR COAST OF CENTRAL CHILE
24	08	52	02.3%	60.374 N	152.861 W	127		45	SOUTHERN ALASKA. <AEIC>.	
24	09	32	41.9	8.075 S	122.440 E	204 *	5.3	1.1	31	FLORES ISLAND REGION
24	10	25	49.4	6.032 S	101.700 E	33 N	4.8	0.9	23	SOUTHWEST OF SUMATERA
24	11	13	19.7	6.065 S	130.368 E	149 D	5.6	1.0	186	BANDA SEA
24	11	15	55.5%	41.905 N	24.500 E	10 G		0.7	7	GREECE-BULGARIA BORDER REGION. MD 2.9 (THE).
24	11	24	51.5%	24.838 N	122.104 E	10 G		0.5	6	TAIWAN REGION
24	12	41	33.4%	14.510 N	119.689 E	50 ?	4.4	1.0	8	LUZON, PHILIPPINE ISLANDS
24	14	10	24.5%	40.18 N	28.79 E	10 G		0.0	4	TURKEY
24	15	23	56.1%	48.983 S	121.608 E	10 G	4.4	1.3	12	SOUTH OF AUSTRALIA
24	16	01	59.5%	16.496 N	61.065 W	33 N		0.4	8	LEEWARD ISLANDS. ML 2.6 (FDF).
24	17	08	07.9%	4.40 N	76.32 W	33 N		0.2	5	COLOMBIA. MD 2.6 (UVC).
24	17	10	08.2%	36.78 N	3.27 W	10 G		0.2	4	STRAIT OF GIBRALTAR. mbLg 2.5 (MDD).
24	17	45	23.3	38.441 N	75.213 E	33 N	4.7	1.3	35	SOUTHERN XINJIANG, CHINA
24	17	51	17.5%	61.766 N	5.337 E	10 G		1.2	11	SOUTHERN NORWAY. MD 2.7 (BER).
24	18	00	33.3%	40.580 N	126.580 W	6	4.0	81	OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 4.1 (BRK).	
24	18	15	30.9%	44.605 N	8.076 E	10 G		0.2	9	NORTHERN ITALY. ML 2.0 (GEN).
24	18	19	52.5%	32.55 S	57.76 E	10 G	4.8	1.0	5	ATLANTIC-INDIAN RISE
24	18	44	10.2%	16.09 N	60.73 W	42 ?		0.2	8	LEEWARD ISLANDS. ML 2.5 (FDF).

24	18 56 39.9?	33.47 S	72.09 W	33 N	1.0	7	OFF COAST OF CENTRAL CHILE
24	19 22 47.2%	43.941 N	12.459 E	10 G	1.1	6	CENTRAL ITALY
24	20 01 44.6?	48 05 N	6.69 E	10 G	0.8	4	FRANCE. ML 2 0 (LDG).
24	20 07 04 8?	44 54 N	129.96 W	10 G	0.3	36	OFF COAST OF OREGON
24	20 10 40.7	41.086 N	22 079 E	10 G	3.2	37	YUGOSLAVIA. MD 3.5 (ATH), 3 3 (THE). ML 3.3 (SKO).
24	21 14 55.4?	5.29 S	146 10 E	44 ?	3.7	5	EAST PAPUA NEW GUINEA REGION
24	21 18 01.0%	46 280 N	2 838 E	10 G	0.8	11	FRANCE. ML 2.5 (LDG).
24	21 18 08 0%	46 272 N	2 856 E	10 G	0.8	10	FRANCE. ML 2 6 (LDG)
24	21 30 15.1	4 063 S	129.168 E	139 *	5.4	1.1	31 BANDA SEA
24	21 54 15.5	41.092 N	22 070 E	5 G	0.3	11	YUGOSLAVIA MD 2 3 (THE).
24	22 10 04 6&	61 645 N	149 524 W	30		47	SOUTHERN ALASKA. <AEIC> ML 2 6 (AEIC).
24	22 26 09 9*	30 020 N	69.840 E	33 N	4.6 3.8	1.5	35 PAKISTAN
24	23 32 46.9*	8 031 N	72 033 W	33 N	4.4	1.5	12 VENEZUELA
25	00 06 41 4	47.655 N	7.318 E	5 G		0.6	19 SWITZERLAND. ML 3 0 (LDG), 2.7 (STR).
25	00 07 17.3?	8.13 S	79 21 W	33 N		1.0	7 NEAR COAST OF NORTHERN PERU
25	00 31 27.1&	62.849 N	149.450 W	81			31 CENTRAL ALASKA. <AEIC>.
25	00 37 23.4%	46.238 N	2 849 E	10 G		0.8	11 FRANCE. ML 2 5 (LDG)
25	01 20 03.5*	13.834 S	168.070 E	33 N	4.7 4.3	1.2	31 VANUATU ISLANDS
25	01 25 04.1%	38.557 N	14.313 E	10 G		0.6	7 SICILY
25	02 00 09.8?	4.47 N	76.80 W	33 N		0.9	5 COLOMBIA
25	02 08 21.7	44.821 N	22.369 E	33 N		0.6	6 ROMANIA
25	03 13 26.3?	40.01 N	16.00 E	10 G		0.2	4 SOUTHERN ITALY
25	03 32 27.5%	16.730 N	98.307 W	33 N		1.5	7 NEAR COAST OF GUERRERO, MEXICO
25	03 42 51.7%	43.859 N	12.400 E	10 G		0.5	5 CENTRAL ITALY
25	03 54 12.6&	61.719 N	150.859 W	60			69 SOUTHERN ALASKA. <AEIC>.
25	04 32 13.6&	60.075 N	152.074 W	65			77 SOUTHERN ALASKA. <AEIC>.
25	04 47 15.2*	33.403 S	72.194 W	10 G		0.4	10 OFF COAST OF CENTRAL CHILE
25	05 00 59.8	5.649 N	94.116 E	44 D	5.2 4.5	0.8	153 NORTHERN SUMATRA
25	05 27 59.1&	62.567 N	148.143 W	52			33 CENTRAL ALASKA. <AEIC> ML 2 5 (AEIC).
25	05 54 06.1?	5.75 N	94.20 E	53 ?	4.1	1.2	8 NORTHERN SUMATRA
25	06 40 05.9	21.354 S	174.174 W	33 N	5.5 5.5	1.1	153 TONGA ISLANDS. Ms 5.5 (BRK). Mo=4.0*10**17 Nm (PPT).
25	06 49 11.7*	6.527 S	154.484 E	56 ?	5.0	0.6	8 SOLOMON ISLANDS
25	06 58 29.9	57.591 N	154.523 W	76	4.4	0.5	62 KODIAK ISLAND REGION
25	07 14 22.0*	22.952 N	121.234 E	10 G		0.9	5 TAIWAN REGION
25	07 15 10.2*	4.636 N	118.256 E	33 N	4.5	1.3	7 KALIMANTAN
25	07 31 45.4%	44.506 N	7.263 E	10 G		0.4	7 NORTHERN ITALY. ML 1 7 (GEN).
25	07 43 00.0%	32.853 S	71.460 W	14		0.3	9 NEAR COAST OF CENTRAL CHILE
25	09 02 11.1	47.129 N	153.716 E	33 N	4.6 4.0	0.8	41 KURIL ISLANDS
25	09 30 46.8%	47.338 N	25.150 E	33 N		1.3	6 ROMANIA
25	09 46 36.7	43.749 N	9.343 E	10 G		0.6	36 CORSICA. ML 3.1 (LDG).
25	10 04 23.7%	42.572 N	13.321 E	10 G		0.9	6 CENTRAL ITALY
25	10 05 01.0%	17.985 N	66.955 W	10 G		1.3	5 PUERTO RICO REGION
25	10 09 04.8	36.446 N	70.773 E	211 *	4.6	125	HINDU KUSH REGION
25	10 49 43.2?	7.08 N	73.30 W	149 ?	4.2	0.9	7 NORTHERN COLOMBIA
25	11 06 20.7?	31.82 S	72.03 W	33 N		0.4	9 OFF COAST OF CENTRAL CHILE
25	11 21 48.9	43.763 N	9.319 E	14		0.6	20 CORSICA. ML 2.7 (LDG).
25	11 31 51.9*	24.953 N	122.517 E	10 G		1.2	5 TAIWAN REGION
25	13 03 58.4	36.812 N	4.418 W	88		0.8	50 STRAIT OF GIBRALTAR
25	14 38 46.5*	22.260 S	68.606 W	109 ?	4.7	1.3	8 NORTHERN CHILE
25	15 15 57.0&	59.823 N	153.473 W	134			47 SOUTHERN ALASKA. <AEIC>.
25	15 33 53.6&	62.139 N	151.016 W	89			63 CENTRAL ALASKA. <AEIC>.
25	15 54 19.0	45.374 N	5.474 E	10 G		1.0	20 FRANCE. ML 2.8 (LDG).
25	16 14 33.0*	5.939 N	94.224 E	48 ?	4.3	1.1	16 NORTHERN SUMATRA
25	16 31 08.7&	56.028 N	149.922 W	10 G	4.1		72 GULF OF ALASKA. <AEIC> ML 4.4 (AEIC).
25	16 33 54.4?	4.01 N	77.27 W	33 N		1.5	4 NEAR WEST COAST OF COLOMBIA. MD 2.5 (UVC).
25	18 02 28.2?	6.24 S	148.12 E	33 N	4.1	1.3	5 NEW BRITAIN REGION
25	18 43 35.3?	33.51 N	71.96 E	10 G	4.3	0.6	7 PAKISTAN
25	19 04 00.1*	38.047 S	70.597 W	132 *	4.7	0.8	22 ARGENTINA
25	19 37 21.5?	51.78 N	16.33 E	10 G		0.8	9 POLAND. ML 3.8 (GRF), 3.3 (VIE).
25	19 41 50.7%	61.801 N	5.393 E	10 G		1.1	8 SOUTHERN NORWAY. MD 2.4 (BER).
25	20 51 57.5*	52.100 N	171.368 W	33 N	4.4 4.1	0.7	22 FOX ISLANDS, ALEUTIAN ISLANDS
25	20 52 57.6?	47.73 N	2.02 W	10 G		0.6	5 FRANCE. ML 2.2 (LDG).
25	21 58 57.8?	4.34 N	76.19 W	33 N		0.6	4 COLOMBIA. MD 2.8 (UVC).
25	23 11 53.1&	62.187 N	151.372 W	89			38 CENTRAL ALASKA. <AEIC>.
26	00 26 59.1	10.639 N	60.796 W	27 *		0.3	8 TRINIDAD. MD 3.3 (TRN).
26	00 43 58.0*	37.378 N	71.181 E	33 N	3.9	0.2	8 AFGHANISTAN-USSR BORDER REGION
26	00 51 52.4	43.721 N	9.344 E	10 G		0.8	20 CORSICA. ML 2.8 (LDG).
26	01 23 11.1?	41.26 N	22.48 E	33 N		1.4	5 YUGOSLAVIA MD 1.8 (THE).
26	02 28 35.9*	20 773 S	68.756 W	33 N		1.4	6 CHILE-BOLIVIA BORDER REGION
26	03 02 57.3*	15.375 N	61.150 W	143 ?		0.4	11 LEeward ISLANDS
26	03 19 59.3	11.060 N	85.461 W	24 D	4.8 4.1	1.0	49 NICARAGUA
26	03 41 20.0	38 609 N	75.839 E	33 N	4.0	0.4	12 SOUTHERN XINJIANG, CHINA
26	04 10 20.0*	2.890 S	79.718 W	149 ?		1.0	8 NEAR COAST OF ECUADOR
26	04 22 50.6?	21.09 S	169.41 E	100 ?	4.9	1.4	43 LOYALTY ISLANDS REGION
26	06 02 25.3	35.970 N	118.425 W	5 G		0.6	15 CENTRAL CALIFORNIA. ML 2.9 (BRK). MD 3.0 (GM).
26	06 39 39.9	1.775 N	124.035 E	327 *	4.9	0.9	28 MINAHASSA PENINSULA
26	07 07 54.1	19.235 S	169.096 E	170	4.9	0.9	29 VANUATU ISLANDS
26	07 38 46.3*	38 445 N	20.041 E	10 G		1.1	8 GREECE. MD 3 0 (ATH), 2.9 (THE).
26	07 41 30.9&	61.833 N	151.084 W	80			47 SOUTHERN ALASKA. <AEIC>.
26	07 55 06.4?	27.79 S	113.36 W	10 G	4.7	1.2	12 EASTER ISLAND REGION
26	08 16 19.3*	17.832 S	115.923 W	10 G	5.0	1.1	37 EASTER ISLAND CORDILLERA
26	09 07 19.7	42.032 N	21.354 E	10 G		0.6	11 YUGOSLAVIA. ML 2.5 (TTG), 2.5 (SKO).
26	09 49 27.4%	15.820 N	60.874 W	22 ?		0.3	12 LEeward ISLANDS. ML 2.9 (FDF).
26	09 58 17.9&	40.453 N	127.350 W	5	3.7		33 OFF COAST OF NORTHERN CALIFORNIA. <BRK>. ML 4.1 (BRK).
26	10 01 59.7	18.959 N	80.877 W	10 G	5.3 5.4	1.1	262 CARIBBEAN SEA. Ms 5.4 (BRK). Felt (V) on Grand Cayman. Felt at Stony Hill, Jamaica.
26	10 18 43.3*	24.087 N	121.597 E	41 *	4.5	1.2	9 TAIWAN
26	10 31 31.9?	0.91 N	124.08 E	33 N	4.9	1.4	6 MINAHASSA PENINSULA
26	10 41 38.0	38.005 N	21.504 E	5 G		0.8	8 GREECE. MD 3.0 (ATH).
26	10 44 28.3?	3.79 N	76.94 W	33 N		0.6	6 COLOMBIA. MD 2.6 (UVC).
26	10 55 09.3?	40.92 N	28.35 E	10 G		1.1	4 TURKEY
26	11 33 59.6&	60.261 N	152.365 W	91			48 SOUTHERN ALASKA. <AEIC>.
26	11 49 15.4*	42.162 N	100.533 W	5 G		0.8	7 NEBRASKA. mbLg 3.4 (GS), 3.4 (TUL). Felt (IV) at Purdum

and Thedford. Felt in parts of Blaine, Brown, Cherry, Rock and Thomas Counties.

26	12 40 03 6%	40.185 N	29 372 E	10 G	0.5	5	TURKEY
26	12 41 09 47	4.27 N	76.92 W	33 N	1.2	5	COLOMBIA. MD 2.9 (UVC).
26	12 51 16 07	30.44 N	132.12 E	33 N	1.3	5	SOUTHEAST OF SHIKOKU, JAPAN
26	12 58 07 17	62.75 N	5.41 E	10 G	0.9	6	SOUTHERN NORWAY. MD 2.3 (BER).
26	13 18 49 6%	40.786 N	30.206 E	10 G	0.3	6	TURKEY
26	13 21 37 6%	40.580 N	122 272 W	18		8	NORTHERN CALIFORNIA <BRK>. ML 2.9 (BRK). Felt in the Redding area.
26	13 35 38 4*	32.038 S	69.811 W	135 *	0.4	11	MENDOZA PROVINCE, ARGENTINA
26	13 39 29.37	6.93 S	147.76 E	64 *	0.6	7	EAST PAPUA NEW GUINEA REGION
o 26	14 59 44 9	42 100 N	144 635 E	29 G	5 8 5.7	0.9	440 HOKKAIDO, JAPAN REGION. Mo=3.0*10**17 Nm (PPT). Depth from broadband displacement seismograms.
26	15 22 06 07	3.31 N	79.82 W	10 G	0.4	7	SOUTH OF PANAMA
26	16 05 46 6	14 969 N	60.755 W	94 *	0.2	16	WINDWARD ISLANDS. MD 3.8 (TRN). Felt (II) on Martinique.
26	16 14 05 0*	1.950 S	78 073 W	162	0.7	13	ECUADOR
26	18 04 23 7?	45.53 N	6 91 E	10 G	0.6	4	FRANCE. ML 1.9 (GEN).
26	18 11 36 9	45.423 N	3.626 E	10 G	1.1	15	FRANCE. ML 2.5 (LDG).
26	18 23 42.9*	45.069 N	21.165 E	33 N	0.9	5	ROMANIA. MG 2.9 (BEO).
26	18 57 03.4*	45.367 N	3.789 E	10 G	0.5	17	FRANCE. ML 1.9 (LDG).
o 26	20 42 31.8	6.937 N	94.531 E	26 D	5.4 5.6	0.9	247 NICOBAR ISLANDS REGION
o 26	20 54 23.0	6.882 N	94.609 E	22 D	5.8 5.8	1.1	319 NICOBAR ISLANDS REGION
26	21 15 58 4%	59.971 N	153.836 W	171		71	SOUTHERN ALASKA. <AEIC>.
26	21 23 54 1*	6.446 S	103 617 E	33 N	4.8	1.1	15 SOUTHWEST OF SUMATERA
26	21 52 45 0*	29.856 S	70 643 W	10 G	1.0	8	CENTRAL CHILE
26	21 55 10 9*	6.704 N	94 806 E	33 N	4.3	1.3	11 NICOBAR ISLANDS REGION
o 26	21 56 13 6	6.669 N	94.661 E	33 N	5.0 4.7	0.9	82 NICOBAR ISLANDS REGION
26	22 52 36 8	14.601 S	167 274 E	232 *	5 0	1.0	102 VANUATU ISLANDS
26	23 14 56 8	38.402 N	21 004 E	9	3.6	1.0	30 GREECE. ML 3.4 (ATH).
26	23 47 56 5%	38.884 N	15.941 E	5 G		0.6	9 SICILY
26	23 57 22 2?	6.05 N	94.36 E	33 N	4.4	1.0	12 NICOBAR ISLANDS REGION
27	01 05 12 1*	45.221 N	7.008 E	10 G		0.4	5 NORTHERN ITALY. ML 1.8 (GEN).
27	01 10 35 1?	3.83 N	76.19 W	97 ?		0.6	6 COLOMBIA. MD 2.6 (UVC).
27	03 20 00 5%	43 143 N	10.996 E	10 G		0.2	7 CENTRAL ITALY
27	04 14 30 4%	37.298 N	122 417 W	12		11	CENTRAL CALIFORNIA. <BRK>. ML 2.5 (BRK).
27	04 16 16 8*	20.855 S	68 775 W	123 *	5.0	0.8	12 CHILE-BOLIVIA BORDER REGION
27	05 14 32 3?	34 25 N	92.16 E	33 N	3.4	0.7	7 QINGHAI PROVINCE, CHINA
27	05 25 13 6?	29.11 S	72.71 W	33 N		0.6	7 OFF COAST OF CENTRAL CHILE
27	05 59 36 1*	8.603 S	119.853 E	33 N	4.5	1.3	7 FLORES ISLAND REGION
27	06 05 58 5?	42.51 N	8 51 W	5 G		0.1	4 SPAIN. mbLg 2.9 (MDD).
27	07 56 54 5?	10 38 N	61.84 W	33 N		0.9	5 TRINIDAD. MD 3.3 (TRN).
27	08 31 37 5?	1 94 S	79 86 W	101 ?	4.1	0.5	9 ECUADOR
27	08 32 53 1?	44.99 N	9.71 E	5 G		0.6	4 NORTHERN ITALY
27	08 35 52 3?	32.56 S	71.72 W	10 G		0.2	6 NEAR COAST OF CENTRAL CHILE
27	08 39 31.7*	55.767 S	27.013 W	33 N	5.2	1.3	15 SOUTH SANDWICH ISLANDS REGION
o 27	08 50 57.4	18.037 S	178.485 W	599 D	5.2	0.9	220 FIJI ISLANDS REGION
27	09 42 11.1%	41.101 N	28.437 E	10 G		0.3	6 TURKEY
27	10 31 14.6*	16.337 S	73.235 W	87 *	4.6	1.0	14 NEAR COAST OF PERU. Felt (II) at Arequipa.
27	11 39 02 2*	9.224 N	125.423 E	33 N		1.5	5 MINDANAO, PHILIPPINE ISLANDS
o 27	11 46 22 3	16.278 S	73.278 W	74 D	5.3	1.1	143 NEAR COAST OF PERU. Felt (III) at Arequipa.
27	11 49 23.6?	16.03 N	60.48 W	30		0.1	9 LEEWARD ISLANDS. ML 3.6 (FDF).
27	11 57 04.9	45.482 N	21.112 E	33 N		1.3	13 ROMANIA
o 27	11 58 22.1	21.657 S	68.506 W	116 D	5.1	1.1	127 CHILE-BOLIVIA BORDER REGION
27	13 07 45 2?	4.10 N	76 77 W	33 N		0.6	4 COLOMBIA. MD 2.3 (UVC).
27	13 09 20.5?	23.78 N	121.74 E	10 G		0.1	4 TAIWAN
27	14 51 47 9?	3.64 S	144.90 E	59 ?	4.6	1.1	12 NEAR N COAST OF PAPUA NEW GUINEA
27	16 42 01 9%	44.296 N	8.025 E	10 G		0.3	8 NORTHERN ITALY. ML 2.0 (GEN).
27	16 55 13.8%	34.112 S	71.145 W	33 N		0.5	5 NEAR COAST OF CENTRAL CHILE
27	17 20 36 4%	64.797 N	147.483 W	13		12	CENTRAL ALASKA. <AEIC>. ML 2.6 (AEIC).
27	17 50 04 6	44.417 N	7 280 E	17		0.5	30 NORTHERN ITALY. ML 2.9 (LDG), 2.7 (GEN).
27	19 07 49 3?	48.17 S	164.97 E	33 N	4.1	1.2	16 OFF W. COAST OF S. ISLAND, N.Z.
27	19 13 23 8%	64.398 N	148.089 W	9		43	CENTRAL ALASKA. <AEIC>. ML 3.1 (AEIC).
27	19 19 30.7%	40 832 N	27.444 E	10 G		0.1	6 TURKEY
27	19 38 51 4%	60.163 N	153.357 W	147		43	SOUTHERN ALASKA. <AEIC>.
27	19 49 27.7?	29.37 S	178.26 W	201 ?	4.5	1.5	17 KERMADec ISLANDS
27	20 07 23 5%	44.463 N	6.878 E	10 G		0.2	6 FRANCE. ML 2.0 (GEN).
27	21 06 19 0?	10.46 N	61.77 W	10 G		0.1	4 TRINIDAD. MD 3.3 (TRN).
27	21 11 51.5	47 538 N	6.182 E	10 G		1.2	17 FRANCE. ML 2.8 (LDG).
27	22 03 26 3	38.652 N	14.622 E	307	3.7	0.8	38 SICILY
27	22 05 48 2?	3.76 N	76.94 W	33 N		0.1	4 COLOMBIA. MD 2.5 (UVC).
27	22 36 12 7%	40.470 N	23.621 E	10 G		0.5	8 GREECE. MD 2.1 (THE)
27	23 39 16 3?	51.45 N	172.54 W	33 N	4.4	1.1	19 ANDREANOF ISLANDS, ALEUTIAN IS.
27	23 48 50 4%	39 424 N	22 776 E	10 G		0.4	6 GREECE. MD 2.1 (THE).
28	00 03 35 3	44 396 N	15.366 E	10		0.9	28 YUGOSLAVIA. ML 3.5 (VKA), 3.2 (KBA). MD 3.3 (TRI).
28	00 41 42 1*	20.590 S	68.081 W	163 *		1.1	9 CHILE-BOLIVIA BORDER REGION
28	00 51 53 2	24 671 N	62.708 E	33 N	4.5	0.7	29 NEAR COAST OF PAKISTAN
28	01 21 29 8%	41 477 N	14 354 E	10 G		1.2	9 SOUTHERN ITALY
o 28	01 29 02.0	35.338 N	133.208 E	13 D	5.2 5.3	1.2	82 SOUTHERN HONSHU, JAPAN. Felt (IV JMA) at Matsu and Yanaga; (III JMA) at Kachi and Okayama. Also felt (III JMA) at Takamatsu, Shikoku. Also felt at Iwakuni, Honshu.
28	02 03 00 3?	4.76 N	77.15 W	33 N		0.6	6 NEAR WEST COAST OF COLOMBIA. MD 3.1 (UVC).
28	02 38 39 1%	37 140 N	3.683 W	10 G		1.0	8 SPAIN. mbLg 2.9 (MDD).
28	04 28 55 6*	30.182 S	69.233 W	10 G		0.4	5 CHILE-ARGENTINA BORDER REGION
28	04 50 05.6*	10.859 N	60.556 W	33 N	4.1	1.0	9 TRINIDAD. MD 4.1 (TRN).
28	05 10 29.7	40.341 N	25.877 E	10 G		0.6	18 AEGEAN SEA. MD 3.2 (THE).
28	05 37 39.7?	31.67 S	70.05 W	150 ?		0.4	9 CHILE-ARGENTINA BORDER REGION
28	05 49 31.3%	41.121 N	24.525 E	10 G		1.0	5 GREECE-BULGARIA BORDER REGION. MD 2.7 (THE).
28	06 08 25.1?	36.17 N	21.91 E	33 N		1.1	16 SOUTHERN GREECE. ML 3.3 (ATH).
o 28	06 47 44.0	21.191 S	170.365 E	21 D	5.3 4.7	1.1	54 LOYALTY ISLANDS REGION
28	08 33 54.7*	21.220 S	67.439 W	190 G		1.0	6 CHILE-BOLIVIA BORDER REGION
28	09 16 06.7%	40.638 N	29.269 E	13		0.3	9 TURKEY

28	10 21 48 9*	38.945 N	23.559 E	10 G		0.7	5	GREECE. ML 2.8 (ATH). MD 2.7 (THE).
28	10 34 09.5*	57.834 N	142.993 W	10 G		15	15	GULF OF ALASKA. <AEIC>. ML 2.8 (AEIC).
28	10 35 38 8	38.837 N	23.442 E	10 G		0.3	12	GREECE. ML 3.2 (ATH). MD 3.1 (THE).
28	11 07 54 1*	60.025 N	152.905 W	118		66		SOUTHERN ALASKA. <AEIC>
28	11 52 27 3*	41.25 N	28.55 E	10 G		0.8	4	TURKEY
28	12 08 47.5*	60.207 N	153.102 W	138		82		SOUTHERN ALASKA. <AEIC>
28	12 18 05.0*	14.789 N	120.382 E	69 *	4.2	0.2	8	LUZON, PHILIPPINE ISLANDS. Felt (V) in Zambales Province and (I) in Pampanga Province.
28	13 37 53 9*	82.68 N	8.79 W	10 G	4.4	0.6	16	NORTH OF SVALBARD
28	14 22 46 4*	40.502 N	29.072 E	10 G		0.4	7	TURKEY
28	15 43 38 3*	41.268 N	28.754 E	10 G		0.7	6	TURKEY
28	15 17 24 2*	21.74 N	143.14 E	340 ?	3.9	1.0	7	MARIANA ISLANDS REGION
28	16 19 51 8*	58.471 N	142.752 W	10 G		29		GULF OF ALASKA. <AEIC>. ML 2.7 (AEIC).
28	17 39 45 0*	36.11 N	22.33 E	33 N		1.1	7	SOUTHERN GREECE
28	17 56 58 4*	51.90 N	174.28 W	33 N		0.7	8	ANDREANOF ISLANDS, ALEUTIAN IS.
28	18 30 03 6*	40.213 N	124.480 W	1		6		NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.4 (BRK).
28	19 05 09 1	19.408 N	102.717 W	48	4.3	0.8	16	M. CHOACAN, MEXICO
28	20 21 21 5*	46.46 N	155.21 E	33 N	4.1	1.0	8	KURIL ISLANDS REGION
28	20 36 40.1	26.374 S	27.365 E	5 G		1.2	16	REPUBLIC OF SOUTH AFRICA. mbLg 3.6 (BUL).
28	20 50 05.1	40.520 N	21.587 E	10 G		0.6	11	GREECE. MD 2.8 (THE).
28	21 11 39.5*	43.946 N	11.570 E	10 G		0.9	5	CENTRAL ITALY
28	21 27 19.1*	3.27 S	152.63 E	101 ?	4.0	0.8	5	NEW IRELAND REGION
28	21 32 35.0	22.230 S	179.639 E	599	5.5	0.9	241	SOUTH OF FIJI ISLANDS
28	21 53 14 0	40.282 N	142.870 E	41	4.8	1.0	60	NEAR EAST COAST OF HONSHU, JAPAN
28	22 22 38.3*	39.020 N	15.628 E	10 G		0.7	7	SOUTHERN ITALY
28	22 24 45.6*	37.177 N	70.875 E	33 N	4.3	1.3	10	AFGHANISTAN-USSR BORDER REGION
28	22 33 31.5*	39.002 N	15.661 E	10 G		0.8	7	SOUTHERN ITALY
28	23 10 16.4	40.251 N	143.068 E	33 N	4.0	1.2	17	OFF EAST COAST OF HONSHU, JAPAN
28	23 22 26.4*	15.585 S	173.747 W	33 N	5.4	1.4	19	TONGA ISLANDS
29	00 42 47 5*	38.936 N	15.799 E	33 N		0.9	9	SICILY
29	00 48 44 1*	38.994 N	15.635 E	10 G		0.4	5	SICILY
29	00 49 47 1*	39.153 N	15.724 E	10 G		0.9	7	SOUTHERN ITALY
29	00 58 37.7	44.263 N	10.137 E	10 G		0.9	30	NORTHERN ITALY. ML 2.7 (LDG).
29	01 00 36.3	17.823 S	115.975 W	10 G	5.3 4.8	0.9	90	EASTER ISLAND CORDILLERA. Mo=1.0*10**18 Nm (PPT)
29	01 17 01.0*	40.72 N	29.18 E	10 G		0.1	4	TURKEY
29	01 33 16 9	42.848 N	18.837 E	10 G		0.6	9	YUGOSLAVIA. ML 2.3 (TTG).
29	01 33 50.1	42.795 N	18.759 E	10 G		1.1	38	YUGOSLAVIA. MD 3.2 (TTG).
29	01 45 21.0*	38.379 S	93.640 W	10 G	4.7 4.5	1.2	11	WEST CHILE RISE
29	01 54 36.1*	40.467 N	23.547 E	10 G		0.7	7	GREECE. MD 2.2 (THE).
29	02 07 15.8*	40.776 N	23.414 E	10 G		0.3	6	GREECE. MD 1.7 (THE).
29	02 23 12.5*	40.109 N	152.860 W	98		52		SOUTHERN ALASKA. <AEIC>
29	03 21 03.4*	44.253 N	11.339 E	12 *		0.7	9	NORTHERN ITALY
29	04 34 52.9*	3.99 N	76.99 W	33 N		0.6	6	COLOMBIA
29	04 36 23 9*	60.576 N	147.876 W	14		50		SOUTHERN ALASKA. <AEIC>. ML 2.5 (AEIC).
29	05 21 11.6	20.710 S	177.749 W	376 D	5.4	0.9	279	FIJI ISLANDS REGION. mb 5.5 (BRK).
29	05 27 28.7*	39.018 N	15.523 E	10 G		0.7	9	SOUTHERN ITALY
29	05 36 17.5*	3.98 N	77.00 W	33 N		0.2	5	NEAR WEST COAST OF COLOMBIA
29	06 01 28 3*	33.585 S	71.683 W	33 N		0.4	10	NEAR COAST OF CENTRAL CHILE
29	07 40 39.6*	24.04 N	121.57 E	21 ?		0.3	5	TAIWAN
29	07 58 03.9	45.316 N	20.927 E	10 G		1.1	9	YUGOSLAVIA. MG 3.4 (BEO).
29	08 16 58.9*	38.37 N	28.74 E	10 G		0.1	4	TURKEY
29	08 21 15.2	20.704 S	177.747 W	379 D	5.2	1.0	94	FIJI ISLANDS REGION
29	08 44 40.9	3.161 S	139.709 E	33 N	5.1 4.7	1.2	58	WEST IRIAN
29	09 07 35.0*	59.671 N	152.407 W	72		42		SOUTHERN ALASKA. <AEIC>
29	09 18 07.4*	60.330 N	152.989 W	149		65		SOUTHERN ALASKA. <AEIC>
29	09 24 21.9*	39.10 N	27.63 E	10 G		0.8	4	TURKEY
29	09 46 21.0*	40.967 N	22.374 E	10 G		0.4	8	GREECE. MD 2.2 (THE). ML 1.9 (SKO).
29	10 33 14.3*	39.547 N	27.348 E	10 G		0.5	9	TURKEY
29	11 06 47.3*	42.995 N	17.827 E	10 G		1.3	10	ADRIATIC SEA. ML 2.7 (TTG).
29	11 18 47 6*	33.10 S	70.44 W	92 ?		0.6	7	CHILE-ARGENTINA BORDER REGION
29	12 53 31 1*	41.456 N	25.343 E	10 G		0.5	6	GREECE-BULGARIA BORDER REGION. MD 2.5 (THE).
29	13 36 15.1*	58.41 N	10.49 E	10 G		0.1	4	SWEDEN. MD 2.6 (BER).
29	13 54 25.5*	44.431 N	7.432 E	5 G		0.6	14	NORTHERN ITALY. ML 2.5 (LDG). 2.1 (GEN).
29	14 08 46.3	17.488 N	145.926 E	193 *	4.8	1.0	72	MARIANA ISLANDS
29	14 44 03.4*	21.84 S	178.96 W	610 *	4.4	1.3	9	FIJI ISLANDS REGION
29	14 47 05 2*	16.61 N	62.02 W	214 ?		0.3	12	LEEWARD ISLANDS
29	16 33 50.2*	6.432 S	12.970 W	10 G	4.7 4.6	1.1	26	ASCENSION ISLAND REGION
29	16 35 48.1*	33.16 S	70.63 W	70 G		0.3	5	CHILE-ARGENTINA BORDER REGION
29	16 59 09.6*	3.274 S	139.860 E	28 *	4.5	0.9	10	WEST IRIAN
29	16 59 49.0	6.988 S	12.677 W	10 G	5.0 4.8	1.0	75	ASCENSION ISLAND REGION
29	18 38 43.6	22.941 S	66.072 W	262 *		0.9	13	JUJUY PROVINCE, ARGENTINA
29	19 31 21.1*	10.77 N	62.31 W	33 N		0.5	8	NEAR COAST OF VENEZUELA. MD 3.6 (TRN).
29	19 34 59.7*	17.117 S	66.652 W	285 *	4.0	1.1	7	BOLIVIA
29	20 07 39.9*	39.967 N	20.708 E	10 G		0.5	6	GREECE-ALBANIA BORDER REGION. MD 2.7 (THE).
29	20 33 00.5*	40.640 N	121.481 W	16		5		NORTHERN CALIFORNIA <GM-P> MD 3.1 (GM).
29	20 44 20.0*	44.594 N	6.737 E	10 G		0.2	6	FRANCE. ML 2.0 (GEN)
29	21 05 02.9*	47.37 N	7.25 E	10 G		0.1	4	SWITZERLAND. ML 3.2 (LDG).
29	23 55 55 7	42.612 N	0.217 E	10		1.0	36	PYRENEES. mbLg 3.2 (MDD).
30	00 16 21.2	4.349 S	81.541 W	23 D	5.2 4.6	0.9	117	NEAR COAST OF NORTHERN PERU
30	00 47 42.6*	42.61 N	0.32 E	10 G		1.2	7	PYRENEES
30	01 15 43.1*	44.33 N	7.38 E	10 G		0.1	4	NORTHERN ITALY. ML 1.5 (GEN).
30	01 16 34.6*	5.963 S	151.115 E	33 N	4.9	1.1	6	NEW BRITAIN REGION
30	01 29 27.8	3.351 S	134.441 E	33 N	5.4 4.3	1.1	74	WEST IRIAN REGION
30	02 07 22.9*	4.102 N	76.050 W	33 N		0.7	7	COLOMBIA
30	02 36 16 7	40.127 N	20.834 E	33 N		1.1	12	GREECE-ALBANIA BORDER REGION. MD 3.2 (ATH). 2.9 (THE).
30	03 19 00.8*	51.548 N	6.747 E	10 G		0.6	6	GERMANY
30	04 03 48.8*	13.48 N	93.32 E	33 N	4.7	1.0	5	ANDAMAN ISLANDS REGION
30	04 38 30.4*	37.983 N	21.025 E	10 G		1.1	11	SOUTHERN GREECE. ML 3.4 (ATH).
30	06 45 29.2*	60.369 N	5.275 E	10 G		0.5	5	SOUTHERN NORWAY. MD 1.2 (BER).
30	07 13 32.1	39.919 N	20.754 E	10 G	3.6	1.1	19	GREECE-ALBANIA BORDER REGION. ML 3.8 (ATH). MD 3.6 (THE).
30	07 20 26.2*	31.587 S	69.534 W	13 *		1.4	6	SAN JUAN PROVINCE, ARGENTINA
30	07 52 31 7	41.296 N	22.447 E	10 G		0.7	13	YUGOSLAVIA. MD 2.6 (THE). ML 2.5 (SKO).

30	09 01 30.07	39.11 N	27.60 E	10 G		0.4	4	TURKEY
30	09 59 21.2	0.148 S	124.267 E	90 D	4.9	1.0	42	MOLUCCA SEA
30	10 24 33.5	44.290 N	8.427 E	5 G		0.3	13	NORTHERN ITALY. ML 2.6 (GEN).
30	11 06 05.3*	12.212 N	142.167 E	95 *	5.1	0.8	23	SOUTH OF MARIANA ISLANDS
30	12 16 36.1*	42.562 N	23.927 E	10 G		0.6	7	BULGARIA. MD 2.9 (THE).
30	13 00 21.2*	5.784 S	147.349 E	138 ?	4.8	0.4	6	EAST PAPUA NEW GUINEA REGION
30	13 08 37.5&	32.850 N	118.320 W	6 G			9	OFF COAST OF CALIFORNIA. <PAS-P>. ML 3.2 (PAS).
30	13 20 56.4*	5.465 N	94.048 E	33 N	4.5	1.1	18	NORTHERN SUMATERA
30	14 04 15.9*	20.137 S	119.777 E	10 G	4.3	1.0	5	WESTERN AUSTRALIA
30	14 32 12.8*	34.449 N	97.309 E	33 N	4.3	1.0	7	QINGHAI PROVINCE, CHINA
30	15 38 06.1?	32.03 S	179.58 E	373 *	4.5	1.3	31	SOUTH OF KERMADEC ISLANDS
30	15 38 07.5&	62.433 N	148.447 W	12			43	CENTRAL ALASKA. <AEIC>. ML 2.5 (AEIC).
30	15 56 50.4	43.982 N	7.136 E	10 G		0.3	9	NEAR SOUTH COAST OF FRANCE. ML 2.7 (GEN).
30	16 01 29.1	44.876 N	12.670 E	10 G		0.7	7	NORTHERN ITALY. MD 3.0 (TRI).
30	16 18 47.1	39.959 N	23.868 E	5 G		1.0	10	AEGEAN SEA. MD 2.8 (THE).
30	17 00 32.9	39.931 N	23.907 E	10 G		0.7	11	AEGEAN SEA. MD 3.0 (THE).
30	17 01 01.1?	31.39 S	69.51 W	171 ?		0.5	11	SAN JUAN PROVINCE, ARGENTINA
30	17 17 01.0	39.969 N	20.668 E	6	4.0	1.1	50	GREECE-ALBANIA BORDER REGION. ML 3.7 (TTG). MD 4.0 (ATH). 3.6 (IGT).
30	17 23 06.3	40.007 N	20.612 E	5 G	3.3	1.1	18	GREECE-ALBANIA BORDER REGION. MD 3.4 (ATH). 3.2 (THE).
30	17 39 05.9%	39.785 N	30.237 E	10 G		0.4	6	TURKEY
30	19 24 30.0	36.843 N	121.656 W	5 G		1.1	11	CENTRAL CALIFORNIA. MD 2.5 (GM).
30	20 45 03.5?	4.29 N	126.17 E	154 ?	4.2	0.8	11	TALAUD ISLANDS
30	22 36 23.6?	39.85 N	24.02 E	5 G		0.5	4	AEGEAN SEA
30	22 47 29.0?	3.94 N	76.99 W	33 N		0.7	4	COLOMBIA. MD 2.4 (UVC).
31	00 57 43.0&	40.277 N	124.390 W	10			5	NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.4 (BRK). MD 2.8 (GM).
31	01 18 22.3*	7.456 S	128.838 E	149 *	4.6	1.2	12	BANDA SEA
31	01 31 16.2	10.242 S	75.362 W	33 N	4.7	0.8	14	PERU
31	02 32 26.1%	36.450 N	5.475 W	5 G		0.5	6	STRAIT OF GIBRALTAR. mblg 3.0 (MDD).
31	03 38 21.9	32.309 S	71.964 W	33 N	4.5	1.1	18	NEAR COAST OF CENTRAL CHILE
31	03 54 04.1*	37.501 N	69.350 E	33 N	4.1	0.6	7	AFGHANISTAN-USSR BORDER REGION
31	04 03 13.4	39.692 N	77.754 E	33 N	4.7	0.9	16	SOUTHERN XINJIANG, CHINA
31	04 39 41.4?	43.73 N	127.00 W	10 G		0.4	30	OFF COAST OF OREGON
31	05 12 47.2?	3.90 N	76.26 W	99 ?		0.5	7	COLOMBIA. MD 3.9 (UVC).
31	07 22 27.5?	4.16 N	77.11 W	33 N		0.9	7	NEAR WEST COAST OF COLOMBIA. MD 3.7 (UVC).
31	07 42 03.8%	44.359 N	2.259 E	5 G		1.3	8	FRANCE. ML 2.6 (LDG).
31	07 59 47.6?	3.87 N	76.22 W	114 ?		0.5	7	COLOMBIA. MD 3.8 (UVC).
31	08 57 28.6?	45.53 N	21.48 E	33 N		1.4	5	ROMANIA
31	09 45 12.0	41.133 N	22.029 E	10 G		1.1	7	YUGOSLAVIA. MD 2.5 (THE).
31	10 29 20.0%	44.914 N	3.107 E	5 G		0.6	8	FRANCE. ML 2.3 (LDG).
31	10 57 43.5?	3.85 N	76.97 W	33 N		0.5	5	COLOMBIA. MD 2.5 (UVC).
31	11 27 38.4%	15.480 N	60.691 W	19 *		0.3	11	LEEWARD ISLANDS. ML 2.8 (FDF).
31	12 45 37.0?	4.14 N	76.16 W	33 N		0.8	5	COLOMBIA. MD 3.0 (UVC).
31	12 48 16.4&	63.092 N	150.908 W	124			62	CENTRAL ALASKA. <AEIC>.
31	12 51 37.6%	45.954 N	2.748 E	10 G		0.7	12	FRANCE. ML 2.5 (LDG).
31	12 52 00.5	1.209 N	126.795 E	73 *	4.7	0.5	16	MOLUCCA PASSAGE
31	13 45 16.2&	37.797 N	122.593 W	3			10	CENTRAL CALIFORNIA. <BRK>. ML 2.6 (BRK). Mo=1.5+10**13 Nm (BRK).
31	14 16 22.0	37.531 N	27.041 E	10 G		0.9	13	TURKEY
31	14 25 23.8?	38.59 N	15.69 E	10 G		1.7	4	SICILY
31	14 42 47.8%	37.725 N	14.992 E	10 G		0.3	5	SICILY
31	14 46 14.5*	38.788 N	25.589 E	10 G		0.2	5	AEGEAN SEA. ML 3.1 (ATH).
31	16 43 46.7	22.425 S	68.311 W	117 D	5.0	1.0	70	NORTHERN CHILE. Felt in El Loo Department.
31	19 18 17.6%	16.454 N	60.955 W	33 N		0.2	7	LEEWARD ISLANDS. ML 2.6 (FDF).
31	19 37 07.4%	39.750 N	24.171 E	10 G		0.4	5	AEGEAN SEA
31	19 38 29.6*	29.960 S	72.233 W	43 *	4.9	1.1	22	OFF COAST OF CENTRAL CHILE
31	20 21 48.7*	22.191 S	170.178 E	33 N	4.9 4.9	1.5	43	LOYALTY ISLANDS REGION
31	20 42 20.0%	16.101 N	61.187 W	10 G		0.7	5	LEEWARD ISLANDS
31	20 46 25.2?	46.33 N	152.13 E	151 ?	4.2	0.9	11	KURIL ISLANDS
31	21 16 37.5	47.269 N	11.717 E	10 G		0.9	13	AUSTRIA. ML 2.1 (KBA).
31	21 19 56.8?	2.27 S	128.15 E	33 N	5.1	0.6	5	CERAM SEA
31	21 27 59.4	6.590 S	154.977 E	96 *	4.3	0.5	14	SOLOMON ISLANDS
31	22 02 28.6%	40.494 N	26.386 E	10 G		0.2	5	TURKEY
31	22 25 50.4*	22.267 S	170.226 E	33 N	4.2	1.1	16	LOYALTY ISLANDS REGION
31	22 39 52.3%	3.616 N	75.823 W	33 N		0.5	7	COLOMBIA. MD 3.3 (UVC).
31	22 43 18.4	45.471 N	26.761 E	33 N	2.7	1.2	11	ROMANIA
31	23 01 17.3*	14.848 S	167.018 E	85 *	4.5	1.4	41	VANUATU ISLANDS
31	23 03 47.2?	5.27 N	95.46 E	110 ?	4.3	0.4	7	NORTHERN SUMATERA
31	23 17 02.5*	26.999 S	26.417 E	5 G		1.3	6	REPUBLIC OF SOUTH AFRICA. mblg 3.5 (BUL).
31	23 33 22.7?	45.57 N	27.65 E	33 N		1.2	4	ROMANIA

A D D I T I O N A L S O U R C E P A R A M E T E R S

01 03 22 42 12 27.073S 176 313W 13km
5.5mb (14 obs.) 4.9Msz (3 obs.)
KERMADEC ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 23C
Centroid Location:
Origin Time 03:22:48.3 0 5
Lat 26.88S 0 06 Lon 175.67W 0 07
Dep 15.0 FIX Half-duration 1 7
Principal Axes:
Scale 10**16 Nm
T Val= 11.56 Plg=65 Azm= 11
N -2.33 25 190
P -9.22 0 280
Best Double Couple: Mo=1.0*10**17
NP1: Strike= 33 Dip=50 Slip= 124
NP2: 167 50 57

01 05 22 19.71 17.082S 174.400E 13km
5.1mb (10 obs.) 5.0Msz (7 obs.)
FIJI ISLANDS REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 25C
Centroid Location:
Origin Time 05:22:23.5 0 4
Lat 16.83S 0 05 Lon 174.37E 0 04
Dep 15.0 FIX Half-duration 2 4
Principal Axes:
Scale 10**17 Nm
T Val= 4.29 Plg=23 Azm=148
N -1.47 60 10
P -2.82 18 246
Best Double Couple: Mo=3.5*10**17
NP1: Strike=288 Dip=60 Slip= 4
NP2: 196 86 150

03 00 49 03.20 40.393N 125 423W 5km
4.9mb (38 obs.) 4.9Msz (8 obs.)
OFF COAST OF NORTHERN CALIFORNIA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 12S, 21C
Centroid Location:
Origin Time 00:49:18.4 0 8
Lat 41.28N 0 10 Lon 125.64W 0 11
Dep 15.0 FIX Half-duration 1 7
Principal Axes:
Scale 10**16 Nm
T Val= 6.33 Plg= 0 Azm=222
N 1.50 90 180
P -7.83 0 132
Best Double Couple: Mo=7.1*10**16
NP1: Strike=267 Dip=90 Slip=-180
NP2: 357 90 0

03 04 56 00.42 1.177N 85.263W 24km
4.7mb (13 obs.) 4.7Msz (3 obs.)
OFF COAST OF ECUADOR
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 31C
Centroid Location:
Origin Time 04:55:58.0 0 5
Lat 0.88N FIX; Lon 84.97W FIX
Dep 33.0 FIX Half-duration 2 2
Principal Axes:
Scale 10**17 Nm
T Val= 1.96 Plg=11 Azm=315
N -0.40 77 102
P -1.56 7 224
Best Double Couple: Mo=1.8*10**17
NP1: Strike=359 Dip=77 Slip= 177
NP2: 90 87 13

03 08 33 17 19 29.330N 129 081E 17km
5.5mb (53 obs.) 5.7Msz (6 obs.)
RYUKYU ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 39C
Centroid Location:
Origin Time 08:33:19.3 0 3
Lat 29.37N 0 03 Lon 128.54E 0 05
Dep 24.3 3.8 Half-duration 2 6
Principal Axes:
Scale 10**17 Nm
T Val= 3.88 Plg= 4 Azm=204
N -0.15 86 51

P -3.74 2 294
Best Double Couple: Mo=3.8*10**17
NP1: Strike=339 Dip=86 Slip= 1
NP2: 249 89 176

04 07 45 30.94 0.912S 80.916W 21km
5.4mb (66 obs.) 4.8Msz (10 obs.)
NEAR COAST OF ECUADOR
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 24C
Centroid Location:
Origin Time 07:45:34.6 0 7
Lat 0.86S FIX; Lon 80.96W FIX
Dep 15.6 FIX Half-duration 1 7
Principal Axes:
Scale 10**17 Nm
T Val= 1.91 Plg=55 Azm= 59
N -0.37 13 167
P -1.54 32 265
Best Double Couple: Mo=1.7*10**17
NP1: Strike= 33 Dip=17 Slip= 137
NP2: 164 78 77

05 03 21 17.27 17.886S 115.941W 10km
5.1mb (15 obs.)
EASTER ISLAND CORDILLERA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 10S, 16C
Centroid Location:
Origin Time 03:21:24.3 0 8
Lat 17.11S 0 13 Lon 116.15W 0 10
Dep 15.0 FIX Half-duration 2 7
Principal Axes:
Scale 10**16 Nm
T Val= 9.84 Plg=12 Azm= 82
N 0.63 38 182
P -10.47 49 338
Best Double Couple: Mo=1.0*10**17
NP1: Strike=135 Dip=47 Slip=-148
NP2: 21 67 -48

05 06 05 47.28 21.363S 174.396W 31km
5.7mb (41 obs.) 5.8Msz (32 obs.)
TONGA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 22S, 48C
Centroid Location:
Origin Time 06:05:50.3 0 2
Lat 21.58S 0 02 Lon 173.68W 0 02
Dep 15.0 FIX Half-duration 4 0
Principal Axes:
Scale 10**17 Nm
T Val= 11.85 Plg=72 Azm=305
N 2.14 3 204
P -13.99 18 113
Best Double Couple: Mo=1.3*10**18
NP1: Strike=197 Dip=28 Slip= 82
NP2: 26 63 94

05 11 08 08.91 51.675N 176.351E 33km
5.1mb (71 obs.) 5.0Msz (12 obs.)
RAT ISLANDS, ALEUTIAN ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 28C
Centroid Location:
Origin Time 11:08:11.5 0 6
Lat 51.91N 0 08 Lon 176.75E 0 10
Dep 16.0 4.2 Half-duration 1 8
Principal Axes:
Scale 10**16 Nm
T Val= 11.77 Plg=60 Azm=328
N 0.61 2 236
P -12.38 30 145
Best Double Couple: Mo=1.2*10**17
NP1: Strike=230 Dip=15 Slip= 84
NP2: 56 75 92

06 02 17 31.60 3.827N 95.374E 18km
6.0mb (92 obs.) 5.3Msz (31 obs.)
OFF W COAST OF NORTHERN SUMATERA
FAULT PLANE SOLUTION: P-Waves
NP1: Strike=318 Dip=63 Slip= 90
NP2: 138 27 90
Principal Axes:
T Plg=72 Azm=228
P 18 48

Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
RADIATED ENERGY
No. of sto: 7 Focal mech. M
Energy 7.4±1.6*10**12 Nm
MOMENT TENSOR SOLUTION
Dep 13 No. of sto: 10
Principal Axes:
Scale 10**17 Nm
T Val= 8.21 Plg=62 Azm=257
N 0.10 2 164
P -8.31 28 73
Best Double Couple: Mo=8.3*10**17
NP1: Strike=158 Dip=17 Slip= 84
NP2: 344 73 92
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 21S, 47C M.W.: 13S, 15C
Centroid Location:
Origin Time 02:17:32.5 0 2
Lat 3.66N 0 03 Lon 95.11E 0 03
Dep 34.8 1.8 Half-duration 2 6
Principal Axes:
Scale 10**17 Nm
T Val= 3.72 Plg=87 Azm=277
N -0.10 3 123
P -3.62 2 33
Best Double Couple: Mo=3.7*10**17
NP1: Strike=120 Dip=44 Slip= 86
NP2: 306 47 94

06 14 49 30.57 35.725N 141.044E 29km
5.9mb (96 obs.) 5.7Msz (21 obs.)
NEAR EAST COAST OF HONSHU, JAPAN
FAULT PLANE SOLUTION: P-Waves
NP1: Strike= 52 Dip=77 Slip= 45
NP2: 309 46 162
Principal Axes:
T Plg=40 Azm=281
P 19 174
Comment: The focal mechanism is moderately well controlled and corresponds to reverse faulting with a large strike-slip component. The preferred fault plane is not determined.
RADIATED ENERGY
No. of sto: 9 Focal mech. F
Energy 1.5±0.4*10**13 Nm
MOMENT TENSOR SOLUTION
Dep 42 No. of sto: 16
Principal Axes:
Scale 10**17 Nm
T Val= 9.90 Plg=49 Azm=282
N -0.17 39 84
P -9.73 9 182
Best Double Couple: Mo=9.8*10**17
NP1: Strike=308 Dip=50 Slip= 146
NP2: 62 65 46
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 44C
Centroid Location:
Origin Time 14:49:34.2 0 2
Lat 35.56N 0 03 Lon 141.25E 0 02
Dep 43.8 1.9 Half-duration 3 2
Principal Axes:
Scale 10**17 Nm
T Val= 6.62 Plg=72 Azm=269
N 1.88 6 17
P -8.50 17 109
Best Double Couple: Mo=7.6*10**17
NP1: Strike=208 Dip=28 Slip= 102
NP2: 14 62 84

07 04 54 49.83 4.555S 134.016E 24km
5.1mb (19 obs.) 4.8Msz (3 obs.)
WEST IRIAN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 13S, 21C
Centroid Location:
Origin Time 04:54:53.9 0 9
Lat 4.63S 0 09 Lon 133.65E 0 11
Dep 26.4 8.2 Half-duration 1 5
Principal Axes:
Scale 10**16 Nm

T Val= 10 36 Plg=19 Azm=294
 N -2 24 59 170
 P -8 12 24 33
 Best Double Couple: Mo=9.2*10**16
 NP1: Strike= 73 Dip=59 Slip= -4
 NP2: 164 87 -149

07 05 40 22 74 17 374S 174.959W 254km
 5.2mb (32 obs)
 TONGA ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 9S, 15C
 Centroid Location:
 Origin Time 05:40:32.5 1.9
 Lat 16.97S 0 14 Lon 174.95W 0.12
 Dep 274 1 4 0 Half-duration 1.7
 Principal Axes:
 Scale 10**16 Nm
 T Val= 11.57 Plg=22 Azm=113
 N -0.96 27 11
 P -10.61 54 237
 Best Double Couple: Mo=1.1*10**17
 NP1: Strike=242 Dip=33 Slip= -35
 NP2: 2 72 -118

08 02 09 44.71 0.972N 122.631E 12km
 5.9mb (62 obs.) 6.4Msz (30 obs.)
 MINAHASSA PENINSULA
 FAULT PLANE SOLUTION: P-Waves
 NP1: Strike=255 Dip=78 Slip= 90
 NP2: 75 12 90
 Principal Axes:
 T Plg=57 Azm=165
 P 33 345
 Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
 RADIATED ENERGY
 No of sta: 5 Focal mech. F
 Energy 2 2±0 6*10**13 Nm
 MOMENT TENSOR SOLUTION
 Dep 25 No. of sta: 8
 Principal Axes:
 Scale 10**19 Nm
 T Val= 1.32 Plg=38 Azm=104
 N -0.01 49 258
 P -1.32 13 3
 Best Double Couple: Mo=1.3*10**19
 NP1: Strike=136 Dip=53 Slip= 160
 NP2: 238 74 38
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 24S, 70C M.W.: 14S, 32C
 Centroid Location:
 Origin Time 02:09:57.6 0.1
 Lat 1.54N 0.01 Lon 122.63E 0.01
 Dep 33.2 0.8 Half-duration 7.3
 Principal Axes:
 Scale 10**18 Nm
 T Val= 8.85 Plg=70 Azm=187
 N 1.18 2 92
 P -10.03 20 1
 Best Double Couple: Mo=9.4*10**18
 NP1: Strike= 88 Dip=25 Slip= 86
 NP2: 273 65 92

08 16 30 06 39 20.226S 178.103W 579km
 5.3mb (40 obs)
 FIJI ISLANDS REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 16S, 25C
 Centroid Location:
 Origin Time 16 30:10.7 0.9
 Lat 19 96S 0 08 Lon 178.03W 0 08
 Dep 590.8 4.3 Half-duration 1.8
 Principal Axes:
 Scale 10**17 Nm
 T Val= 1 25 Plg=51 Azm=188
 N 0.22 11 84
 P -1 47 37 345
 Best Double Couple: Mo=1.4*10**17
 NP1: Strike= 26 Dip=13 Slip= 32
 NP2: 265 83 101

08 22 08 30 52 1.331N 122.643E 33km
 5.1mb (11 obs.) 4.2Msz (3 obs.)
 MINAHASSA PENINSULA
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN

L.P.B.: 16S, 30C
 Centroid Location:
 Origin Time 22:08:32.9 0.8
 Lat 1.70N 0.07 Lon 122.86E 0.09
 Dep 16.9 5.6 Half-duration 2.4
 Principal Axes:
 Scale 10**16 Nm
 T Val= 3.91 Plg=72 Azm=128
 N 1.08 15 275
 P -4.99 9 8
 Best Double Couple: Mo=4.4*10**16
 NP1: Strike=115 Dip=38 Slip= 115
 NP2: 265 56 72

09 06 28 03.25 1.409N 122.706E 37km
 5.5mb (37 obs.) 4.8Msz (5 obs.)
 MINAHASSA PENINSULA
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 19S, 34C
 Centroid Location:
 Origin Time 06:28: 3.2 0.4
 Lat 1.67N 0.03 Lon 122.82E 0.05
 Dep 29.8 3.3 Half-duration 1.6
 Principal Axes:
 Scale 10**17 Nm
 T Val= 0.93 Plg=81 Azm=238
 N 0.17 6 101
 P -1.10 6 10
 Best Double Couple: Mo=1.0*10**17
 NP1: Strike= 93 Dip=40 Slip= 80
 NP2: 286 51 98

09 09 33 49.69 9.737N 84.054W 5km
 4.7mb (22 obs.) 4.7Msz (4 obs.)
 COSTA RICA
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 15S, 27C
 Centroid Location:
 Origin Time 09:33:57.9 1.0
 Lat 9.96N 0.07 Lon 84.23W 0.07
 Dep 15.0 FIX Half-duration 1.8
 Principal Axes:
 Scale 10**16 Nm
 T Val= 9.45 Plg= 0 Azm=113
 N -2.03 90 180
 P -7.41 0 23
 Best Double Couple: Mo=8.4*10**16
 NP1: Strike=158 Dip=90 Slip=-180
 NP2: 248 90 0

09 20 16 01.07 23.320S 179.185W 465km
 5.4mb (47 obs.)
 SOUTH OF FIJI ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 19S, 32C
 Centroid Location:
 Origin Time 20:16: 4.0 0.4
 Lat 23.29S 0.05 Lon 179.10W 0.04
 Dep 456.0 2.0 Half-duration 2.0
 Principal Axes:
 Scale 10**17 Nm
 T Val= 2.01 Plg=54 Azm= 95
 N 0.19 5 191
 P -2.21 36 285
 Best Double Couple: Mo=2.1*10**17
 NP1: Strike= 39 Dip=10 Slip= 118
 NP2: 190 81 85

11 12 18 24.08 52.527N 159.482E 33km
 5.0mb (54 obs.) 4.7Msz (7 obs.)
 OFF EAST COAST OF KAMCHATKA
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 16S, 24C
 Centroid Location:
 Origin Time 12:18:29.9 0.6
 Lat 52.07N 0.11 Lon 159.61E 0.10
 Dep 33.0 FIX Half-duration 1.6
 Principal Axes:
 Scale 10**16 Nm
 T Val= 10.22 Plg=42 Azm= 12
 N -3.19 33 247
 P -7.03 31 134
 Best Double Couple: Mo=8.6*10**16
 NP1: Strike=170 Dip=34 Slip= 11
 NP2: 71 84 123

11 14 43 54.28 3.141S 130.320E 33km
 5.7mb (39 obs.) 5.3Msz (14 obs.)
 CERAM

CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 24S, 50C
 Centroid Location:
 Origin Time 14:43:56.9 0.2
 Lat 2.97S 0.02 Lon 130.30E 0.03
 Dep 26.5 1.6 Half-duration 3.2
 Principal Axes:
 Scale 10**17 Nm
 T Val= 6.84 Plg=62 Azm=223
 N -0.12 2 130
 P -6.72 28 38
 Best Double Couple: Mo=6.8*10**17
 NP1: Strike=123 Dip=17 Slip= 83
 NP2: 310 73 92

12 13 02 30.24 14.170S 14.255W 10km
 5.5mb (62 obs.) 5.5Msz (24 obs.)
 SOUTH ATLANTIC RIDGE
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 22S, 46C
 Centroid Location:
 Origin Time 13:02:39.0 0.3
 Lat 13.78S 0.03 Lon 14.51W 0.02
 Dep 15.0 FIX Half-duration 3.0
 Principal Axes:
 Scale 10**17 Nm
 T Val= 5.08 Plg= 0 Azm=216
 N -0.97 90 180
 P -4.11 0 126
 Best Double Couple: Mo=4.6*10**17
 NP1: Strike=261 Dip=90 Slip=-180
 NP2: 351 90 0

13 02 11 16.36 52.791N 34.944W 10km
 5.2mb (44 obs.) 5.2Msz (21 obs.)
 NORTH ATLANTIC OCEAN
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 19S, 36C
 Centroid Location:
 Origin Time 02:11:17.8 0.5
 Lat 52.66N 0.05 Lon 34.70W 0.08
 Dep 15.0 FIX Half-duration 2.1
 Principal Axes:
 Scale 10**17 Nm
 T Val= 1.98 Plg= 4 Azm=249
 N 0.35 30 341
 P -2.33 60 152
 Best Double Couple: Mo=2.2*10**17
 NP1: Strike=311 Dip=49 Slip=-131
 NP2: 184 56 -53

13 20 14 13.71 3.061S 130.412E 26km
 5.2mb (20 obs.)
 CERAM
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 22C
 Centroid Location:
 Origin Time 20:14:17.4 1.0
 Lat 2.71S 0.09 Lon 130.25E 0.12
 Dep 15.7 FIX Half-duration 1.8
 Principal Axes:
 Scale 10**16 Nm
 T Val= 6.24 Plg=63 Azm=205
 N 0.25 5 306
 P -6.49 26 38
 Best Double Couple: Mo=6.4*10**16
 NP1: Strike=141 Dip=19 Slip= 107
 NP2: 304 71 84

13 22 31 44.85 18.896N 145.177E 604km
 5.1mb (22 obs.)
 MARIANA ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 8S, 12C
 Centroid Location:
 Origin Time 22:31:49.5 1.4
 Lat 19.16N 0.12 Lon 145.41E 0.08
 Dep 627.5 9.1 Half-duration 1.4
 Principal Axes:
 Scale 10**16 Nm
 T Val= 3.23 Plg=10 Azm=239
 N 1.65 29 143
 P -4.88 59 346
 Best Double Couple: Mo=4.1*10**16
 NP1: Strike=359 Dip=43 Slip= -45
 NP2: 125 61 -124

14 12 53 26.02 54.389N 169.296W 275km

5 7mb (102 obs.)
FOX ISLANDS, ALEUTIAN ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike= 85 Dip=63 Slip= 135
NP2: 199 51 36
Principal Axes:
T P1g=50 Azm= 46
P 7 145
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting with a large left-lateral strike-slip component. The preferred fault plane is NP2.
RADIATED ENERGY
No. of sta: 11 Focal mech. F
Energy 9.8±2.5*10**12 Nm
MOMENT TENSOR SOLUTION
Dep 269 No. of sta: 17
Principal Axes:
Scale 10**18 Nm
T Val= 1.17 P1g=52 Azm= 47
N -0.06 37 241
P -1.11 7 146
Best Double Couple:Mo=1.1*10**18
NP1:Strike=202 Dip=50 Slip= 38
NP2: 85 62 133
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 22S, 62C
Centroid Location:
Origin Time 12:53.30.0 0.2
Lat 54.34N 0.03 Lon 169.15W 0.02
Dep 277.6 1.2 Half-duration 3.8
Principal Axes:
Scale 10**17 Nm
T Val= 11.99 P1g=45 Azm= 55
N -0.52 45 237
P -11.47 1 146
Best Double Couple:Mo=1.2*10**18
NP1:Strike=200 Dip=59 Slip= 35
NP2: 90 61 144
14 17 43 07 47 3.159N 127.949E 124km
5.5mb (40 obs.)
TALAUD ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 11S, 22C
Centroid Location:
Origin Time 17:43: 5.4 0.9
Lat 3.10N 0.07 Lon 127.97E 0.07
Dep 138.4 2.3 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 7.82 P1g= 9 Azm=114
N 2.84 16 21
P -10.66 72 232
Best Double Couple:Mo=9.2*10**16
NP1:Strike=222 Dip=39 Slip= -64
NP2: 10 56 -109
14 19 15 03.67 13.593S 167.607E 14km
6.1mb (65 obs.) 6.6Msz (36 obs.)
VANUATU ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=100 Dip=63 Slip= 18
NP2: 2 74 152
Principal Axes:
T P1g=31 Azm=318
P 7 53
Comment: The focal mechanism is moderately well controlled and corresponds to strike-slip faulting with a moderate reverse component. The preferred fault plane is not determined
RADIATED ENERGY
No. of sta: 13 Focal mech. C
Energy 2.8±0.8*10**14 Nm
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 25S, 68C M.W.: 19S, 35C
Centroid Location:
Origin Time 19:15: 7.4 0.1
Lat 13.71S 0.02 Lon 167.83E 0.01
Dep 15.0 FIX Half-duration 6.3
Principal Axes:
Scale 10**18 Nm
T Val= 4.73 P1g=32 Azm=318
N 3.80 57 156

P -8.53 8 53
Best Double Couple:Mo=6.6*10**18
NP1:Strike=101 Dip=62 Slip= 18
NP2: 2 74 151
15 13 35 59.46 16.064S 168.010E 171km
5.9mb (57 obs.)
VANUATU ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=247 Dip=83 Slip= 90
NP2: 67 7 90
Principal Axes:
T P1g=52 Azm=157
P 38 337
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
RADIATED ENERGY
No. of sta: 14 Focal mech. C
Energy 3.6±0.9*10**13 Nm
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 25S, 65C
Centroid Location:
Origin Time 13:36: 6.2 0.1
Lat 15.89S 0.02 Lon 167.95E 0.01
Dep 189.2 0.6 Half-duration 5.4
Principal Axes:
Scale 10**18 Nm
T Val= 3.48 P1g=45 Azm=176
N -0.30 15 70
P -3.19 41 326
Best Double Couple:Mo=3.3*10**18
NP1:Strike=348 Dip=15 Slip= 8
NP2: 250 88 105
15 23 27 53.80 52.823N 170.789W 105km
5.3mb (78 obs.)
FOX ISLANDS, ALEUTIAN ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 20S, 38C
Centroid Location:
Origin Time 23:27:55.4 0.2
Lat 52.62N 0.03 Lon 170.77W 0.03
Dep 112.0 1.5 Half-duration 2.3
Principal Axes:
Scale 10**17 Nm
T Val= 2.74 P1g=20 Azm= 41
N 0.31 11 307
P -3.05 67 191
Best Double Couple:Mo=2.9*10**17
NP1:Strike=150 Dip=27 Slip= -65
NP2: 302 66 -102
16 22 26 17.21 41.697N 125.385W 10km
5.5mb (64 obs.) 6.3Msz (26 obs.)
OFF COAST OF NORTHERN CALIFORNIA
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=310 Dip=90 Slip=175
NP2: 220 85 -360
Principal Axes:
T P1g= 4 Azm= 85
P 4 175
Comment: The focal mechanism is moderately well controlled and corresponds to strike-slip faulting with a small reverse component. The preferred fault plane is not determined.
RADIATED ENERGY
No. of sta: 8 Focal mech. F
Energy 5.0±1.7*10**14 Nm
MOMENT TENSOR SOLUTION
Dep 13 No. of sta: 13
Principal Axes:
Scale 10**18 Nm
T Val= 3.81 P1g= 8 Azm= 82
N -0.02 81 287
P -3.79 4 173
Best Double Couple:Mo=3.8*10**18
NP1:Strike=218 Dip=82 Slip= 3
NP2: 127 87 171
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 19S, 54C M.W.: 13S, 26C
Centroid Location:
Origin Time 22:26:18.9 0.2
Lat 41.23N 0.02 Lon 125.56W 0.02
Dep 15.0 FIX Half-duration 6.1
Principal Axes:

Scale 10**18 Nm
T Val= 3.21 P1g=20 Azm=261
N -0.16 67 113
P -3.05 11 355
Best Double Couple:Mo=3.1*10**18
NP1:Strike= 40 Dip=68 Slip= 6
NP2: 307 84 158
17 06 18 34.03 10.045N 69.948W 10km
5.5mb (14 obs.) 5.2Msz (4 obs.)
VENEZUELA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 23S, 51C
Centroid Location:
Origin Time 06:18:33.7 0.4
Lat 9.74N 0.04 Lon 69.83W 0.05
Dep 15.0 FIX Half-duration 2.4
Principal Axes:
Scale 10**17 Nm
T Val= 2.41 P1g= 1 Azm=209
N 0.33 85 112
P -2.74 5 299
Best Double Couple:Mo=2.6*10**17
NP1:Strike=344 Dip=86 Slip= -3
NP2: 74 87 -176
17 12 39 03.82 10.617N 62.176W 63km
5 2mb (74 obs.)
NEAR COAST OF VENEZUELA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 18S, 40C
Centroid Location:
Origin Time 12:39: 7 0 0.4
Lat 10.54N 0.04 Lon 62.20W 0.05
Dep 45 2 3.8 Half-duration 2.1
Principal Axes:
Scale 10**17 Nm
T Val= 1.57 P1g=34 Azm= 0
N 0.02 9 264
P -1.59 55 161
Best Double Couple:Mo=1 6*10**17
NP1 Strike=124 Dip=14 Slip= -49
NP2: 262 79 -99
17 19 29 40.00 40.235N 124.348W 12km
6.0mb (94 obs.) 6.2Msz (21 obs.)
NEAR COAST OF NORTHERN CALIF.
FAULT PLANE SOLUTION: P-Waves
NP1:Strike=168 Dip=68 Slip= 90
NP2: 348 22 90
Principal Axes:
T P1g=67 Azm= 78
P 23 258
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2.
RADIATED ENERGY
No. of sta: 13 Focal mech. M
Energy 4.0±1.1*10**13 Nm
MOMENT TENSOR SOLUTION
Dep 6 No. of sta: 12
Principal Axes:
Scale 10**18 Nm
T Val= 3.39 P1g=56 Azm= 40
N -0.09 28 184
P -3.30 17 283
Best Double Couple:Mo=3.3*10**18
NP1:Strike= 48 Dip=38 Slip= 141
NP2: 171 68 59
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 19S, 50C M.W.: 9S, 17C
Centroid Location:
Origin Time 19:29:42.3 0.2
Lat 40.02N 0.03 Lon 124.38W 0.03
Dep 15.0 BDY Half-duration 3.9
Principal Axes:
Scale 10**18 Nm
T Val= 2.09 P1g=60 Azm=103
N -0.40 14 348
P -1.70 27 251
Best Double Couple:Mo=1.9*10**18
NP1:Strike=311 Dip=22 Slip= 51
NP2: 173 73 104
17 22 17 14.68 41.821N 125.397W 14km
6.2mb (80 obs.) 7.1Msz (22 obs.)
OFF COAST OF NORTHERN CALIFORNIA
FAULT PLANE SOLUTION: P-Waves

NP1:Strike=125 Dip=87 Slip=-180
 NP2: 215 90 -357
 Principal Axes:
 T Plg= 2 Azm= 80
 P 2 350
 Comment: The focal mechanism is moderately well controlled and corresponds to strike-slip faulting. The preferred fault plane is not determined.
 RADIATED ENERGY
 No. of sta: 8 Focal mech. F
 Energy 7.8±1.3*10**15 Nm
 MOMENT TENSOR SOLUTION
 Dep 12 No. of sta: 14
 Principal Axes:
 Scale 10**19 Nm
 T Val= 2.33 Plg= 1 Azm= 93
 N 0 00 77 185
 P -2.33 13 3
 Best Double Couple:Mo=2.3*10**19
 NP1:Strike=138 Dip=81 Slip=-171
 NP2: 47 82 -9
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 18S, 47C M.W. 21S, 48C
 Centroid Location:
 Origin Time 22:17:20.8 0.1
 Lat 41.71N 0.01 Lon 125.63W 0.01
 Dep 15.0 FIX Half-duration 13.1
 Principal Axes:
 Scale 10**19 Nm
 T Val= 4.55 Plg=22 Azm=273
 N -0.24 62 53
 P -4.31 16 177
 Best Double Couple:Mo=4.4*10**19
 NP1:Strike=314 Dip=62 Slip= 176
 NP2: 46 86 28
 18 21 52 06.00 31.939S 71.483W 46km
 5.4mb (45 obs.) 4.9Msz (6 obs.)
 NEAR COAST OF CENTRAL CHILE
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 15S, 29C
 Centroid Location:
 Origin Time 21:52:13.9 0.5
 Lat 31.95S 0.07 Lon 71.90W 0.11
 Dep 46.3 7.2 Half-duration 2.0
 Principal Axes:
 Scale 10**16 Nm
 T Val= 8.02 Plg=54 Azm=114
 N 0.46 15 3
 P -8.47 32 263
 Best Double Couple:Mo=8.2*10**16
 NP1:Strike=312 Dip=18 Slip= 37
 NP2: 186 79 105
 19 06 05 51.30 46.944N 85.302E 30km
 5.5mb (88 obs.) 5.1Msz (11 obs.)
 NORTHERN XINJIANG, CHINA
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 14S, 21C
 Centroid Location:
 Origin Time 06:05:43.4 1.1
 Lat 46.03N 0.08 Lon 85.41E 0.11
 Dep 54.8 6.6 Half-duration 1.6
 Principal Axes:
 Scale 10**16 Nm
 T Val= 8.30 Plg=63 Azm=243
 N 1 41 22 101
 P -9.71 15 5
 Best Double Couple:Mo=9.0*10**16
 NP1:Strike= 68 Dip=36 Slip= 51
 NP2: 293 63 114
 20 08 46 40 58 37.646N 72.150E 135km
 5.2mb (67 obs.)
 TAJIK SSR
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 21C
 Centroid Location:
 Origin Time 08:46:44 1 1.0
 Lat 37.46N 0.12 Lon 72.08E 0.09
 Dep 141.7 3.5 Half-duration 1.6
 Principal Axes:
 Scale 10**16 Nm
 T Val= 9.74 Plg=47 Azm=132
 N -0.47 0 222
 P -9.27 43 313
 Best Double Couple:Mo=9.5*10**16
 NP1:Strike= 45 Dip= 2 Slip= 93
 NP2: 222 88 90
 22 07 07 43.13 23.728S 179.819W 521km
 5.3mb (36 obs.)
 SOUTH OF FIJI ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 11S, 14C
 Centroid Location:
 Origin Time 07:07:53.0 1 9
 Lat 22.92S 0.24 Lon 179.94E 0 11
 Dep 535.0 7.5 Half-duration 1 6
 Principal Axes:
 Scale 10**16 Nm
 T Val= 7.57 Plg= 3 Azm= 94
 N -2.61 48 0
 P -4.97 42 187
 Best Double Couple:Mo=6.3*10**16
 NP1:Strike=222 Dip=59 Slip=-30
 NP2: 328 65 -145
 22 13 18 12.61 23.834S 179.790W 535km
 5.3mb (50 obs.)
 SOUTH OF FIJI ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 15S, 26C
 Centroid Location:
 Origin Time 13:18:18.6 1 0
 Lat 23.45S 0.11 Lon 179.86W 0.07
 Dep 529 0 3.9 Half-duration 2 1
 Principal Axes:
 Scale 10**17 Nm
 T Val= 1.69 Plg=37 Azm= 22
 N 0.00 21 129
 P -1.69 45 242
 Best Double Couple:Mo=1.7*10**17
 NP1:Strike= 52 Dip=22 Slip=-168
 NP2: 311 85 -69
 23 20 16 24 58 9.209S 123.526E 31km
 5.4mb (26 obs.)
 TIMOR
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 8S, 14C
 Centroid Location:
 Origin Time 20:16:39.5 0 9
 Lat 9.24S 0.12 Lon 123.92E 0 22
 Dep 44.911 0 Half-duration 1 5
 Principal Axes:
 Scale 10**16 Nm
 T Val= 5.81 Plg=52 Azm= 11
 N 0.74 8 271
 P -6.55 37 175
 Best Double Couple:Mo=6.2*10**16
 NP1:Strike=227 Dip=11 Slip= 45
 NP2: 92 82 98
 24 08 03 11.29 14.607S 166.869E 84km
 5.3mb (37 obs.)
 VANUATU ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 16S, 35C
 Centroid Location:
 Origin Time 08:03:14.9 0 6
 Lat 14.06S 0.07 Lon 167.28E 0 05
 Dep 33.7 FIX Half-duration 2 1
 Principal Axes:
 Scale 10**17 Nm
 T Val= 1.66 Plg= 6 Azm=197
 N 0.97 54 296
 P -2.64 35 103
 Best Double Couple:Mo=2.2*10**17
 NP1:Strike=246 Dip=61 Slip=-158
 NP2: 145 71 -31
 24 11 13 19.75 6.065S 130.368E 149km
 5.6mb (32 obs.)
 BANDA SEA
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 20S, 48C
 Centroid Location:
 Origin Time 11:13:20.8 0 4
 Lat 5.82S 0.03 Lon 130.60E 0 03
 Dep 111.5 1.1 Half-duration 2 7
 Principal Axes:
 Scale 10**17 Nm
 T Val= 4.31 Plg=49 Azm=268
 N 0.85 41 96
 P -5.17 4 3
 Best Double Couple:Mo=4.7*10**17
 NP1:Strike= 58 Dip=55 Slip= 36
 NP2: 305 61 139
 25 06 40 05.96 21.354S 174.174W 33km
 5.5mb (34 obs.) 5.5Msz (17 obs.)
 TONGA ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 18S, 38C
 Centroid Location:
 Origin Time 06:40: 7.1 0 4
 Lat 21.63S 0.04 Lon 173.41W 0 04
 Dep 15.0 FIX Half-duration 2 0
 Principal Axes:
 Scale 10**17 Nm
 T Val= 1.94 Plg=71 Azm=296
 N 0.20 1 204
 P -2.14 19 114
 Best Double Couple:Mo=2.0*10**17
 NP1:Strike=203 Dip=26 Slip= 89
 NP2: 25 64 91
 26 10 01 59.74 18.959N 80.877W 10km
 5.3mb (67 obs.) 5.4Msz (20 obs.)
 CARIBBEAN SEA
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 20S, 50C
 Centroid Location:
 Origin Time 10:02: 4.8 0 4
 Lat 19.05N 0.03 Lon 80.96W 0 03
 Dep 15.0 FIX Half-duration 3 0
 Principal Axes:
 Scale 10**17 Nm
 T Val= 5.25 Plg=18 Azm=121
 N -0.90 72 306
 P -4.35 1 212
 Best Double Couple:Mo=4.8*10**17
 NP1:Strike=258 Dip=77 Slip= 12
 NP2: 165 79 166
 26 14 59 44.91 42.100N 144.635E 29km
 5.8mb (96 obs.) 5.7Msz (28 obs.)
 HOKKAIDO, JAPAN REGION
 FAULT PLANE SOLUTION: P-Waves
 NP1:Strike=260 Dip=75 Slip=-117
 NP2: 143 31 -31
 Principal Axes:
 T Plg=25 Azm= 11
 P 52 138
 Comment: The focal mechanism is poorly controlled and corresponds to normal faulting with a moderate strike-slip component. The preferred fault plane is not determined.
 RADIATED ENERGY
 No. of sta: 12 Focal mech. C
 Energy 7.0±1.7*10**12 Nm
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 17S, 41C
 Centroid Location:
 Origin Time 14:59:46.7 0 2
 Lat 42.14N 0.02 Lon 144.68E 0 04
 Dep 26.2 1.9 Half-duration 2 8
 Principal Axes:
 Scale 10**17 Nm
 T Val= 3.91 Plg=12 Azm=348
 N 0.16 0 258
 P -4.07 78 168
 Best Double Couple:Mo=4.0*10**17
 NP1:Strike= 79 Dip=33 Slip=-90
 NP2: 258 57 -90
 26 20 42 31.83 6.937N 94.531E 26km
 5.4mb (70 obs.) 5.6Msz (3 obs.)
 NICOBAR ISLANDS REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 18S, 40C
 Centroid Location:
 Origin Time 20:42:40.5 0 5
 Lat 7.14N 0.04 Lon 95.29E 0 06
 Dep 32.4 4.5 Half-duration 2 9
 Principal Axes:
 Scale 10**17 Nm
 T Val= 5.59 Plg=18 Azm=278
 N -0.78 70 120
 P -4.81 7 11
 Best Double Couple:Mo=5.2*10**17

NP1:Strike= 56 Dip=72 Slip= 8
 NP2: 323 82 162

26 20 54 23.02 6.882N 94.609E 22km
 5.8mb (84 obs.) 5.8Msz (17 obs.)
 NICOBAR ISLANDS REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 16S, 29C
 Centroid Location:
 Origin Time 20:54:25.4 1 1
 Lat 7.30N 0.09 Lon 94.54E 0 11
 Dep 49.6 8.8 Half-duration 3.4
 Principal Axes:
 Scale 10**17 Nm
 T Val= 8.12 Plg= 5 Azm=281
 N -0.84 67 24
 P -7.28 22 189
 Best Double Couple:Mo=7.7*10**17
 NP1:Strike=327 Dip=71 Slip=-168
 NP2: 233 78 -20

26 21 56 13.61 6.669N 94.661E 33km
 5.0mb (31 obs.) 4.7Msz (1 obs.)
 NICOBAR ISLANDS REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 10S, 21C
 Centroid Location:
 Origin Time 21:56:15.4 2.3
 Lat 6.97N 0.13 Lon 95.03E 0.23
 Dep 35.612.1 Half-duration 1.8
 Principal Axes:
 Scale 10**16 Nm
 T Val= 11.92 Plg=28 Azm=279
 N -3.08 58 66
 P -8.84 15 181
 Best Double Couple:Mo=1.0*10**17
 NP1:Strike=317 Dip=59 Slip= 170
 NP2: 52 81 31

27 08 50 57.44 18.037S 178.485W 599km
 5.2mb (49 obs.)
 FIJI ISLANDS REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 18S, 31C
 Centroid Location:
 Origin Time 08:51:2.9 0.5
 Lat 17.74S 0.05 Lon 178.36W 0.04
 Dep 618.1 3.0 Half-duration 2.1
 Principal Axes:
 Scale 10**17 Nm
 T Val= 1.63 Plg=68 Azm= 9
 N -0.51 17 148
 P -1.12 14 242
 Best Double Couple:Mo=1.4*10**17
 NP1:Strike=354 Dip=35 Slip= 121
 NP2: 138 61 70

27 11 46 22.36 16.278S 73.278W 74km
 5.3mb (43 obs.)
 NEAR COAST OF PERU
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 19S, 40C
 Centroid Location:
 Origin Time 11:46:23.3 0.4
 Lat 16.57S 0.04 Lon 73.04W 0.06
 Dep 105.3 3.0 Half-duration 1.9
 Principal Axes:
 Scale 10**16 Nm
 T Val= 13.69 Plg=23 Azm= 32
 N -0.09 10 127
 P -13.60 65 239
 Best Double Couple:Mo=1.4*10**17
 NP1:Strike=103 Dip=24 Slip=-115
 NP2: 311 69 -79

27 11 58 22.17 21.657S 68.506W 116km
 5.1mb (34 obs.)
 CHILE-BOLIVIA BORDER REGION
 CENTROID, MOMENT TENSOR (HRV)

Data Used: GDSN
 L.P.B.: 15S, 23C
 Centroid Location:
 Origin Time 11:58:30.2 0.8
 Lat 21.24S 0.09 Lon 68.67W 0 12
 Dep 119.5 5.5 Half-duration 1.9
 Principal Axes:
 Scale 10**17 Nm
 T Val= 1.54 Plg=21 Azm= 96
 N -0.07 9 2
 P -1.48 67 251
 Best Double Couple:Mo=1.5*10**17
 NP1:Strike=202 Dip=25 Slip=-68
 NP2: 358 67 -100

28 01 29 02.05 35.338N 133.208E 13km
 5.2mb (32 obs.) 5.3Msz (3 obs.)
 SOUTHERN HONSHU, JAPAN
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 15S, 27C
 Centroid Location:
 Origin Time 01:29:5.6 0.4
 Lat 35.04N 0.04 Lon 132.63E 0.05
 Dep 15.0 FIX Half-duration 2.0
 Principal Axes:
 Scale 10**17 Nm
 T Val= 2.30 Plg=36 Azm= 19
 N -0.70 54 203
 P -1.60 2 110
 Best Double Couple:Mo=2.0*10**17
 NP1:Strike=161 Dip=64 Slip= 26
 NP2: 59 67 152

28 06 47 44.08 21.191S 170.365E 21km
 5.3mb (13 obs.) 4.7Msz (4 obs.)
 LOYALTY ISLANDS REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 13S, 23C
 Centroid Location:
 Origin Time 06:47:47.9 3.5
 Lat 21.20S 0.31 Lon 170.35E 0.18
 Dep 21.6 8.5 Half-duration 1.6
 Principal Axes:
 Scale 10**16 Nm
 T Val= 8.46 Plg=10 Azm= 66
 N -1.24 50 324
 P -7.22 38 164
 Best Double Couple:Mo=7.8*10**16
 NP1:Strike=198 Dip=56 Slip=-22
 NP2: 301 72 -144

28 21 32 35.04 22.230S 179.639E 599km
 5.5mb (43 obs.)
 SOUTH OF FIJI ISLANDS
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 19S, 46C
 Centroid Location:
 Origin Time 21:32:42.2 0.3
 Lat 22.08S 0.04 Lon 179.62E 0.03
 Dep 618.4 2.4 Half-duration 2.9
 Principal Axes:
 Scale 10**17 Nm
 T Val= 5.32 Plg=25 Azm=102
 N 2.95 39 214
 P -8.27 40 348
 Best Double Couple:Mo=6.8*10**17
 NP1:Strike=142 Dip=41 Slip=-166
 NP2: 42 81 -50

29 01 00 36.36 17.823S 115.975W 10km
 5.3mb (14 obs.) 4.8Msz (4 obs.)
 EASTER ISLAND CORDILLERA
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 18S, 34C
 Centroid Location:
 Origin Time 01:00:43.5 0.4
 Lat 17.78S 0.06 Lon 116.54W 0.05
 Dep 15.0 FIX Half-duration 2.0
 Principal Axes:
 Scale 10**17 Nm
 T Val= 1.73 Plg=66 Azm=333
 N -0.19 14 97
 P -1.55 19 192
 Best Double Couple:Mo=1.6*10**17
 NP1:Strike=304 Dip=29 Slip= 120
 NP2: 90 65 75

Scale 10**17 Nm
 T Val= 1.76 Plg=21 Azm= 81
 N -0.19 7 174
 P -1.57 68 283
 Best Double Couple:Mo=1.7*10**17
 NP1:Strike=158 Dip=25 Slip=-108
 NP2: 357 66 -82

29 05 21 11.60 20.710S 177.749W 376km
 5.4mb (45 obs.)
 FIJI ISLANDS REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 21S, 51C
 Centroid Location:
 Origin Time 05:21:19.4 0.7
 Lat 20.30S 0.06 Lon 177.54W 0.05
 Dep 406.9 2.4 Half-duration 2.9
 Principal Axes:
 Scale 10**17 Nm
 T Val= 3.94 Plg=52 Azm=254
 N 0.01 38 81
 P -3.95 3 348
 Best Double Couple:Mo=3.9*10**17
 NP1:Strike= 45 Dip=54 Slip= 40
 NP2: 289 59 136

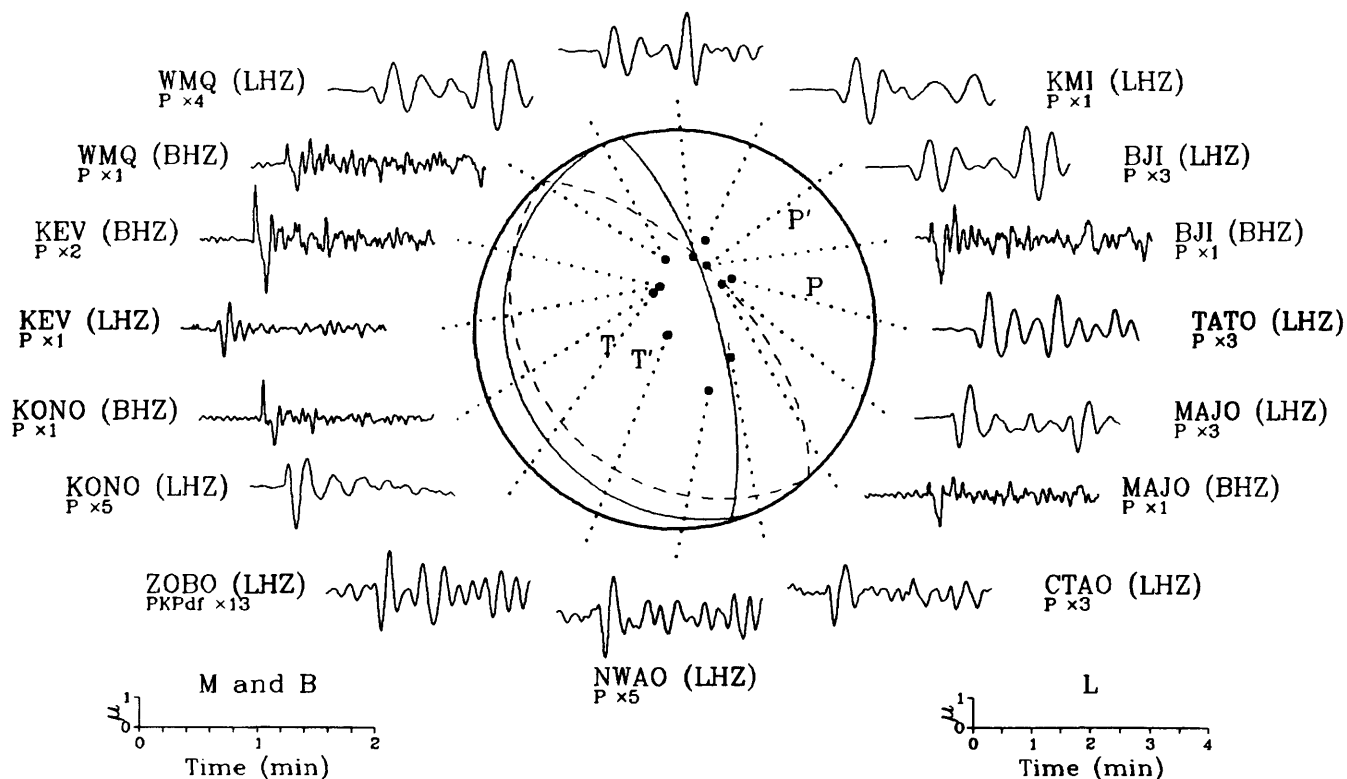
29 08 44 40.97 3.161S 139.709E 33km
 5.1mb (17 obs.) 4.7Msz (1 obs.)
 WEST IRIAN
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 21S, 46C
 Centroid Location:
 Origin Time 08:44:46.1 0.4
 Lat 3.20S 0.04 Lon 140.21E 0.04
 Dep 33.0 FIX Half-duration 2.0
 Principal Axes:
 Scale 10**17 Nm
 T Val= 2.22 Plg=61 Azm=257
 N 0.02 18 132
 P -2.25 22 35
 Best Double Couple:Mo=2.2*10**17
 NP1:Strike= 95 Dip=28 Slip= 49
 NP2: 319 70 109

29 16 59 49.02 6.988S 12.677W 10km
 5.0mb (37 obs.) 4.8Msz (9 obs.)
 ASCENSION ISLAND REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 15S, 34C
 Centroid Location:
 Origin Time 16:59:54.9 0.8
 Lat 6.70S 0.08 Lon 12.90W 0.06
 Dep 15.0 FIX Half-duration 2.1
 Principal Axes:
 Scale 10**17 Nm
 T Val= 1.42 Plg= 0 Azm=118
 N 0.11 90 180
 P -1.53 0 28
 Best Double Couple:Mo=1.5*10**17
 NP1:Strike=163 Dip=90 Slip=-180
 NP2: 253 90 0

31 20 21 48.78 22.191S 170.178E 33km
 4.9mb (9 obs.) 4.9Msz (4 obs.)
 LOYALTY ISLANDS REGION
 CENTROID, MOMENT TENSOR (HRV)
 Data Used: GDSN
 L.P.B.: 21S, 39C
 Centroid Location:
 Origin Time 20:21:51.3 0.5
 Lat 22.46S 0.06 Lon 170.16E 0.05
 Dep 15.0 FIX Half-duration 1.7
 Principal Axes:
 Scale 10**17 Nm
 T Val= 1.73 Plg=66 Azm=333
 N -0.19 14 97
 P -1.55 19 192
 Best Double Couple:Mo=1.6*10**17
 NP1:Strike=304 Dip=29 Slip= 120
 NP2: 90 65 75

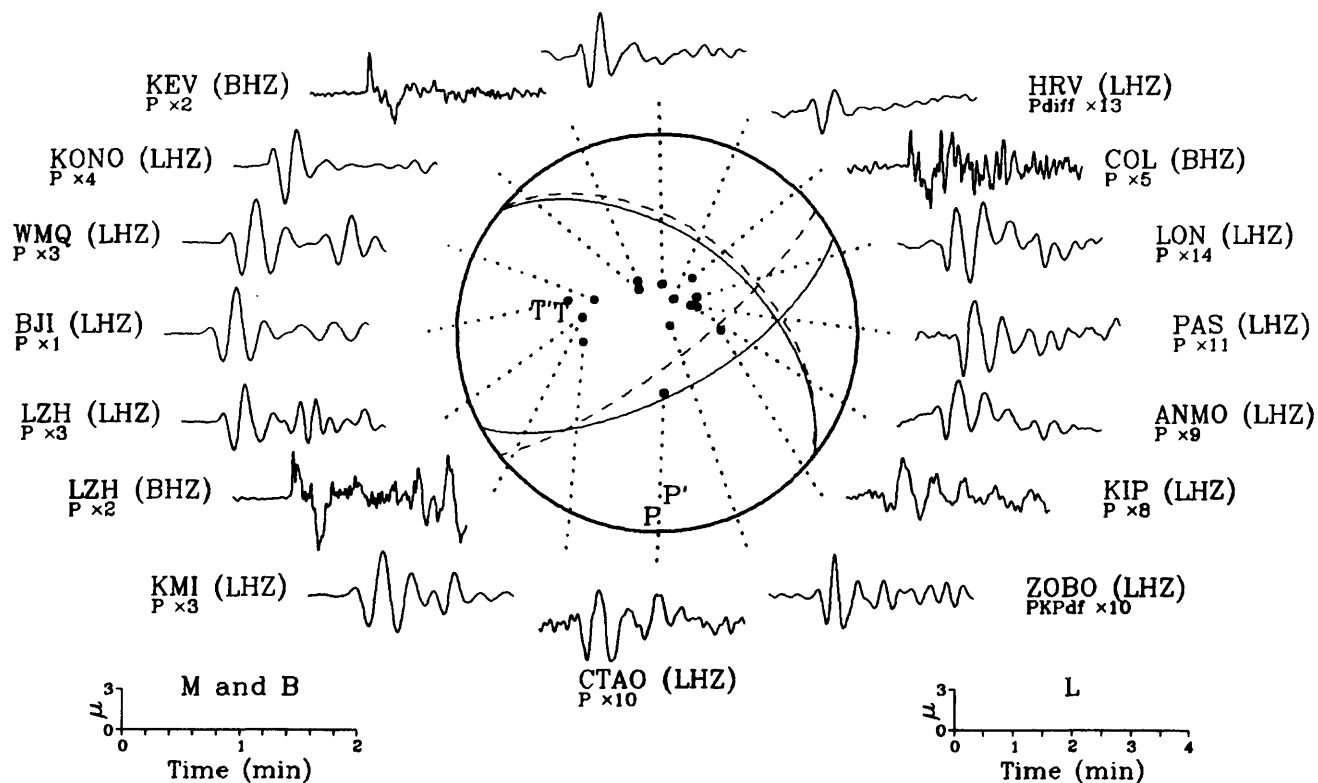
06 August 1991 02:17:31.60
Off W Coast of Northern Sumatera

LZH (LHZ)
 $P \times 4$

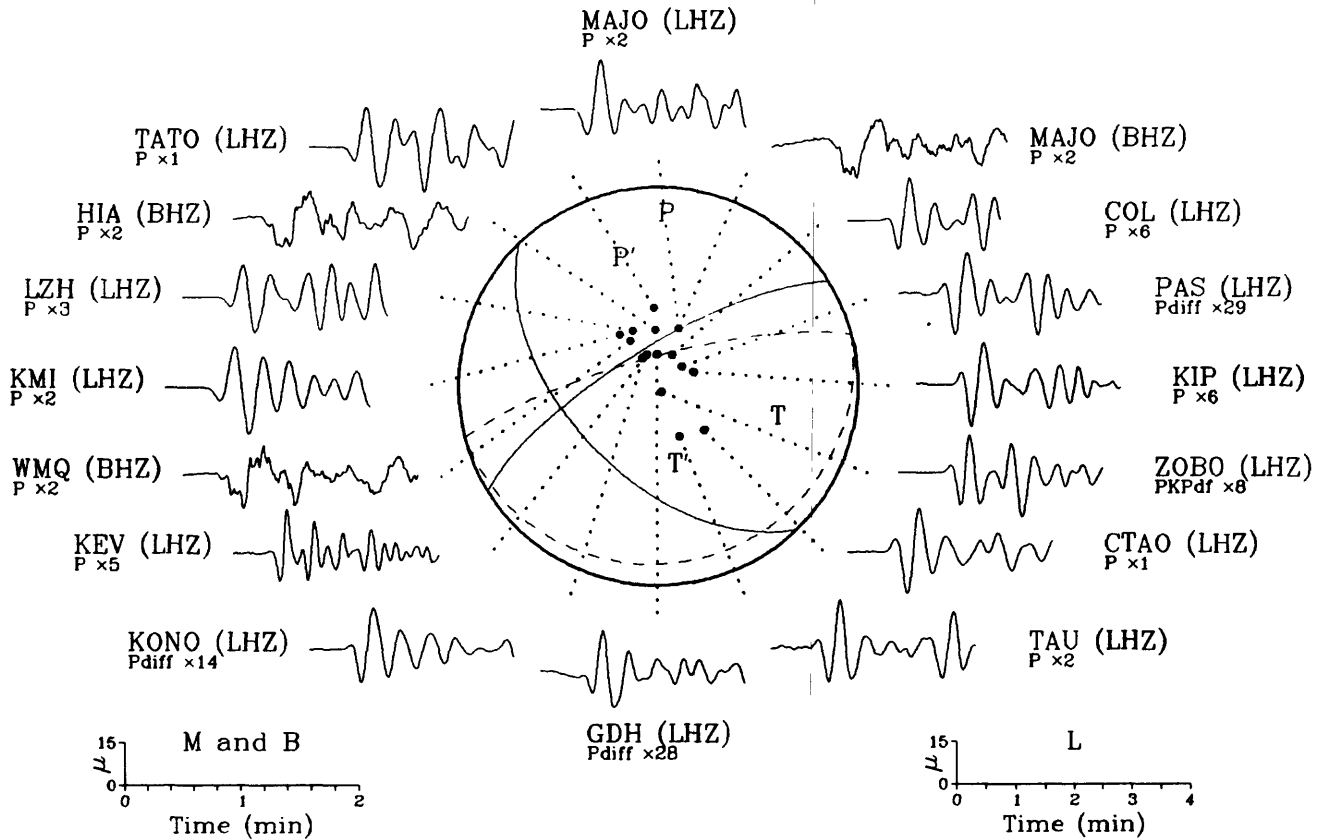


06 August 1991 14:49:30.57
Near East Coast of Honshu, Japan

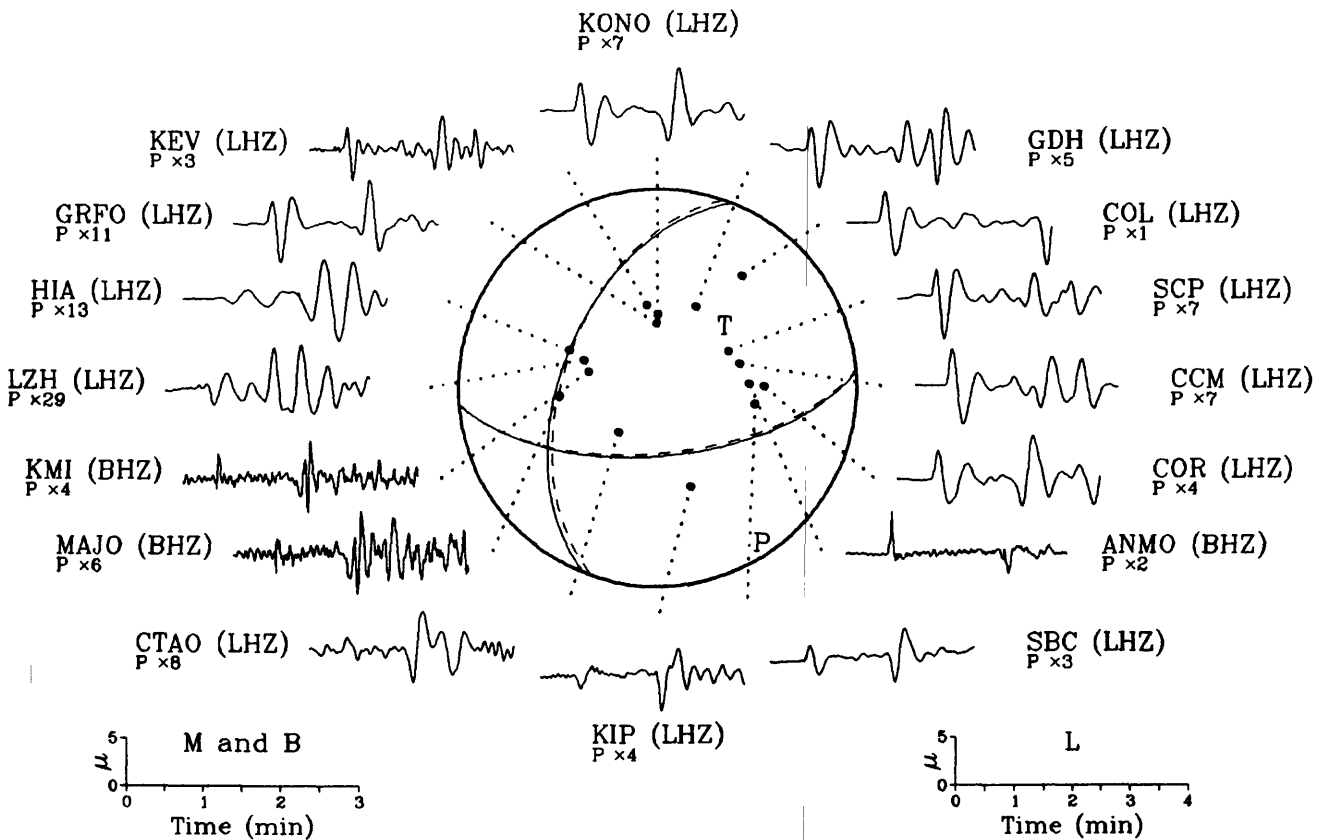
GDH (LHZ)
 $P \times 6$



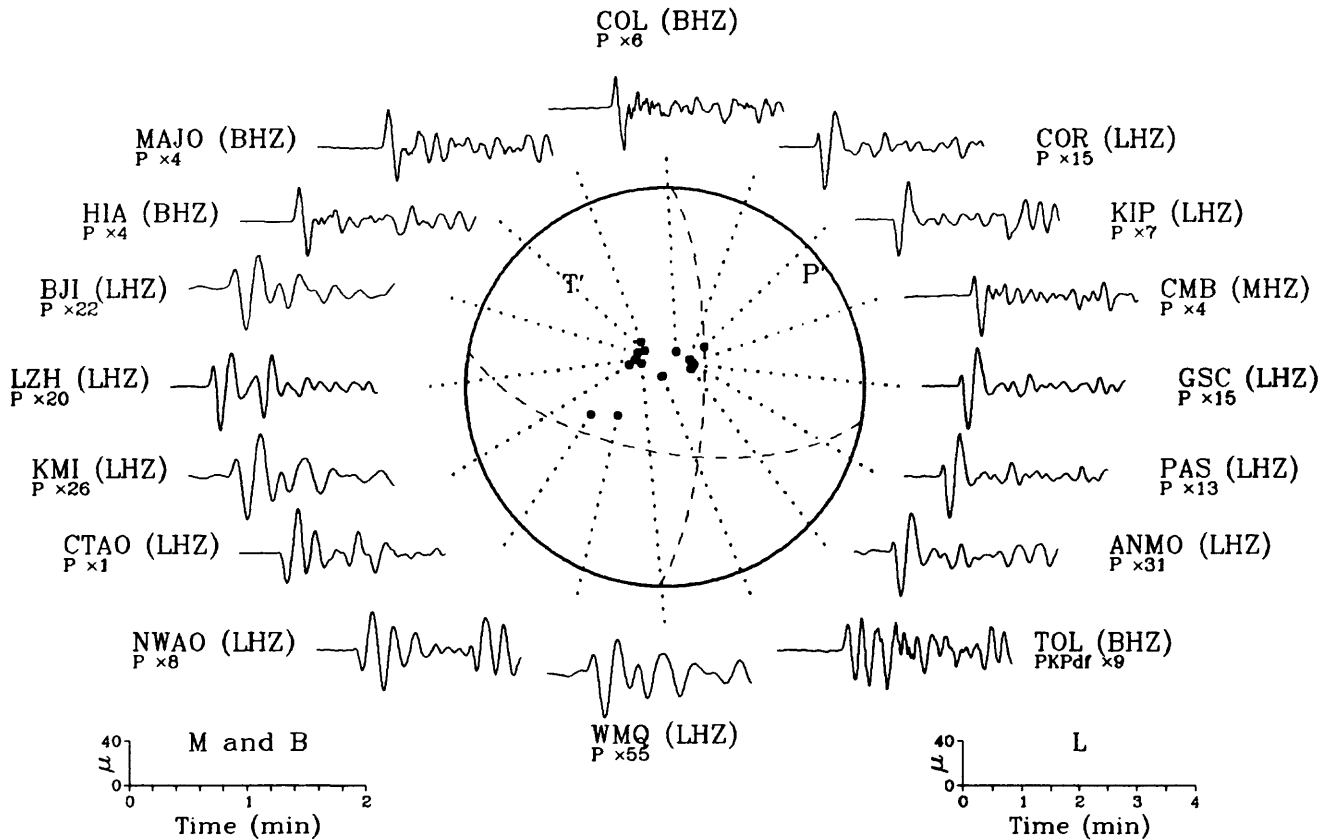
08 August 1991 02:09:44.71
Minahassa Peninsula



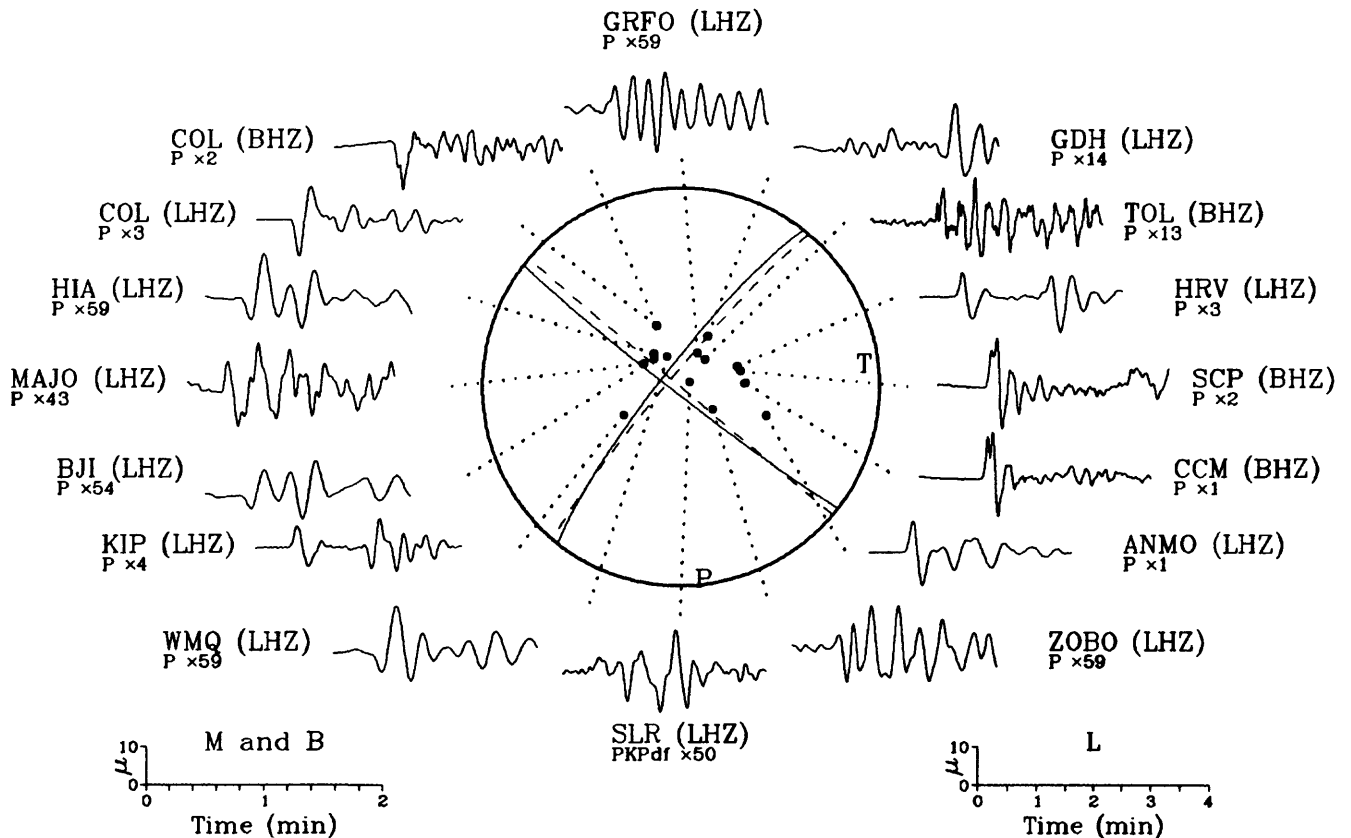
14 August 1991 12:53:26.02
Fox Islands, Aleutian Islands



14 August 1991 19:15:03.67
Vanuatu Islands

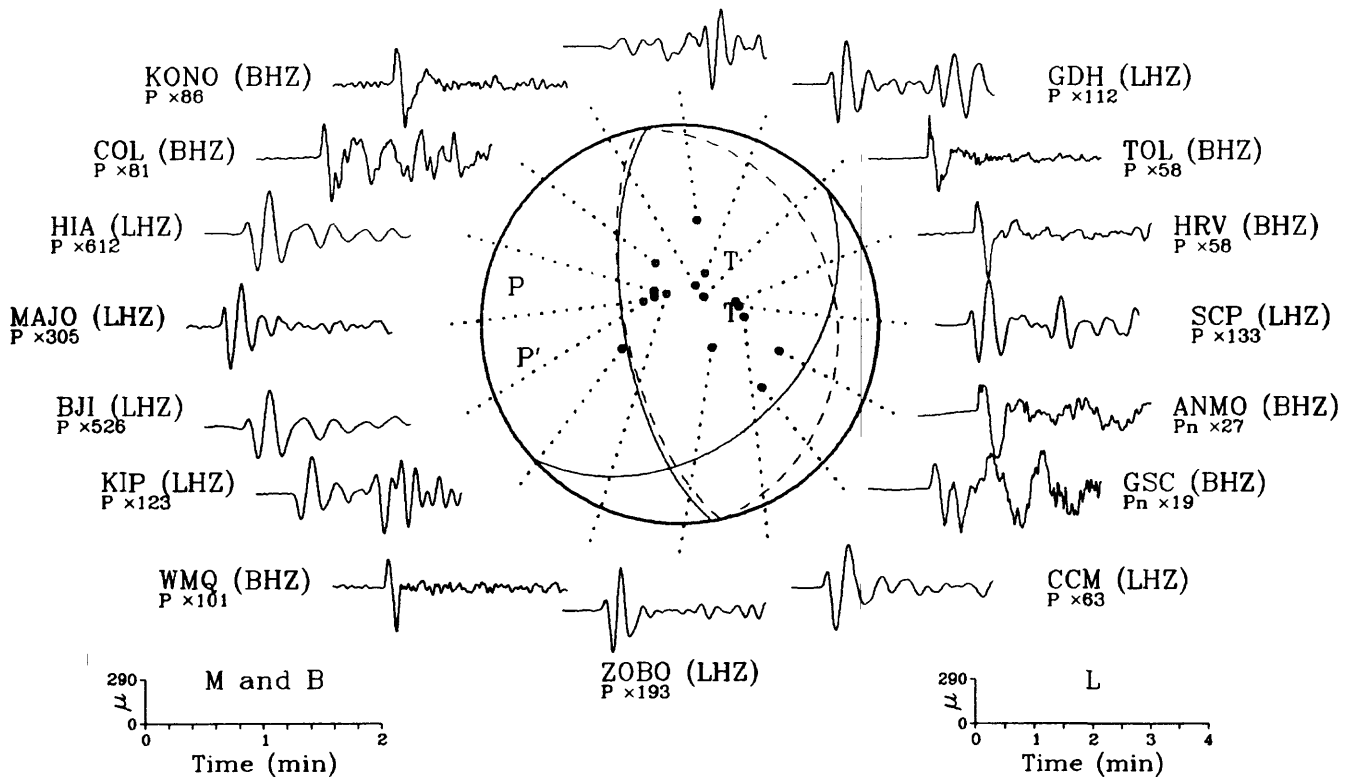


16 August 1991 22:26:17.21
Off Coast of Northern California



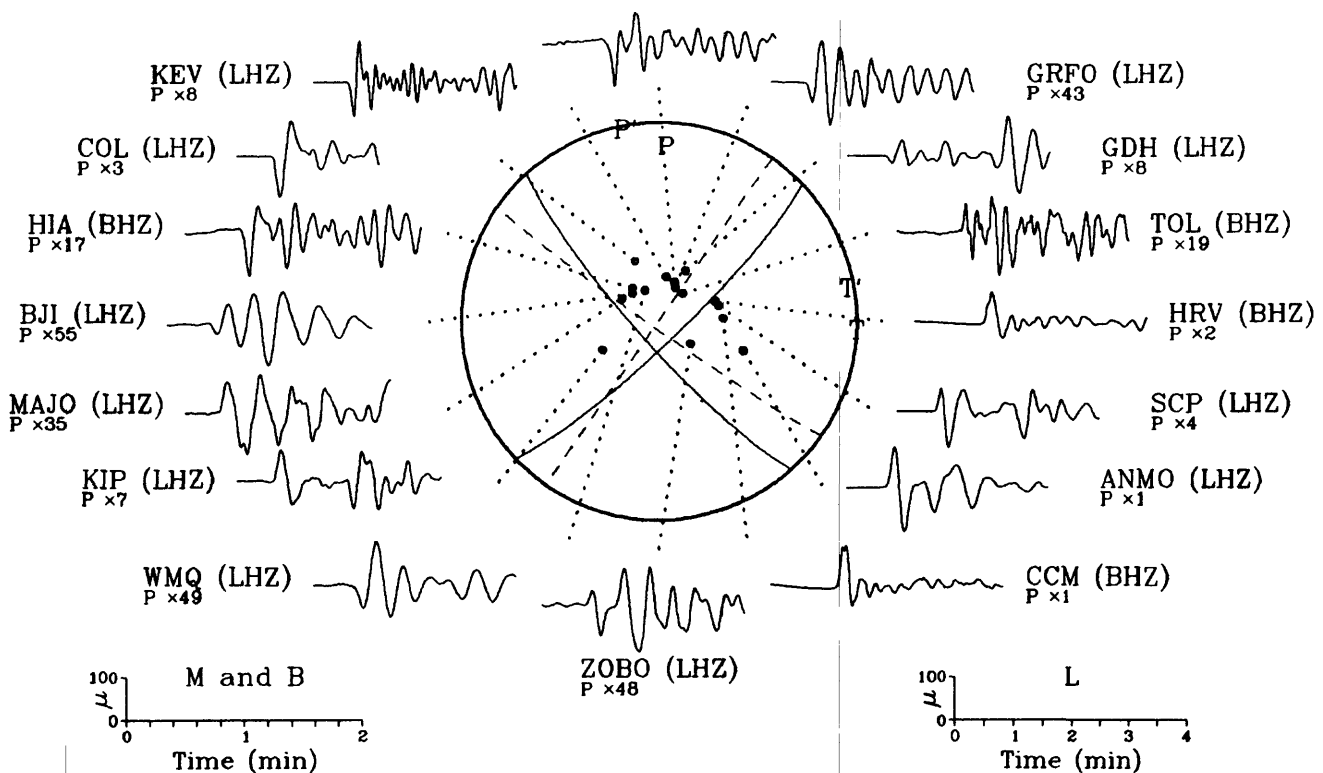
17 August 1991 19:29:40.00
Near Coast of Northern Calif.

COR (LHZ)
Pn x1

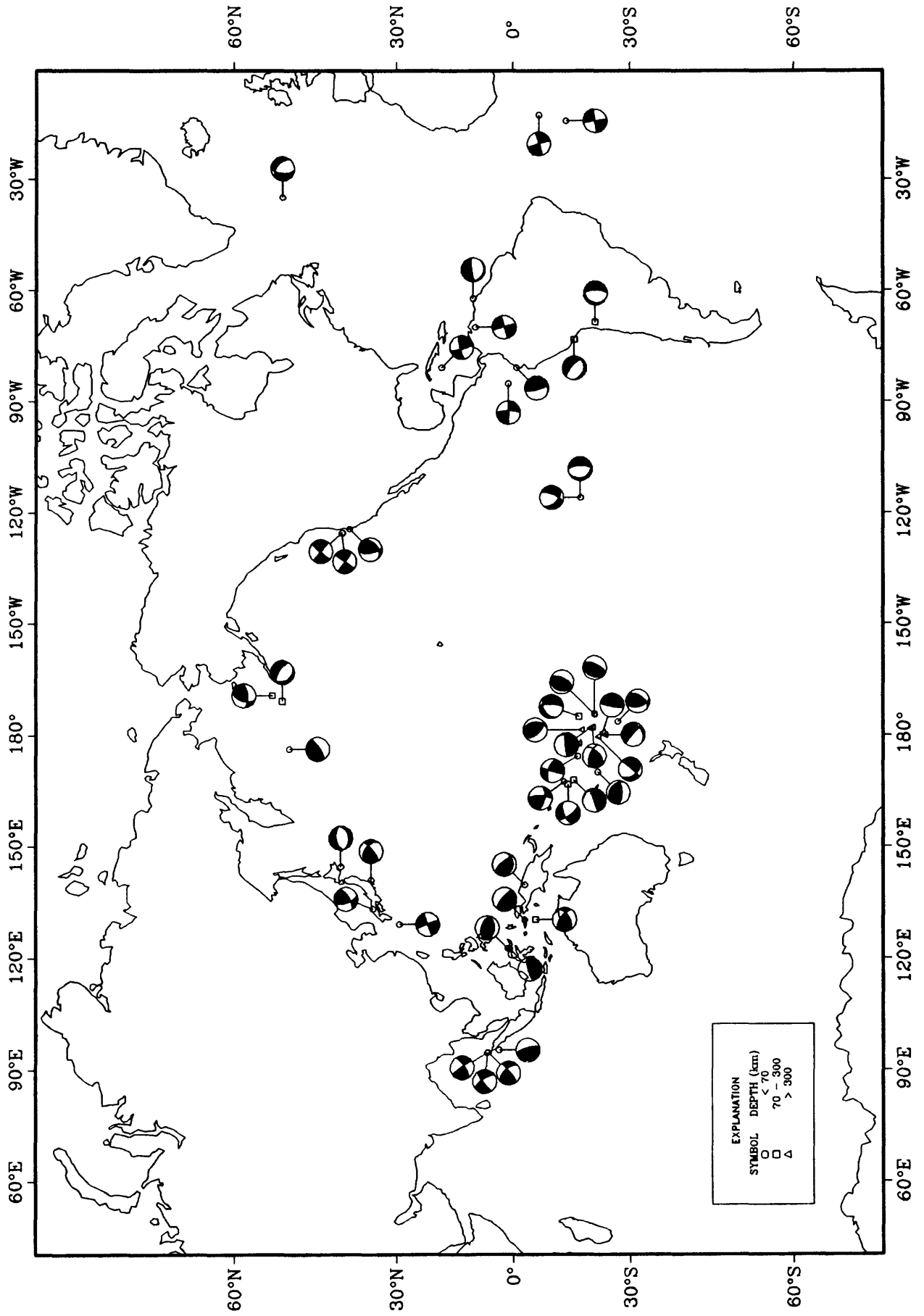


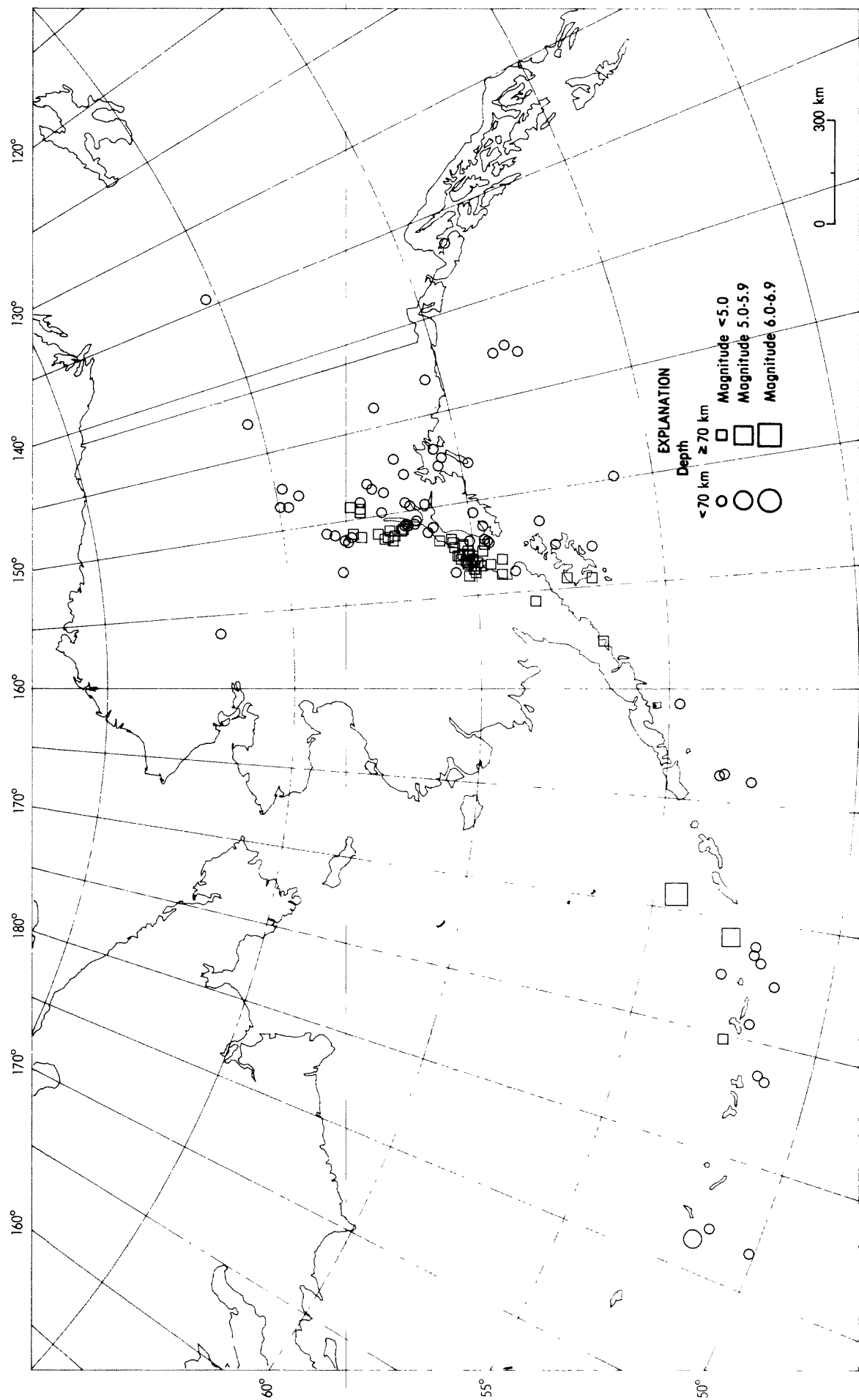
17 August 1991 22:17:14.68
Off Coast of Northern California

KONO (BHZ)
P x11

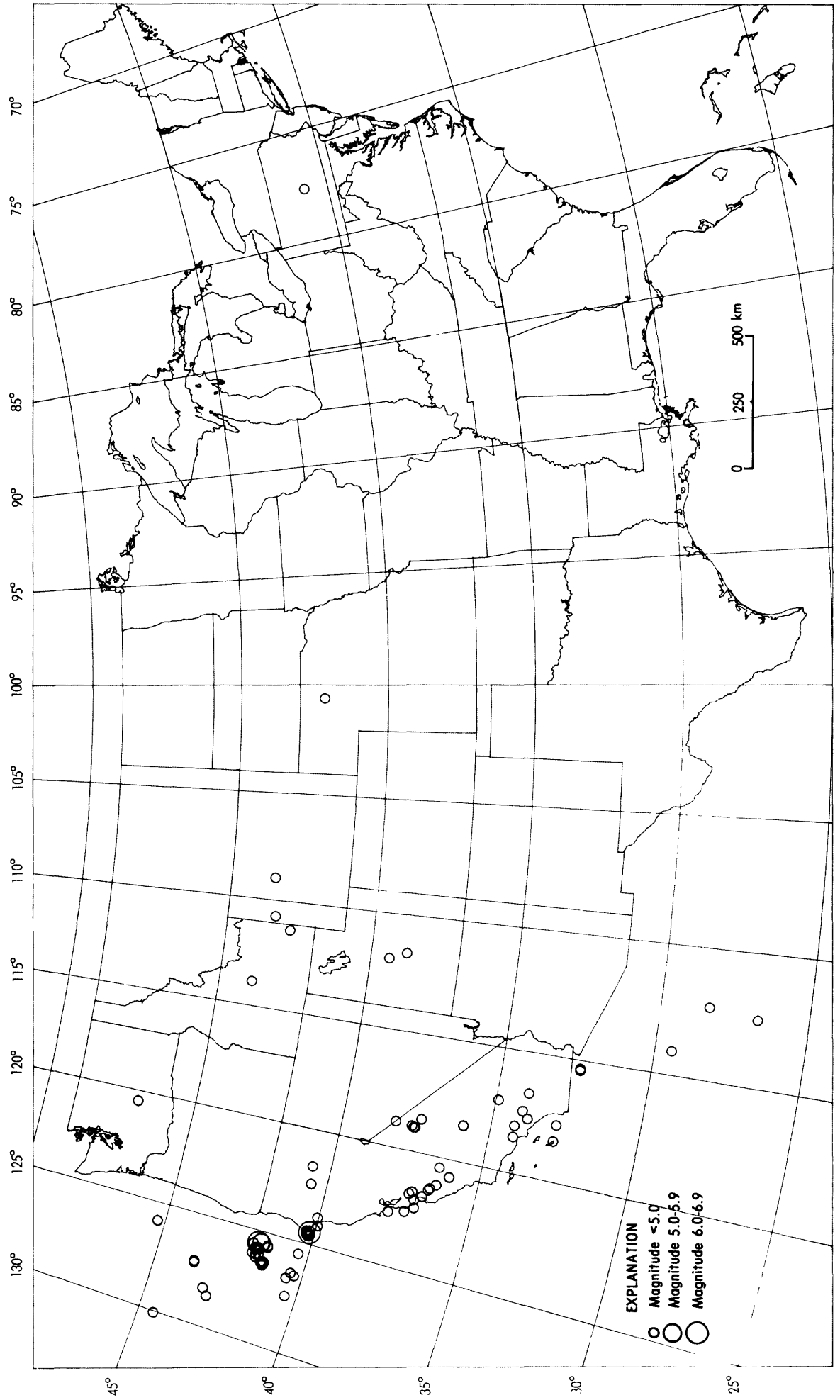


Earthquake Focal Mechanisms for August 1991

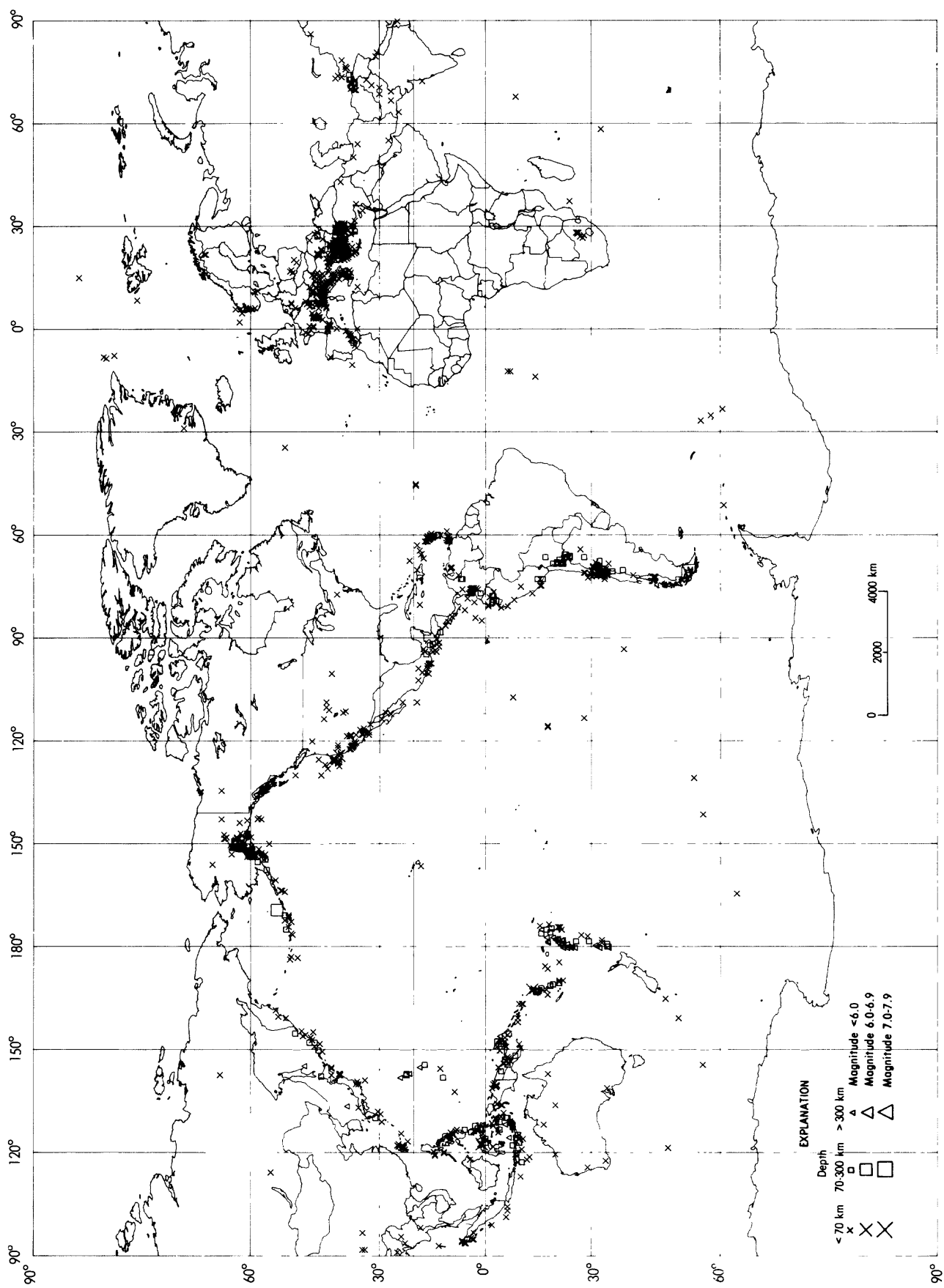




Earthquake epicenters in Alaska and adjacent regions for August, 1991 (C. Stover).



Earthquake epicenters in the conterminous United States and adjacent regions for August, 1991 (C. Stover).



Earthquakes located in August, 1991 (C. Stover).

CHANGE OF ADDRESS FORM

NAME—FIRST, LAST																							
COMPANY NAME OR ADDITIONAL ADDRESS LINE																							
STREET ADDRESS																							
CITY												STATE						ZIP CODE					
PLEASE PRINT OR TYPE												(or) COUNTRY											

Mail this form to: NEW ADDRESS

Superintendent of Documents
Government Printing Office SSOM
Washington, D.C. 20402

Attach last subscription
label here.

SUBSCRIPTION ORDER FORM

SUBSCRIPTION ORDER FORM

ENTER MY SUBSCRIPTION TO:

@ \$ Domestic; @ \$ Foreign.

NAME—FIRST, LAST																							
COMPANY NAME OR ADDITIONAL ADDRESS LINE																							
STREET ADDRESS																							
CITY												STATE						ZIP CODE					
PLEASE PRINT OR TYPE												(or) COUNTRY											

☐ Remittance Enclosed (Make checks payable to Superintendent of Documents)

☐ Charge to my Deposit Account No.

MAIL ORDER FORM TO:
Superintendent of Documents
Government Printing Office
Washington, D.C. 20402



PRELIMINARY DETERMINATION OF EPICENTERS

MONTHLY LISTING

U.S. DEPARTMENT OF THE INTERIOR / GEOLOGICAL SURVEY National Earthquake Information Center

SEPTEMBER 1991

K E Y	DAY	ORIGIN TIME UTC	GEOGRAPHIC COORDINATES	DEPTH	MAGNITUDES	SD	NO. STA USED	REGION, CONTRIBUTED MAGNITUDES AND COMMENTS
		HR MN SEC	LAT LONG		GS MB Msz			
	01	00 07 27.6?	3.80 N 76.96 W	33 N		0.4	4	COLOMBIA. MD 2.6 (UVC).
	01	00 36 20.1?	42.997 N 12.983 E	10 G		1.0	6	CENTRAL ITALY
	01	01 00 46.4	37.059 N 8.791 W	33 N		0.8	18	PORTUGAL. mbLg 3.3 (MDD). MD 3.1 (RBA).
	01	01 16 03.2	45.474 N 26.916 E	35	4.8 4.8	1.2	230	ROMANIA. Felt (V) at Rimnicu Sarat and (IV) at Bucharest. Felt (IV) in northeastern Bulgaria.
	01	02 05 45.6	40.406 N 29.233 E	10 G		0.5	9	TURKEY
	01	02 17 58.0	45.664 N 27.077 E	33 N	3.4	1.0	23	ROMANIA
	01	03 14 07.0?	40.807 N 27.497 E	10 G		0.5	6	TURKEY
	01	03 26 12.9+	26.437 N 96.408 E	33 N		0.6	10	MYANMAR
	01	03 39 51.3	45.504 N 26.951 E	52	3.9	1.1	74	ROMANIA. Felt (IV) at Rimnicu Sarat and (III) at Bucharest.
	01	04 52 30.4+	42.563 N 21.880 E	10 G		0.8	6	NORTHWESTERN BALKAN REGION
	01	05 35 07.1?	45.539 N 26.799 E	10 G		0.7	6	ROMANIA
	01	05 44 40.2	38.407 N 22.198 E	10 G		0.8	26	GREECE. ML 3.3 (ATH). MD 3.4 (THE).
	01	06 51 04.5	78.967 N 3.604 E	10 G	5.2 5.2	1.0	246	GREENLAND SEA
	01	06 51 11.2	37.943 N 29.238 E	10 G		1.2	8	TURKEY
	01	07 18 32.9	3.442 S 134.569 E	33 N	5.0	1.1	37	IRIAN JAYA REGION, INDONESIA
	01	07 21 57.6+	15.142 S 173.289 W	10 G	5.0 5.4	1.0	43	TONGA ISLANDS
	01	08 22 28.3	22.436 S 170.257 E	39 D	5.1 5.3	1.2	126	LOYALTY ISLANDS REGION
	01	09 01 47.4	38.729 N 24.681 E	10 G		1.3	19	AEGEAN SEA ML 3.1 (ATH) MD 3.3 (THE)
	01	10 05 38.3?	57.562 N 138.015 W	10 G			9	OFF COAST OF SOUTHEASTERN ALASKA. <AEIC>. ML 3.1 (AEIC).
	01	10 25 43.0+	43.566 N 128.603 W	10 G		0.4	49	OFF COAST OF OREGON
	01	11 15 13.3+	55.382 S 27.754 W	33 N	5.0	1.0	14	SOUTH SANDWICH ISLANDS REGION
	01	11 19 42.3?	59.929 N 153.162 W	118			66	SOUTHERN ALASKA. <AEIC>.
	01	11 38 45.2?	11.06 N 61.44 W	10 G		0.9	4	WINDWARD ISLANDS. MD 2.5 (TRN)
	01	12 13 09.2?	16.81 S 179.50 W	420 G	4.8	1.0	20	FIJI ISLANDS REGION
	01	12 35 19.8?	40.39 N 23.44 E	10 G		0.6	4	GREECE
	01	12 49 57.1	40.927 N 20.809 E	10 G		0.8	26	GREECE-ALBANIA BORDER REGION. ML 3.2 (SKO). MD 3.4 (THE).
	01	13 06 57.0?	37.995 N 15.115 E	10 G		0.7	6	SICILY
	01	13 21 31.5	45.406 N 26.842 E	28 +	3.0	1.5	16	ROMANIA
	01	13 39 12.9?	45.513 N 26.905 E	10 G		1.4	6	ROMANIA
	01	15 41 26.6?	32.37 S 71.71 W	23		0.4	10	NEAR COAST OF CENTRAL CHILE
	01	15 59 01.1	38.593 N 21.715 E	10 G		1.1	19	GREECE. ML 3.0 (ATH). MD 3.2 (THE).
	01	17 12 58.6?	35.73 S 72.52 W	10 G		0.9	14	NEAR COAST OF CENTRAL CHILE
	01	17 28 28.0	40.840 N 22.999 E	10 G		1.4	7	GREECE. MD 2.1 (THE).
	01	17 48 19.4+	5.883 S 77.066 W	41 +	4.3	1.2	15	NORTHERN PERU
	01	18 37 20.2	45.583 N 26.777 E	10 G	3.0	1.3	6	ROMANIA
	01	19 00 59.7+	30.429 N 69.822 E	33 N		0.5	7	PAKISTAN
	01	19 03 29.9?	11.139 N 61.760 W	10 G		0.2	5	WINDWARD ISLANDS. MD 3.3 (TRN).
	01	19 24 18.6	47.668 N 7.316 E	10 G		0.7	12	SWITZERLAND. ML 2.4 (LDG). 2.0 (STR).
	01	19 46 37.1+	36.613 N 71.378 E	51 ?	4.6	1.2	19	AFGHANISTAN-TAJIKISTAN BORD REG.
	01	20 17 44.5+	38.695 N 119.843 E	10 G	3.6	1.4	5	NORTHEASTERN CHINA. ML 3.9 (BJI).
	01	22 02 32.7?	40.613 N 23.166 E	10 G		0.5	6	GREECE. MD 1.7 (THE).
	01	22 34 33.2	10.821 S 41.252 E	29 D	4.8	1.0	67	NORTHWEST OF MADAGASCAR
	01	22 51 26.2?	36.11 N 22.58 E	33 N	3.6	0.5	9	SOUTHERN GREECE. ML 3.7 (ATH).
	01	23 22 59.8?	40.465 N 14.803 E	10 G		1.4	6	SOUTHERN ITALY
	02	00 27 17.6+	32.854 S 67.631 W	203 +		0.8	17	MENDOZA PROVINCE, ARGENTINA
	02	02 07 21.1?	11.152 N 61.795 W	10 G		0.5	8	WINDWARD ISLANDS. MD 3.2 (TRN).
	02	03 03 42.9	42.292 N 143.019 E	66	5.2	0.9	222	HOKKAIDO, JAPAN REGION
	02	03 48 44.8+	8.629 S 159.005 E	130 +	4.9	1.3	17	SOLOMON ISLANDS
	02	04 16 45.1?	4.04 N 76.31 W	110 G		0.4	5	COLOMBIA MD 2.7 (UVC).
	02	04 38 38.3	42.258 N 143.118 E	72	4.4	1.2	29	HOKKAIDO, JAPAN REGION
	02	05 28 34.9	39.825 N 22.748 E	10 G		0.6	10	GREECE MD 2.9 (THE)
	02	05 51 43.1?	43.70 N 128.40 W	10 G		0.4	43	OFF COAST OF OREGON
	02	05 56 12.1	36.676 N 121.506 W	5 G		1.3	10	CENTRAL CALIFORNIA MD 2.6 (GM)
	02	06 01 40.8+	37.883 N 20.894 E	5 G	3.7	0.7	15	IONIAN SEA ML 3.5 (ATH). MD 3.5 (THE)

02	06 13 08.3%	11 072 N	61 876 W	33 N	0 5	5	WINDWARD ISLANDS MD 2 9 (TRN)
02	07 04 44.4	41.053 N	22.089 E	10 G	0.5	15	NORTHWESTERN BALKAN REGION ML 2.5 (SKO). MD 3 0 (THE).
02	07 47 49.9	48.042 N	6 693 E	10 G	0.4	7	FRANCE. ML 2.0 (STR).
02	10 12 04.7	45.478 N	20 442 E	10 G	1 1	9	NORTHWESTERN BALKAN REGION
02	11 05 50.4	37 440 N	95.402 E	10 G	5.5 4 5	0.9	208 QINGHAI, CHINA
02	12 08 49.1	33.03 S	72 33 W	10 G	0.5	10	OFF COAST OF CENTRAL CHILE
02	12 29 20.4	40.878 N	23.893 E	10 G	0.7	5	GREECE. MD 2.1 (THE).
02	12 35 22.1	11.811 N	62.004 W	160 3.8	0.9	23	WINDWARD ISLANDS. MD 4.1 (TRN)
02	12 46 47.3	32.40 S	71 77 W	10 G	0 3	8	NEAR COAST OF CENTRAL CHILE
02	13 49 04.8	47.90 N	1.92 W	10 G	0.5	5	FRANCE. ML 2 6 (LDG).
02	14 24 54.1	6.096 N	125.540 E	33 N	4 4	1.2	7 MINDANAO, PHILIPPINE ISLANDS
02	14 55 56.3	5.675 N	94.065 E	42 *	4.7	1.3	43 NORTHERN SUMATERA, INDONESIA. Felt (III) at Banda Aceh
02	15 28 50.0	0.240 N	98.475 E	69 ?	4.5	1.4	17 NORTHERN SUMATERA, INDONESIA
02	15 32 55.7	25.174 S	179.820 E	481 4.8	1.0	90	SOUTH OF FIJI ISLANDS
02	16 18 14.0	41.524 N	143.566 E	44 4.5	1.1	38	HOKKAIDO, JAPAN REGION
02	16 23 58.5	39.013 N	23.242 E	10 G	0.3	8	AEGEAN SEA. MD 2.8 (THE).
02	16 35 58.9	32.23 N	115.67 W	5 G	0.8	7	CALIF-BAJA CALIF BORDER REGION. ML 3.0 (GS).
02	16 50 39.5	21.88 S	169.57 E	72 ?	4 0	1.2	16 LOYALTY ISLANDS REGION
02	16 55 36.7	21.55 S	169.80 E	33 N	4 2	1.4	12 LOYALTY ISLANDS REGION
02	17 20 32.4	24.608 N	90.837 E	33 N	4.7	0.6	12 BANGLADESH
02	17 43 22.5	45.781 S	72.333 W	10 G	5.3 5.0	1.2	70 SOUTHERN CHILE
02	18 44 42.2	39.095 N	23.457 E	10 G	0.7	20	AEGEAN SEA. ML 3.1 (ATH). MD 3.1 (THE).
02	19 28 11.2	37.551 N	22.520 E	33 N	1.2	28	SOUTHERN GREECE. ML 3.5 (ATH). MD 3.2 (THE).
02	19 52 20.9	37.618 N	118.914 W	6	7	7	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 3.1 (GM).
02	21 27 08.2	22.13 N	70.53 W	33 N	4.6	1.2	8 NEAR COAST OF VENEZUELA. Felt in northwestern Venezuela
02	22 07 44.3	2.052 S	119.819 E	49 *	4.9 4.2	1.0	51 SULAWESI, INDONESIA
02	22 13 56.0	32.593 S	138.916 E	10 G	1.3	5	NEAR SOUTH COAST OF AUSTRALIA
02	23 03 06.5	43.213 N	5.029 E	10 G	1.5	11	NEAR SOUTH COAST OF FRANCE. ML 2.9 (LDG), 2.2 (STR).
02	23 04 07.7	2.939 N	79.218 W	33 N	0.5	11	SOUTH OF PANAMA
02	23 34 07.8	21.50 S	170.26 E	33 N	4.7	1.3	6 LOYALTY ISLANDS REGION
02	23 55 39.4	4.06 N	77.14 W	33 N	0.3	5	NEAR WEST COAST OF COLOMBIA. MD 2.7 (UVC).
03	00 33 37.2	37.808 N	14.607 E	33 N	0.7	7	SICILY
03	01 01 23.8	44.581 N	8.346 E	10 G	0.2	5	NORTHERN ITALY. ML 1.9 (GEN).
03	01 56 10.0	4.44 N	75.75 W	110 G	0.3	5	COLOMBIA. MD 2.9 (UVC).
03	01 59 27.3	9.291 S	157.918 E	33 N	4.2	0.8	9 SOLOMON ISLANDS
03	02 27 35.4	41.859 N	23.263 E	10 G	0.3	5	GREECE-BULGARIA BORDER REGION. MD 2.3 (THE).
03	02 44 41.7	45.04 N	2.89 E	10 G	1.2	4	FRANCE. ML 2.1 (LDG).
03	03 05 35.1	5.39 N	126.11 E	33 N	4.8	1.1	9 MINDANAO, PHILIPPINE ISLANDS
03	04 20 28.6	39.260 N	28.833 E	10 G	0.4	13	TURKEY
03	04 38 39.3	36.198 N	31.807 E	113 4.3	1.0	42	TURKEY
03	05 52 45.3	45.274 N	14.693 E	10 G	1.4	11	NORTHWESTERN BALKAN REGION. ML 2.9 (ZAG). MD 3.3 (LJU), 2.9 (TRI). Felt at Crikvenica.
03	06 38 42.8	5.036 S	144.837 E	64 ?	5 0	1.1	17 NEW GUINEA, PAPUA NEW GUINEA
03	06 59 43.2	23.952 S	66.857 W	183 5 0	1.1	77	JUJUY PROVINCE, ARGENTINA
03	08 22 51.3	44.37 N	7.78 E	10 G	0.4	5	NORTHERN ITALY. ML 2 3 (LDG).
f 03	08 44 48.6	33.649 N	138.778 E	27 G	5.9 6.4	1.1	332 SOUTH OF HONSHU, JAPAN. Ms 6.0 (BRK). Felt (IV JMA) on Miyake-jima, (III JMA) at Yokkaichi and Tsu; (II JMA) at Yokohama and Osaka, (I JMA) at Tokyo and Nagaya. Depth from broadband displacement seismograms.
03	08 51 05.1	36.676 N	121.461 W	5	9	9	CENTRAL CALIFORNIA <GM-P> MD 2.1 (GM).
a 03	09 05 28.3	17.910 S	116.001 W	9 G	6.0 5 9	1.0	384 SOUTHERN EAST PACIFIC RISE Ma=1.3*10**19 Nm (PPT). Depth from broadband displacement seismograms.
03	09 08 56.7	33.580 N	138.764 E	13 4.2	1.0	10	SOUTH OF HONSHU, JAPAN
03	10 19 32.4	33.611 N	138.901 E	11 4.0	0.6	11	SOUTH OF HONSHU, JAPAN
03	11 17 40.2	61.666 N	2.771 E	10 G	0.5	9	NORWEGIAN SEA. MD 2.3 (BER).
f 03	11 56 16.2	17.921 S	115.992 W	11 G	5.8 5.9	1.0	343 SOUTHERN EAST PACIFIC RISE. Ms 5.9 (BRK). Ma=1.0*10**19 Nm (PPT). Depth from broadband displacement seismograms.
03	12 42 43.6	44.783 N	22.541 E	10 G	1.4	8	ROMANIA
03	13 09 34.3	53.209 S	160.070 E	10 G	4.6	1.5	12 MACQUARIE ISLANDS REGION
03	13 19 43.7	13.663 N	125.107 E	47 *	4.3	1.0	22 PHILIPPINE ISLANDS REGION
03	13 27 22.9	15.550 S	13.204 W	10 G	4.9	0.8	24 SOUTHERN MID-ATLANTIC RIDGE
03	14 42 54.8	32.416 S	69.736 W	33 N	1.5	9	MENDOZA PROVINCE, ARGENTINA
03	14 59 03.2	33.243 N	138.761 E	10 G	3.7	1.2	11 SOUTH OF HONSHU, JAPAN
03	15 35 07.0	58.577 N	143.658 W	10 G	30	30	GULF OF ALASKA. <AEIC>. ML 2.8 (AEIC).
03	15 42 12.2	32.895 S	71.552 W	10 G	1.1	11	NEAR COAST OF CENTRAL CHILE
03	16 30 50.0	43.019 N	0.352 E	10 G	0.6	11	PYRENEES ML 1.3 (STR).
03	17 16 40.0	45.674 N	5.639 E	10 G	0.7	6	FRANCE. ML 2.2 (LDG).
03	17 26 55.9	32.931 S	71.520 W	10 G	1.2	11	NEAR COAST OF CENTRAL CHILE
03	17 33 08.3	20.73 S	177.94 W	563 ?	4.8	1.0	23 FIJI ISLANDS REGION
03	19 05 47.8	3.880 S	139.946 E	51 ?	4.9	0.9	14 IRIAN JAYA, INDONESIA
03	19 29 54.4	33.768 N	139.022 E	10 G	4.4	1.3	28 SOUTH OF HONSHU, JAPAN
03	19 37 07.6	40.662 N	15.272 E	71 *	0.9	8	SOUTHERN ITALY
03	19 45 25.6	21.180 S	178.910 W	600 ?	4.7	1.1	37 FIJI ISLANDS REGION
03	19 50 31.2	4.098 S	129.738 E	33 N	5.0	1.1	34 BANDA SEA
03	19 59 41.2	21.70 S	67.71 W	221 ?	1.5	9	CHILE-BOLIVIA BORDER REGION
03	20 26 05.3	3.912 N	76.414 W	33 N	0.4	5	COLOMBIA. MD 2.4 (UVC).
03	20 39 36.4	45.14 N	2.81 E	5 G	1.1	4	FRANCE. ML 2.0 (LDG).
03	20 45 08.7	0.03 S	19.91 W	10 G	4.5 4.0	0.8	15 CENTRAL MID-ATLANTIC RIDGE
03	20 48 23.6	44.426 N	14.682 E	10 G	0.4	5	ADRIATIC SEA. MD 2.7 (TRI).
03	22 05 16.5	37.958 N	20.881 E	10 G	3.8	1.2	19 IONIAN SEA. ML 3.6 (ATH).
03	22 54 28.3	47.674 N	6.410 E	10 G	1.2	15	FRANCE. ML 2.6 (LDG), 2.2 (STR).
03	23 03 01.9	20.94 S	175.43 W	76 D	4.7	0.7	10 TONGA ISLANDS
03	23 18 26.2	47.627 N	6.322 E	10 G	0.3	9	FRANCE. ML 2.0 (LDG), 1.7 (STR).
04	00 08 31.2	50.993 N	2.559 E	10 G	0.7	16	FRANCE ML 2.5 (LDG).
04	00 15 23.7	45.656 N	26.981 E	33 N	0.6	5	ROMANIA
04	01 49 51.3	1.621 N	126.899 E	96 4.9	0.8	41	NORTHERN MOLUCCA SEA
04	02 33 42.1	18.76 N	64.72 W	10 G	0.2	6	VIRGIN ISLANDS
04	03 21 14.5	43.03 N	13.71 E	10 G	0.6	5	CENTRAL ITALY
04	04 32 29.8	4.354 N	76.302 W	10 G	0.8	8	COLOMBIA MD 4 6 (UVC)
04	05 37 51.8	40.092 N	29.004 E	10 G	1.2	9	TURKEY
04	05 41 30.0	11.496 N	61.584 W	33 N	1.5	6	WINDWARD ISLANDS

04	07 18 40.3%	39 020 N	15 681 E	26	0 4	9	SOUTHERN ITALY
04	07 48 31.7?	2.69 N	78 30 W	33 N	0 1	5	NEAR WEST COAST OF COLOMBIA MD 4.1 (UVC).
04	07 57 21.7?	4 47 N	76 12 W	33 N	0 5	5	COLOMBIA. MD 2.7 (UVC).
04	08 32 33.5	10.746 N	92 843 E	33 N	5 1	1.4	53 ANDAMAN ISLANDS. INDIA
04	08 43 19.7%	62 974 N	148 264 W	67		34	CENTRAL ALASKA <AEIC>
04	08 57 06.0*	21.601 S	173.997 W	38 D	5 0	1.5	24 TONGA ISLANDS
04	08 58 14.7?	11.19 N	62.29 W	33 N		0.6	5 WINDWARD ISLANDS
04	10 11 22.1?	11.29 S	74.31 W	33 N	4 0	0.4	5 CENTRAL PERU
04	10 55 30.3	14.674 N	60.281 W	9	4 0	1.2	29 WINDWARD ISLANDS. ML 4.2 (FDF). Felt (II) on Martinique
04	11 41 20.7*	33.148 S	69.693 W	28 *		1.7	10 CHILE-ARGENTINA BORDER REGION
04	11 47 52.7	46.985 N	9.530 E	10 G		1.4	6 SWITZERLAND. ML 2.5 (VIE).
04	12 59 46.2	23.638 N	121.367 E	10 G	4 4	1.2	22 TAIWAN
04	13 05 40.5%	59.312 N	153.867 W	128		44	SOUTHERN ALASKA. <AEIC>.
04	13 08 06.7	50.932 N	6.675 E	5 G		0.6	9 GERMANY. ML 2.1 (BNS). Felt (V) in the Bergheim area.
04	14 28 30.8*	28.029 N	55.674 E	29 *	4 1	1.3	14 SOUTHERN IRAN
04	16 25 47.0%	37.669 N	14.811 E	10 G		1.2	10 SICILY
04	16 31 29.4%	37.680 N	14.845 E	10 G		0.9	7 SICILY
04	16 48 16.7%	37.663 N	14.832 E	10 G		0.6	8 SICILY
04	17 05 16.4%	19.203 N	155.626 W	10		49	HAWAII. <HVO-P>. MD 4.4 (HVO). Felt at Hakalau, Kukuiahele, Ocean View Estates, Pahala and South Point.
04	17 05 37.2%	37.981 N	14.801 E	10 G		0.6	5 SICILY
04	17 06 51.9%	16.066 N	61.083 W	32 *		0.1	8 LEEWARD ISLANDS. ML 2.1 (FDF).
04	17 06 53.2?	45.71 N	26.37 E	197 ?		0.8	9 ROMANIA
04	17 11 48.7%	37.776 N	14.795 E	10 G		0.8	5 SICILY
04	18 13 15.7	44.848 N	22 319 E	33 N		1.4	21 ROMANIA. MG 3.3 (BEO).
04	19 33 09.8%	38.907 N	29.821 E	10 G		0.3	5 TURKEY
04	20 42 18.2%	33.043 N	108.014 W	10 G		11	NEW MEXICO. <SNM>. MD 2.3 (SNM). Felt in the Silver City area.
04	21 07 28.2%	33 022 N	108.030 W	10 G		11	NEW MEXICO. <SNM>. MD 2.4 (SNM). Felt in the Silver City area.
04	22 14 47.7	21.606 N	121.236 E	10 G	4 5 3 9	1.3	26 TAIWAN REGION
04	22 27 21.7	15.204 N	120.404 E	21 D	5 6 5 1	1.0	270 LUZON, PHILIPPINE ISLANDS. Felt (III RF) at Manila, (II RF) at Makati and (I RF) at Quezon City. Also felt strongly at Angeles, Clark Air Force Base and Parac.
05	00 46 44.1	44.870 N	6.675 E	10 G		0.3	12 FRANCE ML 2.3 (GEN).
05	00 58 10.4%	37.052 N	5.230 W	10 G		0.6	8 SPAIN. mbLg 2.8 (MDD).
05	01 09 47.5?	19.63 S	68.27 W	33 N		0.7	5 CHILE-BOLIVIA BORDER REGION
05	05 24 54.2*	53.419 S	160.323 E	33 N	4 2	0.9	11 MACQUARIE ISLANDS REGION
05	06 09 48.3?	15.15 S	31.35 E	10 G		1.1	5 MOZAMBIQUE. mbLg 3.4 (BUL).
05	06 21 27.3?	43.75 N	13 26 E	10 G		1 0	6 CENTRAL ITALY
05	06 34 02.8?	46.03 S	166.38 E	33 N	4 0	1.0	5 OFF W. COAST OF S. ISLAND, N Z.
05	07 17 29.9	7.337 S	128.521 E	188 *	4 7	1 1	19 BANDA SEA
05	07 31 26.9	20.051 N	72.138 W	33 N		0.7	13 HAITI REGION
05	07 33 05.3%	60.564 N	5 053 E	10 G		0.3	6 SOUTHERN NORWAY. MD 1.7 (BER).
05	08 41 00 0?	41 143 N	28.967 E	10 G		0.4	8 TURKEY
05	09 41 47.0?	2.53 N	153.99 E	33 N	4 5	0.4	5 E. CAROLINE ISLANDS, MICRONESIA
05	10 33 57.4	11 590 S	166 536 E	47 D	5 0 4 6	0.8	62 SANTA CRUZ ISLANDS
05	10 59 24.9%	39.059 N	15.603 E	10 G		0.9	7 SOUTHERN ITALY
05	12 08 17.5*	37.625 N	20.370 E	10 G	3 9	1.5	15 IONIAN SEA. ML 3.7 (ATH).
05	12 12 07.4?	19.44 N	67.35 W	10 G		0.4	6 MONA PASSAGE
05	13 36 01.1?	31.77 S	70.08 W	145 ?		0.4	10 CHILE-ARGENTINA BORDER REGION
05	14 06 31 7?	34.10 S	69.76 W	10 G		0.6	5 CHILE-ARGENTINA BORDER REGION
05	14 09 12.8	13 257 N	55 291 E	10 G	4 7	1.1	35 SOCOTRA REGION
05	15 03 17 7*	38 352 N	38 221 E	10 G		1 0	6 TURKEY
05	15 40 55.3?	32.25 S	71.95 W	33 N		0.5	10 NEAR COAST OF CENTRAL CHILE
05	16 24 38 6	39.433 N	20 266 E	5 G		1.0	18 GREECE-ALBANIA BORDER REGION. MD 3.4 (THE).
05	16 33 07.2	43.919 N	7.215 E	10 G		0.3	9 NEAR SOUTH COAST OF FRANCE. ML 2.2 (GEN).
05	16 45 34.3	52.105 N	169 410 W	33 N	4 7 3 9	1.0	51 FOX ISLANDS, ALEUTIAN ISLANDS
05	17 13 35.0?	20.99 S	68 90 W	33 N		1.0	5 CHILE-BOLIVIA BORDER REGION
05	19 23 04.8	38.847 N	41.417 E	10 G	4 3	1.3	31 TURKEY
05	20 30 44.7*	13.911 N	124 019 E	61 *	4 9	1.0	13 LUZON, PHILIPPINE ISLANDS
05	20 55 17.4*	41.076 N	20 059 E	5 G		1.3	7 ALBANIA. ML 2.4 (SKO). MD 3.2 (ATH).
05	21 25 58.2?	2.84 N	99.83 E	33 N	3 3	0.6	6 NORTHERN SUMATERA, INDONESIA
05	21 36 29.6	20.377 S	178.516 W	572	4 8	1.0	41 FIJI ISLANDS REGION
05	21 56 53.6%	38.730 N	0.610 W	10 G		0.9	6 SPAIN. mbLg 3.1 (MDD).
05	22 07 07.9*	37.244 N	28.033 E	10 G		1.0	5 TURKEY
05	22 16 19.7%	65.908 N	150.538 W	22		11	NORTHERN ALASKA. <AEIC>. ML 2.7 (AEIC).
05	22 28 31.0%	44.401 N	7.294 E	10 G		0.8	9 NORTHERN ITALY. ML 2.3 (GEN).
05	22 53 13.9?	4.71 N	76.96 W	33 N		0.9	5 COLOMBIA. MD 2.7 (UVC).
05	23 04 06.5*	36.382 N	70.087 E	33 N	3 9	0.8	8 HINDU KUSH REGION, AFGHANISTAN
05	23 19 09.3	42.624 N	13.488 E	10 G		0.9	15 CENTRAL ITALY
06	00 00 24.6*	54.686 N	163.682 W	33 N	4 6	1.1	42 UNIMAK ISLAND REGION. ML 4.4 (PMR).
06	01 42 36.5?	34.45 S	70.39 W	10 G		0.1	4 CHILE-ARGENTINA BORDER REGION
06	01 43 48.2%	32.924 N	108.029 W	10 G		13	NEW MEXICO. <SNM>. MD 2.8 (SNM). Felt in the Silver City area.
06	02 27 39.9?	10.12 N	62.04 W	10 G		0.6	7 NEAR COAST OF VENEZUELA
06	02 38 10.5	16 423 S	173.782 W	33 N	4 9	0 9	41 TONGA ISLANDS
06	03 23 07.3	45.649 N	6.814 E	10		0.5	19 FRANCE. ML 2.4 (LDG). 2.4 (GEN).
06	04 01 53.3	0 055 N	78.423 W	10 G		1.0	15 COLOMBIA-ECUADOR BORDER REGION MD 4 2 (QUI)
06	04 44 41.7	44.573 N	6.921 E	10		0.6	20 FRANCE ML 2.3 (LDG). 2.3 (GEN).
06	05 09 11.0*	1.189 N	122.483 E	33 N	4 7 3 7	1.0	15 MINAHASSA PENINSULA, SULAWESI
06	06 12 57 2*	19 412 S	176.113 W	33 N	4 9	0 8	7 FIJI ISLANDS REGION
06	07 28 04.4?	59.86 N	6.17 E	10 G		0.2	4 SOUTHERN NORWAY. MD 1.6 (BER)
06	07 38 25.3?	32 65 S	71.76 W	20 *		0.4	9 NEAR COAST OF CENTRAL CHILE
06	07 42 48 8%	43.905 N	7.987 E	10 G		0.6	6 NEAR SOUTH COAST OF FRANCE. ML 2 1 (GEN).
06	08 11 38.1%	2.265 N	76 506 W	10 G		0.5	8 COLOMBIA MD 4 2 (UVC).
06	09 13 00.3	39 345 N	20 502 E	10 G		0.9	12 GREECE-ALBANIA BORDER REGION. MD 2 8 (THE)
06	09 33 05 7%	38 248 N	30.462 E	10 G		0.6	6 TURKEY
06	09 57 42 0%	18.298 N	77.174 W	10 G		1 2	5 JAMAICA REGION MD 2 5 (HOJ)
06	09 59 07.7	13.978 N	89.812 W	10 G		0 9	6 EL SALVADOR. Felt (II) at Ahuachopon.
06	11 21 05 1*	2 865 S	129.698 E	10 G	4 4	1 5	7 SERAM, INDONESIA
06	11 46 06 8	6 124 S	130 622 E	146 *	5 3	1 1	68 BANDA SEA

06	12	08	56.5	3.058	S	133.940	E	50	G	4.8	4.7	1.2	44	IRIAN JAYA REGION, INDONESIA
06	12	17	23.4?	34.15	S	70.02	W	10	G			0.3	5	CHILE-ARGENTINA BORDER REGION
06	12	19	39.7?	43.44	N	23.86	E	10	G			1.4	8	BULGARIA, MD 2.5 (THE).
06	12	34	28.1?	37.209	N	2.362	W	10	G			0.4	5	SPAIN
06	12	51	05.0*	3.011	S	129.196	E	76	?	4.3		1.3	12	SERAM, INDONESIA
06	13	14	50.0	0.301	S	132.775	E	20	D	5.1	4.3	1.0	52	IRIAN JAYA REGION, INDONESIA
06	14	51	49.5?	43.143	N	10.780	E	10	G			0.3	6	CENTRAL ITALY
06	14	52	27.3?	4.57	N	76.68	W	33	N			0.5	5	COLOMBIA, MD 2.8 (UVC).
06	15	00	25.8*	34.060	S	178.922	W	10	G	4.9		1.3	21	SOUTH OF KERMADEC ISLANDS
06	15	49	48.8	6.753	N	73.038	W	162		4.9		1.0	61	NORTHERN COLOMBIA
06	15	59	16.1	39.050	N	15.500	E	12				0.7	19	SOUTHERN ITALY, ML 2.8 (ROM).
06	16	03	46.1?	39.036	N	15.712	E	27				1.0	9	SOUTHERN ITALY
06	16	08	34.2*	5.341	N	32.155	E	10	G	4.8	4.9	1.5	25	SUDAN
06	16	17	16.9?	39.333	N	21.781	E	10	G			0.7	5	GREECE, MD 2.6 (THE).
06	16	30	19.3?	39.016	N	15.691	E	10	G			1.0	9	SOUTHERN ITALY
06	16	51	01.0	10.084	S	161.426	E	95	D	4.7		1.0	30	SOLOMON ISLANDS
06	17	01	26.2*	37.056	N	49.644	E	33	N			1.0	7	CASPIAN SEA
06	17	29	49.3	43.362	N	7.281	E	10	G			0.6	21	NEAR SOUTH COAST OF FRANCE, ML 2.6 (LDG), 2.2 (GEN)
06	18	20	25.0?	44.40	N	7.38	E	10	G			0.3	4	NORTHERN ITALY, ML 1.6 (GEN).
06	19	45	33.5?	11.112	N	61.570	W	10	G			0.6	5	WINDWARD ISLANDS
06	20	25	27.5*	50.234	N	18.903	E	10	G			1.3	5	POLAND
06	20	41	39.4	29.912	N	141.409	E	33	N	4.6		0.8	16	SOUTH OF HONSHU, JAPAN
06	20	50	38.0?	38.975	N	14.495	E	10	G			1.3	6	SICILY
06	21	02	33.8*	19.765	S	167.820	E	33	N	4.7		1.1	22	VANUATU ISLANDS REGION
06	21	59	19.2?	13.853	N	61.191	W	10	G			0.4	5	WINDWARD ISLANDS
06	22	02	01.5	39.354	N	21.799	E	13				0.9	31	GREECE, MD 3.4 (THE), 3.3 (ATH).
06	22	39	01.6*	19.574	S	175.533	W	255	*	4.9		1.0	25	TONGA ISLANDS
06	23	16	35.8?	38.972	N	15.619	E	10	G			0.8	8	SICILY
06	23	17	51.6	50.008	N	12.102	E	10	G			0.9	7	GERMANY, ML 3.1 (VKA), 2.5 (GRF).
06	23	41	05.9*	34.850	N	119.240	W	12					8	SOUTHERN CALIFORNIA, <PAS-P>, ML 3.2 (PAS).
06	23	56	52.9	44.592	N	7.024	E	10	G			0.4	33	NORTHERN ITALY, ML 2.8 (GEN), 2.8 (LDG).
07	00	07	17.0?	43.136	N	10.765	E	10	G			0.4	6	CENTRAL ITALY
07	00	52	01.2?	44.576	N	6.962	E	10	G			0.3	5	FRANCE, ML 1.8 (GEN).
07	01	24	51.1	44.600	N	7.018	E	9				0.4	24	NORTHERN ITALY, ML 2.4 (GEN), 2.2 (LDG).
07	01	25	49.2?	16.951	N	61.634	W	33	N			0.3	6	LEEWARD ISLANDS, ML 2.1 (FDF).
07	01	35	19.4?	39.008	N	15.563	E	10	G			0.5	5	SOUTHERN ITALY
07	02	10	29.9?	40.878	N	22.952	E	10	G			0.2	5	GREECE, MD 1.5 (THE).
07	02	28	34.5*	40.400	N	124.360	W	31					12	NEAR COAST OF NORTHERN CALIF. <BRK>, ML 3.4 (BRK).
07	02	57	07.2?	44.242	N	10.202	E	10	G			0.3	6	NORTHERN ITALY
07	03	00	24.3	24.252	N	93.976	E	33	N	4.9		1.3	28	MYANMAR-INDIA BORDER REGION
07	04	14	25.4	7.220	S	123.769	E	604		5.1		0.8	79	BANDA SEA
07	04	51	02.0?	15.20	S	177.45	W	394	?	4.4		1.3	17	FIJI ISLANDS REGION
07	05	11	23.0	47.218	N	144.770	E	347	*	4.7		0.8	80	SEA OF OKHOTSK
07	05	11	51.2*	32.030	N	116.370	W	6	G				8	CALIF.-BAJA CALIF. BORDER REGION, <PAS-P>, ML 3.7 (PAS)
07	05	14	30.7?	41.89	N	125.85	W	10	G			0.4	44	OFF COAST OF NORTHERN CALIFORNIA
07	05	23	07.4*	59.242	N	152.247	W	66					32	SOUTHERN ALASKA, <AEIC>.
07	05	39	19.5	37.979	N	15.519	E	27		4.5		1.2	44	SICILY
07	07	06	17.5?	3.32	S	138.71	E	33	N	4.4		0.7	5	IRIAN JAYA, INDONESIA
07	07	28	50.2	45.507	N	20.987	E	10	G			0.8	14	NORTHWESTERN BALKAN REGION, MG 3.5 (BEO).
07	08	00	11.2?	9.05	S	124.39	E	94	?	4.7		1.4	10	TIMOR REGION, INDONESIA
07	08	27	25.7?	48.17	N	1.89	W	10	G			0.8	5	FRANCE, ML 2.2 (LDG).
07	08	36	43.9*	62.999	N	149.135	W	78					61	CENTRAL ALASKA, <AEIC>.
07	10	02	27.0?	18.79	N	65.36	W	28	*			0.2	7	PUERTO RICO REGION
07	10	26	14.4?	39.116	N	27.587	E	33	N			0.7	5	TURKEY
07	10	40	20.2	1.644	N	126.312	E	37	D	5.0	4.1	1.1	59	NORTHERN MOLUCCA SEA
07	11	06	39.5*	0.269	S	124.609	E	33	N	4.5		0.9	12	SOUTHERN MOLUCCA SEA
07	11	23	40.6	1.762	N	122.900	E	35	D	4.5	4.1	1.0	27	MINAHASSA PENINSULA, SULAWESI
07	12	13	53.4*	59.193	N	152.874	W	76					67	SOUTHERN ALASKA, <AEIC>.
07	12	28	15.4?	39.340	N	16.282	E	10	G			0.6	8	SOUTHERN ITALY
07	12	36	38.6	18.800	S	169.156	E	246		4.6		0.9	23	VANUATU ISLANDS
07	14	00	07.6	43.690	N	11.883	E	17				1.0	61	CENTRAL ITALY, ML 3.3 (LDG), 3.0 (GEN), 2.9 (ROM).
07	14	19	19.1*	36.176	N	140.173	E	113		4.2		1.3	23	NEAR EAST COAST OF HONSHU, JAPAN
07	14	32	56.4	24.103	S	179.836	W	534	D	5.3		1.1	150	SOUTH OF FIJI ISLANDS
07	17	45	04.4?	3.70	N	77.05	W	33	N			0.2	5	NEAR WEST COAST OF COLOMBIA, MD 2.6 (UVC).
07	18	09	21.2	46.229	N	7.895	E	10	G			1.0	72	SWITZERLAND, ML 3.2 (LDG), 2.8 (STR).
07	18	56	47.7*	6.844	S	129.999	E	33	N	4.1		0.9	6	BANDA SEA
07	19	44	33.5?	46.75	N	4.58	E	10	G			0.7	7	FRANCE, ML 2.2 (LDG).
07	19	49	02.8	39.352	N	21.800	E	10	G			1.2	13	GREECE
07	19	51	09.7*	39.299	N	21.762	E	10	G			1.2	9	GREECE
07	19	54	28.2*	61.472	N	157.118	W	17					37	SOUTHERN ALASKA, <AEIC>, ML 3.5 (AEIC).
07	19	55	29.3*	34.434	N	23.702	E	39	*	4.3		1.3	35	CRETE, MD 3.9 (ATH).
07	20	20	37.3*	53.302	N	163.410	W	33	N	4.6		1.2	55	UNIMAK ISLAND REGION
07	20	23	17.6	39.359	N	21.732	E	11				0.6	19	GREECE, MD 3.3 (ATH).
07	20	24	10.2?	44.172	N	8.546	E	10	G			0.5	7	NORTHERN ITALY, ML 2.3 (GEN).
07	20	36	58.9*	39.307	N	21.757	E	10	G			0.8	7	GREECE, MD 2.5 (THE).
07	22	07	36.7	21.139	S	174.295	W	59	*	5.2	4.9	1.3	62	TONGA ISLANDS
07	22	07	55.0?	36.73	N	5.29	E	10	G			0.4	6	NORTHERN ALGERIA
07	22	14	23.9*	39.330	N	21.883	E	10	G			1.2	12	GREECE, MD 2.9 (THE).
07	22	31	46.7?	32.846	S	70.534	W	33	N			1.2	8	CHILE-ARGENTINA BORDER REGION
07	22	41	19.4*	60.240	N	150.734	W	48					29	KENAI PENINSULA, ALASKA, <AEIC>, ML 2.5 (AEIC)
07	22	57	47.4*	36.338	N	25.449	E	33	N			1.1	5	DODECANESE ISLANDS, ML 3.4 (ATH).
08	00	00	18.1*	29.327	S	72.838	W	33	N			0.5	11	OFF COAST OF CENTRAL CHILE
08	00	12	38.3?	39.296	N	21.764	E	10	G			1.2	6	GREECE, MD 2.4 (THE).
08	00	59	32.3	51.905	N	29.964	W	10	G	4.8	4.5	1.1	135	NORTHERN MID-ATLANTIC RIDGE
08	02	47	06.9*	62.821	N	150.866	W	95					60	CENTRAL ALASKA, <AEIC>
08	03	48	00.9	39.322	N	21.778	E	10	G			0.7	14	GREECE, MD 3.3 (ATH), 3.0 (THE).
08	04	20	35.0	35.326	N	53.314	E	66		4.5		0.5	29	NORTHERN IRAN, Felt in the Semnan area
08	05	04	28.2?	44.45	N	7.33	E	10	G			0.3	4	NORTHERN ITALY, ML 1.6 (GEN)
08	05	13	38.6*	12.350	N	144.604	E	33	N	4.6	4.1	1.1	7	SOUTH OF MARIANA ISLANDS
08	05	45	35.0*	12.585	N	144.649	E	33	N	4.6	4.5	0.7	7	SOUTH OF MARIANA ISLANDS
08	07	49	13.2*	5.226	N	31.898	E	10	G	4.5		1.4	12	SUDAN
08	08	12	47.5?	61.875	N	5.355	E	10	G			1.1	7	SOUTHERN NORWAY, MD 1.9 (BER)

08	08 18 04.2?	3.70 N	76 97 W	33 N	0 3	5	COLOMBIA MD 2.7 (UVC)
08	08 33 22.9%	44.941 N	7.033 E	10 G	0 5	5	NORTHERN ITALY. ML 1.8 (GEN)
08	08 50 34.4?	12.83 N	146.59 E	26 D	4.5 4 2	1 4	6 SOUTH OF MARIANA ISLANDS
08	09 32 42.3*	25.919 N	141.117 E	56 D	4 9	1 2	51 VOLCANO ISLANDS REGION
08	09 48 01.7%	62.439 N	5.539 E	10 G	0 9	9	9 SOUTHERN NORWAY. MD 2.4 (BER).
08	09 49 12.6*	49.608 S	125.744 E	10 G	4.6	1 3	21 SOUTH OF AUSTRALIA
08	09 57 41.4*	40.414 N	20.893 E	10 G	0 5	5	GREECE-ALBANIA BORDER REGION
08	10 14 50.3	43.622 N	7.804 E	10 G	0 6	8	NEAR SOUTH COAST OF FRANCE. ML 1.8 (LDG), 1.8 (GEN)
08	10 14 58.8	36.264 N	71.324 E	133	5 0	1 0	156 AFGHANISTAN-TAJIKISTAN BORD REG. Felt at Kabul, Afghanistan
08	13 13 06.4%	37.431 N	15.866 E	10 G	0 8	8	SICILY
o 08	13 50 30.8	40.250 S	175.053 E	88	5.6	1.1	150 NORTH ISLAND, NEW ZEALAND. Damage to many buildings at Wellington and Wanganui. Felt from Auckland to Christchurch, South Island.
08	16 00 40.8%	58.241 N	142.719 W	10 G		22	GULF OF ALASKA. <AEIC>. ML 2.8 (AEIC).
08	16 41 33.7%	62.870 N	4.812 E	10 G	0.6	8	NORWEGIAN SEA. MD 2.4 (BER).
08	16 57 18.7	41.111 N	22.451 E	14	0.7	20	NORTHWESTERN BALKAN REGION. ML 3.3 (SKO). MD 3.1 (THE). Felt (IV) in the Gevgelija area.
08	18 02 00.6?	23.26 N	121.81 E	10 G	0.9	6	TAIWAN
08	18 20 10.2	6.190 N	94.835 E	29 D	5.0 4.2	1.0	107 NICOBAR ISLANDS, INDIA
08	19 05 37.8?	44.02 N	4.76 E	10 G	0.5	11	FRANCE. ML 2.8 (LDG), 2.3 (STR).
08	19 45 22.3	42.162 N	18.751 E	10 G	4 3	1.4	199 NORTHWESTERN BALKAN REGION. ML 4.9 (ZAG), 4.3 (ROM). MD 4.9 (TRI), 4.3 (ATH), 4.2 (THE). Felt (VI) at Budva and Petrovac. (V) elsewhere along the coast of Montenegro and (IV) at Titograd.
08	20 53 24.3	37.408 N	134.554 E	398	4.6	0.8	33 SEA OF JAPAN
08	21 21 22.9*	23.981 N	122.971 E	10 G	0 6	5	TAIWAN REGION
08	21 57 01.9*	53.514 N	158.127 E	130 G	4.2	0.8	29 NEAR EAST COAST OF KAMCHATKA
08	22 09 23.6?	16.58 N	147.62 E	84 ?	4.3	1.1	10 MARIANA ISLANDS REGION
08	22 43 49.4	41.080 N	22.462 E	10 G	0 5	10	NORTHWESTERN BALKAN REGION. ML 1.7 (SKO). MD 2.4 (THE).
08	23 54 41.5	36.626 N	98.553 E	23 *	4.8	1.2	43 QINGHAI, CHINA
09	00 11 26.6	29.608 N	128.619 E	239	4.8	1.1	63 NORTHWEST OF RYUKYU ISLANDS
09	01 56 55.0?	3.28 N	77.97 W	33 N	0 4	7	NEAR WEST COAST OF COLOMBIA. MD 3.9 (UVC).
09	02 20 07.0?	22.65 N	120.91 E	10 G	1.5	8	TAIWAN
09	02 21 30.0	7.045 S	150.523 E	48 *	4.9	0.8	26 NEW BRITAIN REGION, P.N.G.
09	02 32 42.4	39.452 N	21.600 E	10 G	0 6	18	GREECE. MD 3.1 (THE), 3.1 (ATH).
09	02 40 29.0	41.924 N	84.860 E	10 G	4.5	1.0	35 SOUTHERN XINJIANG, CHINA
09	02 50 01.2*	64.862 S	170.883 W	10 G	4.9 4.6	0.9	11 PACIFIC-ANTARCTIC RIDGE
09	03 16 42.8?	4.76 N	76.80 W	33 N	0 6	7	COLOMBIA. MD 3.9 (UVC).
09	03 56 56.6*	1.790 N	122.950 E	34 D	4.6	1.0	17 MINAHASSA PENINSULA, SULAWESI
09	04 04 40.7	46.328 N	2.723 E	23	0 7	19	FRANCE. ML 3.0 (LDG).
09	04 25 28.2	39.577 N	20.478 E	5 G	0 9	18	GREECE-ALBANIA BORDER REGION MD 3.1 (ATH), 3.1 (THE).
09	05 37 17.6	31.756 S	179.977 W	535	5.2	0.7	44 KERMADEC ISLANDS REGION
09	06 18 43.8*	2.198 S	141.321 E	33 N	4.1	0.9	6 NEAR N COAST OF NEW GUINEA, PNG.
09	06 32 08.8%	11.226 N	61.979 W	33 N	1 1	9	WINDWARD ISLANDS
09	07 43 03.4*	53.892 N	161.625 E	33 N	4.7 4.6	1.1	24 OFF EAST COAST OF KAMCHATKA
09	07 49 55.6%	34.140 N	117.430 W	5		10	SOUTHERN CALIFORNIA. <PAS-P>. ML 2.9 (PAS). Felt at San Bernardino.
09	07 50 34.9*	21.199 S	68.337 W	158 ?	0 6	8	CHILE-BOLIVIA BORDER REGION
09	09 25 46.0	42.242 N	25.392 E	10 G	1 0	8	BULGARIA. MD 3.0 (THE).
09	10 21 40.6%	61.333 N	150.360 W	10		41	SOUTHERN ALASKA. <AEIC>. ML 2.6 (AEIC).
09	10 57 23.2%	38.752 N	119.752 W	20		12	CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.3 (BRK).
09	11 10 07.7?	15.93 N	60.78 W	33 N	0 1	5	LEEWARD ISLANDS. ML 1.8 (FDF).
09	14 29 49.5?	13.06 N	146.17 E	65 ?	4.7	1.4	13 SOUTH OF MARIANA ISLANDS
o 09	14 30 20.3	12.796 N	143.927 E	33 N	5.1 5.5	1.3	38 SOUTH OF MARIANA ISLANDS
09	14 45 41.4%	44.140 N	11.813 E	10 G	1 2	6	NORTHERN ITALY
09	15 01 47.1?	5.62 S	149.49 E	151 ?	4.2	0.8	6 NEW BRITAIN REGION, P.N.G.
09	15 03 43.1	51.256 N	178.199 W	33 N	4.9 5.5	1.1	95 ANDREANOF ISLANDS. ALEUTIAN IS. ML 5.1 (PMR). Felt (III) on Adak.
o 09	15 06 30.3	12.678 N	144.008 E	30 D	5.0 5.6	1.2	60 SOUTH OF MARIANA ISLANDS
09	15 20 55.5%	59.955 N	152.648 W	97		51	SOUTHERN ALASKA. <AEIC>.
09	16 22 25.3	3.500 S	145.263 E	27 D	5.2 5.1	1.2	87 NEAR N COAST OF NEW GUINEA, PNG.
09	18 23 09.9*	38.967 N	142.545 E	63 *	3.8	0.5	8 NEAR EAST COAST OF HONSHU, JAPAN
09	19 05 46.1%	44.521 N	6.311 E	10 G	0 8	6	FRANCE. ML 2.5 (LDG).
09	19 59 59.8?	33.72 S	69.96 W	10 G	0 2	6	CHILE-ARGENTINA BORDER REGION
09	20 48 03.0*	44.853 N	22.168 E	10 G	0 5	6	ROMANIA
09	20 57 50.4	22.552 N	120.920 E	10 G	4.3	1.2	25 TAIWAN. ML 4.4 (BJI).
09	21 40 56.2	39.470 N	21.301 E	10 G	0 6	13	GREECE. MD 3.0 (ATH), 2.9 (THE).
09	21 54 40.9*	57.698 S	25.144 W	33 N	4.9 3.8	0.7	12 SOUTH SANDWICH ISLANDS REGION
09	21 54 50.5	28.879 N	94.937 E	33 N	4.8	1.2	45 EASTERN XIJIANG-INDIA BORDER REG.
09	21 59 28.3?	17.17 N	61.69 W	33 N	0 2	6	LEEWARD ISLANDS. ML 3.4 (FDF).
09	23 03 27.3?	5.74 N	126.17 E	33 N	4.4	1.1	6 MINDANAO, PHILIPPINE ISLANDS
10	00 17 00.6%	46.195 N	122.181 W	4		81	WASHINGTON. <SEA>. MD 2.8 (SEA).
10	00 29 28.4%	46.033 N	2.839 E	10 G	0 2	11	FRANCE. ML 2.0 (LDG).
10	00 30 18.3?	34.34 S	71.10 W	33 N	0 4	9	NEAR COAST OF CENTRAL CHILE
10	00 42 10.5	37.427 N	22.100 E	21	3.4	1.1	24 SOUTHERN GREECE. ML 3.2 (ATH). MD 3.4 (THE).
10	01 28 15.5?	1.30 N	125.87 E	154 *	4.7	1.4	7 NORTHERN MOLUCCA SEA
10	01 47 03.9	39.445 N	27.845 E	10 G	0 5	43	TURKEY. MD 4.0 (THE), 3.6 (ATH).
10	01 55 30.5%	23.998 N	121.823 E	10 G	0 4	6	TAIWAN
10	02 12 13.8*	17.362 N	61.591 W	33 N	0 4	9	LEEWARD ISLANDS. ML 3.3 (FDF).
10	02 21 14.2*	20.308 S	173.079 W	33 N	4.7	1.4	9 TONGA ISLANDS
10	03 05 15.1	46.304 N	7.430 E	14	0 8	27	SWITZERLAND. ML 2.7 (LDG), 2.3 (STR).
10	04 02 07.8%	57.236 N	154.012 W	52	4.6	156	KODIAK ISLAND REGION. <AEIC>. ML 4.4 (AEIC), 4.9 (PMR). Felt (IV) at Akhiak and Larsen Bay. Also felt at Old Harbor.
10	05 57 03.7%	46.939 N	120.329 W	5		78	WASHINGTON. <SEA>. MD 2.7 (SEA).
10	06 13 19.5%	33.629 S	71.483 W	33 N	0 3	6	NEAR COAST OF CENTRAL CHILE
10	06 19 47.8?	44.81 N	6.68 E	10 G	0 4	4	FRANCE. ML 1.7 (GEN).
10	06 54 04.5	24.182 N	68.642 E	33 D	4.7 4 0	1.1	50 INDIA-PAKISTAN BORDER REG.
10	07 20 04.8	24.268 N	68.810 E	26 D	4.8 4 2	1 4	47 INDIA-PAKISTAN BORDER REG.
10	07 30 03.0%	32.490 N	115.230 W	6 G		7	CALIF.-BAJA CALIF BORDER REGION. <PAS-P>. ML 3.2 (PAS)
10	07 36 14.1%	40.416 N	26.384 E	10 G	1 4	6	TURKEY

10	07 46 59.5& 32.490 N	115 230 W	6 G			7	CALIF.-BAJA CALIF. BORDER REGION <PAS-P>. ML 3 0 (PAS).
10	08 18 30.8& 32.040 N	116.380 W	6 G			6	CALIF.-BAJA CALIF. BORDER REGION <PAS-P>. ML 3 2 (PAS).
10	08 38 10.3* 12.785 N	124 170 E	58 *	4.7	0 7	16	SAMAR, PHILIPPINE ISLANDS
10	08 56 41.7& 64.867 N	144.558 W	9		16	16	CENTRAL ALASKA. <AEIC>. ML 2.5 (AEIC).
10	11 24 31.1* 14.332 S	167.184 E	33 N	4 7	1 1	28	VANUATU ISLANDS
10	11 45 49.4* 7.404 S	128 371 E	163 *	4 9	1 0	29	BANDA SEA
10	12 15 39.4 37.203 N	118.965 W	10 G		0.8	6	CALIFORNIA-NEVADA BORDER REGION MD 3 0 (GM)
10	13 27 30.8* 24.690 N	122 460 E	10 G		1 5	6	TAIWAN REGION
10	13 51 26.7% 43.554 N	12 167 E	33 N		0 4	6	CENTRAL ITALY
10	14 00 33.7& 36.155 N	123 077 W	35			13	OFF COAST OF CALIFORNIA. <BRK>. ML 3.1 (BRK)
10	14 12 52.5% 41.084 N	28 506 E	10 G		1 1	5	TURKEY
10	15 30 45.0% 40.811 N	25.315 E	10 G		1 0	7	AEGEAN SEA MD 2 9 (THE).
10	15 38 10.5? 32.28 S	71.67 W	10 G		0 2	7	NEAR COAST OF CENTRAL CHILE
10	15 40 06.7 15.855 S	174.929 W	295	4.9	1 1	74	TONGA ISLANDS
10	16 30 39.1& 63.577 N	148.085 W	19			50	CENTRAL ALASKA. <AEIC>. ML 3.3 (AEIC), 3.9 (PMR).
10	17 46 39.8* 26.838 S	26.635 E	5 G		0.6	5	REPUBLIC OF SOUTH AFRICA. mbLg 3.3 (BUL).
10	18 17 15.8 43.456 N	5.793 E	10 G		1 1	14	NEAR SOUTH COAST OF FRANCE. ML 3.2 (LDG), 2.7 (STR)
10	18 41 42.6 45.732 N	26.598 E	162 *		0 8	25	ROMANIA
10	18 54 31.1 15.979 N	95.382 W	47	4.8 4.7	1.0	69	NEAR COAST OF OAXACA, MEXICO. Felt in the Santiago Astata area.
10	18 59 15.9 37.722 N	23.381 E	171	4.0	1.2	97	SOUTHERN GREECE. MD 4.4 (HLW), 4.0 (THE).
10	19 28 52.5? 20.74 S	67.72 W	10 G		1.5	4	SOUTHERN BOLIVIA
10	19 53 55.2* 26.368 S	27.307 E	5 G		1.2	6	REPUBLIC OF SOUTH AFRICA. mbLg 3.4 (BUL).
10	20 27 31.9* 7.481 S	128.870 E	155 ?	5.0	1 0	15	BANDA SEA
10	21 07 03.4 40.417 N	25.725 E	16		0.7	26	AEGEAN SEA MD 3.5 (THE), 3.2 (ATH).
10	22 06 08.4* 50.636 N	12.687 E	10 G		0 9	5	GERMANY
10	22 12 27.9* 1.302 N	122.516 E	33 N	4.9	1 3	13	MINAHASSA PENINSULA, SULAWESI
10	22 25 50.8? 33.04 S	70.47 W	33 N		1 4	8	CHILE-ARGENTINA BORDER REGION
10	22 58 02.8* 21.736 N	143.374 E	289 ?	4.2	1.2	16	MARIANA ISLANDS REGION
10	23 01 18.7 44.097 N	7.165 E	10 G		0.4	20	NORTHERN ITALY. ML 2.5 (LDG), 1.9 (GEN).
11	01 25 07.0* 56.071 S	26.665 W	33 N	4.8	1.1	13	SOUTH SANDWICH ISLANDS REGION
11	01 30 11.5& 37.000 N	121.937 W	6			17	CENTRAL CALIFORNIA. <BRK>. ML 3 1 (BRK). Felt (iv) at Aptos, Capitola, Mount Hermon and Santa Cruz. Also felt at Felton and Watsonville.
11	01 33 44.7& 36.997 N	121.930 W	2			13	CENTRAL CALIFORNIA. <BRK>. ML 2.6 (BRK). Felt in the Santa Cruz-Watsonville area.
11	02 52 35.9 40.232 N	21.254 E	10		0.9	31	GREECE. ML 3.8 (ATH), MD 3.6 (THE).
11	02 58 26.0 42.037 N	19.220 E	10 G		1.1	36	NORTHWESTERN BALKAN REGION. MD 3.6 (THE).
11	03 46 49.1* 1.756 N	122 934 E	34 D	4 8	1 2	17	MINAHASSA PENINSULA, SULAWESI
11	04 04 33.3* 13.976 N	93.671 W	48 *	4.2	1.1	20	OFF COAST OF CHIAPAS, MEXICO
11	04 39 53.3 13.134 N	89.520 W	67	4.8	1 1	115	EL SALVADOR. Ms 5.1 (BRK) Felt (iii) at San Salvador.
11	05 39 09.0 7.334 N	94.376 E	136	4.8	0.9	87	NICOBAR ISLANDS, INDIA
11	06 41 14.8 36.372 N	70 220 E	205 *	4 5	1 1	25	HINDU KUSH REGION, AFGHANISTAN
11	07 13 35.6& 46.933 N	120.348 W	4			73	WASHINGTON. <SEA> MD 2.6 (SEA).
11	07 14 20.0? 36.72 N	141.21 E	58 ?	4 4	0.8	8	NEAR EAST COAST OF HONSHU, JAPAN
11	07 39 04.7? 13.01 N	60.19 W	33 N		0.7	4	WINDWARD ISLANDS. MD 3 3 (TRN).
11	07 53 17.7? 50.24 N	18.92 E	10 G		1.4	4	POLAND. ML 2.9 (

12	11 55 37.9%	39.925 N	23.943 E	10 G	0 4	7	AEGEAN SEA. MD 3 0 (THE)
12	12 03 45 4%	58.251 N	142.637 W	10 G	20		GULF OF ALASKA <AEIC> ML 2.6 (AEIC)
12	12 13 41 1%	38.276 N	15 696 E	10 G	1 0	9	SICILY
12	13 05 03 8%	63.262 N	151 355 W	11	50		CENTRAL ALASKA <AEIC> ML 3.0 (AEIC). 3.5 (PMR)
12	13 16 48 7%	16.09 S	178.31 E	33 N	0 5	7	FIJI ISLANDS ML 4 2 (SVA)
12	14 10 38.1%	44 387 N	7.393 E	10 G	0 2	8	NORTHERN ITALY ML 1.8 (GEN).
12	14 58 01.4%	16.96 N	98.79 W	33 N	1 7	6	NEAR COAST OF GUERRERO, MEXICO Felt along the coasts of Guerrero and Oaxaca
12	15 15 31.9%	60.536 N	151.951 W	94	34		KENAI PENINSULA, ALASKA <AEIC>
12	16 02 38.0%	62.312 N	149.761 W	59	41		CENTRAL ALASKA. <AEIC> ML 2.7 (AEIC)
12	16 03 03.6%	58.903 N	154.613 W	124	23		ALASKA PENINSULA. <AEIC>
12	17 21 04.4%	36.94 N	31.96 E	10 G	1 4	4	TURKEY. ML 2.7 (CSS).
12	18 45 17.4%	35.737 N	22.313 E	33 N	1 3	23	CENTRAL MEDITERRANEAN SEA. MD 3.6 (THE). ML 3 5 (ATH).
12	19 31 18.3%	34.250 S	70.535 W	113 *	0 3	11	CHILE-ARGENTINA BORDER REGION. Felt in the Santiago area, Chile.
12	19 43 57.3%	41.965 N	20.644 E	10 G	1 0	55	ALBANIA. ML 3.8 (SKO). MD 3.8 (THE).
12	20 00 26.4%	40.72 N	29.82 E	10 G	0 5	5	TURKEY
12	21 10 07.7%	10 51 N	62.10 W	10 G	0 9	5	NEAR COAST OF VENEZUELA. MD 3.5 (TRN).
12	23 06 30.1%	29.698 N	95.688 E	34 *	1 0	20	EASTERN XIJANG-INDIA BORDER REG.
12	23 09 01.9%	41.565 N	12.704 E	10 G	0 4	8	SOUTHERN ITALY
13	00 15 09.2%	32.47 S	71.70 W	10 G	0 6	8	NEAR COAST OF CENTRAL CHILE
13	00 28 39.8%	33.90 S	70.15 W	33 N	1 6	6	CHILE-ARGENTINA BORDER REGION
13	01 20 55.4%	39.465 N	26.299 E	10 G	0 3	10	TURKEY
a 13	01 34 18.6%	10.456 N	85.234 W	54 *	1 2	46	COSTA RICA
13	02 23 26.5%	51.224 N	15.786 E	10 G	1 7	8	POLAND. ML 3.2 (VKA), 3.2 (GRF).
13	03 18 05.9%	38.47 N	24.05 E	10 G	0 1	4	AEGEAN SEA MD 2.9 (ATH).
13	04 27 38.4%	7.33 S	124.03 E	54 ?	1 2	7	BANDA SEA
13	05 06 07.2%	40.560 N	27.711 E	10 G	0 4	9	TURKEY
13	05 33 22.4%	3.080 N	84.601 W	10 G	1 3	14	OFF COAST OF CENTRAL AMERICA
13	06 11 11.2%	15.047 N	147.540 E	33 N	0 8	33	MARIANA ISLANDS REGION
13	07 08 16.6%	44.881 N	22.298 E	10 G	1 2	11	ROMANIA. MG 3.2 (BEO).
13	07 58 17.5%	31.249 S	67.771 W	33 N	1 4	14	SAN JUAN PROVINCE, ARGENTINA
13	08 15 35.4%	44.81 N	149.67 E	33 N	1 6	12	KURIL ISLANDS
13	08 28 18.0%	40.62 N	30.12 E	10 G	0 4	5	TURKEY
13	08 31 17.4%	22.16 S	67.54 W	317 ?	0 9	7	CHILE-BOLIVIA BORDER REGION
13	09 56 45.3%	39.12 N	27.67 E	10 G	0 9	4	TURKEY
13	11 01 42.3%	27.18 N	127.46 E	33 N	1 0	7	RYUKYU ISLANDS
13	12 12 46.0%	45.358 N	21.283 E	10 G	1 0	6	ROMANIA. MG 3.2 (BEO)
13	12 17 08.8%	42.710 N	23.934 E	10 G	1 4	7	BULGARIA. MD 3.3 (THE).
13	12 56 57.1%	9.884 S	149.917 E	28 D	0 8	43	EASTERN NEW GUINEA REG., P.N.G.
13	14 43 29.0%	15.158 N	147.576 E	33 N	0 6	9	MARIANA ISLANDS REGION
13	17 33 58.1%	4.91 N	76.19 W	110 G	0 7	5	COLOMBIA. MD 3.1 (UVC).
13	18 10 43.1%	47.469 N	7.290 E	10 G	0 5	5	SWITZERLAND. ML 1 5 (STR).
13	18 31 52.6%	18.14 N	100.55 W	33 N	1 1	5	GUERRERO, MEXICO
13	18 49 26.4%	23.83 S	66.86 W	142 ?	1 2	6	JUJUY PROVINCE, ARGENTINA
13	19 01 21.1%	1.619 N	126.967 E	85 ?	1 0	24	NORTHERN MOLUCCA SEA
13	19 36 04.7%	41.747 N	22.948 E	10 G	0 9	7	NORTHWESTERN BALKAN REGION. ML 1.8 (SKO).
13	19 36 53.6%	31.54 S	70.86 W	120 G	0 4	8	CHILE-ARGENTINA BORDER REGION
13	20 33 36.5%	39.03 N	21.60 E	10 G	0 4	4	GREECE. MD 2.6 (THE).
13	21 11 34.8%	15.50 S	167.44 E	113 ?	1 2	26	VANUATU ISLANDS
13	22 20 15.6%	39.209 N	23.595 E	10 G	0 8	16	AEGEAN SEA. MD 3.2 (THE). ML 3.1 (ATH).
13	22 32 06.1%	59.796 N	6.389 E	5 G	0 5	5	SOUTHERN NORWAY. MD 1.8 (BER).
14	00 57 05.2%	10.050 N	69.968 W	10 G	1 3	9	VENEZUELA. Felt at Carara and El Tacuya.
14	01 08 19.0%	44.97 N	3.42 E	10 G	0 7	6	FRANCE. ML 1.9 (LDG).
14	01 35 24.8%	44.186 N	7.390 E	10 G	0 7	7	NORTHERN ITALY. ML 1.4 (GEN).
14	01 45 43.0%	40.30 N	28.72 E	10 G	0 3	4	TURKEY
14	01 48 22.2%	45.182 N	3.173 E	10 G	0 8	12	FRANCE. ML 2.4 (LDG).
14	02 31 31.7%	46.889 N	0.246 E	10 G	0 8	10	FRANCE. ML 2.3 (LDG).
14	04 03 20.7%	17.967 N	66.317 W	10 G	0 6	7	PUERTO RICO REGION
14	04 10 05.5%	26.796 S	71.421 W	33 N	1 2	16	OFF COAST OF NORTHERN CHILE
14	04 26 55.1%	43.112 N	0.632 W	10 G	0 2	9	PYRENEES. ML 1.2 (STR).
14	05 19 36.1%	5.84 N	127.52 E	33 N	1 6	10	PHILIPPINE ISLANDS REGION
14	05 53 22.6%	40.101 N	142.708 E	33 N	0 7	13	NEAR EAST COAST OF HONSHU, JAPAN
14	06 03 39.9%	42.462 N	13.173 E	10 G	1 0	5	CENTRAL ITALY
14	06 33 34.6%	32.737 S	71.593 W	33 N	1 2	11	NEAR COAST OF CENTRAL CHILE
14	07 04 34.3%	39.395 N	25.873 E	10 G	1 0	9	AEGEAN SEA. MD 3.1 (ATH).
14	07 22 12.2%	22.55 S	67.24 W	33 N	0 9	6	CHILE-BOLIVIA BORDER REGION
14	08 46 38.8%	15.292 N	60.409 W	33 N	0 3	12	LEEWARD ISLANDS ML 3.1 (FDF).
14	09 00 20.6%	17.86 N	62.75 W	10 G	0 5	7	LEEWARD ISLANDS. ML 3.5 (FDF).
14	09 32 55.3%	9.07 S	123.40 E	136 ?	1 7	8	TIMOR REGION, INDONESIA
14	10 15 49.6%	36.91 N	9.74 W	22	1 1	23	WEST OF GIBRALTAR. MD 3.4 (RBA). mblg 3.3 (MDD)
14	10 25 01.3%	61.384 N	140.005 W	10 G	5 0	4 3	SOUTHERN YUKON TERRITORY, CANADA. <PGC>. ML 5.1 (PMR). Felt at Burwash Landing.
14	10 45 46.8%	14 66 N	60.64 W	106 ?	0 4	12	WINDWARD ISLANDS
14	11 13 00.9%	37.10 N	36.03 E	10 G	1 2	6	TURKEY. ML 4.1 (CSS).
14	12 29 08.9%	40.68 N	30.17 E	10 G	0 4	6	TURKEY
14	12 34 57.4%	15.99 N	94.61 W	33 N	1 5	11	NEAR COAST OF OAXACA, MEXICO
14	12 48 20.3%	36.450 N	8.209 W	25	0 8	24	WEST OF GIBRALTAR. MD 3.2 (RBA). mblg 3.1 (MDD).
14	13 16 39.7%	40.171 N	105.046 E	25 D	5 1	4 5	WESTERN NEI MONGOL, CHINA. ML 5.2 (BJI).
14	14 02 29.2%	31.99 S	71.80 W	33 N	0 4	8	NEAR COAST OF CENTRAL CHILE
14	14 14 41.9%	39.136 S	174.236 E	588	0 8	64	NORTH ISLAND, NEW ZEALAND
14	14 58 48.1%	42.396 N	13.047 E	10 G	0 2	5	CENTRAL ITALY
14	15 19 24.1%	61.484 N	139.898 W	10 G	5 7		SOUTHERN YUKON TERRITORY, CANADA. <PGC>. ML 4.0 (PGC). 4.5 (PMR).
14	16 19 41.7%	4.474 S	135.068 E	33 N	4 5	1 5	IRIAN JAYA REGION, INDONESIA
14	16 49 55.0%	59.724 N	153.515 W	127	36		SOUTHERN ALASKA. <AEIC>
14	17 33 43.8%	57.805 N	138.297 W	10 G	6		OFF COAST OF SOUTHEASTERN ALASKA. <AEIC> ML 2.5 (AEIC).
14	17 54 30.6%	34 020 N	118.110 W	10	11		SOUTHERN CALIFORNIA. <PAS-P> ML 3.3 (PAS). Felt (IV) at Bell, Cudahy and Pico Rivera. Also felt at Downey and Montbello.
14	18 58 25 8	38.264 N	26.726 E	10 G	1 3	10	AEGEAN SEA ML 3.5 (ATH)
14	19 00 00 0%	37.226 N	116.428 W	0	5 5	4 2	283 SOUTHERN NEVADA <DOE> ML 5 3 (BRK). 37' 13' 32.30"

										N. 116° 25' 41 27" W. Surface Elev 1979 m. Depth of Burial 658 m. Shot Time 190000.049. "HOYA." Nevada Test Site (Dept of Energy)									
14	19	08	47	8%	40.648 N	23.669 E	10 G	0 3	6	GREECE									
14	19	34	59	6?	31.80 S	69.86 W	110 G	0 7	9	SAN JUAN PROVINCE, ARGENTINA									
14	19	38	16	7*	29.102 N	51.340 E	33 N	4.0	1 5	14	SOUTHERN IRAN								
14	20	21	45	7?	32.52 S	71.23 W	33 N		0 3	9	NEAR COAST OF CENTRAL CHILE								
14	20	52	57	7	32.787 N	46.377 E	33 N	4.0	0 8	10	IRAN-IRAQ BORDER REGION								
14	20	57	32	7	40.625 N	22.934 E	5 G		0 8	22	GREECE MD 3.2 (ATH) ML 2 9 (SKO). Felt at Thessaloniki.								
14	21	00	09	0	40.670 N	22.952 E	10 G		0 9	33	GREECE. ML 3.8 (ATH). 3.4 (SKO) MD 3 4 (THE) Felt at Thessaloniki								
14	21	03	02.1		1.950 N	121.511 E	25 *	4.8	1.2	44	MINAHASSA PENINSULA, SULAWESI								
14	21	07	24.8*		31.229 S	69.899 W	110 G		1.1	13	SAN JUAN PROVINCE, ARGENTINA								
14	21	28	10.5		39.809 N	142.814 E	58 *		0.8	13	NEAR EAST COAST OF HONSHU, JAPAN								
14	23	39	37	3%	42.526 N	13.113 E	10 G		0.6	6	CENTRAL ITALY								
14	23	49	38.6*		36.918 N	30.609 E	10 G		1.2	7	TURKEY								
14	23	55	32.2%		38.760 N	122.722 W	6			14	NORTHERN CALIFORNIA. <BRK>. ML 3.6 (BRK). Mo=3 6*10**14 Nm (BRK)								
15	00	11	39.3		44.771 N	22.296 E	10 G		1.2	10	ROMANIA								
15	00	20	50.3		30.617 N	66.735 E	33 N	4.8 4.2	1.5	41	PAKISTAN								
15	01	05	52.7		10.941 N	124.801 E	33 N	4.7 4.4	1.4	34	LEYTE, PHILIPPINE ISLANDS								
15	01	39	41.4?		40.72 N	29.78 E	10 G		0.2	4	TURKEY								
15	02	12	24.9		30.724 N	66.763 E	26 D	4.6 4.6	1.5	43	PAKISTAN								
15	02	27	20.0*		2.800 N	128.451 E	80 ?	4.9	1.6	21	HALMAHERA, INDONESIA								
15	02	55	47.4		39.305 N	20.684 E	15		0.9	16	GREECE-ALBANIA BORDER REGION MD 3.1 (ATH).								
15	03	16	20.9?		40.88 N	22.92 E	10 G		0.8	4	GREECE								
15	03	21	16.3%		61.242 N	149.376 W	38			44	SOUTHERN ALASKA. <AEIC>. ML 2.5 (AEIC).								
15	03	37	08.8?		2.08 N	123.35 E	58 *	4.1	0.8	9	CELEBES SEA								
15	06	02	18.4*		17.870 S	115.875 W	10 G	4.8	1 0	33	SOUTHERN EAST PACIFIC RISE								
15	06	39	12.3		17.879 S	116.021 W	10 G	5.6 4.7	0.9	279	SOUTHERN EAST PACIFIC RISE. Mo=4.0*10**17 Nm (PPT)								
15	07	18	50.4%		3.919 N	76.325 W	100 G		0.3	6	COLOMBIA. MD 2.9 (UVC)								
15	07	19	03.6		42.291 N	25.465 E	5 G		1.3	14	BULGARIA. MD 3.4 (THE)								
15	08	55	27.9%		46.836 N	2.208 E	10 G		0.1	9	FRANCE. ML 2.1 (LDG)								
15	09	34	00.6%		40.814 N	29.633 E	10 G		0.5	6	TURKEY								
15	10	27	37.1		6.839 S	147.333 E	83	5.1	1.2	64	EASTERN NEW GUINEA REG., P.N.G.								
15	10	40	27.0		33.994 N	24.902 E	10 G	4.1	1.1	36	CENTRAL MEDITERRANEAN SEA. ML 4.4 (CSS). MD 4.2 (ATH).								
15	10	45	44.6?		40.65 N	30.01 E	10 G		0.6	5	TURKEY								
15	11	01	22.2*		41.765 N	24.348 E	5 G		0.4	6	GREECE-BULGARIA BORDER REGION								
15	13	06	41.8*		15.005 S	167.219 E	175 ?	4.6	1.2	27	VANUATU ISLANDS								
15	13	25	23.7?		33.71 S	72.17 W	10 G		0.6	10	OFF COAST OF CENTRAL CHILE								
15	14	57	56.3*		5.372 S	146.859 E	224	5.1	0.8	14	EASTERN NEW GUINEA REG., P.N.G.								
15	15	10	31.5		1.696 S	12.833 W	10 G	4.9 4.5	1.2	78	NORTH OF ASCENSION ISLAND								
15	15	49	44.5%		32.050 N	114.970 W	6 G			5	W ARIZONA-SONORA BORDER REGION. <PAS-P>. ML 3.4 (PAS).								
15	16	13	02.5%		38.154 N	27.661 E	10 G		0.7	6	TURKEY								
15	16	57	43.3%		48.614 N	123.014 W	20			87	VANCOUVER ISLAND REGION. <PGC>. ML 3.1 (PGC). MD 3.0 (SEA). Felt mildly at Richmond and Sidney, British Columbia. Also felt at Ferry Landing and Deer Harbor, Washington.								
15	18	26	27.5		44.822 N	22.417 E	10 G		1.1	31	ROMANIA MG 3.5 (BEO).								
15	19	27	03.2		5.654 S	147.346 E	164 *	4.7	1.2	23	EASTERN NEW GUINEA REG., P.N.G.								
15	19	48	42.9*		2.287 S	79.437 W	122 *		1.2	14	NEAR COAST OF ECUADOR MD 4.5 (OUI). Felt in the Guaranda area.								
15	19	53	55.3%		34.160 N	117.330 W	9			14	SOUTHERN CALIFORNIA <PAS-P>. ML 3.2 (PAS). Felt at San Bernardino.								
15	22	03	11.9%		61.724 N	149.648 W	40			65	SOUTHERN ALASKA. <AEIC>. ML 3.2 (AEIC), 3.0 (PMR).								
15	22	56	20.6		31.512 S	69.936 W	110 D	5.2	1.2	114	SAN JUAN PROVINCE, ARGENTINA. Felt (V) in Mendoza and San Juan Provinces. Also felt (IV) at Santiago, Chile.								
15	22	59	52.1%		60.100 N	146.949 W	2			39	SOUTHERN ALASKA. <AEIC> ML 2.5 (AEIC).								
15	23	17	48.9?		32.64 S	70.05 W	90 G		0.8	11	CHILE-ARGENTINA BORDER REGION								
15	23	41	32.3*		36.792 N	71.478 E	107 ?	4.8	1.7	17	AFGHANISTAN-TAJIKISTAN BORD REG.								
16	00	16	27.8		18.026 N	70.842 W	48 *	4.5	1.0	43	DOMINICAN REPUBLIC REGION								
16	00	29	23.0?		14.03 N	61.35 W	10 G		1.1	4	WINDWARD ISLANDS. MD 3.0 (TRN).								
16	00	52	36.7?		2.31 N	76.18 W	10 G		0.6	6	COLOMBIA. MD 3.6 (UVC).								
16	01	46	04.7?		42.92 N	17.56 E	10 G		1.2	8	ADRIATIC SEA								
16	02	09	22.2%		43.866 N	8.516 E	10 G		0.3	8	CORSICA. ML 2.0 (GEN).								
16	02	46	36.5%		61.299 N	150.920 W	53			40	SOUTHERN ALASKA. <AEIC>. ML 2.5 (AEIC).								
16	03	07	09.3?		13.60 N	89.15 W	168 ?	4.1	1.1	11	EL SALVADOR								
16	03	31	12.0?		4.12 N	77.04 W	33 N		0.5	6	NEAR WEST COAST OF COLOMBIA. MD 3.2 (UVC).								
16	03	42	29.5?		43.64 N	12.11 E	10 G		1.3	4	CENTRAL ITALY								
16	03	48	01.1		45.108 N	125.946 W	10 G		0.5	64	OFF COAST OF OREGON								
16	03	51	02.2%		42.497 N	142.217 E	33 N		0.6	5	HOKKAIDO, JAPAN REGION								
16	04	03	06.5		5.229 S	145.758 E	44 D	4.9 4.6	1.1	62	EASTERN NEW GUINEA REG., P.N.G.								
16	05	31	11.7%		39.352 N	28.995 E	10 G		0.5	14	TURKEY								
16	06	35	15.7%		46.087 N	123.928 W	5			38	WASHINGTON-OREGON BORDER REGION. <SEA>.								
16	07	50	11.5%		66.241 N	150.054 W	17			10	NORTHERN ALASKA. <AEIC>. ML 2.5 (AEIC).								
16	07	57	24.2?		4.89 N	76.20 W	100 G		0.3	6	COLOMBIA. MD 3.1 (UVC).								
16	09	07	34.1		45.083 N	125.952 W	10 G		0.5	71	OFF COAST OF OREGON								
16	10	10	18.3		15.889 N	120.967 E	30 D	4.7	1.3	40	LUZON, PHILIPPINE ISLANDS								
16	11	04	21.3%		40.012 N	27.994 E	10 G		0.8	6	TURKEY								
16	11	38	16.4?		20.32 S	168.68 E	33 N	4.4	1.6	17	LOYALTY ISLANDS								
16	13	23	38.9		28.999 N	51.321 E	33 N	4.9 5.0	1.2	106	SOUTHERN IRAN. Felt at Borazjan and Bushehr.								
16	13	58	59.4?		17.00 N	61.01 W	33 N		0.5	7	LEEWARD ISLANDS. ML 3.1 (FDF).								
16	14	31	56.7?		41.59 N	22.33 E	10 G		0.2	5	NORTHWESTERN BALKAN REGION. MD 2.8 (THE).								
16	17	03	37.7?		3.97 N	76.09 W	33 N		0.4	5	COLOMBIA. MD 2.7 (UVC).								
16	17	12	06.6%		16.940 N	61.064 W	27 *		0.3	9	LEEWARD ISLANDS. ML 3.3 (FDF).								
16	17	36	38.6?		60.91 N	5.82 E	10 G		0.1	4	SOUTHERN NORWAY. MD 1.2 (BER).								
16	17	47	17.8		5.487 S	147.055 E	215 D	5.1	0.8	137	EASTERN NEW GUINEA REG., P.N.G.								
16	19	35	53.6%		14.873 N	60.439 W	33 N		0.3	9	WINDWARD ISLANDS. ML 2.4 (FDF).								
16	19	59	04.7%		49.991 N	141.547 W	6			7	SOUTHEASTERN ALASKA. <AEIC>. ML 2.7 (AEIC).								
16	21	04	46.1%		61.335 N	140.601 W	0			9	SOUTHERN YUKON TERRITORY, CANADA. <AEIC>. ML 2.6 (AEIC).								
16	21	28	46.0		45.907 N	6.902 E	10 G		1 0	22	FRANCE. ML 2 6 (LDG). 2 2 (GEN)								

16	21	28	58.0?	4.43	N	76.44	W	110	G	0.6	5	COLOMBIA MD 3.0 (UVC)		
16	22	01	57.3	19.652	N	92.994	E	33	N	4.0	13	BAY OF BENGAL		
a	16	22	19	08.0	13.246	S	167.139	E	163	D	5.4	191	VANUATU ISLANDS	
17	01	17	23.0%	38.169	N	14.909	E	32	*		17	6	SICILY	
17	01	53	19.9?	43.74	N	8.49	E	10	G	0.2	7	CORSICA. ML 1.9 (GEN).		
17	02	01	33.8%	44.345	N	6.852	E	5	G	0.4	8	FRANCE. ML 1.9 (GEN).		
17	02	18	59.8	24.548	S	177.102	W	196	D	4.7	1.0	51	SOUTH OF FIJI ISLANDS	
17	02	48	53.6*	4.541	N	126.688	E	33	N	4.8	1.3	34	TALAUD ISLANDS, INDONESIA	
17	03	02	01.3	44.541	N	22.420	E	13			1.2	58	ROMANIA. MG 3.8 (BEO).	
17	03	06	23.1	31.749	N	131.672	E	58		4.3	1.0	21	KYUSHU, JAPAN	
17	05	09	51.7*	45.295	N	125.647	W	10	G		0.4	40	OFF COAST OF OREGON	
17	06	18	55.1?	21.25	S	178.36	W	500	G	4.3	1.6	11	FIJI ISLANDS REGION	
17	06	32	03.9	45.231	N	7.441	E	10	G		1.0	27	NORTHERN ITALY. ML 2.6 (LDG), 2.6 (GEN).	
17	08	53	59.5*	42.503	N	16.176	E	10	G		1.3	8	ADRIATIC SEA	
17	08	57	46.3%	61.596	N	150.514	W	44				34	SOUTHERN ALASKA. <AEIC>. ML 2.6 (AEIC).	
17	09	20	02.9%	40.176	N	3.567	W	10	G		1.3	7	SPAIN. mbLg 2.8 (MDD).	
17	09	54	27.8?	2.07	N	127.52	E	33	N	4.5	1.4	8	NORTHERN MOLUCCA SEA	
17	10	34	53.6%	38.199	N	118.750	W	5				6	CALIFORNIA-NEVADA BORDER REGION. <GM-P>. MD 2.6 (GM)	
17	11	07	25.3*	12.695	S	166.536	E	139	?	5.0	1.3	60	SANTA CRUZ ISLANDS	
17	12	51	00.9?	30.98	S	177.15	W	33	N	5.1	1.7	16	KERMADEC ISLANDS, NEW ZEALAND	
17	14	19	46.1	43.407	N	5.430	E	5	G		0.6	14	NEAR SOUTH COAST OF FRANCE. ML 2.8 (LDG), 2.6 (STR).	
17	14	37	57.2	6.631	S	130.661	E	89	*	5.2	1.4	36	BANDA SEA	
a	17	14	45	15.4	25.195	S	178.354	E	559		5.3	1.0	177	SOUTH OF FIJI ISLANDS. MD 5.5 (SVA).
17	15	18	31.5%	41.104	N	28.491	E	10	G		0.8	6	TURKEY	
17	17	42	40.0*	6.847	S	129.993	E	175	*	4.7	1.4	13	BANDA SEA	
17	17	44	53.6?	2.67	S	138.82	E	33	N	4.5	1.7	8	IRIAN JAYA, INDONESIA	
17	18	53	22.2	43.141	N	87.968	E	22	D	4.8	0.9	49	NORTHERN XINJIANG, CHINA	
17	19	51	02.6%	43.108	N	0.622	W	10	G		0.3	8	PYRENEES. ML 1.0 (STR).	
17	20	24	02.3	7.187	S	126.123	E	479		4.9	0.9	29	BANDA SEA	
17	20	29	36.4%	44.567	N	6.815	E	10	G		0.5	5	FRANCE. ML 1.6 (GEN).	
17	20	41	26.3	44.319	N	15.027	E	10	G		1.0	14	NORTHWESTERN BALKAN REGION. ML 2.9 (ZAG), MD 2.9 (TRI).	
17	20	45	43.1	23.749	N	125.053	E	33	D	4.7	1.2	43	SOUTHWESTERN RYUKYU ISLANDS	
17	21	02	53.9?	5.86	S	147.63	E	49	*	4.5	0.8	10	EASTERN NEW GUINEA REG., P.N.G.	
17	21	10	29.3%	35.828	N	121.323	W	9		5.2 4.5	1.3	128	CENTRAL CALIFORNIA. <BRK>. ML 5.1 (BRK), 4.8 (PAS). Ma=5.0*10**16 Nm (BRK). Slight damage (VI) at San Simeon. Felt (V) at King City and (IV) at Arroya Grande, Atascadero, Cambria, Cayucas, Greenfield, Grover City, Harmany, Lackwood, Monterey, Pismo Beach, San Ardo, San Lucas, San Luis Obispo, Saledad and Watsonville. Felt north along the coast at Santa Cruz, Santa Clara, San Mateo and San Francisco.	
17	21	31	08.6%	63.121	N	149.656	W	85				37	CENTRAL ALASKA. <AEIC>.	
17	21	38	10.5%	36.197	N	5.994	W	10	G		1.5	9	STRAIT OF GIBRALTAR	
17	22	08	01.0*	3.086	S	139.263	E	33	N	4.4	0.8	7	IRIAN JAYA, INDONESIA	
18	00	56	06.3%	58.919	N	154.445	W	119				65	ALASKA PENINSULA. <AEIC>.	
18	01	13	34.9%	44.349	N	7.368	E	5	G		0.6	5	NORTHERN ITALY. ML 1.4 (GEN).	
18	01	24	47.4*	7.052	S	128.999	E	168	?	4.9	1.3	15	BANDA SEA	
18	01	31	00.4?	36.74	N	5.56	W	10	G		0.5	4	STRAIT OF GIBRALTAR. mbLg 2.6 (MDD).	
18	01	40	33.7?	37.58	N	20.01	E	10	G		1.6	11	IONIAN SEA. MD 3.8 (THE).	
18	01	54	41.8*	40.874	N	19.652	E	10	G		1.4	6	ALBANIA	
18	04	33	55.3?	15.96	N	98.29	W	33	N	4.2	1.4	6	OFF COAST OF GUERRERO, MEXICO	
18	06	27	22.3%	59.867	N	153.218	W	120				51	SOUTHERN ALASKA. <AEIC>.	
18	07	01	32.4*	24.401	N	123.158	E	33	N	4.6	0.8	15	SOUTHWESTERN RYUKYU ISLANDS	
18	07	13	06.4	38.181	N	134.011	E	423		4.9	0.9	41	SEA OF JAPAN	
18	07	45	18.7	45.515	N	21.018	E	10	G		1.1	14	ROMANIA. MG 3.4 (BEO).	
18	08	13	16.5*	5.477	S	151.099	E	116	*	5.2	0.7	13	NEW BRITAIN REGION, P.N.G.	
18	08	48	55.9*	52.645	N	158.230	E	33	N	5.0	1.0	43	NEAR EAST COAST OF KAMCHATKA	
18	08	56	32.0%	40.552	N	22.506	E	10	G		0.5	5	GREECE	
f	18	09	48	13.1	14.646	N	90.986	W	5	G	5.7 6.1	1.3	271	GUATEMALA. Ms 6.2 (BRK). Ma=3.0*10**18 Nm (PPT). At least 25 people killed, more than 200 injured, 1,000 homeless and extensive damage in the Pachuta-Solala area. Landslides blocked many roads in the epicentral area. Felt (IV) at Guatemala City. Also felt (II) at San Salvador, El Salvador.
18	09	51	52.6%	39.335	N	16.468	E	10	G		0.7	8	SOUTHERN ITALY	
18	10	08	02.4%	40.641	N	22.978	E	5	G		0.4	8	GREECE. MD 2.4 (THE).	
18	10	21	06.5?	3.98	N	76.44	W	110	G		0.2	6	COLOMBIA. MD 3.0 (UVC).	
18	10	30	10.8?	3.81	N	76.98	W	33	N		0.3	5	COLOMBIA. MD 2.8 (UVC).	
18	10	42	17.9*	26.483	N	67.824	E	33	N	4.8	1.3	13	PAKISTAN	
18	10	53	06.6%	44.058	N	7.613	E	10	G		0.1	7	NORTHERN ITALY. ML 1.8 (GEN).	
18	12	28	24.1?	14.34	N	91.37	W	77	?	4.4	1.6	10	GUATEMALA	
18	12	41	43.8%	58.959	N	152.966	W	66				36	KODIAK ISLAND REGION. <AEIC>.	
18	13	00	25.6?	14.47	N	91.24	W	33	N		0.3	4	GUATEMALA	
18	13	05	41.7	24.611	N	122.903	E	117		5.0	0.8	85	TAIWAN REGION	
18	13	35	12.0?	50.38	N	6.10	E	10	G		0.3	4	GERMANY	
18	14	12	50.7	44.341	N	15.120	E	10	G		1.0	15	NORTHWESTERN BALKAN REGION. MD 3.1 (TRI), ML 3.1 (VIE).	
18	15	52	01.6*	39.294	N	21.753	E	10	G		1.6	8	GREECE. MD 3.0 (THE).	
18	15	53	07.3%	43.940	N	7.761	E	5	G		0.4	7	NEAR SOUTH COAST OF FRANCE. ML 1.8 (GEN).	
18	15	59	49.8%	59.957	N	152.492	W	97				44	SOUTHERN ALASKA. <AEIC>.	
18	16	19	08.7%	23.590	N	121.665	E	10	G		0.9	7	TAIWAN	
18	16	35	50.1*	3.221	S	150.609	E	33	N	4.5 4.3	0.9	10	NEW IRELAND REGION, P.N.G.	
18	17	07	03.1	45.399	N	20.894	E	10	G		1.2	13	NORTHWESTERN BALKAN REGION	
18	17	07	08.3?	48.12	N	7.69	E	10	G		0.1	4	FRANCE. ML 2.3 (LDG).	
18	17	08	17.5	38.289	N	21.898	E	10	G	3.9 3.4	1.4	33	GREECE. MD 3.7 (THE), 3.7 (ATH).	
18	18	00	27.7%	59.996	N	152.923	W	107				42	SOUTHERN ALASKA. <AEIC>.	
18	18	44	32.9?	34.62	S	179.84	E	213	?	4.6	1.6	24	SOUTH OF KERMADEC ISLANDS	
18	20	47	48.9%	58.152	N	142.757	W	10	G			26	GULF OF ALASKA. <AEIC>. ML 2.8 (AEIC).	
18	21	03	58.2%	47.997	N	6.580	E	10	G		0.5	8	FRANCE ML 2.3 (LDG).	
18	22	36	33.9?	4.92	S	145.55	E	33	N	4.2	1.6	8	NEAR N COAST OF NEW GUINEA, PNG ML 4.5 (PMG).	
18	23	24	43.3%	39.292	N	21.679	E	10	G		0.5	5	GREECE. MD 2.8 (THE).	
18	23	34	47.9	14.568	N	90.953	W	5	G	4 7 4 3	1.3	30	GUATEMALA Felt in the Pachuta-Solala area. Also felt at Guatemala City	
19	00	09	19.2?	3.78	N	76.98	W	33	N		0.2	5	COLOMBIA MD 3.1 (UVC).	

19	00 31 32.2*	2.911 N	96.053 E	33 N	0 8	8	NORTHERN SUMATERA, INDONESIA
19	01 07 48.2*	31.131 S	177.590 W	59 D	5 2	1.5	25 KERMADEC ISLANDS REGION
19	01 35 55.4*	57.672 N	154.786 W	33			16 KODIAK ISLAND REGION <AEIC>. ML 3.0 (AEIC).
a 19	01 41 48.0	48.818 N	154.870 E	35 D	5 6 4.8	1.0	287 KURIL ISLANDS
19	02 14 09.2	36.143 N	35.861 E	10 G	4 4	1 0	28 TURKEY. ML 4.6 (CSS).
19	02 55 42.1	13.511 N	92.138 W	36	4.9 4 6	1.1	91 OFF COAST OF CHIAPAS, MEXICO
19	04 20 09.2*	3.70 N	77.02 W	90 G		0.3	4 NEAR WEST COAST OF COLOMBIA. MD 2.5 (UVC).
19	04 23 56.7	26 323 N	92.211 E	33 N	4 7	1.7	22 NORTHEASTERN INDIA. Felt at Gauhati.
19	04 58 36.6	35.921 N	69.862 E	99 *	5.0	1.0	140 HINDU KUSH REGION, AFGHANISTAN
19	05 00 34.1*	4.23 N	76.96 W	33 N		0 5	5 COLOMBIA. MD 2.8 (UVC).
19	06 54 01.5*	36.898 N	121.653 W	4			14 CENTRAL CALIFORNIA. <BRK>. ML 3.1 (BRK)
19	06 56 29.4	28.207 N	55.270 E	51 *	4.6	1.3	25 SOUTHERN IRAN
19	07 20 07.8*	36.897 N	121.648 W	5			13 CENTRAL CALIFORNIA. <BRK>. ML 2.4 (BRK).
19	07 28 29.7	3.453 S	133.968 E	17 D	5.2	1.0	33 IRIAN JAYA REGION, INDONESIA
19	07 34 05.0*	45.420 N	20.947 E	10 G		1.1	7 NORTHWESTERN BALKAN REGION. MG 3.4 (BEO).
19	08 13 40.0*	28.197 N	55.253 E	51 ?	4.3	1.5	16 SOUTHERN IRAN
19	09 06 18.5*	36.900 N	121.650 W	6			24 CENTRAL CALIFORNIA. <BRK>. ML 4.5 (BRK). Mo=4.1+10**15 Nm (BRK). Felt (V) at Aptos, Aramas and Morgan Hill. Felt (IV) at Gilroy, Mount Herman, Santa Clara, Santa Cruz and Soquel. Felt from Marin County south as far as the San Luis Obispo area.
19	09 07 56.2*	36.883 N	121.663 W	1			19 CENTRAL CALIFORNIA. <BRK>. ML 4.5 (BRK). Mo=4.4+10**15 Nm (BRK). Felt from Marin County south as far as the San Luis Obispo area.
19	10 05 27.9*	2.31 N	98.74 W	10 G	4.4	0.7	8 WEST OF GALAPAGOS ISLANDS
19	10 50 37.1*	4.31 N	76.93 W	33 N		0.9	6 COLOMBIA. MD 3.5 (UVC).
19	12 20 46.5*	44.38 N	7.39 E	10 G		0.3	4 NORTHERN ITALY
19	13 03 55.4*	35.822 N	121.302 W	10			16 CENTRAL CALIFORNIA. <BRK>. ML 3.3 (BRK).
19	15 18 41.2*	0.525 N	78.653 W	33 N		1.5	15 COLOMBIA-ECUADOR BORDER REGION. MD 4.4 (QUI). Felt at Cotacachi, Ecuador.
19	15 59 10.0*	10.73 N	62.23 W	70 G		0.6	8 NEAR COAST OF VENEZUELA. MD 3.3 (TRN).
19	16 20 27.8	47.458 N	115.803 W	1 G		0.2	12 MONTANA. ML 3.0 (GS). Felt (IV) at Mullian, Idaho.
19	16 30 00.0*	37.236 N	116.166 W	0	4.0		36 SOUTHERN NEVADA. <DOE>. ML 3.8 (BRK). Tunnel Shot. 37' 14" 08.62" N., 116' 09" 59.16" W., Surface Elev. 1948 m., Depth of Burial 264 m., Shot time 163000.067. "DISTANT ZENITH," Nevada Test Site (Dept. of Energy).
19	18 38 02.1*	51.319 N	15.910 E	10 G		0.7	11 POLAND. ML 3.3 (GRF).
19	20 57 41.6*	20 98 S	169.60 E	140 ?	4.4	1.6	21 VANUATU ISLANDS
19	21 35 02.7	58.723 N	155.140 W	159	4.4	0.9	102 ALASKA PENINSULA
19	22 50 12.0*	57.116 N	153.903 W	71			52 KODIAK ISLAND REGION. <AEIC>.
19	23 46 59.0*	63 073 N	151.233 W	14			56 CENTRAL ALASKA. <AEIC>. ML 3.0 (AEIC). 3.2 (PMR).
20	00 57 34.8	41.894 N	23.262 E	10 G		0.9	13 GREECE-BULGARIA BORDER REGION. MD 3.0 (THE).
20	03 01 43.3*	10.670 N	60.701 W	33 N		0.8	8 TRINIDAD. MD 2.9 (TRN).
20	03 18 04.5*	40.288 N	124.530 W	6			3 NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.3 (BRK).
20	03 36 23.2*	40.287 N	124.545 W	5			3 NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.3 (BRK).
20	04 06 53.9*	36.82 N	3.04 W	10 G		0.0	4 STRAIT OF GIBRALTAR. mbLg 2.3 (MDD).
20	06 24 40.4*	61.336 N	140.798 W	0			37 SOUTHERN YUKON TERRITORY, CANADA. <AEIC>. ML 3.2 (AEIC).
20	06 40 03.3*	40.242 N	124.642 W	1			3 NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.0 (BRK).
20	06 44 11.4*	40.263 N	124.482 W	4			17 NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.4 (BRK). Felt (IV) at Honeydew. Also felt in the Ferndale area.
20	07 05 54.7*	34.03 S	179.93 E	33 N	4.7 4.7	1.1	9 SOUTH OF KERMADEC ISLANDS
20	08 32 48.5*	40.278 N	124.447 W	4			4 NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.0 (BRK).
20	09 35 42.3*	15.36 S	72.66 W	33 N		0.0	5 SOUTHERN PERU
20	09 37 42.5*	44.832 N	90.332 E	33 N	4.8	1.0	30 NORTHERN XINJIANG, CHINA
20	09 52 09.6*	39.310 N	114.097 E	10 G		1.5	5 NORTHEASTERN CHINA. ML 3.9 (BJI).
20	10 05 28.9*	2.391 N	98.895 W	10 G	4.4	0.7	18 WEST OF GALAPAGOS ISLANDS
20	10 06 57.3*	1.899 N	99.170 W	10 G	4.6	0.9	17 WEST OF GALAPAGOS ISLANDS
20	10 28 05.5*	28.72 N	131.39 E	33 N	4.3	1.2	9 SOUTHEAST OF RYUKYU ISLANDS
20	10 59 45.7*	4.37 N	76.16 W	33 N		1.2	6 COLOMBIA. MD 3.6 (UVC).
20	11 16 11.5	36.191 N	100.063 E	13 D	5.5 5.0	1 0	218 QINGHAI, CHINA. ML 5.1 (BJI).
20	11 20 26.0*	40.285 N	124.515 W	10			6 NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.3 (BRK).
20	11 37 37.1*	39.261 N	29.129 E	10 G		0.5	7 TURKEY
20	12 07 22.5*	40.323 N	124.400 W	6			3 NEAR COAST OF NORTHERN CALIF. <BRK>. ML 3.0 (BRK).
20	12 11 40.0*	2 430 S	98.857 W	10 G	4.6	1.0	21 WEST OF GALAPAGOS ISLANDS
20	12 24 21.5*	5 428 S	146.448 E	146	5.1	0.9	22 EASTERN NEW GUINEA REG., P.N.G.
20	12 26 53.0*	9.827 N	93.411 E	33 N	4.7	0.9	11 NICOBAR ISLANDS, INDIA
20	12 44 47.3*	6 70 N	72.87 W	151 *		1.6	16 NORTHERN COLOMBIA
20	12 53 07.7	1.751 N	123.009 E	32 D	4.6	1.0	31 MINAHASSA PENINSULA, SULAWESI
20	13 49 31.5	45.574 N	9.733 E	11		0.9	54 NORTHERN ITALY. ML 3.2 (LDG), 3.2 (STR), 2.7 (VIE).
a 20	14 37 02.9*	56.736 N	152.798 W	1 G			36 KODIAK ISLAND REGION. <AEIC>. ML 3.7 (AEIC).
20	14 47 46.4	6.486 E	129.850 E	180 D	5.4	1.1	111 BANDA SEA
20	15 19 34.4*	48.00 N	6.43 E	5 G		1.5	4 FRANCE. ML 2.2 (LDG).
20	16 05 54.4*	48.008 N	6.464 E	5 G		1.4	6 FRANCE. ML 2.3 (LDG).
20	16 16 53.5*	44.37 N	7.36 E	10 G		0.2	4 NORTHERN ITALY. ML 1.4 (GEN).
20	16 24 58.2*	15.54 N	61.33 W	100 G		0.9	6 LEEWARD ISLANDS
20	16 55 22.1*	43.171 N	120.477 W	21			40 OREGON. <SEA>. MD 3.3 (SEA).
20	17 10 08.9*	0.656 N	123.777 E	286 *	4.4	0.7	15 MINAHASSA PENINSULA, SULAWESI
20	17 48 01.7*	42.51 N	125.19 W	10 G		0.5	31 OFF COAST OF OREGON
20	18 04 12.8*	11.60 N	59.97 W	33 N		0.4	6 NORTH ATLANTIC OCEAN. MD 3.9 (TRN).
20	19 38 28.2*	13.746 N	92.989 W	33 N	4.6	1.4	9 OFF COAST OF CHIAPAS, MEXICO
20	19 54 35.1	37.593 N	14.862 E	16	3.5	1.0	23 SICILY. MD 3.5 (ROM).
20	19 55 59.1*	1.390 S	126.743 E	33 N	4.7	1.5	18 SOUTHERN MOLUCCA SEA
20	20 55 36.1	42.403 N	144.377 E	79	4.5	0.8	18 HOKKAIDO, JAPAN REGION
20	21 52 16.9	40.109 N	23.579 E	10 G		1 1	21 GREECE MD 3.2 (THE).
20	22 30 20.4*	57.664 N	142.962 W	10 G			81 GULF OF ALASKA. <AEIC>. ML 3.9 (AEIC), 3.8 (PMR).
20	22 34 03.8*	3.790 N	77.023 W	32 *		0.5	7 NEAR WEST COAST OF COLOMBIA. MD 4.1 (UVC).
20	23 33 50.1*	37.448 N	118.857 W	4			11 CALIFORNIA-NEVADA BORDER REGION. <BRK>. ML 3.4 (BRK).
21	00 04 10.3*	62.231 N	148.836 W	34			79 CENTRAL ALASKA. <AEIC>. ML 3.0 (AEIC), 3.1 (PMR).
21	00 08 41.7*	17.41 N	61.58 W	33 N		0 4	7 LEEWARD ISLANDS. ML 3.1 (FDF).
21	00 52 14.8*	23.944 N	121.858 E	10 G		0 4	5 TAIWAN
21	01 46 47.3*	55.483 S	28.962 W	33 N	5 1	0 8	12 SOUTH SANDWICH ISLANDS REGION
21	02 19 56.8*	18.198 N	67.180 W	10 G		0 3	6 MONA PASSAGE

21	04 35 42.0&	61.410 N	150.612 W	50				41	SOUTHERN ALASKA	<AEIC>.	ML 2.7 (AEIC).
21	04 56 55.2*	41.157 N	20.376 E	10 G				1 4	8	ALBANIA	
21	05 56 27.0%	60.895 N	3.254 E	10 G				0 8	7	NORTH SEA.	MD 2.0 (BER).
21	06 30 02.3?	3.72 N	76.94 W	33 N				0.2	5	COLOMBIA	MD 3.0 (UVC).
21	06 48 49.9%	37.947 N	1.866 W	10 G				1 1	7	SPAIN.	mbLg 3.0 (MDD).
21	06 52 58.1*	12.114 S	117.610 E	33 N	4.2			1 4	8	SOUTH OF SUMBAWA,	INDONESIA
21	07 15 57.7*	32.148 N	49.033 E	33 N	4.5			0 4	7	WESTERN IRAN	
21	07 19 59.0	44.911 N	6.796 E	10 G				0 5	24	FRANCE.	ML 2.8 (LDG), 2.7 (GEN)
21	07 27 32.0&	57.660 N	143.154 W	10 G					29	GULF OF ALASKA.	<AEIC>.
21	07 39 24.4?	44.42 N	7.33 E	10 G				0.1	4	NORTHERN ITALY.	ML 3.0 (AEIC).
21	07 56 46.6*	25.294 S	71.064 W	33 N				1 2	7	OFF COAST OF NORTHERN CHILE	
21	08 00 37.9	44.904 N	6.778 E	10 G				0.6	20	FRANCE.	ML 2.3 (GEN), 2.2 (LDG).
21	08 07 20.1%	61.336 N	4.028 E	10 G				0.3	7	SOUTHERN NORWAY.	MD 1.6 (BER).
21	08 08 38.5	18.620 N	145.375 E	594	4.9			0.8	114	MARIANA ISLANDS	
21	08 16 34.7?	18.09 N	67.35 W	33 N				0.8	7	MONA PASSAGE	
21	09 16 38.6*	38.473 N	20.437 E	10 G				1.1	10	GREECE	
21	09 44 44.3&	40.707 N	124.617 W	19	3.9				24	NEAR COAST OF NORTHERN CALIF.	<BRK>.
											ML 3.5 (BRK).
											MD 3.9 (GM).
21	10 00 49.8?	36.44 N	8.47 W	10 G				1.0	6	Felt (11) at Rio Dell.	
21	11 05 27.2?	17.19 N	60.85 W	10 G				0.1	5	WEST OF GIBRALTAR.	MD 3.2 (RBA).
21	11 07 45.5	38.775 N	23.477 E	5 G				1.2	7	LEEWARD ISLANDS.	ML 3.0 (FDF).
21	11 16 50.4?	36.77 N	18.77 E	10 G				1.5	5	GREECE.	ML 3.2 (ATH).
21	13 15 22.8*	0.977 N	123.655 E	33 N	4.2			0.6	9	CENTRAL MEDITERRANEAN SEA	
21	13 42 13.3%	43.467 N	12.479 E	10 G				1.0	5	MINAHASSA PENINSULA,	SULAWESI
21	14 16 07.6&	63.090 N	150.843 W	122					55	CENTRAL ITALY	
21	14 22 37.5?	50.46 N	179.14 W	33 N	4.4			1.6	19	CENTRAL ALASKA.	<AEIC>.
21	14 31 52.1&	37.474 N	121.812 W	2					19	ANDREANOF ISLANDS,	ALEUTIAN IS.
f 21	15 19 48.1	16.232 S	173.004 W	17 G	5.8 5.7			1.0	11	CENTRAL CALIFORNIA.	<GM-P>.
									361	MD 2.6 (GM).	
											TONGA ISLANDS.
											Ms 6.0 (BRK).
											Mo=3.0*10**18 Nm (PPT).
											Depth from broadband displacement seismograms.
21	15 28 24.0*	33.634 S	71.836 W	24				0.4	10	NEAR COAST OF CENTRAL CHILE	
21	15 34 14.2&	62.369 N	124.232 W	10 G					16	NORTHWEST TERRITORIES,	CANADA.
21	15 35 43.6&	49.130 N	126.402 W	37					51	PGC>.	ML 4.3 (PGC).
21	15 37 06.4	23.849 N	114.492 E	33 N	4.2			1.0	15	VANCOUVER ISLAND REGION.	<PGC>.
21	16 13 36.9*	8.515 S	106.694 E	33 N	5.1			1.2	33	ML 2.8 (PGC).	
21	16 15 40.3&	59.994 N	153.123 W	129					67	NEAR SOUTHEASTERN COAST OF CHINA	
21	16 44 58.8?	15.60 S	173.10 W	33 N	4.3			1.5	9	SOUTH OF JAWA,	INDONESIA
21	16 59 24.0%	11.165 N	61.758 W	33 N				0.6	6	SOUTHERN ALASKA.	<AEIC>.
21	17 16 54.8?	4.22 N	76.16 W	33 N				1.2	5	TONGA ISLANDS	
21	17 57 38.2	9.846 S	119.326 E	58 *	4.6			1.3	14	WINDWARD ISLANDS.	MD 3.1 (TRN).
21	18 20 37.2	36.451 N	71.092 E	227 D	4.6			1.0	5	COLOMBIA.	MD 3.4 (UVC).
									149	SUMBA REGION,	INDONESIA
											AFGHANISTAN-TAJIKISTAN BORD REG.
											Felt at Kabul,
											Afghanistan
21	18 34 59.4&	59.287 N	154.669 W	5					52	SOUTHERN ALASKA.	<AEIC>.
a 21	19 01 32.8	11.014 N	60.938 W	84	4.6			1.0	139	ML 3.3 (AEIC), 3.8 (PMR).	
											WINDWARD ISLANDS.
											MD 4.9 (TRN).
											Felt (11) on
											Martinique. Also felt on
											Trinidad, Tobago and St.
											Vincent.
21	19 21 58.1?	38.81 N	23.97 E	5 G				0.3	7	GREECE	
21	19 52 27.7&	57.764 N	142.836 W	10 G					5	GULF OF ALASKA.	<AEIC>.
21	20 19 21.0	38.049 N	134.559 E	414	4.8			0 8	141	ML 2.5 (AEIC).	
21	22 09 18.9?	10.87 N	62.33 W	33 N				0.3	6	SEA OF JAPAN	
21	22 20 23.3	33.998 N	25.636 E	10 G	4 0			0.7	18	NEAR COAST OF VENEZUELA.	MD 2.9 (TRN).
21	22 44 48.7*	40.076 N	25.284 E	10 G				1.1	10	EASTERN MEDITERRANEAN SEA.	ML 4.1 (CSS).
21	22 45 30.1&	61.228 N	158.592 W	10 G					13	AEIGAN SEA	
21	23 16 48.7?	37.88 N	7.22 E	33 N				0.8	17	SOUTHERN ALASKA.	<AEIC>.
21	23 23 50.7*	42.861 N	6.320 E	10 G				1.0	19	ML 2.7 (AEIC).	
22	00 11 21.6?	3.59 N	76.20 W	110 G				0.3	4	WESTERN MEDITERRANEAN SEA.	ML 3.6 (LDG).
22	00 11 54.9?	18.60 N	68.10 W	10 G				0.5	6	WESTERN MEDITERRANEAN SEA	
22	02 08 20.0	39.650 N	51.840 E	64 D	4.8			0.9	149	COLOMBIA.	MD 2.7 (UVC).
22	02 17 56.1*	38.660 N	20.493 E	10 G				1.3	7	MONA PASSAGE	
22	02 31 59.1	2.261 N	128.477 E	244	4.9			0.8	49	CASPIAN SEA	
22	02 52 32.4%	35.254 N	3.637 W	10 G				0.9	7	GREECE	MD 3.2 (ATH).
22	03 03 49.6%	40.097 N	28.275 E	10 G				0.7	6	HALMAHERA,	INDONESIA
22	03 30 31.4?	16.09 S	177.43 E	33 N				1.0	8	STRAIT OF GIBRALTAR.	mbLg 2.8 (MDD).
22	04 07 16.7?	16.19 S	177.53 E	33 N				0.4	6	TURKEY	
22	04 37 41.8?	19.20 N	67.69 W	10 G				0.3	6	FIJI ISLANDS.	ML 4.2 (SVA).
22	05 19 31.2*	38.974 N	29.928 E	10 G				1.2	7	FIJI ISLANDS	ML 4.3 (SVA).
22	05 21 47.6?	15.52 S	172.87 W	107 ?	4.5			1.5	9	MONA PASSAGE	
22	05 22 46.8?	45.46 N	14.27 E	10 G				1.0	4	TURKEY	
22	05 42 27.8	30.165 N	67.799 E	10 G	4.9			0.9	80	SAMOA ISLANDS REGION	
22	06 26 18.8?	44.20 N	12.00 E	10 G				0.3	4	NORTHWESTERN BALKAN REGION.	MD 1.8 (TRI).
22	06 32 37.3	49.644 N	156.549 E	30 D	5.5 4.7			0.8	271	PAKISTAN.	Felt at Quetta.
22	06 47 59.3?	6.56 S	129.94 E	151 ?	4.6			0.3	4	NORTHERN ITALY	
22	07 00 16.8?	18.66 N	68.28 W	10 G				0.3	6	KURIL ISLANDS	
22	07 20 54.2?	31.95 S	70.50 W	110 G				0.4	8	BANDA SEA	
22	07 57 41.8%	11.243 N	61.899 W	105 ?				0.3	9	MONA PASSAGE	
22	08 05 13.3*	45.060 N	5.792 E	10 G				0.7	6	CHILE-ARGENTINA BORDER REGION	
22	08 18 27.4%	40.496 N	30.494 E	10 G				0.8	6	WINDWARD ISLANDS.	MD 3.5 (TRN).
22	11 24 19.7&	59.199 N	152.171 W	62					9	FRANCE.	ML 2.2 (LDG).
22	11 33 24.2*	32.939 S	71.080 W	66 ?				0 4	10	FRANCE.	ML 2.1 (GEN).
22	11 34 31.2	41.890 N	22.893 E	10 G				0.8	7	FRANCE.	ML 2.1 (GEN).
22	11 40 21.6?	32.51 S	70.95 W	33 N				0.7	8	LEEWARD ISLANDS.	ML 2.4 (FDF).
22	12 05 31.4	44.239 N	6.347 E	5 G				1.0	6	SOUTHERN ALASKA.	<AEIC>.
22	12 52 38.8%	44.674 N	6.714 E	10 G				1.6	4	ML 2.5 (AEIC).	
22	12 58 48.0?	16.02 N	60.66 W	33 N				0.2	7	FRANCE.	ML 2.1 (LDG).
22	13 22 32.3&	61.351 N	150.736 W	50					7	TURKEY	
22	13 25 13.2?	48.00 N	6.43 E	5 G				0 7	12	HALMAHERA,	INDONESIA
22	13 43 08.1%	41.127 N	28.473 E	10 G					44	CENTRAL ALASKA.	<AEIC>.
22	16 03 30.9*	1.733 N	128.723 E	65 *	4 8			0 7	18	ML 2.8 (AEIC).	
22	16 08 02.9&	63.181 N	151.690 W	12				1.0	27	NORTHERN COLOMBIA	
22	16 09 36.9*	6.935 N	73.114 W	157	4.3			1.2	13	NORTH OF MACOUARIE ISLAND	
22	18 01 44.7?	49.46 S	159.69 E	10 G	4.1				4	SOUTHERN ALASKA.	<AEIC>
22	19 02 51.3&	60.420 N	152.756 W	122				0 6	4	COLOMBIA	MD 2.8 (UVC).
22	19 31 47.8?	3.99 N	76.13 W	33 N				1 3	7	MINDANAO,	PHILIPPINE ISLANDS
22	20 35 59.7?	5.81 N	126.86 E	55 ?	3.9						

22	20	37	28.2%	45.092 N	2.914 E	10 G	0.9	8	FRANCE. ML 2.1 (LDG).	
22	22	51	33.5%	48.140 N	2.914 W	10 G	0.8	18	FRANCE. ML 3.3 (LDG).	
22	23	19	18.6%	15.245 N	60.641 W	32 *	0.2	9	LEEWARD ISLANDS. ML 2.6 (FDF).	
22	23	51	39.2%	53.426 N	35.126 W	10 G	4.7 4.1	0.7	19	NORTH ATLANTIC OCEAN
23	00	23	26.6%	22.77 S	70.77 W	33 N	1.3	5	NEAR COAST OF NORTHERN CHILE	
23	00	36	14.0%	46.299 N	2.767 E	10 G	0.5	6	FRANCE. ML 1.8 (LDG).	
23	00	57	13.1%	19.74 S	71.76 W	33 N	1.3	5	OFF COAST OF NORTHERN CHILE	
23	01	36	49.6%	39.455 N	26.641 E	10 G	0.6	6	TURKEY	
23	01	58	07.8%	39.478 N	27.784 E	10 G	0.5	5	TURKEY	
23	02	06	50.1%	4.17 N	76.96 W	33 N	1.2	5	COLOMBIA. MD 2.4 (UVC).	
23	02	20	22.3%	47.115 N	116.523 W	1 G	0.5	22	WESTERN IDAHO. MD 2.4 (SEA).	
23	02	37	37.2%	7.018 N	77.919 W	34 ?	1.1	9	PANAMA-COLOMBIA BORDER REGION	
23	03	23	11.8%	36.843 N	121.643 W	3		11	CENTRAL CALIFORNIA <BRK> ML 2.3 (BRK).	
23	03	34	16.4%	37.38 N	47.87 E	33 N	0.9	6	NORTHWESTERN IRAN	
23	04	06	39.7%	13.80 N	92.84 W	33 N	4.5	1.1	9	OFF COAST OF CHIAPAS, MEXICO
23	04	11	25.5%	40.436 N	16.836 E	10 G	1.3	10	SOUTHERN ITALY	
23	04	39	03.2%	60.670 N	141.570 W	9		4	SOUTHEASTERN ALASKA. <AEIC> ML 2.8 (AEIC).	
23	05	26	46.2%	63.308 N	149.678 W	99		34	CENTRAL ALASKA. <AEIC>.	
23	06	54	26.9	4.504 N	76.827 W	88 ?	0.6	6	COLOMBIA. MD 3.5 (UVC).	
23	06	58	30.0	45.542 N	150.727 E	55 D	5.1	117	KURIL ISLANDS	
23	07	37	11.3%	13.92 N	90.95 W	33 N	4.3	1.4	9	NEAR COAST OF GUATEMALA
23	08	09	33.6%	4.21 N	76.97 W	33 N		0.4	5	COLOMBIA. MD 2.7 (UVC).
23	08	11	18.7%	13.14 N	60.42 W	33 N		0.2	4	WINDWARD ISLANDS. MD 3.1 (TRN).
23	08	24	14.3%	59.910 N	151.969 W	57		56	KENAI PENINSULA, ALASKA. <AEIC>. ML 3.1 (AEIC).	
23	08	28	21.3%	3.43 N	74.12 W	33 N		0.9	5	COLOMBIA. MD 4.0 (UVC).
23	10	41	38.5%	17.611 S	173.578 W	10 G	5.0 4.5	0.8	13	TONGA ISLANDS
23	12	16	43.4%	60.137 N	152.703 W	108		59	SOUTHERN ALASKA. <AEIC>.	
23	12	38	30.1%	3.83 N	76.22 W	94 ?		0.6	6	COLOMBIA. MD 3.2 (UVC).
23	13	52	56.4	44.143 N	7.011 E	10		0.3	13	NORTHERN ITALY. ML 2.1 (GEN).
23	14	07	02.8%	54.796 N	161.721 E	33 N	4.5	0.5	7	NEAR EAST COAST OF KAMCHATKA
23	14	34	24.8	27.041 N	140.357 E	478 *	4.5	0.6	35	BONIN ISLANDS REGION
23	14	55	10.1%	35.980 N	118.360 W	5			13	CENTRAL CALIFORNIA <PAS-P>. ML 3.4 (PAS).
23	14	59	37.8	43.379 N	5.466 E	5 G		1.0	11	NEAR SOUTH COAST OF FRANCE. ML 3.0 (STR).
23	15	16	20.3%	9.612 N	84.715 W	10 G	5.0 4.0	1.2	17	COSTA RICA. Felt (IV) at Jaco and (II) at San Jose. Felt along the central Pacific coast and in the Central Valley.
23	15	40	49.8%	3.419 N	73.824 W	33 N		0.6	6	COLOMBIA. MD 4.0 (UVC).
23	15	48	48.4	2.354 N	128.333 E	136 *	5.1	0.8	40	HALMAHERA, INDONESIA
23	18	30	26.1	39.815 N	25.603 E	10 G		0.6	22	AEGEAN SEA. MD 3.2 (ATH).
23	19	20	26.3%	64.732 N	21.432 E	10 G		1.1	9	SWEDEN. ML 3.5 (UPP). Felt at Vasterbotten.
23	19	23	49.3%	4.72 N	76.15 W	100 G		0.7	5	COLOMBIA. MD 3.0 (UVC).
23	19	46	50.9%	39.347 N	27.969 E	10 G		0.6	8	TURKEY
23	20	43	09.3%	44.646 N	17.328 E	10 G		1.3	9	NORTHWESTERN BALKAN REGION ML 3.3 (ZAG).
23	20	53	55.8%	45.982 N	2.741 E	10 G		0.8	13	FRANCE. ML 2.5 (LDG).
23	21	19	56.7	21.185 S	120.799 E	10 G		0.9	11	WESTERN AUSTRALIA
23	22	27	37.4%	48.44 N	1.99 W	10 G		0.7	4	FRANCE. ML 2.2 (LDG).
23	23	08	14.2%	60.251 N	153.757 W	135			51	SOUTHERN ALASKA. <AEIC>.
24	00	04	10.7%	37.703 N	14.972 E	11		1.0	17	SICILY. MD 2.9 (ROM)
24	02	10	55.4%	18.381 N	66.199 W	10 G		0.8	5	PUERTO RICO REGION
24	03	14	22.8%	24.441 S	67.736 W	112 ?	4.2	1.3	8	CHILE-ARGENTINA BORDER REGION
24	04	33	07.1%	3.95 N	76.96 W	33 N		0.4	4	COLOMBIA. MD 2.6 (UVC).
24	04	36	53.3%	27.973 S	148.390 E	10 G		0.9	9	QUEENSLAND, AUSTRALIA. ML 3.9 (QLP), 3.8 (CNB). Felt at St. George.
24	04	38	41.5%	8.032 S	116.554 E	182 *	4.5	1.2	22	SUMBAWA REGION, INDONESIA
24	04	56	29.3	9.430 N	78.470 W	79 D	4.7	1.0	87	PANAMA. Felt (III) at Panama City, Arraijan and Vera Cruz.
24	05	06	02.8	6.551 S	130.230 E	84 D	5.3	0.8	72	BANDA SEA
24	05	57	44.0%	45.356 N	7.384 E	10 G		0.6	6	NORTHERN ITALY. ML 2.2 (GEN).
24	06	24	29.2%	59.264 N	153.350 W	92	4.0		96	SOUTHERN ALASKA. <AEIC>.
24	06	57	08.3%	26.294 S	28.077 E	5 G		0.6	5	REPUBLIC OF SOUTH AFRICA. mblg 3.4 (BUL).
24	07	21	06.4	35.711 N	84.095 W	5 G		1.0	15	TENNESSEE. mblg 3.0 (GS). MD 3.3 (TEIC). Felt (IV) at Friendsville, Louisville, Maryville and Tallassee. Felt (III) at Alcoa and Greenback
24	08	11	44.4%	3.753 N	76.195 W	55 ?		0.8	6	COLOMBIA. MD 3.2 (UVC)
24	08	13	02.3%	45.32 N	125.72 W	10 G		0.4	19	OFF COAST OF OREGON
24	08	31	22.2%	40.46 N	28.82 E	10 G		0.1	4	TURKEY
24	10	11	15.8%	8.46 S	122.18 E	179 ?	4.8	0.6	18	FLORES REGION, INDONESIA
24	10	15	53.6%	44.318 N	8.030 E	10 G		0.2	5	NORTHERN ITALY ML 1.9 (GEN).
24	10	45	05.1%	4.64 N	76.11 W	100 G		0.7	5	COLOMBIA. MD 2.8 (UVC).
24	11	11	22.5	43.664 N	148.286 E	33 N	4.9	1.2	46	EAST OF KURIL ISLANDS
24	11	18	41.4%	33.05 S	179.46 E	196 ?	4.5	1.5	15	SOUTH OF KERMADEC ISLANDS
24	11	30	39.5%	17.994 S	167.421 E	33 N	4.1	1.0	7	VANUATU ISLANDS
24	11	53	46.0	34.442 N	32.179 E	10 G		1.1	8	CYPRUS REGION. MD 3.9 (HLW). ML 3.8 (CSS).
24	12	32	06.1%	11.064 N	62.060 W	33 N		0.6	8	WINDWARD ISLANDS MD 3.3 (TRN).
24	12	42	48.8%	30.58 N	82.88 E	33 N		1.1	6	XIJANG
24	14	07	36.0%	44.372 N	7.374 E	10 G		0.4	5	NORTHERN ITALY ML 1.7 (GEN).
24	14	08	52.6%	35.93 S	179.89 W	220 *	4.3	1.0	28	EAST OF NORTH ISLAND, N.Z.
24	14	24	37.2	39.189 N	20.571 E	10 G		1.1	18	GREECE-ALBANIA BORDER REGION
24	16	21	16.5	44.274 N	7.276 E	10 G		0.6	21	NORTHERN ITALY ML 2.4 (LDG), 2.3 (GEN).
24	17	01	51.7%	10.74 S	165.05 E	33 N	4.4	1.4	6	SANTA CRUZ ISLANDS
24	18	32	58.7%	51.55 N	16.23 E	10 G		0.6	9	POLAND. ML 3.6 (VKA), 3.5 (GRF), 3.4 (KBA).
24	20	05	01.4	53.996 N	164.297 W	33 N	5.0 4.2	0.8	175	UNIMAK ISLAND REGION. ML 5.2 (PMR). Felt (IV) at King Cave and (III) at Cold Bay and False Pass.
24	20	32	50.8%	38.889 N	16.056 E	10 G		0.7	10	SOUTHERN ITALY
24	20	59	19.9%	39.75 N	27.89 E	10 G		0.9	5	TURKEY
24	21	38	03.6	2.890 S	133.871 E	33 N	4.7 4.4	1.0	36	IRIAN JAYA REGION, INDONESIA
24	21	56	06.8%	1.081 S	78.319 W	10 G		0.4	8	ECUADOR. MD 4.0 (QUI).
24	22	02	28.6%	46.852 N	1.045 W	10 G		0.5	9	FRANCE. ML 2.5 (LDG).
24	22	19	00.5%	37.971 N	72.104 E	33 N	4.2	1.0	7	TAJIKISTAN
24	22	47	58.6	43.517 N	17.435 E	13		1.2	46	NORTHWESTERN BALKAN REGION. MD 3.9 (TRI). ML 3.6 (VIE), 3.5 (ZAG), 3.5 (ROM).
24	22	57	23.5	18.629 N	100.885 W	77	4.8	0.9	44	GUERRERO, MEXICO
25	00	04	53.7	43.433 N	5.428 E	10		0.9	18	NEAR SOUTH COAST OF FRANCE. ML 2.5 (STR).

25	00 33 05.2*	8 813 S	118.471 E	153 ?	4.7	1.3	14	SUMBAWA REGION, INDONESIA
25	00 37 00.6*	1 00 S	80.70 W	10 G		1.4	10	NEAR COAST OF ECUADOR, MD 4 1 (QUI).
25	01 05 17.0	41 076 N	22.081 E	10 G		0.9	9	NORTHWESTERN BALKAN REGION
25	02 16 53.1*	2.59 S	129.62 E	33 N	4.2	1.2	7	SERAM, INDONESIA
25	02 34 42.9*	38.896 N	15.962 E	5 G		0.5	10	SICILY
25	02 41 10.7	44.511 N	7.111 E	7		0.3	24	NORTHERN ITALY, ML 2.4 (GEN), 2.3 (LDG).
25	02 42 25.1*	39.372 N	20.528 E	10 G		1.1	7	GREECE-ALBANIA BORDER REGION
25	03 50 56.7*	34 100 N	117.490 W	16			11	SOUTHERN CALIFORNIA, <PAS-P>, ML 3.1 (PAS). Felt at Fontana
25	04 15 38.4*	3 94 N	76.33 W	98 ?		0.3	6	COLOMBIA, MD 3.2 (UVC).
25	05 30 42.1*	60 043 N	152.941 W	117	4.0		87	SOUTHERN ALASKA, <AEIC>.
25	06 11 03.4*	34.33 S	70.83 W	75 G		0.2	9	CHILE-ARGENTINA BORDER REGION
25	06 12 40.6*	38.022 N	15.988 E	10 G		0.9	11	SICILY
25	08 03 48.5*	41.380 N	29.329 E	10 G		0.3	5	TURKEY
25	08 04 40.7*	41.352 N	29.376 E	10 G		0.4	5	TURKEY
25	08 14 25.3*	33.93 S	70.69 W	80 ?		0.1	8	CHILE-ARGENTINA BORDER REGION
25	08 29 57.3*	15.917 N	60.778 W	22		0.3	12	LEEWARD ISLANDS, ML 2.7 (FDF).
25	09 07 28.9*	36.877 N	121.623 W	7			19	CENTRAL CALIFORNIA, <BRK>, ML 3.2 (BRK). Felt (III) at Aptas and Aramas.
25	09 11 25.6*	18.03 N	65.63 W	10 G		0.3	7	PUERTO RICO REGION
25	10 07 55.3*	36.31 S	98.76 W	10 G	4.9	1.5	18	SOUTHERN PACIFIC OCEAN, Ma=1.3*10**18 Nm (PPT).
25	10 41 16.1*	34 417 N	23.794 E	10 G		0.6	7	CRETE
25	10 43 23.2*	60 022 N	153.563 W	138			85	SOUTHERN ALASKA, <AEIC>. Felt (II) at Anchorage.
25	11 16 30.2	20.747 S	174.834 W	33 N	5.2	0.8	54	TONGA ISLANDS
25	11 21 54.1*	45.15 N	2.97 E	10 G		0.9	4	FRANCE, ML 2.0 (LDG).
25	11 30 07.1	45 260 N	21.185 E	33 N		0.8	7	ROMANIA, MG 3.3 (BUC).
25	13 11 19.6*	35 809 N	27.203 E	10 G		1.2	6	DODECANESE ISLANDS, MD 3.7 (ATH).
25	13 21 33.9	38 018 N	16.021 E	15	3.7	0.9	17	SOUTHERN ITALY
25	13 53 32.3*	58.986 N	152.944 W	71			48	KODIAK ISLAND REGION, <AEIC>.
25	14 14 17.3	33 692 S	179.628 E	199 D	5.0	0.9	67	SOUTH OF KERMADEC ISLANDS
25	14 45 05.1	41 949 N	23.078 E	10 G		0.6	8	GREECE-BULGARIA BORDER REGION
25	14 53 45.0	37.994 N	16.033 E	11	3.9	1.0	27	IONIAN SEA
25	15 01 12.0*	45.594 N	26.262 E	169 ?		0.9	15	ROMANIA
25	15 53 02.4*	40.64 N	29.77 E	10 G		0.6	4	TURKEY
25	16 04 59.9	14.925 N	119.695 E	33 N	4.7	0.9	25	LUZON, PHILIPPINE ISLANDS
a 25	17 35 07.7*	15 961 N	61.002 W	33 N		1.0	7	LEEWARD ISLANDS, ML 2.3 (FDF).
a 25	17 43 16.5	23.364 S	178.902 W	410	5.3	1.0	215	SOUTH OF FIJI ISLANDS
25	17 51 08.1*	62 058 N	150.354 W	56			31	CENTRAL ALASKA, <AEIC>, ML 2.5 (AEIC).
25	18 01 19.2*	3.65 N	76.45 W	10 G		0.1	4	COLOMBIA, MD 2.2 (UVC).
25	18 29 49.6*	7.59 S	130.14 E	199 ?	4.8	0.5	6	TANIMBAR ISLANDS REG., INDONESIA
25	18 51 52.7	44 236 N	8.235 E	10 G		0.5	15	NORTHERN ITALY, ML 2.5 (GEN), 2.4 (LDG).
25	18 52 56.8*	44.220 N	8.263 E	10 G		0.3	6	NORTHERN ITALY, ML 2.0 (GEN).
25	18 55 09.0	44.189 N	8.262 E	10 G		0.7	8	NORTHERN ITALY, ML 2.1 (GEN), 2.1 (LDG).
25	18 59 58.1	44.241 N	8.259 E	10 G		0.7	9	NORTHERN ITALY, ML 2.1 (GEN), 2.1 (LDG).
25	19 26 49.2*	26.69 N	88.43 E	33 N		0.1	6	INDIA-BANGLADESH BORDER REGION
25	19 57 06.6*	60.204 N	152.297 W	82			41	SOUTHERN ALASKA, <AEIC>.
25	20 40 21.4*	40.925 N	22.852 E	10 G		0.3	6	GREECE
a 25	20 46 23.9*	56.748 S	147.393 E	16 D	5.2 5.1	1.1	36	WEST OF MACQUARIE ISLAND
25	21 21 47.7	38.008 N	15.991 E	22	3.5	1.0	27	SICILY, ML 3.3 (ROM).
25	21 54 32.0*	36.747 N	121.495 W	6			17	CENTRAL CALIFORNIA, <BRK>, ML 2.9 (BRK). Felt (III) at Aramas. Also felt at Hollister.
25	22 24 20.7*	41.111 N	22.079 E	5 G		0.4	6	NORTHWESTERN BALKAN REGION
25	22 39 02.2*	4.30 N	77.08 W	33 N		0.8	4	NEAR WEST COAST OF COLOMBIA, MD 2.5 (UVC).
25	22 40 45.8*	44.184 N	7.558 E	10 G		0.3	5	NORTHERN ITALY, ML 1.8 (GEN).
25	22 42 35.3*	41.72 N	23.05 E	5 G		0.6	6	GREECE-BULGARIA BORDER REGION
25	23 11 33.5*	39.64 N	27.84 E	10 G		0.6	8	TURKEY
25	23 37 18.9	43.276 N	7.093 W	11 *		0.8	23	SPAIN, mbLg 3.3 (MDD), ML 3.3 (LDG). Felt (III) at Castraverde.
25	23 54 22.4*	36.984 N	29.455 E	10 G		0.7	5	TURKEY
26	00 19 46.6*	40.175 N	27.893 E	10 G		0.5	6	TURKEY
26	00 37 54.7*	15.57 N	77.68 W	10 G		1.0	7	CARIBBEAN SEA, MD 4.3 (HOJ).
26	01 18 00.2	47.985 N	6.459 E	10 G		1.0	16	FRANCE, ML 2.8 (LDG), 2.4 (STR).
26	02 39 40.5*	33.11 S	70.38 W	107 ?		0.5	9	CHILE-ARGENTINA BORDER REGION
26	03 02 20.5*	16.979 N	61.555 W	63 ?		0.4	12	LEEWARD ISLANDS
26	03 58 01.5	44.418 N	7.301 E	12		0.4	21	NORTHERN ITALY, ML 2.6 (LDG), 2.5 (GEN).
26	04 04 58.9	43.280 N	12.828 E	5 G		0.7	11	CENTRAL ITALY
26	05 33 10.8*	6.885 S	125.243 E	556 ?	5.0	0.7	16	BANDA SEA
a 26	05 59 18.6	16.130 N	98.237 W	19 D	5.3 4.7	0.9	116	NEAR COAST OF GUERRERO, MEXICO
26	06 45 55.8	40.466 N	29.243 E	10 G		0.7	8	TURKEY
26	07 29 09.0	46.192 N	7.455 E	16		1.2	22	SWITZERLAND, ML 2.8 (LDG).
26	07 29 28.6*	18.280 N	67.161 W	10 G		1.2	5	MONA PASSAGE
26	07 33 35.8*	39.72 N	29.00 E	10 G		0.8	4	TURKEY
26	07 40 36.1*	10.26 S	160.30 E	90 ?	4.1	1.0	6	SOLOMON ISLANDS
26	07 56 43.0	30.477 S	72.024 W	41 *	4.5	1.0	26	OFF COAST OF CENTRAL CHILE
26	08 46 40.6*	16.276 N	98.050 W	65 *	4.2	1.0	24	NEAR COAST OF GUERRERO, MEXICO
26	09 07 48.4*	47.69 N	3.53 W	10 G		0.8	14	FRANCE, ML 2.8 (LDG).
a 26	09 14 50.4	9.283 S	158.620 E	26 D	5.2 5.1	0.8	85	SOLOMON ISLANDS, Felt at Haniara.
26	10 28 32.3*	36.65 N	29.46 E	5 G		0.8	4	TURKEY
26	10 55 45.0*	34.160 N	117.330 W	9			8	SOUTHERN CALIFORNIA, <PAS-P>, ML 2.6 (PAS). Felt at San Bernardino.
26	11 42 58.9*	63.459 N	150.926 W	13			46	CENTRAL ALASKA, <AEIC>, ML 3.2 (AEIC), 3.6 (PMR).
26	11 58 50.2*	39.334 N	29.052 E	10 G		0.6	9	TURKEY
26	12 23 45.7*	10.91 N	61.13 W	10 G		0.4	4	TRINIDAD, MD 2.9 (TRN).
26	12 43 21.6	36.271 N	140.247 E	88	4.4	1.1	23	NEAR EAST COAST OF HONSHU, JAPAN
26	14 23 35.9*	41.060 N	28.479 E	5 G		0.3	5	TURKEY
26	14 25 09.8*	41.151 N	28.536 E	5 G		0.6	6	TURKEY
26	14 29 30.5*	33.270 N	116.020 W	2			11	SOUTHERN CALIFORNIA, <PAS-P>, ML 3.5 (PAS). Felt at Palm Springs.
26	14 30 53.3*	9.771 N	92.810 E	33 N	4.6	1.3	18	NICOBAR ISLANDS, INDIA
26	14 49 15.7*	3.752 N	95.454 E	33 N	4.6	1.1	6	OFF W COAST OF NORTHERN SUMATERA
26	15 18 36.7	40.463 N	29.048 E	10 G		0.7	10	TURKEY
26	15 22 47.0*	41.01 N	28.41 E	5 G		0.9	4	TURKEY
26	15 32 39.6*	41.810 N	21.011 E	5 G		1.0	11	NORTHWESTERN BALKAN REGION, ML 3.5 (SKO).

26	15	56	47.3%	24	096	N	121.787	E	10	G	0	9	5	TAIWAN		
26	16	45	46.5*	32	183	S	71.186	W	31		0.5	11	NEAR COAST OF CENTRAL CHILE			
26	17	14	33.8	42	490	N	143.761	E	78	4	5	0.9	32	HOKKAIDO, JAPAN REGION		
26	17	58	30.1?	37	61	N	15.16	E	10	G	0.9	4	SICILY			
26	18	01	13.6	26	271	S	27.277	E	5	G	1.1	8	REPUBLIC OF SOUTH AFRICA. mbLg 3 4 (BUL).			
26	18	18	18.6?	16	73	N	120.16	E	33	N	4	5	1.1	7	LUZON, PHILIPPINE ISLANDS	
26	20	14	32.3	39	165	N	21.724	E	5	G	0.8	11	GREECE			
26	20	24	04	0	37	434	N	36.346	E	10	G	4.8	1.2	133	TURKEY	
26	20	38	27.7*	32	469	N	140.567	E	103	?	4.5	1.4	29	SOUTH OF HONSHU, JAPAN		
26	21	29	46.7	4	848	N	72.757	W	22	*	4	1	1.0	10	COLOMBIA	
26	21	36	08.6?	6	37	S	146.33	E	114	*	4.6	1.0	12	EASTERN NEW GUINEA REG., P.N.G.		
26	22	16	25	7	16	117	S	173.245	W	28	D	5.2	5.4	1.0	93	TONGA ISLANDS. Mo=6.0*10**17 Nm (PPT)
26	22	17	43.9	37	673	N	27.105	E	10	G	1.3	13	TURKEY. ML 4.0 (ATH).			
26	22	34	49.8*	63	016	N	150.760	W	106			34	CENTRAL ALASKA. <AEIC>.			
26	22	42	55.3	1	151	S	120.632	E	33	N	5.0	4.8	1.2	35	SULAWESI, INDONESIA	
26	23	55	53.6*	23	812	N	102.475	E	33	N	4.0	1.5	10	YUNNAN, CHINA. ML 3.8 (BJI).		
27	00	37	21.6%	43	058	N	7.176	W	10	G	1.4	6	SPAIN. mbLg 3.3 (MDD).			
27	01	47	18.2?	2	93	N	79.74	W	10	G	0.5	8	SOUTH OF PANAMA. MD 4.2 (QUI).			
27	02	33	17.1	15	218	N	60.460	W	10	G	0.5	7	LEEWARD ISLANDS ML 2.8 (FDF).			
27	03	02	12.4*	57	751	N	156.150	W	83	4.0		81	ALASKA PENINSULA <AEIC>.			
27	06	02	46.3	46	770	N	152.444	E	33	N	4.9	0.8	68	KURIL ISLANDS		
27	06	29	50.2*	36	589	N	71.285	E	221	?	3.9	0.7	12	AFGHANISTAN-TAJIKISTAN BORD REG.		
27	07	05	42.9?	35	90	N	53.33	E	10	G	0.5	6	NORTHERN IRAN			
27	07	39	33.8?	3	82	N	76.97	W	33	N		0.1	4	COLOMBIA. MD 2.5 (UVC).		
27	07	39	55.3	34	645	N	98.874	E	33	N	4.7	1.2	20	QINGHAI, CHINA. ML 4.0 (BJI).		
27	08	38	18.5*	22	153	N	142.108	E	287	?	4.4	0.8	19	VOLCANO ISLANDS REGION		
27	09	46	16.0*	60	743	N	146.473	W	22			50	SOUTHERN ALASKA <AEIC>. ML 2.9 (AEIC), 3.1 (PMR).			
27	10	45	51.6%	37	736	N	14.933	E	10	G	1.4	7	SICILY			
27	11	41	24.5*	45	986	N	11.707	E	10	G	0.3	7	NORTHERN ITALY. ML 2.7 (VIE). MD 2.5 (TRI).			
27	11	56	40.8*	29	911	N	90.423	E	33	N	3.7	0.5	7	XIJANG		
27	12	11	14.7%	36	605	N	1.854	W	5	G	0.4	10	WESTERN MEDITERRANEAN SEA. mbLg 3.3 (MDD).			
27	12	11	23.0	21	414	S	174.117	W	35	D	5.2	5.0	1.1	71	TONGA ISLANDS	
27	12	23	50.2*	33	763	S	71.761	W	10	G	0.4	9	NEAR COAST OF CENTRAL CHILE			
27	13	07	11.6?	31	69	S	69.67	W	164	?		0.5	9	SAN JUAN PROVINCE, ARGENTINA		
27	13	57	52.6%	38	909	N	15.745	E	209	?		0.6	15	SICILY		
27	14	13	04.6*	59	970	N	140.495	W	12			19	SOUTHEASTERN ALASKA. <AEIC>. ML 2.8 (AEIC).			
27	15	04	55.0?	40	92	N	22.91	E	10	G	0.3	4	GREECE			
27	15	07	00.1?	28	81	N	51.03	E	33	N	4.9	1.5	6	SOUTHERN IRAN		
27	15	15	10.8*	60	873	N	147.257	W	23			55	SOUTHERN ALASKA. <AEIC>. ML 2.7 (AEIC).			
27	15	40	41.3%	41	119	N	28.680	E	10	G	0.1	5	TURKEY			
27	16	06	36.9?	44	38	N	7.31	E	10	G	0.1	4	NORTHERN ITALY. ML 1.9 (GEN).			
27	17	04	10.1%	37	726	N	14.959	E	5	G	1.2	5	SICILY			
27	17	06	05.8*	15	681	N	61.783	W	148	?		0.5	13	LEEWARD ISLANDS		
27	17	35	47.2%	38	576	N	15.462	E	33	N		0.7	9	SICILY		
27	17	44	44.4*	23	043	N	93.759	E	33	N		0.4	7	MYANMAR-INDIA BORDER REGION		
27	17	56	02.4?	36	82	N	29.42	E	10	G	1.0	4	TURKEY			
27	18	04	22.4?	44	38	N	1.49	E	10	G	1.3	4	FRANCE. ML 2.1 (LDG).			
27	18	19	07.4*	36	662	N	31.048	E	126	?		1.3	7	TURKEY		
27	19	30	21.9	37	235	N	21.101	E	51	4.3		1.1	83	SOUTHERN GREECE. MD 4.2 (ATH).		
27	19	51	58.0%	37	736	N	14.928	E	10	G	1.1	6	SICILY			
27	20	10	14.5%	38	544	N	14.582	E	10	G	0.8	15	SICILY			
27	20	13	25.0%	38	517	N	14.542	E	23			0.6	14	SICILY		
27	20	42	59.2*	37	135	N	21.007	E	10	G	1.4	11	SOUTHERN GREECE. ML 3.2 (ATH).			
27	21	08	47.9*	63	203	N	150.389	W	117			32	CENTRAL ALASKA. <AEIC>.			
27	23	01	25.6	3	359	S	137.625	E	64	5.5		0.9	102	IRIAN JAYA, INDONESIA		
27	23	28	05.1?	52	94	N	4.82	W	10	G	1.0	4	UNITED KINGDOM			
27	23	31	21.4*	32	444	N	93.354	E	33	N	4.3	0.3	7	XIJANG		
27	23	54	37.0*	61	336	N	147.610	W	30			58	SOUTHERN ALASKA. <AEIC>. ML 3.1 (AEIC).			
27	23	55	24.3*	41	952	S	84.880	E	10	G	4.7	4.9	1.2	16	SOUTHEAST INDIAN RIDGE	
28	00	28	01.4	39	714	N	20.965	E	10	G	0.4	11	GREECE-ALBANIA BORDER REGION			
28	00	34	09.5*	40	659	N	29.805	E	10	G	0.7	8	TURKEY. Felt at Izmit.			
28	00	37	50.7?	51	53	N	16.23	E	10	G	0.5	9	POLAND. ML 3.3 (VKA).			
28	00	43	07.0	31	048	N	35.464	E	10	G	1.3	11	DEAD SEA REGION MD 3.9 (RYD), 3.8 (HLW). ML 3.6 (CSS). Felt.			
28	00	47	47.9	39	705	N	20.969	E	10	G	0.7	14	GREECE-ALBANIA BORDER REGION. MD 3.1 (ATH).			
28	01	32	07.0?	3	94	N	76.92	W	33	N		0.3	5	COLOMBIA. MD 3.2 (UVC).		
28	03	02	41.1*	33	027	N	138.096	E	33	N	4.6	0.6	13	SOUTH OF HONSHU, JAPAN		
28	03	14	29.9	40	792	N	72.781	E	33	N	4.6	1.1	21	KYRGYZSTAN		
28	03	27	10.0*	39	980	N	106.338	E	33	N		1.5	6	WESTERN NEI MONGOL, CHINA. ML 3.8 (BJI).		
28	03	31	02.7?	39	63	N	16.48	E	10	G	0.2	4	SOUTHERN ITALY			
28	03	34	18.0?	39	91	N	19.70	E	10	G	1.2	5	GREECE-ALBANIA BORDER REGION			
28	04	44	31.0?	38	56	N	14.62	E	10	G	0.6	4	SICILY			
28	05	28	29.3	44	629	N	6.788	E	10	G	0.4	12	FRANCE. ML 2.2 (GEN), 2.3 (LDG).			
28	05	35	00.0	40	769	N	21.930	E	10	G	1.0	9	GREECE			
28	06	57	25.6	4	733	S	103.217	E	33	N	5.1	0.8	50	SOUTHERN SUMATERA, INDONESIA		
28	07	14	07.6*	60	367	N	153.053	W	146			41	SOUTHERN ALASKA. <AEIC>.			
28	08	17	27.0%	38	502	N	14.529	E	22	*		0.7	7	SICILY		
28	08	18	07.3%	40	099	N	28.861	E	10	G	0.5	7	TURKEY			
28	08	55	31.4%	16	945	N	99.623	W	33	N		0.9	6	NEAR COAST OF GUERRERO, MEXICO		
28	09	13	58.8	7	220	S	125.153	E	402	?	4.8	1.4	12	BANDA SEA		
28	09	38	23.7	27	868	N	140.820	E	33	N	5.2	4.3	1.0	81	BONIN ISLANDS REGION	
28	10	11	17.3%	39	595	N	27.549	E	10	G	0.7	8	TURKEY			
28	10	48	26.7	27	926	N	140.742	E	33	N	5.1	4.4	0.9	67	BONIN ISLANDS REGION	
28	11	00	03.8*	7	387	S	119.468	E	242	?	4.9	0.9	14	FLORES SEA		
28	11	13	06.9*	39	760	N	20.924	E	10	G	0.8	5	GREECE-ALBANIA BORDER REGION			
28	11	19	41.5*	58	408	N	154.085	W	89			48	ALASKA PENINSULA. <AEIC>.			
28	11	27	34.8*	39	564	N	76.979	W	5	G	0.6	5	CHESAPEAKE BAY REGION. mbLg 2.4 (GS). Felt at Randallstown, Maryland.			
28	11	52	08.6*	61	044	N	147.081	W	24			68	SOUTHERN ALASKA. <AEIC>. ML 3.3 (AEIC), 3.0 (PMR)			
28	12	02	26.5?	37	21	N	20.90	E	5	G	1.5	5	IONIAN SEA. MD 3.1 (ATH).			
28	12	41	07.7?	10	77	N	62.24	W	33	N		0.3	8	NEAR COAST OF VENEZUELA. MD 3.2 (TRN).		
28	13	36	29.6?	37	74	N	15.00	E	10	G	0.8	4	SICILY			
28	15	05	40.2*	27	561	S	147.717	E	10	G	1.1	6	QUEENSLAND, AUSTRALIA ML 4.0 (CNB), 3.7 (QLP). Felt at			

28	17	55	58.1?	43.40	N	12	55	E	10	G	0.3	4	St. George.	
28	18	12	53.7?	41.68	N	27	74	E	5	G	0.8	4	CENTRAL ITALY	
28	18	40	22.7?	4.53	N	77	22	W	33	N	0.8	6	TURKEY	
28	18	52	01.5	44.129	N	6	967	E	12	*	0.6	10	NEAR WEST COAST OF COLOMBIA. MD 4.0 (UVC).	
28	20	16	38.3	45.408	N	6	525	E	4		0.9	22	FRANCE. ML 2.4 (LDG).	
28	20	18	34.3?	17.888	N	66	878	W	33	N	0.6	7	FRANCE. ML 2.5 (LDG), 2.6 (GEN).	
f 28	20	26	56.1	5.814	S	150	959	E	28	G	5.8 6.6	1.1	370	PUERTO RICO REGION
28	21	16	21.7*	6.400	S	151	840	E	33	N	4.9	0.3	5	NEW BRITAIN REGION, P.N.G. Ms 7.1 (BRK). Mo=1.3*10**19 Nm (PPT). Two events about 2.3 seconds apart. Depth from broadband displacement seismograms, based on first event.
28	21	52	09.5?	3.02	S	142	55	E	33	N	4.3	1.6	5	NEW BRITAIN REGION, P.N.G.
29	00	44	14.6	12.987	N	88	883	W	73		4.6	0.9	13	NEAR N COAST OF NEW GUINEA, PNG.
29	01	19	31.2*	43.608	N	29	338	E	10	G		1.3	7	OFF COAST OF CENTRAL AMERICA. Felt (II) at San Salvador, El Salvador.
29	02	11	04.1?	21.92	S	67	37	W	33	N		1.1	6	BLACK SEA
29	02	37	12.8	39.113	N	20	536	E	5	G		0.5	18	CHILE-BOLIVIA BORDER REGION
29	03	15	20.6?	45.10	N	2	87	E	5	G		0.8	4	GREECE-ALBANIA BORDER REGION MD 3.2 (ATH).
29	03	45	30.9	39.311	N	21	835	E	10	G		1.0	6	FRANCE. ML 2.1 (LDG).
29	03	49	43.4*	44.692	N	6	761	E	32	*		0.4	6	GREECE
29	03	55	05.5	8.200	S	74	342	W	166	D	5.0	0.8	106	FRANCE. ML 2.0 (GEN).
29	04	13	58.5	35.704	N	140	130	E	76		5.1	1.0	75	PERU-BRAZIL BORDER REGION
29	04	37	23.5?	47.64	N	15	84	E	10	G		0.1	4	NEAR EAST COAST OF HONSHU, JAPAN
29	04	42	23.9	35.666	N	140	234	E	73	*	4.7	0.7	18	AUSTRIA. ML 2.7 (KBA), 2.7 (VKA). Felt (IV) at Muerzzuschlag.
29	04	43	44.5	47.241	N	153	257	E	65	D	4.7	0.8	68	NEAR EAST COAST OF HONSHU, JAPAN
29	05	00	00.4	35.716	N	140	192	E	80		4.7	0.6	21	KURIL ISLANDS
29	05	59	06.1?	28.60	N	112	16	W	10	G	3.7	1.5	9	NEAR EAST COAST OF HONSHU, JAPAN
29	06	39	57.9*	40.430	N	17	489	E	10	G		1.3	8	GULF OF CALIFORNIA
29	06	48	07.0*	61.536	N	150	158	W	41				46	SOUTHERN ITALY
29	06	54	36.7	35.794	N	68	660	E	33	N	4.7	1.1	18	SOUTHERN ALASKA. <AEIC>. ML 2.9 (AEIC).
29	07	20	27.2*	5.991	S	151	544	E	81	?	4.8	1.7	12	HINDU KUSH REGION, AFGHANISTAN
29	07	28	13.4*	46.758	N	0	903	E	5	G		1.0	10	NEW BRITAIN REGION, P.N.G.
29	07	50	50.6*	47.681	N	152	681	E	119	?	4.1	1.2	15	FRANCE. ML 2.1 (LDG).
29	08	54	22.6?	44.77	N	7	77	E	5	G		0.6	4	KURIL ISLANDS
29	09	01	58.4?	6.40	N	76	42	W	50	G		0.8	6	NORTHERN ITALY. ML 1.7 (GEN).
29	09	47	54.0*	12.092	N	143	715	E	33	N	4.7	0.6	8	NORTHERN COLOMBIA
29	10	15	39.2?	40.65	N	27	73	E	10	G		0.8	4	SOUTH OF MARIANA ISLANDS
29	10	55	56.9?	12.81	S	119	83	E	33	N	3.7	1.5	6	TURKEY
29	11	08												

30	17 05 53.6% 18.464 N	100.324 W	28 *	0.5	7	GUERRERO, MEXICO
30	17 31 11.2 23.730 N	121.686 E	22	4 4	1 0	34 TAIWAN, ML 4 4 (BJI)
30	17 40 18.7? 18.51 S	168.23 E	199 ?	4 9	0 6	7 VANUATU ISLANDS
30	18 08 16.6+ 30.305 N	67.732 E	33 N	4 5	1 1	21 PAKISTAN
30	18 35 44.2 22.728 N	94.416 E	75	4 7	1 0	73 MYANMAR
30	19 24 04.9+ 31.782 N	50.240 E	33 N		0 6	6 NORTHERN IRAN
30	19 25 33.0+ 19.349 N	121.194 E	33 N	4 5	1 1	15 PHILIPPINE ISLANDS REGION
30	19 49 30.8+ 40.732 N	20.405 E	10 G		1 2	5 GREECE-ALBANIA BORDER REGION
30	20 01 05.7% 44.125 N	11.712 E	10 G		0 4	6 NORTHERN ITALY
30	20 12 34.6 45.340 S	167.315 E	149 ?	4 6	1 2	8 SOUTH ISLAND, NEW ZEALAND
30	21 06 57.7% 39.349 N	16.509 E	10 G		0.9	11 SOUTHERN ITALY
30	23 42 02.0% 39.020 N	23.370 E	10 G		0.6	7 AEGEAN SEA

A D D I T I O N A L S O U R C E P A R A M E T E R S

01 06 51 04.51 78.967N 3.604E 10km 5.2mb (79 obs.) 5.2msz (24 obs.) GREENLAND SEA CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 23S, 47C Centroid Location: Origin Time 06:51: 7.9 0.3 Lat 78.77N 0.05 Lon 2.74E 0.10 Dep 34.9 3.4 Half-duration 2.4 Principal Axes: Scale 10**17 Nm T Val= 3.29 Plg= 0 Azm=264 N -0.47 90 180 P -2.83 0 174 Best Double Couple:Mo=3.1*10**17 NP1:Strike=309 Dip=90 Slip=-180 NP2: 39 90 0	NP1 Strike=233 Dip=47 Slip=-44 NP2 357 59 -127 CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 22S, 52C M.W.: 16S, 26C Centroid Location: Origin Time 09:05 35.3 0.3 Lat 18.03S 0.03 Lon 116.22W 0.03 Dep 15.0 BDY Half-duration 5.5 Principal Axes: Scale 10**18 Nm T Val= 3.38 Plg=17 Azm= 80 N 0.69 6 348 P -4.07 72 240 Best Double Couple:Mo=3.7*10**18 NP1:Strike=179 Dip=29 Slip=-78 NP2: 345 62 -96	Lat 11.49S FIX, Lon 166.35E FIX Dep 33.0 FIX Half-duration 1.5 Principal Axes: Scale 10**16 Nm T Val= 6.41 Plg=67 Azm= 24 N -1.53 9 134 P -4.88 21 228 Best Double Couple:Mo=5.6*10**16 NP1:Strike=333 Dip=25 Slip= 111 NP2: 131 67 81
03 08 44 48.60 33.649N 138.778E 27km 5.9mb (105 obs.) 6.4msz (21 obs.) SOUTH OF HONSHU, JAPAN FAULT PLANE SOLUTION: P-Waves NP1:Strike=305 Dip=85 Slip=-175 NP2: 215 85 -5 Principal Axes: T Plg= 0 Azm=260 P 7 170 Comment: The focal mechanism is moderately well controlled and corresponds to strike-slip faulting with a small normal component. The preferred fault plane is not determined. RADIATED ENERGY No. of sta: 11 Focal mech. F Energy 8.9±2.5*10**14 Nm MOMENT TENSOR SOLUTION Dep 9 No. of sta: 19 Principal Axes: Scale 10**18 Nm T Val= 4.77 Plg=12 Azm=269 N -0.49 76 59 P -4.29 7 178 Best Double Couple:Mo=4.5*10**18 NP1:Strike=313 Dip=77 Slip= 176 NP2: 44 86 13 CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 23S, 66C M.W.: 11S, 20C Centroid Location: Origin Time 08:44:51.6 0.2 Lat 34.09N 0.02 Lon 138.48E 0.02 Dep 15.0 FIX Half-duration 7.4 Principal Axes: Scale 10**18 Nm T Val= 2.66 Plg=17 Azm= 74 N 0.18 52 322 P -2.84 33 175 Best Double Couple:Mo=2.8*10**18 NP1:Strike=210 Dip=54 Slip=-13 NP2: 308 79 -143	03 11 56 16.27 17.921S 115.992W 11km 5.8mb (43 obs.) 5.9msz (16 obs.) SOUTHERN EAST PACIFIC RISE RADIATED ENERGY No. of sta: 11 Focal mech. M Energy 2.8±0.6*10**13 Nm MOMENT TENSOR SOLUTION Dep 12 No. of sta: 14 Principal Axes: Scale 10**18 Nm T Val= 3.51 Plg=16 Azm= 65 N 0.00 9 333 P -3.50 71 215 Best Double Couple:Mo=3.5*10**18 NP1:Strike=169 Dip=30 Slip=-72 NP2: 328 62 -100 CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 27S, 74C Centroid Location: Origin Time 11:56:24.7 0.2 Lat 18.18S 0.02 Lon 116.13W 0.02 Dep 15.0 BDY Half-duration 5.0 Principal Axes: Scale 10**18 Nm T Val= 2.68 Plg= 7 Azm= 55 N 1.12 12 324 P -3.80 76 176 Best Double Couple:Mo=3.2*10**18 NP1:Strike=158 Dip=39 Slip=-72 NP2: 315 53 -104	07 14 32 56.43 24.103S 179.836W 534km 5.3mb (53 obs.) SOUTH OF FIJI ISLANDS CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 21S, 42C Centroid Location: Origin Time 14:33: 0.8 0.8 Lat 24.11S 0.09 Lon 179.63W 0.06 Dep 541.2 3.0 Half-duration 2.1 Principal Axes: Scale 10**17 Nm T Val= 2.04 Plg=47 Azm= 90 N -0.18 16 198 P -1.87 39 301 Best Double Couple:Mo=2.0*10**17 NP1:Strike= 93 Dip=17 Slip= 166 NP2: 197 86 74
04 22 27 21.72 15.204N 120.404E 21km 5.6mb (78 obs.) 5.1msz (15 obs.) LUZON, PHILIPPINE ISLANDS CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 18S, 35C Centroid Location: Origin Time 22:27:24.0 0.3 Lat 15.30N 0.04 Lon 120.63E 0.06 Dep 15.0 FIX Half-duration 2.4 Principal Axes: Scale 10**17 Nm T Val= 1.92 Plg= 0 Azm=176 N -0.23 26 266 P -1.69 64 86 Best Double Couple:Mo=1.8*10**17 NP1:Strike=242 Dip=50 Slip=-124 NP2: 109 50 -56	08 13 50 30.87 40.250S 175.053E 88km 5.6mb (31 obs.) NORTH ISLAND, NEW ZEALAND CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 24S, 56C Centroid Location: Origin Time 13:50:33.9 0.3 Lat 40.69S 0.02 Lon 174.94E 0.03 Dep 70.1 2.2 Half-duration 2.1 Principal Axes: Scale 10**17 Nm T Val= 2.67 Plg=61 Azm= 33 N 0.42 17 269 P -3.10 23 172 Best Double Couple:Mo=2.9*10**17 NP1:Strike=232 Dip=27 Slip= 50 NP2: 95 70 108	08 13 50 30.87 40.250S 175.053E 88km 5.6mb (31 obs.) NORTH ISLAND, NEW ZEALAND CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 24S, 56C Centroid Location: Origin Time 13:50:33.9 0.3 Lat 40.69S 0.02 Lon 174.94E 0.03 Dep 70.1 2.2 Half-duration 2.1 Principal Axes: Scale 10**17 Nm T Val= 2.67 Plg=61 Azm= 33 N 0.42 17 269 P -3.10 23 172 Best Double Couple:Mo=2.9*10**17 NP1:Strike=232 Dip=27 Slip= 50 NP2: 95 70 108
03 09 05 28.31 17.910S 116.001W 9km 6.0mb (41 obs.) 5.9msz (12 obs.) SOUTHERN EAST PACIFIC RISE RADIATED ENERGY No. of sta: 13 Focal mech. M Energy 1.3±0.3*10**14 Nm MOMENT TENSOR SOLUTION Dep 18 No. of sta: 9 Principal Axes: Scale 10**18 Nm T Val= 4.02 Plg= 7 Azm=112 N 0.08 31 18 P -4.10 58 213 Best Double Couple:Mo=4.1*10**18	04 22 27 21.72 15.204N 120.404E 21km 5.6mb (78 obs.) 5.1msz (15 obs.) LUZON, PHILIPPINE ISLANDS CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 18S, 35C Centroid Location: Origin Time 22:27:24.0 0.3 Lat 15.30N 0.04 Lon 120.63E 0.06 Dep 15.0 FIX Half-duration 2.4 Principal Axes: Scale 10**17 Nm T Val= 1.92 Plg= 0 Azm=176 N -0.23 26 266 P -1.69 64 86 Best Double Couple:Mo=1.8*10**17 NP1:Strike=242 Dip=50 Slip=-124 NP2: 109 50 -56	09 14 30 20.30 12.796N 143.927E 33km 5.1mb (11 obs.) 5.5msz (4 obs.) SOUTH OF MARIANA ISLANDS CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 17S, 32C Centroid Location: Origin Time 14:30:22.1 0.6 Lat 12.83N FIX, Lon 143.91E FIX Dep 33.0 FIX Half-duration 3.3 Principal Axes: Scale 10**17 Nm T Val= 2.56 Plg=27 Azm= 17 N -0.51 62 187 P -2.05 4 285 Best Double Couple:Mo=2.3*10**17 NP1:Strike= 58 Dip=68 Slip= 163 NP2: 154 74 23
05 10 33 57.44 11.590S 166.536E 47km 5.0mb (22 obs.) 4.6msz (2 obs.) SANTA CRUZ ISLANDS CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 19S, 26C Centroid Location: Origin Time 10:34: 0 5 0.6	09 15 06 30.36 12.678N 144.008E 30km 5.0mb (15 obs.) 5.6msz (9 obs.) SOUTH OF MARIANA ISLANDS CENTROID, MOMENT TENSOR (HRV) Data Used: GDSN L.P.B.: 28S, 69C Centroid Location: Origin Time 15:06:31.5 0.3 Lat 12.55N 0.04 Lon 143.93E 0.04	

Dep 15.0 FIX Half-duration 3.0
Principal Axes:
Scale 10**17 Nm
T Val= 6.45 Plg=16 Azm=217
N -1.34 70 77
P -5.12 12 311
Best Double Couple: Mo=5.8*10**17
NP1: Strike=355 Dip=70 Slip= 2
NP2: 264 88 160

11 04 39 53.36 13.134N 89.520W 67km
4.8mb (20 obs.)
EL SALVADOR
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 25S, 43C
Centroid Location:
Origin Time 04:39:53.2 0.7
Lat 13.00N 0.06 Lon 90.12W 0.06
Dep 39.7 4.2 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 5.50 Plg= 0 Azm=354
N 2.74 12 84
P -8.24 78 263
Best Double Couple: Mo=6.9*10**16
NP1: Strike= 72 Dip=46 Slip=-107
NP2: 276 46 -73

12 00 33 30.72 54.905N 111.112E 25km
5.1mb (57 obs.) 4.9Msz (6 obs.)
LAKE BAYKAL REGION, RUSSIA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 18S, 27C
Centroid Location:
Origin Time 00:33:30.9 0.8
Lat 54.68N 0.10 Lon 110.70E 0.21
Dep 32.6 7.9 Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 6.73 Plg=21 Azm=127
N -0.61 10 33
P -6.12 66 278
Best Double Couple: Mo=6.4*10**16
NP1: Strike=235 Dip=25 Slip=-65
NP2: 28 67 -101

13 01 34 18.68 10.456N 85.234W 54km
4.7mb (13 obs.) 4.9Msz (8 obs.)
COSTA RICA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 20S, 32C
Centroid Location:
Origin Time 01:34:18.8 0.5
Lat 9.82N 0.06 Lon 85.64W 0.07
Dep 32.4 4.3 Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 7.31 Plg=70 Azm= 46
N 0.96 5 302
P -8.27 19 210
Best Double Couple: Mo=7.8*10**16
NP1: Strike=291 Dip=26 Slip= 78
NP2: 124 64 96

15 06 39 12.35 17.879S 116.021W 10km
5.6mb (34 obs.) 4.7Msz (9 obs.)
SOUTHERN EAST PACIFIC RISE
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 33C
Centroid Location:
Origin Time 06:39:16.0 0.7
Lat 18.64S 0.07 Lon 116.10W 0.07
Dep 15.0 FIX Half-duration 2.4
Principal Axes:
Scale 10**17 Nm
T Val= 4.47 Plg=28 Azm= 24
N 0.62 9 119
P -5.08 60 225
Best Double Couple: Mo=4.8*10**17
NP1: Strike= 92 Dip=18 Slip=-119
NP2: 302 74 -81

15 22 56 20.60 31.512S 69.936W 110km
5.2mb (25 obs.)
SAN JUAN PROVINCE, ARGENTINA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 28S, 60C
Centroid Location:

Origin Time 22:56:26.0 0.2
Lat 31.58S 0.02 Lon 69.96W 0.03
Dep 123.2 1.1 Half-duration 3.2
Principal Axes:
Scale 10**17 Nm
T Val= 6.93 Plg= 2 Azm=127
N 0.12 87 351
P -7.04 2 217
Best Double Couple: Mo=7.0*10**17
NP1: Strike=262 Dip=87 Slip= 0
NP2: 172 90 177

16 17 47 17.83 5.487S 147.055E 215km
5.1mb (28 obs.)
EASTERN NEW GUINEA REG., P.N.G.
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 15S, 25C
Centroid Location:
Origin Time 17:47:17.7 1.4
Lat 5.83S 0.12 Lon 147.45E 0.10
Dep 210.1 3.7 Half-duration 2.0
Principal Axes:
Scale 10**16 Nm
T Val= 10.95 Plg=46 Azm= 94
N -1.39 37 311
P -9.56 20 205
Best Double Couple: Mo=1.0*10**17
NP1: Strike=252 Dip=42 Slip= 24
NP2: 144 74 129

16 22 19 08.08 13.246S 167.139E 163km
5.4mb (29 obs.)
VANUATU ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 21S, 41C
Centroid Location:
Origin Time 22:19:13.4 0.6
Lat 13.22S 0.05 Lon 166.91E 0.05
Dep 166.8 1.4 Half-duration 2.0
Principal Axes:
Scale 10**17 Nm
T Val= 2.05 Plg=72 Azm= 65
N 0.12 9 186
P -2.16 15 279
Best Double Couple: Mo=2.1*10**17
NP1: Strike= 22 Dip=31 Slip= 108
NP2: 181 60 79

17 14 45 15.49 25.195S 178.354E 559km
5.3mb (31 obs.)
SOUTH OF FIJI ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 21S, 41C
Centroid Location:
Origin Time 14:45:22.8 0.8
Lat 24.84S 0.07 Lon 178.40E 0.06
Dep 592.4 3.0 Half-duration 2.0
Principal Axes:
Scale 10**17 Nm
T Val= 1.40 Plg= 3 Azm= 9
N 0.24 43 276
P -1.64 47 103
Best Double Couple: Mo=1.5*10**17
NP1: Strike=134 Dip=56 Slip=-35
NP2: 246 61 -140

18 09 48 13.11 14.646N 90.986W 5km
5.7mb (68 obs.) 6.1Msz (29 obs.)
GUATEMALA
FAULT PLANE SOLUTION: P-Waves
NP1: Strike=297 Dip=77 Slip=-175
NP2: 206 85 -13
Principal Axes:
T Plg= 6 Azm=252
P 13 161
Comment: The focal mechanism is poorly controlled and corresponds to strike-slip faulting with a small normal component. The preferred fault plane is not determined.
MOMENT TENSOR SOLUTION
Dep 17 No. of sta: 14
Principal Axes:
Scale 10**18 Nm
T Val= 1.99 Plg= 3 Azm= 69
N 0.15 69 333
P -2.14 21 160
Best Double Couple: Mo=2.1*10**18
NP1: Strike=203 Dip=73 Slip=-14

NP2: 297 77 -163
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 28S, 78C M.W.: 19S, 36C
Centroid Location:
Origin Time 09:48:19.6 0.2
Lat 14.79N 0.02 Lon 91.01W 0.02
Dep 15.0 FIX Half-duration 5.7
Principal Axes:
Scale 10**18 Nm
T Val= 2.26 Plg=35 Azm=239
N -0.16 42 8
P -2.10 28 127
Best Double Couple: Mo=2.2*10**18
NP1: Strike=270 Dip=42 Slip= 174
NP2: 5 86 48

19 01 41 48.04 48.818N 154.870E 35km
5.6mb (96 obs.) 4.8Msz (16 obs.)
KURIL ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 21S, 37C
Centroid Location:
Origin Time 01:41:52.8 0.4
Lat 48.68N 0.05 Lon 155.25E 0.05
Dep 44.7 3.8 Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 6.87 Plg=76 Azm= 17
N 3.23 13 208
P -10.10 3 118
Best Double Couple: Mo=8.5*10**16
NP1: Strike=194 Dip=44 Slip= 71
NP2: 40 49 108

20 14 47 46.44 6.486S 129.850E 180km
5.4mb (38 obs.)
BANDA SEA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 18S, 35C
Centroid Location:
Origin Time 14:47:47.8 0.4
Lat 6.50S FIX; Lon 129.87E FIX
Dep 177.5 1.7 Half-duration 2.0
Principal Axes:
Scale 10**17 Nm
T Val= 1.58 Plg=43 Azm=295
N -0.11 10 35
P -1.48 45 135
Best Double Couple: Mo=1.5*10**17
NP1: Strike=311 Dip=10 Slip=-174
NP2: 215 89 -80

21 15 19 48.18 16.232S 173.004W 17km
5.8mb (57 obs.) 5.7Msz (40 obs.)
TONGA ISLANDS
FAULT PLANE SOLUTION: P-Waves
NP1: Strike= 15 Dip=65 Slip= 125
NP2: 136 42 39
Principal Axes:
T Plg=55 Azm=331
P 13 80
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting with a small strike-slip component. The preferred fault plane is not determined.
RADIATED ENERGY
No. of sta: 9 Focal mech. M
Energy 4.2±1.2*10**12 Nm
MOMENT TENSOR SOLUTION
Dep 11 No. of sta: 21
Principal Axes:
Scale 10**18 Nm
T Val= 1.35 Plg=50 Azm=316
N 0.05 36 166
P -1.41 15 65
Best Double Couple: Mo=1.4*10**18
NP1: Strike=115 Dip=43 Slip= 31
NP2: 2 69 129
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 28S, 79C
Centroid Location:
Origin Time 15:19:54.3 0.2
Lat 16.48S 0.02 Lon 172.61W 0.02
Dep 15.0 FIX Half-duration 4.0
Principal Axes:
Scale 10**18 Nm
T Val= 1.54 Plg=62 Azm=286

N 0.02 5 187
P -1.56 27 95
Best Double Couple: Mo=1.5*10**18
NP1: Strike=173 Dip=18 Slip= 75
NP2: 9 72 95

21 19 01 32.80 11.014N 60.938W 84km
4.6mb (32 obs.)
WINDWARD ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 22S, 40C
Centroid Location:
Origin Time 19:01:33.1 0.5
Lat 11.18N 0.04 Lon 60.57W 0.07
Dep 50.2 4.4 Half-duration 1.7
Principal Axes:
Scale 10**16 Nm
T Val= 9.79 Plg=53 Azm=229
N 1.04 30 90
P -10.84 20 348
Best Double Couple: Mo=1.0*10**17
NP1: Strike= 39 Dip=36 Slip= 33
NP2: 281 71 122

22 06 32 37.37 49.644N 156.549E 30km
5.5mb (84 obs.) 4.7Msz (10 obs.)
KURIL ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 20S, 40C
Centroid Location:
Origin Time 06:32:41.4 0.4
Lat 49.59N 0.07 Lon 156.83E 0.06
Dep 32.4 4.5 Half-duration 2.1
Principal Axes:
Scale 10**16 Nm
T Val= 8.59 Plg=72 Azm= 17
N 0.00 18 198
P -8.59 0 108
Best Double Couple: Mo=8.6*10**16
NP1: Strike=180 Dip=48 Slip= 65
NP2: 36 48 115

25 17 43 16.51 23.364S 178.902W 410km
5.3mb (51 obs.)
SOUTH OF FIJI ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 20S, 39C
Centroid Location:
Origin Time 17:43:21.5 0.6
Lat 23.34S 0.06 Lon 178.76W 0.05
Dep 433.2 2.6 Half-duration 1.9
Principal Axes:
Scale 10**17 Nm
T Val= 1.32 Plg= 0 Azm=122
N 0.26 4 212
P -1.58 86 26
Best Double Couple: Mo=1.5*10**17
NP1: Strike=208 Dip=45 Slip= -96
NP2: 35 46 -85

25 20 46 23.90 56.748S 147.393E 16km
5.2mb (14 obs.) 5.1Msz (3 obs.)
WEST OF MACQUARIE ISLAND
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 32C
Centroid Location:
Origin Time 20:46:32.3 0.6
Lat 56.46S 0.08 Lon 147.46E 0.12
Dep 15.0 FIX Half-duration 2.6
Principal Axes:
Scale 10**17 Nm
T Val= 1.73 Plg=25 Azm= 27
N -0.46 56 253
P -1.27 21 127
Best Double Couple: Mo=1.5*10**17
NP1: Strike=168 Dip=56 Slip= 3
NP2: 76 88 146

26 05 59 18.66 16.130N 98.237W 19km
5.3mb (36 obs.) 4.7Msz (5 obs.)
NEAR COAST OF GUERRERO, MEXICO
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 24C
Centroid Location:
Origin Time 05:59:23.0 1.1
Lat 16.06N 0.11 Lon 98.04W 0.12
Dep 15.0 FIX Half-duration 1.5
Principal Axes:
Scale 10**16 Nm
T Val= 6.97 Plg=62 Azm= 42
N 1.44 15 283
P -8.41 23 186
Best Double Couple: Mo=7.7*10**16
NP1: Strike=249 Dip=25 Slip= 54
NP2: 108 70 106

26 09 14 50.45 9.283S 158.620E 26km
5.2mb (23 obs.) 5.1Msz (9 obs.)
SOLOMON ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 22S, 51C
Centroid Location:
Origin Time 09:14:53.0 0.4
Lat 9.63S 0.08 Lon 159.01E 0.05
Dep 15.3 3.2 Half-duration 2.0
Principal Axes:
Scale 10**17 Nm
T Val= 1.91 Plg=58 Azm= 1
N 0.47 13 113
P -2.38 28 211
Best Double Couple: Mo=2.2*10**17
NP1: Strike=332 Dip=20 Slip= 131
NP2: 110 75 76

26 22 16 25.73 16.117S 173.245W 28km
5.2mb (31 obs.) 5.4Msz (17 obs.)
TONGA ISLANDS
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 24S, 53C
Centroid Location:
Origin Time 22:16:32.3 0.2
Lat 16.25S 0.03 Lon 172.98W 0.03
Dep 19.9 1.9 Half-duration 2.9
Principal Axes:
Scale 10**17 Nm
T Val= 4.51 Plg=59 Azm=267
N 0.25 0 358
P -4.76 31 89
Best Double Couple: Mo=4.6*10**17
NP1: Strike=180 Dip=14 Slip= 92
NP2: 358 76 90

27 23 01 25.65 3.359S 137.625E 64km
5.5mb (31 obs.)
IRIAN JAYA, INDONESIA
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 17S, 28C
Centroid Location:
Origin Time 23:01:36.1 0.9
Lat 2.75S 0.12 Lon 137.70E 0.07
Dep 84.3 3.9 Half-duration 1.6
Principal Axes:
Scale 10**16 Nm
T Val= 7.30 Plg= 2 Azm=108
N -0.28 49 200
P -7.02 41 16
Best Double Couple: Mo=7.2*10**16
NP1: Strike=160 Dip=61 Slip=-149
NP2: 54 64 -33

28 20 26 56.15 5.814S 150.959E 28km
5.8mb (45 obs.) 6.6Msz (53 obs.)
NEW BRITAIN REGION, P.N.G.
FAULT PLANE SOLUTION: P-Waves
NP1: Strike=122 Dip=60 Slip= 90
NP2: 302 30 90
Principal Axes:
T Plg=75 Azm= 32
P 15 212
Comment: The focal mechanism is poorly controlled and corresponds to reverse faulting. The preferred fault plane is NP2
RADIATED ENERGY
No. of sta: 14 Focal mech. M
Energy 1.3*10**13 Nm
MOMENT TENSOR SOLUTION

Dep 34 No. of sta: 17
Principal Axes:
Scale 10**18 Nm
T Val= 9.87 Plg=70 Azm= 54
N -0.11 14 282
P -9.76 14 188
Best Double Couple: Mo=9.8*10**18
NP1: Strike=259 Dip=33 Slip= 63
NP2: 110 61 106
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 26S, 74C M.W.: 21S, 48C
Centroid Location:
Origin Time 20:27: 5.8 0.1
Lat 6.03S 0.01 Lon 151.21E 0.01
Dep 35.8 0.5 Half-duration 7.0
Principal Axes:
Scale 10**18 Nm
T Val= 7.96 Plg=69 Azm=354
N 0.47 3 256
P -8.44 21 165
Best Double Couple: Mo=8.2*10**18
NP1: Strike=250 Dip=24 Slip= 83
NP2: 77 66 93

30 00 21 46.41 20.878S 178.591W 566km
6.3mb (51 obs.)
FIJI ISLANDS REGION
FAULT PLANE SOLUTION: P-Waves
NP1: Strike= 48 Dip=83 Slip= -94
NP2: 258 8 -60
Principal Axes:
T Plg=38 Azm=142
P 52 313
Comment: The focal mechanism is poorly controlled and corresponds to normal faulting with a small strike-slip component. The preferred fault plane is not determined.
RADIATED ENERGY
No. of sta: 15 Focal mech. C
Energy 1.7*10**14 Nm
MOMENT TENSOR SOLUTION
Dep 591 No. of sta: 14
Principal Axes:
Scale 10**19 Nm
T Val= 2.22 Plg=39 Azm=156
N 0.14 12 56
P -2.36 49 311
Best Double Couple: Mo=2.3*10**19
NP1: Strike=303 Dip=13 Slip= -22
NP2: 55 85 -102
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 27S, 77C M.W.: 20S, 44C
Centroid Location:
Origin Time 00:21:54.0 0.1
Lat 20.67S 0.01 Lon 178.52W 0.01
Dep 589.7 0.6 Half-duration 10.1
Principal Axes:
Scale 10**19 Nm
T Val= 2.59 Plg=36 Azm=140
N 1.06 6 46
P -3.65 54 308
Best Double Couple: Mo=3.1*10**19
NP1: Strike=257 Dip=11 Slip= -58
NP2: 45 81 -96

30 09 44 42.15 22.535N 121.479E 24km
5.5mb (64 obs.) 5.2Msz (9 obs.)
TAIWAN REGION
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 14S, 30C
Centroid Location:
Origin Time 09:44:46.1 0.5
Lat 22.79N 0.06 Lon 121.82E 0.07
Dep 18.8 3.4 Half-duration 1.8
Principal Axes:
Scale 10**17 Nm
T Val= 1.19 Plg=62 Azm= 43
N 0.40 26 201
P -1.59 9 295
Best Double Couple: Mo=1.4*10**17
NP1: Strike= 53 Dip=42 Slip= 131
NP2: 184 59 59

GEOGRAPHIC REGION NAME CHANGES

Beginning with this issue, the following changes have been made to the geographic region names used in this publication. The changes have been made to reflect either recent political changes or usages more common or more consistent than the names employed in the past. Most of the changes shown here were approved by the IASPEL Commission on Practice, Working Group on Regionalization, at its meeting in Vienna, Austria in August, 1991. These changes are in addition to previous changes, and were made under the constraint of making no changes to the boundaries of the regions nor to their corresponding Flinn-Engdahl geographic region numbers.

F-E GEOG.

REG. NO.

OLD NAME OF REGION

NEW NAME OF REGION

16	ALEUTIAN ISLANDS REGION	SOUTH OF ALEUTIAN ISLANDS
23	BRITISH COLUMBIA	BRITISH COLUMBIA, CANADA
24	ALBERTA PROVINCE, CANADA	ALBERTA, CANADA
45	CALIFORNIA-MEXICO BORDER REGION	CALIF.-BAJA CALIF. BORDER REGION
46	W. ARIZ. - MEXICO BORDER REGION	W. ARIZONA-SONORA BORDER REGION
48	BAJA CALIFORNIA	BAJA CALIFORNIA, MEXICO
50	NORTHWESTERN MEXICO	SONORA, MEXICO
84	YUCUTAN PENINSULA	YUCATAN PENINSULA, MEXICO
116	PERU	CENTRAL PERU
120	BOLIVIA	CENTRAL BOLIVIA
144	NEAR COAST OF SOUTHERN CHILE	SOUTHERN CHILE
146	ARGENTINA	SOUTHERN ARGENTINA
178	KERMADEC ISLANDS	KERMADEC ISLANDS, NEW ZEALAND
190	NEW IRELAND REGION	NEW IRELAND REGION, P.N.G.
192	NEW BRITAIN REGION	NEW BRITAIN REGION, P.N.G.
194	D'ENTRECASTEAUX ISLANDS REGION	D'ENTRECASTEAUX ISLANDS REGION
196	WEST IRIAN REGION	IRIAN JAYA REGION, INDONESIA
197	NEAR N. COAST OF WEST IRIAN	NEAR NORTH COAST OF IRIAN JAYA
198	PAPUA NEW GUINEA REGION	NINIGO ISLANDS REGION, P.N.G.
199	ADMIRALTY ISLANDS REGION	ADMIRALTY ISLANDS REGION, P.N.G.
200	NEAR N COAST OF PAPUA NEW GUINEA	NEAR N COAST OF NEW GUINEA, PNG.
201	WEST IRIAN	IRIAN JAYA, INDONESIA
202	PAPUA NEW GUINEA	NEW GUINEA, PAPUA NEW GUINEA
204	AROE ISLANDS REGION	ARU ISLANDS REGION, INDONESIA
205	NEAR S. COAST OF WEST IRIAN	NEAR SOUTH COAST OF IRIAN JAYA
206	NEAR S COAST OF PAPUA NEW GUINEA	NEAR S COAST OF NEW GUINEA, PNG.
207	EAST PAPUA NEW GUINEA REGION	EASTERN NEW GUINEA REG., P.N.G.
209	WEST CAROLINE ISLANDS	WESTERN CAROLINE ISLANDS
222	KURIL ISLANDS REGION	EAST OF KURIL ISLANDS
227	HONSHU, JAPAN	EASTERN HONSHU, JAPAN
232	SOUTHERN HONSHU, JAPAN	WESTERN HONSHU, JAPAN
233	NEAR S. COAST OF SOUTHERN HONSHU	NEAR S. COAST OF WESTERN HONSHU
234	EAST CHINA SEA	NORTHWEST OF RYUKYU ISLANDS
239	RYUKYU ISLANDS REGION	SOUTHEAST OF RYUKYU ISLANDS
240	EAST OF RYUKYU ISLANDS	WEST OF BONIN ISLANDS
261	KALIMANTAN	BORNEO
263	TALAUD ISLANDS	TALAUD ISLANDS, INDONESIA
264	NORTH OF HALMAHERA	NORTH OF HALMAHERA, INDONESIA
265	MINAHASSA PENINSULA	MINAHASSA PENINSULA, SULAWESI
266	MOLUCCA PASSAGE	NORTHERN MOLUCCA SEA
267	HALMAHERA	HALMAHERA, INDONESIA
268	SULAWESI	SULAWESI, INDONESIA
269	MOLUCCA SEA	SOUTHERN MOLUCCA SEA
271	BURU	BURU, INDONESIA
272	CERAM	SERAM, INDONESIA
273	SOUTHWEST OF SUMATERA	SOUTHWEST OF SUMATERA, INDONESIA
274	SOUTHERN SUMATERA	SOUTHERN SUMATERA, INDONESIA
277	JAVA	JAWA, INDONESIA
281	TANIMBAR ISLANDS REGION	TANIMBAR ISLANDS REG., INDONESIA
282	SOUTH OF JAVA	SOUTH OF JAWA, INDONESIA
283	BALI ISLAND REGION	BALI REGION, INDONESIA
284	SOUTH OF BALI ISLAND	SOUTH OF BALI, INDONESIA
285	SUMBAWA ISLAND REGION	SUMBAWA REGION, INDONESIA
286	FLORES ISLAND REGION	FLORES REGION, INDONESIA
287	SUMBA ISLAND REGION	SUMBA REGION, INDONESIA

F-E GEOG.
REG. NO.

OLD NAME OF REGION

NEW NAME OF REGION

289	TIMOR	TIMOR REGION, INDONESIA
291	SOUTH OF SUMBAWA ISLAND	SOUTH OF SUMBAWA, INDONESIA
292	SOUTH OF SUMBA ISLAND	SOUTH OF SUMBA, INDONESIA
293	SOUTH OF TIMOR	SOUTH OF TIMOR, INDONESIA
294	BURMA-INDIA BORDER REGION	MYANMAR-INDIA BORDER REGION
295	BURMA-BANGLADESH BORDER REGION	MYANMAR-BANGLADESH BORDER REGION
296	BURMA	MYANMAR
297	BURMA-CHINA BORDER REGION	MYANMAR-CHINA BORDER REGION
298	SOUTH BURMA	NEAR SOUTH COAST OF MYANMAR
300	HAINAN ISLAND	HAINAN ISLAND, CHINA
304	KASHMIR-TIBET BORDER REGION	KASHMIR-XIJANG BORDER REGION
305	TIBET-INDIA BORDER REGION	XIJANG-INDIA BORDER REGION
306	TIBET	XIJANG
307	SICHUAN PROVINCE, CHINA	SICHUAN, CHINA
311	SIKKIM	SIKKIM, INDIA
313	INDIA-CHINA BORDER REGION	EASTERN XIJANG-INDIA BORDER REG.
314	INDIA	SOUTHERN INDIA
317	EASTERN INDIA	NORTHEASTERN INDIA
318	YUNNAN PROVINCE, CHINA	YUNNAN, CHINA
320	KIRGIZ-SINKIANG BORDER REGION	KYRGYZSTAN-XINJIANG BORDER REG.
322	GANSU PROVINCE, CHINA	GANSU, CHINA
323	NORTHERN CHINA	WESTERN NEI MONGOL, CHINA
325	QINGHAI PROVINCE, CHINA	QINGHAI, CHINA
326	CENTRAL USSR	SOUTHWESTERN SIBERIA, RUSSIA
327	LAKE BAIKAL REGION	LAKE BAYKAL REGION, RUSSIA
328	EAST OF LAKE BAIKAL	EAST OF LAKE BAYKAL, RUSSIA
329	EASTERN KAZAKH SSR	EASTERN KAZAKHSTAN
330	ALMA-ATA REGION	LAKE ISSYK-KUL REGION
331	KAZAKH-SINKIANG BORDER REGION	KAZAKHSTAN-XINJIANG BORDER REG.
333	USSR-MONGOLIA BORDER REGION	RUSSIA-MONGOLIA BORDER REGION
335	URAL MOUNTAINS REGION	URAL MOUNTAINS REGION, RUSSIA
336	WESTERN KAZAKH SSR	WESTERN KAZAKHSTAN
339	UZBEK SSR	NORTHWESTERN UZBEKISTAN
340	TURKMEN SSR	TURKMENISTAN
341	IRAN-USSR BORDER REGION	TURKMENISTAN-IRAN BORDER REGION
342	TURKMEN-AFGHANISTAN BORDER REGION	TURKMENISTAN-AFGHANISTAN BRD REG
344	N.W. IRAN-USSR BORDER REGION	ARMENIA-AZERBAIJAN-IRAN BORD REG
348	IRAN	NORTHERN IRAN
354	PAKISTAN	SOUTHWESTERN PAKISTAN
356	NEAR COAST OF PAKISTAN	OFF COAST OF PAKISTAN
357	SOUTHWESTERN USSR	UKRAINE-MOLDOVA-SW RUSSIA REGION
361	CRIMEA REGION	CRIMEA REGION, UKRAINE
362	WESTERN CAUCASUS	NORTHWESTERN CAUCASUS
367	TURKEY-USSR BORDER REGION	GEORGIA-ARMENIA-TURKEY BORD REG.
372	CYPRUS	CYPRUS REGION
383	YUGOSLAVIA	NORTHWESTERN BALKAN REGION
396	ALGERIA	NORTHERN ALGERIA
400	MEDITERRANEAN SEA	CENTRAL MEDITERRANEAN SEA
403	NORTH ATLANTIC RIDGE	NORTHERN MID-ATLANTIC RIDGE
410	SOUTH ATLANTIC RIDGE	SOUTHERN MID-ATLANTIC RIDGE
418	LACCADIVE ISLANDS REGION	LAKSHADWEEP REGION, INDIA
427	MASCARENE ISLANDS REGION	MAURITIUS-REUNION REGION
428	ATLANTIC-INDIAN RISE	SOUTHWEST INDIAN RIDGE
429	MID-INDIAN RISE	MID-INDIAN RIDGE
434	AMSTERDAM-NATURALISTE RIDGE	BROKEN RIDGE
435	SOUTHEAST INDIAN RISE	SOUTHEAST INDIAN RIDGE
436	KERGUELEN-GAUSSBERG RISE	SOUTHERN KERGUELEN PLATEAU
438	SASKATCHEWAN PROVINCE, CANADA	SASKATCHEWAN, CANADA
439	MANITOBA PROVINCE, CANADA	MANITOBA, CANADA
441	ONTARIO	ONTARIO, CANADA
443	NORTHERN QUEBEC	NORTHERN QUEBEC, CANADA
445	LABRADOR	LABRADOR, CANADA
446	EAST OF LABRADOR	EAST OF LABRADOR, CANADA
447	SOUTHERN QUEBEC	SOUTHERN QUEBEC, CANADA
448	GASPE PENINSULA	GASPE PENINSULA, CANADA
449	EASTERN QUEBEC	EASTERN QUEBEC, CANADA

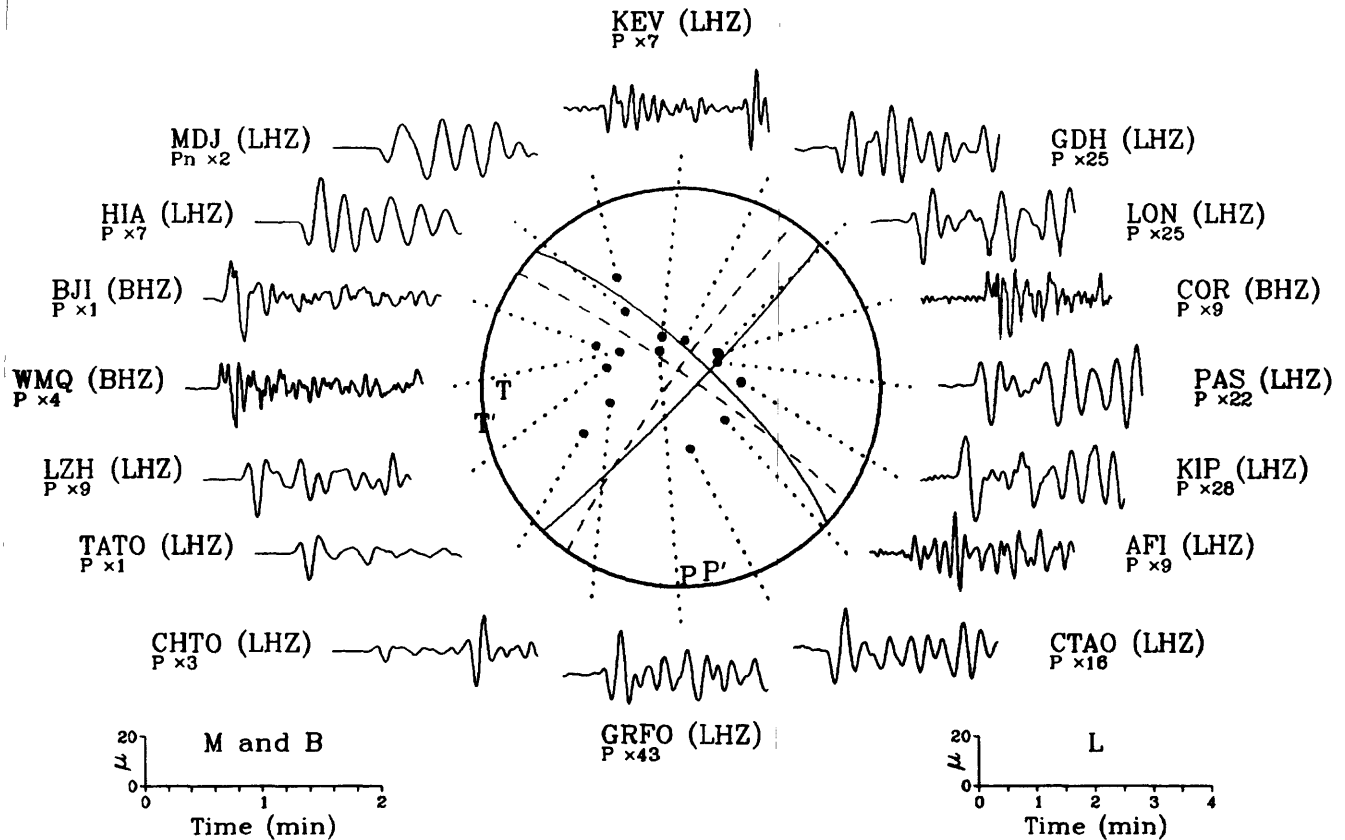
F-E GEOG.
REG. NO.

OLD NAME OF REGION

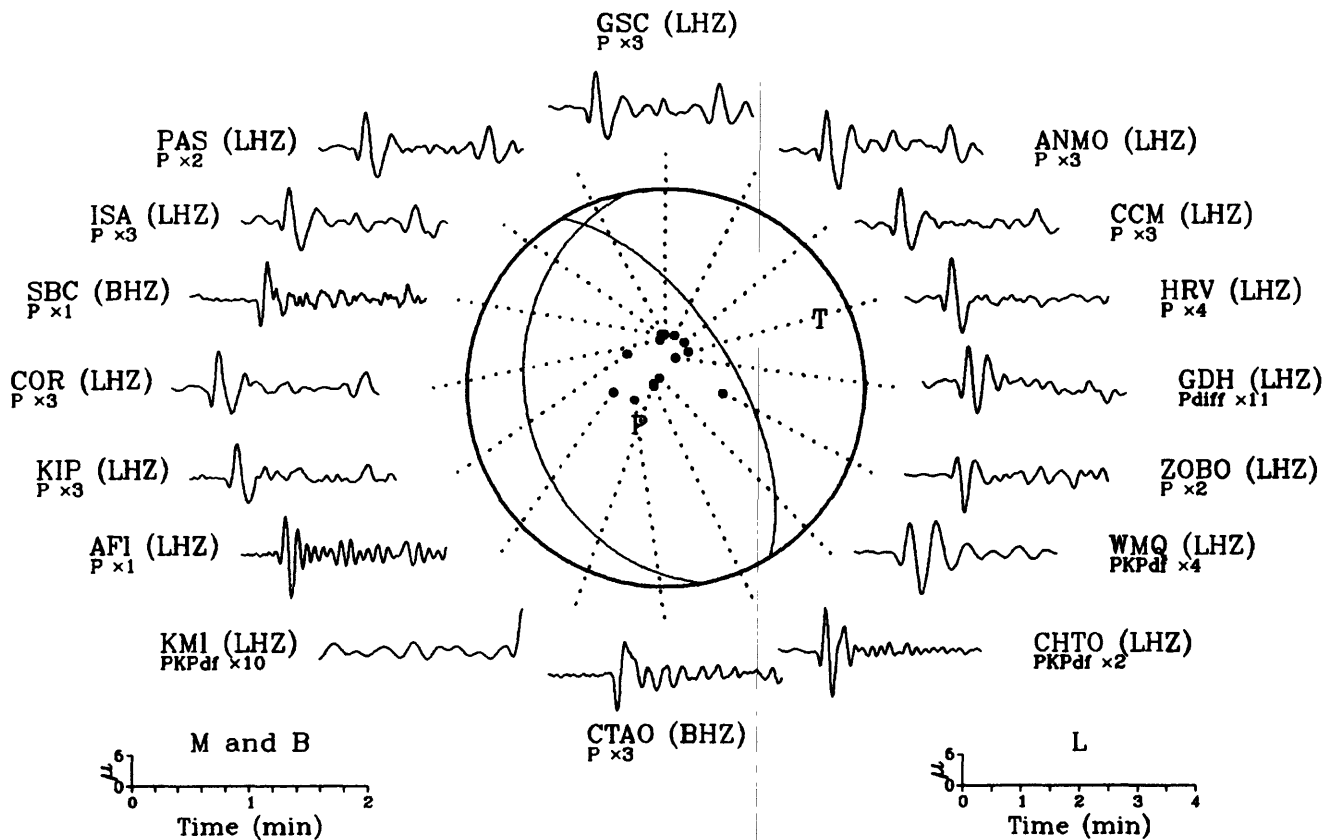
NEW NAME OF REGION

451	NEW BRUNSWICK	NEW BRUNSWICK, CANADA
452	NOVA SCOTIA	NOVA SCOTIA, CANADA
455	NEWFOUNDLAND	NEWFOUNDLAND, CANADA
459	YELLOWSTONE NATIONAL PARK, WYO.	YELLOWSTONE REGION, WYOMING
470	SOUTHERN ONTARIO	SOUTHERN ONTARIO, CANADA
474	NORTHERN NEW ENGLAND	VERMONT-NEW HAMPSHIRE REGION
498	WEST TEXAS	WESTERN TEXAS
509	GEORGIA	GEORGIA, USA
516	E. ARIZ. - MEXICO BORDER REGION	E. ARIZONA-SONORA BORDER REGION
517	MEXICO-NEW MEXICO BORDER REGION	NEW MEXICO-CHIHUAHUA BORDER REG.
520	TEXAS GULF COAST	NEAR COAST OF TEXAS
525	VERA CRUZ, MEXICO	VERACRUZ, MEXICO
527	GULF OF CAMPECHE	BAY OF CAMPECHE
540	NETHERLANDS	THE NETHERLANDS
553	ARAB REPUBLIC OF EGYPT	EGYPT
556	CENTRAL AFRICA	CHAD REGION
566	CONGO REPUBLIC	CONGO
567	ZAIRE REPUBLIC	ZAIRE
579	BOTSWANA REPUBLIC	BOTSWANA
583	MALAGASAY REPUBLIC	MADAGASCAR
597	NEW CALEDONIA REGION	SOUTHWEST OF NEW CALEDONIA
609	TASMANIA REGION	TASMANIA REGION, AUSTRALIA
614	CAROLINE ISLANDS REGION	E. CAROLINE ISLANDS, MICRONESIA
616	ENIWETOK ATOLL REGION	ENEWETAK ATOLL REG, MARSHALL IS.
617	BIKINI ATOLL REGION	BIKINI ATOLL REG., MARSHALL IS.
618	GILBERT ISLANDS REGION	GILBERT ISLANDS REGION, KIRIBATI
619	JOHNSON ISLAND REGION	JOHNSTON ISLAND REGION
620	LINE ISLANDS REGION	LINE ISLANDS REGION, KIRIBATI
621	PALMYRA ISLAND REGION	PALMYRA ISLAND REGION, KIRIBATI
622	CHRISTMAS ISLAND REGION	KIRITIMATI REGION, KIRIBATI
623	ELLICE ISLANDS REGION	TUVALU REGION
624	PHOENIX ISLANDS REGION	PHOENIX ISLANDS REGION, KIRIBATI
625	TEKELAU ISLANDS REGION	TOKELAU ISLANDS REGION
648	NOVAYA ZEMLYA	NOVAYA ZEMLYA, RUSSIA
650	NEAR COAST OF WESTERN SIBERIA	NEAR COAST OF W. SIBERIA, RUSSIA
652	SEVERNAYA ZEMLYA	SEVERNAYA ZEMLYA, RUSSIA
653	NEAR COAST OF CENTRAL SIBERIA	NEAR COAST OF C. SIBERIA, RUSSIA
654	EAST OF SEVERNAYA ZEMLYA	EAST OF SEVERNAYA ZEMLYA, RUSSIA
656	EASTERN USSR	SOUTHEASTERN SIBERIA, RUSSIA
657	E. USSR-N.E. CHINA BORDER REG.	E. RUSSIA-N.E. CHINA BORDER REG.
661	NEAR E. COAST OF EASTERN RUSSIA	NEAR SOUTHEAST COAST OF RUSSIA
664	EASTERN CHINA	SOUTHEASTERN CHINA
668	NEW SIBERIAN ISLANDS	NEW SIBERIAN ISLANDS, RUSSIA
671	EASTERN SIBERIA	EASTERN SIBERIA, RUSSIA
676	ALASKA	NORTHERN ALASKA
678	QUEEN ELIZABETH ISLANDS	QUEEN ELIZABETH ISLANDS, CANADA
682	BAFFIN ISLAND REGION	BAFFIN ISLAND REGION, CANADA
684	EASTER ISLAND CORDILLERA	SOUTHERN EAST PACIFIC RISE
691	SOUTH PACIFIC CORDILLERA	PACIFIC-ANTARCTIC RIDGE
694	NORTHERN EASTER I. CORDILLERA	CENTRAL EAST PACIFIC RISE
703	ANDAMAN ISLANDS REGION	ANDAMAN ISLANDS, INDIA
704	NICOBAR ISLANDS REGION	NICOBAR ISLANDS, INDIA
706	NORTHERN SUMATERA	NORTHERN SUMATERA, INDONESIA
713	CENTRAL KAZAKH SSR	CENTRAL KAZAKHSTAN
714	SOUTHEASTERN UZBEK SSR	SOUTHEASTERN UZBEKISTAN
715	TADZHIK SSR	TAJIKISTAN
716	KIRGIZ SSR	KYRGYZSTAN
717	AFGHANISTAN-USSR BORDER REGION	AFGHANISTAN-TAJIKISTAN BORD REG.
718	HINDU KUSH REGION	HINDU KUSH REGION, AFGHANISTAN
719	TADZHIK-SINKIANG BORDER REGION	TAJIKISTAN-XINJIANG BORDER REG.
722	NORWAY-USSR BORDER REGION	NORWAY-RUSSIA BORDER REGION
723	FINLAND-USSR BORDER REGION	FINLAND-RUSSIA BORDER REGION
724	EUROPEAN USSR	BALTICS-BYELARUS-NW RUSSIA REG.
725	WESTERN SIBERIA	NORTHWESTERN SIBERIA, RUSSIA
726	CENTRAL SIBERIA	NORTHCENTRAL SIBERIA, RUSSIA

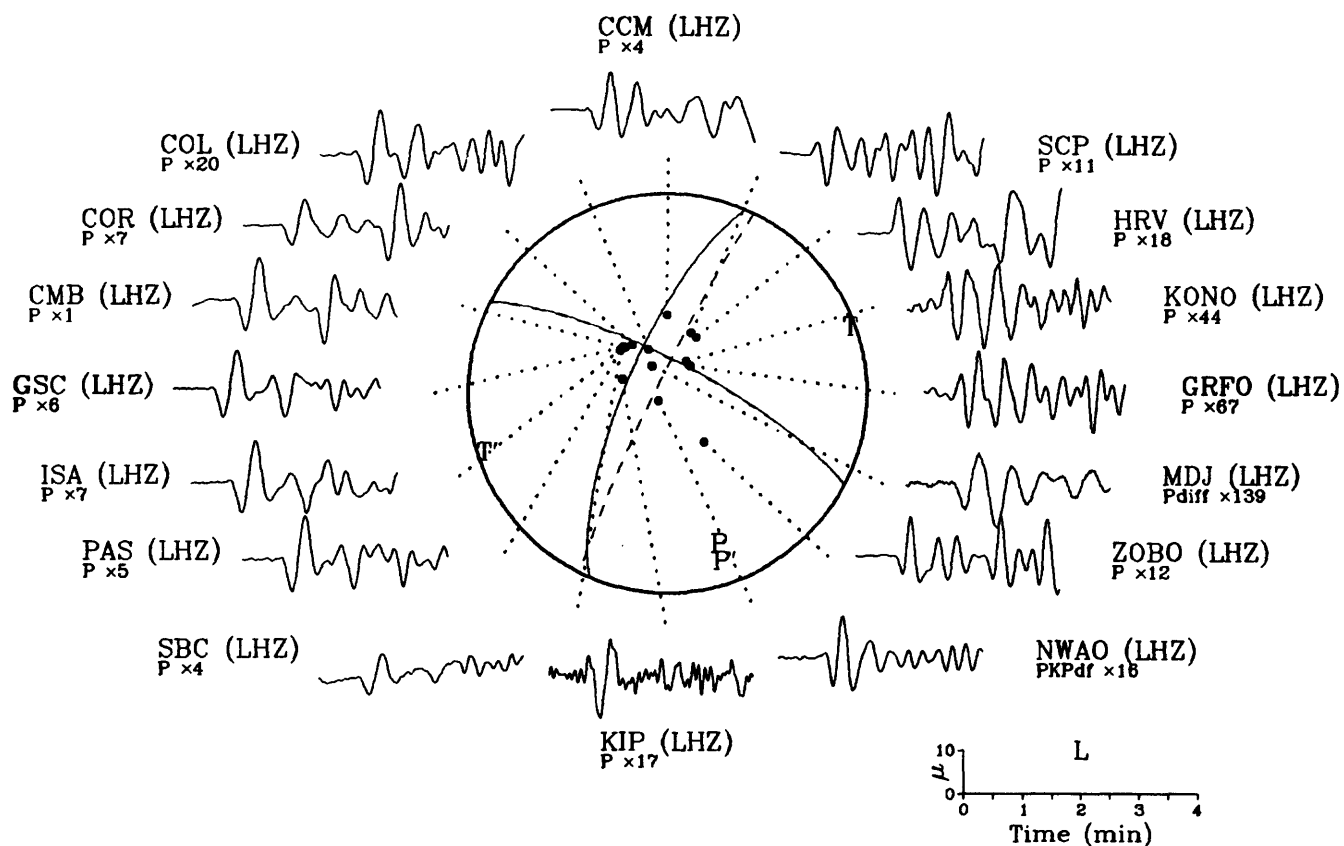
03 September 1991 08:44:48.60
South of Honshu, Japan



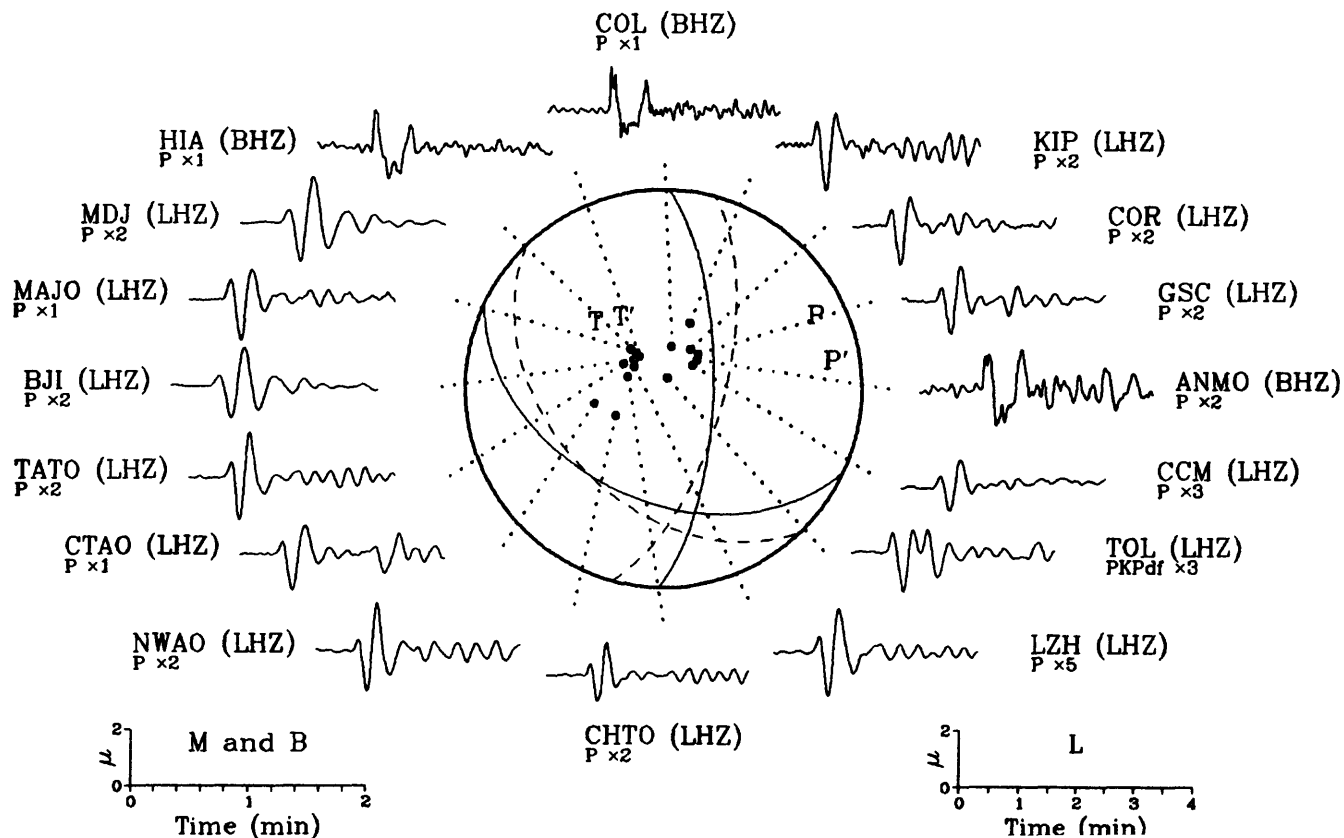
03 September 1991 11:56:16.27
Southern East Pacific Rise



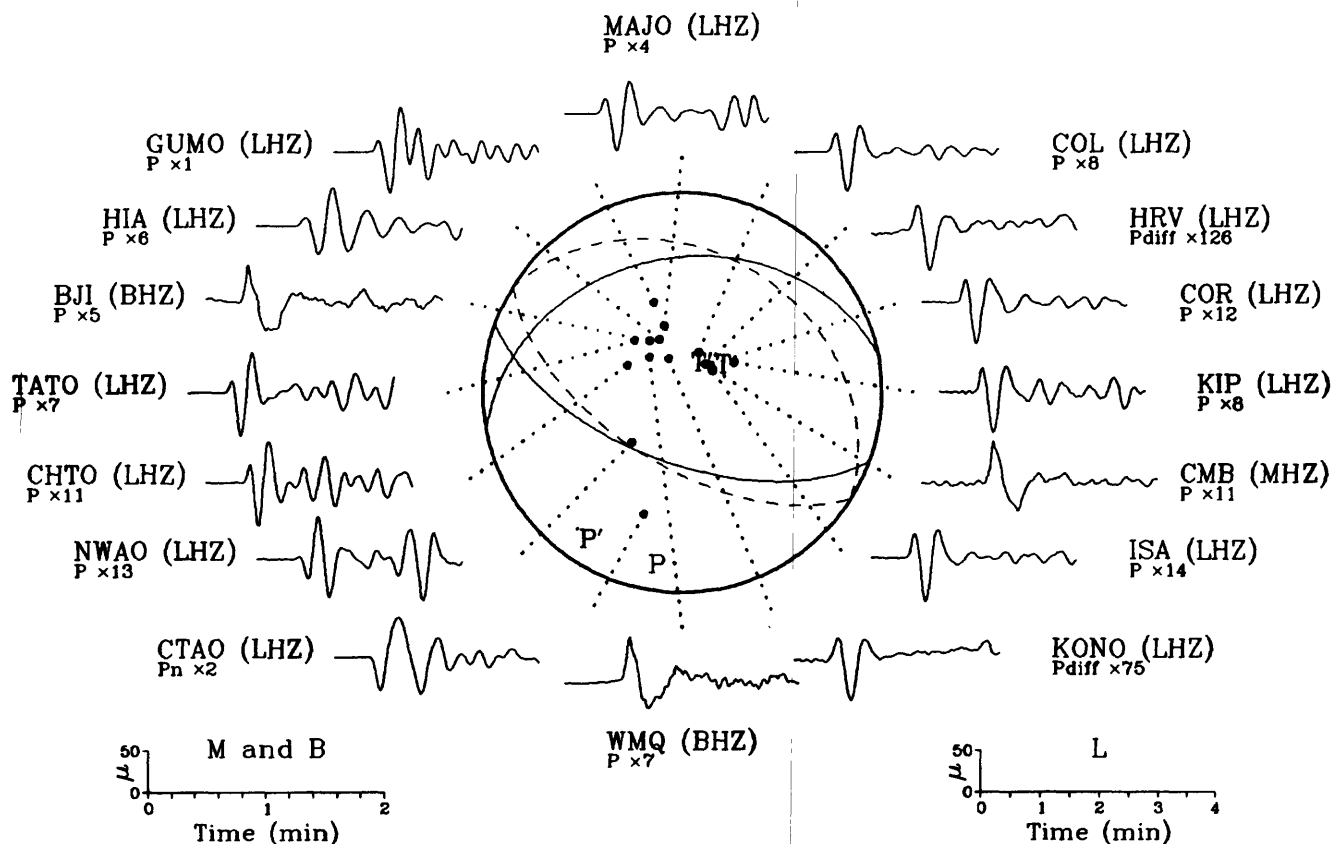
18 September 1991 09:48:13.11
Guatemala



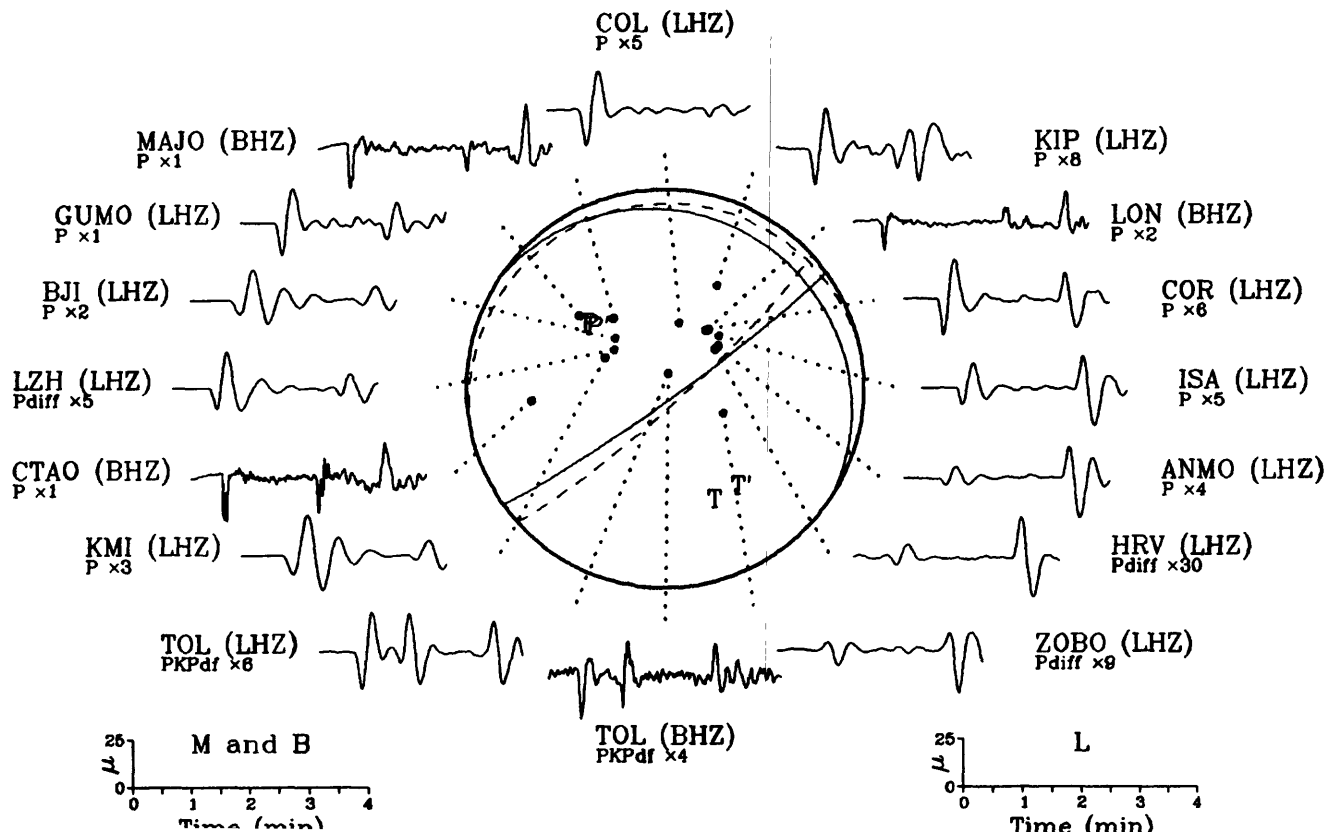
21 September 1991 15:19:48.18
Tonga Islands



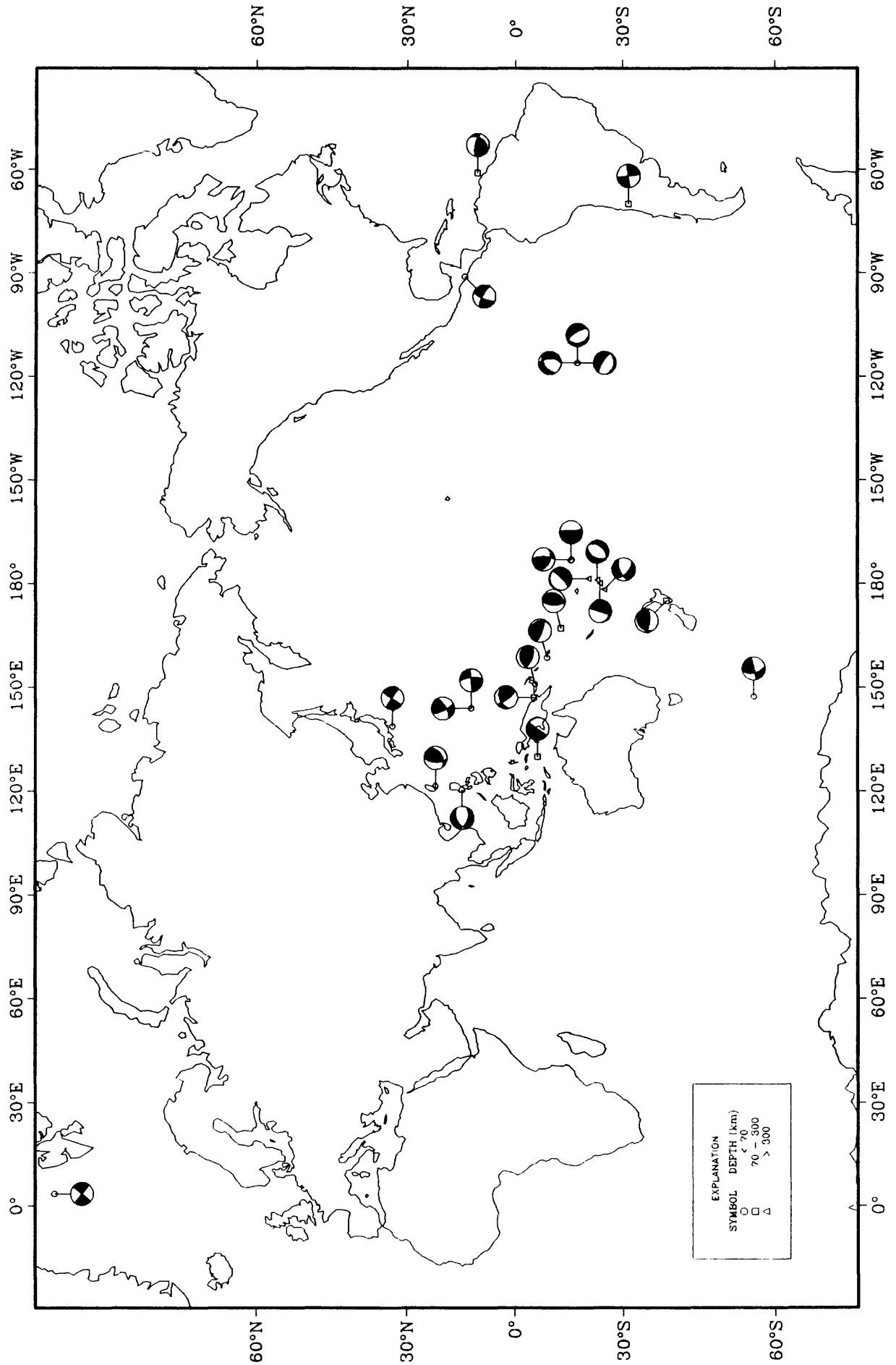
28 September 1991 20:26:56.15
New Britain Region, P.N.G.

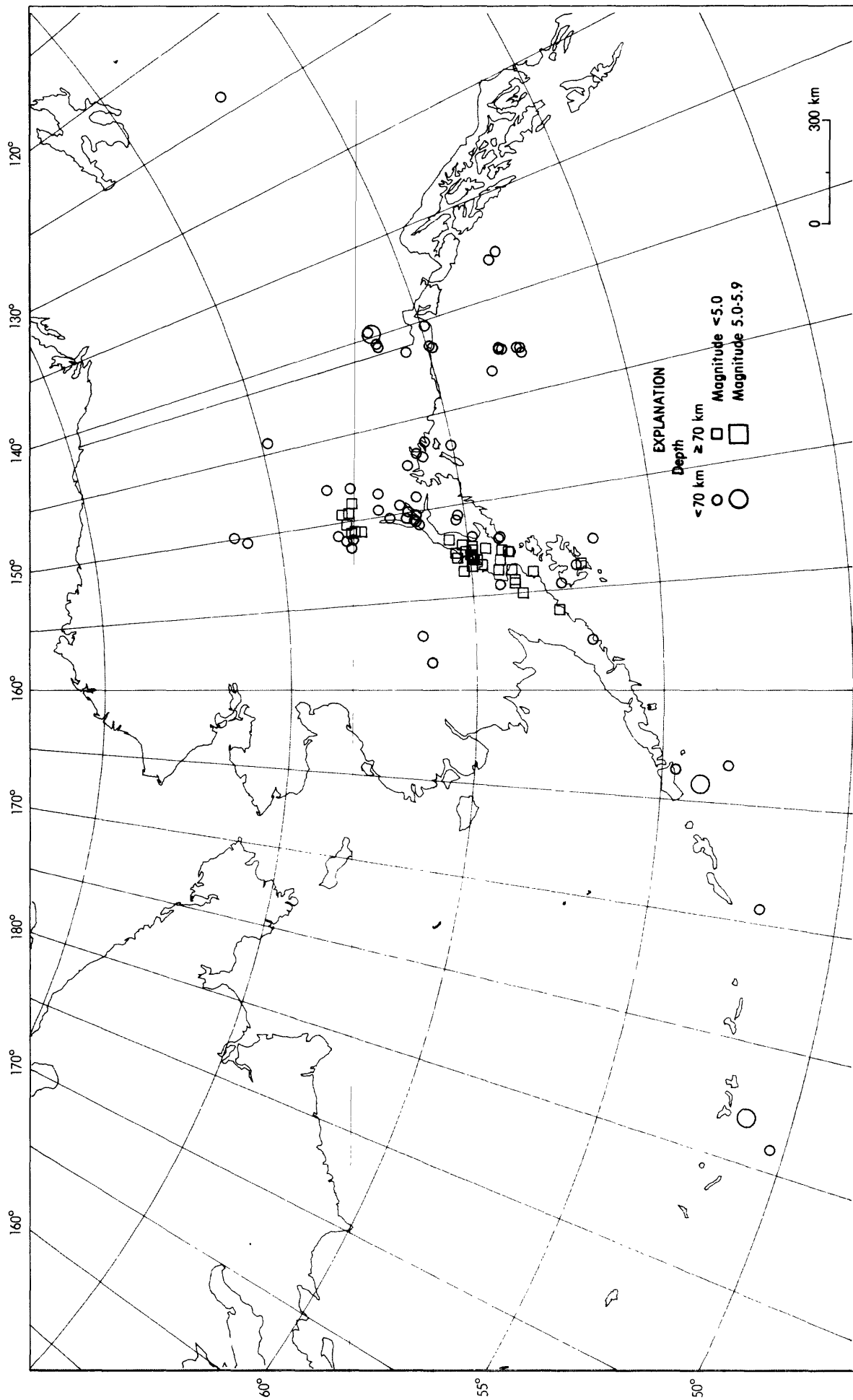


30 September 1991 00:21:46.41
Fiji Islands Region

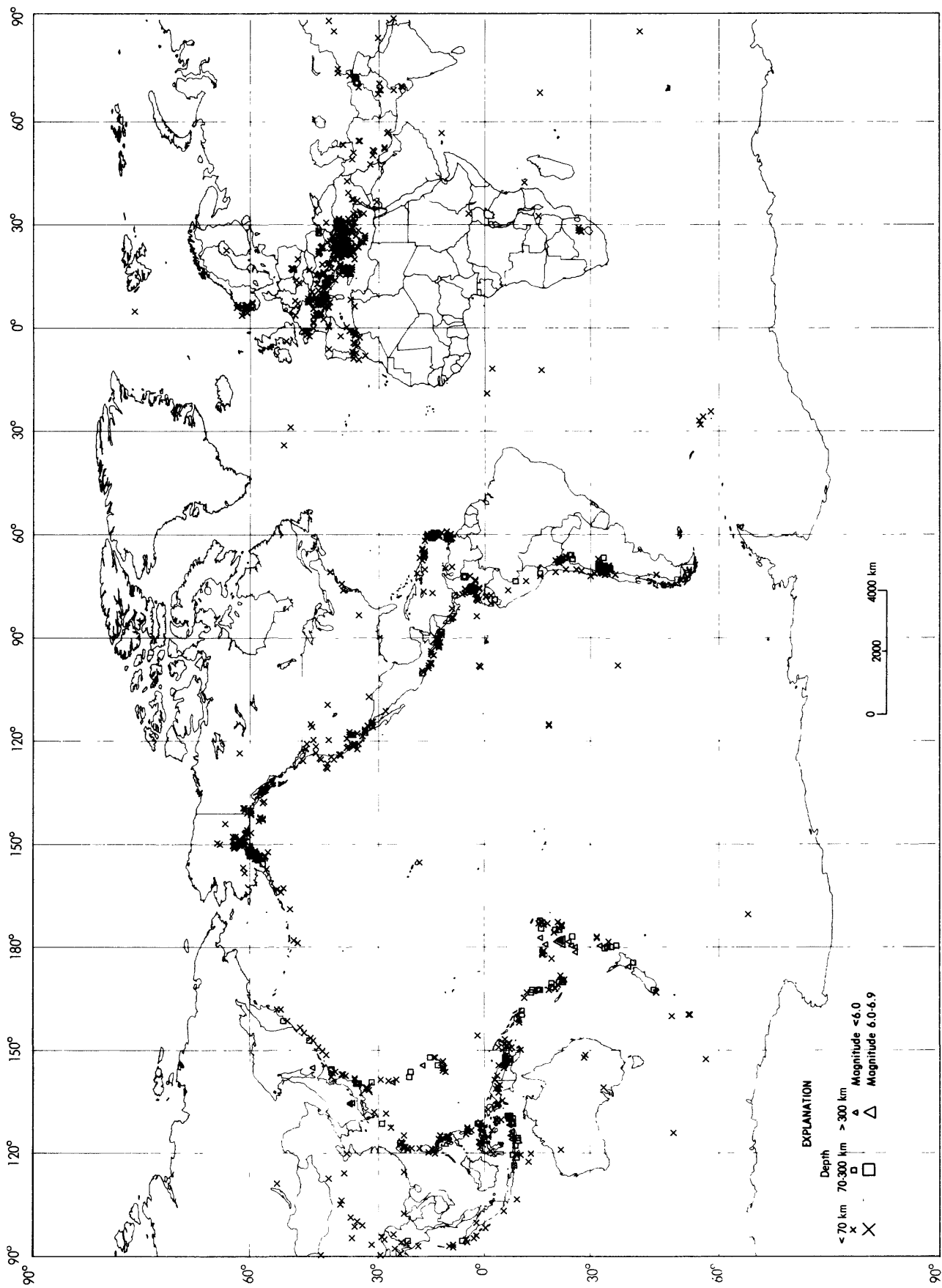


Earthquake Focal Mechanisms for September 1991

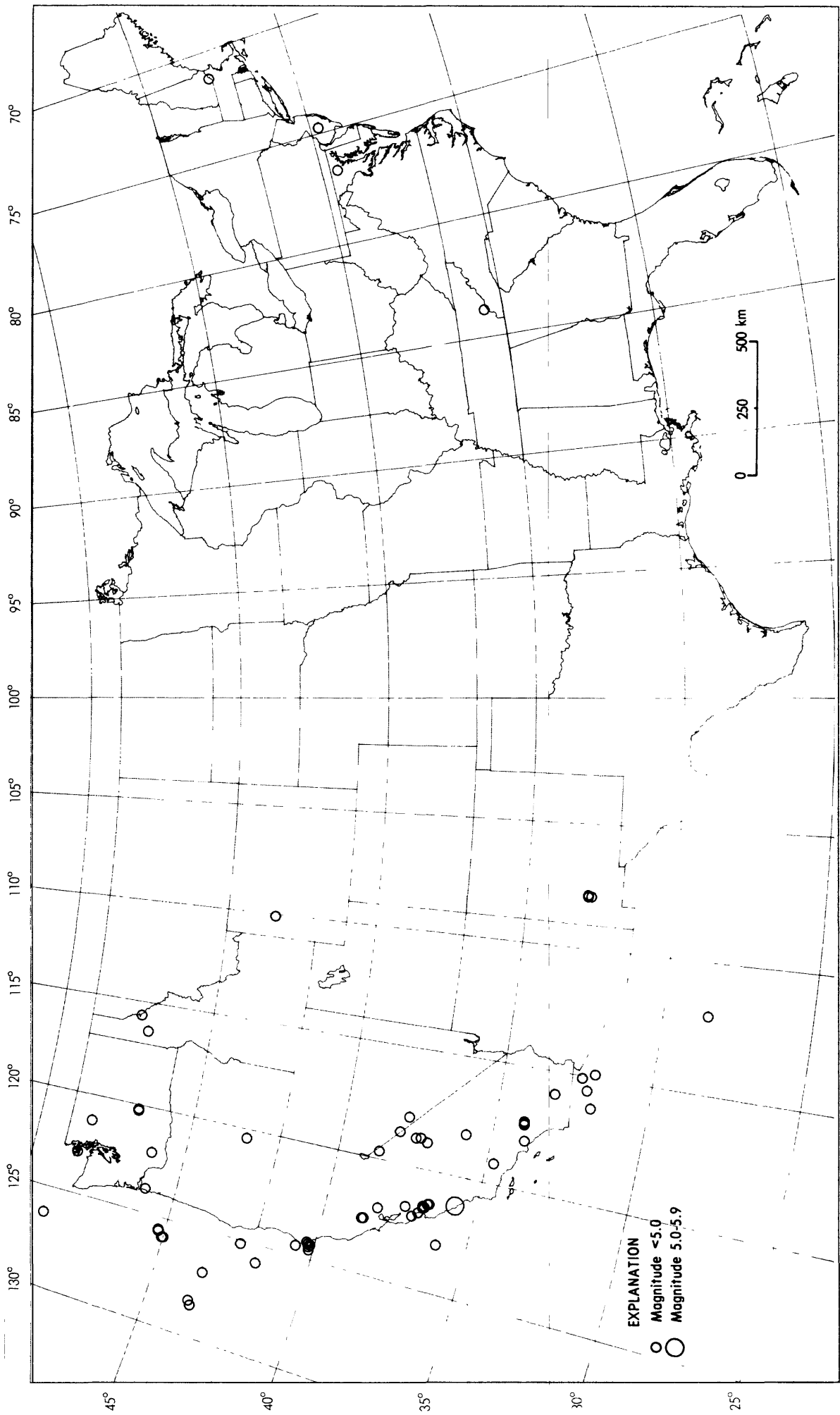




Earthquake epicenters in Alaska and adjacent regions for September, 1991 (C. Stover).



Earthquakes located in September, 1991 (C. Stover).



Earthquake epicenters in the conterminous United States and adjacent regions for September, 1991 (C. Stover).